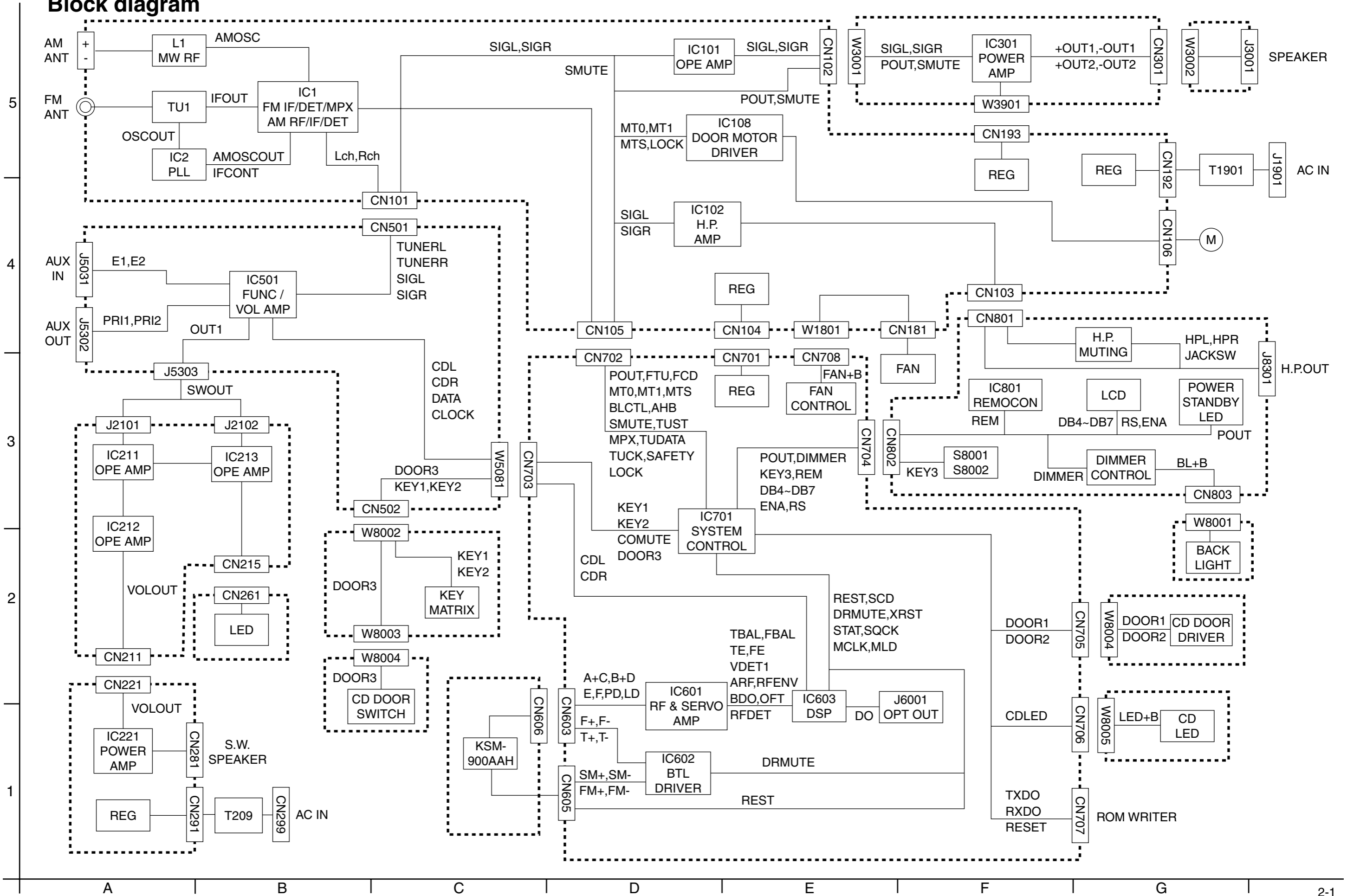


Block diagram



Standard schematic diagrams

Power supply section

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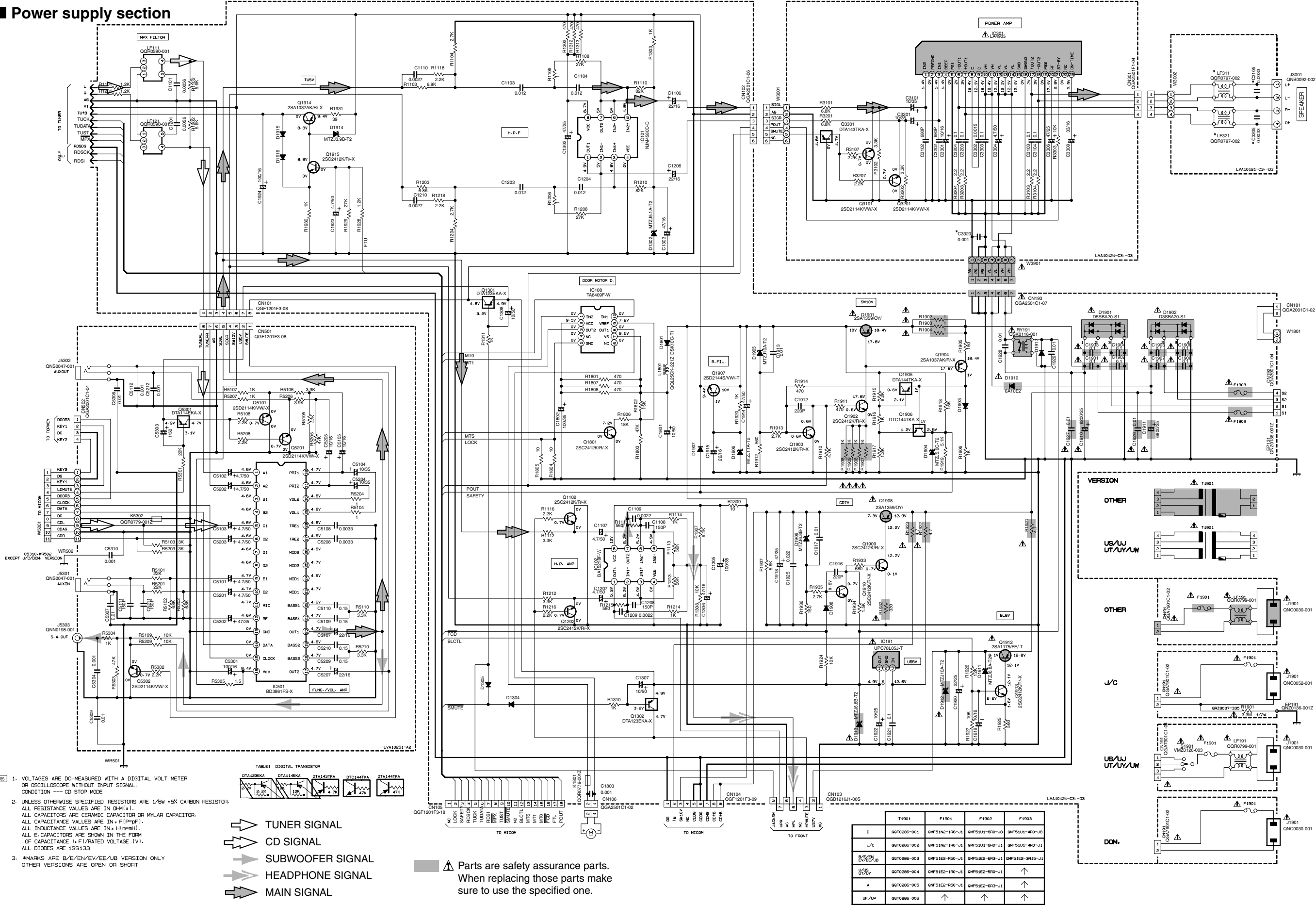
- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION — CD STOP MODE
 2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/6W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN Ω(M|k|). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN p(F|µP|µF). ALL INDUCTANCE VALUES ARE IN m(H|µH|). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (µF)/RATED VOLTAGE (V). ALL DIODES ARE 1SS133
 3. *MARKS ARE B/E/EN/VE/EE/UB VERSION ONLY OTHER VERSIONS ARE OPEN OR SHORT

