Nota : Este manual de service se utiliza para los modelos MNX220 y MNX225 , salvo la estética. Consultar la información técnica que se refiera solamente al chassis NC-8016DE

Service Manual

Mini Component Sound System

Model : NC-8011/NC-8015/NC-8016DE

S/N : 9CD8308200



Mini component sound system

NC-8011/NC-8015/NC-8016DE

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- SMPS Section (Only NC-8015/8016DE Model)

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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.

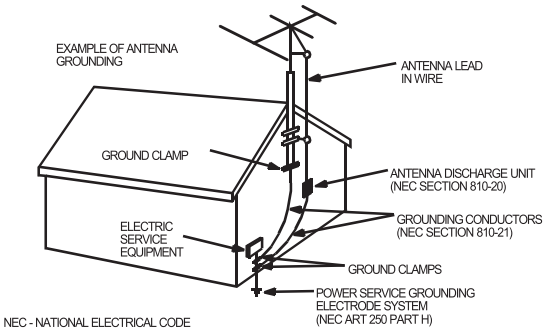
PORTABLE CART



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

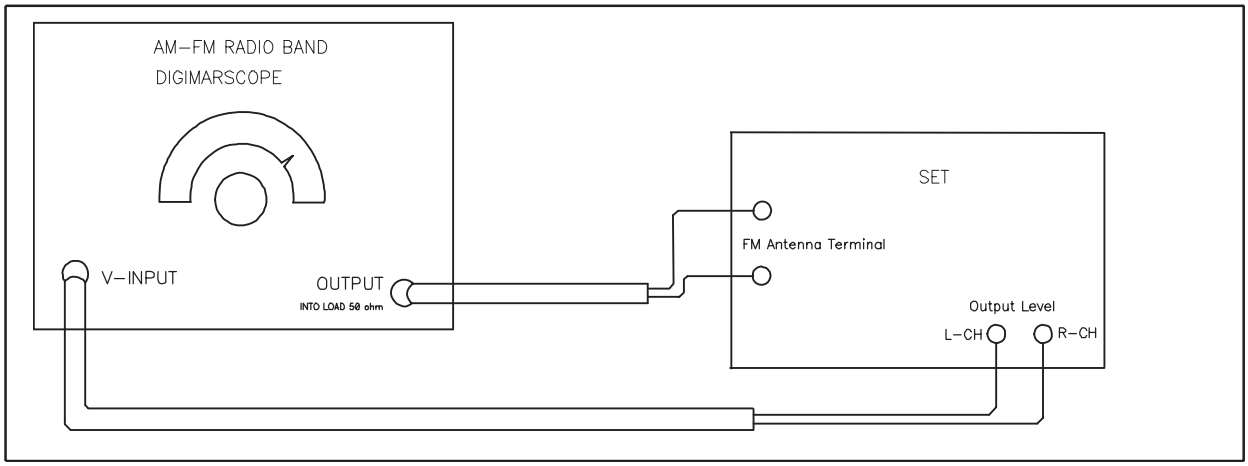
e) The appliance has been dropped, or the enclosure damaged.

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.

2

●TUNER Section

FM TEST EQUIPMENT



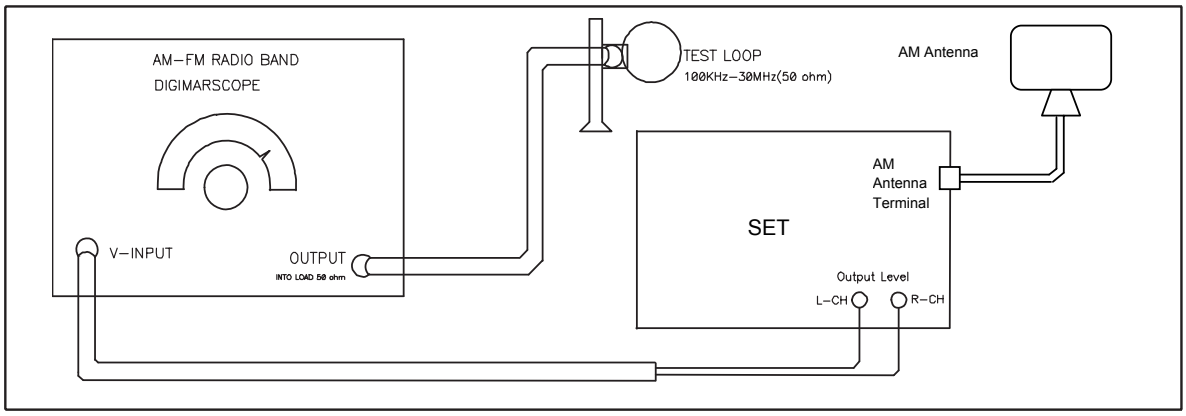
1.Adjust L003 to obtain 87MHz±0.5
2.Adjust PVC1(FM OSC)to obtain 108.5MHz±0.5
3.Adjust L002 to obtain maximal waveform for 90MHz
4.Adjust PVC2(FM ANT)to obtain maximal waveform for 106MHz

Item	Input Circuit Setup	Output Circuit Setup	S.S.G setting	Adjust point	Adjustment
FM Frequency Range Adjustment	Connect output signal generator to FM ANT terminal of D001(-) pin	Connect V-Input signal generator to CE002(-)/ CE003(-) pin	87MHz Dev.26dB	L003	Adjust for 87MHz±0.5
			108.5MHz Dev.26dB	PVC1(FM OSC)	Adjust for 108.5MHz±0.5
FM RF	Connect output signal generator to FM ANT terminal of D001(-) pin	Connect V-Input signal generator to CE002(-)/ CE003(-) pin	90MHz Dev.26dB	L002	Adjust maximal waveform for 90MHz
			106MHz Dev.26dB	PVC2(FM ANT)	Adjust maximal waveform for 106MHz

2

●TUNER Section

AM TEST EQUIPMENT



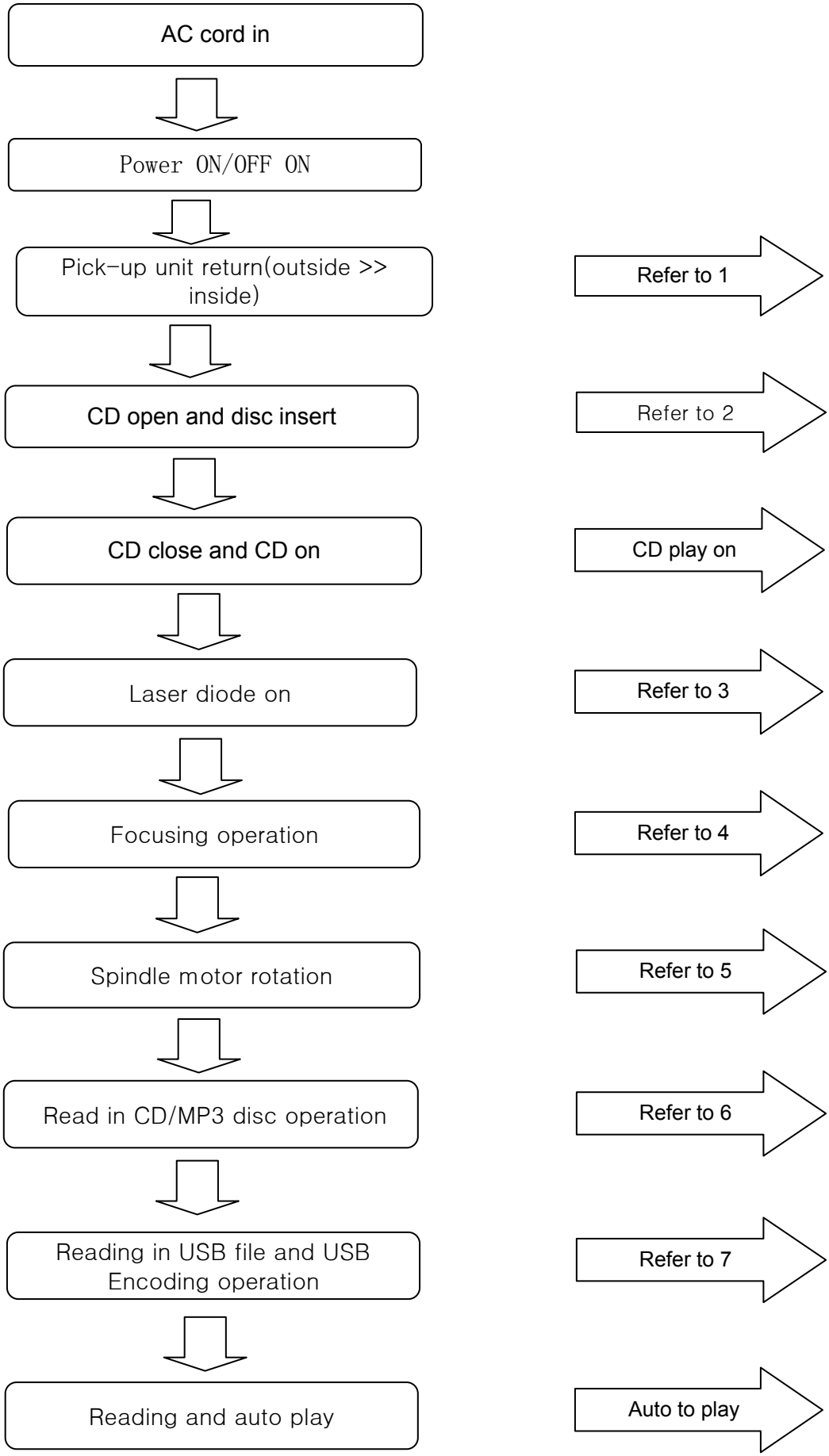
1.Adjust L009 to obtain 510KHz±10(America)/513KHz±9(Europe)
2.Adjust PVC3(AM OSC)to obtain 1730KHz±20(America)/1638KHz±18(Europe).
3.Adjust L011 to obtain maximal waveform for 600KHz
4.Adjust PVC4(AM ANT)to obtain maximal waveform for 1400KHz

Item	Input Circuit Setup	Output Circuit Setup	S.S.G setting	Adjust point	Adjustment
AM Frequency Range Adjustment	Connect output signal generator to test loop	Connect V-Input signal generator to CE002(-)/ CE003(-) pin	510KHz(America) 513KHz(Europe) Dev.60dB	L009	Adjust for 510KHz±10(America) 513KHz±9(Europe)
			1730KHz(America) 1638KHz(Europe) Dev.60dB	PVC3(AM OSC)	Adjust for 1730KHz±20(America) 1638KHz±18(Europe)
AM RF	Connect output signal generator to test loop	Connect V-Input signal generator to CE002(-)/ CE003(-) pin	600KHz Dev.60dB	L011	Adjust maximal waveform for 600KHz
			1400KHz Dev.60dB	PVC4(AM ANT)	Adjust maximal waveform for 1400KHz

Trouble Shooting Guide

3

● MP3/CD Section



Trouble Shooting Guide

3

● MP3/CD Section

1. Pick-up unit return

AC cord in

Yes

Power ON/OFF ON

no

*Only NC-8011DE
1. Check F980, F981
2. Check PT903
3. Check RF982, RF983
4. Check CN902,CW902
5. Check CW401 of 4pin(main power on)
6. Check IC900 of 3pin:9V
7. Check Q902 collector:9V
8. Check IC704 of 2pin:3.3V
9. Check IC701 of 22pin:3.3V

*Only NC-8015/8016DE
1. Check F901
2. Check PT901
3. Check CN902 of 6pin:5V
4. Check CN902 of 7pin:(main power on)
5. Check IC911 of 3pin:9V.
6. Check IC704 of 2pin:3.3V
7. Check IC701 of 22pin:3.3V

Yes

Function to CD and Initializing

no

1. Check CN704
2. Check IC701 of 38pin and 39pin and 40pin 41pin and 44pin.
3. Check CN502,CW504.CN505
4. Check IC504 of 3pin:5.0V
5. Check Q501 collector:+3.3V
6. Check +3.3V (IC500 pin8/18/23/25/38/57/85 /113/116/122)
7. Check (IC502 SA5888 of 17pin and 18pin)SP+ 4.41V , SP- 3.41V
8. Check SPDO +1.90V (IC500 M5675 pin123)
9. Check (IC502 SA5888 of 12pin and 11pin) SL- 3.81V, SL+ 3.91V
10. Check CD Board(Around IC solder short,cold soldering)

Yes

CD open and disc insert

2. CD open and disc insert

CD open and disc insert

no

1. Check CN505 of 5pin.
2. Check IC502 SA5888 of 10pin

Yes

CD close and cd on

no

1. Check CN505 of 3pin.
2. Check IC502 SA5888 of 9pin

3. Laser diode on

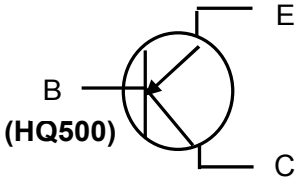
Laser diode on

no

1. Check +1.8V LD on(HQ500 collector)
2. Check +2.1V (HQ500 base pin) >>>in case of play

Yes

Focusing operation

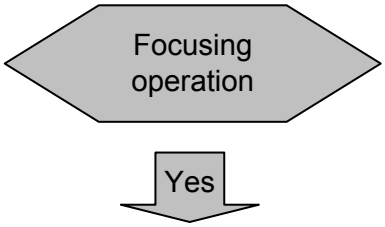


	STOP	PLAY
C	0V	1.8V
B	3.3V	2.1V
E	3.3V	2.8V

3

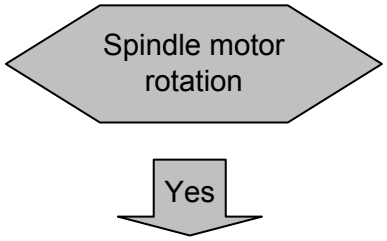
● MP3/CD Section

4. Focusing operation



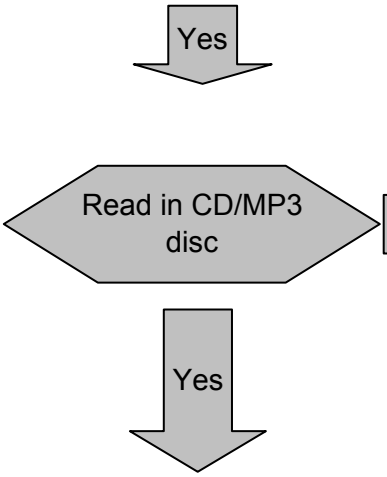
1. Check (IC502 SA5888 of 13pin and 14pin)
   13pin 3.95V >>3.99V, pin18 3.72V >> 3.75V >>>
   in case of play.
2. Check +1.58V(IC500 M5675 of 126pin).

5. Spindle motor rotation



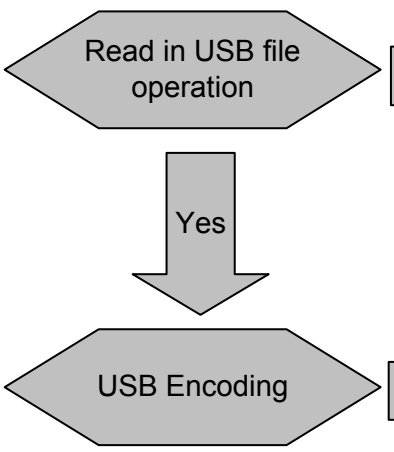
1. Check SPDO +1.90V(IC500 M5675 of 123Pin)
   in case of play。
2. Check (IC502 SA5888 of 12pin and 11pin) SL- 3.81V,
   SL+ 3.91V.
3. Check (IC502 SA5888 of 17pin and 18pin)SP+ 4.41V ,
   SP- 3.41V

6. Read in CD/MP3 disc operation



1. Check CN704
2. Check IC701 of 38pin and 39pin and 40pin
   41pin and 44pin.
3. Check CN502,CW504.CN505
4. Check IC504 of 3pin:5.0V
5. Check Q501 collector:+3.3V
6. Check +3.3V (IC500 pin8/18/23/25/38/57/85/113/116/122)
7. Check (IC502 SA5888 of 17pin and 18pin)SP+ 4.41V ,
   SP- 3.41V
8. Check SPDO +1.90V (IC500 M5675 pin123)
9. Check (IC502 SA5888 of 12pin and 11pin) SL- 3.81V,
   SL+ 3.91V
10. Check CD Board(Around IC solder short,cold soldering)

7. Read in USB file and USB Encoding operation

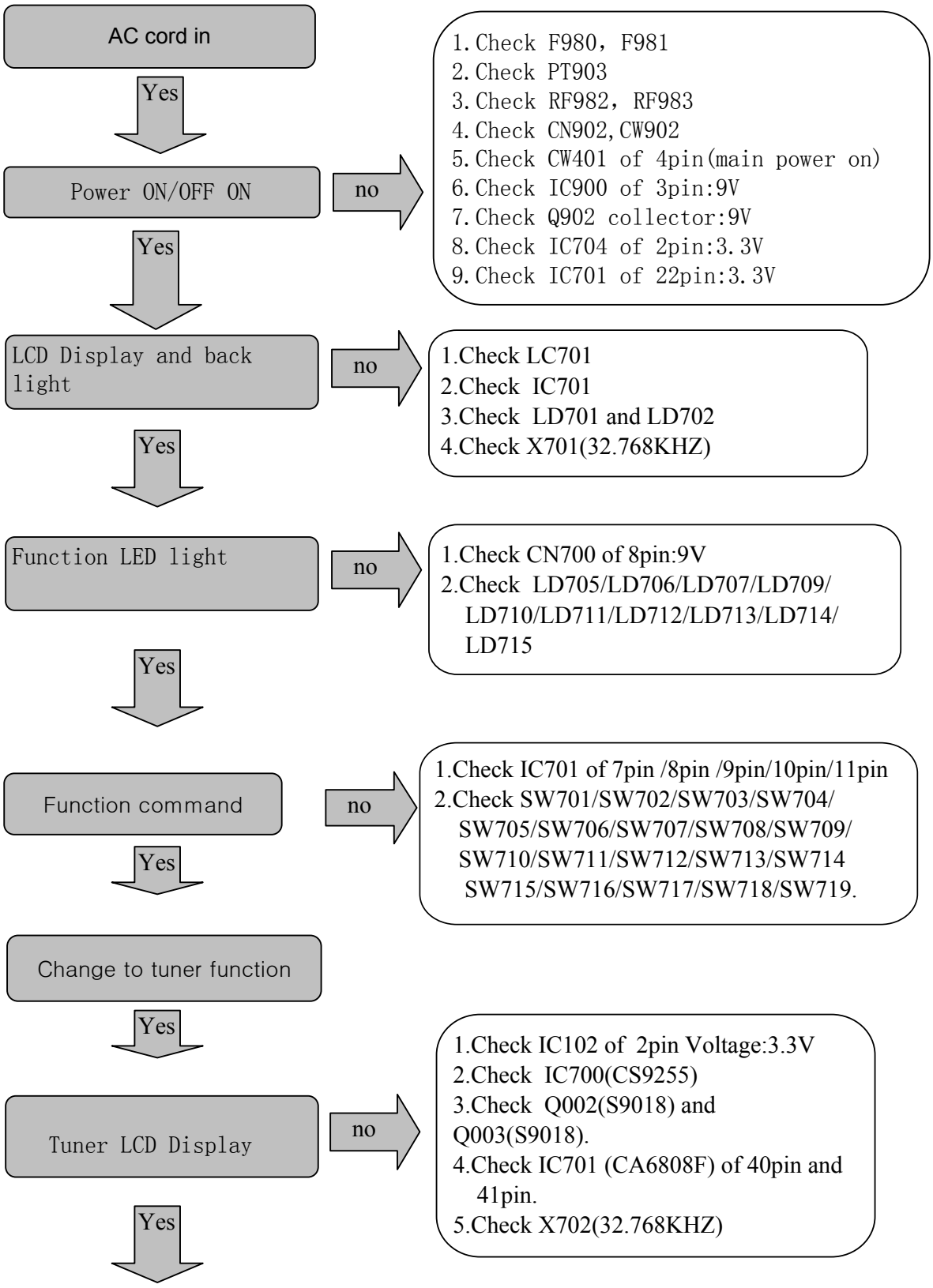


1. Check IC500(M5675) of 52pin and 53pin.
2. Check CW507,CN707.
3. Check J702.

1. Check IC500 (M5675) of 52pin and 53pin.
2. Check CN502 7pin 8pin and 9pin.
3. Check IC500(M5675) 40pin,43pin input signal.
4. Check IC500(M5675) 33pin,36pin output signal.

