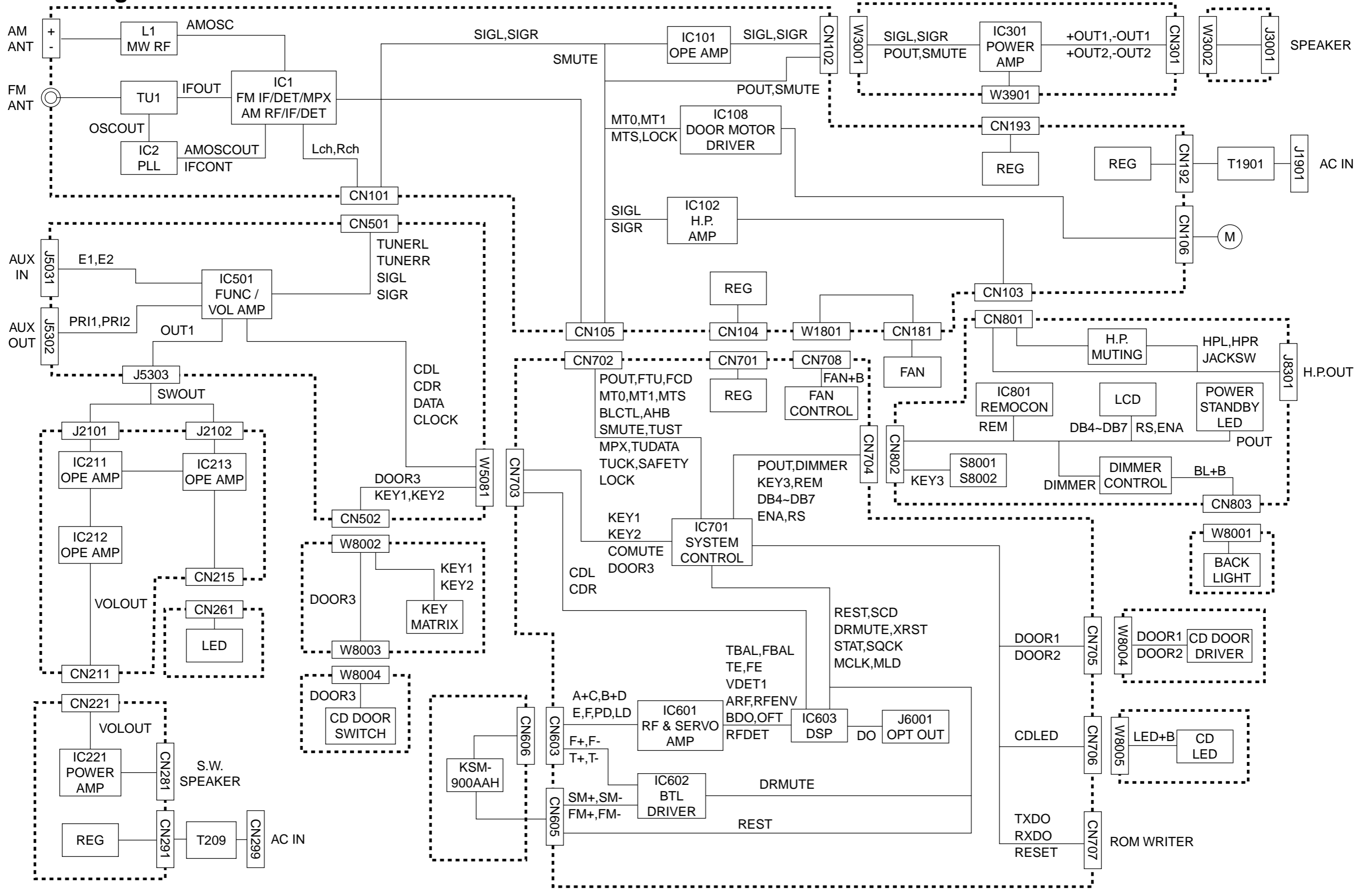
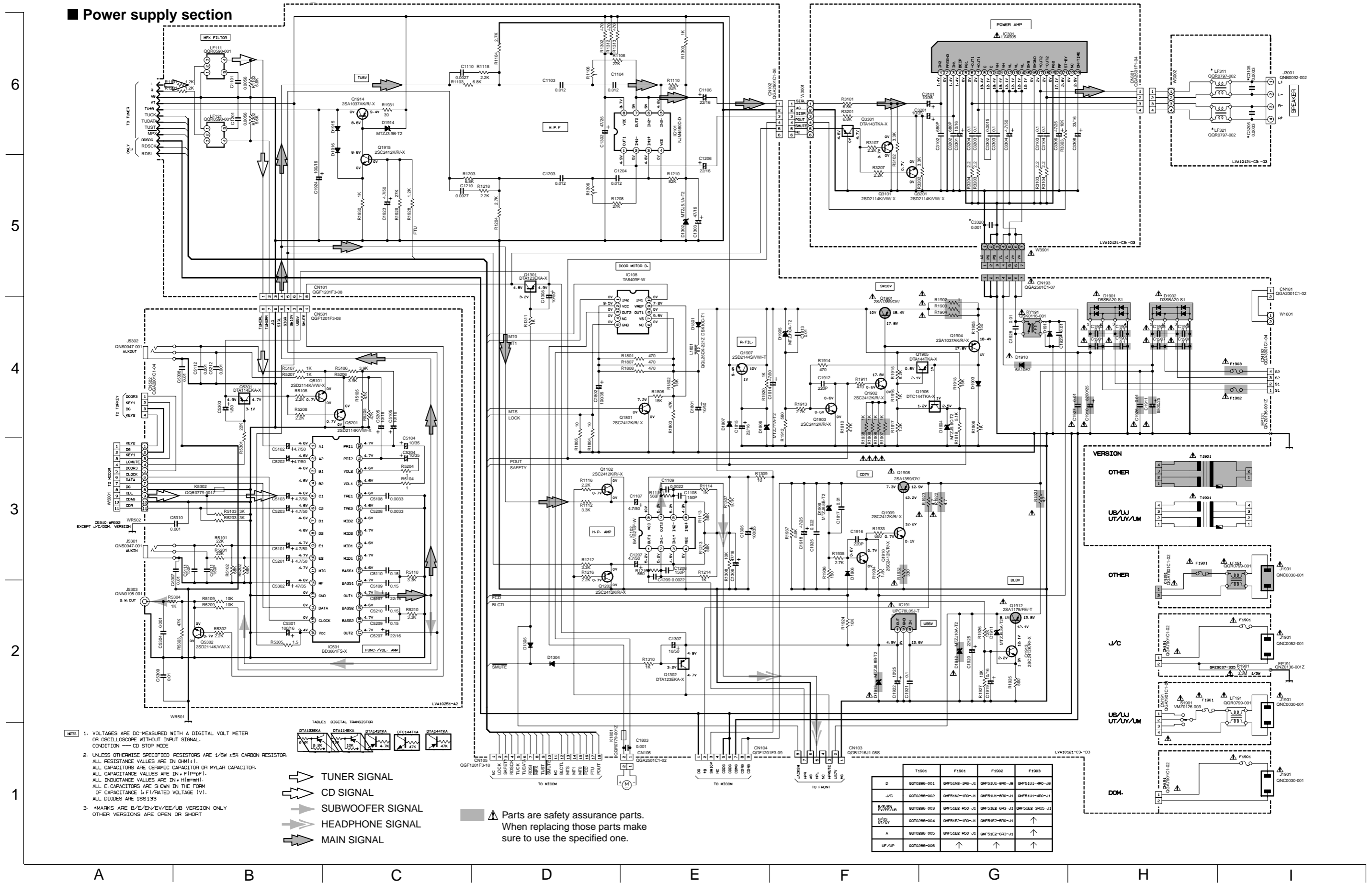