TABLE1 DIGITAL TRANSISTOR

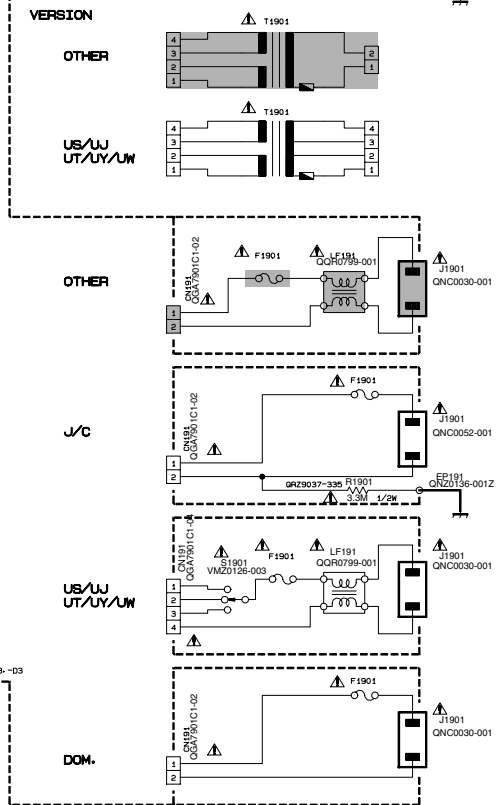
DTA123EKA	DTA114EKA	DTA143TKA	DTG144TKA	DTA144TKA
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- TUNER SIGNAL
- CD SIGNAL
