Service Manual

Mini Component Sound System

Model : NC-8112E/NC-8114E/NC-8115E/NC-8117E

S/N : FCD8308000



DAEWOO DAT CO., LTD.

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Mini component sound system

NC-8112E/NC-8114E/NC-8115E/NC-8117E

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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.

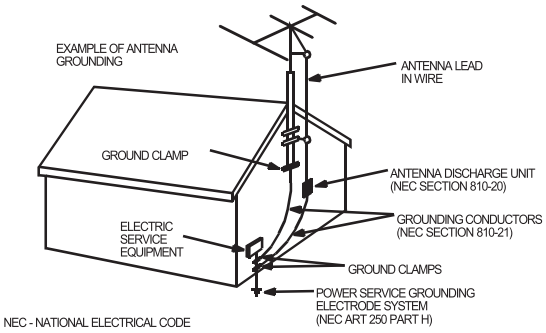
PORTABLE CART



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

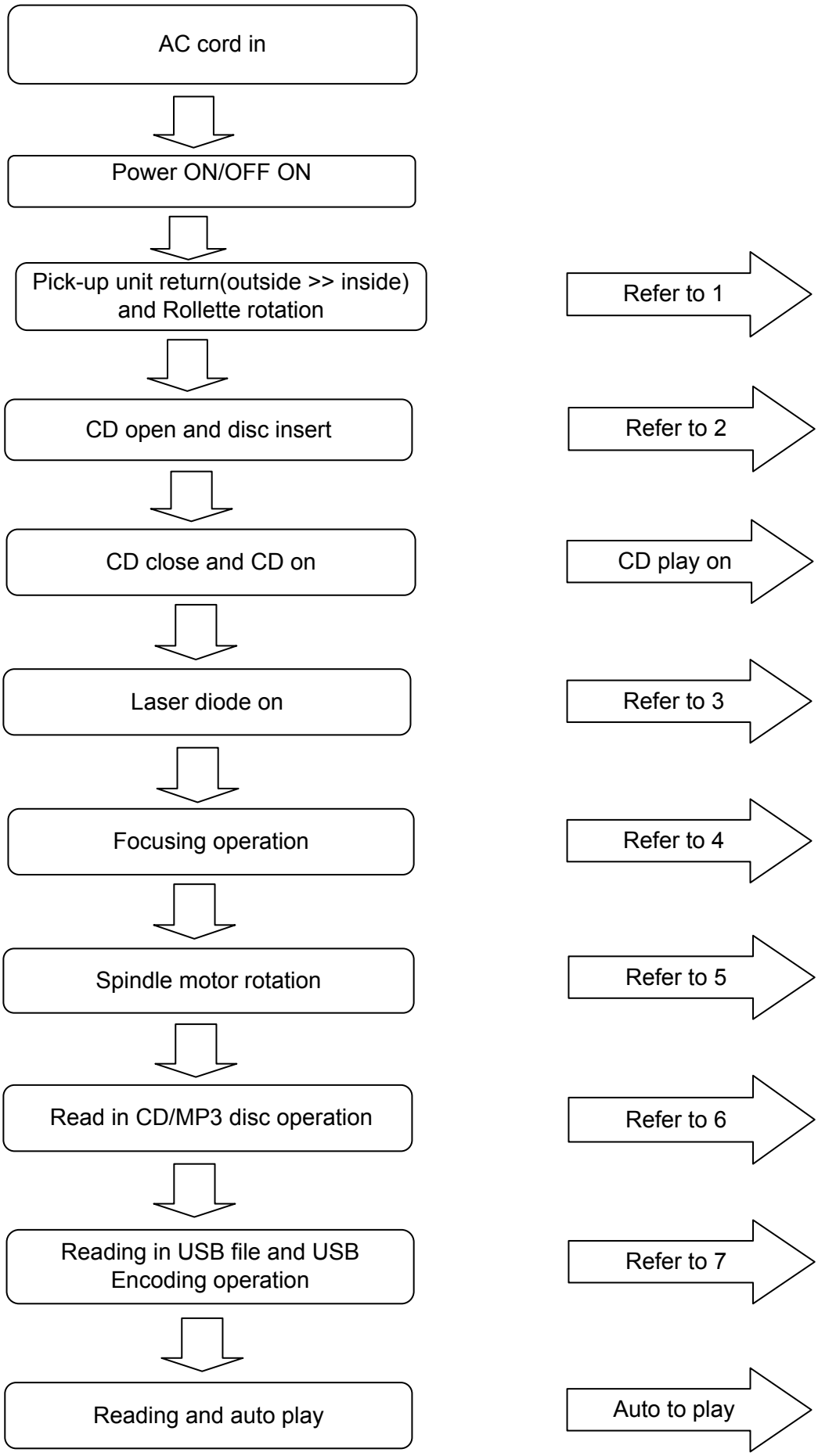
d) The appliance does not appear to operate normally or exhibits a marked change in performance; or

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

● MP3/CD Section



2

● MP3/CD Section

1. Pick-up unit return

AC cord in

Yes

Power ON/OFF ON — no →
1.Check CN700
2.Check IC701 of 33pin/40pin:3.3V
3..Check IC707(MCU IC) of 32pin:(main power on)

Yes

Function to CD and Initializing CD — no →
1.Check CN704
2.Check IC707(MCU IC) of 23/24/25/26/27/28pin
3.Check IC705 of 5/12/13pin
4. Check CN502,CW504.CN505
5. Check IC504 of 3pin:5.0V
6. Check Q501 collector:+3.3V
7. Check +3.3V (IC500 pin8/18/23/25/38/57/85 /113/116/122)
8. Check (IC502 SA5888 of 17pin and 18pin)SP+ 4.41V , SP- 3.41V
9. Check SPDO +1.90V (IC500 M5675 pin123)
10. Check (IC502 SA5888 of 12pin and 11pin) SL- 3.81V, SL+ 3.91V
11. 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

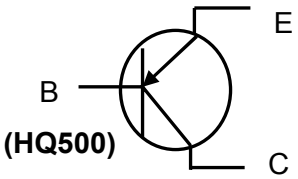
CD close and cd on — no →
1. Check CN505 of 3pin.
2. Check IC502 SA5888 of 9pin

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



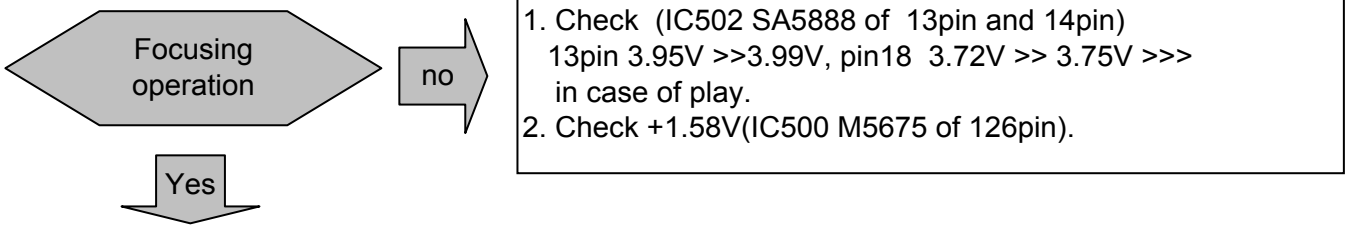
(HQ500)

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

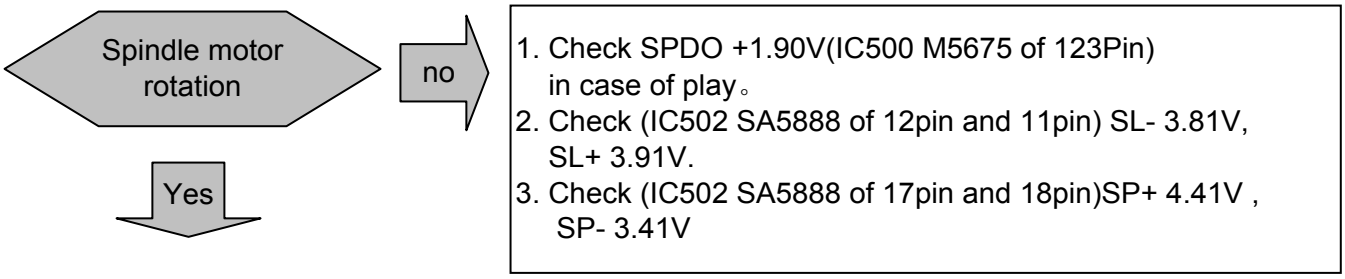
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● MP3/CD Section

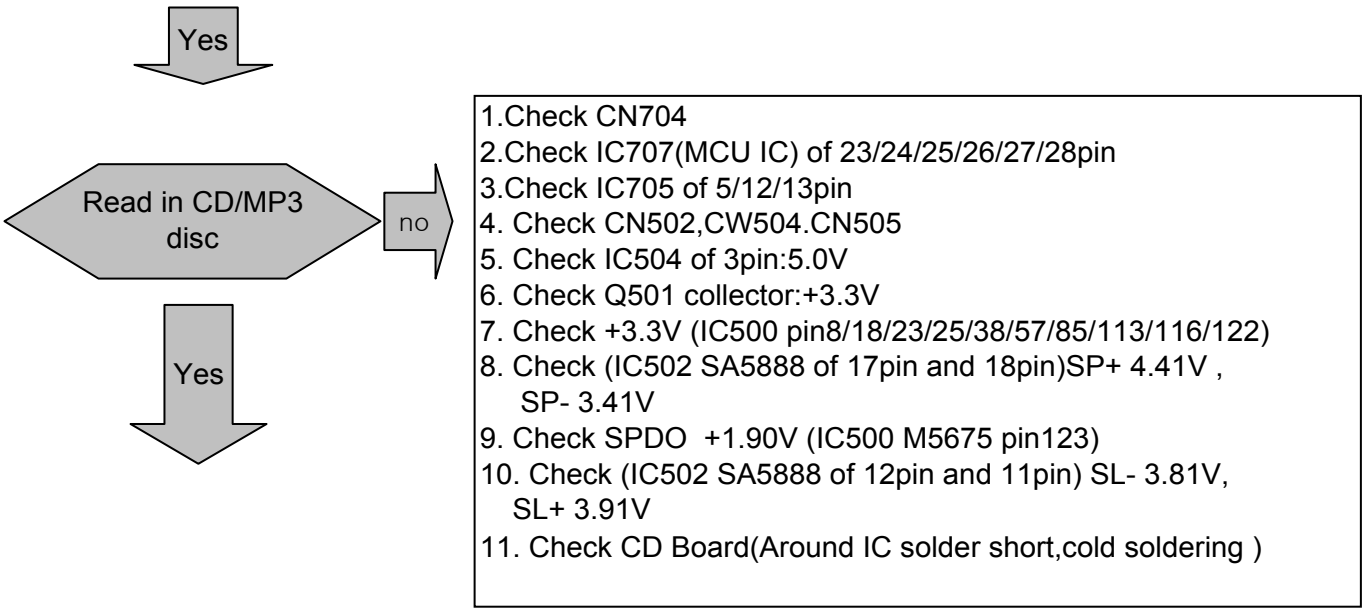
4. Focusing operation



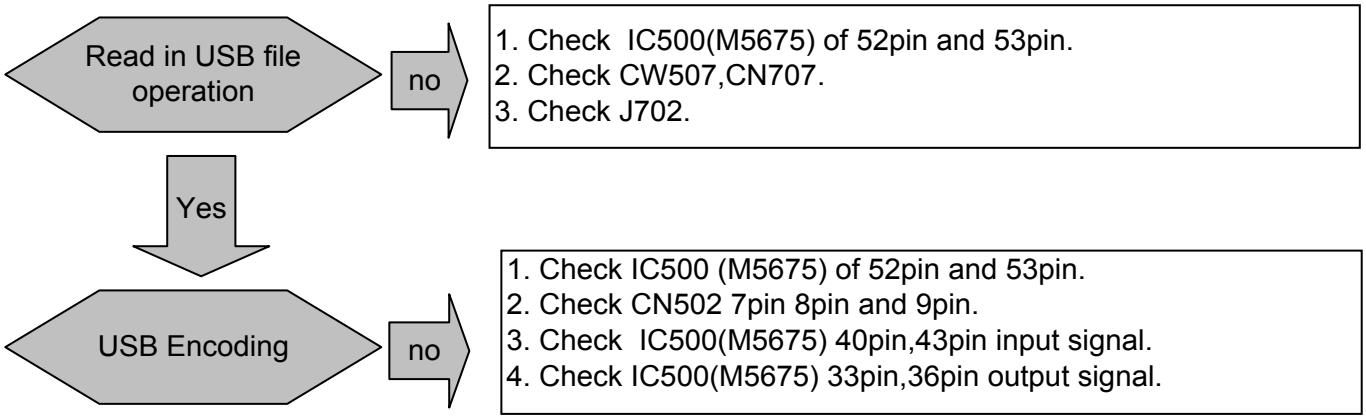
5. Spindle motor rotation



6. Read in CD/MP3 disc operation



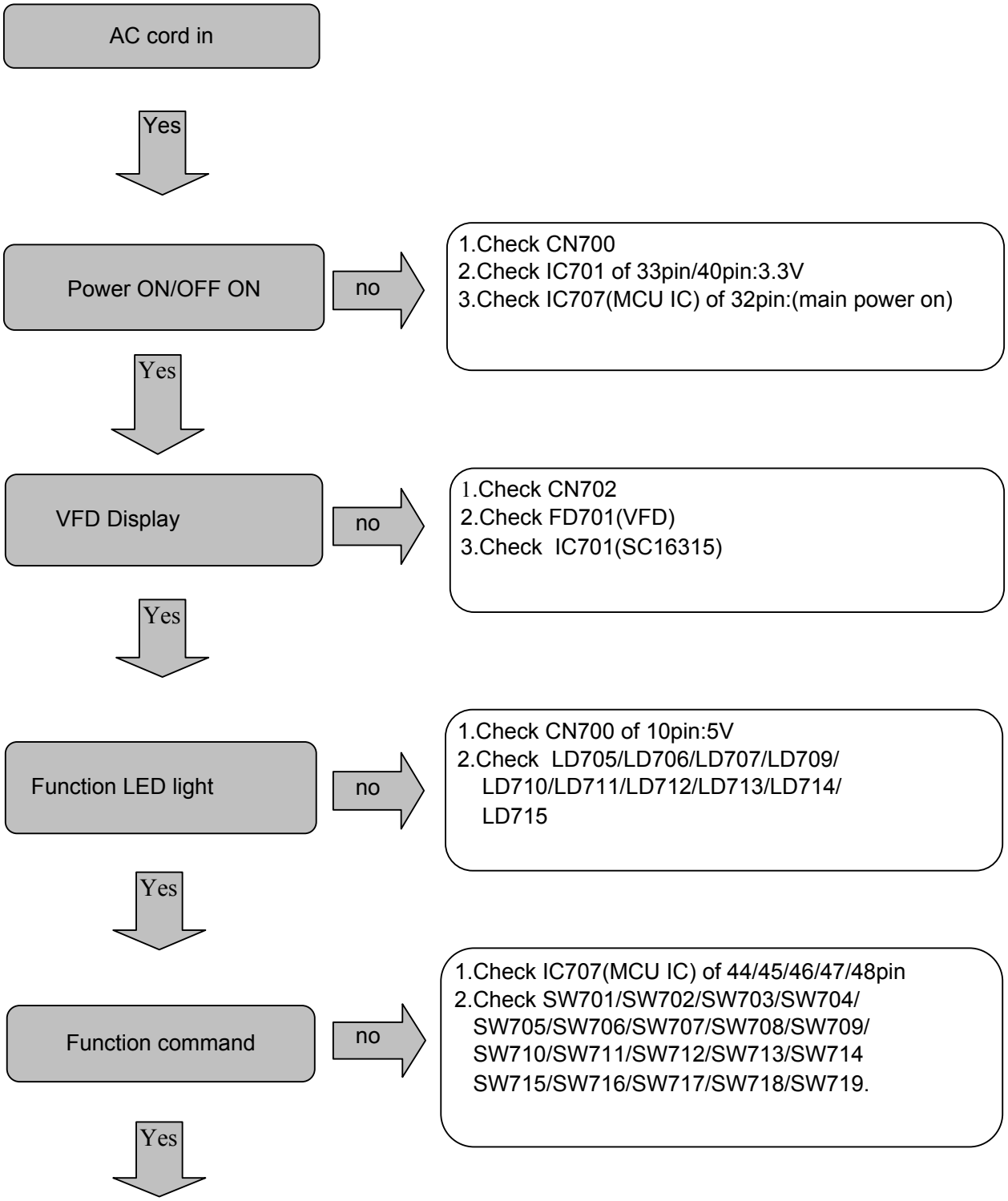
7. Read in USB file and USB Encoding operation



Trouble Shooting Guide

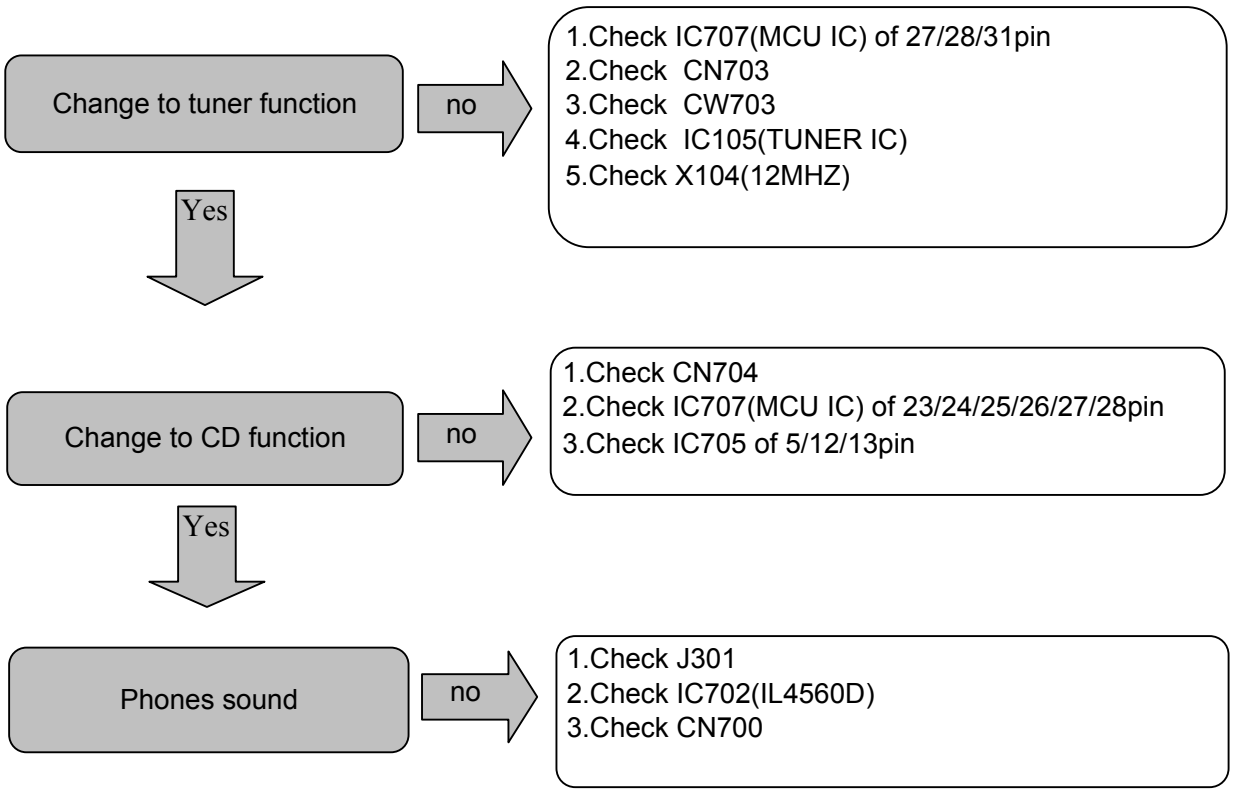
● Front & Tuner Section

2



2

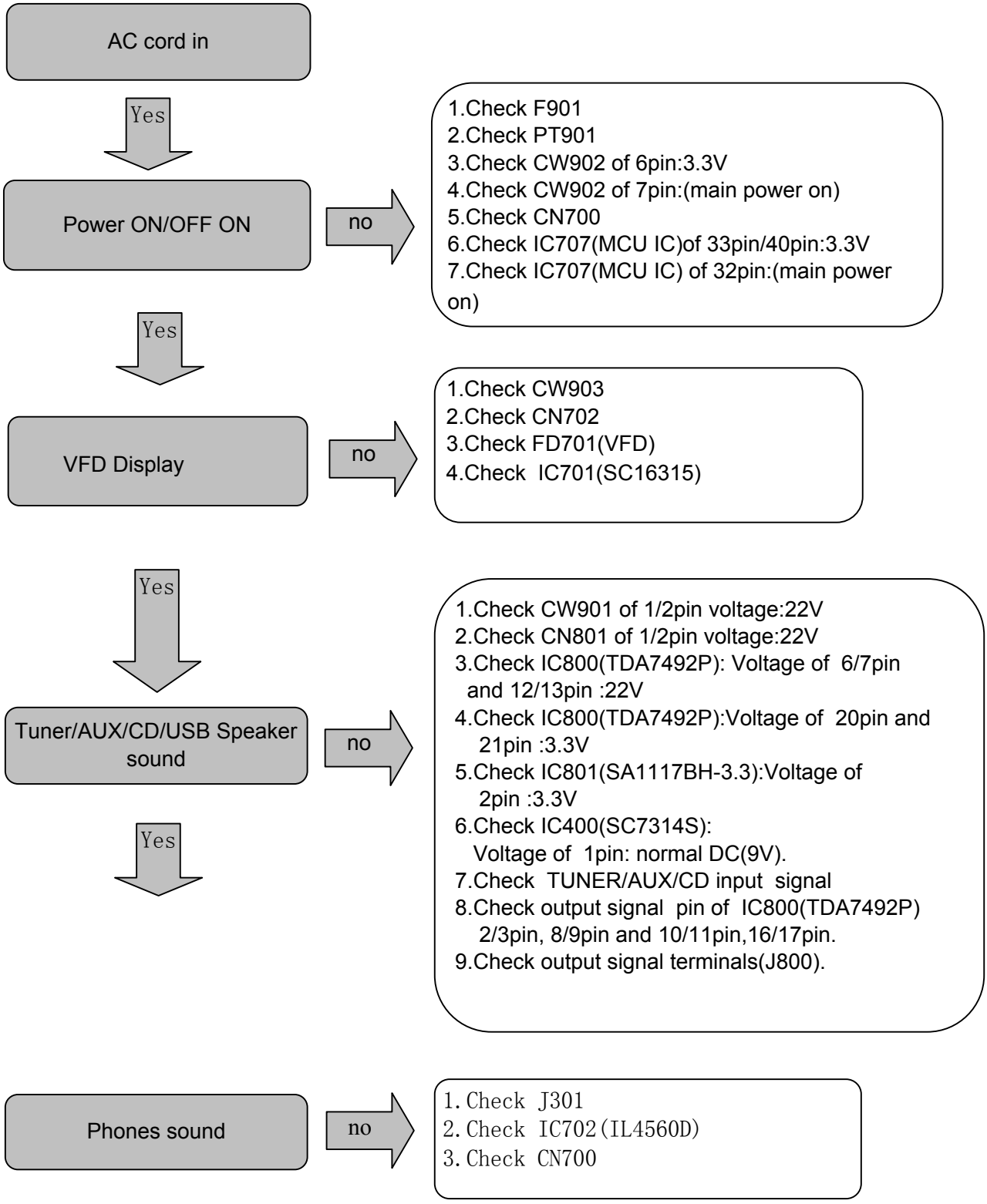
● Front & Tuner Section



Trouble Shooting Guide

● SMPS & AMP Section (Only NC-8112E Model)