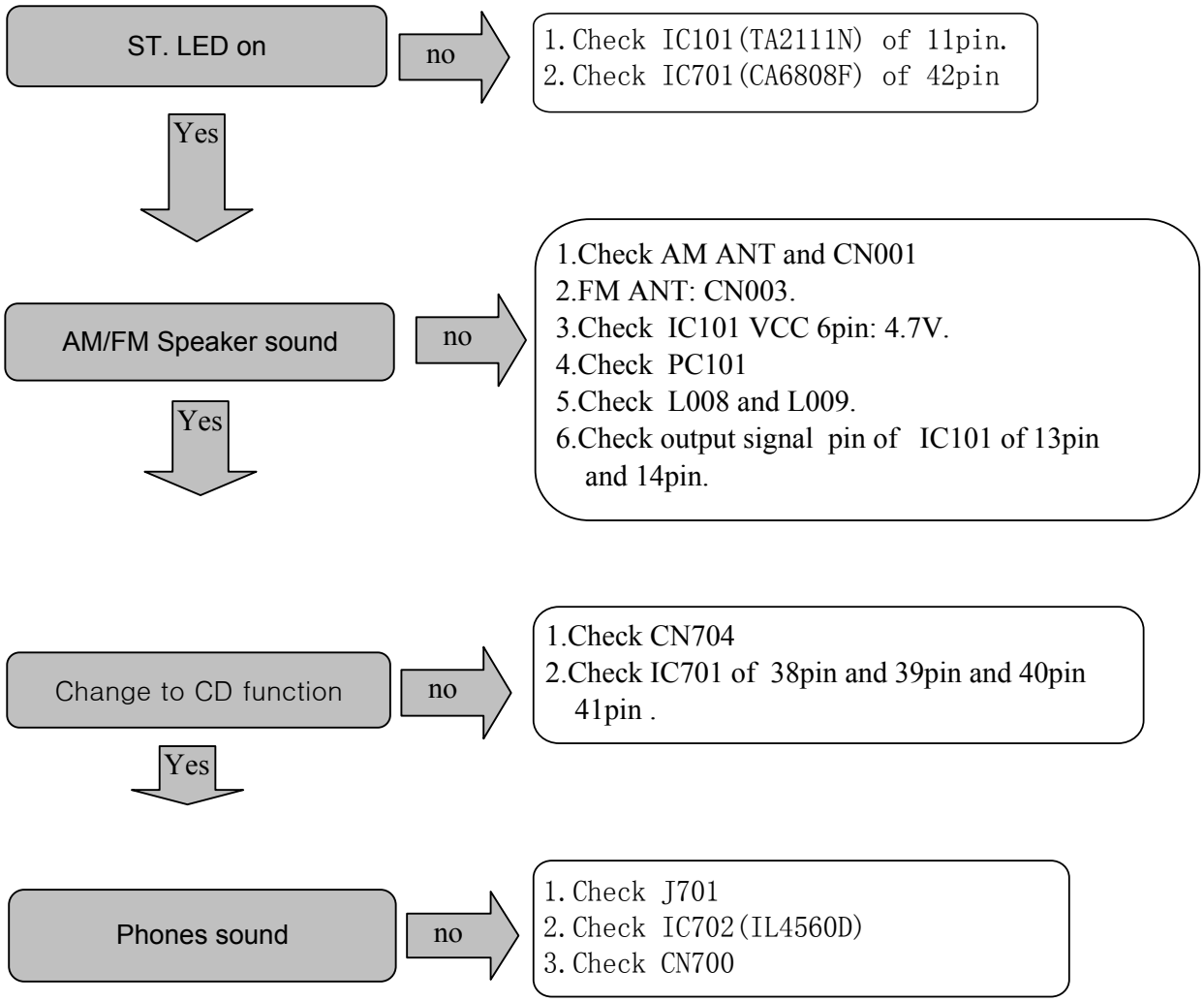
Trouble Shooting Guide

● Front &Tuner Section(only NC-8011DE Model)



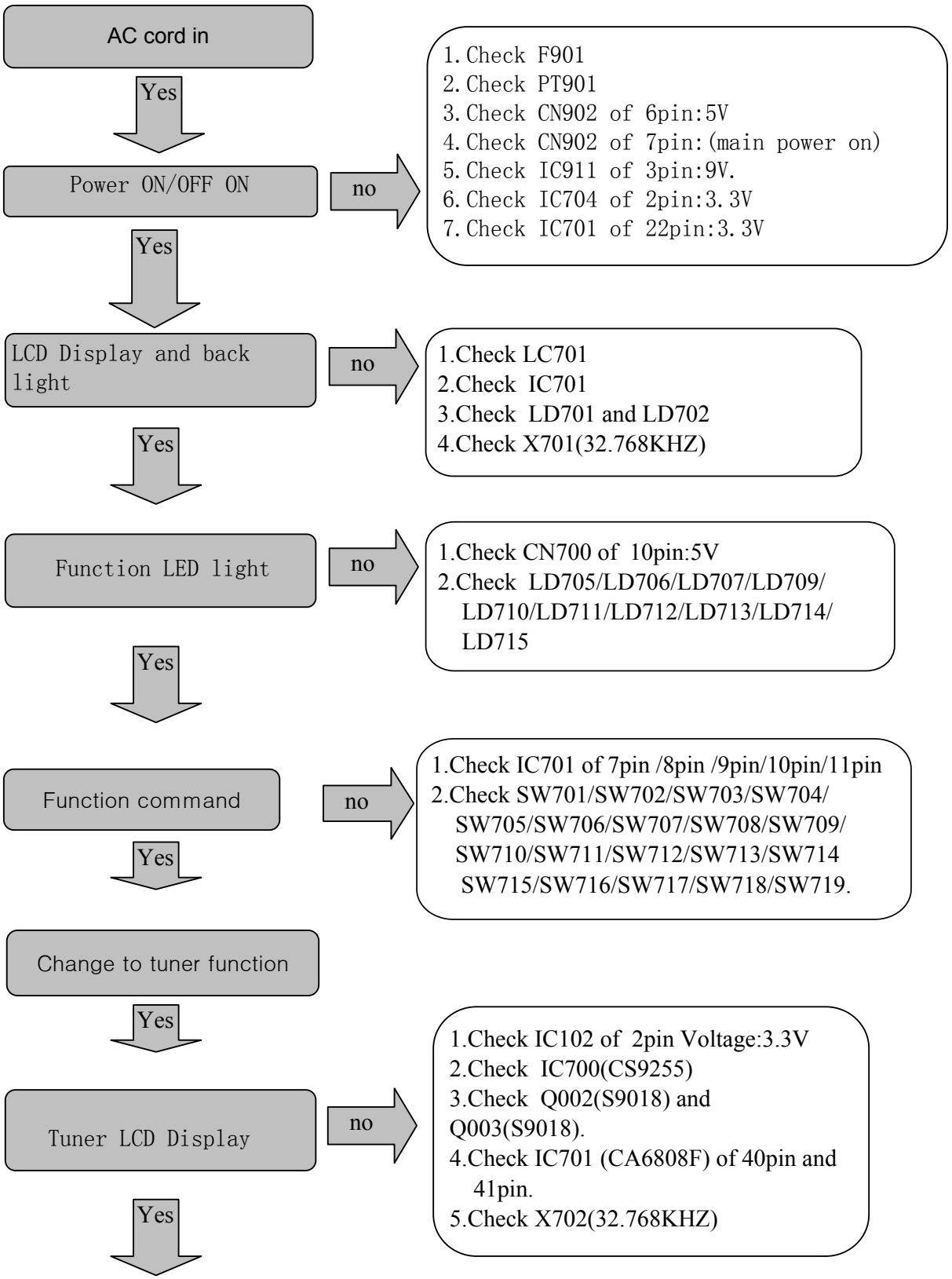
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- **Front &Tuner Section(only NC-8011DE Model)**



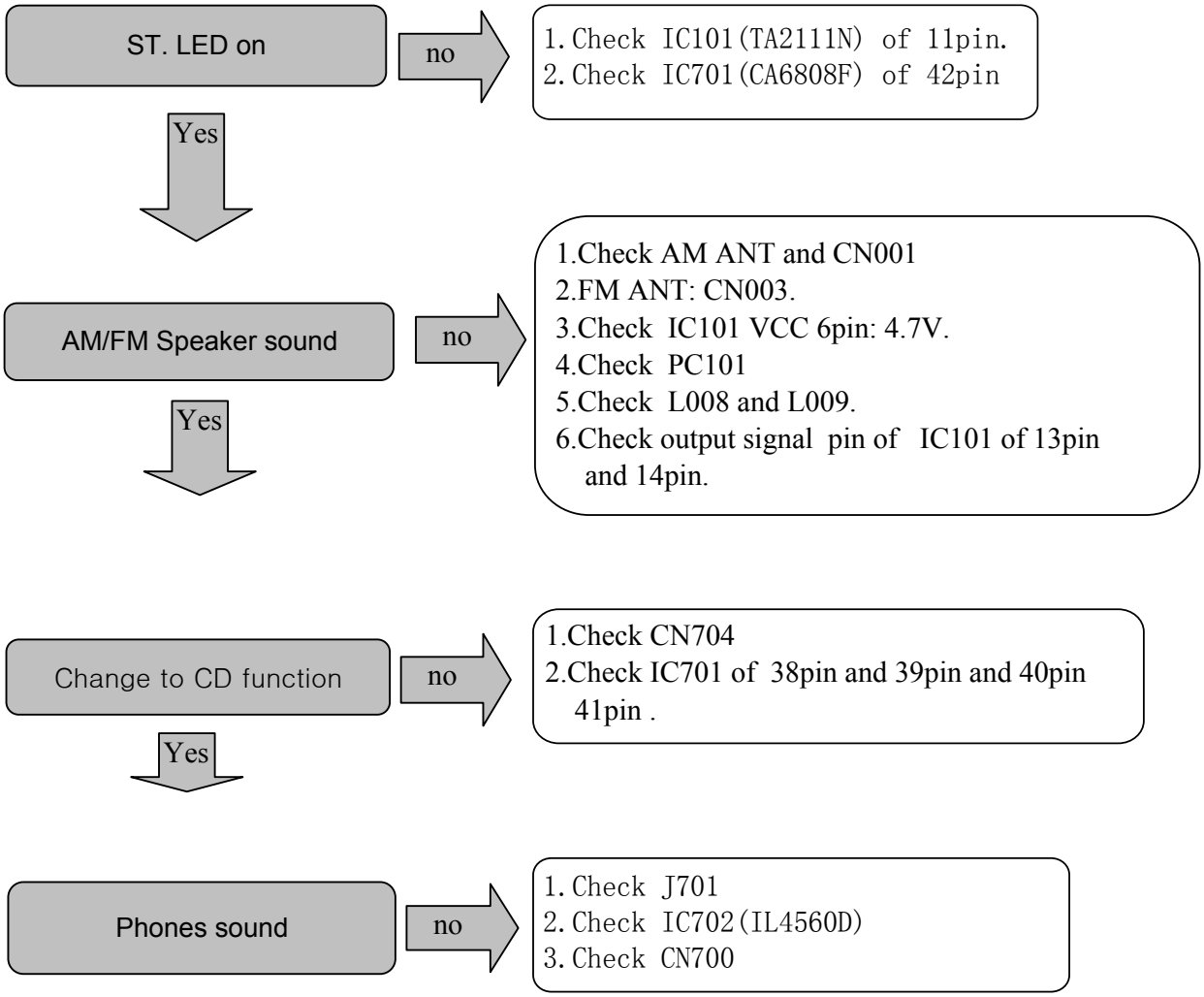
Trouble Shooting Guide

● Front &Tuner Section(only NC-8015/8016DE Model)



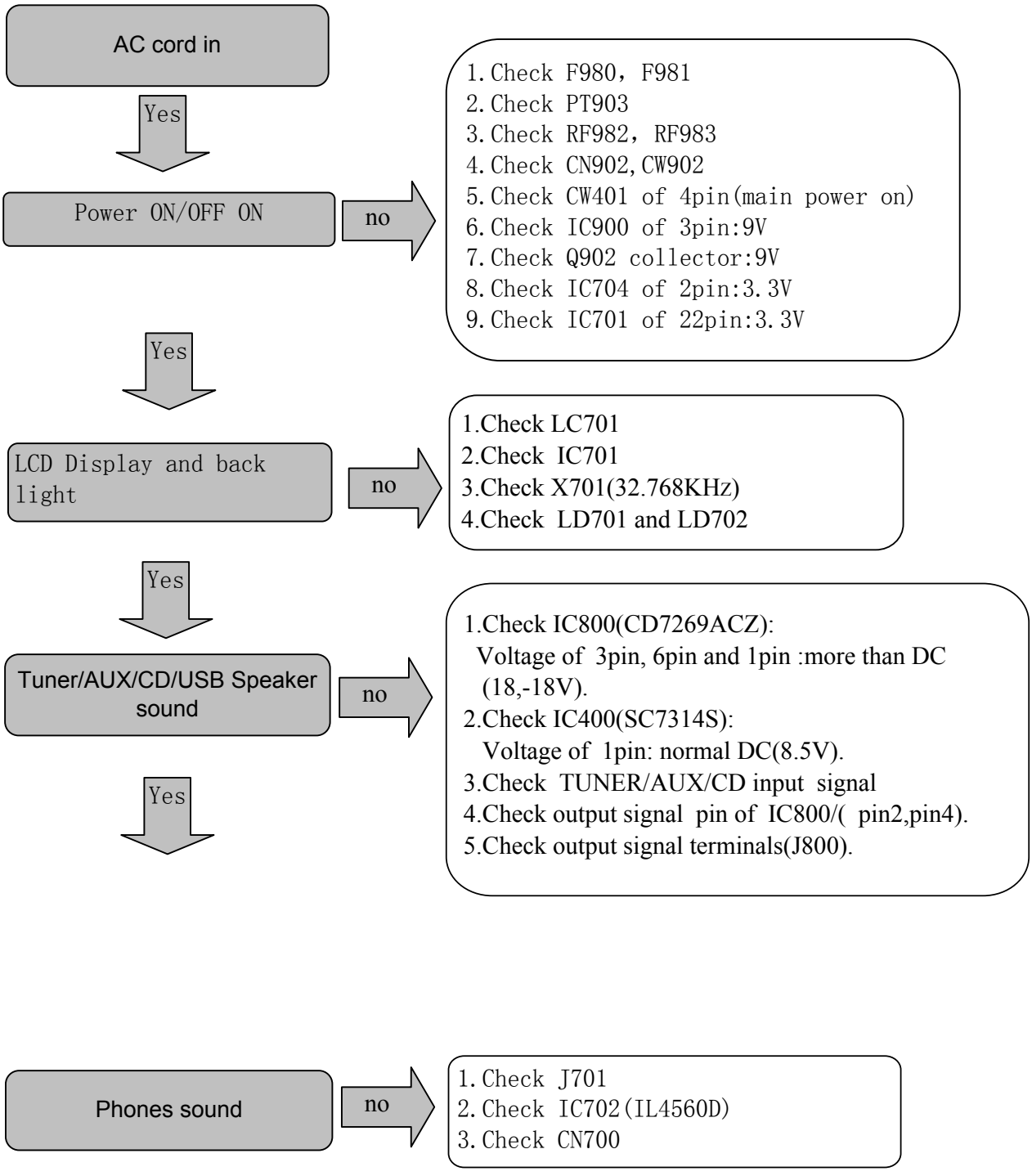
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- **Front &Tuner Section(only NC-8015/8016DE Model)**



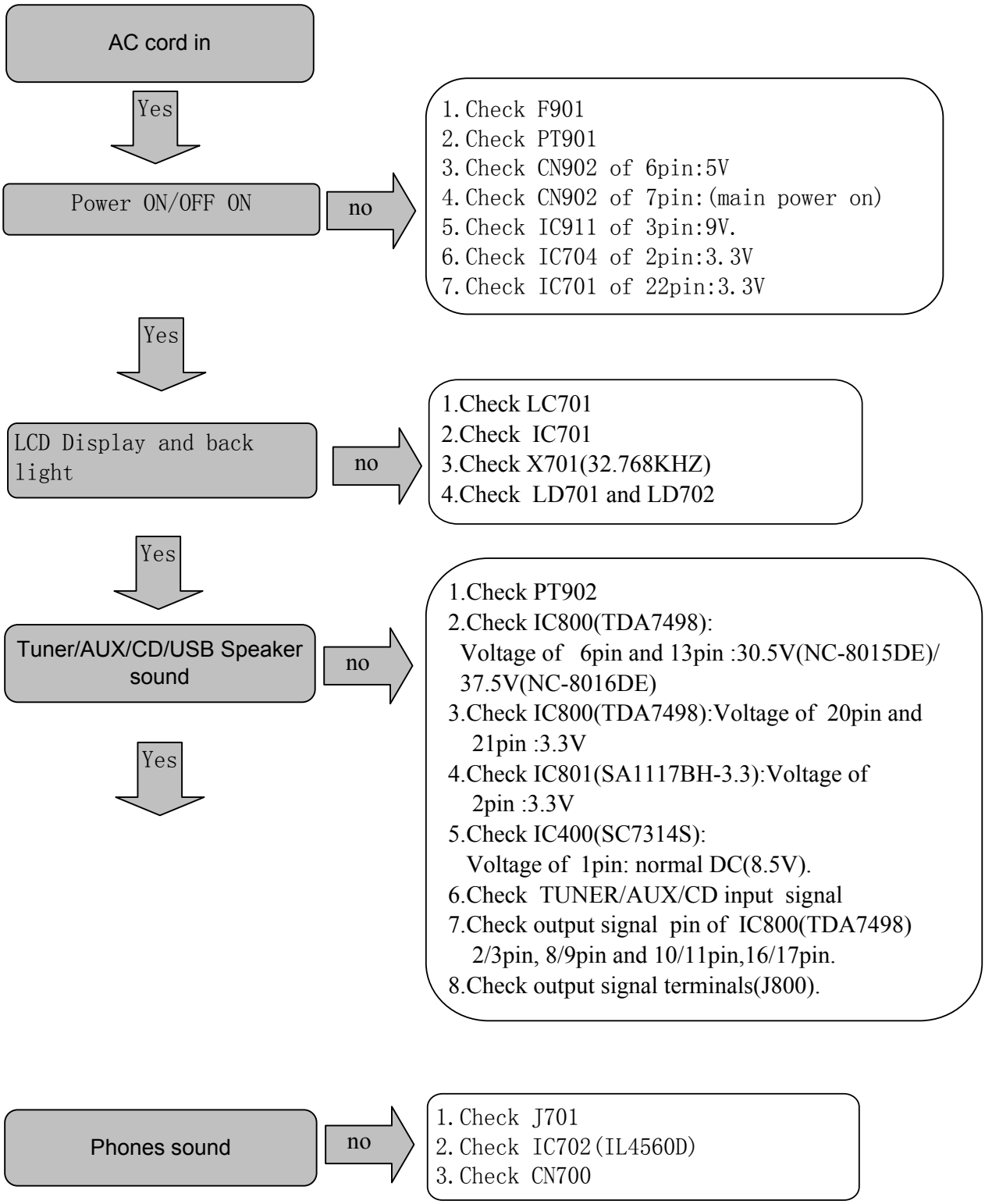
Trouble Shooting Guide

● POWER&AMP Section (only NC-8011DE Model)