# Block diagram



# Standard schematic diagrams

## Power supply section



- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION — CD STOP MODE
  2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM (Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN nF (pF). ALL INDUCTANCE VALUES ARE IN mH (mH). ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (C) / RATED VOLTAGE (V). ALL DIODES ARE 1S1533
  3. \*MARKS ARE B/E/EN/EE/EE/US VERSION ONLY OTHER VERSIONS ARE OPEN OR SHORT

TABLE 1 DIGITAL TRANSISTOR

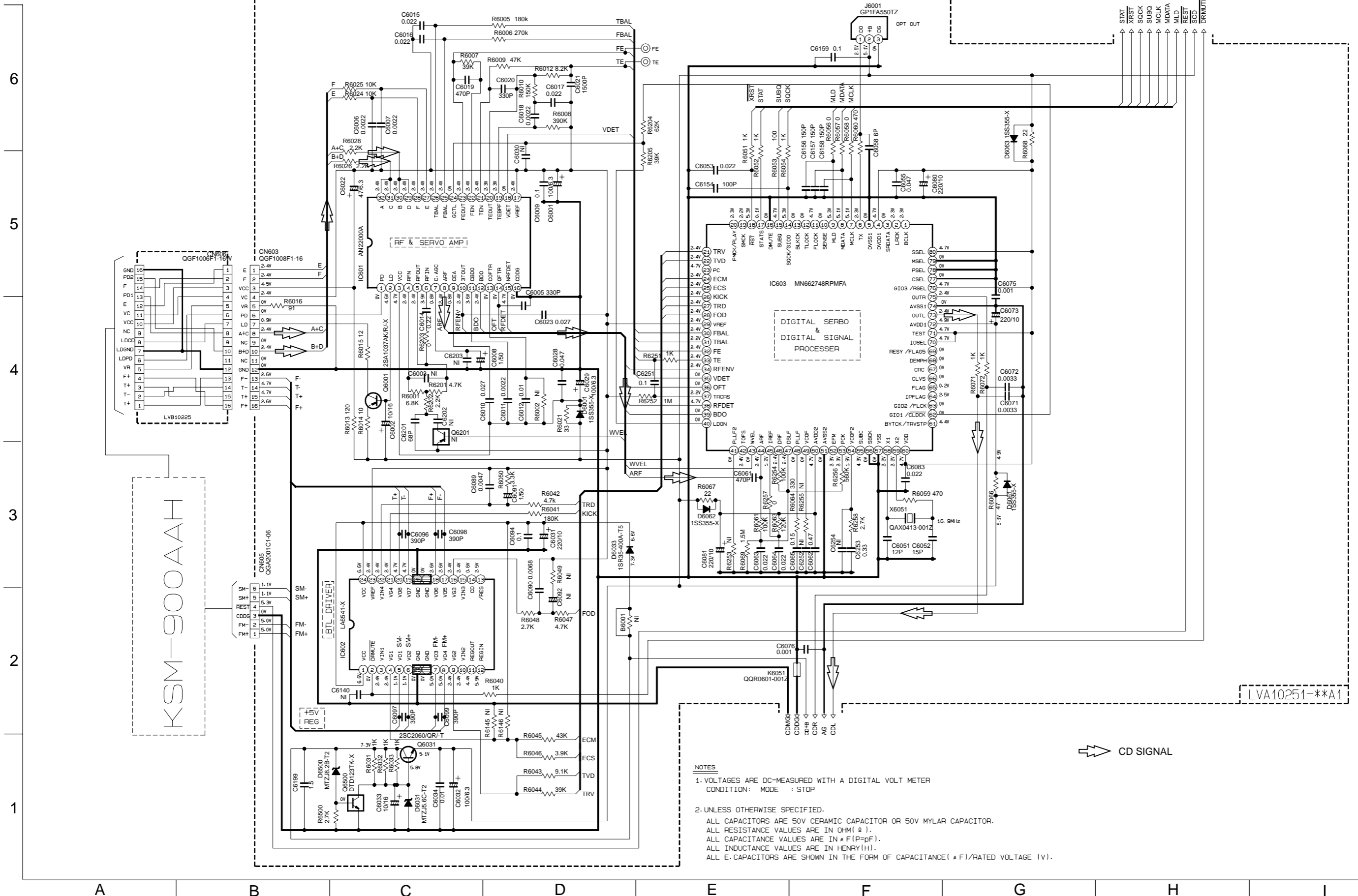
D1A128KA	D1A148KA	D1A148KA	D1A144KA	D1A144KA
2.2K	10K	4.7K	4.7K	4.7K

- TUNER SIGNAL
- CD SIGNAL
- SUBWOOFER SIGNAL
- HEADPHONE SIGNAL
- MAIN SIGNAL

Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

	T1901	F1901	F1902	F1903
D	QGT0286-001	QMF51E2-1R6-U1	QMF51U1-8R0-U8	QMF51U1-4R0-U8
J/C	QGT0286-002	QMF51E2-1R0-U1	QMF51U1-8R0-U1	QMF51U1-4R0-U1
B/E/EN/EE/US	QGT0286-003	QMF51E2-R50-U1	QMF51E2-6R3-U1	QMF51E2-3R15-U1
A	QGT0286-004	QMF51E2-1R0-U1	QMF51E2-5R0-U1	↑
UF/JP	QGT0286-005	QMF51E2-R50-U1	QMF51E2-6R3-U1	↑
	QGT0286-006	↑	↑	↑

CD servo control section



- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER  
CONDITION: MODE : STOP
  2. UNLESS OTHERWISE SPECIFIED.  
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITANCE VALUES ARE IN PICO(F=pF).  
ALL INDUCTANCE VALUES ARE IN HENRY(H).  
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