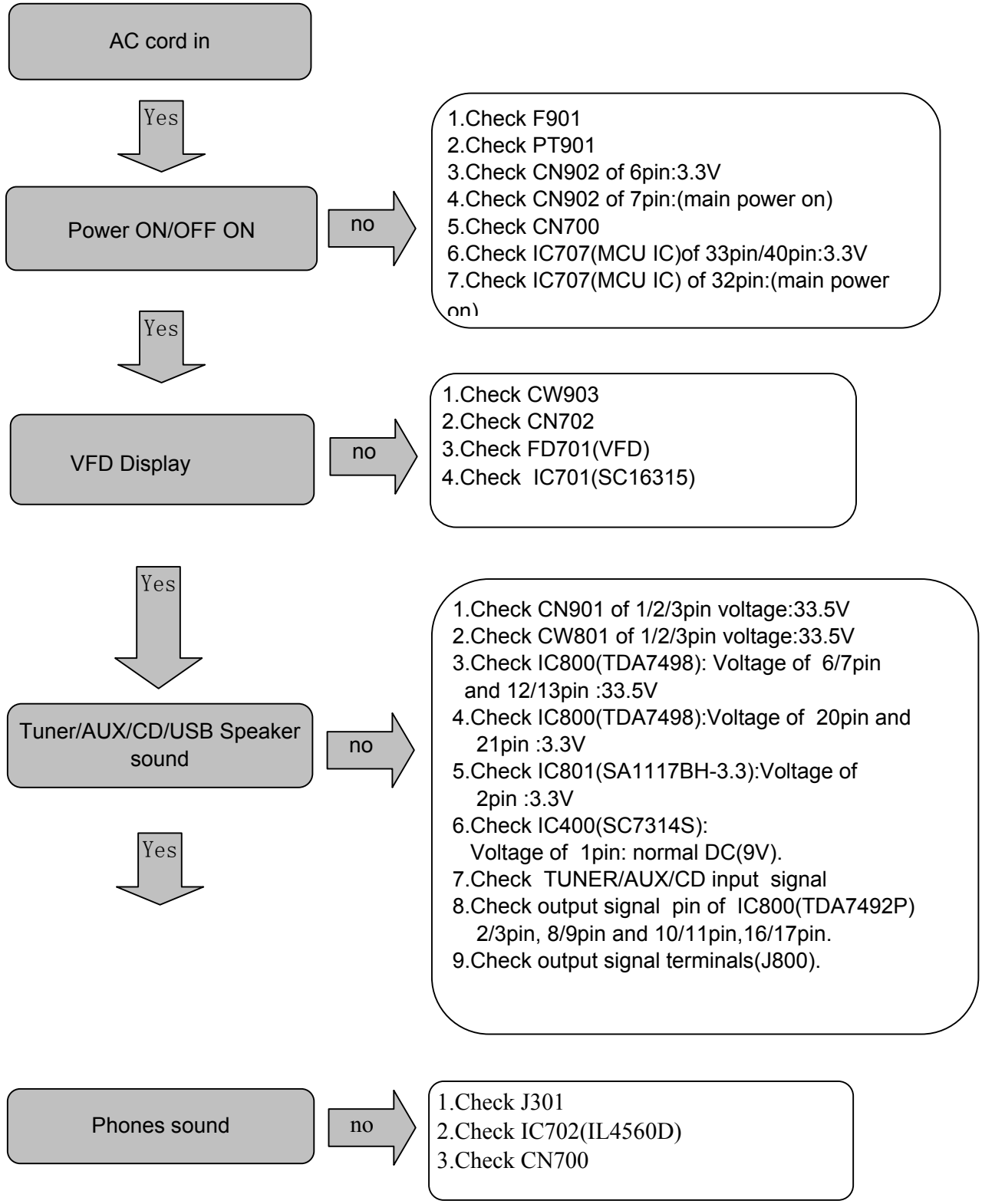
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Trouble Shooting Guide

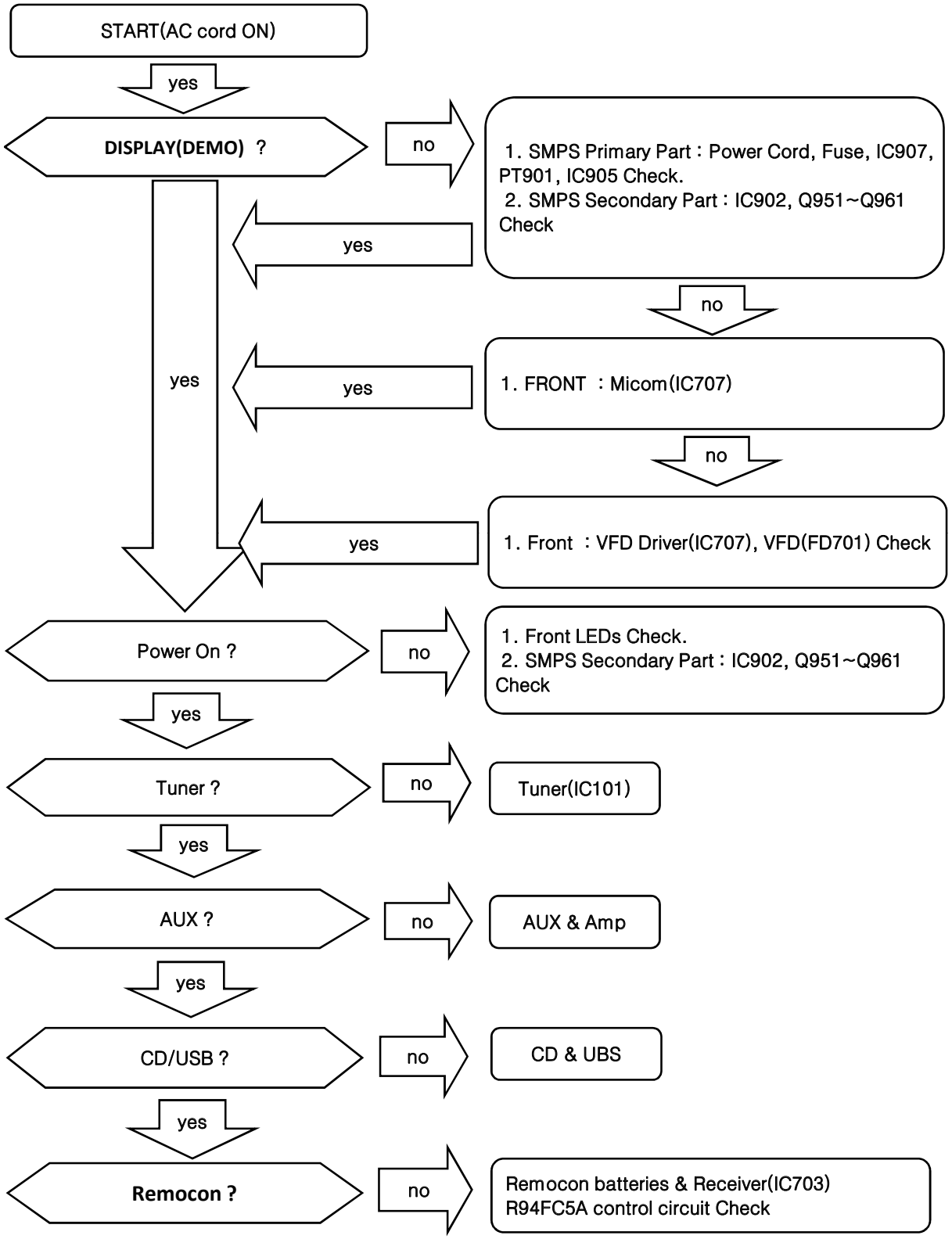
● SMPS & AMP Section (Only NC-8114E/NC-8115E Model)

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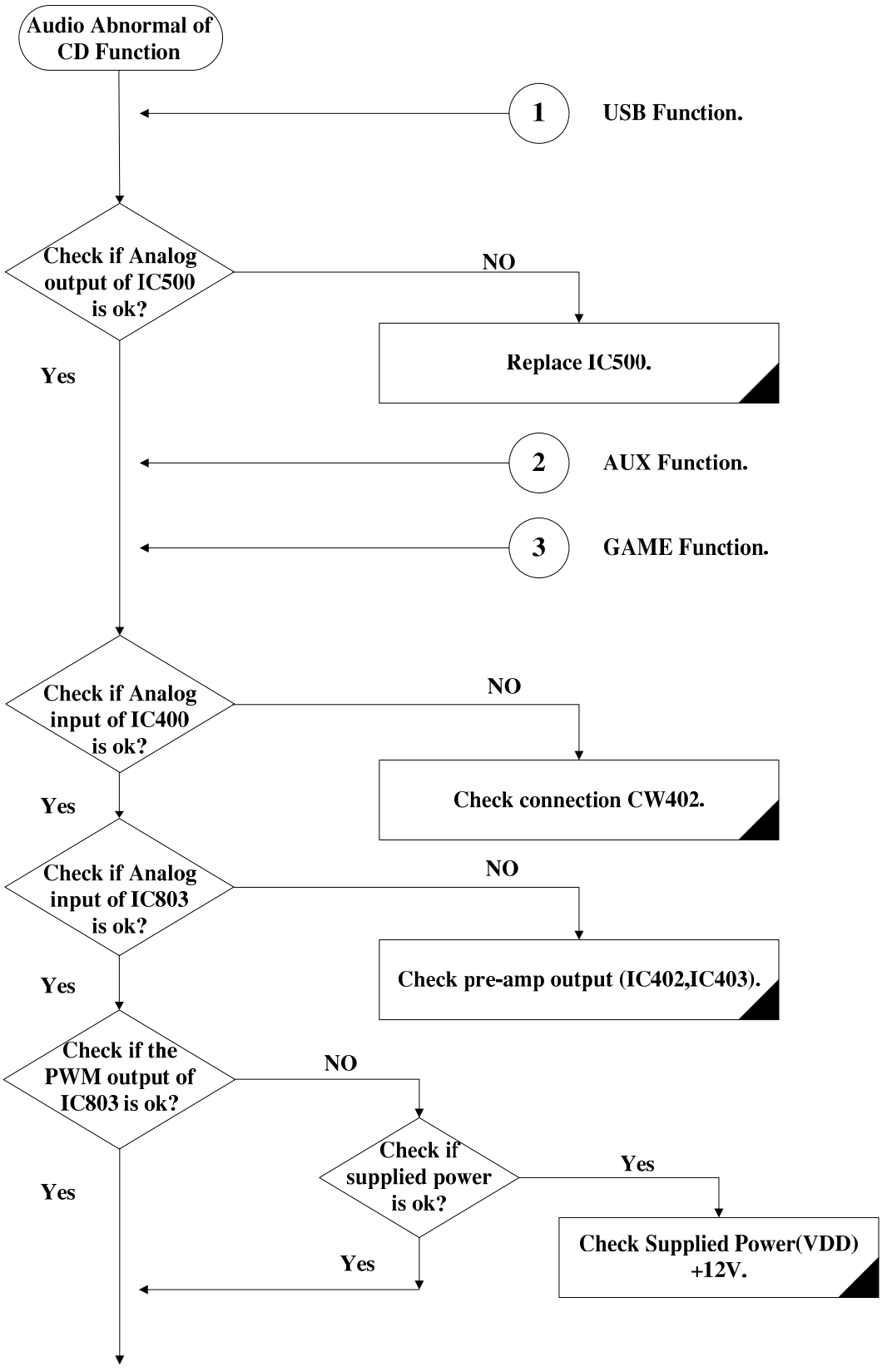
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● SMPS & AMP Section (Only NC-8117E Model)



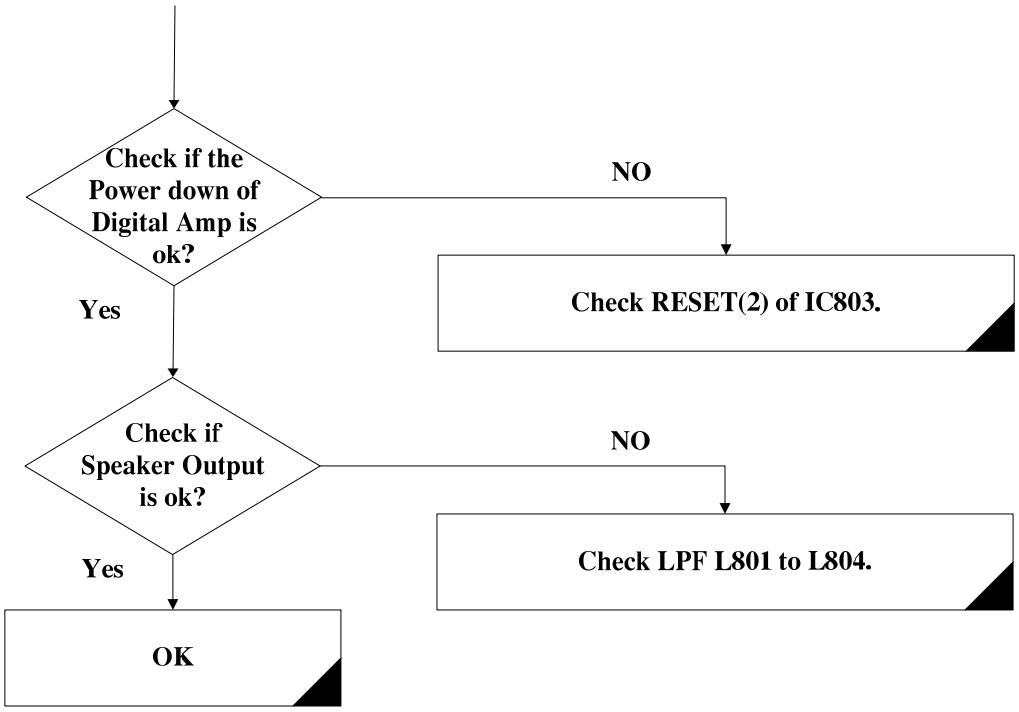
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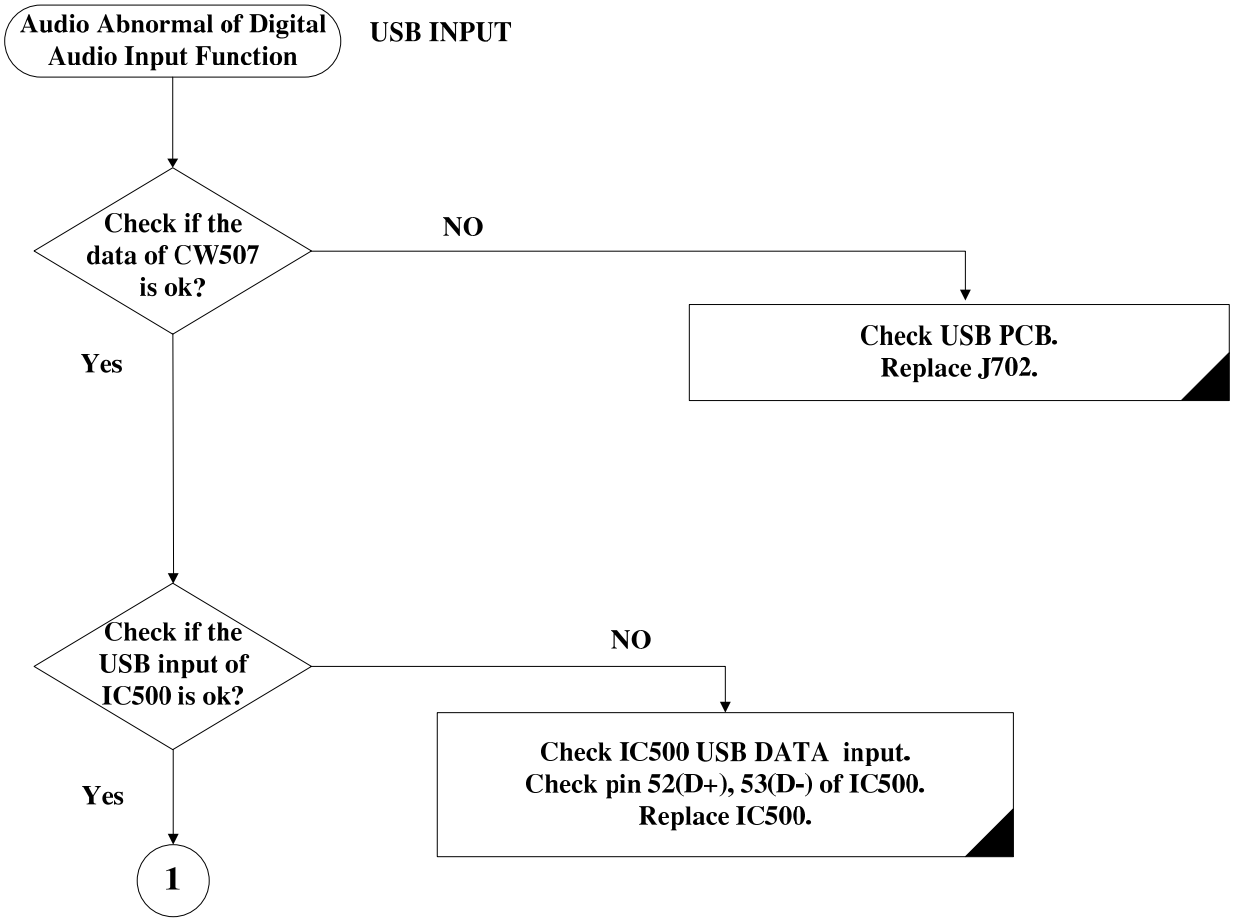
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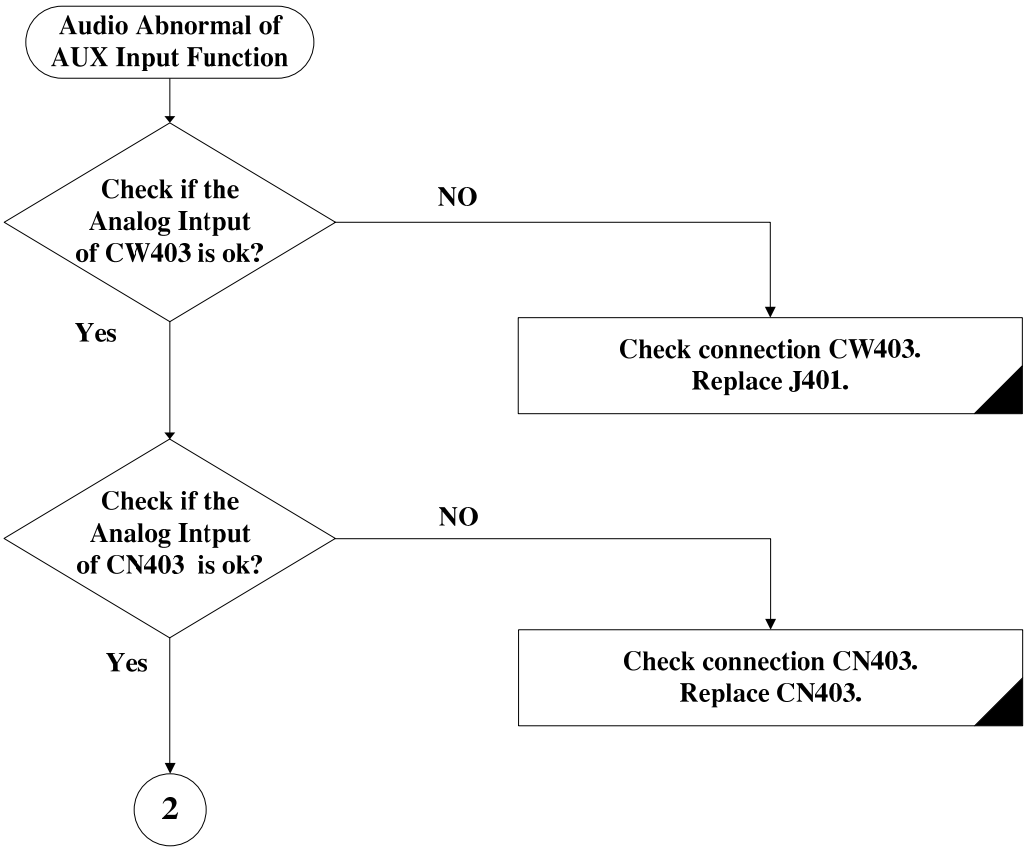
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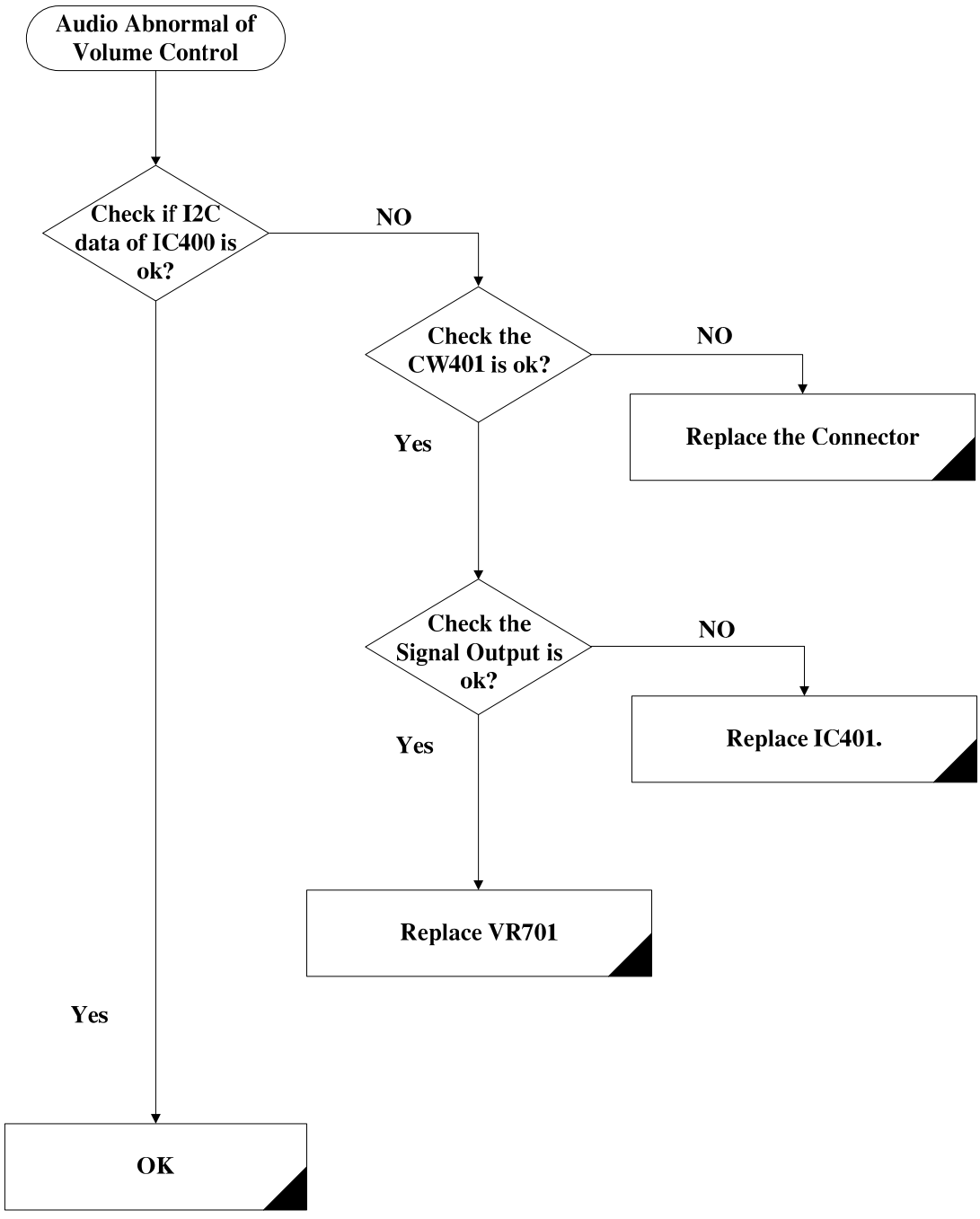
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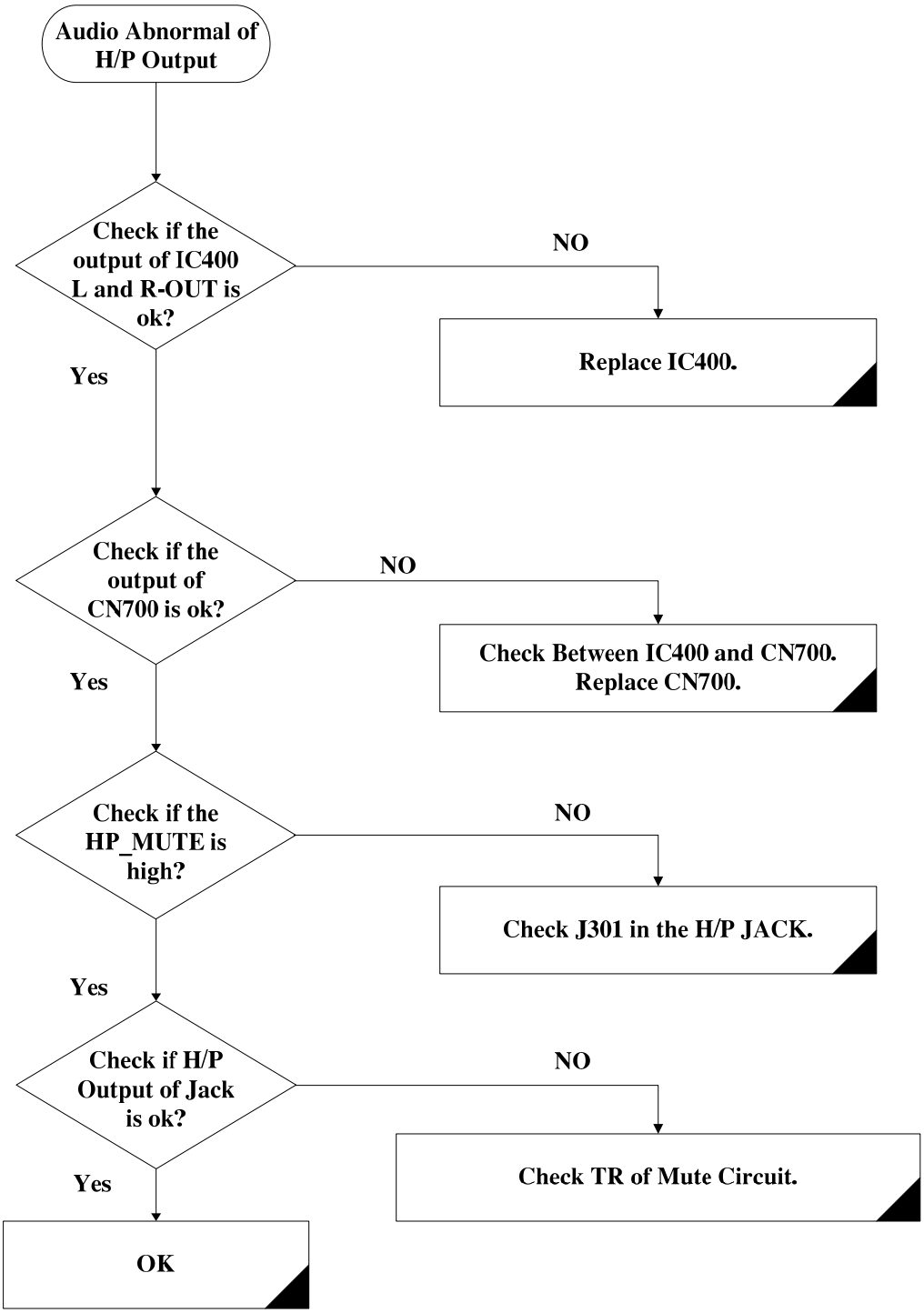
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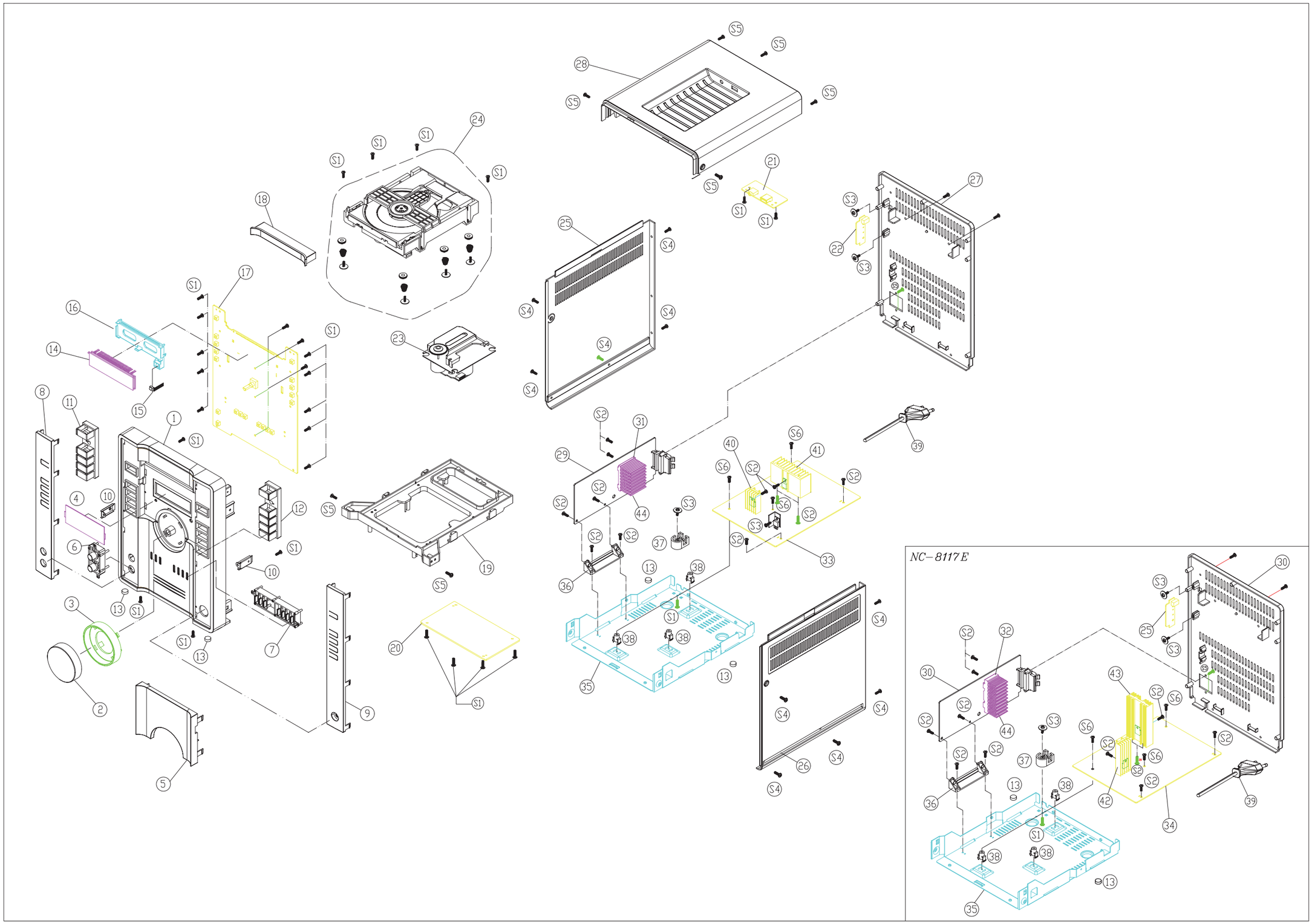
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● SMPS & AMP section (Only NC-8117E Model)