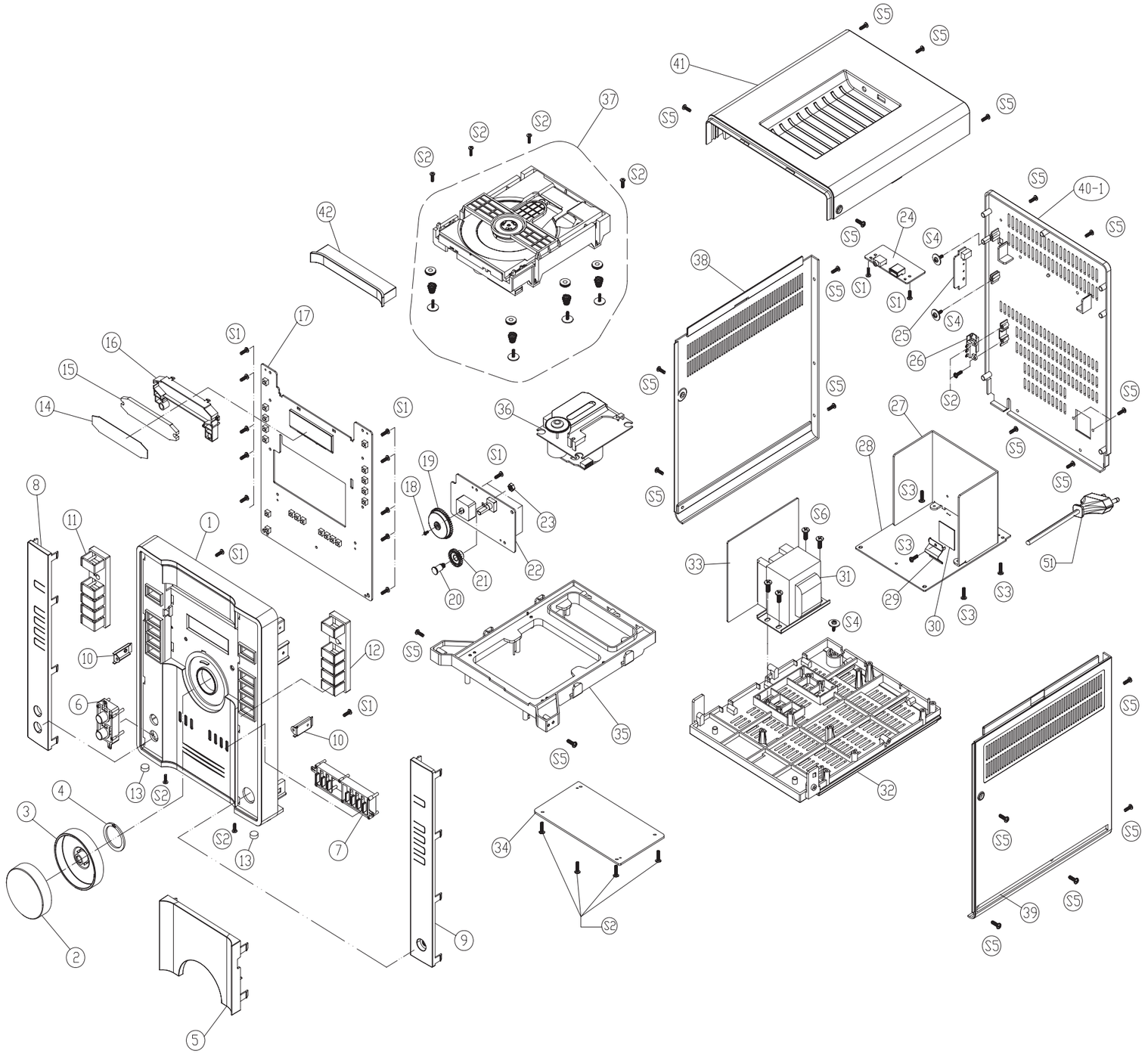
Trouble Shooting Guide

● SMPS&AMP Section (only NC-8015/8016DE Model)

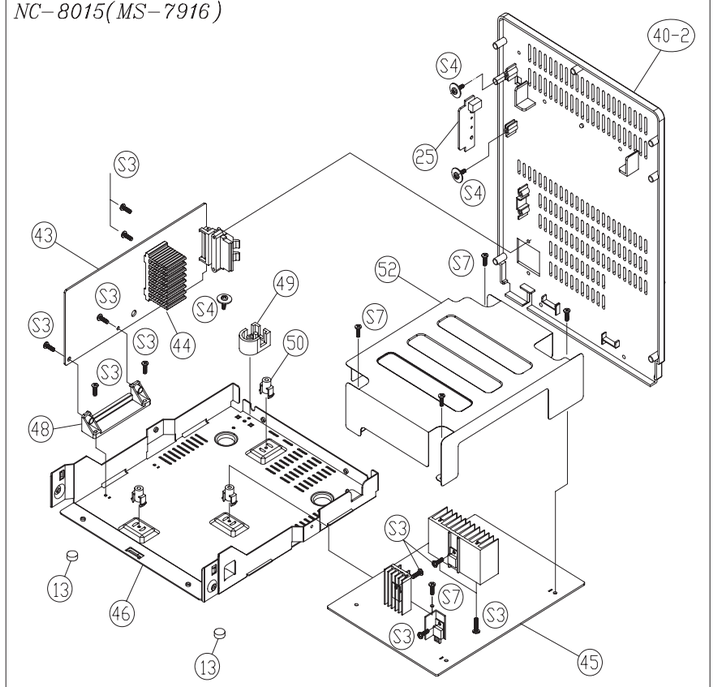


Exploded View and Mechanical Parts List

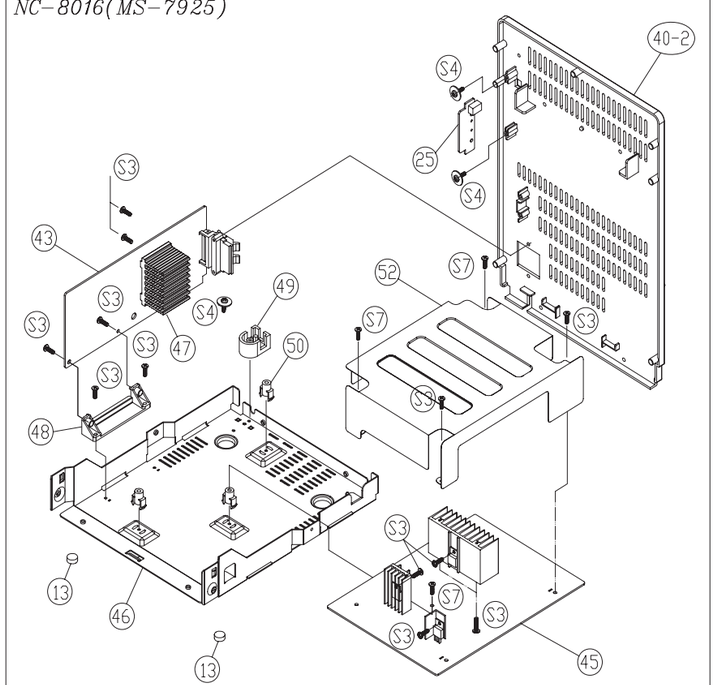
4



NC-8015(MS-7916)



NC-8016(MS-7925)



Exploded View and Mechanical Parts List

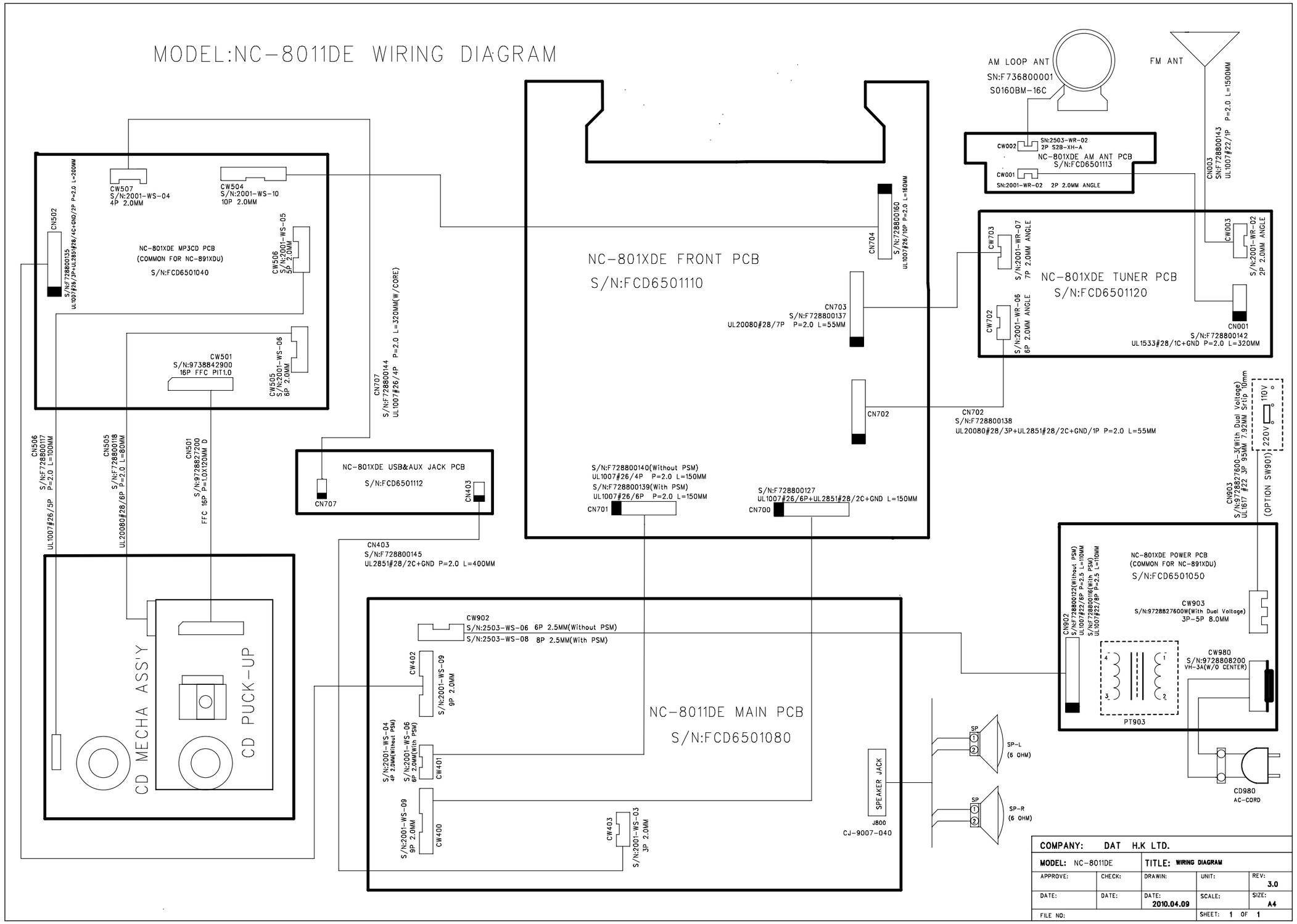
No.	PARTS NAME	CODE NO.	DESCRIPTIONS	Q'TY	REMARKS
1	PANEL FRONT	9CD0322500	HIPS	1	
2	KNOB VR	9CD1370900	HIPS	1	
3	KNOB TUNING	9CD1371000	HIPS	1	
4	STOPPER	9CD5700700	HIPS	1	
5	WINDOW LCD	9CD1628600	ACRYL	1	
6	KNOB REC	9CD1371100	HIPS	1	
7	KNOB FUNCTION	9CD1370800	HIPS	1	
8	DECO FRONT L	9CD10195L0	HIPS	1	
9	DECO FRONT R	9CD10195R0	HIPS	1	
10	BRACKET CABINET	9CD2421200	SECC T1.0	2	
11	REFLECTOR LED L	9CD22006L0	HIPS	1	
12	REFLECTOR LED R	9CD22006R0	HIPS	1	
13	CUSHION FOOT	9CD4212500	POPON MX-48HF Φ10*T3.0	2	NC-8015/16 4PCS
14	SHEET DIFFUSION	9CD9603100	PE 0.15T	1	
15	WIDDOW REFLECTOR	9CD1621600	PMMA	1	
16	GUIDE LCD	9CD2509500	HIPS WHITE	1	
17	FRONT PCB AS	FCDC00550X	NC-8011/8015/8016DE	1	
18	SCREW MACHINE	7003263511	M2.6X3.5	1	
19	GEAR PVC	9CD2702600	ABS	1	
20	PIN GEAR	9CD3501700	PW	1	
21	GEAR IDLE	9CD2702700	ABS	1	
22	TUNER PCB AS	FCDC005700	NC-8011/8015/8016DE	1	
23	NUT	7391500011	M5X0.8	1	
24	USB & AUX PCB AS	FCDC005510	NC-8011/8015/8016DE	1	
25	AM ANT PCB AS	FCDC005509	NC-8011/8015/8016DE	1	
26	SW VOLTAGE SELE	5S30102377-1	ZH-06-01	1	ONLY FOR TOSHIBA
27	HEAT SINK 15	9CD4415500	AL T2.0	1	NC-8011DE
28	MAIN PCB AS	FCDC00540X	NC-8011	1	
29	BRACKET HEAT TR	9CD2413901	STS T0.4	1	
30	PLATE MICA	9CD0910600	WHITE MICA 25X30mm	1	NC-8011DE
31	POWER TRANS	5TP0066F78	EI=66X30 127V/230V 60/50Hz	1	NC-8011DE

No.	PARTS NAME	CODE NO.	DESCRIPTIONS	Q'TY	REMARKS
32	CHASSIS BOTTOM	9CD0617900	HIPS	1	
33	POWER PCB AS	FCDC005000	NC-8011DE	1	
34	CD (MP3) PCB AS	FCDC005600	NC-8011/8015/8016DE	1	
35	BRACKET CD DECK	9CD2421601	HIPS	1	
36-1	CD- PICK UP	9CD6014830	R800	1	RICHLY
36-2	CD- PICK UP	9CD6014200	DA11VZ SANYO	1	SANYO
37	CD DECK	9CD6016800	8210D	1	ASA
38	COVER SIDE L	9CD04262L0	HIPS	1	
39	COVER SIDE R	9CD04262R0	HIPS	1	
40-1	COVER BACK	9CD0426100	HIPS	1	NC-8011DE
40-2	COVER BACK	9CD0426110	HIPS	1	NC-8015/16DE
41	COVER TOP	9CD0426000	HIPS	1	
42	DOOR CD	9CD1819800	HIPS	1	
43	AMP PCB AS	FCDC00540X	NC-8015/8016DE	1	
44	HEAT SINK AMP	9CD4415610	AL EXT	1	NC-8015DE
45	SMPS PCB AS	FCDC005800	NC-8015/8016DE	1	
46	CHASSIS BOTTOM	9CD0618000	SECC T1.0	1	NC-8015/16DE
47	HEAT SINK AMP	9CD4415710	AL EXT	1	NC-8016DE
48	BRACKET PCB AMP	9CD2422400	HIPS	1	NC-8015/16DE
49	HOLDER AC CORD	9CD2303300	HIPS	1	NC-8015/16DE
50	SUPPORT PCB 12	9CD2507401	HIPS	3	NC-8015/16DE
51	AC CORD	F736909021	2X0.75mm2 L=1.85M	1	
52	SHIELD SMPS PCB	9CD3305600	SPTE T0.3	1	
S1	SCREW TAPPTITE	7173261011	TT2 BIN 2.6X10 MFZN	20	
S2	SCREW TAPPTITE	7173301011	TT2 BIN 3X10 MFZN	11	TOSHIBA 向 13PCS
S3	SCREW TAPPTITE	7173300811	TT2 BIN 3X8 MFZN	4	NC-8015/16 13PCS
S4	SCREW WASHER	9CD3102400	TT2 WAS 3X10+D14 MFZN	3	NC-8011 4PCS
S5	SCREW TAPPTITE	7173301211	TT2 BIN 3X12 BK	23	
S6	SCREW TAPPTITE	7173401211	TT2 BIN 4.0X12 MFZN	4	ONLY NC-8011DE
S7	SCREW TAPPTITE	7173301411	TT2 BIN 3X14 MFZN	3	ONLY NC-8015/8016DE