⚡ CD SIGNAL

**LCD & Key control section**

6

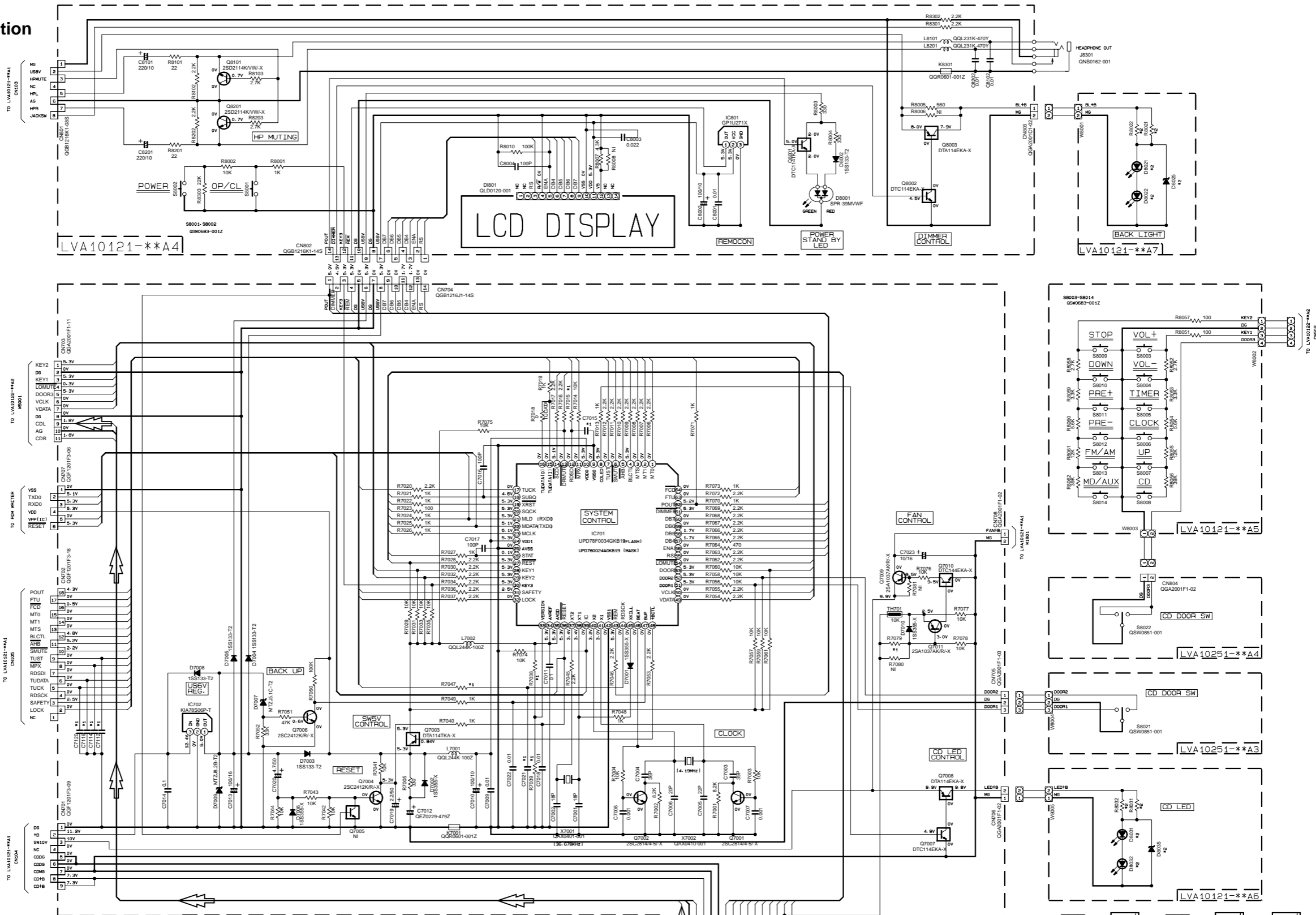
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**NOTES**

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION — CD STOP AT AC SUPPLY  
VOL: 16 BASS: 0 TREBLE: 0 AHB: ON DIMMER: OFF
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/10W (OR 1/16W) ±5% MΩ RESISTOR.  
ALL RESISTANCE VALUES ARE IN Ω(M) (i.e.).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN nF (pF).  
ALL INDUCTANCE VALUES ARE IN μH (mH).  
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

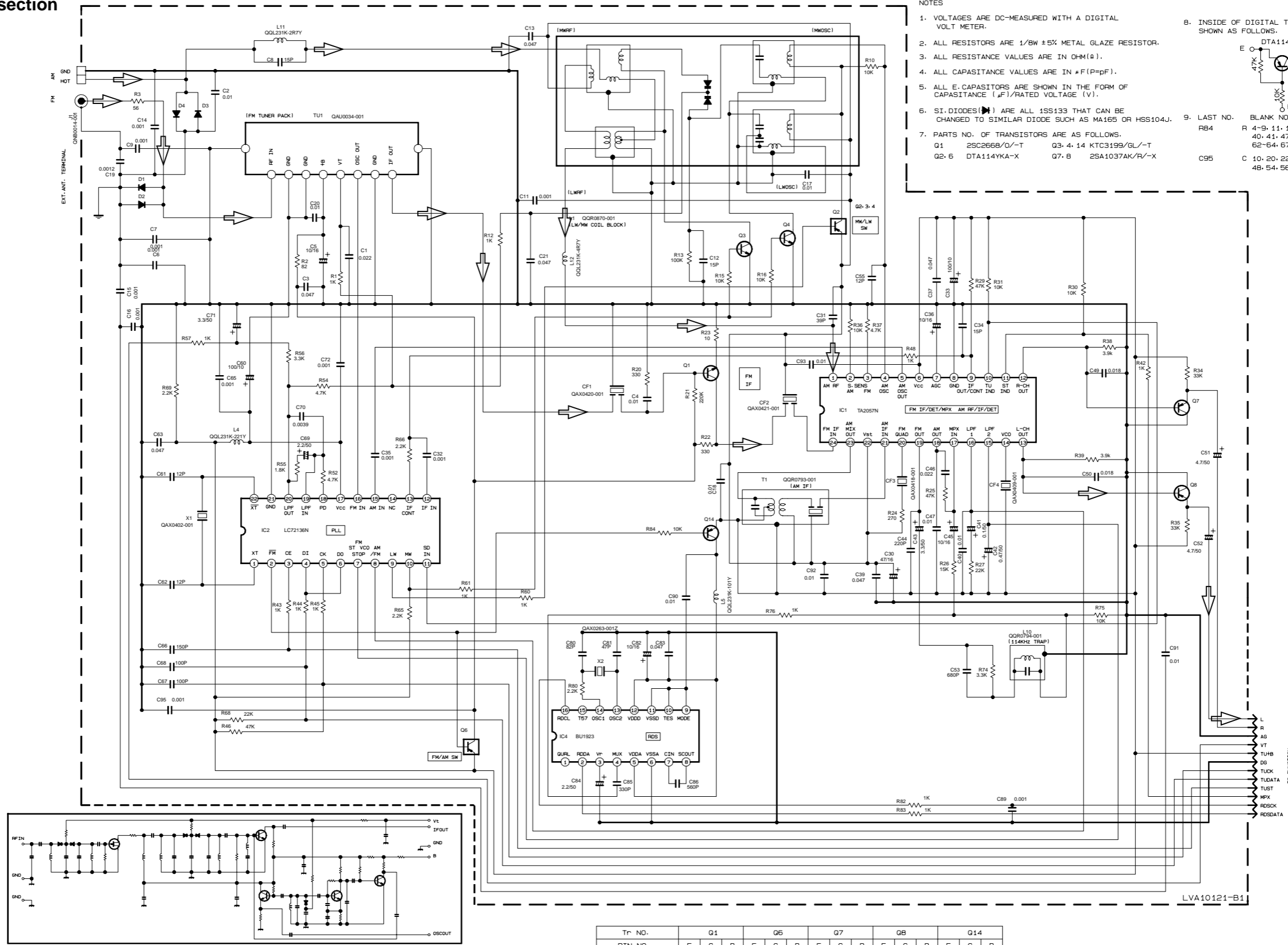
	US	UY/UW	UT/FP/W/W/6	J/C	EE	A	B/E/EN/EV	D0
R7038	27K	68K	27K	47K	12K	4.7K	10K	-
R7039	4.7K	27K	4.7K	33K	27K	27K	-	10K
R7015	-	-	-	-	1K	-	1K	-
C7015	-	-	-	-	100P	-	100P	-
R7047	-	-	-	-	1K	-	1K	-
C7021	-	-	-	-	100P	-	100P	-
C7112, C7114, C7119, C7120	100P	100P	100P	-	-	-	-	-
R7079	6.8K	5.1K	5.1K	5.1K	5.1K	5.1K	5.1K	5.1K