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	9CD0323500	HIPS	1	
2	KNOB VR	9CD1370910	HIPS	1	
3	DECO RING	9CD1019600	HIPS	1	
4	FILTER VFD	9CD4701510-04	PMMA (CLEAR PINK) / 1.2T	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 Φ		
14	VFD	DHNA11SS71	HNA-11SS71	1	
15	IC RMC	1R94FC5A--	R94FC5A 10*T3.0	4	
16	GUIDE VFD	9CD2509800	ABS BLACK	1	
17	FRONT PCB	FCD6501240		1	
18	DOOR CD	9CD1819800	HIPS	1	
19	BRACKET CD DECK	9CD2421601	HIPS	1	
20	CD (MP3) PCB	FCD6501040		1	
21	USB & AUX PCB	FCD6501241		1	
22	TUNER PCB	FCD6501300		1	
23-1	CD- PICK UP	FCD6014000	EM101RNS	1	RVER BRIGHT
23-2	CD- PICK UP	9CD6014200	DA11VZ SANYO	1	SANYO
24	CD DECK	9CD6016800	8210D	1	ASA
25	COVER SIDE L	9CD04262L0	HIPS	1	
26	COVER SIDE R	9CD04262R0	HIPS	1	

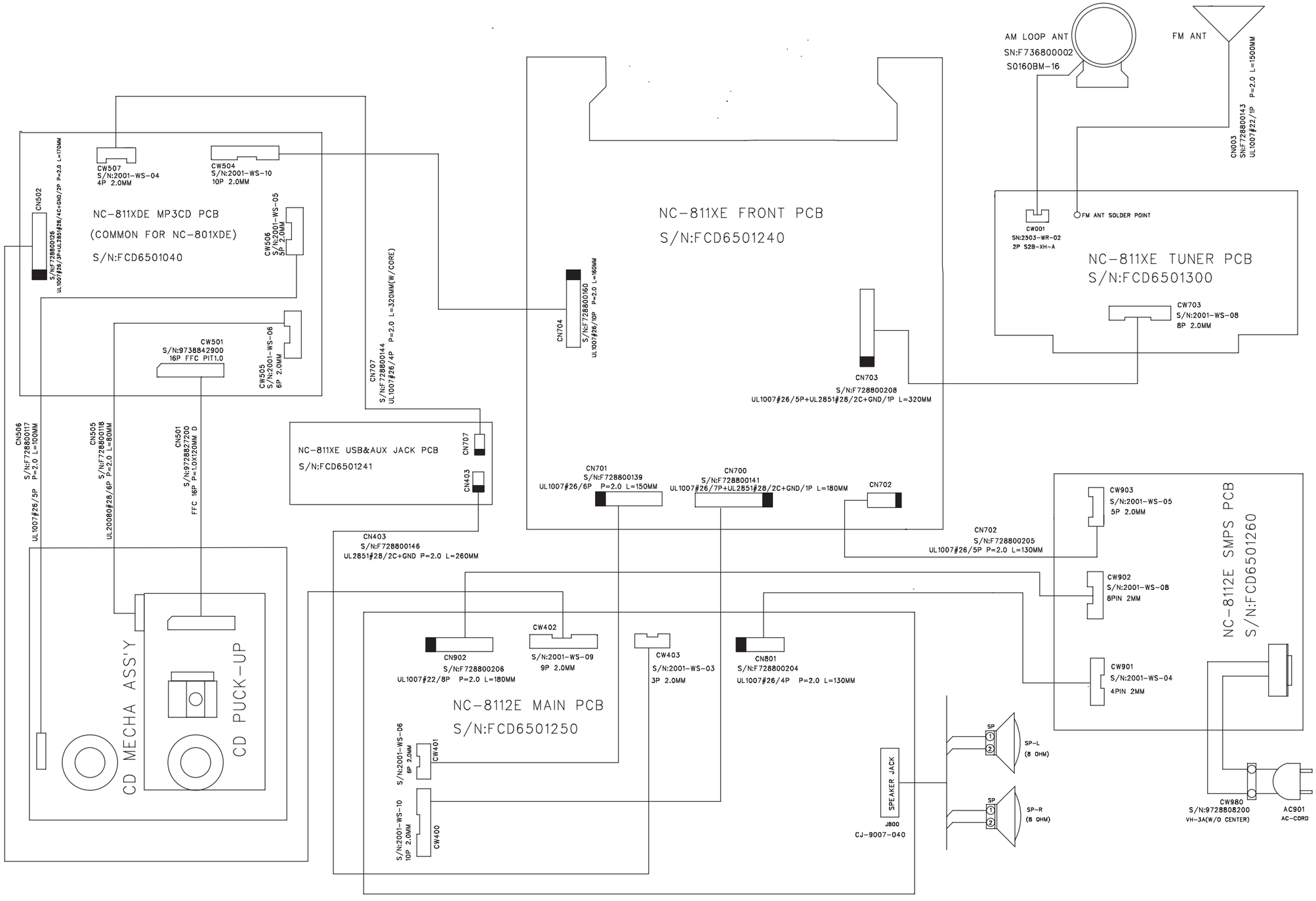
No.	PARTS NAME	CODE NO.	DESCRIPTIONS	Q'TY	REMARKS
27	COVER BACK	9CD0426110	HIPS	1	
28	COVER TOP	9CD0426000	HIPS	1	
29	MAIN PCB	FCD6501250	NC-8112E	1	
30	MAIN PCB	FCD6501310	NC-8114E/NC-8115E	1	
31	MAIN PCB	FCD6501290	NC-8117E	1	
32	HEAT SINK AMP	9CD4415710	AL EXT	1	NC-8114E /NC-8115E
33	HEAT SINK AMP	9CD4416400	AL EXT	1	NC-8117E
34	SMPS PCB	FCD6501260	NC-8112E	1	
35	SMPS PCB	FCD6501270	NC-8114E/8115E	1	
36	SMPS PCB	FCD6501280	NC-8117E	1	
37	CHASSIS BOTTOM	9CD0618000	SECC T0.8	1	
38	BRACKET PCB AMP	9CD2422400	HIPS	1	
39	HOLDER AC CORD	9CD2303300	HIPS	1	
40	SUPPORT PCB 12	9CD2507401	HIPS	3	
41	AC CORD	F736909020	2X0.75mm2 L=1.85M	1	OPTION
42	HEATSINK S1	9CD4412800	AL EXT	1	NC-8114E /NC-8115E
43	HEATSINK SMPS	9CD4414410	AL EXT	1	NC-8114E /NC-8115E
44	HEAT SINK S1	9CD4411210	AL EXT	1	NC-8117E
45	HEAT SINK SMPS IC	9CD4415900	AL EXT	1	NC-8117E
S1	SCREW TAPPTITE	7173301011	TT2 BIN 3X10 MFZN	28	
S2	SCREW TAPPTITE	7173300811	TT2 BIN 3X8 MFZN	12	
S3	SCREW WASHER	9CD3102400	TT2 WAS 3X10+D14 MFZN	3	
S4	SCREW TAPPTITE	7173301011	TT2 BIN 3X10 BK	19	
S5	SCREW TAPPTITE	7173301211	TT2 BIN 3X12 BK	4	
S6	SCREW TAPPTITE	7173301411	TT2 BIN 3X14 MFZN	3	