4

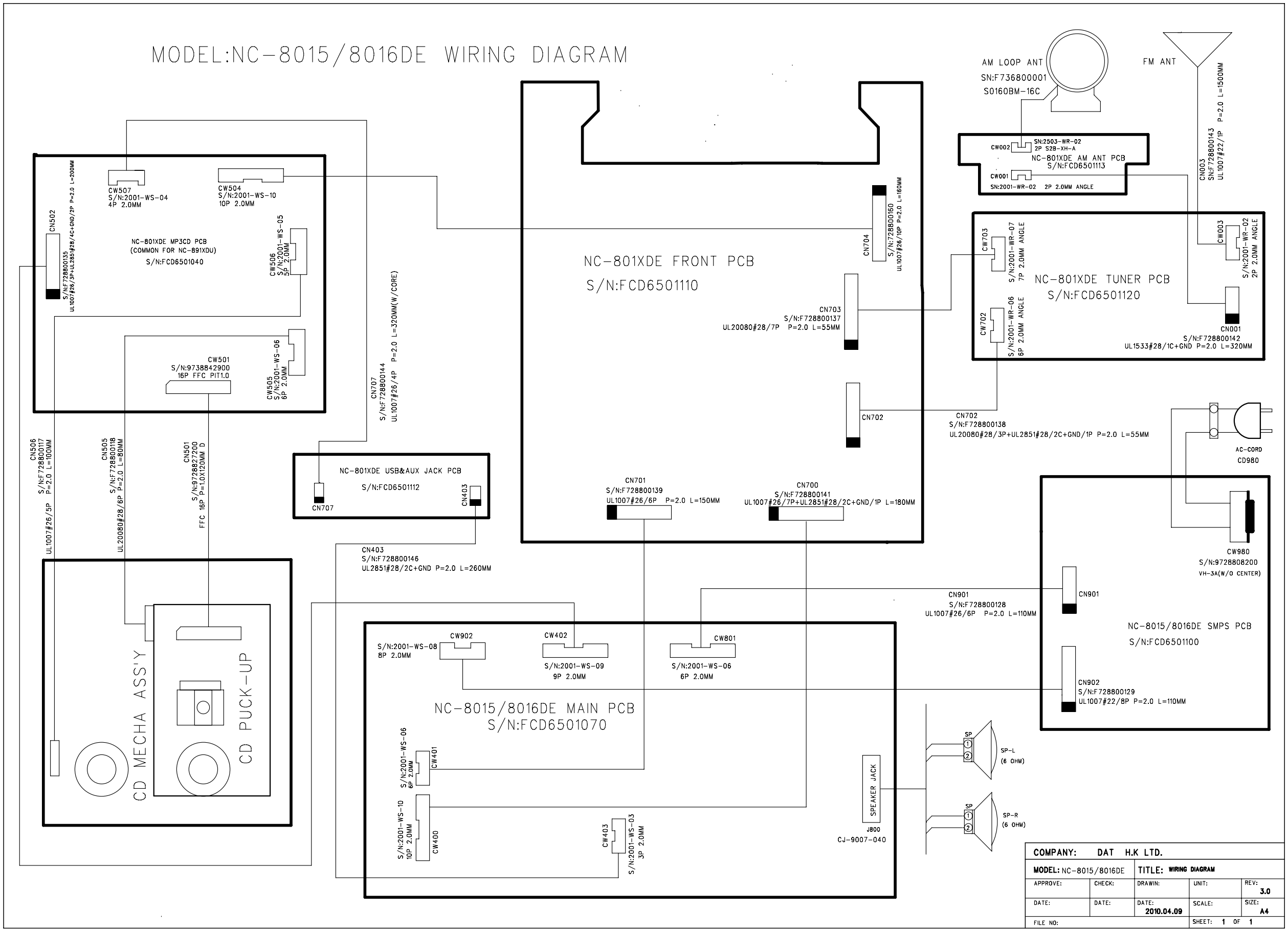
Wiring Diagram

- **Only NC-8011DE Model**



Wiring Diagram

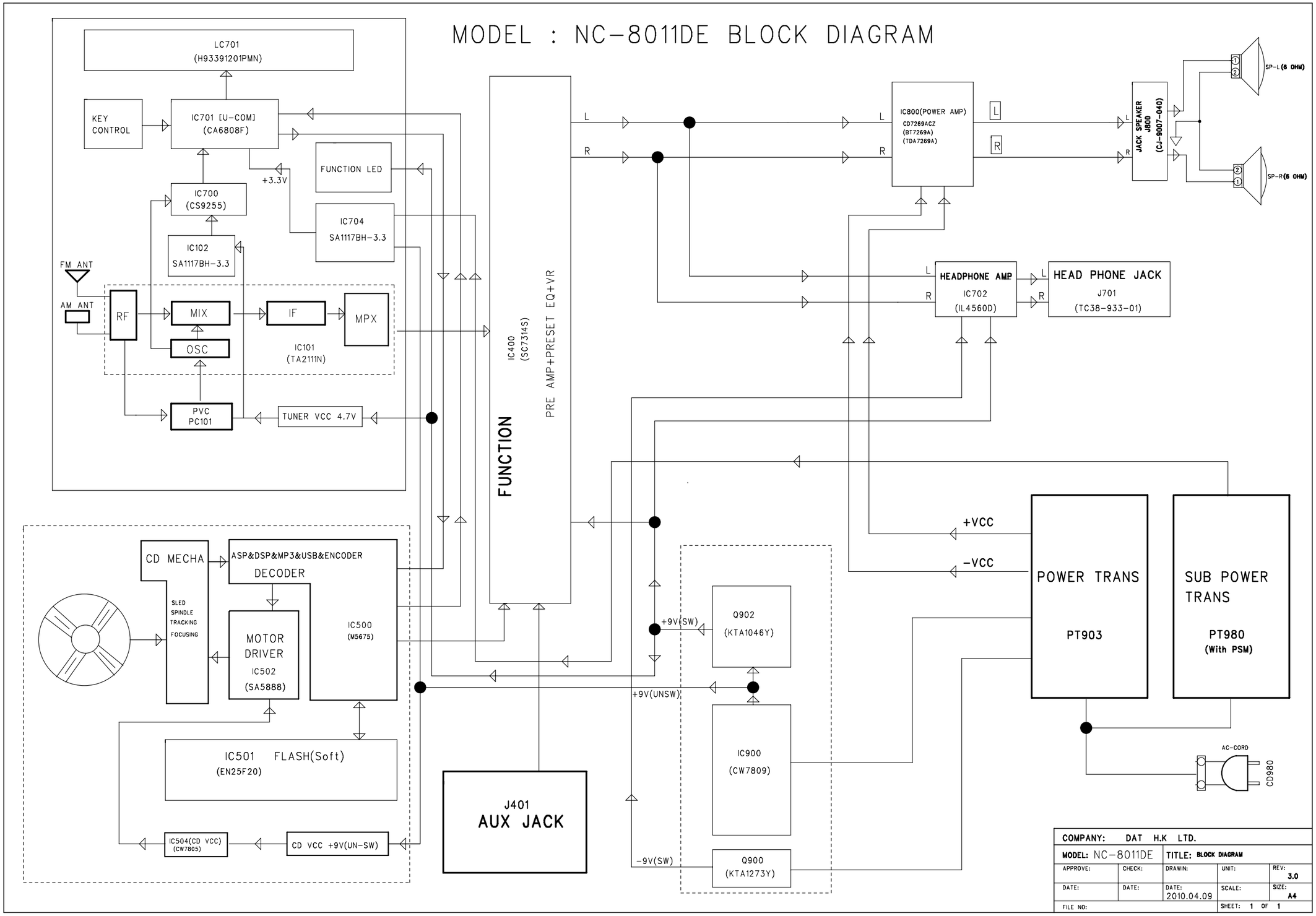
- Only NC-8015/8016DE Model



5

Block Diagram

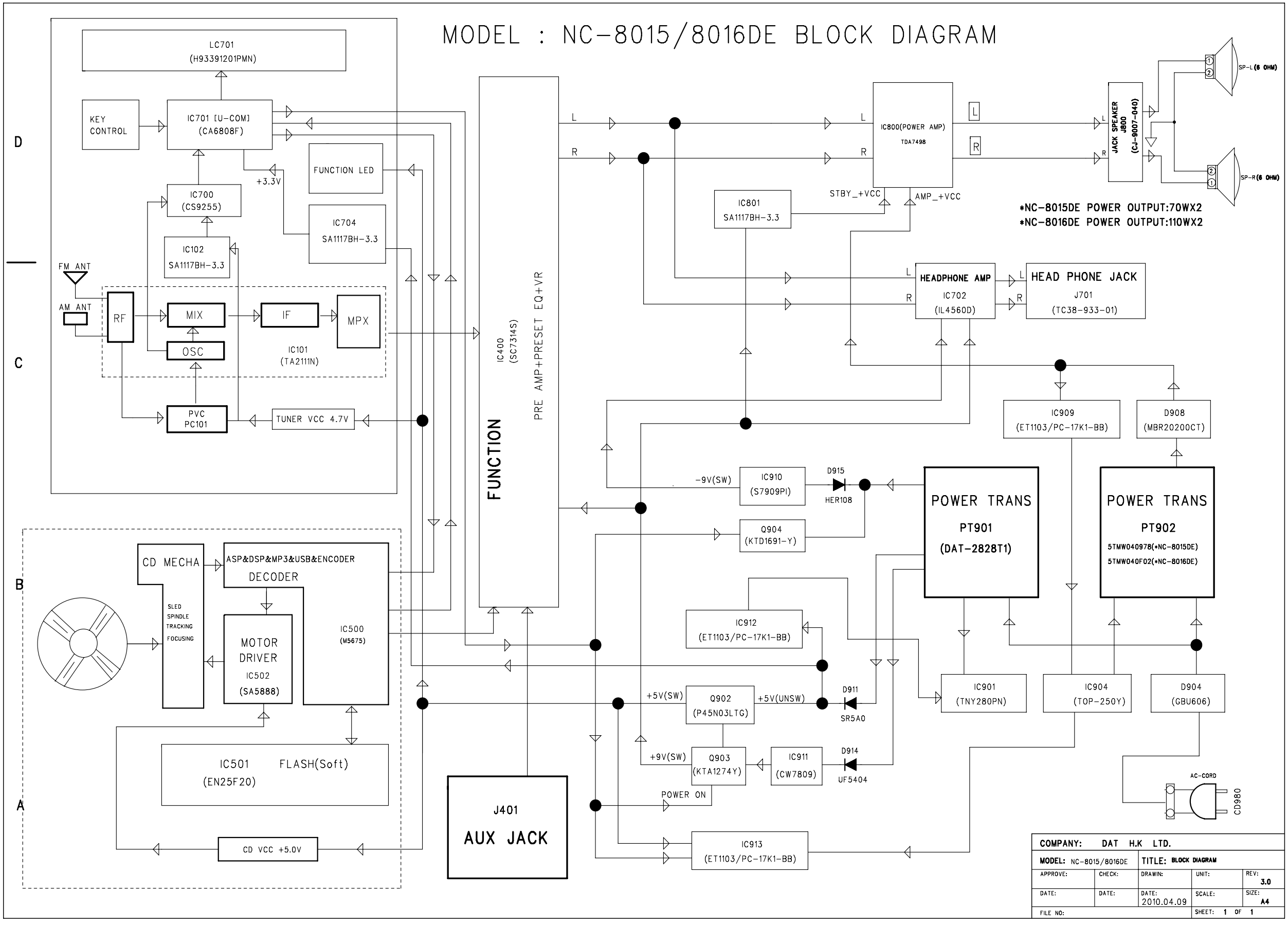
- Only NC-8011DE Model



6

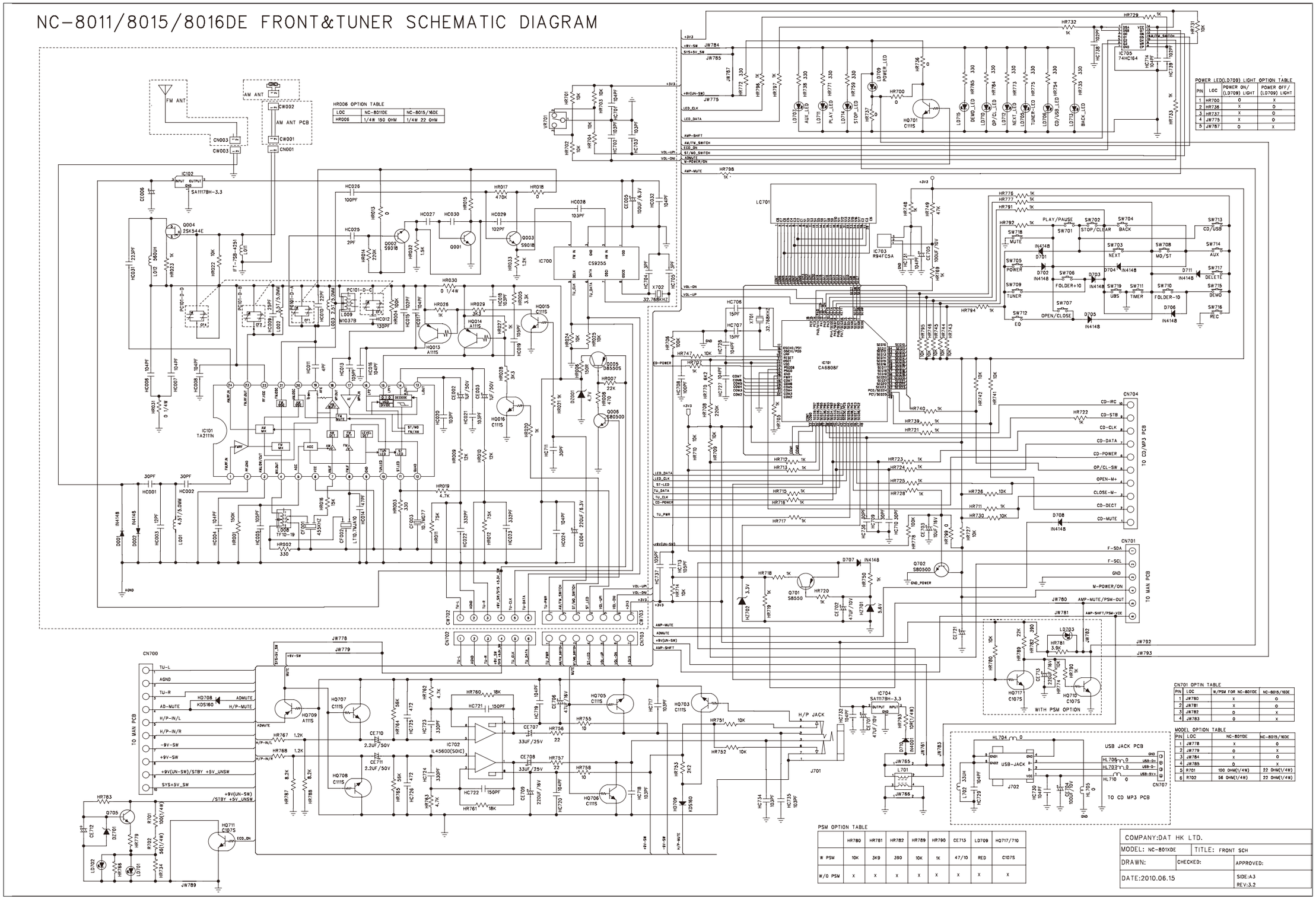
Block Diagram

- Only NC-8015/8016DE Model



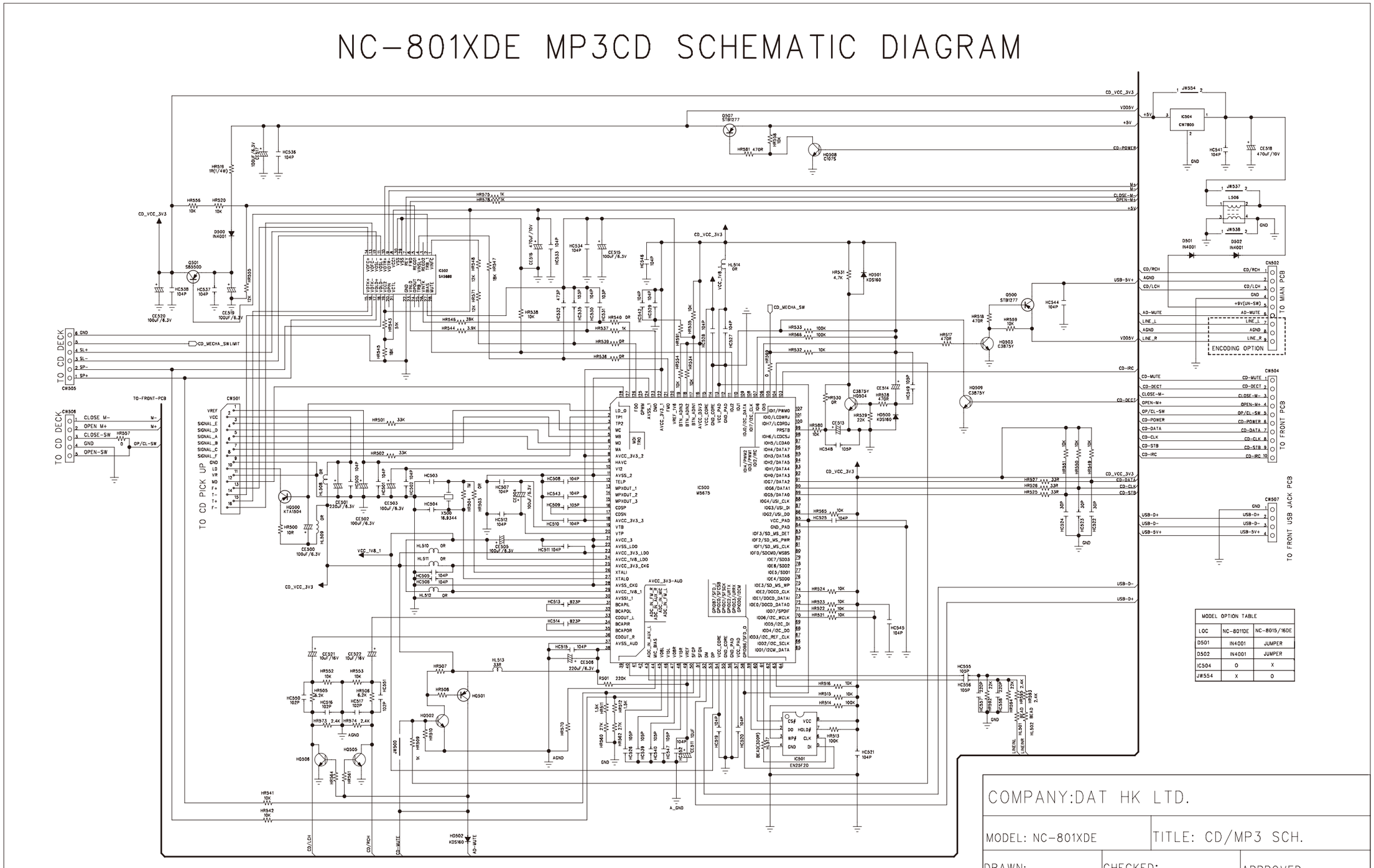
Schematic Diagram

- **FRONT &TUNER Section**



7

- **MP3 / CD Section**



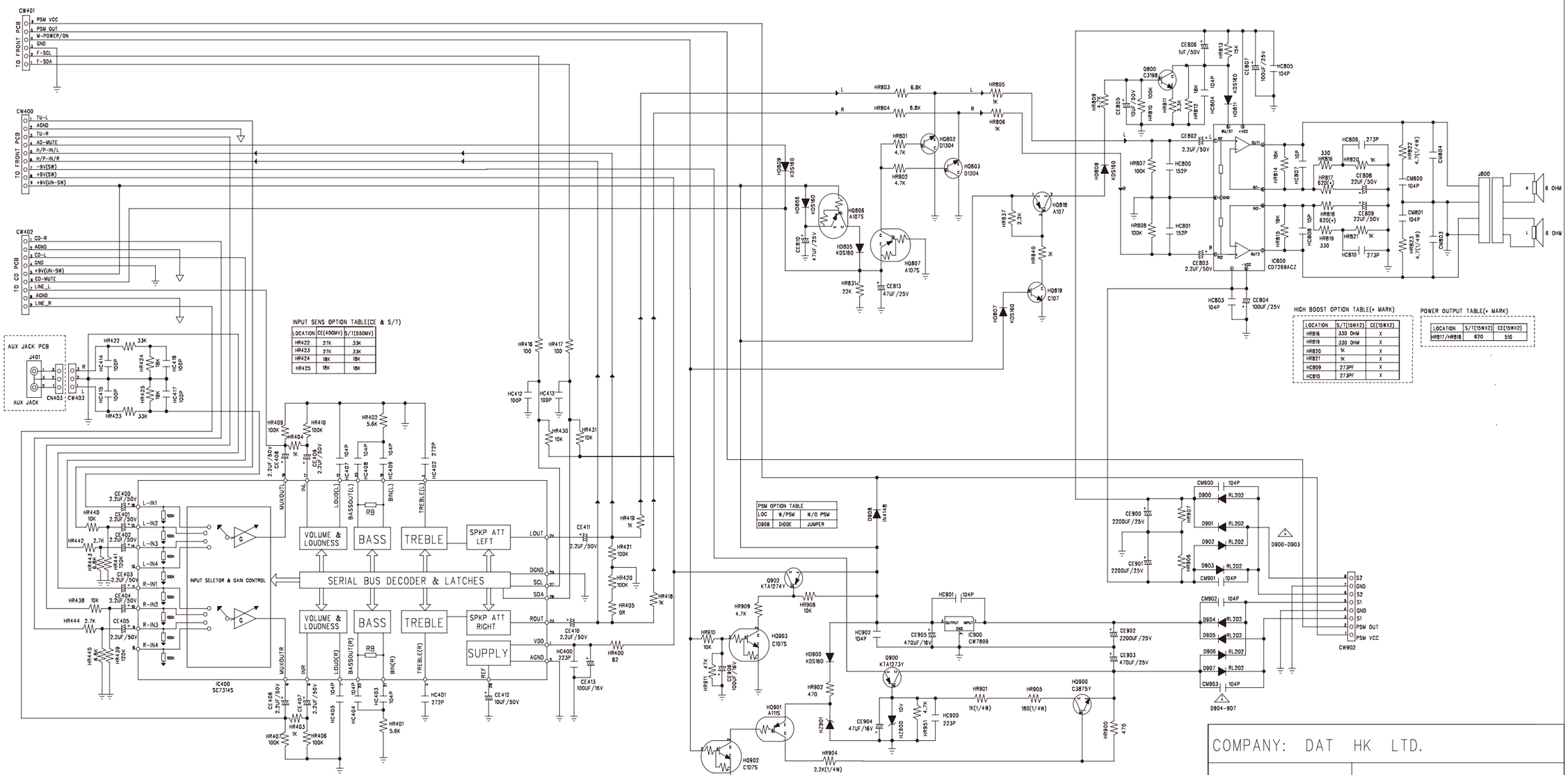
MODEL OPTION TABLE		
LOC	NC-8011DE	NC-8015/16DE
D501	IN4001	JUMPER
D502	IN4001	JUMPER
IC504	0	X
JW554	X	0