- SUBWOOFER SIGNAL
- HEADPHONE SIGNAL
- MAIN SIGNAL

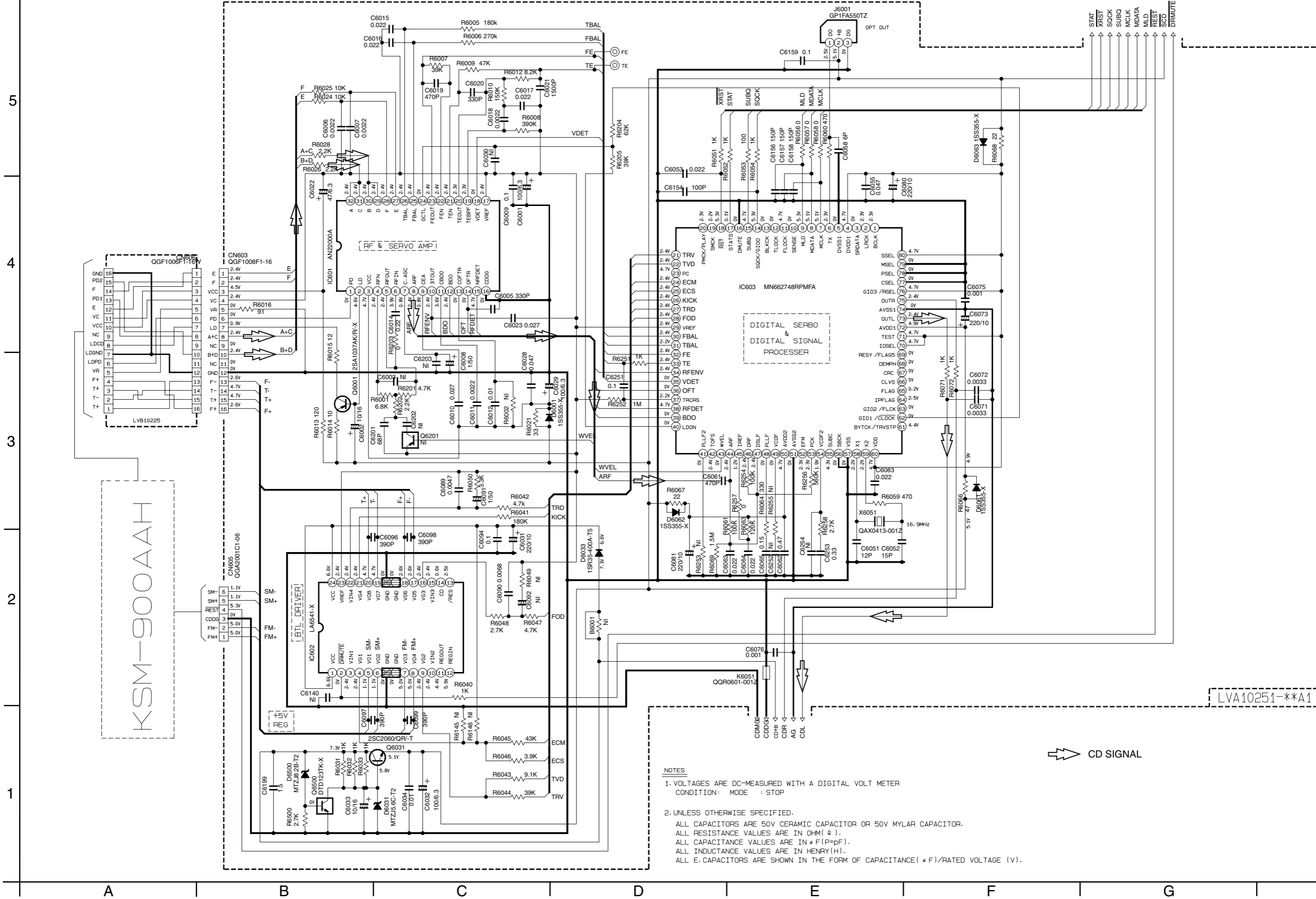
Parts are safety assurance parts. When replacing those parts make sure to use the specified one.