3

Wiring Diagram

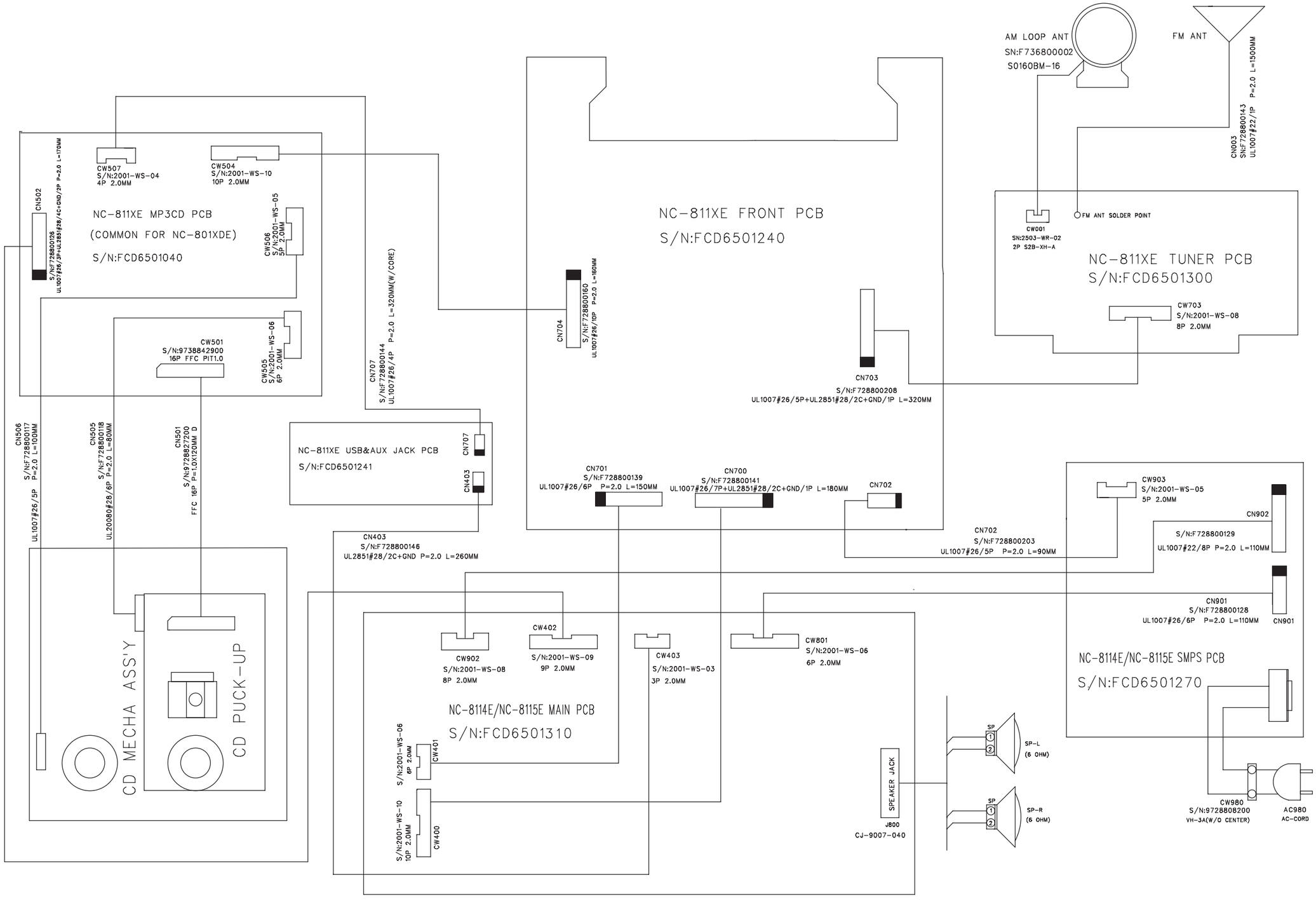
- Only NC-8112E Model

4



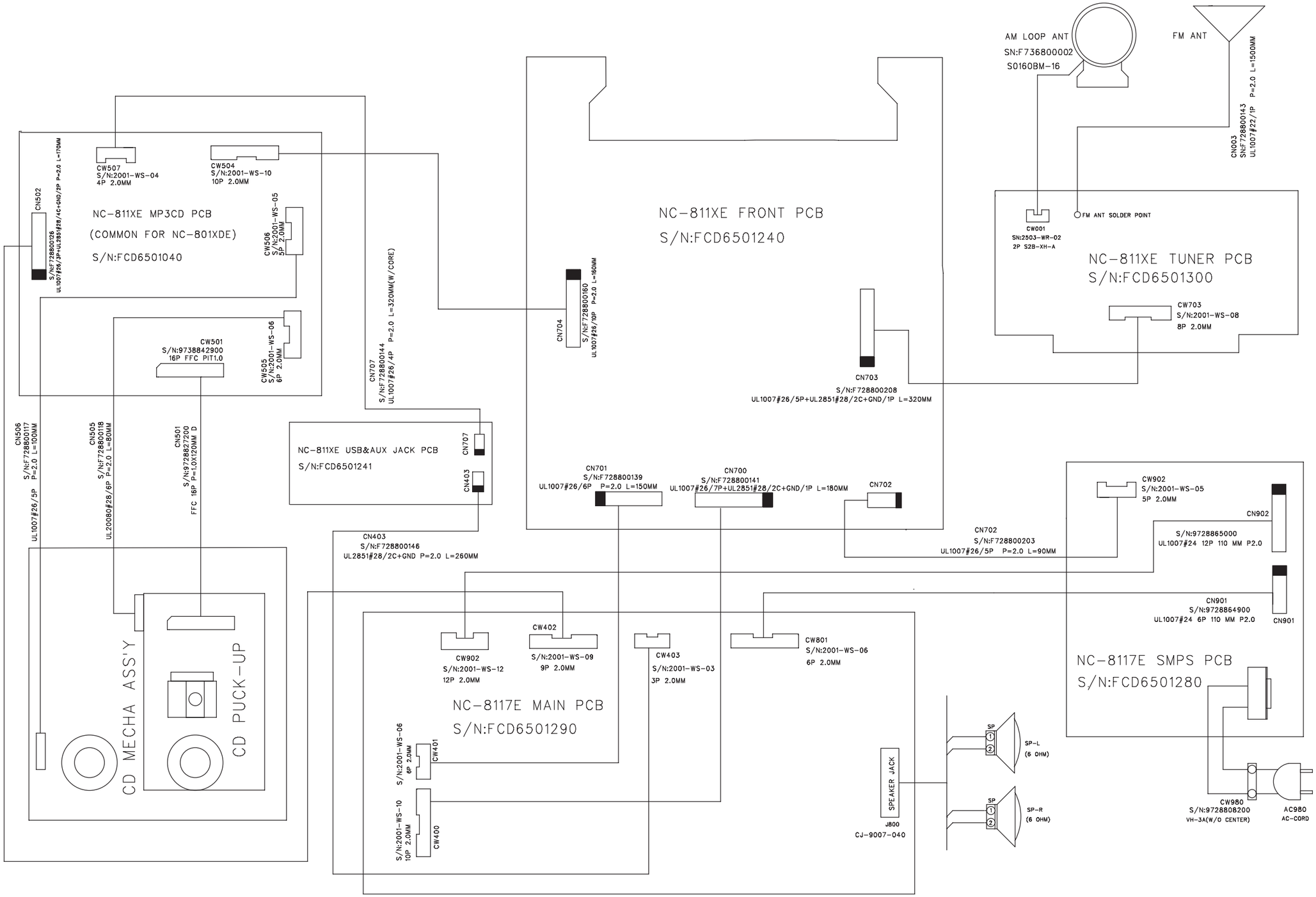
Wiring Diagram

- Only NC-8114E/NC-8115E Model



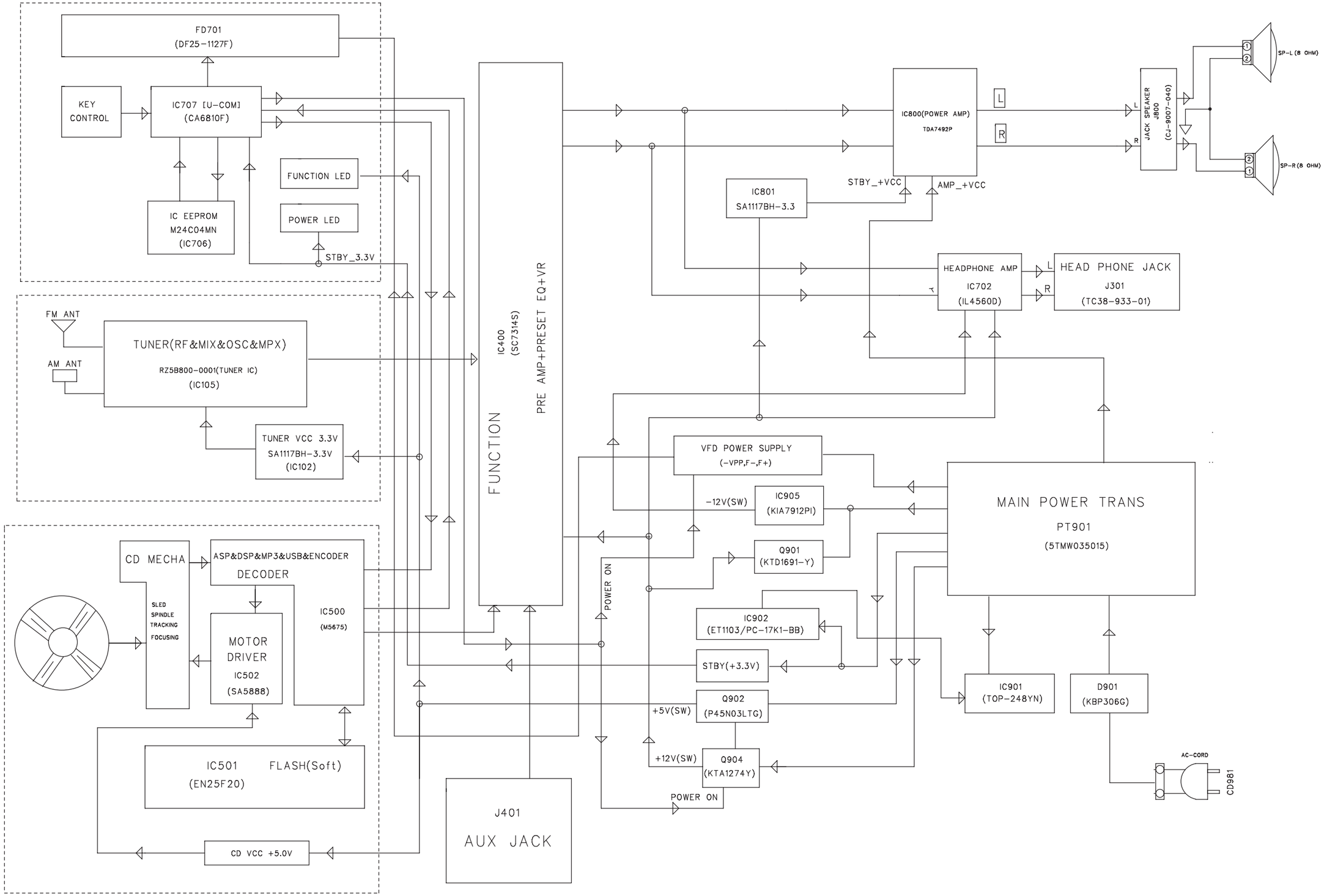
Wiring Diagram

- Only NC-8117E Model



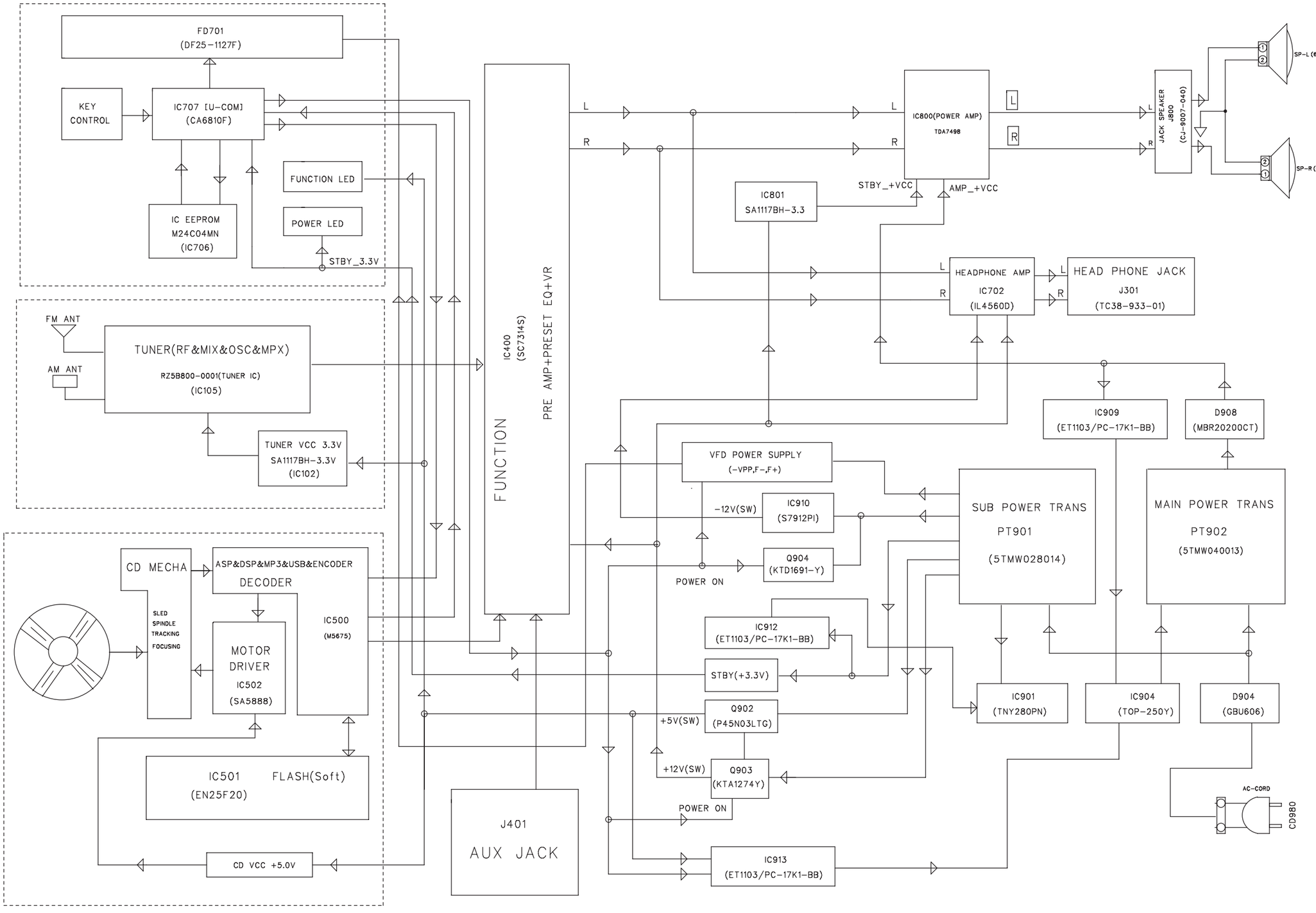
Block Diagram

- Only NC-8112E Model



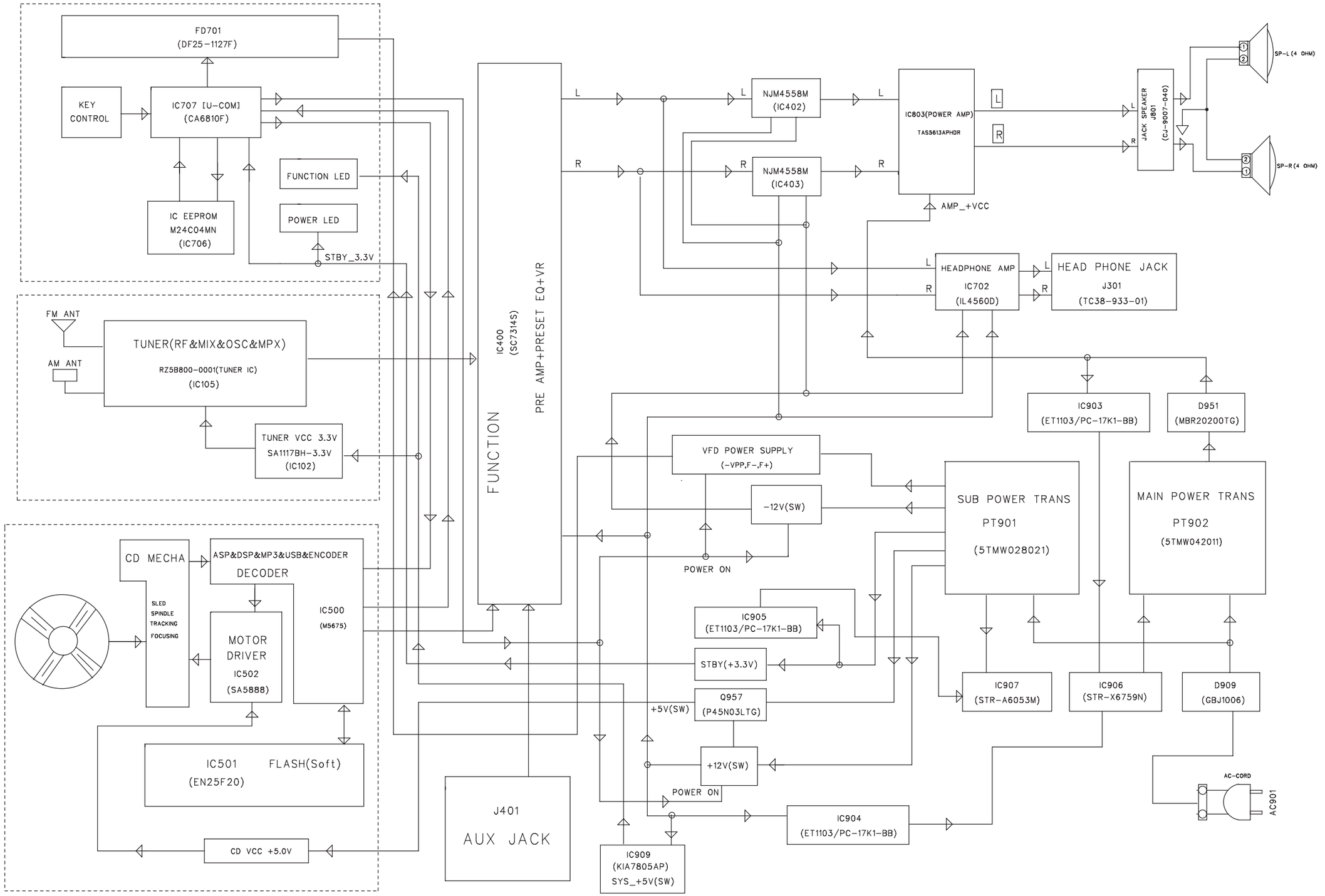
Block Diagram

- Only NC-8114E/NC-8115E Model



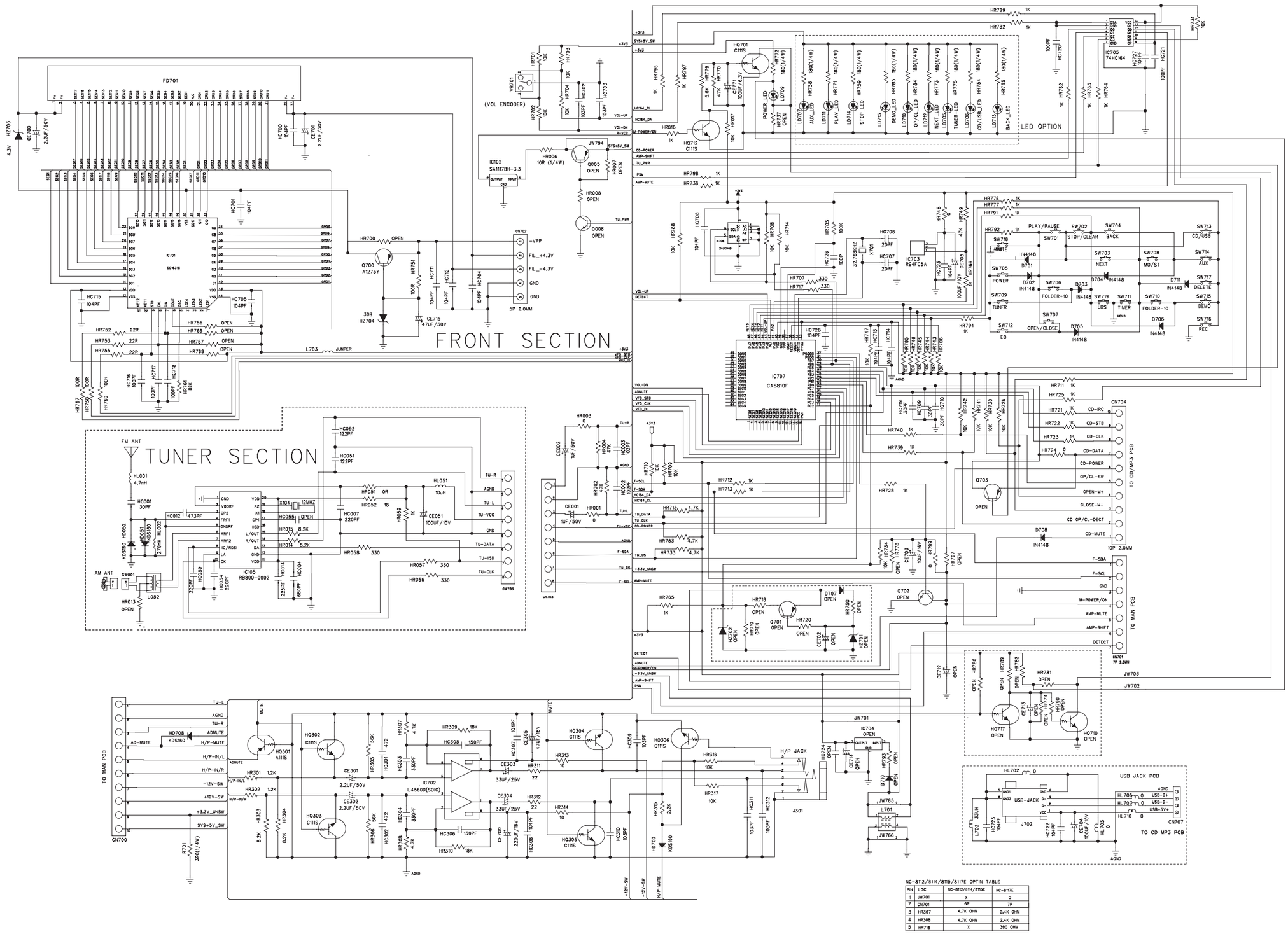
Block Diagram

- Only NC-8117E Model



Schematic Diagram

• FRONT & TUNER Section



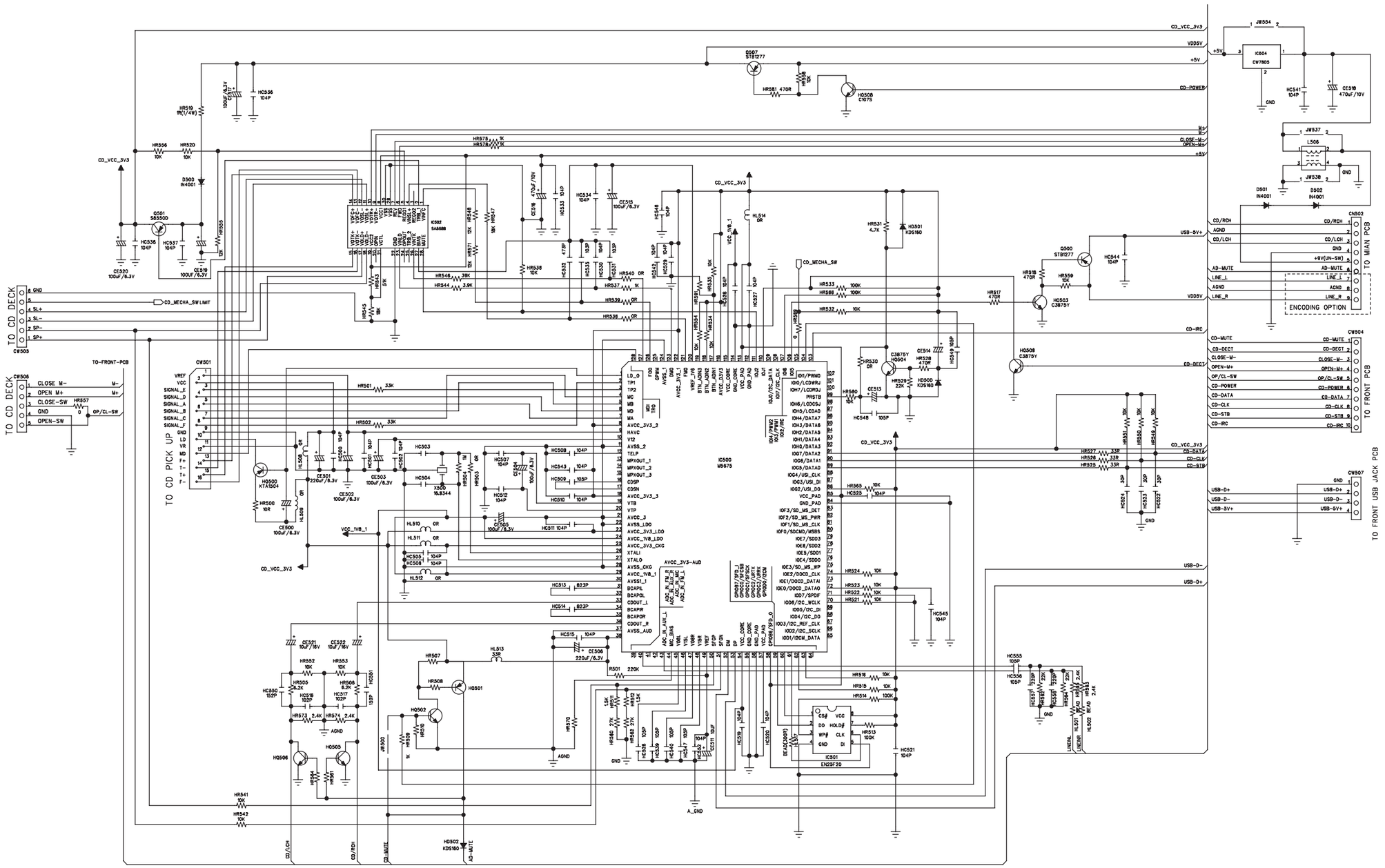
NC-8112/8114/8115/8117E OPTIN TABLE

PIN	LOC	NC-8112/8114/8115E	NC-8117E
1	JW701	X	O
2	CN701	6P	7P
3	HR307	4.7K OHM	2.4K OHM
4	HR308	4.7K OHM	2.4K OHM
5	HR716	X	390 OHM

Schematic Diagram

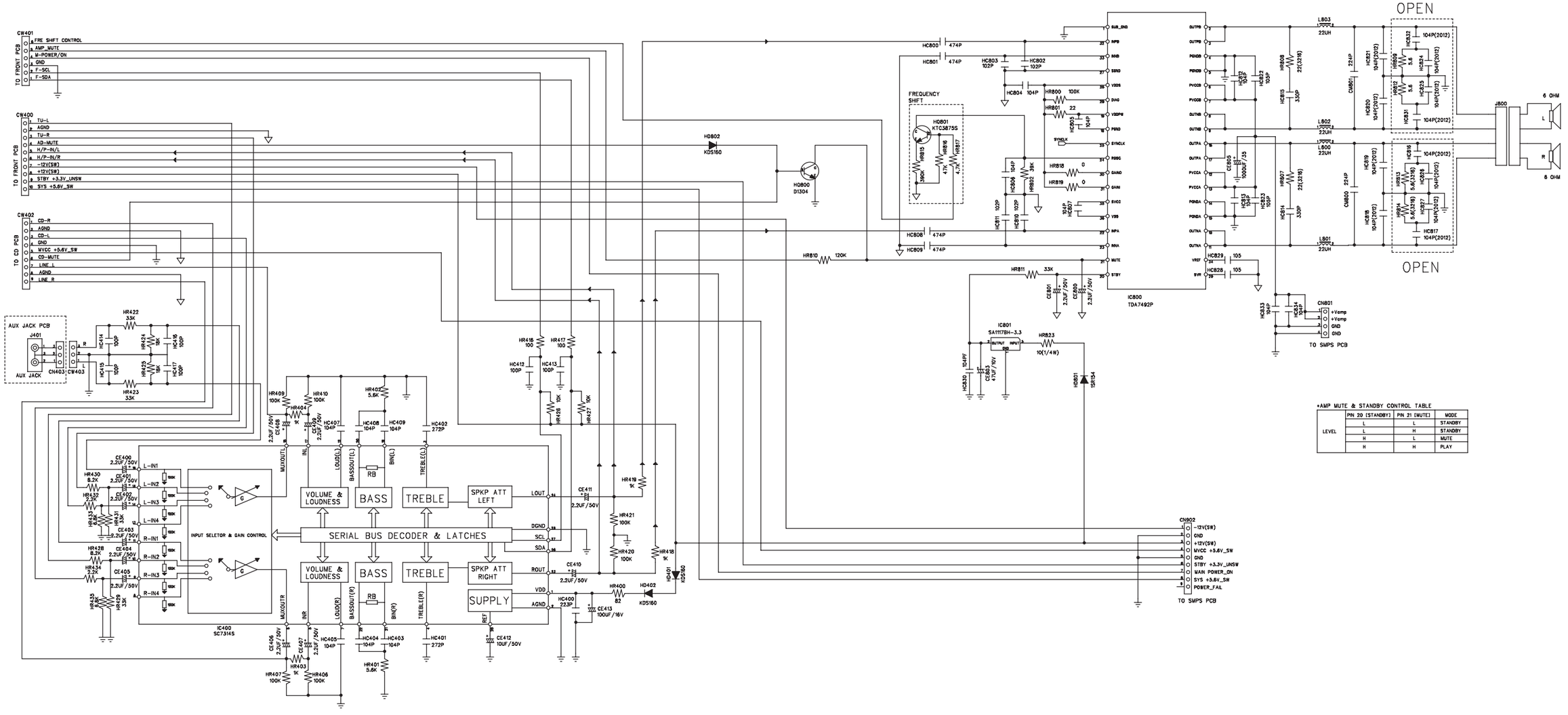
• MP3 / CD Section

7


TO CD DECK
CW505
6 GND
5
4 SL+
3 SL-
2 SP-
1 SP+
CD_MECHA_SW LIMIT
TO CD DECK
CW506
1 CLOSE M-
2 OPEN M+
3 CLOSE-SW
4 GND
5 OPEN-SW
HR557
OP/CL-SW
TO-FRONT-PCB
TO CD PICK UP
CW901
VREF
VCC
SIGNAL_E
SIGNAL_D
SIGNAL_A
SIGNAL_B
SIGNAL_C
SIGNAL_F
GND
LD
VS
MD
T+
T-
F+
F-
HR501 33K
HR502 33K
CD_VCC_3V3
VDD5V
+5V
CD-POWER
M+
M-
CLOSE-M-
OPEN-M+
+5V
Q507 ST81277
HR581 470R
HR582 10K
HD508 C1078
IC804 CW7805
JW504
JW537
JW538
L506
HC541 104P
CE519 470uF/10V
GND
D501 IN4001
D502 IN4001
CN502
CD/RCH
AGND
CD/LCH
GND
+9V(UN-SW)
AD-MUTE
LINE_L
AGND
LINE_R
ENCODING OPTION
TO MIAN PCB
CW904
CD-MUTE
CD-DECT
CLOSE-M-
OPEN-M+
OP/CL-SW
CD-POWER
CD-DATA
CD-CLK
CD-STB
CD-IRC
TO FRONT PCB
CW907
GND
USB-D+
USB-D-
USB-5V+
TO FRONT USB JACK PCB
Q500 ST81277
HR518 470R
HR559 10K
HD503 C3875Y
HC544 104P
HD504 C3875Y
HR530 0R
HR528 470R
HD000 KDS160
HR540 10K
CE513
HC548 105P
HR527 33R
HR526 33R
HR525 33R
HR551 10K
HR550 10K
HR549 10K
HC524 30P
HC523 30P
HC522 30P
HR565 10K
HR525 104P
HR524 10K
HR523 10K
HR522 10K
HR521 10K
HC545 104P
HC555 105P
HC556 105P
HC557 220P
HR557 22K
HC558 220P
HR554 22K
HR553 2.4K
HR552 2.4K
HL501 BEAD
HL502 BEAD
LINEIN_L
LINEIN_R
HR556 10K
HR520 10K
D500 IN4001
Q501 S8550D
HC536 104P
HC537 104P
HC538 104P
CE520 100uF/6.3V
CE510 100uF/6.3V
HR555 12K
HR519 1R(1/4W)
100uF/6.3V
HC536 104P
CD_VCC_3V3
VCC_1V8_1
IC502 SA5888
HR548 12K
HR547 18K
HR546 39K
HR544 3.9K
HR545 5K
HR543 6K
HR571 12K
HC534 104P
CE518 100uF/6.3V
CE516 470uF/10V
HC533 104P
HC546 104P
HC542 104P
HC529 104P
HC532 104P
HC531 103P
HC530 103P
HC533 473P
HR538 10K
HR537 1K
HR539 0R
HR536 0R
HR540 0R
HL514 0R
HR531 4.7K
HD501 KDS180
CD_MECHA_SW
HR533 100K
HR588 100K
HR532 10K
HR517 470R
HR535 10K
HC535 104P
HC527 104P
HC528 104P
HR534 10K
HR541 10K
HC526 104P
HC525 104P
HC539 104P
HC520 104P
HC521 104P
HC514 823P
HC513 823P
HC515 104P
CE506 220uF/6.3V
HL513 33R
HR507
HR508
HQ501
HQ502
HR509 1K
HR510 1K
HR511 1K
HR512 1K
HR513 100K
HR514 100K
HR515 10K
HR516 10K
HR517 10K
HR518 10K
HR519 10K
HR520 10K
HR521 10K
HR522 10K
HR523 10K
HR524 10K
HR525 10K
HR526 10K
HR527 10K
HR528 10K
HR529 10K
HR530 10K
HR531 10K
HR532 10K
HR533 10K
HR534 10K

Schematic Diagram

• MAIN Section (Only NC-8112E Model)



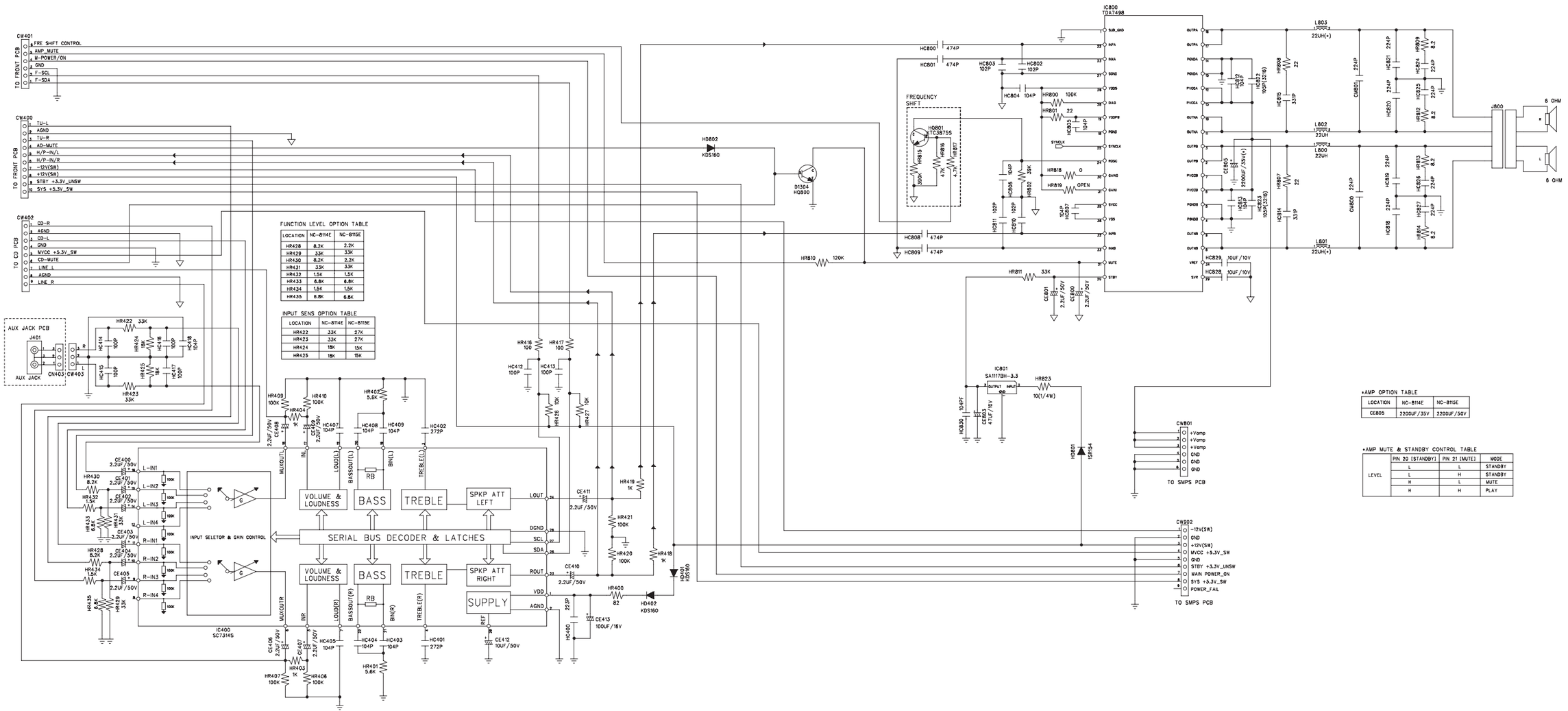
*AMP MUTE & STANDBY CONTROL TABLE

	PIN 20 (STANDBY)	PIN 21 (MUTE)	MODE
LEVEL	L	L	STANDBY
	L	H	STANDBY
	H	L	MUTE
	H	H	PLAY

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.