COMPANY:DAT HK LTD.		
MODEL: NC-801XDE	TITLE: CD/MP3 SCH.	
DRAWN:	CHECKED:	APPROVED:
DATE:2010.06.15		SIDE:A3
		REV:3.2

7

- **MAIN Section (Only NC-8011DE Model)**

NC-8011DE MAIN SCHEMATIC DIAGRAM

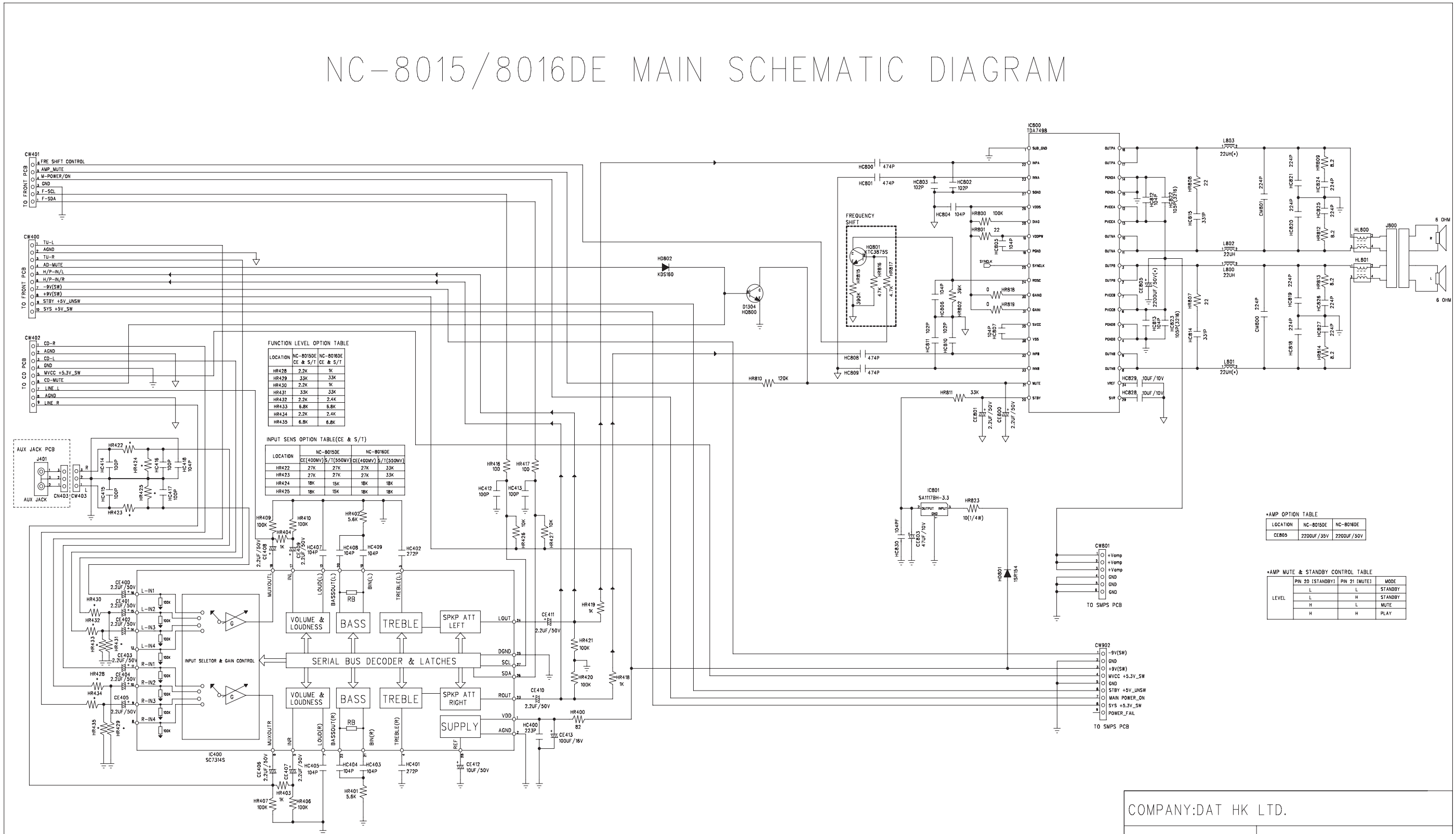


BEFORE RETURNING THE RECEIVEC TO CUSTOMER .
APPROPPIATE LEAKAGE CURRENT OR RESISTANCE SHOULD BE CONDUCTED TO DETERMINE
THAT EXPOSED PARTS ARE PROPERLY INSULATED FROM THE SUPPLY CIRCUIT.
NOTE:THE COMPONENTS INDENTIFIDE BY ⚠MARK
ARE CRITICAL FOR SAFETY REPLACE ONLY WITH SAME TYPE PARTS SPECIFIED
WARNING:FOR CONTINUDE SAFETY,REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

COMPANY: DAT HK LTD.		
MODEL: NC-8011DE	TITLE:MAIN DIAGRAM	
DRAWN:	CHECKED:	APPROVED:
DATE:2010.06.15		SIDE:A3
		REV:3.2

7

- MAIN Section (Only NC-8015/8016DE Model)



BEFORE RETURNING THE RECEIVEC TO CUSTOMER .
APPROPPIATE LEAKAGE CURRENT OR RESISTANCE SHOULD BE CONDUCTED TO DETERMINE
THAT EXPOSED PARTS ARE PROPERLY INSULATED FROM THE SUPPLY CIRCUIT.
NOTE:THE COMPONENTS INDENTIFIDE BY ⚠ MARK
ARE CRITICAL FOR SAFETY REPLACE ONLY WITH SAME TYPE PARTS SPECIFIED
WARNING:FOR CONTINUDE SAFETY,REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

COMPANY:DAT HK LTD.		
MODEL:NC-8015/16DE MODEL	TITLE: MAIN DIAGRAM	
DRAWN:	CHECKED:	APPROVED:
DATE:2010.06.15		SIDE:A3
		REV:3.2

7

• **POWER Section(Only NC-8011DE Model)**

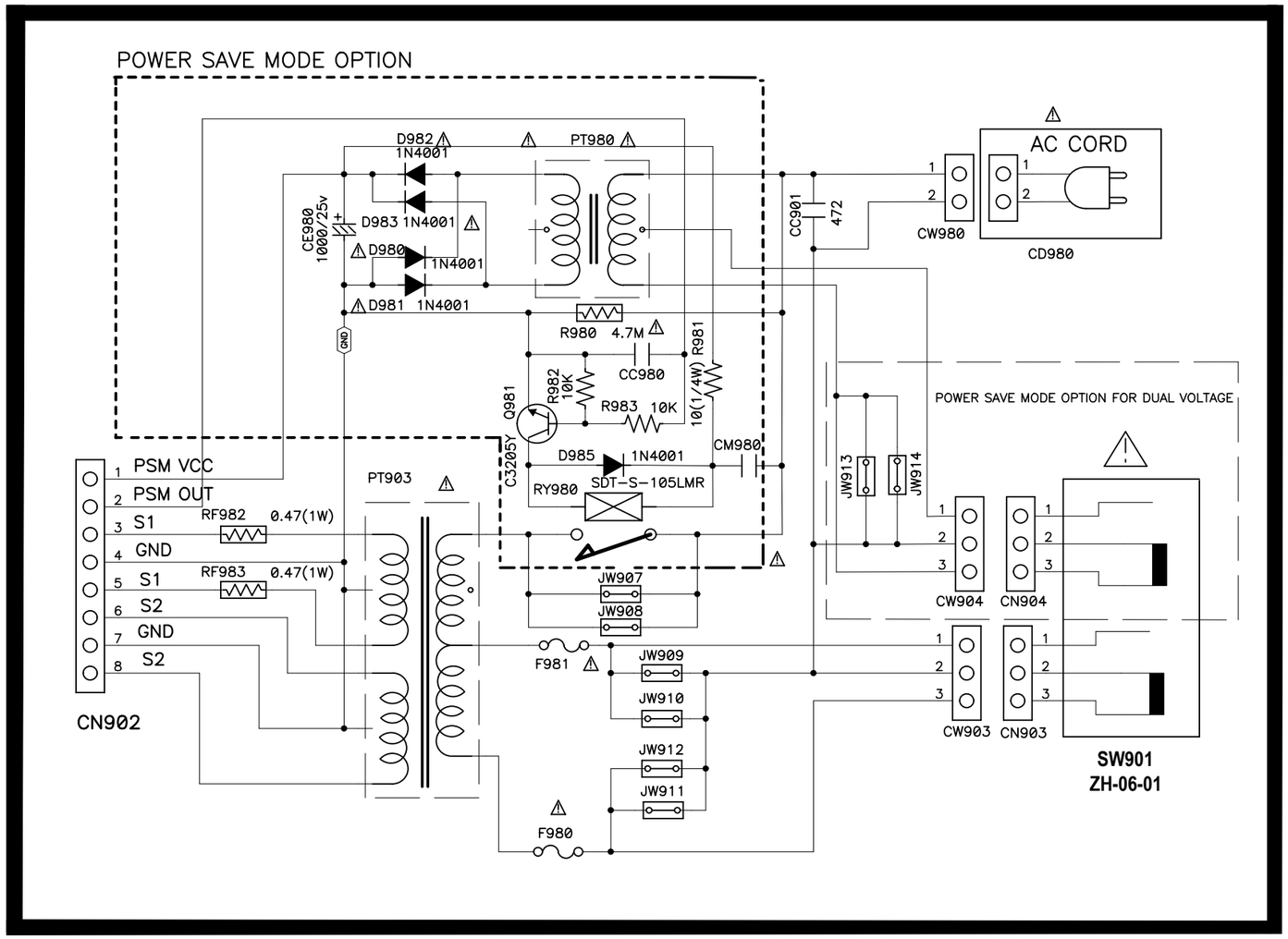
NC-8011DE POWER SCHEMATIC DIAGRAM
(COMMON FOR NC-8911DE)

FUSE TABLE

	F980(220/230/240)	F981(110/127V)
NC-8011DE	T400mA L 250V	T800mA L 250V

CE/TOSHIBA/UL FUSE PCB OPTION TABLE

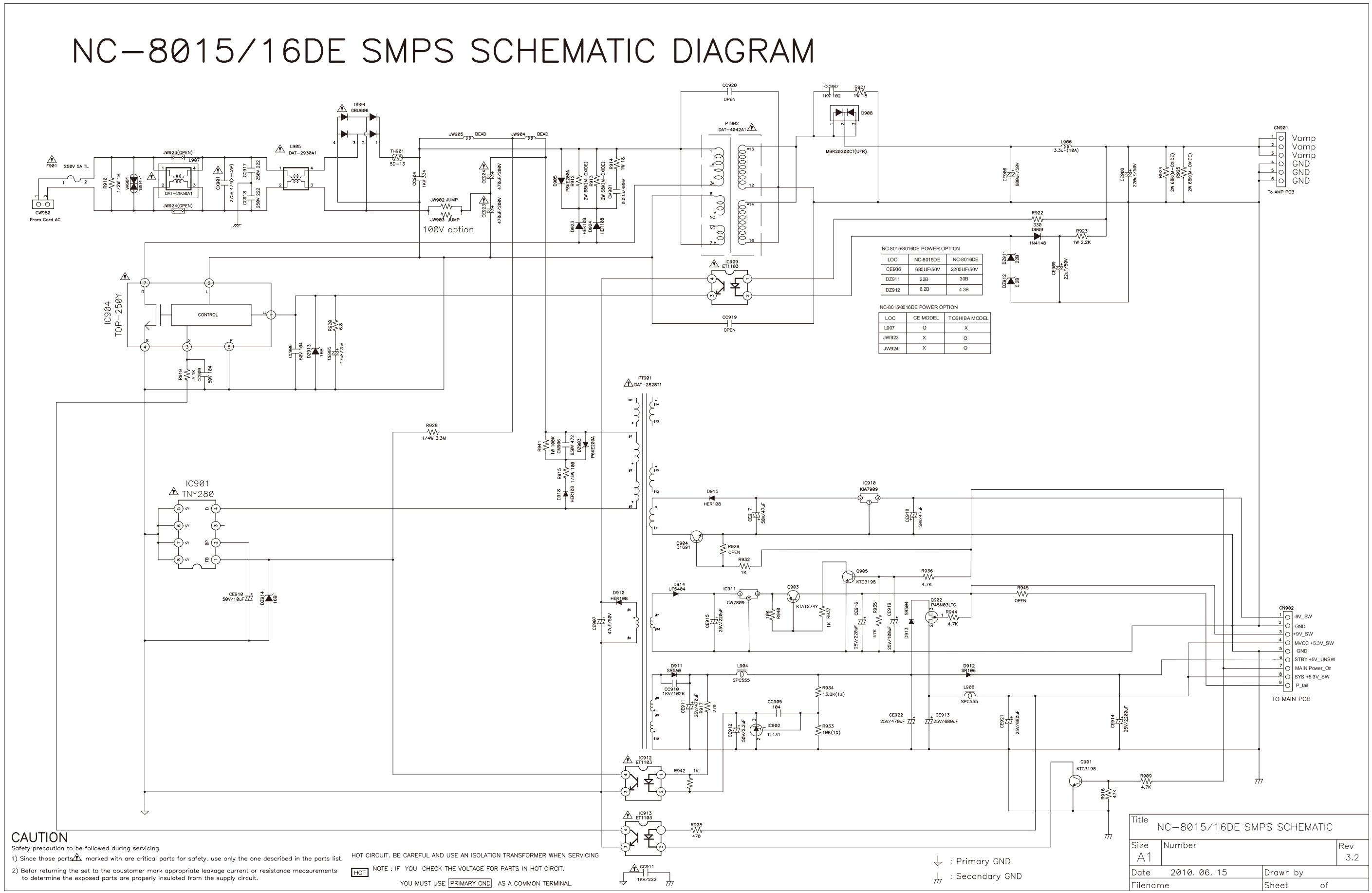
	CE	S-AM	UL
PT903	230V/50HZ	127/230V,60/50HZ	127V/60HZ
JW909	X	X	O
JW910	X	X	O
JW911	O	X	X
JW912	O	X	X



POWER

Title	NC-8011DE POWER SCHEMATIC	
Size A3	Number	Rev 3.2
Date 2009. 12. 28		Drawn by
Filename 2009 POWER		Sheet of

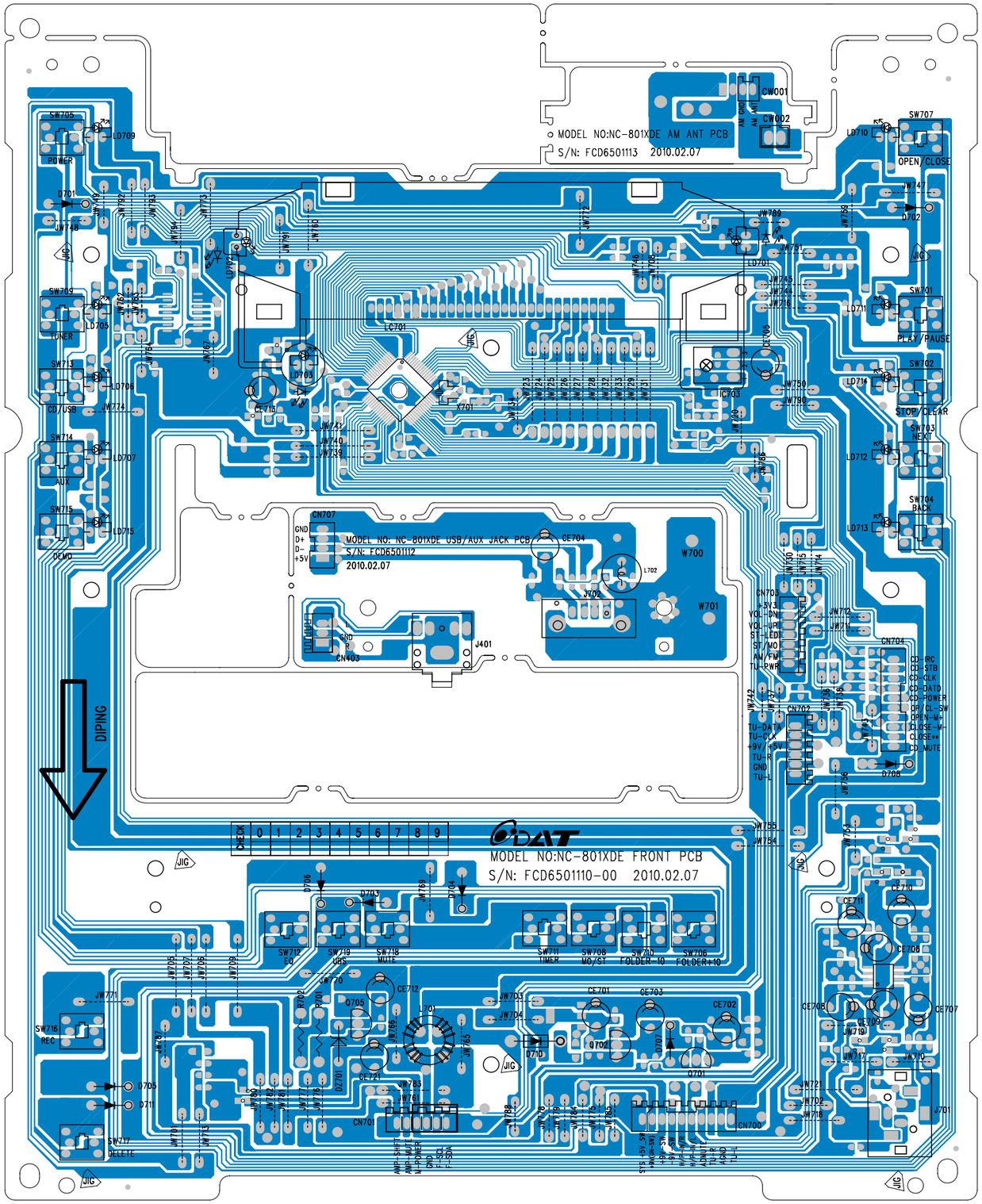
- **SMPS Section (Only NC-8015/8016DE Model)**