	T1901	F1901	F1902	F1903
D	0G20286-001	0M5192-1R0-J1	0M5191-8R0-J8	0M5191-4R0-J8
J/C	0G20286-002	0M5192-1R0-J1	0M5191-8R0-J1	0M5191-4R0-J1
J/C	0G20286-003	0M5192-R50-J1	0M5192-6R3-J1	0M5192-3R15-J1
U/S	0G20286-004	0M5192-1R0-J1	0M5192-5R0-J1	↑
A	0G20286-005	0M5192-R50-J1	0M5192-6R3-J1	↑
UF/LP	0G20286-006	↑	↑	↑



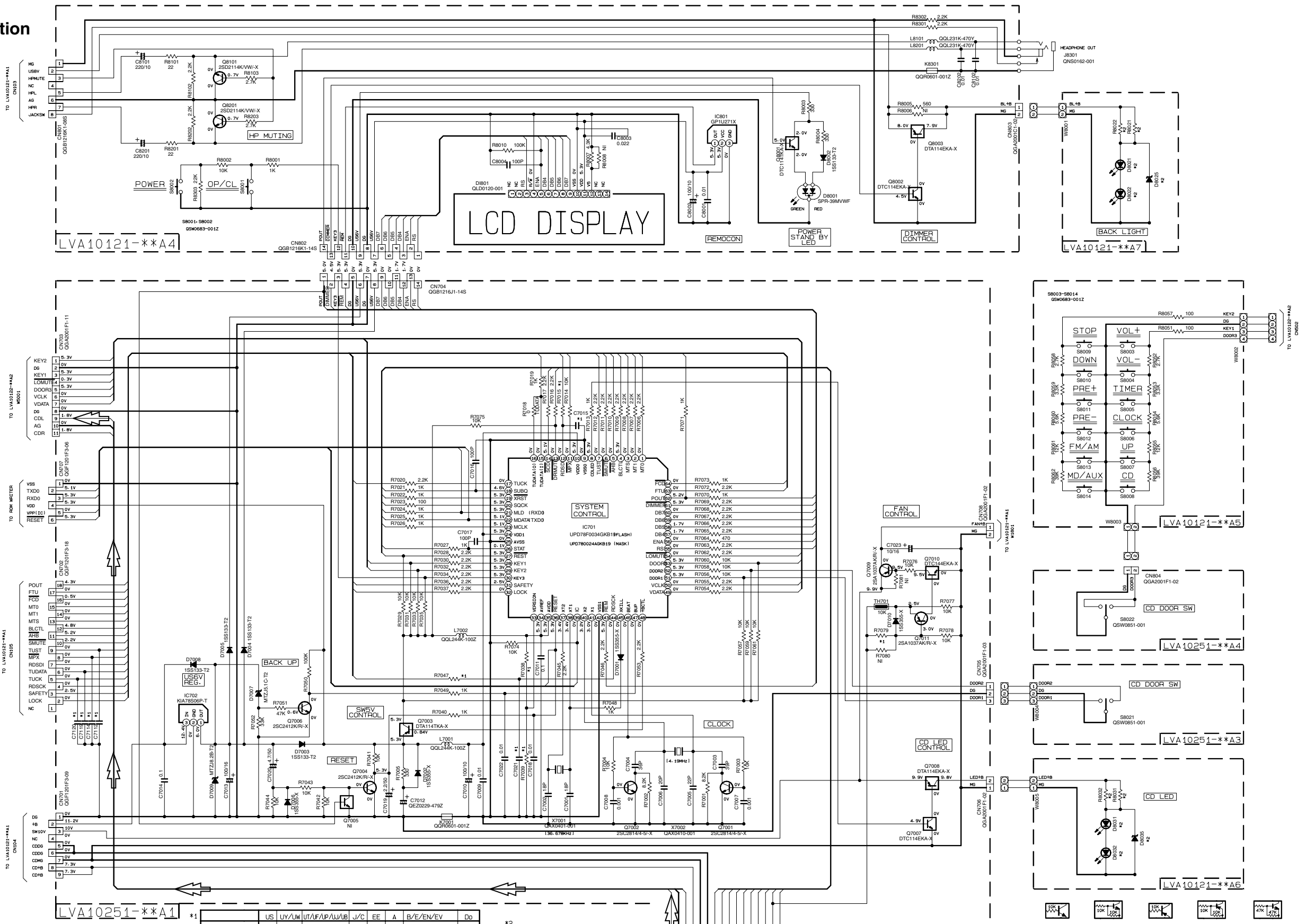
CD servo control section



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 μF (P=PF).
ALL INDUCTANCE VALUES ARE IN HENRY (H).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

LCD & Key control section



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% MG RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN PICO(F)pF. ALL INDUCTANCE VALUES ARE IN MILLI(m)H. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

	US	UY/UW	UT/UF	UP/UL	UB	J/C	EE	A	B/E/EN/EV	Dg
R703B	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-SD5(R)	FS-SD9(R)
D8021, D8022	SELU1E500M	TLYH156P
D8025	MTZJ10C-T2	-
R8021, R8022	100	390
D8031, D8032	SELU1E568M	TLYH156P
D8035	MA3100/M/-X	-
R8031, R8032	430	560