Schematic Diagram

• MAIN Section (Only NC-8114E/NC-8115E 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.

6

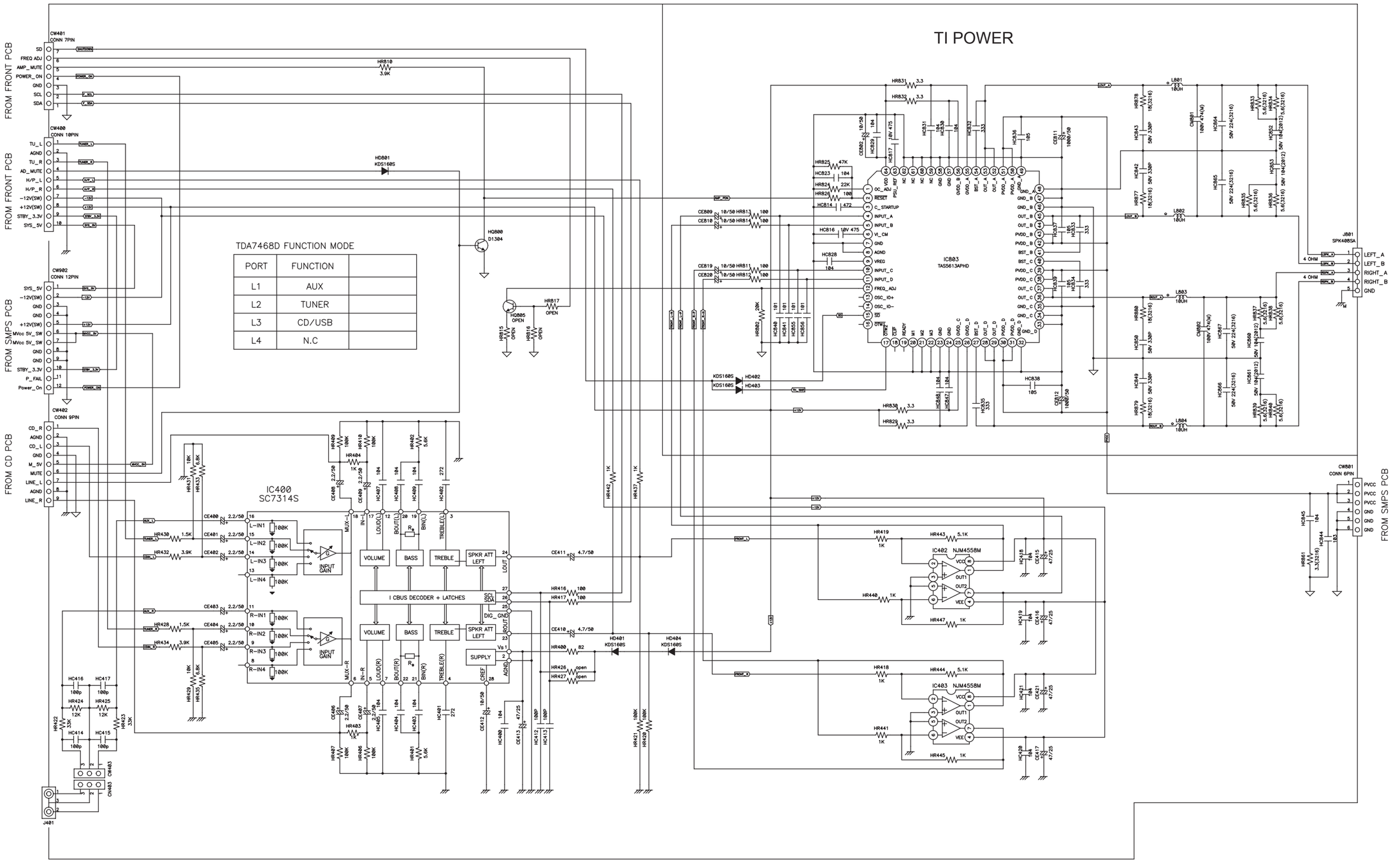
Schematic Diagram

- **MAIN Section (Only NC-8117E Model)**

6

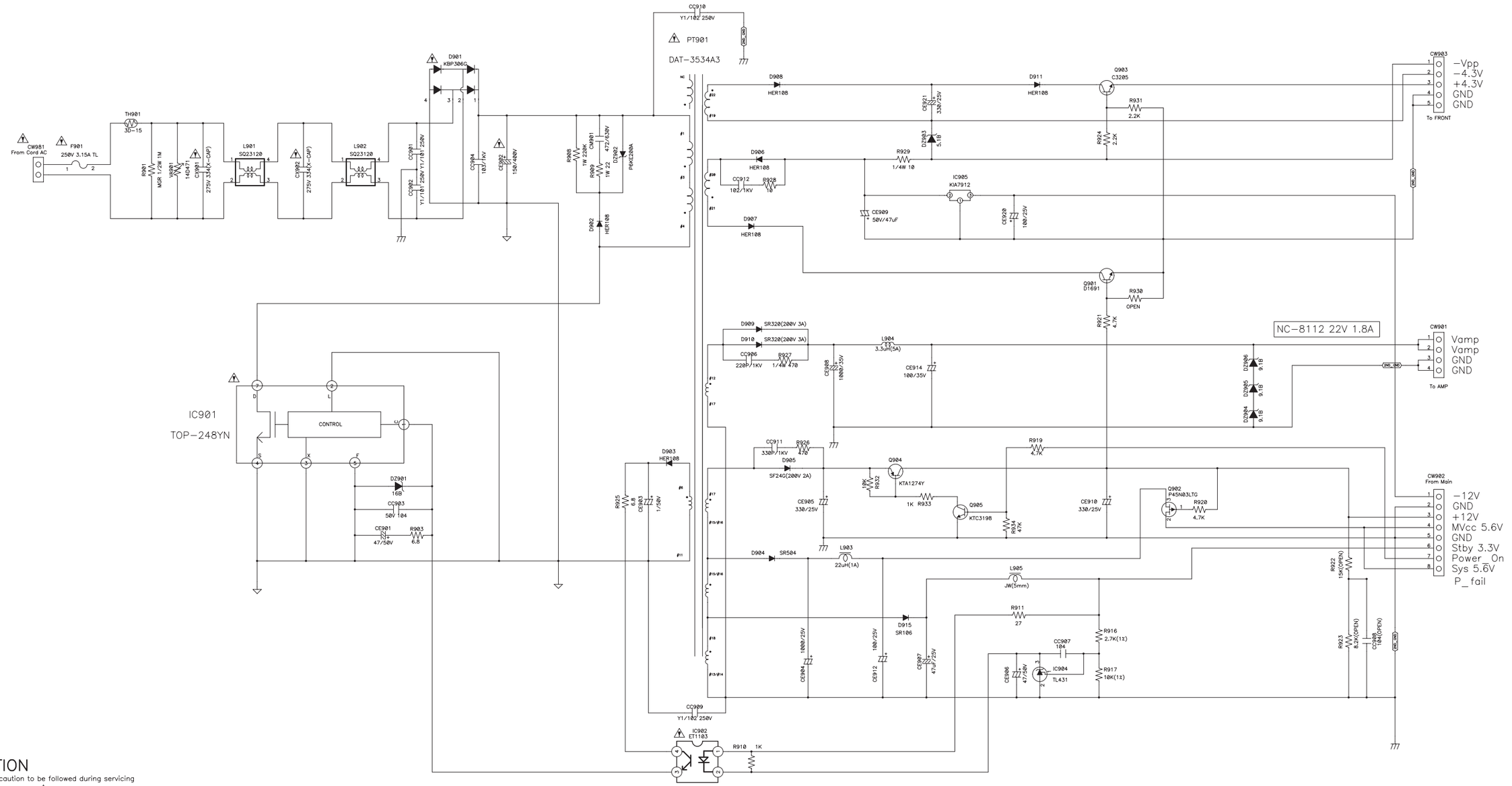
TDA7468D FUNCTION MODE

PORT	FUNCTION	
L1	AUX	
L2	TUNER	
L3	CD/USB	
L4	N.C	



Schematic Diagram

- **SMPS Section (Only NC-8112E Model)**



CAUTION

Safety precaution to be followed during servicing

1) Since those parts ⚠ marked with are critical parts for safety. use only the one described in the parts list.

2) Befor returning the set to the coustomer mark appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING

HOT NOTE : IF YOU CHECK THE VOLTAGE FOR PARTS IN HOT CIRCIT.

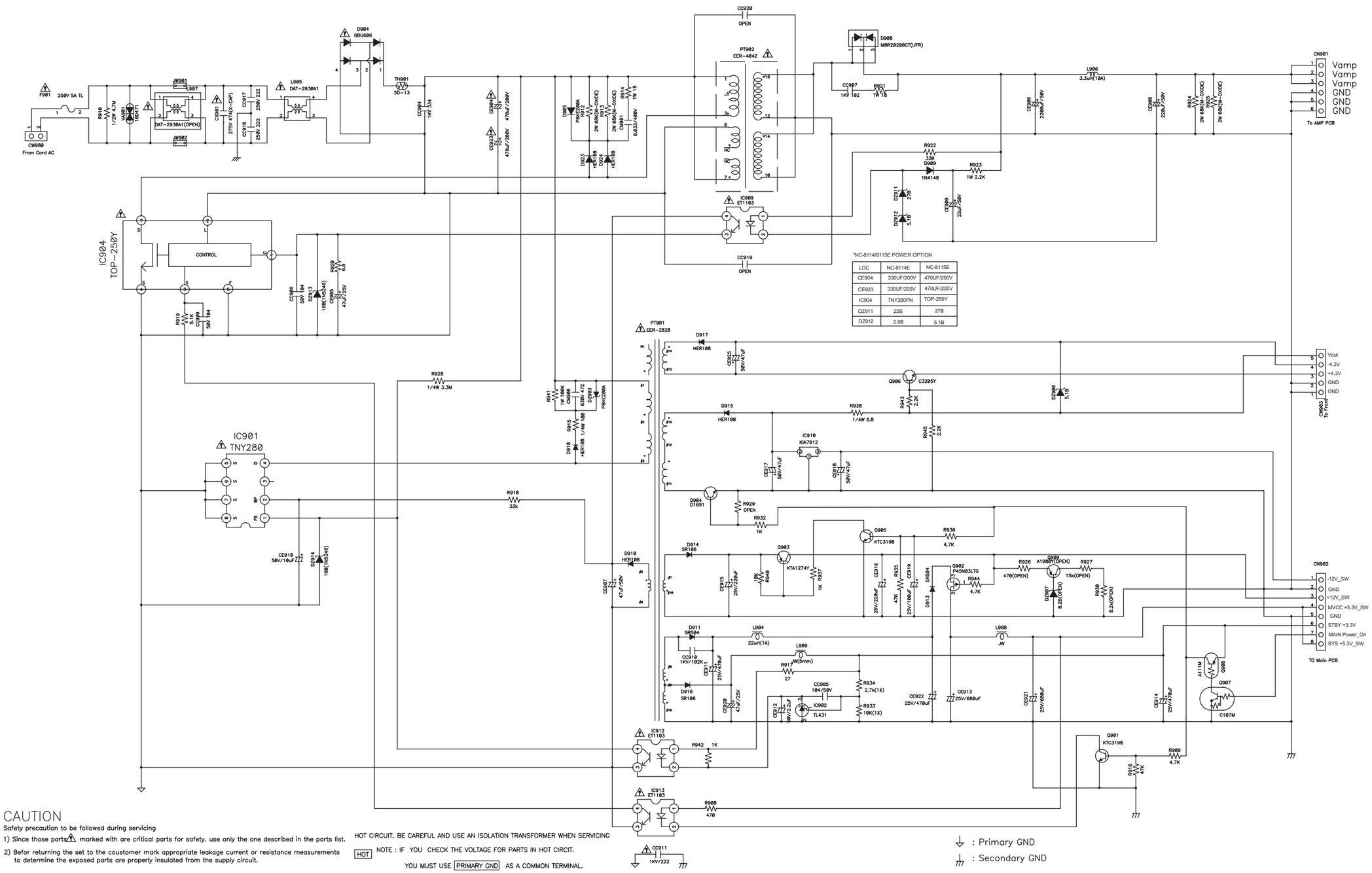
YOU MUST USE PRIMARY GND AS A COMMON TERMINAL.

⏚ : Primary GND

⏚ : Secondary GND

Schematic Diagram

- **SMPS Section (Only NC-8114E/NC-8115E Model)**



*NC-8114/8115E POWER OPTION

LOC	NC-8114E	NC-8115E
CE904	330UF/200V	470UF/200V
CE923	330UF/200V	470UF/200V
IC904	TNY280PN	TOP-250Y
DZ911	22B	27B
DZ912	3.9B	5.1B

CAUTION

Safety precaution to be followed during servicing

1) Since those parts⚠ marked with are critical parts for safety. use only the one described in the parts list.
2) Befor returning the set to the coustomer mark appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING

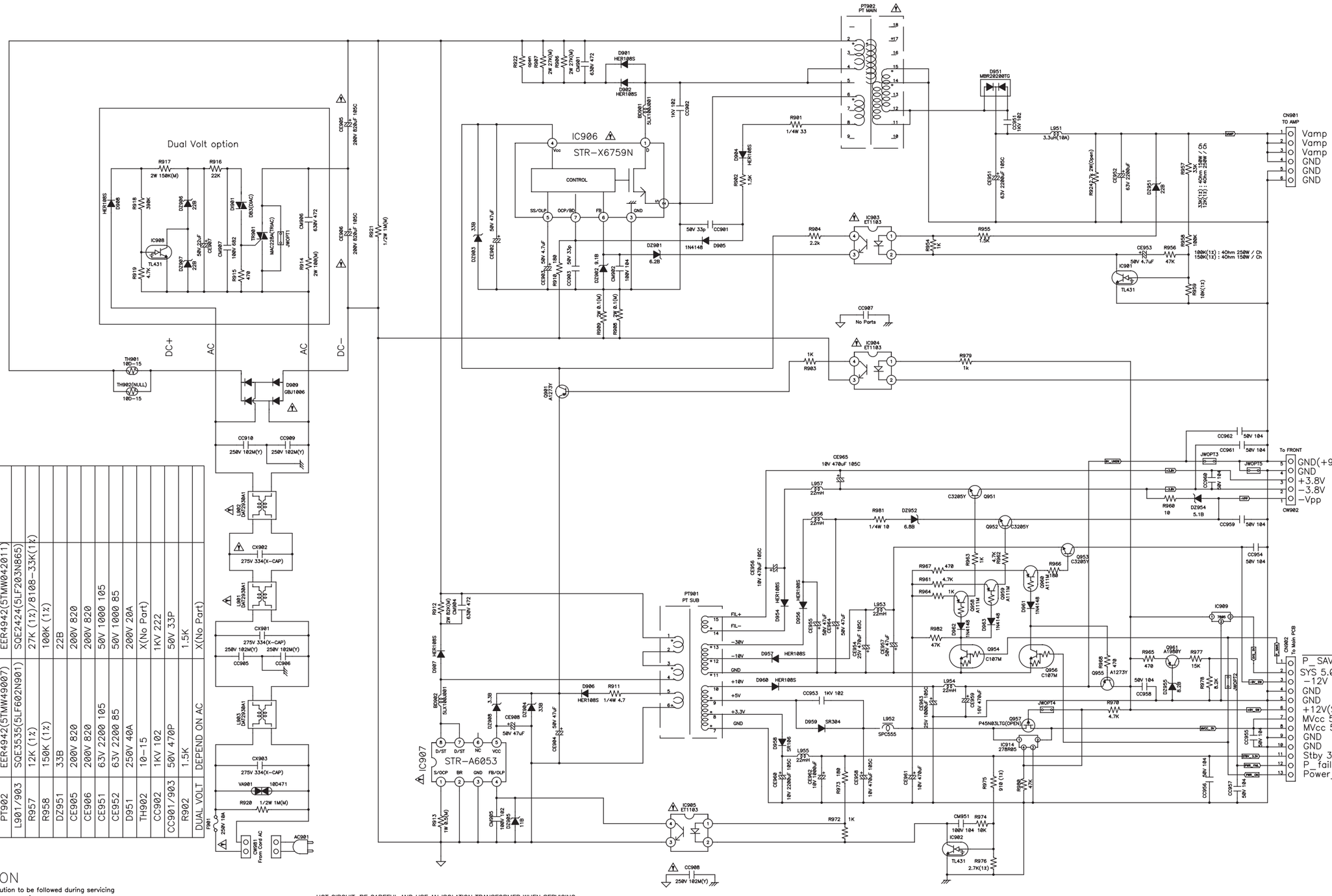
HOT NOTE : IF YOU CHECK THE VOLTAGE FOR PARTS IN HOT CIRCIT.
YOU MUST USE PRIMARY GND AS A COMMON TERMINAL.

⏚ : Primary GND
⏚ : Secondary GND

6

Schematic Diagram

- **SMPS Section (Only NC-8117E Model)**



OPTION TABLE

LOCATION	NC8109(900W)	NC8108(500W)/8117	Remark
PT902	EER4942(5TMW49007)	EER4942(5TMW042011)	
L901/903	SQE3535(5LF602N901)	SQE2424(5LF203N865)	
R957	12K (1%)	27K (1%)/8108-33K(1%)	
R958	150K (1%)	100K (1%)	
DZ951	33B	22B	
CE905	200V 820	200V 820	
CE906	200V 820	200V 820	
CE951	63V 2200 105	50V 1000 105	
CE952	63V 2200 85	50V 1000 85	
D951	250V 40A	200V 20A	
TH902	10-15	X(No Part)	
CC902	1KV 102	1KV 222	
CC901/903	50V 470P	50V 33P	
R902	1.5K	1.5K	
DUAL VOLT	DEPEND ON AC	X(No Part)	

CAUTION

Safety precaution to be followed during servicing

1) Since those parts ⚠ marked with are critical parts for safety. use only the one described in the parts list.

2) Befor returning the set to the coustomer mark appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING

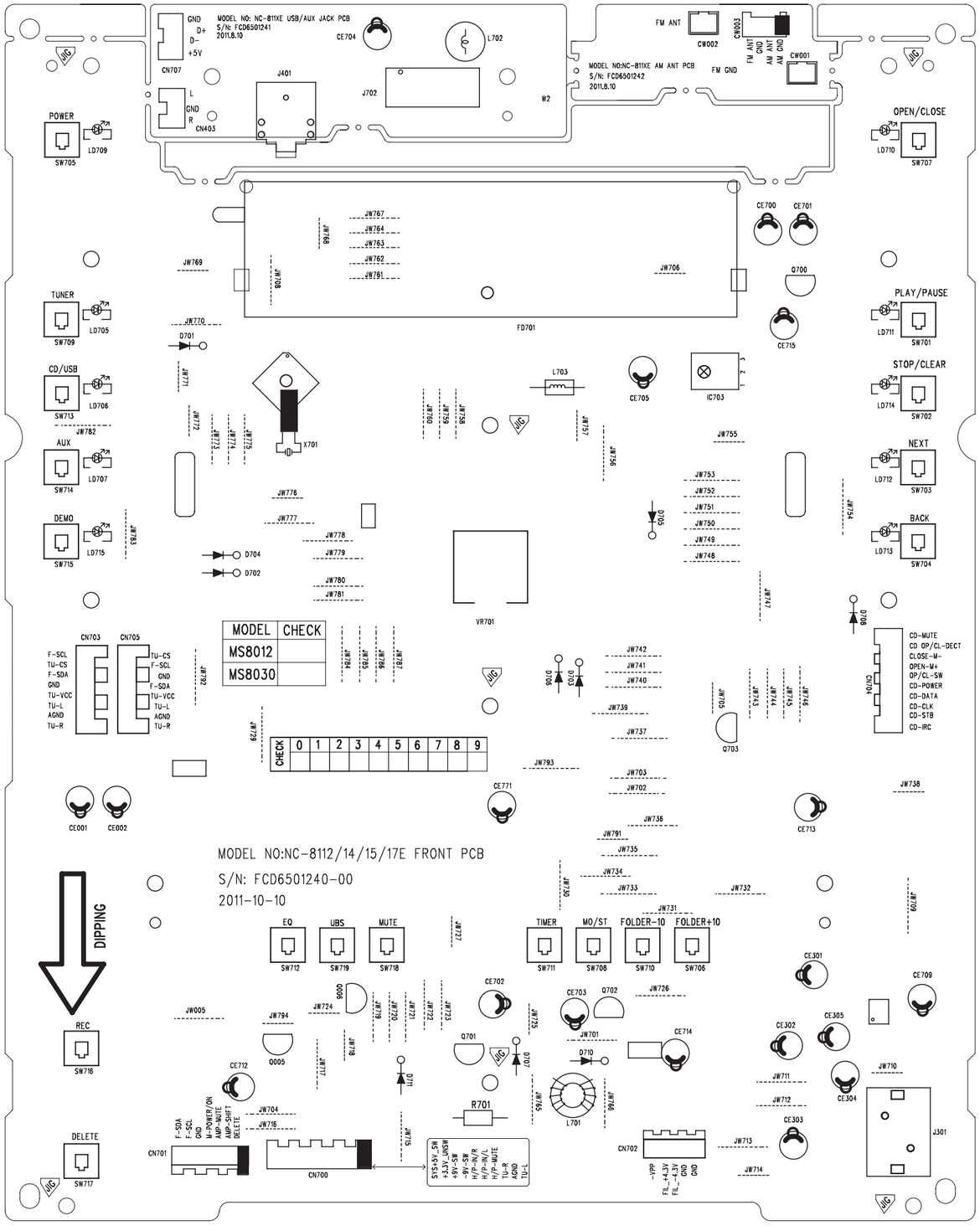
HOT NOTE : IF YOU CHECK THE VOLTAGE FOR PARTS IN HOT CIRCIT.

YOU MUST USE PRIMARY GND AS A COMMON TERMINAL.