P. C. B Pattern Layout

FRONT Section

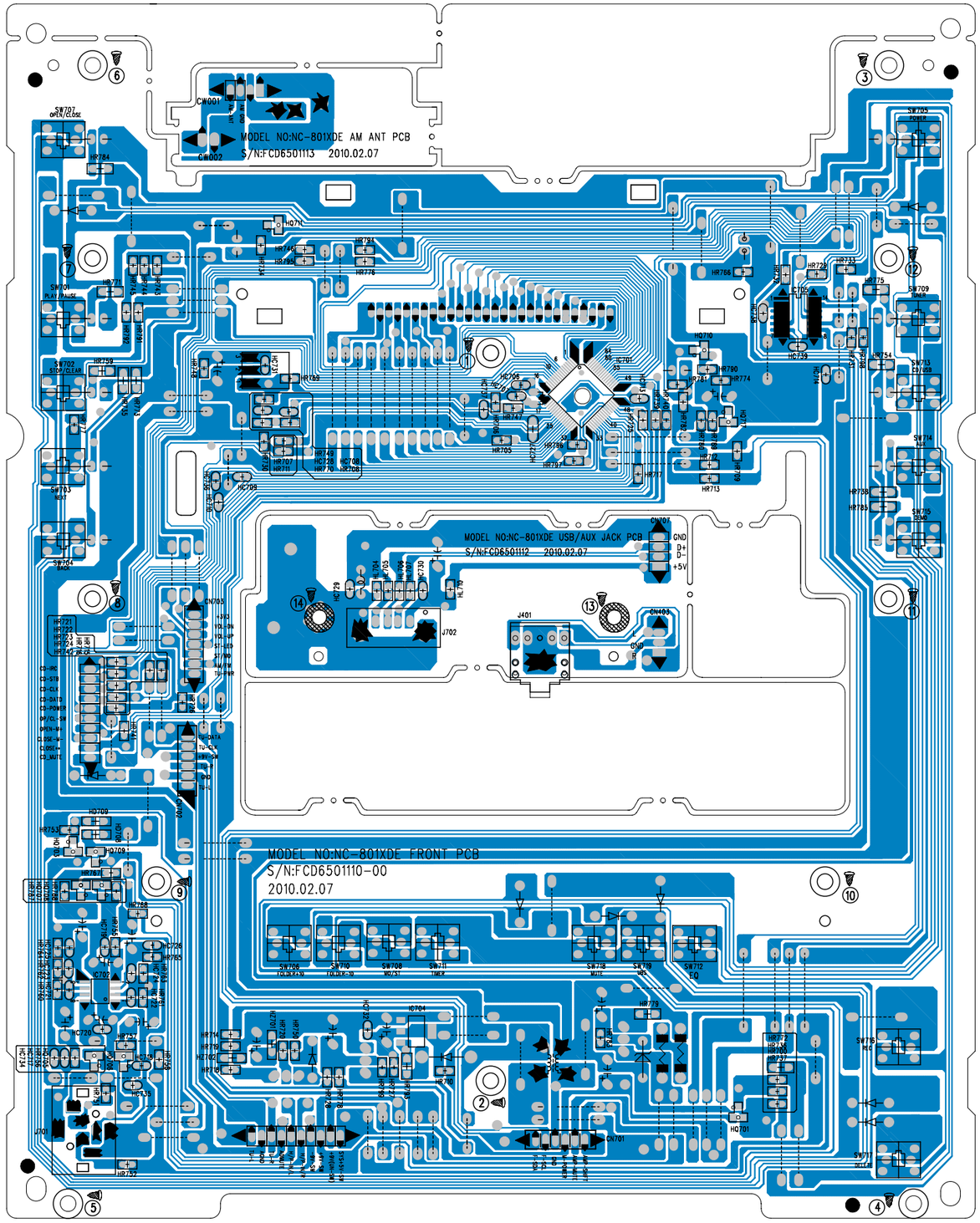
〈Top View〉



P. C. B Pattern Layout

FRONT Section

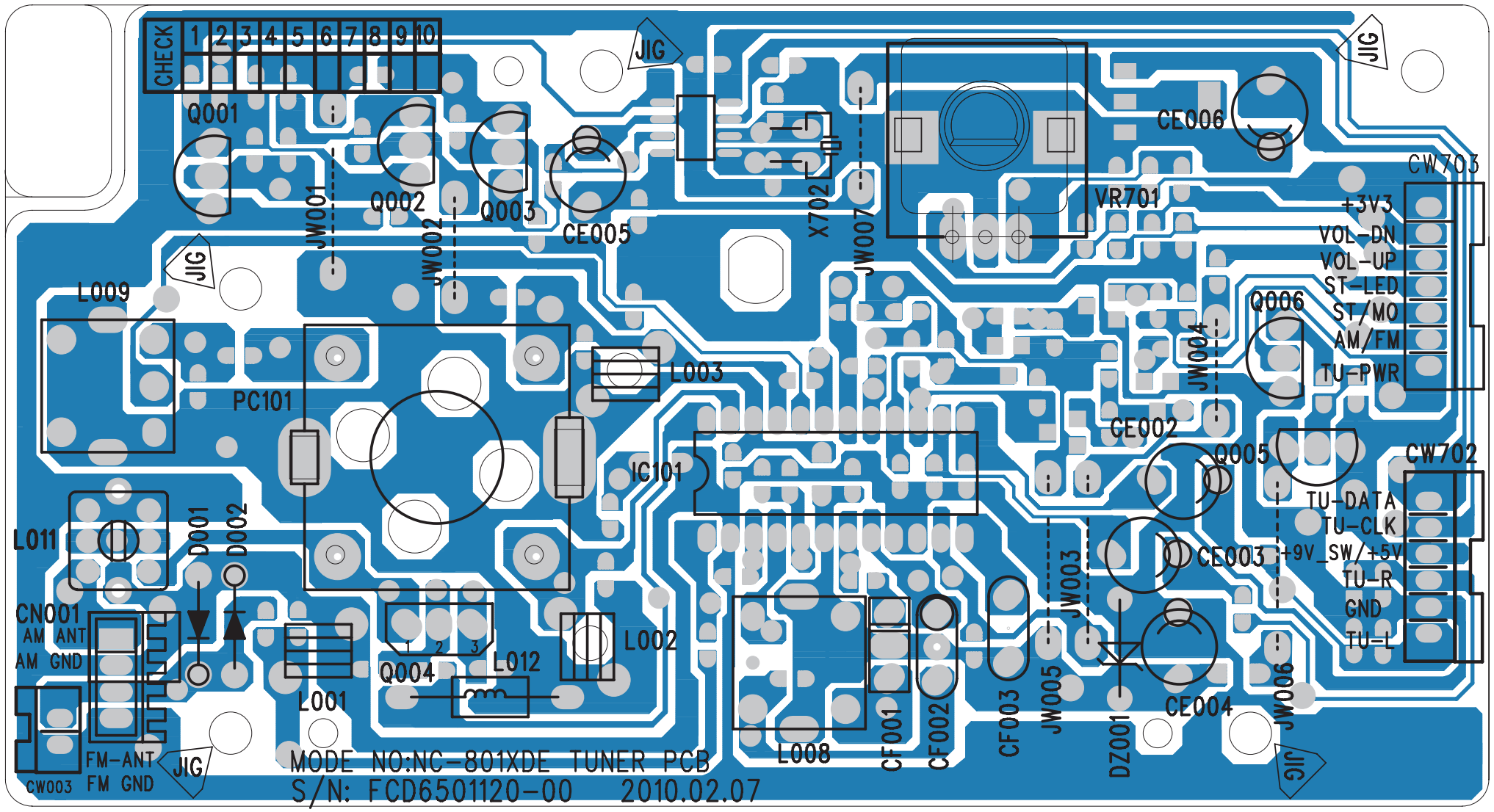
〈Bottom View〉



P. C. B Pattern Layout

TUNER Section

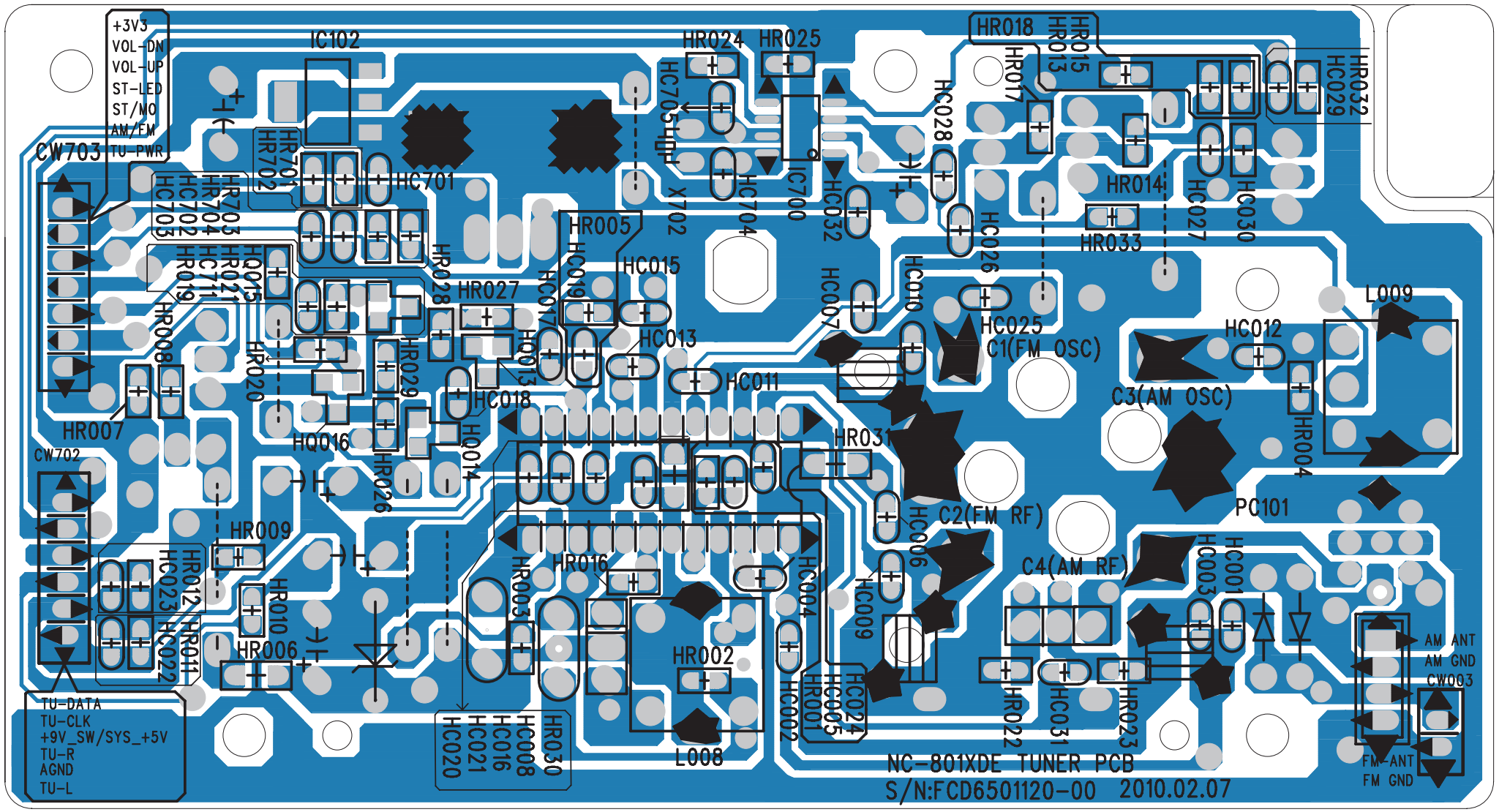
〈Top View〉



P. C. B Pattern Layout

TUNER Section

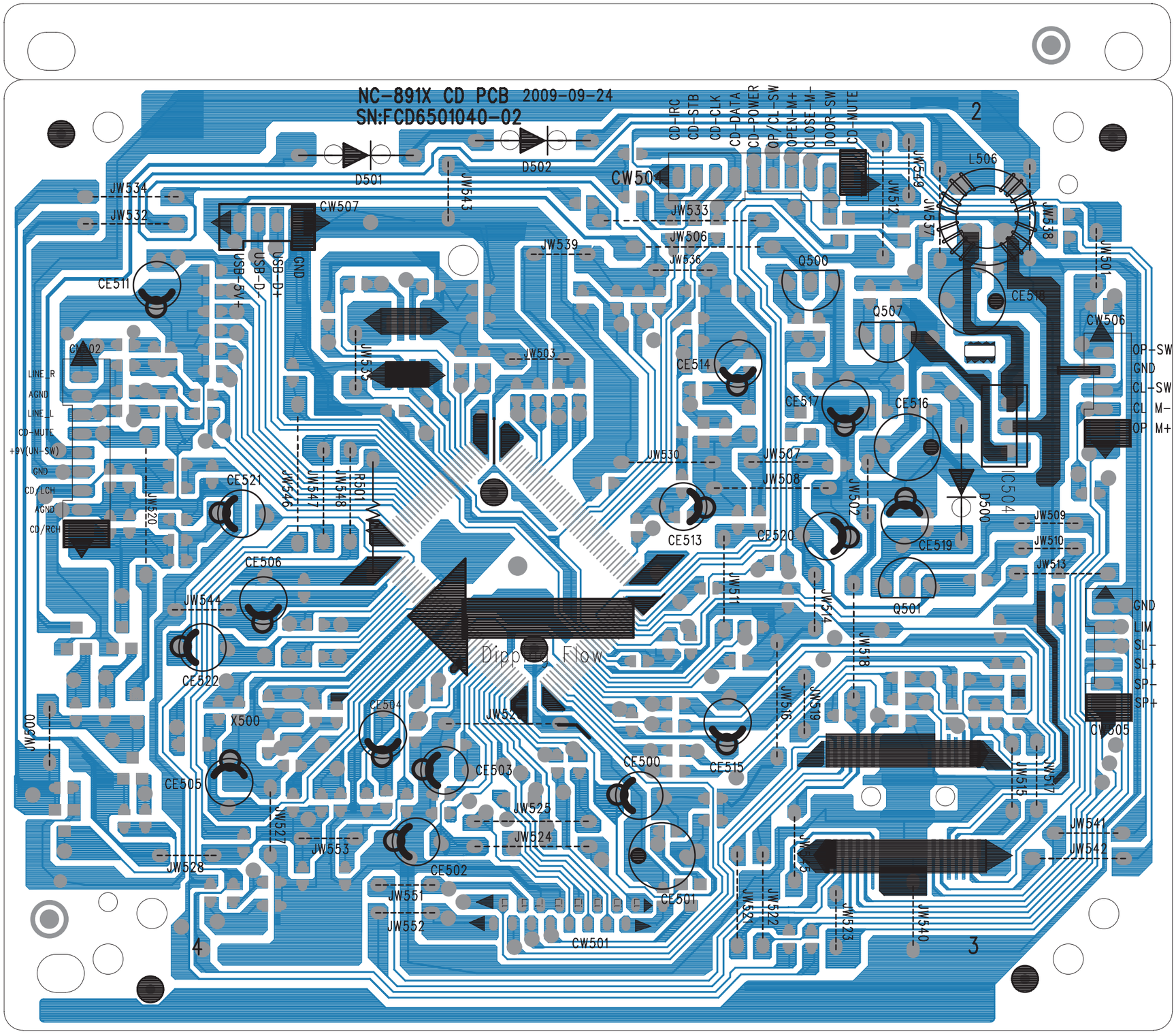
〈Bottom View〉



P. C. B Pattern Layout

MP3 /CD Section

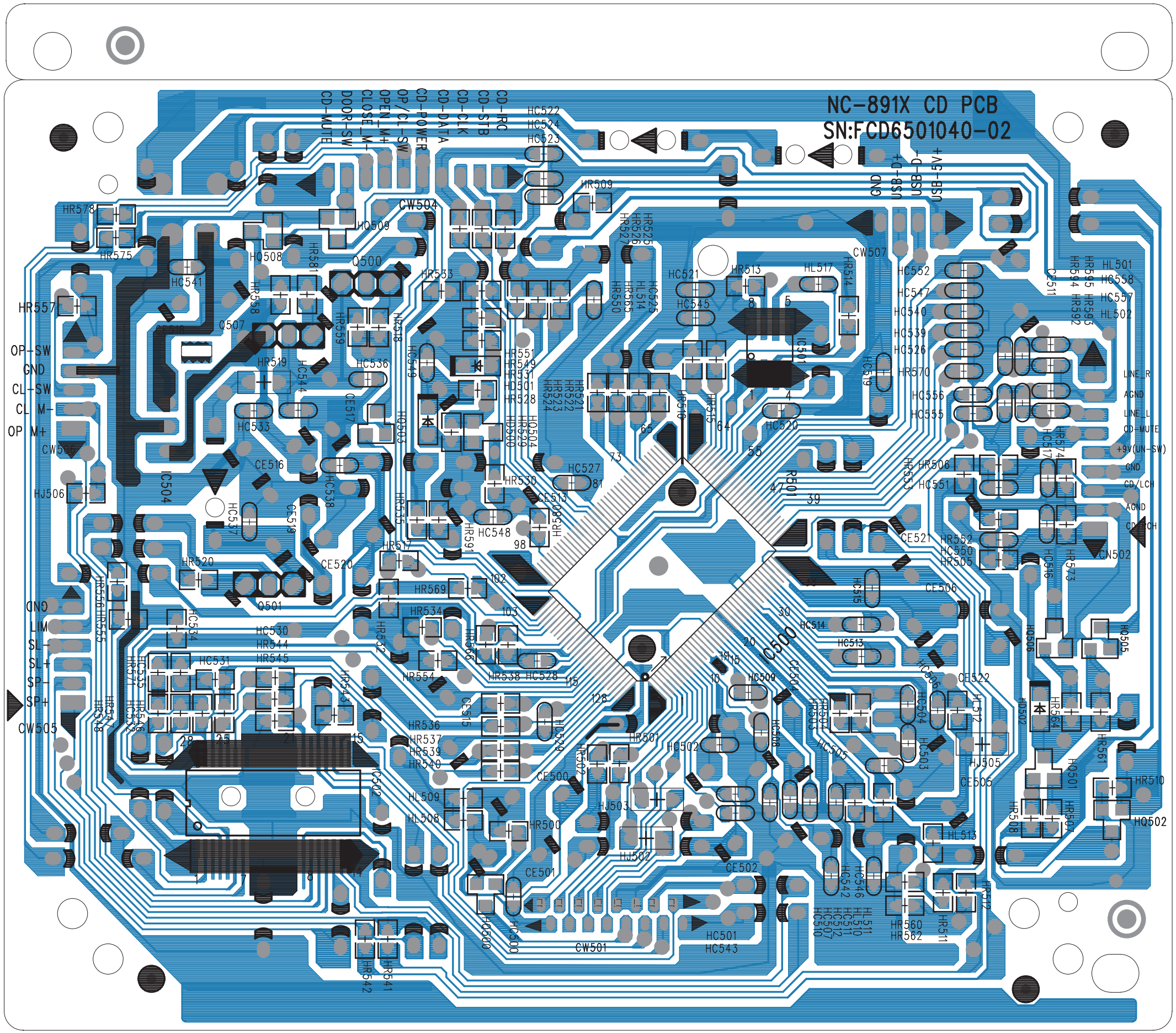
〈Top View〉



P. C. B Pattern Layout

MP3 /CD Section

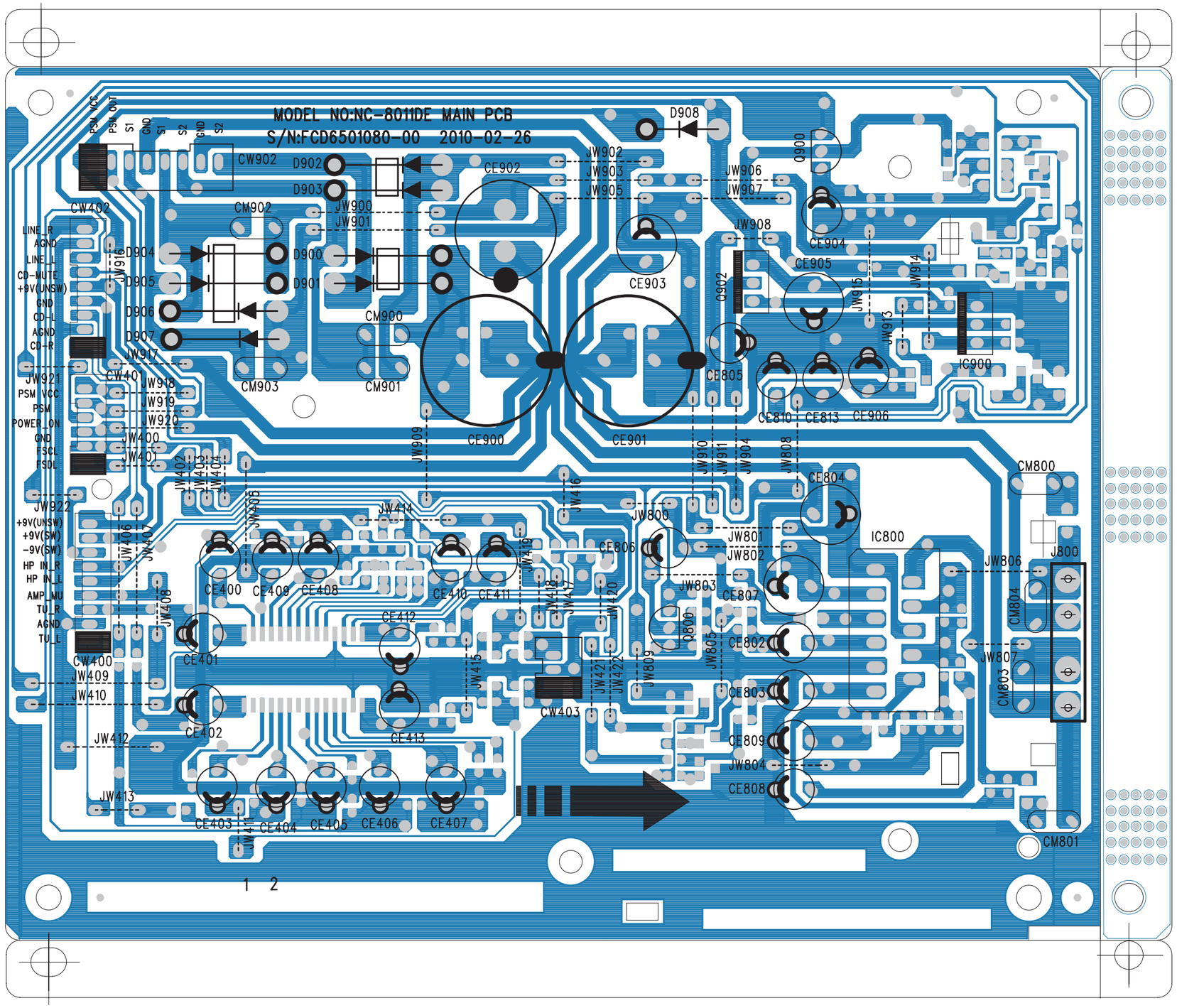
〈Bottom View〉



P. C. B Pattern Layout

MAIN Sectio (Only NC-8011DE Model)