	FS-SD51(R)/7(R)	FS-SD9(R)
DB021, DB022	SELU1E50CM	TLYH156P
DB025	MTZJ10C-T2	-
RB021, RB022	100	390
DB031, DB032	SELU1E56M	TLYH156P
DB035	MA3100/W-X	-
RB031, RB032	430	560



A B C D E F G H I

**Tuner section**



- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
  2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
  3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
  4. ALL CAPACITANCE VALUES ARE IN pF(P=pF).
  5. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
  6. SI-DIODES (▶) ARE ALL 1S133 THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
  7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.  
Q1 2SC2668/O/-T Q3-4 14 KTC3199/GL/-T  
Q2-6 DTA114YKA-X Q7-8 2SA1037AK/R/-X
  8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.  
E O DTA114YK C  
47K 47K  
10K 10K  
O B
  9. LAST NO. BLANK NO.  
R 4-9, 11, 14, 17-19, 28, 32, 33  
40, 41, 47, 49-51, 53, 58, 59  
62-64, 67, 70-73, 77-79, 81  
C 10, 20, 22-29, 38  
48, 54, 56-59, 64, 73-79, 87, 88

CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
	FM 60GB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
IC2	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
	FM NO SIGNAL	2.4	0	0	5.1	5.0	5.1	3.7	3.7	2.0	3.8	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7		
IC4	FM NO SIGNAL	2.0	2.5	2.5	2.5	5.0	0	2.5	2.5	0	0	0	5.0	2.4	2.4	2.5	2.5								

Tr. NO.	Q1			Q6			Q7			Q8			Q14		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
FM 87.5MHZ NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1	5.1	5.1	4.5
AM 522KHZ NO SIGNAL	0	0	0	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1	5.1	5.1	8.7

Tr. NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHZ NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
AM 144KHZ NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

➡ TUNER SIGNAL

A B C D E F G H I

Sub woofer amp section

NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
- UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/4W ±5% CARBON RESISTOR. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN μF(P=0F). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V). ALL INDUCTANCE VALUES ARE IN μH(m=mH).