P. C. B Pattern Layout

- FRONT Section

<Top View>

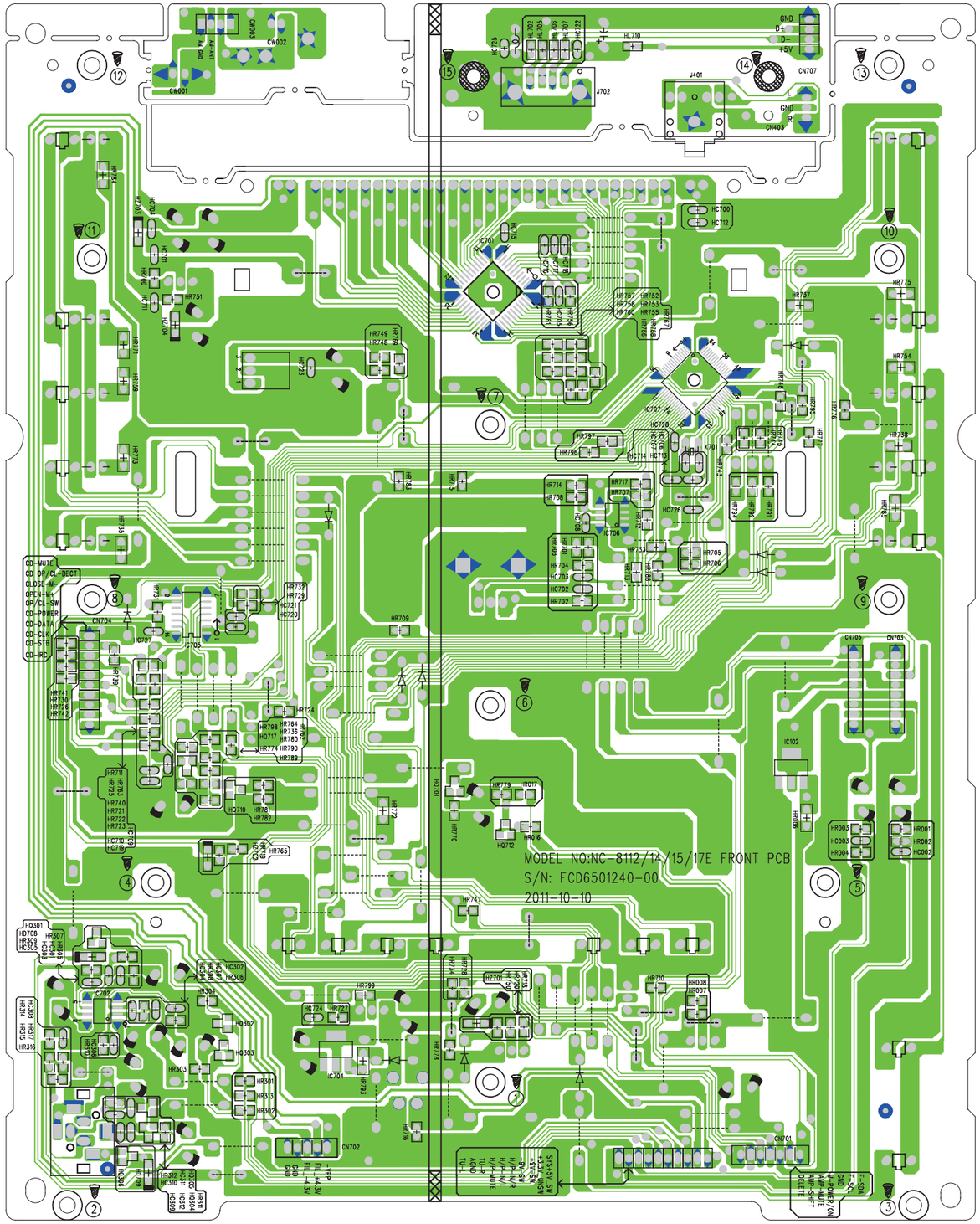


7

P. C. B Pattern Layout

- FRONT Section

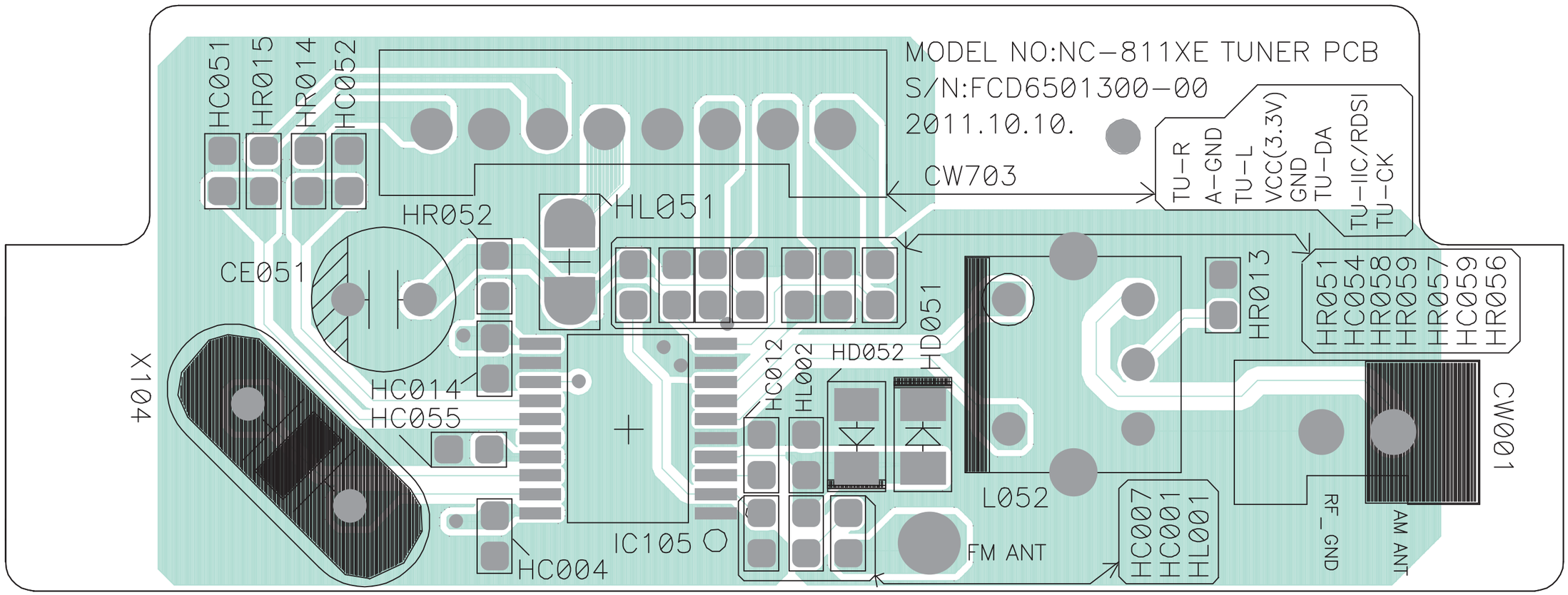
<Bottom View>



7

- TUNER Section

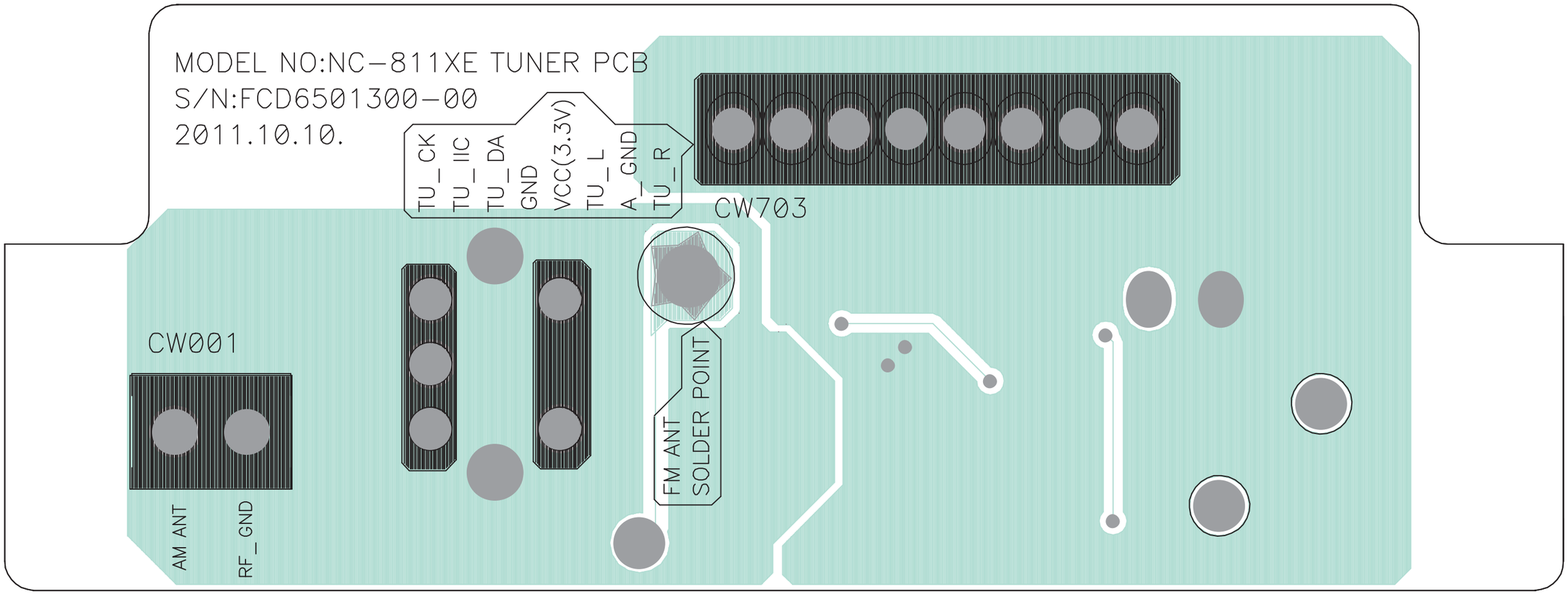
<Top View>



- TUNER Section

<Bottom View>

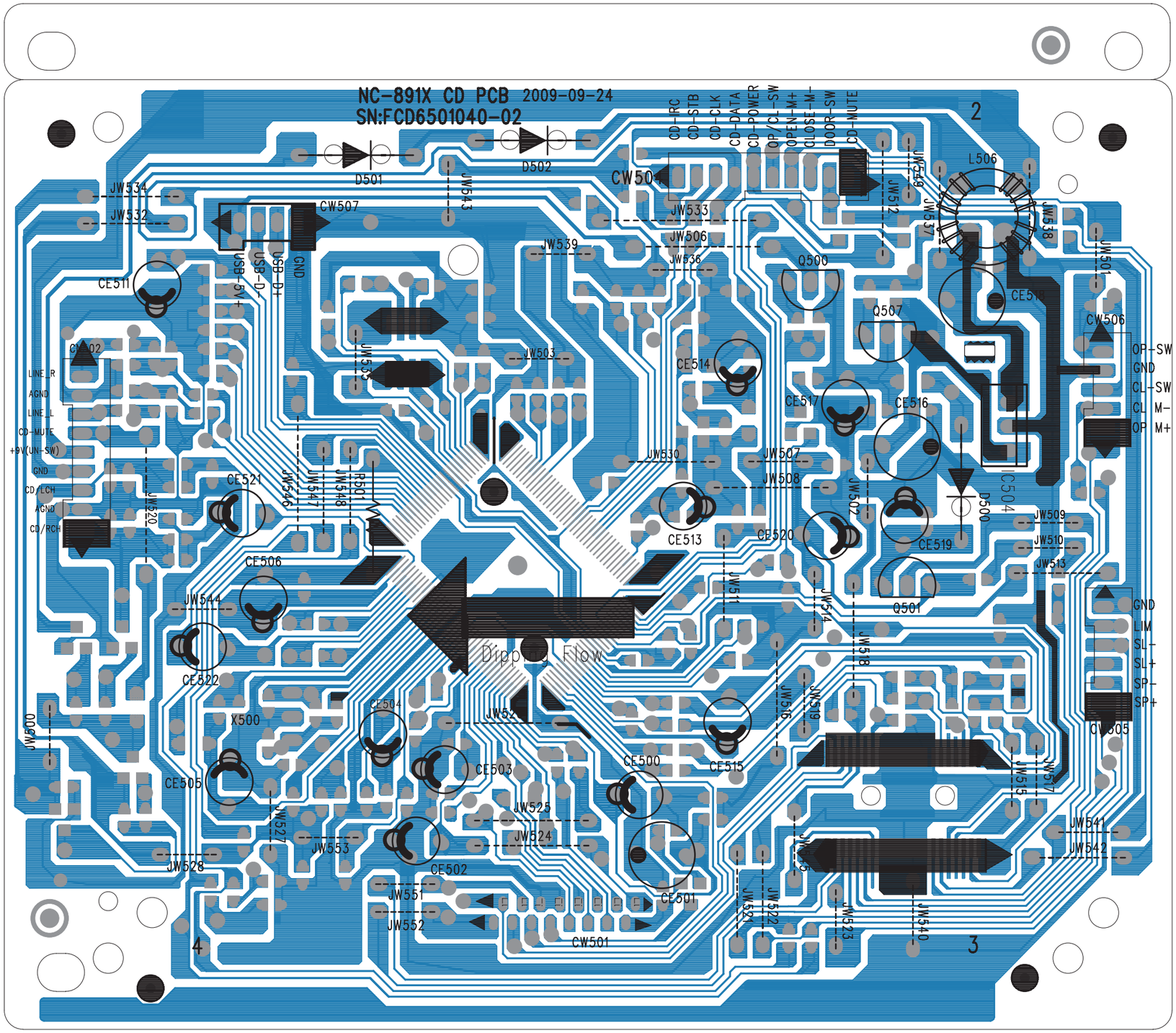
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P. C. B Pattern Layout

- MP3 / CD Section

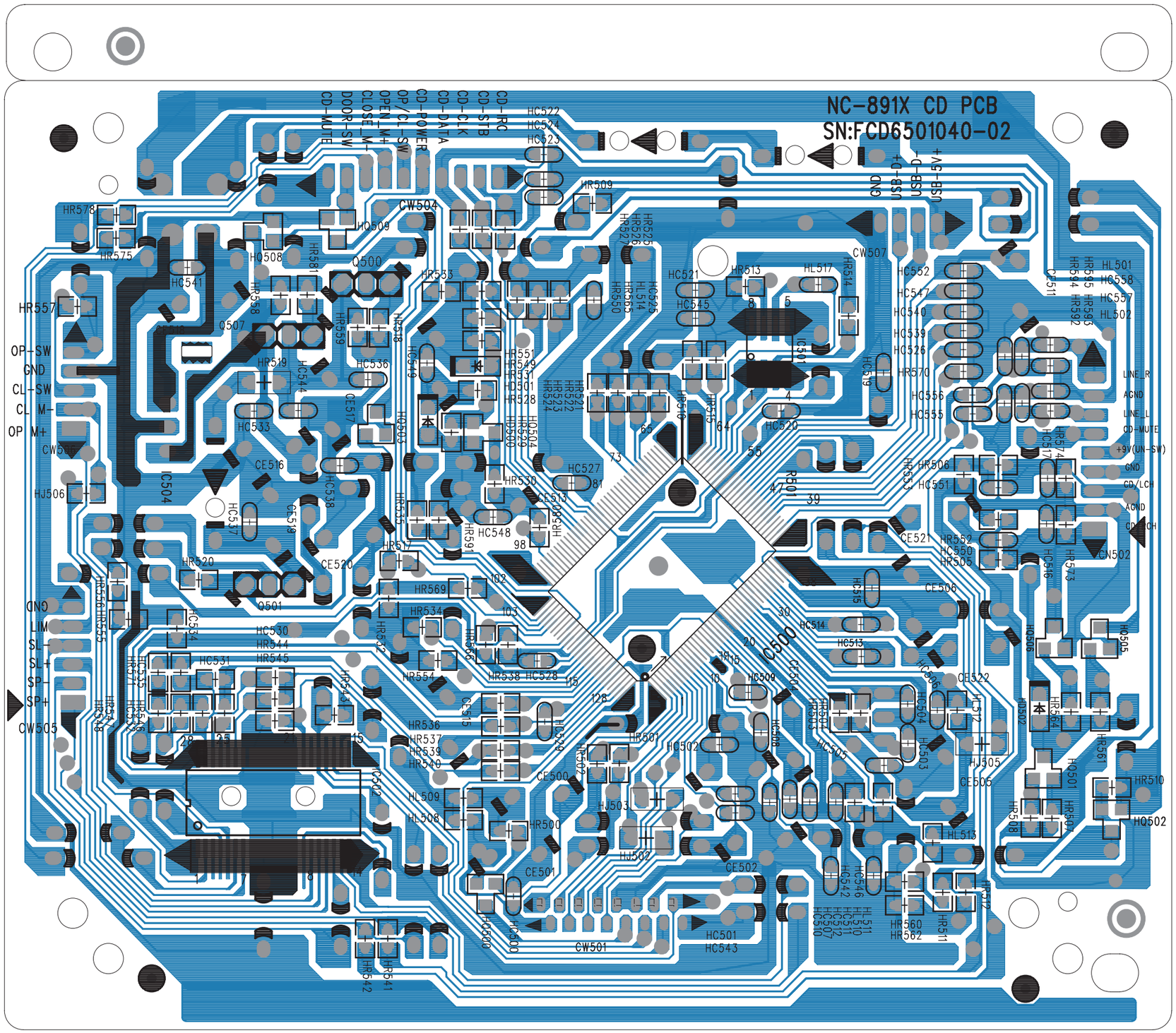
<Top View>



P. C. B Pattern Layout

- MP3 / CD Section

<Bottom View>

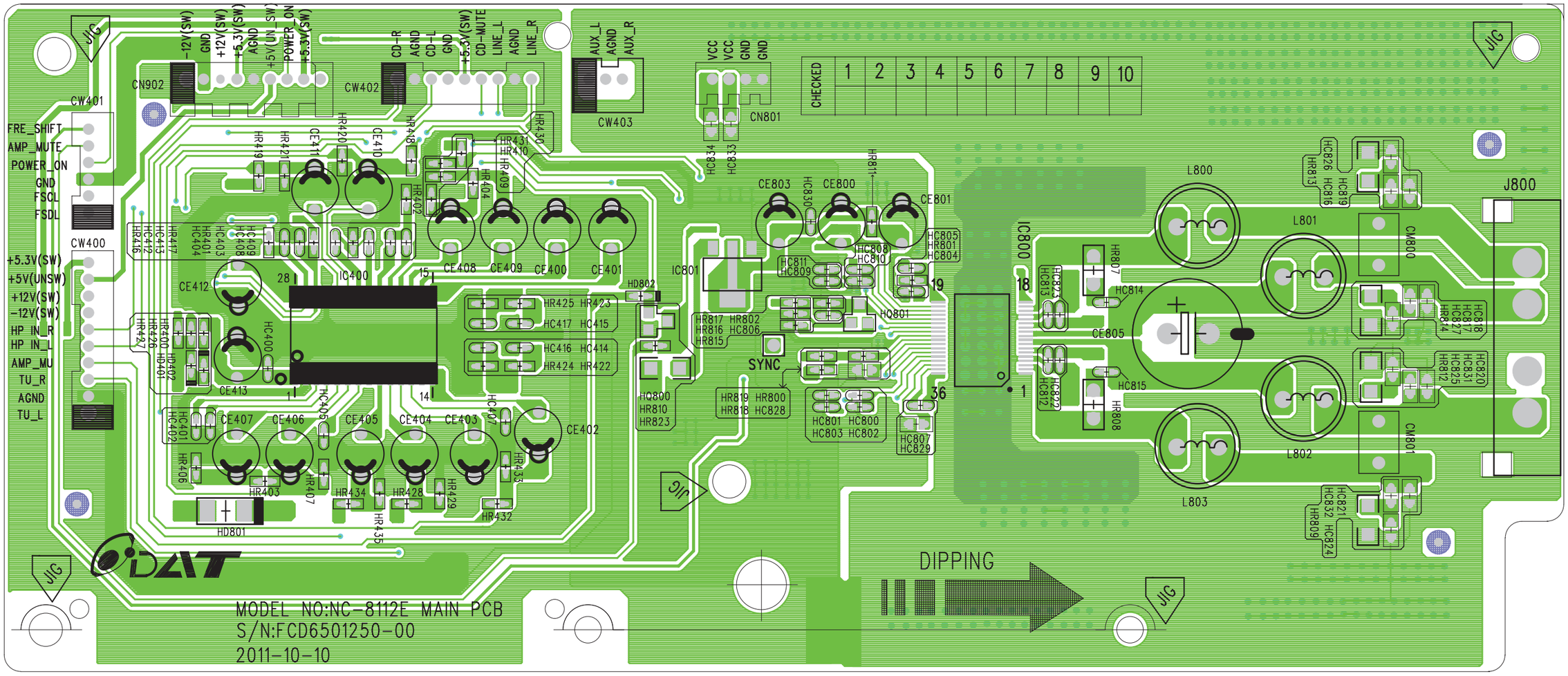


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P. C. B Pattern Layout

- MAIN Section (Only NC-8112E Model)

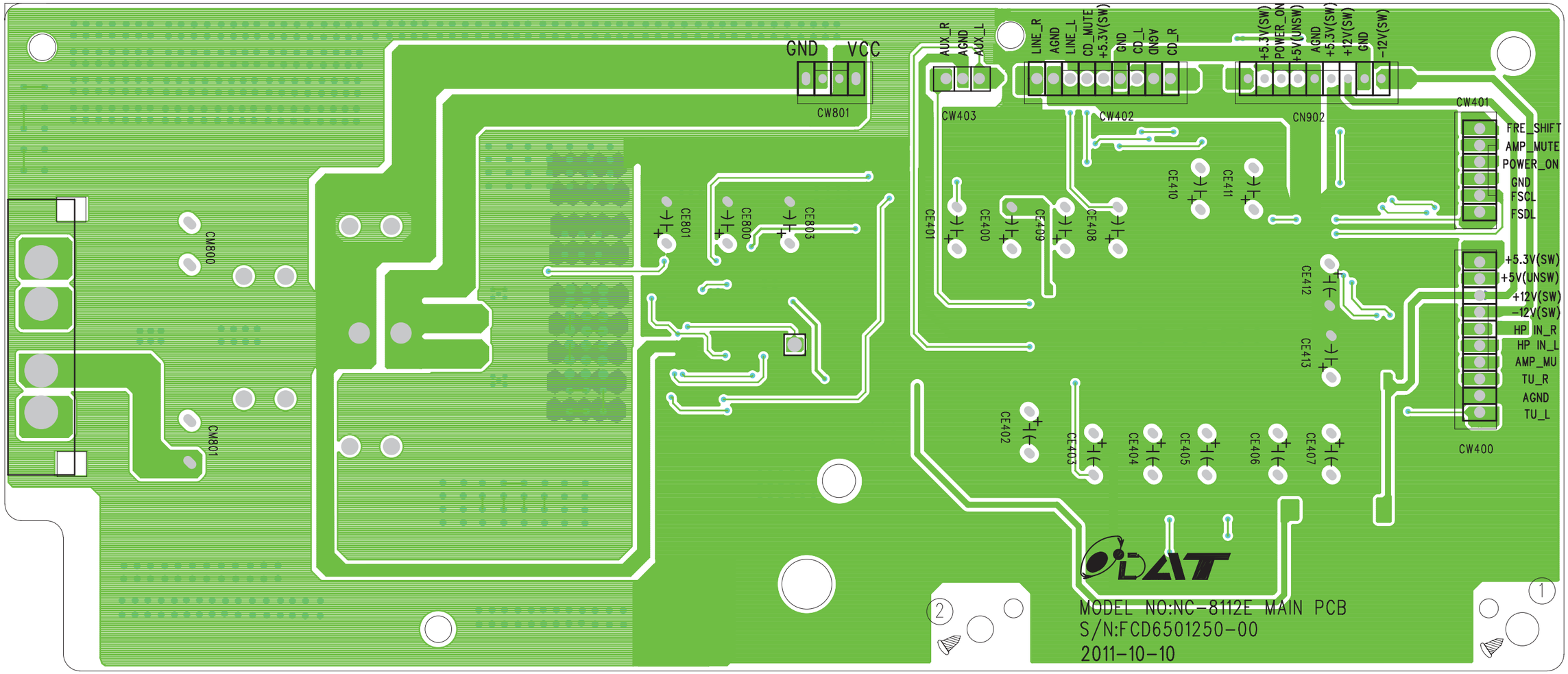
<Top View>



P. C. B Pattern Layout

- MAIN Section (Only NC-8112E Model)

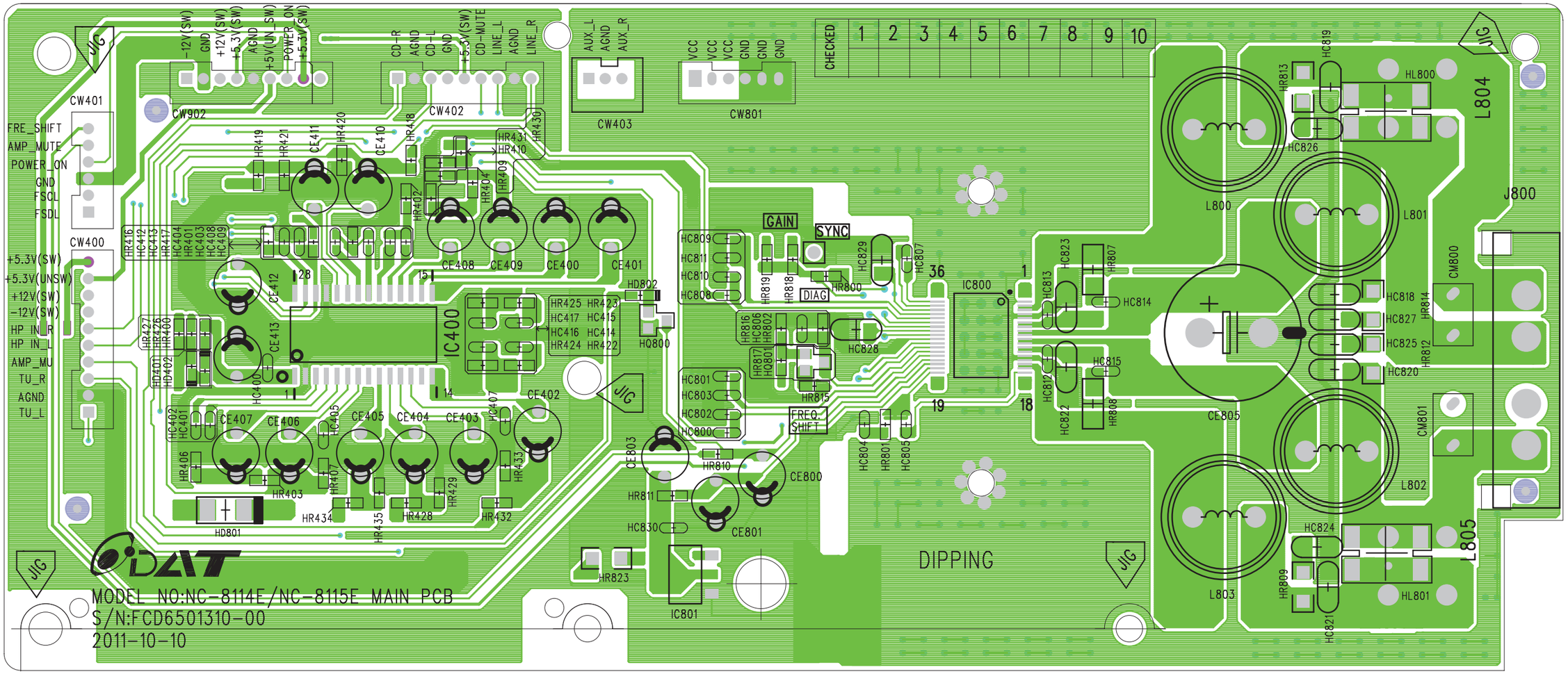
<Bottom View>



P. C. B Pattern Layout

- MAIN Section (Only NC-8114E/NC-8115E Model)