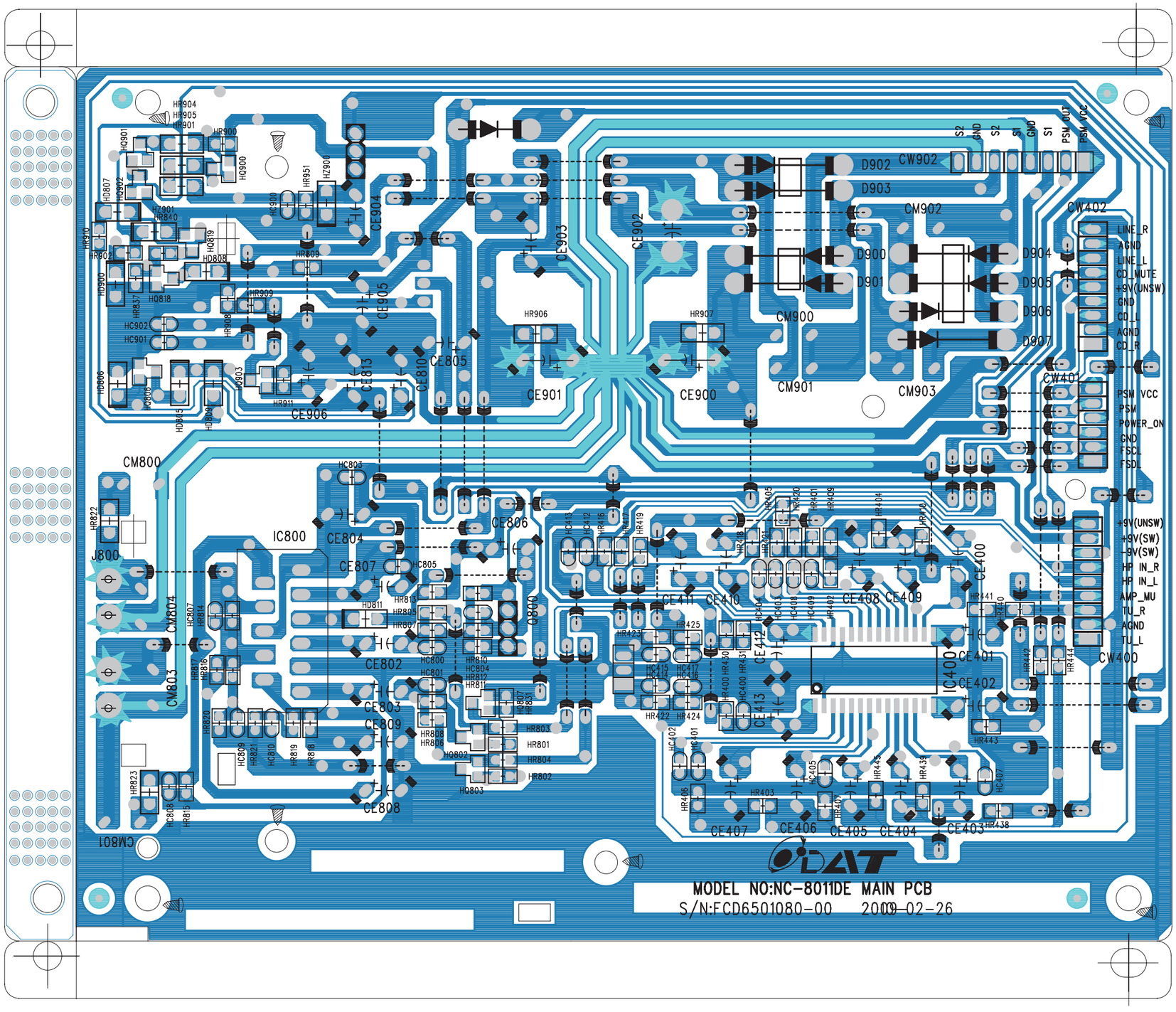
〈Top View〉



P. C. B Pattern Layout

MAIN Section(Only NC-8011DE Model)

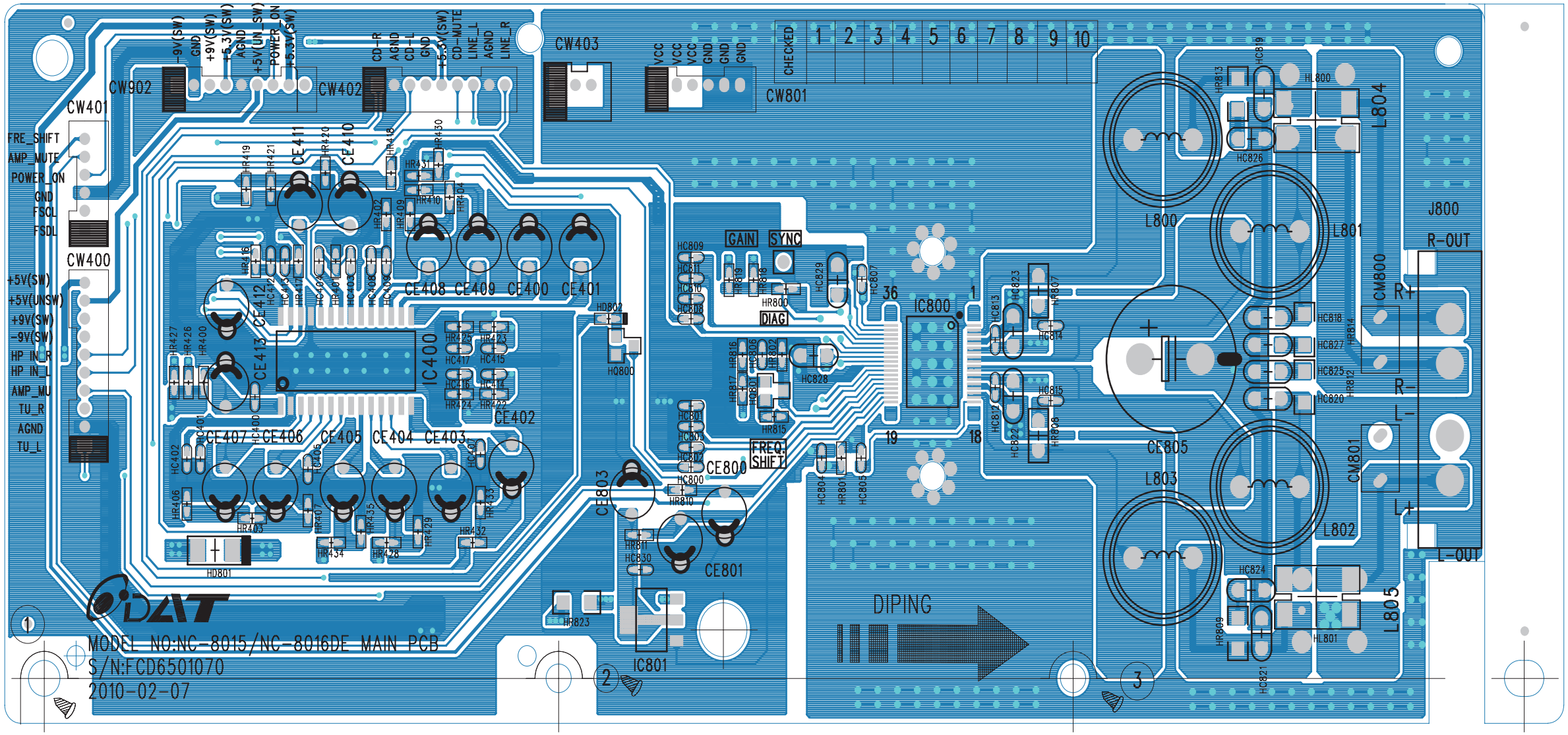
〈Bottom View〉



P. C. B Pattern Layout

MAIN Section (Only NC-8015/8016DE Model)

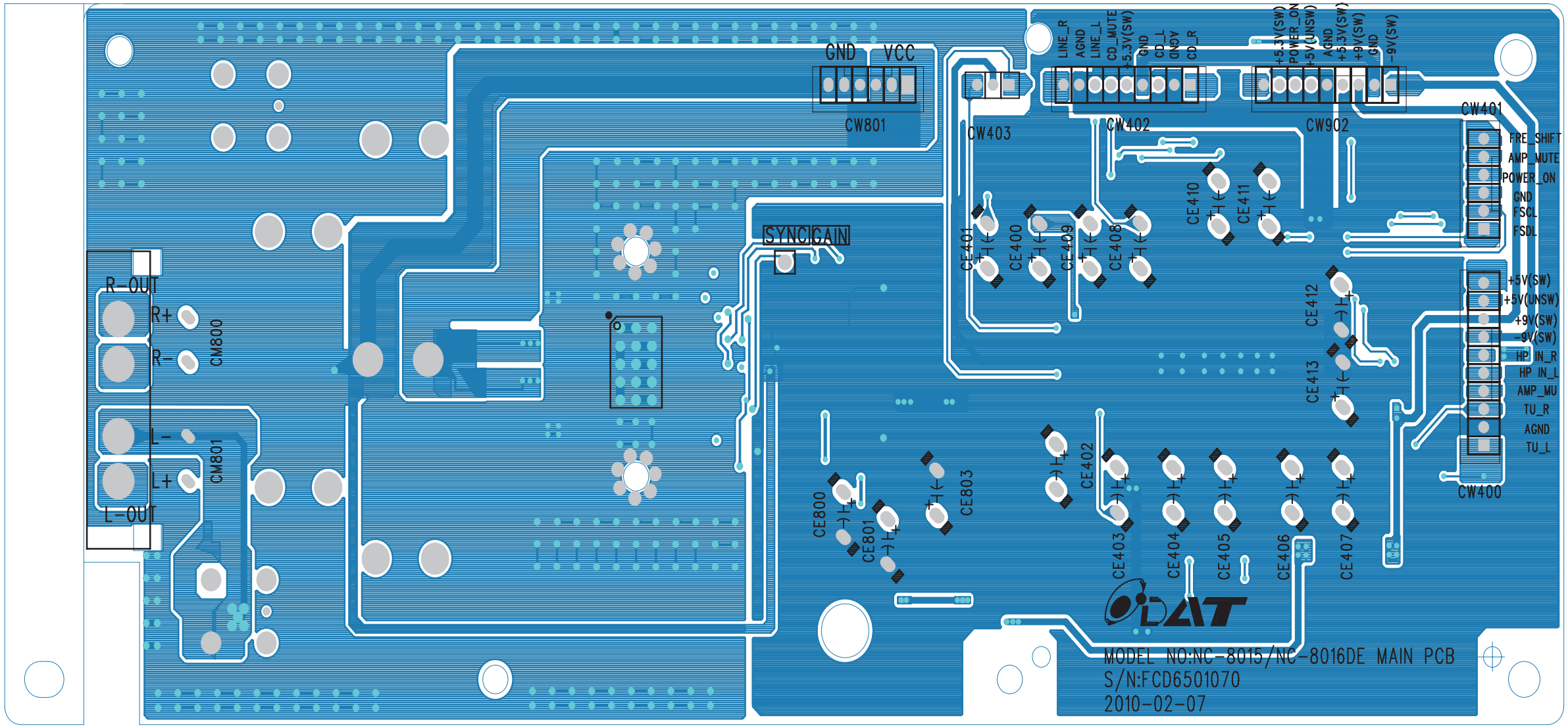
〈Top View〉



P. C. B Pattern Layout

MAIN Section (Only NC-8015/8016DE Model)

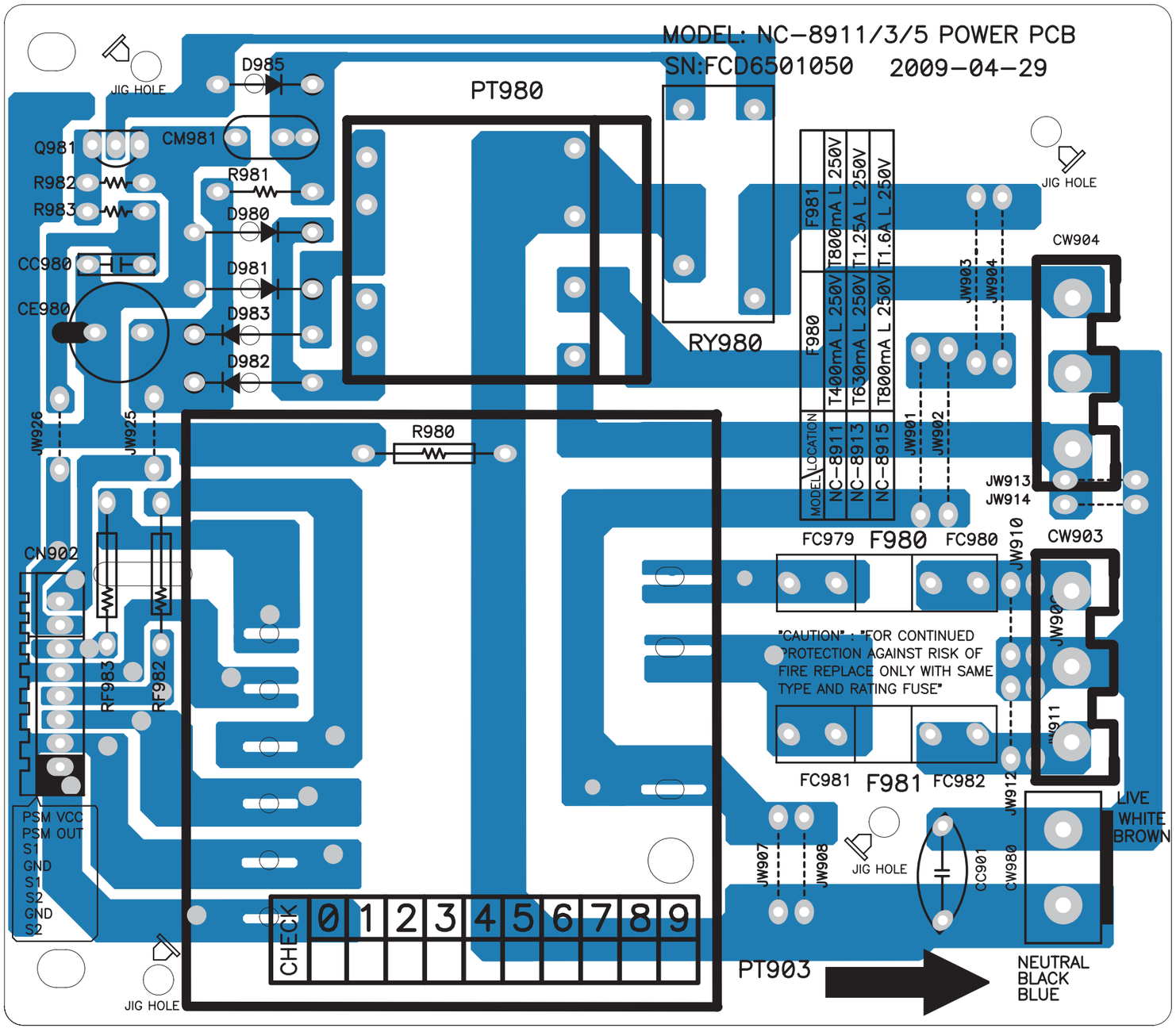
〈Bottom View〉



P. C. B Pattern Layout

POWER Section (Only NC-8011DE Model)

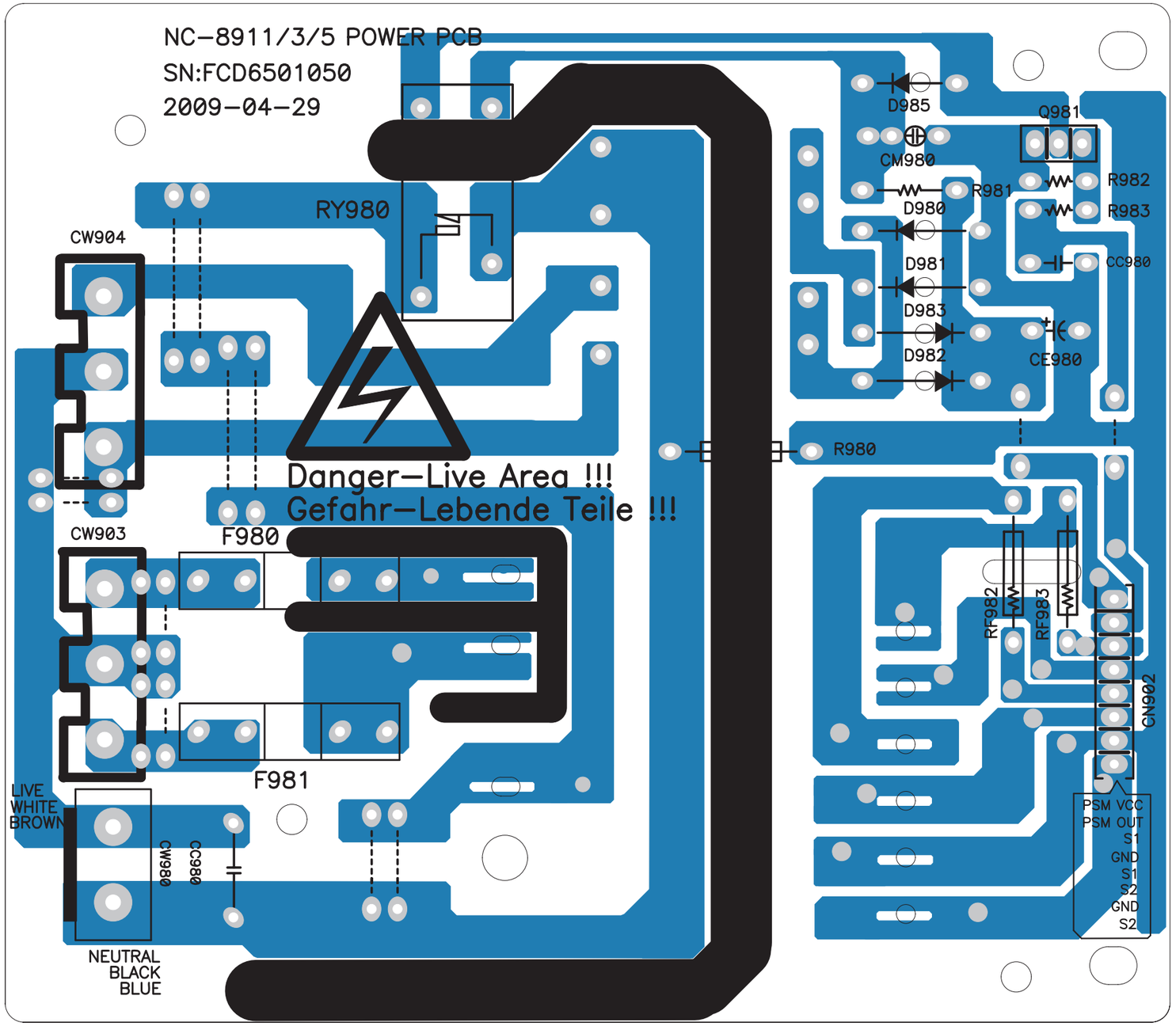
〈Top View〉



P. C. B Pattern Layout

POWER Section (Only NC-8011DE Model)