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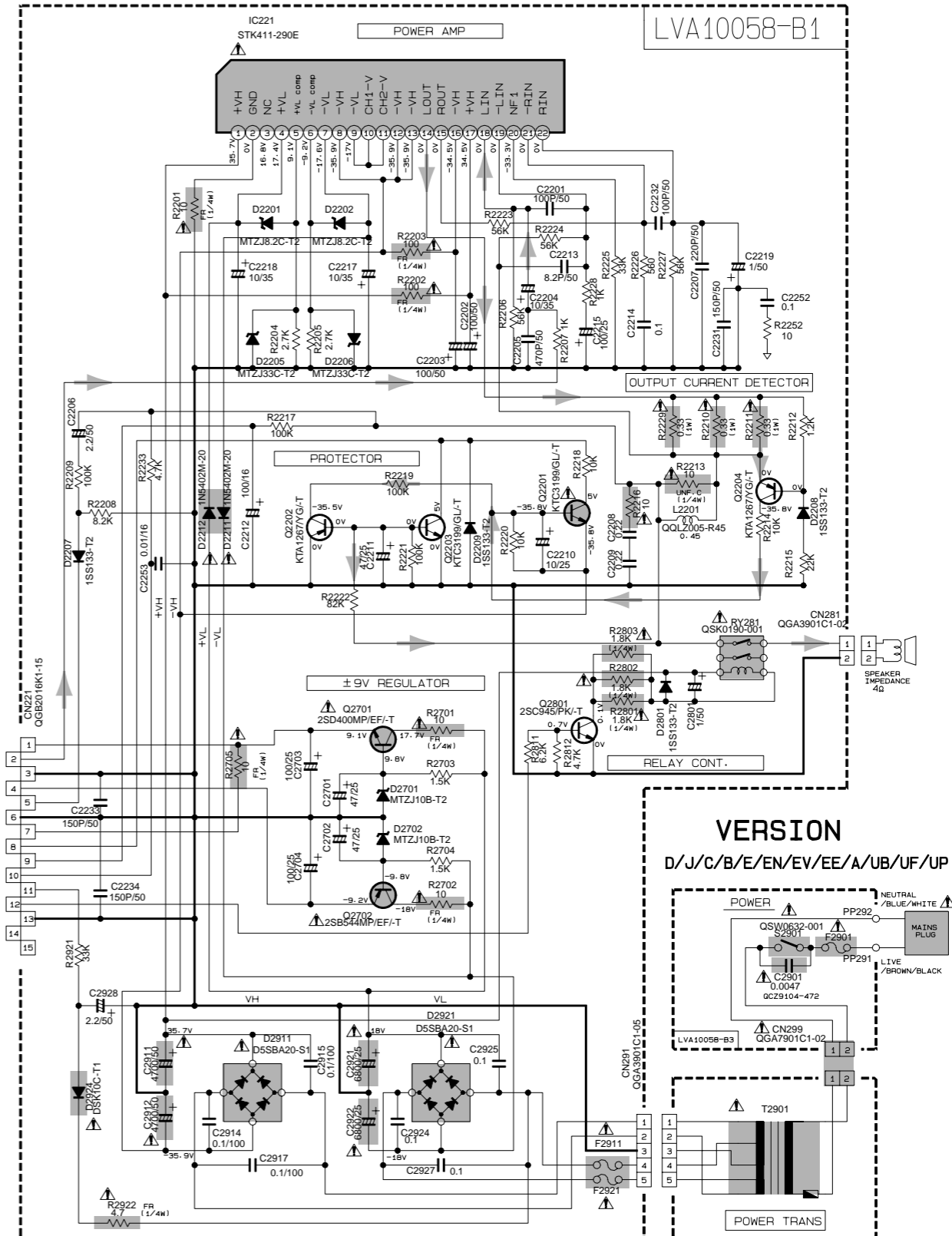
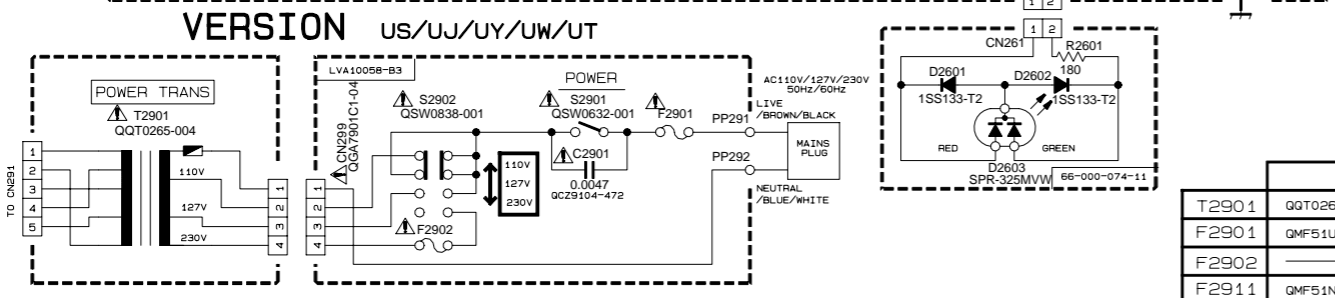
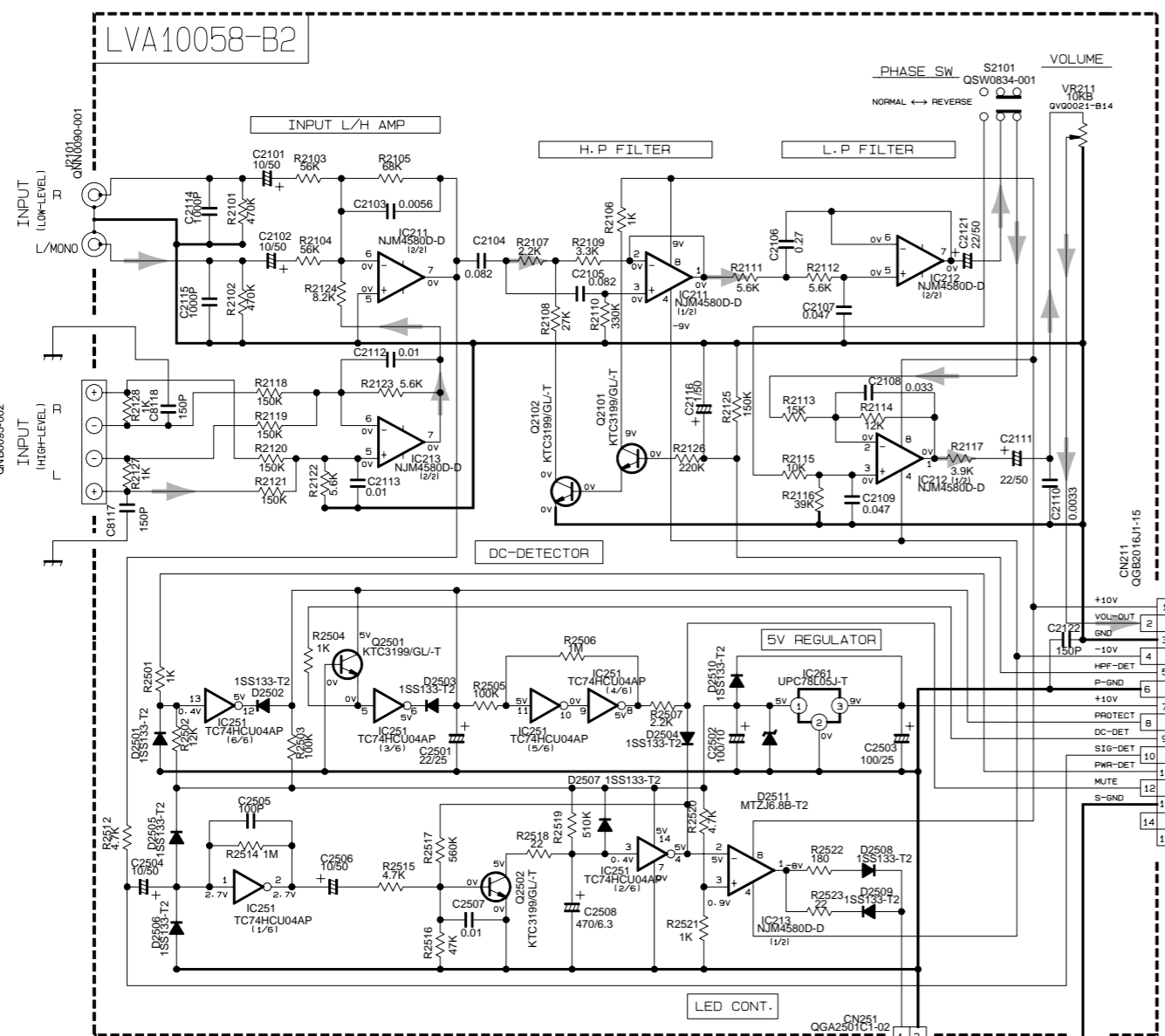
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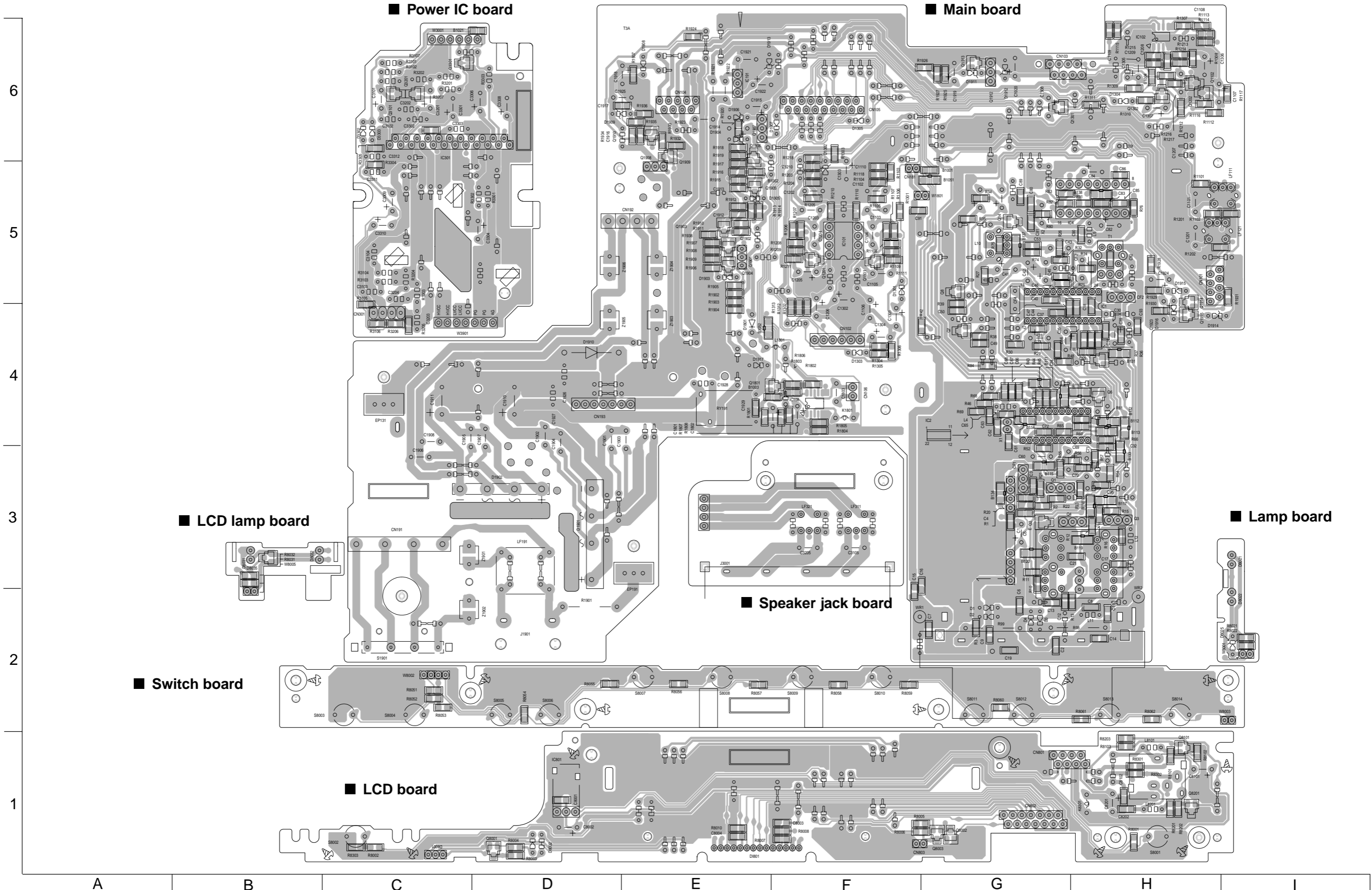
A B C D E F G H I