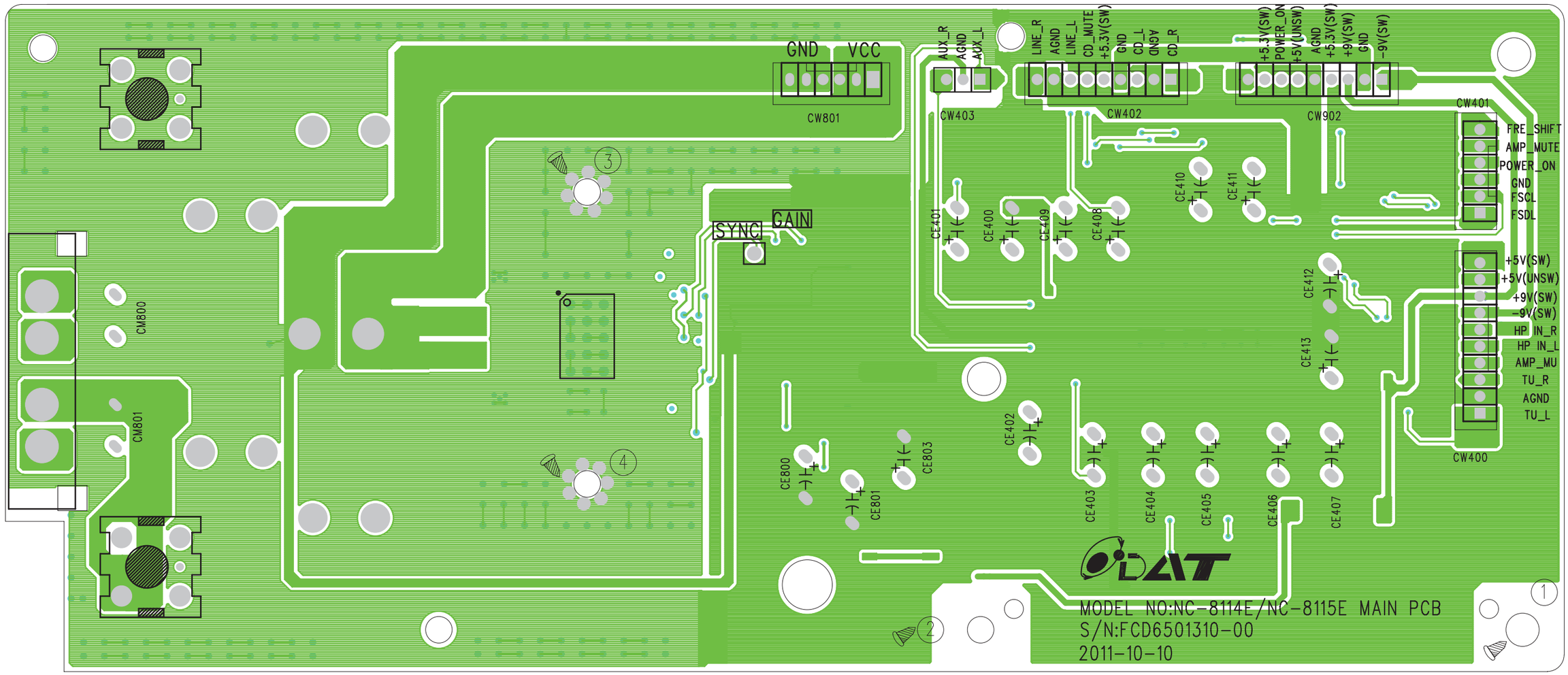
<Top View>



P. C. B Pattern Layout

- MAIN Section (Only NC-8114E/NC-8115E Model)

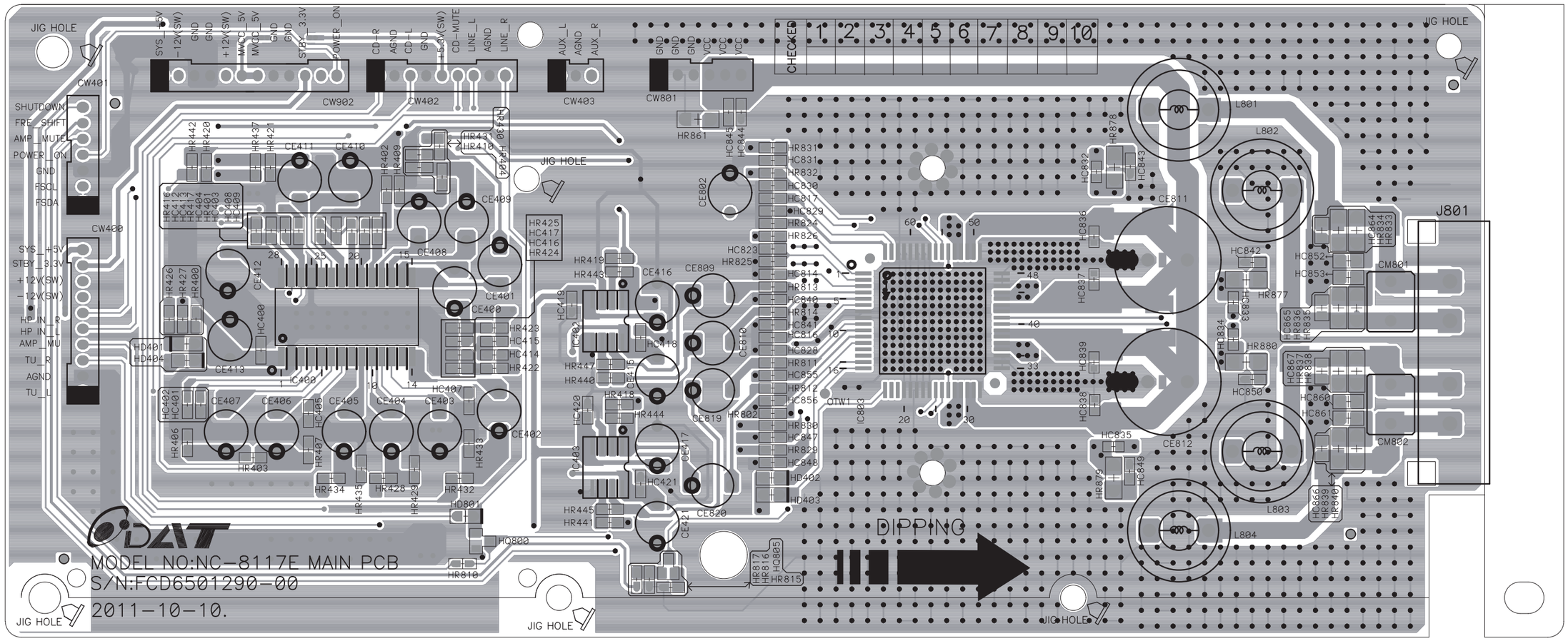
<Bottom View>



P.C.B Pattern Layout

- MAIN Section (Only NC-8117E Model)

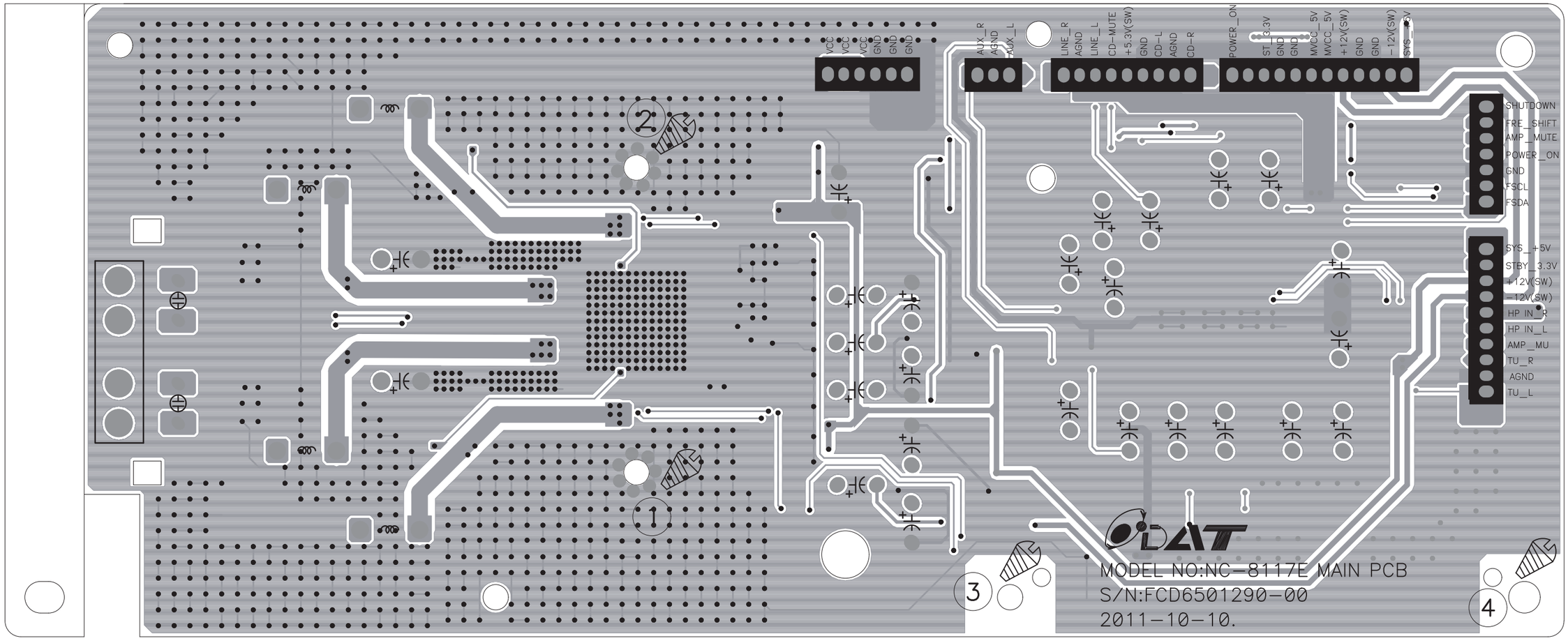
<Top View>



P. C. B Pattern Layout

- MAIN Section (Only NC-8117E Model)

<Bottom View>

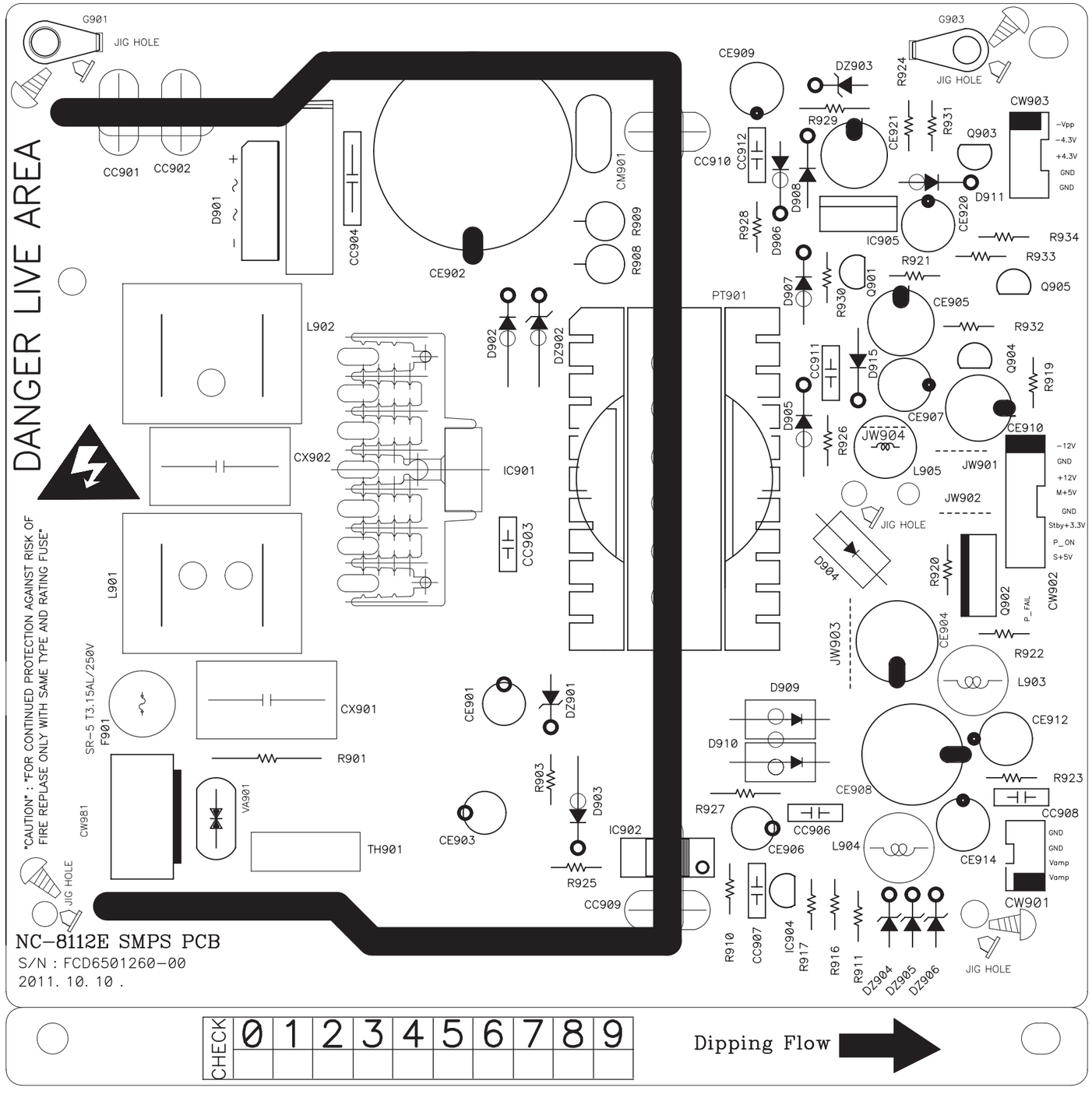


7

P. C. B Pattern Layout

- SMPS Section (Only NC-8112E Model)

<Top View>



CHECK	0	1	2	3	4	5	6	7	8	9

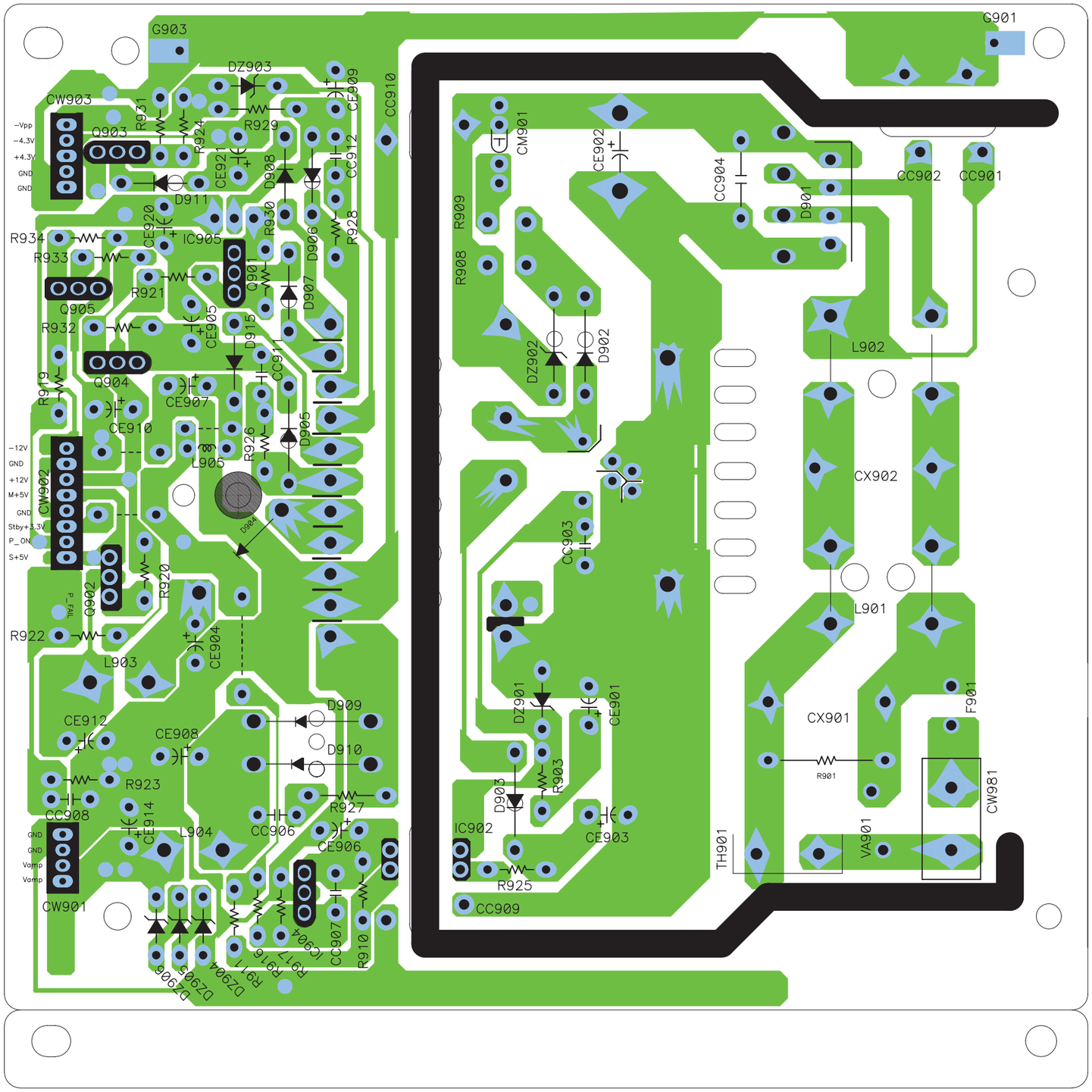
Dipping Flow

7

P. C. B Pattern Layout

- SMPS Section (Only NC-8112E Model)

<Bottom View>

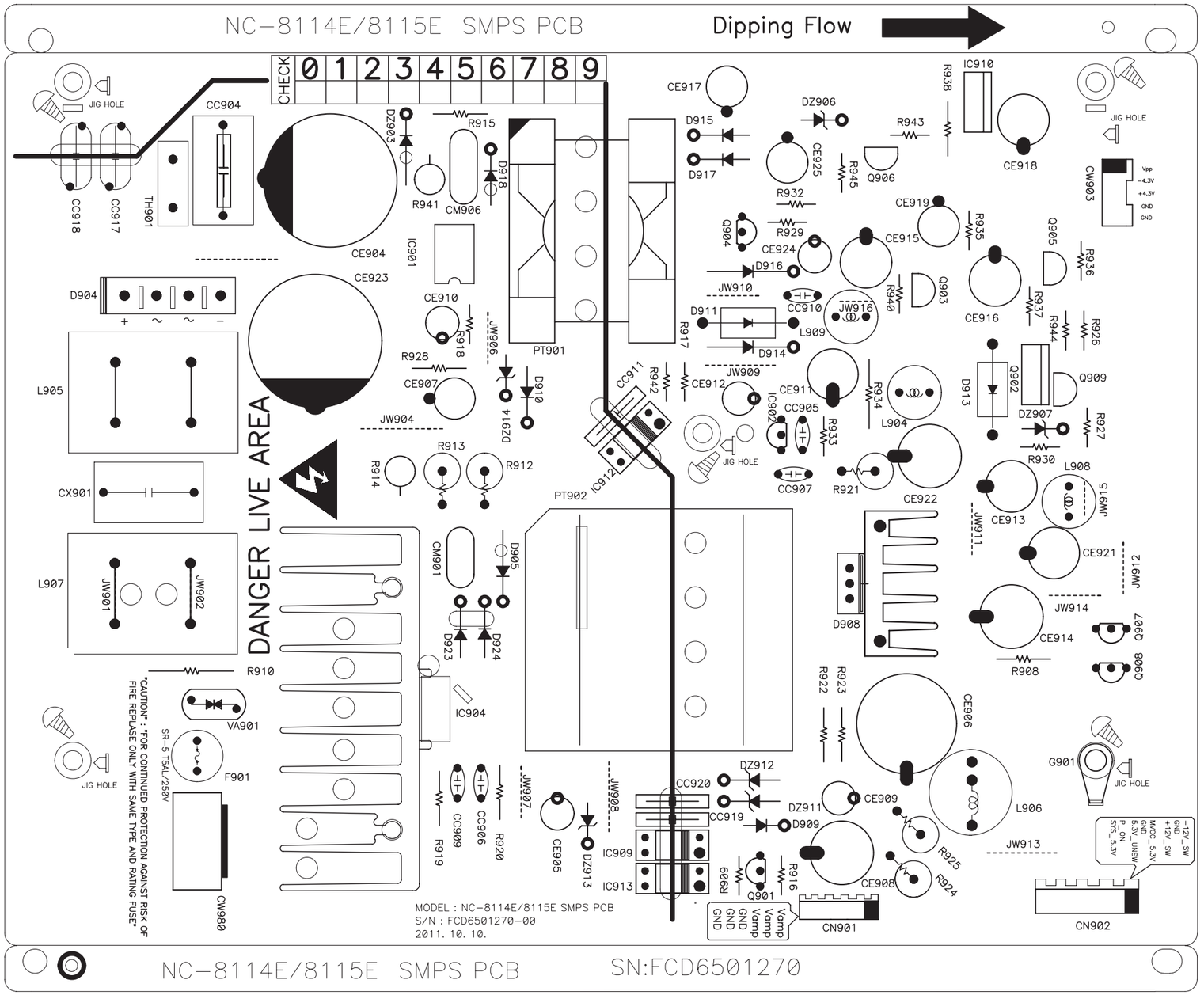


7

P. C. B Pattern Layout

- SMPS Section (Only NC-8114E/NC-8115E Model)

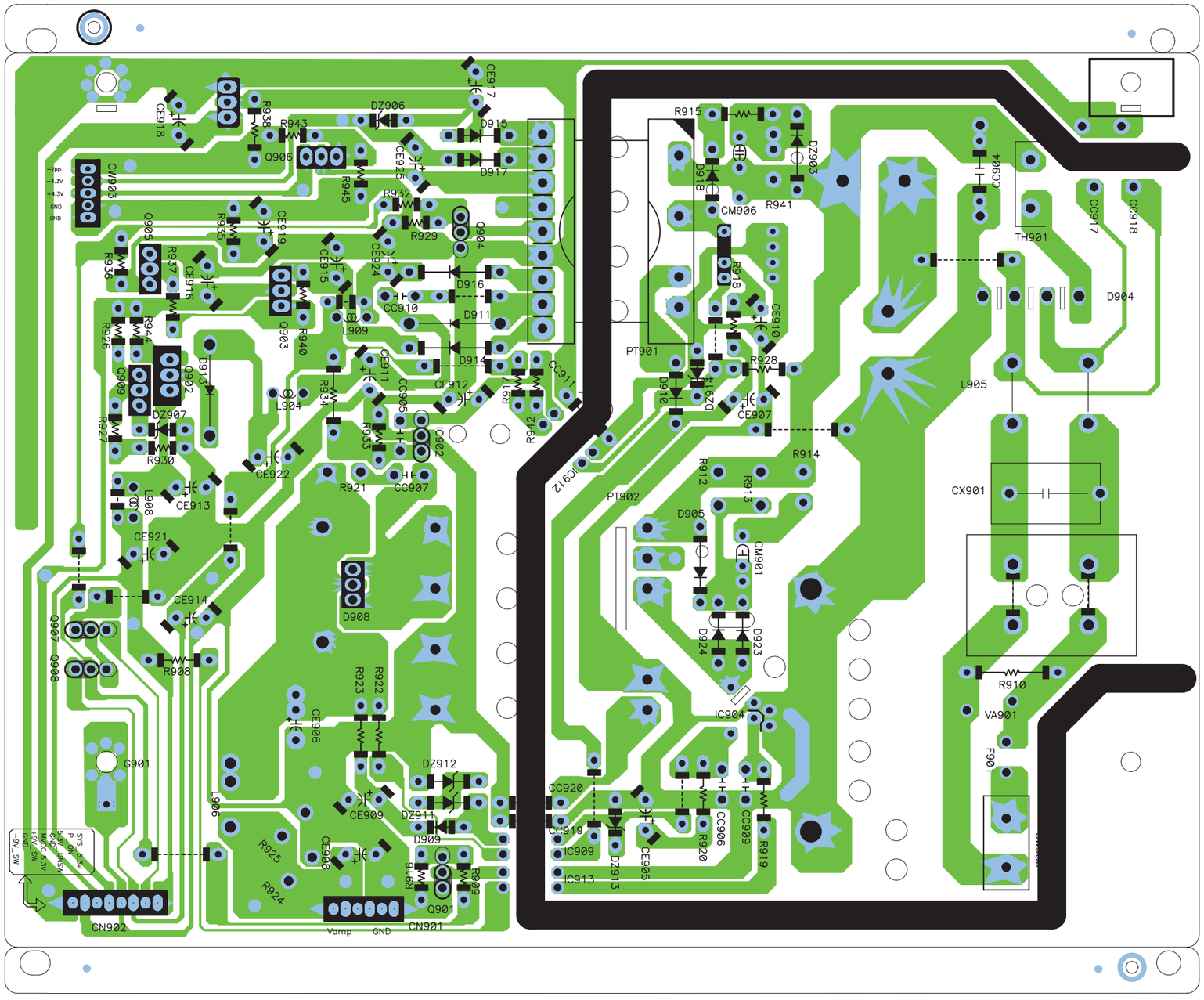
<Top View>



P. C. B Pattern Layout

- SMPS Section (Only NC-8114E/NC-8115E Model)