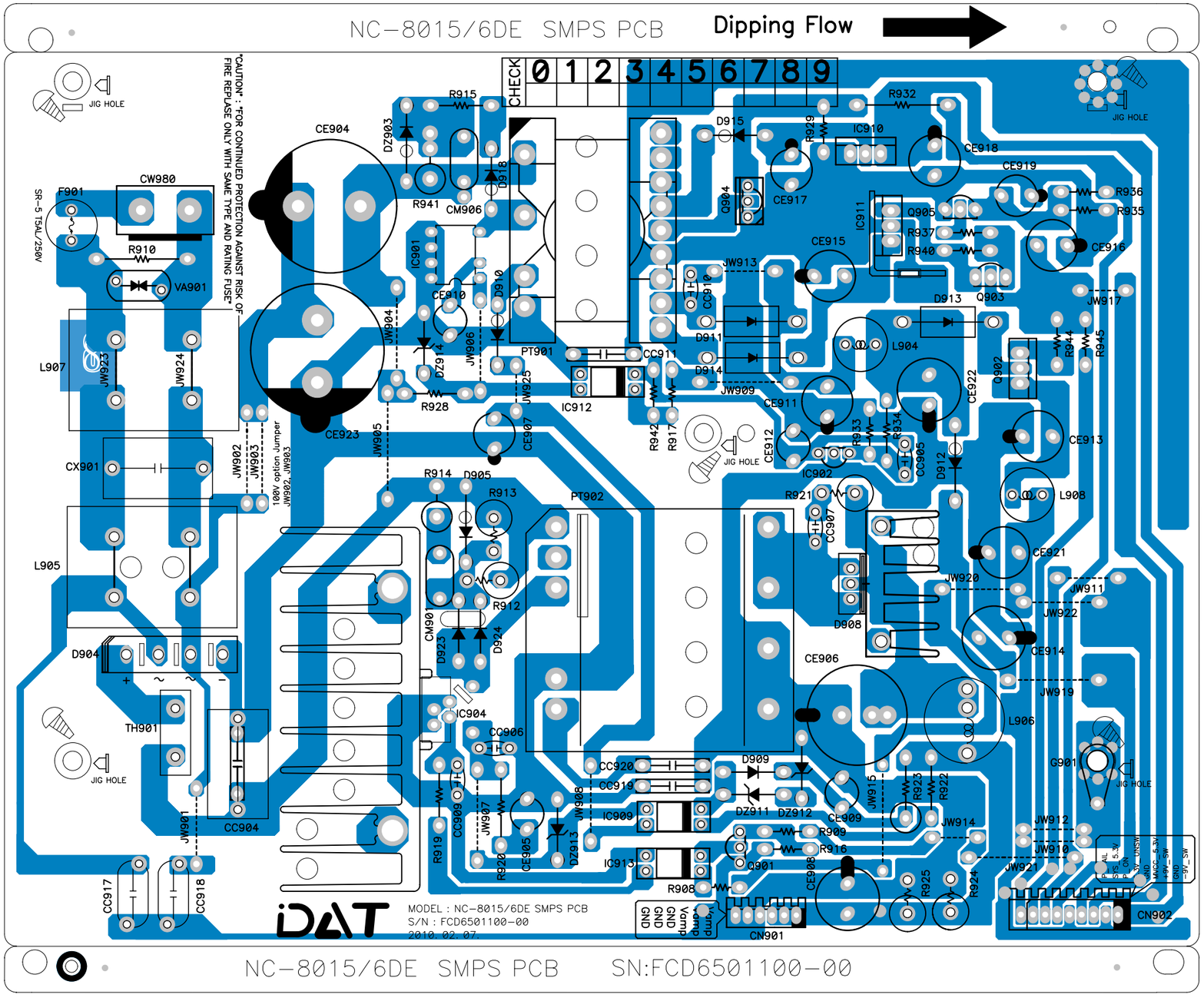
〈Bottom View〉



P. C. B Pattern Layout

SMPS Section (Only NC-8015/8016DE Model)

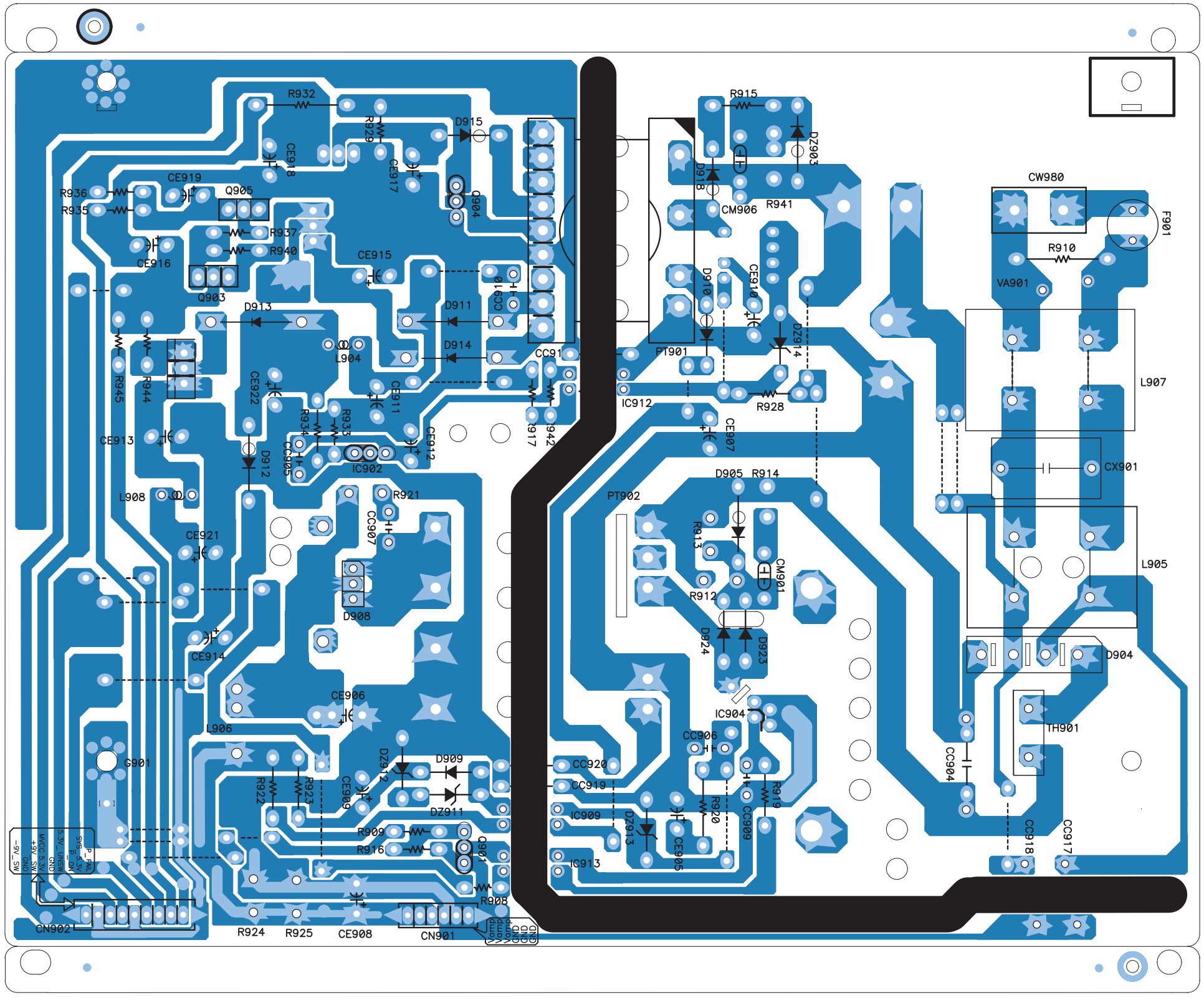
〈Top View〉



P. C. B Pattern Layout

SMPS Section(Only NC-8015/8016DE Model)

〈Bottom View〉



APPENDIX - ELECTRICAL PART LIST

NC-8011DE/NC-8015DE/NC-8016DE SVC BOM

◆◆◆◆◆◆PCB MAIN ASS'Y FOR NC-8011DE◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
D900、D901、D902、D903	DRL202----	DIODE	RL202	
D904、D905、D906、D907	DRL202----	DIODE	RL202	
HZ900	DMTZ10B---	DIODE ZENER CHIP	UDZ10B 17X12	
HQ802、HQ803	TZTD1304--	TR CHIP	KTD1304	
HQ806、HQ807、HQ818	TZRA107S--	TR CHIP	KRA107S	
HQ819、HQ902、HQ903	TZRC107S--	TR CHIP	KRC107S	
HQ900	TZTC3875S-	TR CHIP	KTC3875Y	
HQ901	TZRA111S--	TR CHIP	KRA111S	
IC400	1SC7314S--	IC AUDIO PROCESSOR	SC7314S	
IC800	1CD7269ACZ	IC	CD7269ACZ	
IC900	1CW7809---	IC	CW7809	
Q800	TZTC3198Y-	TR	KTC3198Y (2SC5343) AUTO	
Q900	TZTA1273Y-	TR	KTA1273Y (A966Y) (KSA928A-Y) (STB1277Y)	
Q902	TZTA1046Y-	TR	KTA1046Y (KTA1366Y) AUTO	
J800	9736320500-03	JACK SPEAKER	CJ-9007-040	

◆◆◆◆◆◆PCB MAIN ASS'Y FOR NC-8015/8016DE◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
HQ800	TZTD1304--	TR CHIP	KTD1304	
HQ801	TZTC3875S-	TR CHIP	KTC3875Y	
HL800、HL801	HLC610RF6A	COIL SMD	CM3322U610R-10	
IC400	1SC7314S--	IC AUDIO PROCESSOR	SC7314S	
IC800	1TDA7498--	IC	TDA7498	
IC801	1SA1117S33	IC REGULATOR	SA1117BH-3.3(SOT-223-3L)	
L800、L801、L802、L803	FLC220K013	COIL	22UH LPF(SPK)	
J800	9736320500-03	JACK SPEAKER	CJ-9007-040	

◆◆◆◆◆◆PCB FRONT ASS'Y FOR NC-8011/8015/8016DE◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
D701、D702、D703、D704	DKN4148---	DIODE	IN4148 AUTO 26MM TAPPING	
D705、D706、D708、D711	DKN4148---	DIODE	IN4148 AUTO 26MM TAPPING	
D707	DKN4148---	DIODE	IN4148 AUTO 26MM TAPPING	Only NC-8011DE
D710	DIN4001---	DIODE	IN4001	
HQ703、HQ705、HQ706、HQ707	TZRC111S--	TR CHIP	KRC111S	
HQ708	TZRC111S--	TR CHIP	KRC111S	
HQ709	TZRA111S--	TR CHIP	KRA111S	
HQ710/HQ717	TZRC107S--	TR CHIP	KRC107S	Only PSM MODEL USED
HQ711	TZRC107S--	TR CHIP	KRC107S	Only PSM MODEL USED FOR NC-8011DE
HZ701	DMTZ5R6B--	DIODE ZENER CHIP	UDZ5.6B 17X12	Only NC-8011DE
HZ702	DMTZ3R3B-	DIODE ZENER CHIP	UDZ3.3B 17X12	Only NC-8011DE
IC701	1CA6808F05	IC MICOM	CA6808F(W/O PSM,W/ENCODER)	
IC702	1IL4560D--	IC H/P AMP	IL4560D(SOIC)	
IC703	1R94FC5A--	IC RMC	R94FC5A	
IC704	1SA1117S33	IC REGULATOR	SA1117BH-3.3(SOT-223-3L)	
IC705	1IN74HC164	IC	IN74HC164AD	
J701	F736300013	JACK H/P	TC38-933-01	
R701	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	Only NC-8011DE
R701	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J	Only NC-8015/8016DE
R702	RD-4Z560J-	R CARBON FILM	1/4 56 OHM J	Only NC-8011DE
R702	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J	Only NC-8015/8016DE
LC701	DH93391201	LCD	H93391201PMN	
LD701、LD702	DL314UW5W-	LED	L-314UW5W	
Q701	TZS8550Y--	TR	S8550	Only NC-8011DE
SW701、SW702、SW703、SW704	5S50101Z67A-2	SW TACT	THVV502GAA	
SW705、SW706、SW707、SW708	5S50101Z67A-2	SW TACT	THVV502GAA	
SW709、SW710、SW711、SW712	5S50101Z67A-2	SW TACT	THVV502GAA	
SW713、SW714、SW715、SW716	5S50101Z67A-2	SW TACT	THVV502GAA	
SW717、SW718、SW719	5S50101Z67A-2	SW TACT	THVV502GAA	
X701	5XA32R768CCQ	X-TAL	SF-32.768-JU3820	

◆◆◆◆◆◆PCB USB&AUX ASS'Y FOR NC-8011/8015/8016DE◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
J401	F736300011	JACK H/P	EJ-3511	
J702	9736330600	JACK USB	USB-103 (ANGLE TYPE)	
L702	FLC330K008	COILL CHOKE	NPK0406-330K	

◆◆◆◆◆◆PCB TUNER ASS'Y FOR NC-8011/8015/8016DE◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
CF001	SFU455B---	FILTER CERA	SFU455B	

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APPENDIX - ELECTRICAL PART LIST

CF002	5PLT107MA5	FILTER CERA	LT10.7MA5(SZ)
CF003	FP107MG77-	FILTER CERA	JT107MG77
D001、D002	DZN4148---	DIODE	1N4148 AUTO 52MM
DZ001	DKTZ4R7B--	DIODE ZENER	UZ-4.7B 26MM TAPPING
HQ013、HQ014	TZRA111S--	TR CHIP	KRA111S
HQ015、HQ016	TZRC111S--	TR CHIP	KRC111S
IC101	1TA2111N--	IC	TA2111N
IC102	1SA1117S33	IC REGULATOR	SA1117BH-3.3(SOT-223-3L)
IC700	1CS9255---	IC	CS9255
L001	FLA139K005	COIL FM ANT	5mm X 0.8mm X 4.5T(1.3uH)
L002	FLR119K001	COIL FM RF	5mm X 0.8mm X 3.5T(1.1uH)
L003	FLO838K002	COIL FM OSC	5mm X 0.8mm X 2.5T(0.83uH)
L008	F110AYW001	IFT AM	TF10-19
L009	FLO361K003	COIL AM OSC	ML10-37B
L011	FLA361K012	COIL AM ANT	IFT-7SB-4251-00-LF
L012	FCPZ561K01	COIL PEAKING	AL0305-561K-LF
PC101	FC134P001D	PVC	TU-CAP 20-126P 20X20A
Q002、Q003	TZS9018H--	TR	S9018H(TO-92)
Q004	TZSK544E--	TR	2SK544E-AC
Q005	TZS8550Y--	TR	S8550
Q006	TZTC8050-D	TR	KTC8050-D
VR701	5SH1224375	SW ENCORDER	RE0123PVB25FINB 1-2-24 PCE
X702	5XA32R768CCQ	X-TAL	SF-32.768-JU3820

◆◆◆◆◆◆PCB MP3CD ASS'Y FOR NC-8011/8015/8016DE◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
D500	DIN4001---	DIODE	IN4001	
D501、D502	DIN4001---	DIODE	IN4001	Only NC-8011DE
D501、D502	W581GY12J5	WIRE JUMPER	AWG22 1/0.65 SN 12.5 AUTO	Only NC-8015/8016DE
HQ500	TZTA1504S-	TR CHIP	KTA1504S	
HQ508	TZRC107S--	TR CHIP	KRC107S	
HQ503、HQ504、HQ509	TZTC3875S-	TR CHIP	KTC3875Y	
IC500	1M5675----	IC	M5675	
IC501	1EN25F20--	IC FLASH	EN25F20	
IC502	1SA5888---	IC MOTOR DRIVER	SA5888	
IC504	1CW7805---	IC	CW7805	Only NC-8011DE
Q500、Q507	TZTA1273Y-	TR	KTA1273Y (A966Y) (KSA928A-Y) (STB1277Y)	
Q501	TZS8550Y--	TR	S8550	
X500	5PQZTT1693	RESONATOR CERA	QTTT16.93MMX(3PIN)	

◆◆◆◆◆◆PCB POWER ASS'Y FOR NC-8011DE◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
CC901	CLYL2G472M	C LINE ACROSS	DE1307E 472M VA1-KC（FORMING）	
FC979、FC980、FC981、FC982	9734600800	HOLDER FUSE CLIP	PI5.2 - REEL	
F980	5FSGB4012L	FUSE GLASS TUBE	VDE TL 400MA 250V MF51	
F981	5FSGB8012L	FUSE GLASS TUBE	VDE TL 800MA 250V MF51	
PT903	5TP0066F78	TRANS POWER	EI=66X30 127V/230V 60/50Hz	
PT980	5TP8028985	TRANS POWER	EI=28X12 230V/50HZ	Only PSM MODEL USED
D980、D981、D982、D983、D985	DIN4001---	DIODE	IN4001	Only PSM MODEL USED
Q981	TZTC3205Y-	TR	KTC3205Y (KTC2236Y) AUTO	Only PSM MODEL USED
R981	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J	Only PSM MODEL USED
R982、R983	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Only PSM MODEL USED
RY980	5SC2001A01	SW RELAY	SDT-S-105LMR	Only PSM MODEL USED
R980	RN-2Y475J-	R METAL FILM	1/2 4.7M OHM J	
RF982、RF983	RF01F4780J-32	R FUSIBLE	1W 0.47 OHM J (32倍)	
SW901	5S30102377-1	SW VOLTAGE SELE	ZH-06-01	DUAL VOLTAGE SWITCH OPTION

◆◆◆◆◆◆PCB SMPS ASS'Y FOR NC-8015/8016DE◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
CM901	CMXK2G333J	C MYLAR	0.033uF/400V NON INDUCTIVE	
CM906	CMXK2J472K	C MYLAR	630V/472K	
CX901	CL1BB3474K	C CERA (X-CAP)	275V 474(X-CAP)	
D904	DGBU606---	DIODE(Bridge)	GBU606	
D905	DP6KE200A-	DIODE(TVS)	P6KE200A	
D908	DMBR20200C	DIODE(UFR)	MBR20200CT	
D909	DKN4148---	DIODE	IN4148 AUTO 26MM TAPPING	
D910、D915、D918	DHER108G--	DIODE(UFR)	HER108G(UF4007)	
D923、D924	DHER108G--	DIODE(UFR)	HER108G(UF4007)	
D911	DSR5A0----	DIODE	SR5A0	
D912	DSR106----	DIODE(Schottky)	SR106	
D913	DSR504----	DIODE	SR504	
D914	DUF5404---	DIODE	UF5404	
DZ903	DP6KE200A-	DIODE(TVS)	P6KE200A	

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APPENDIX - ELECTRICAL PART LIST

DZ911	DZTZ22B---	DIODE(Zener)	UZ22BSB	Only NC-8015DE
DZ911	DZTZ30B---	DIODE(Zener)	UZ30BSB	Only NC-8016DE
DZ912	DZTZ5R1B--	DIODE(Zener)	UZ5.1BSB	Only NC-8015DE
DZ912	DZTZ3R6B--	DIODE(Zener)	UZ3.6BSB	Only NC-8016DE
DZ913、DZ914	D1N5246B--	DIODE(ZENER)	IN5246B	
F901	5FFPS5022S	FUSE	250V 5.0A TL	
IC901	1TNY280PN-	IC	TNY280PN	
IC902	1TL431A---	IC(Shunt Regulator)	TL431	
IC904	1TOP250Y--	IC(Switching)	TOP-250Y	
IC909、IC912、IC913	1ET1103---	IC(Photocoupler)	ET1103/PC-17K1-BB	
IC910	1S7909PI--	IC	S7909PI	
IC911	1CW7809---	IC	CW7809	
L904、L908	5LC459K872	COIL CHOKE	SPC555, 4.5uH/6A	
L905	5LF203N865	COIL LINE FILTER	KS-2930A1 LINE FILTER	
L906	5LC369K875	COIL CHOKE	SPC548, 3.6uH(10A)	
PT901	5TMW028976	TRANS POWER	DAT-2828T1 (MAIN)	
PT902	5TMW040978	TRANS POWER	DAT-4042A1	Only NC-8015DE
PT902	5TMW040F02	TRANS POWER	DAT-4042F02	Only NC-8016DE
Q901、Q905	TZTC3198Y-	TR	KTC3198Y (2SC5343) AUTO	
Q902	TP45N03LTG	FET	P45N03LTG	
Q903	TZTA1274Y-	TR	KTA1274Y	
Q904	TKTD1691--	TR	KTD1691-Y	
R910	RN-2Y105J-	R SURGE	1/2 1M OHM J	
R912、R913、R924、R925	RS02Y683J-	R M-OXIDE FILM	2W 68K OHM J	
R914、R921	RS01Y180J-	R M-OXIDE FILM	1W 18 OHM	
R923	RS01Y222J-	R M-OXIDE FILM	1W 2.2K OHM J	
R941	RS01Y104J-	R M-OXIDE FILM	1W 100K OHM J	
TH901	DNTC-3D15F	THERMISTER	NTC-3D15F	
VA901	D1NR10D471	VARISTOR	1NR10D471	

*** END OF REPORT ***

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