	D	J/C	B/E/EN/VE/UB	US/UJ/UJ/UT/UW	UF/UP	A
T2901	QGT0265-001	QGT0265-002	QGT0265-003	QGT0265-004	QGT0265-005	QGT0265-006
F2901	GMF51U1-2R5-J1	GMF51N2-2R0-J1	GMF51E2-1R0-J1	GMF51E2-1R6-J1	GMF51E2-1R0-J1	GMF51E2-1R0-J1
F2902				GMF51E2-1R0-J1		
F2911	GMF51N2-2R0-J1	GMF51N2-1R6-J1	GMF51E2-1R6-J1	GMF51E2-1R25-J1	GMF51E2-1R6-J1	GMF51E2-1R6-J1
F2921	GMF51N2-2R0-J1	GMF51N2-1R6-J1	GMF51E2-1R6-J1	GMF51E2-1R25-J1	GMF51E2-1R6-J1	GMF51E2-1R6-J1

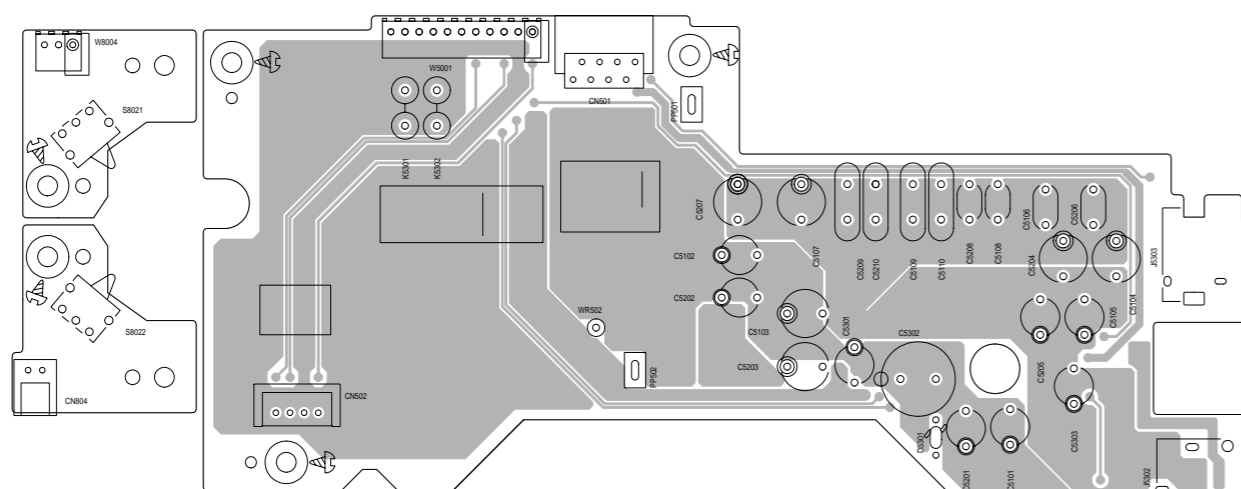
Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