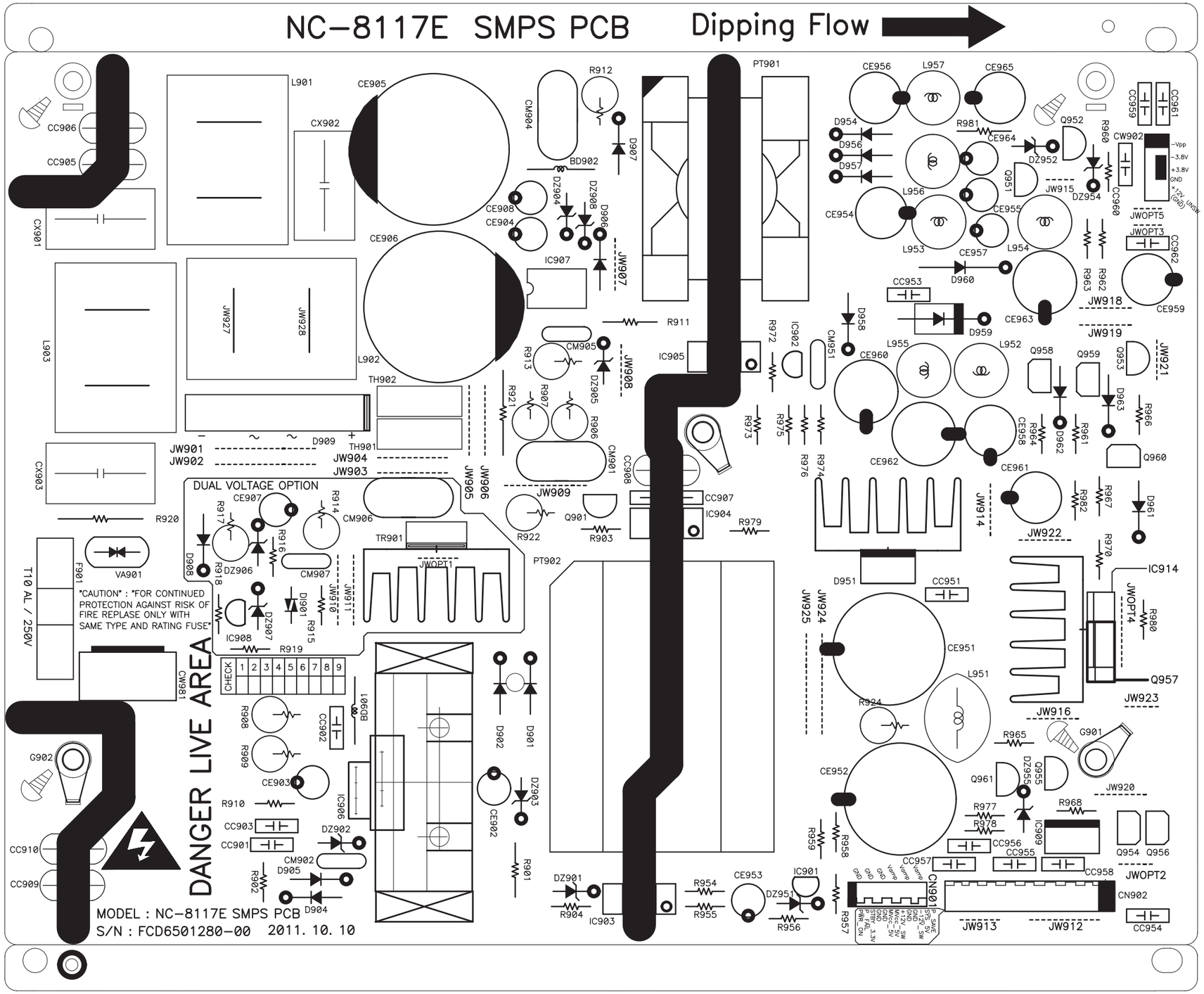
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P. C. B Pattern Layout

- SMPS Section (Only NC-8117E Model)

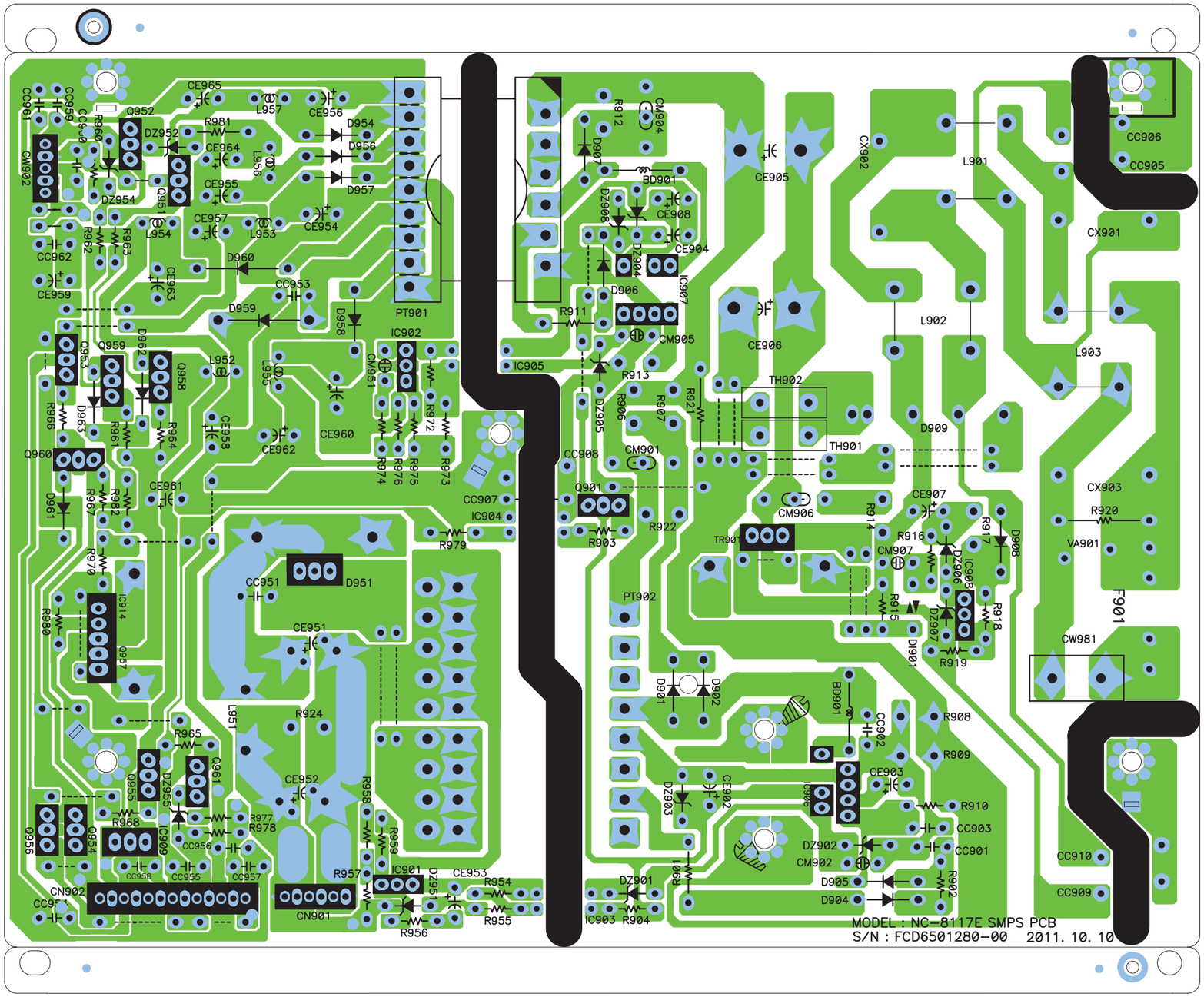
<Top View>



P. C. B Pattern Layout

- SMPS Section (Only NC-8117E Model)

<Bottom View>



7

8

•NC-8112E/NC-8114E/NC-8115E/NC-8117E SVC BOM

◆◆◆◆◆◆PCB MAIN ASS'Y FOR NC-8112E◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
CM800、CM801	CMXK1J224J-X	C MYLAR	MC 63V 0.22MF J	
HD401、HD402、HD802	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)	
HD801	D1SR154---	DIODE RECTIFIER	1SR154-400 4526	
HQ800	TZTD1304--	TR CHIP	KTD1304(STD123S)	
HQ801	TZTC3875S-	TR CHIP	KTC3875Y(2SC5343SY)	
IC400	1SC7314S--	IC AUDIO PROCESSOR	SC7314S	
IC800	1TDA7492P-	IC	TDA7492P	
IC801	1SA1117S33	IC REGULATOR	SA1117BH-3.3(SOT-223-3L)	
L800、L801、L802、L803	5LF220K900	COIL LPF	22UH LPF 7012P-02-220L	
J800	9736320500-03	JACK SPEAKER	CJ-9007-040	

◆◆◆◆◆◆PCB MAIN ASS'Y FOR NC-8114E/NC-8115E◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
CM800、CM801	CMXK1J224J-X	C MYLAR	MC 63V 0.22MF J	
HD401、HD402、HD802	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)	
HD801	D1SR154---	DIODE RECTIFIER	1SR154-400 4526	
HQ800	TZTD1304--	TR CHIP	KTD1304(STD123S)	
HQ801	TZTC3875S-	TR CHIP	KTC3875Y(2SC5343SY)	
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 MAIN ASS'Y FOR NC-8117E◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
CM801、CM802	CMXK2A474J	C MYLAR	MC 100V 0.47MF J	
HQ800	TZTD1304--	TR CHIP	KTD1304(STD123S)	
HD401、HD402、HD403	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)	
HD404、HD801	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)	
IC400	1SC7314S--	IC AUDIO PROCESSOR	SC7314S	
IC402、IC403	1NJM4558M-	IC	NJM4558M	
IC803	1TAS5613APHD	IC	TAS5613APHDR	
L801、L802、L803、L804	5LC100K869	COIL	10MH LPF(8020P) (SPK)	
J801	9736320500-03	JACK SPEAKER	CJ-9007-040	

◆◆◆◆◆◆PCB FRONT ASS'Y FOR NC-8112E/NC-8114E/NC-8115E/NC-8117E◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
D701、D702、D703、D704	DZN4148---	DIODE	IN4148 AUTO 52MM TAPPING	
D705、D706、D708、D711	DZN4148---	DIODE	IN4148 AUTO 52MM TAPPING	
FD701	DF25-1127F	VFD	VFD25-1127F	
HD708、HD709	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)	
HQ301	TZRA111S--	TR CHIP	KRA111S(SRA2211S)	
HQ302、HQ303、HQ304、HQ305	TZRC111S--	TR CHIP	KRC111S(SRC1211S)	
HQ306、HQ701、HQ712	TZRC111S--	TR CHIP	KRC111S(SRC1211S)	
HZ703	DMTZ4R3B-	DIODE ZENER CHIP	UDZ4.3B 17X12	
HZ704	DMTZ30B---	DIODE ZENER CHIP	UDZ30B 17X12	
IC102	1SA1117S33	IC REGULATOR	SA1117BH-3.3(SOT-223-3L)	
IC701	1SC16315--	IC	SC16315	
IC702	1IL4560D--	IC H/P AMP	IL4560D(SOIC)	
IC703	1HM338RW41	IC RMC	HM338R-W4-125	
IC705	1IN74HC164	IC	IN74HC164AD	
IC706	1M24C04MN-	IC EEPROM	M24C04MN SOP	

IC707	1CA6810F07	IC U-COM	CA6810F(W/ENCODER,FOR TOSHIBA)	
J301	F736300013	JACK H/P	TC38-933-01	
LD705、LD706、LD707	DLGE4B115B	LED	LGE4B115 BLUE Φ2.8	OPTION
LD709	DZLR332VC3F	LED	SLR332VC3F(RED)PI3	
LD710、LD711、LD712、	DLGE4B115B	LED	LGE4B115 BLUE Φ2.8	OPTION
LD713、LD714、LD715	DLGE4B115B	LED	LGE4B115 BLUE Φ2.8	OPTION
Q700	TZTA1273Y-	TR	KTA1273Y (A966Y) (KSA928A-Y) (STB1277Y)	
SW701、SW702、SW703	5S50101Z67A-2	SW TACT	THVV502GAA	
SW704、SW705、SW706	5S50101Z67A-2	SW TACT	THVV502GAA	
SW707、SW708、SW709	5S50101Z67A-2	SW TACT	THVV502GAA	
SW710、SW711、SW712	5S50101Z67A-2	SW TACT	THVV502GAA	
SW713、SW714、SW715	5S50101Z67A-2	SW TACT	THVV502GAA	
SW716、SW717、SW718	5S50101Z67A-2	SW TACT	THVV502GAA	
SW719	5S50101Z67A-2	SW TACT	THVV502GAA	
VR701	5SH1224375	SW ENCORDER	RE0123PVB25FINB 1-2-24 PCE	
X701	5XA32R768CCQ	X-TAL	SF-32.768-JU3820	

◆◆◆◆◆◆PCB USB&AUX JACK ASS'Y FOR NC-8112E/NC-8114E/NC-8115E/NC-8117E◆◆◆◆◆◆

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-8112E/NC-8114E/NC-8115E/NC-8117E◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
HD051、HD052	DZDS160---	DIODE SW CHIP	KDS160(KDS511)	
IC105	1RZ5B800--	IC TUNER	RZ5B800-0001(TSSOP)	
L052	5LR000F002	COIL IFT	IFT-78K-481A-00-LF	
X104	5XE12M000J	CRYSTAL QUARTZ	12.000MHz	

◆◆◆◆◆◆PCB MP3CD FOR NC-8112E/NC-8114E/NC-8115E/NC-8117E◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
D500	DIN4001---	DIODE	IN4001	
D501、D502	W581GY12J5	WIRE JUMPER	AWG22 1/0.65 SN 12.5 AUTO	
HD500、HD501、HD502	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)	
HQ500	TZTA1504S-	TR CHIP	KTA1504S(2SA1980SFY)	
HQ503、HQ504、HQ509	TZTC3875S-	TR CHIP	KTC3875Y(2SC5343SY)	
HQ508	TZRC107S--	TR CHIP	KRC107S(SRC1207S)	
IC500	1M5675----	IC	M5675	
IC501	1EN25F20--	IC FLASH	EN25F20	
IC502	1SA5888---	IC MOTOR DRIVER	SA5888	
Q500、Q507	TZTA1273Y-	TR	KTA1273Y (A966Y) (KSA928A-Y) (STB1277Y)	
Q501	TZS8550Y--	TR	S8550	
X500	5PQZTT1693	RESONATOR CERA	QTTT16.93MMX(3PIN)	

◆◆◆◆◆◆PCB SMPS ASS'Y FOR NC-8112E◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
CM901	CMXK2J472K	C MYLAR	630V/472K	
CX901、CX902	CL1BB3334K	C CERA (X-CAP)	275V 334(X-CAP) 436D	
D901	DKBP310G--	DIODE	KBP310G	
D902、D903、D906、D907	DHER108S--	DIODE	HER108S A-405 TYPE(HER108G)	
D908、D911	DHER108S--	DIODE	HER108S A-405 TYPE(HER108G)	
D904	DSR504----	DIODE	SR504(40V 5A)	
D905	DSF24G----	DIODE	SF24G(200V 2A)	
D909、D910	DSR320----	DIODE	SR320(200V 3A)/（SR3200 MIC)	
D915	DSR106----	DIODE(Schottky)	SR106 (200V 3A)/ SR160 MIC)	
DZ901	DZTZ16B---	DIODE(Zener)	UZ16BSB	
DZ902	DP6KE200A-	DIODE(TVS)	P6KE200A	
DZ903	DZTZ5R1B--	DIODE(Zener)	MTZ-5.1V B 0.5W (AUTO)	

DZ904、DZ905、DZ906	DZTZ9R1B--	DIODE(Zener)	MTZ-9.1V B 0.5W (AUTO)	
F901	5FFPS3122S	FUSE	250V 3.15A TL	
IC901	1TOP248YN-	IC(Switching)	TOP-248YN	
IC902	1ET1103---	IC(Photocoupler)	ET1103/PC-17K1-BB	
IC904	1TL431A---	IC(Shunt Regulator)	TL431	
IC905	1KIA7912AP	IC	KIA7912PI	
L901、L902	5LF223N895	COIL LINE FILTER	SQ23120	
L903	5LC220K864	COIL CHOKE	22uH(1A)	
L904	5LC339N863	COIL CHOKE	3.3uH(5A)	
PT901	5TMW035015	TRANS POWER	EER-3535 NC-8112	
Q901	TKTD1691--	TR	KTD1691-Y	
Q902	TQM3002P--	FET	QM3002P	
Q903	TZTC3205Y-	TR	KTC3205Y(2236Y / STD1862LY）	
Q904	TZTA1274Y-	TR	KTA1274Y	
Q905	TZTC3198Y-	TR	KTC3198Y (2SC5343) AUTO	
TH901	DNTC-3D15F	THERMISTER	NTC-3D15F	
VA901	D471D14AS-	VARISTOR	SVR471D14AS25	

◆◆◆◆◆◆PCB SMPS ASS'Y FOR NC-8114E/NC-8115E◆◆◆◆◆◆

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、D917	DHER108G--	DIODE(UFR)	HER108G(HER108S)	
D918、D923、D924	DHER108G--	DIODE(UFR)	HER108G(HER108S)	
D911、D913	DSR504----	DIODE	SR504	
D914、D916	DSR106----	DIODE(Schottky)	(SR106 / SR160 MIC)	
DZ903	DP6KE200A-	DIODE(TVS)	P6KE200A	
DZ906	DZTZ5R1B--	DIODE ZENER	MTZ-5.1V B 0.5W (AUTO)	
DZ911	DZTZ22B---	DIODE(Zener)	UZ22BSB	
DZ912	DZTZ3R3B--	DIODE(Zener)	UZ3.3BSB	
DZ913、DZ914	D1N5246B--	DIODE(ZENER)	IN5246B(16V)	
F901	5FFPS5022S	FUSE	250V 5.0A TL	
IC901	1TNY280PN-	IC	TNY280PN	
IC902	1TL431A---	IC(Shunt Regulator)	TL431	
IC904	1TOP248YN-	IC(Switching)	TOP-248YN	Only NC-8114E
IC904	1TOP250Y--	IC(Switching)	TOP-250Y	Only NC-8115E
IC909、IC912、IC913	1ET1103---	IC(Photocoupler)	ET1103/PC-17K1-BB	
IC910	1S7912P1--	IC	S7912PI / KIA7912PI	
L904	5LC220K864	COIL CHOKE	22uH(1A)	
L905	5LF203N865	COIL LINE FILTER	KS-2930A1 LINE FILTER	
L906	5LC369K875	COIL CHOKE	SPC548, 3.3uH(10A)	
L908、L909	W581GY5095	WIRE JUMPER	AWG22 1/0.65 SN 5 AUTO	
PT901	5TMW028014	TRANS POWER	EER-2828 NC-8115 Sub	
PT902	5TMW040013	TRANS POWER	EER-4042 NC-8115 Main	
Q901、Q905	TZTC3198Y-	TR	KTC3198Y (2SC5343) AUTO	
Q902	TQM3002P--	FET	QM3002P	
Q903	TZTA1274Y-	TR	KTA1274Y	
Q904	TKTD1691--	TR	KTD1691-Y	
Q906	TZTC3205Y-	TR	KTC3205Y(2236Y) / STD1862LY	
Q907	TZRC107M--	TR	KRC107M AUTO	
Q908	TZRA111M--	TR	KRA111M	
TH901	DNTC-3D15F	THERMISTER	NTC-3D15F	
VA901	D1NR10D471	VARISTOR	1NR10D471	

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◆◆◆◆◆◆PCB SMPS ASS'Y FOR NC-8117E◆◆◆◆◆◆

Location	Part Code	Part Name	Description	Remark
CM901、CM904	CMXK2J472K	C MYLAR	MC 630V 4700MF J	
CM902、CM951	CMXM2A104J-X	C MYLAR	100V 0.1MF J	
CM905	CMXM2A102J-X	C MYLAR	100V 1000PF J	
CX901、CX903	CL1BB3334K	C CERA(X-CAP)	275V 334(X-CAP)436D	
D901、D902、D904、D906	DHER108S--	DIODE	HER108S A-405 TYPE (HER108G)	
D907、D954、D956、D957	DHER108S--	DIODE	HER108S A-405 TYPE (HER108G)	
D960	DHER108S--	DIODE	HER108S A-405 TYPE (HER108G)	
D905、D961、D962、D963	DZN4148---	DIODE	1N4148 AUTO 52MM	
D909、D958	DGBJ1006--	DIODE BRIDGE	GBJ1006	
D951	DMBR20200C	DIODE(Schottky)	MBR20200TG	
D959	DSR304----	DIODE(Schottky)	(SR304 / SR340 MIC)	
DZ901	DZTZ6R2B--	DIODE ZENER	MTZ-6.2V B 0.5W (AUTO)	
DZ903、DZ904	DZTZ33B---	DIODE ZENER	MTZ-33V B 0.5W (AUTO)	
DZ908	DZTZ3R3B--	DIODE ZENER	MTZ-3.3V B 0.5W (AUTO)	
DZ951	DZTZ22B---	DIODE ZENER	MTZ-22V B 0.5W (AUTO)	
DZ952	DZTZ6R8B--	DIODE ZENER	MTZ-6.8V B 0.5W (AUTO)	
DZ954	DZTZ5R1B--	DIODE ZENER	MTZ-5.1V B 0.5W (AUTO)	
DZ955	DZTZ8R2B--	DIODE ZENER	MTZ-8.2V B 0.5W (AUTO)	
F901	5FSGB1032L	FUSE GLASS TUBE	T 250V 10A L	
FC901、FC902	9734600800	HOLDER FUSE CLIP	PI5.2 - REEL	
IC901、IC902	1TL431A---	IC(Shunt Regulator)	TL431	
IC903、IC904、IC905	1ET1103---	IC(Photocoupler)	(ET1103/PC-17K1-BB)	
IC906	1STRX6759N	IC	STR-X6759N	
IC907	1STRA6053M	IC	STR-A6053M	
IC909	1K1A7805AP	IC	KIA7805AP	
L901、L903	5LF203N865	COIL LINE FILTER	KS-2930A1 LINE FILTER	
L951	5LC369K875	COIL CHOKE	SPC548, 3.6uH(10A)	
L952	5LC459K872	COIL CHOKE	SPC555, 4.5uH/6A	
L953、L954、L955、L956	5LC220K864	COIL CHOKE	22uH(1A)	
L957	5LC220K864	COIL CHOKE	22uH(1A)	
PT901	5TMW028021	PT SUB	EER-2828 NC-8117 SUB	
PT902	5TMW042011	PT MAIN	EER-4942 NC-8108/8117 MAIN	
Q901、Q955	TZTA1273Y-	TR	KTA1273Y(966Y)	
Q951、Q952、Q953	TZTC3205Y-	TR	KTC3205Y(2236Y) / STD1862LY	
Q954、Q956	TZRC107M--	TR	KRC107M AUTO	
Q957	TQM3002P--	FET	QM3002P	
Q958、Q959、Q960	TZRA111M--	TR	KRA111M	
Q961	TZTA1980Y-	TR	KTA1980Y-(AUTO)(A1266Y/1015Y)	
TH901	DNTC10D15F	THERMISTER	10D-15	
VA901	D1NR10D471	VARISTOR	1NR10D471	

*** END OF REPORT ***

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