SUBWOOFER SIGNAL

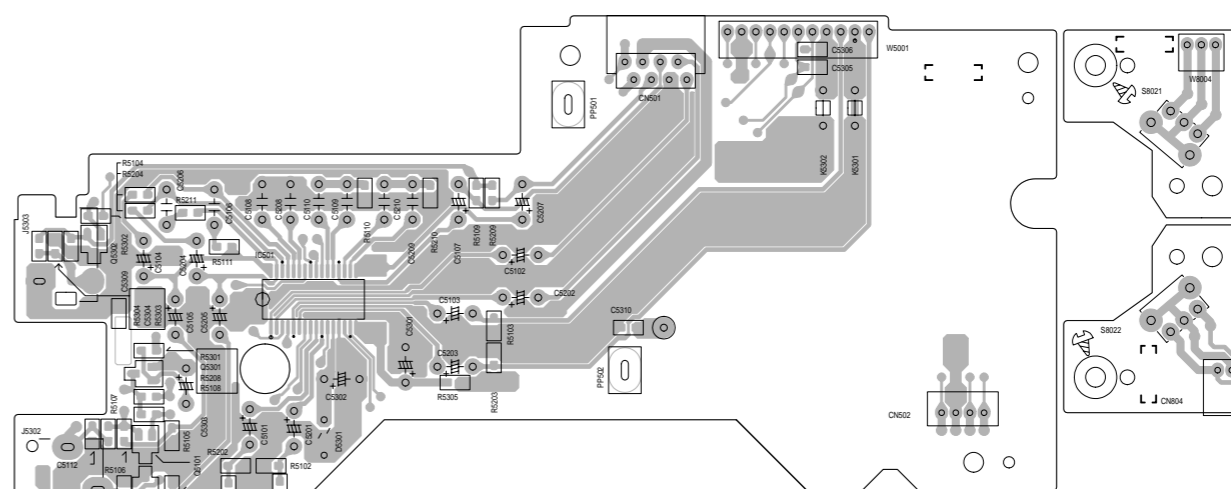
# Printed circuit boards



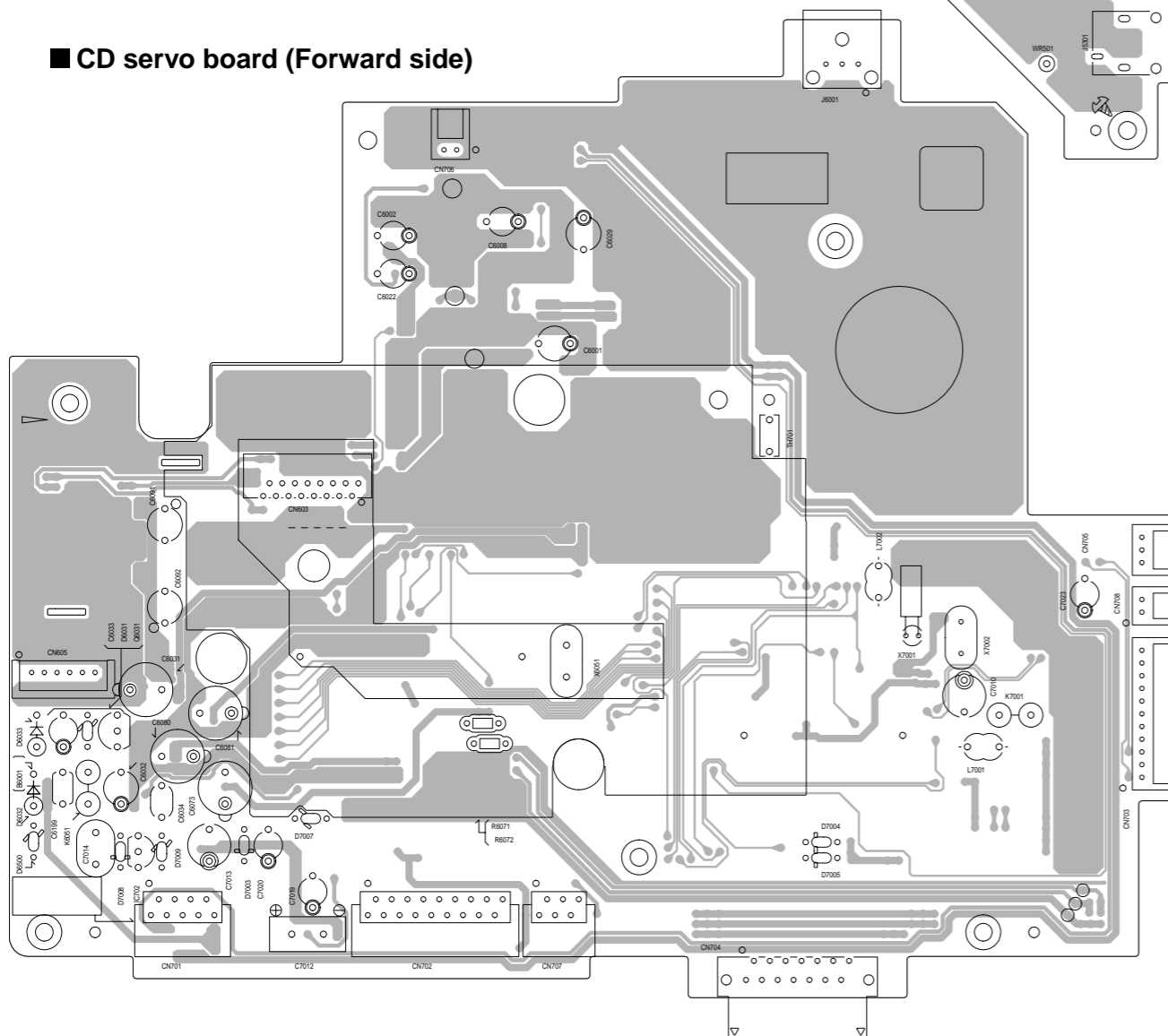
Line board (Forward side)



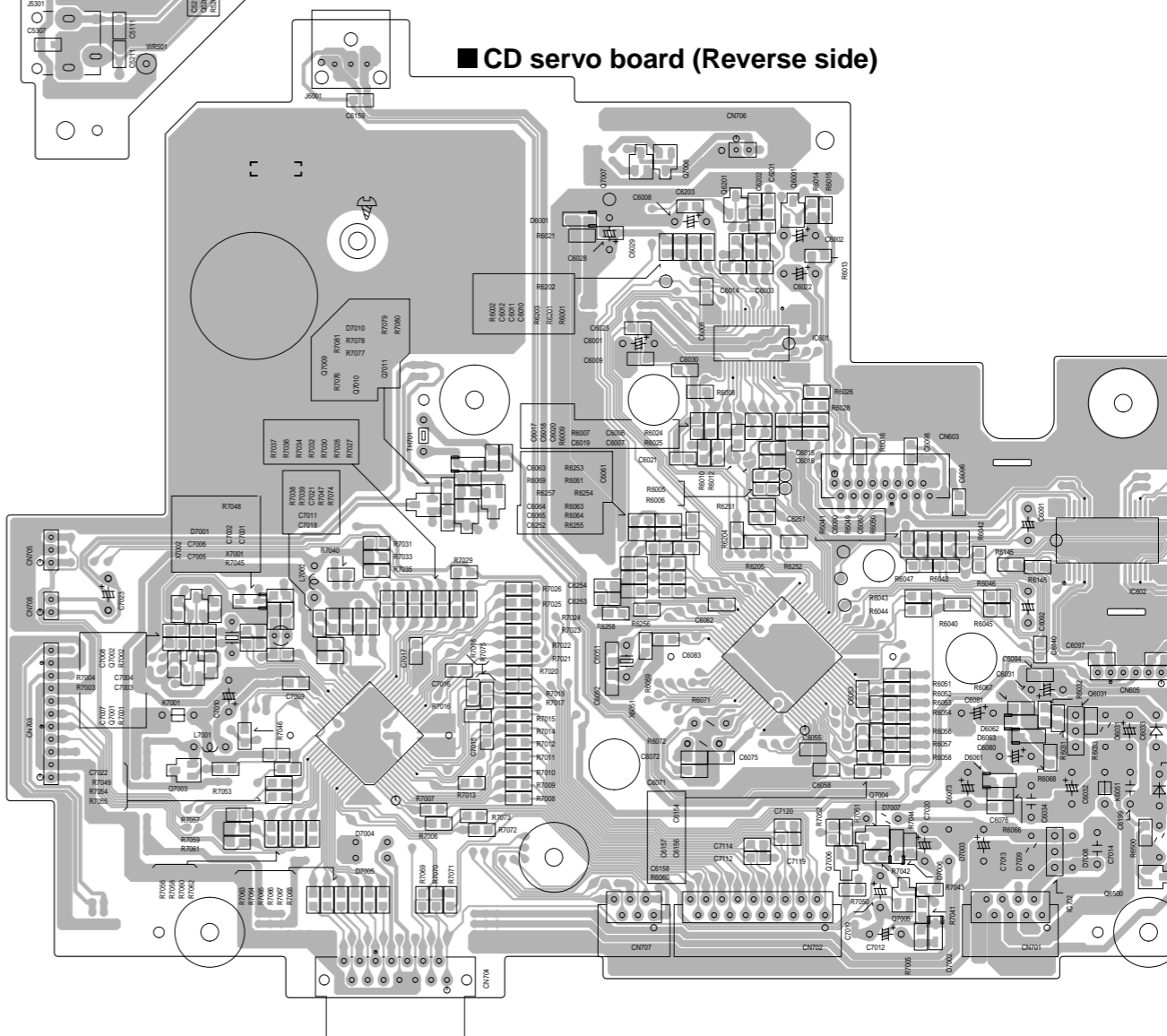
Line board (Forward side)



CD servo board (Forward side)



CD servo board (Reverse side)

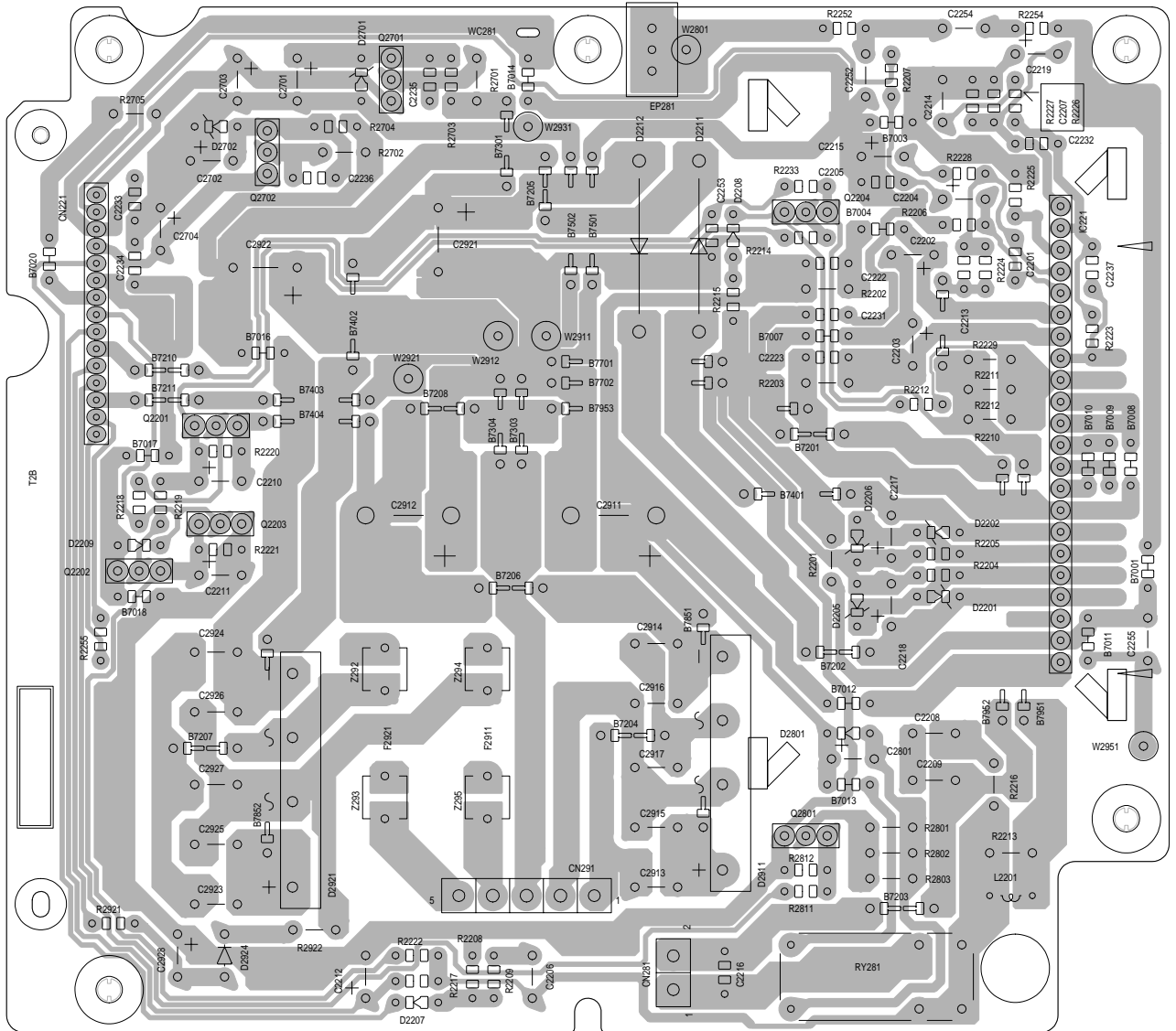


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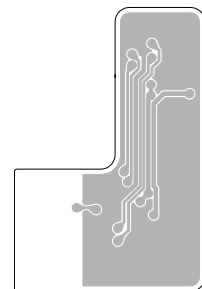
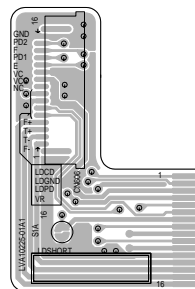
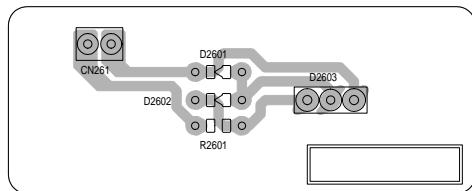


■ Subwoofer power amp board



■ Sub board (Forward side)

■ Subwoofer LED board



■ Sub board (Reverse side)

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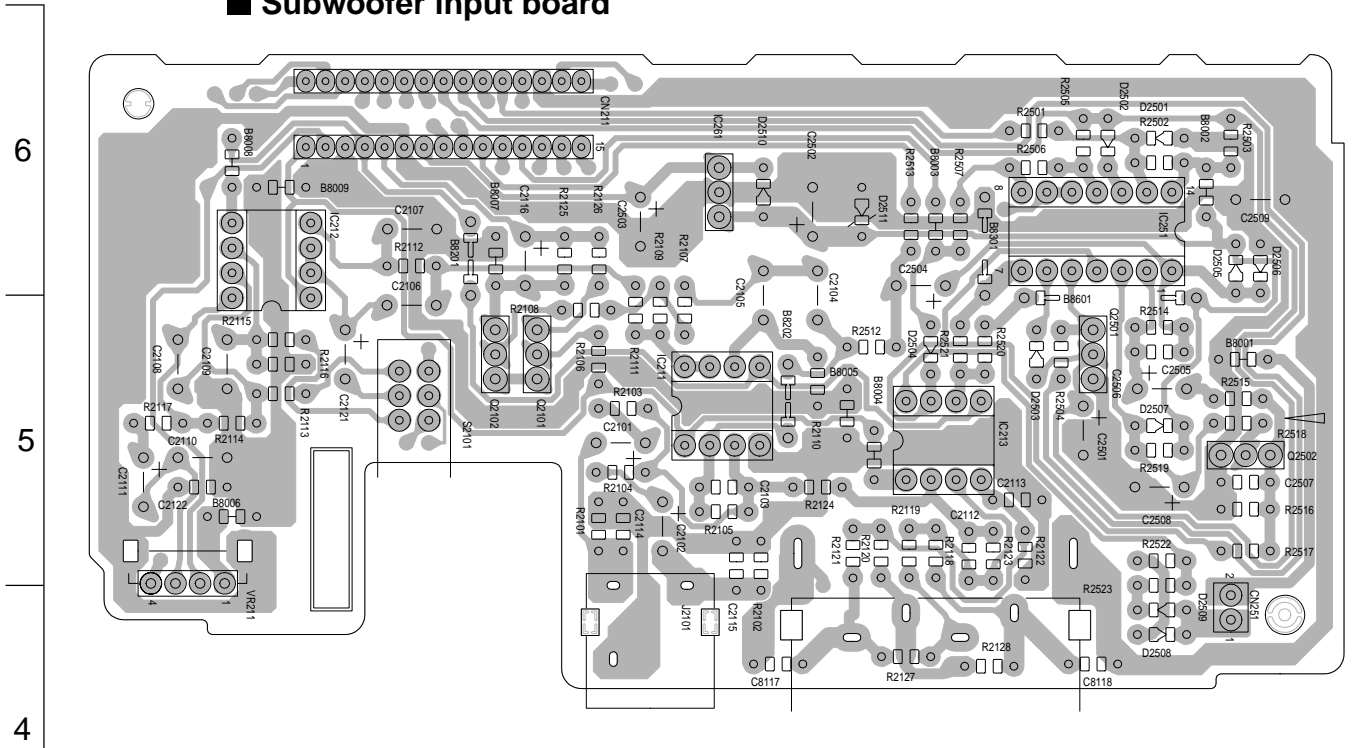
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D

E

**Subwoofer input board**



**Subwoofer power supply board**