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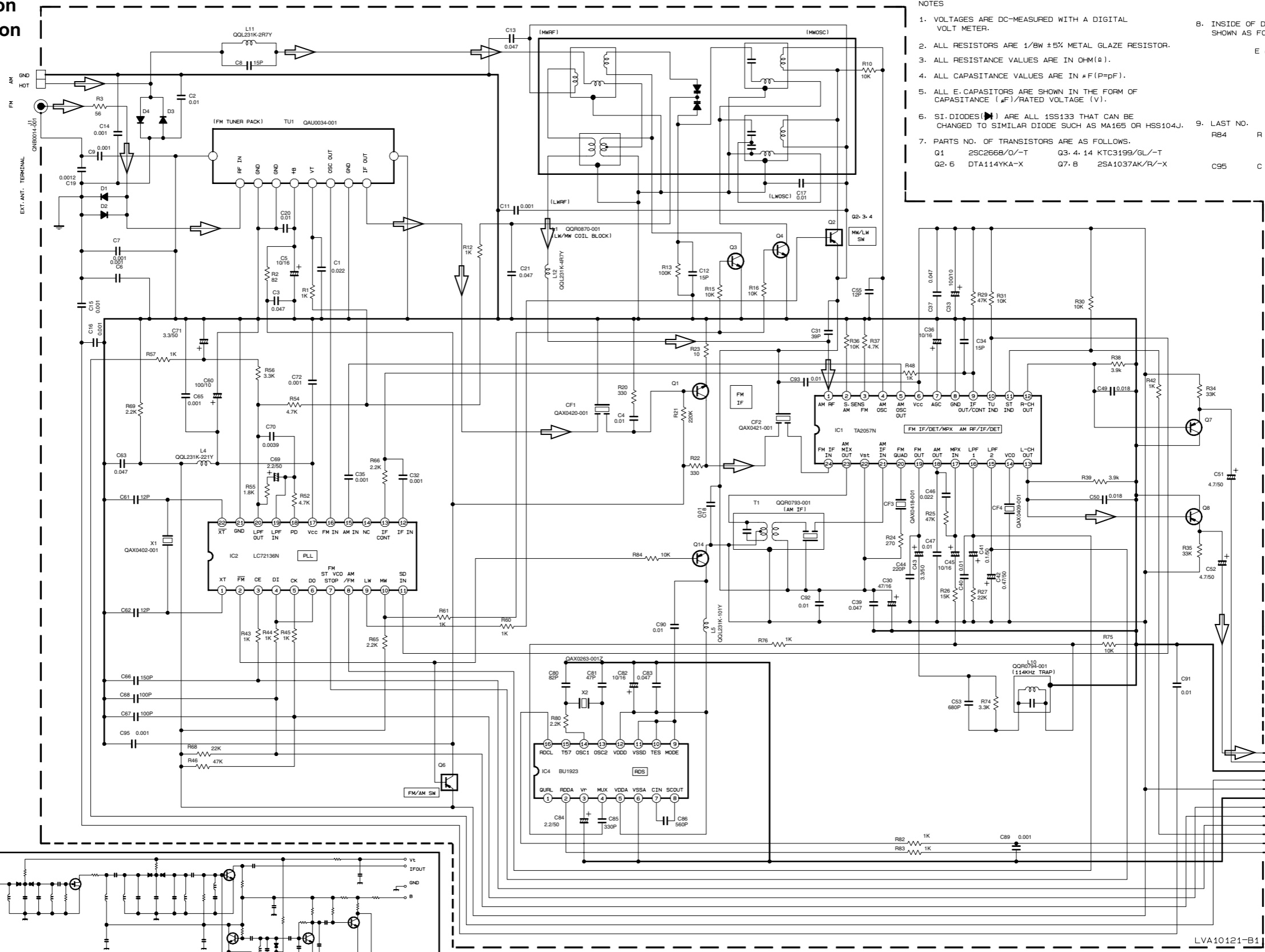
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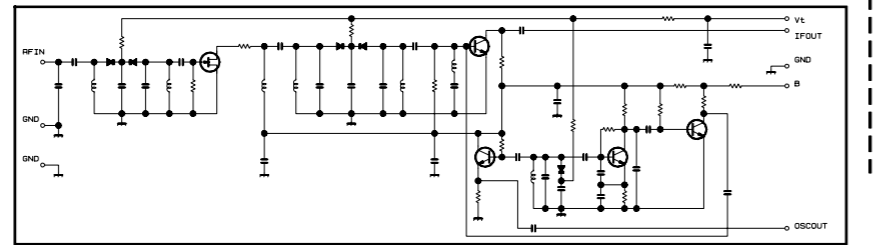
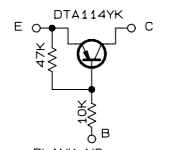
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Tuner section for EV version



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 Ω(M).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E. CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI. DIODES (▶) ARE ALL 1SS133 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 C
47K 0.1V 40K
O B
9. LAST NO. BLANK NO.
R 4-9: 11, 14, 17-19, 29, 32, 33
40, 41, 47, 49-51, 53, 58-59
62-64, 67, 70-73, 77-79, 81
C95 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
IC1 FM 60dB 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
IC2 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 0 8.7	1.6 0 1.1	1.6 0 1.1	5.1 0.1 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

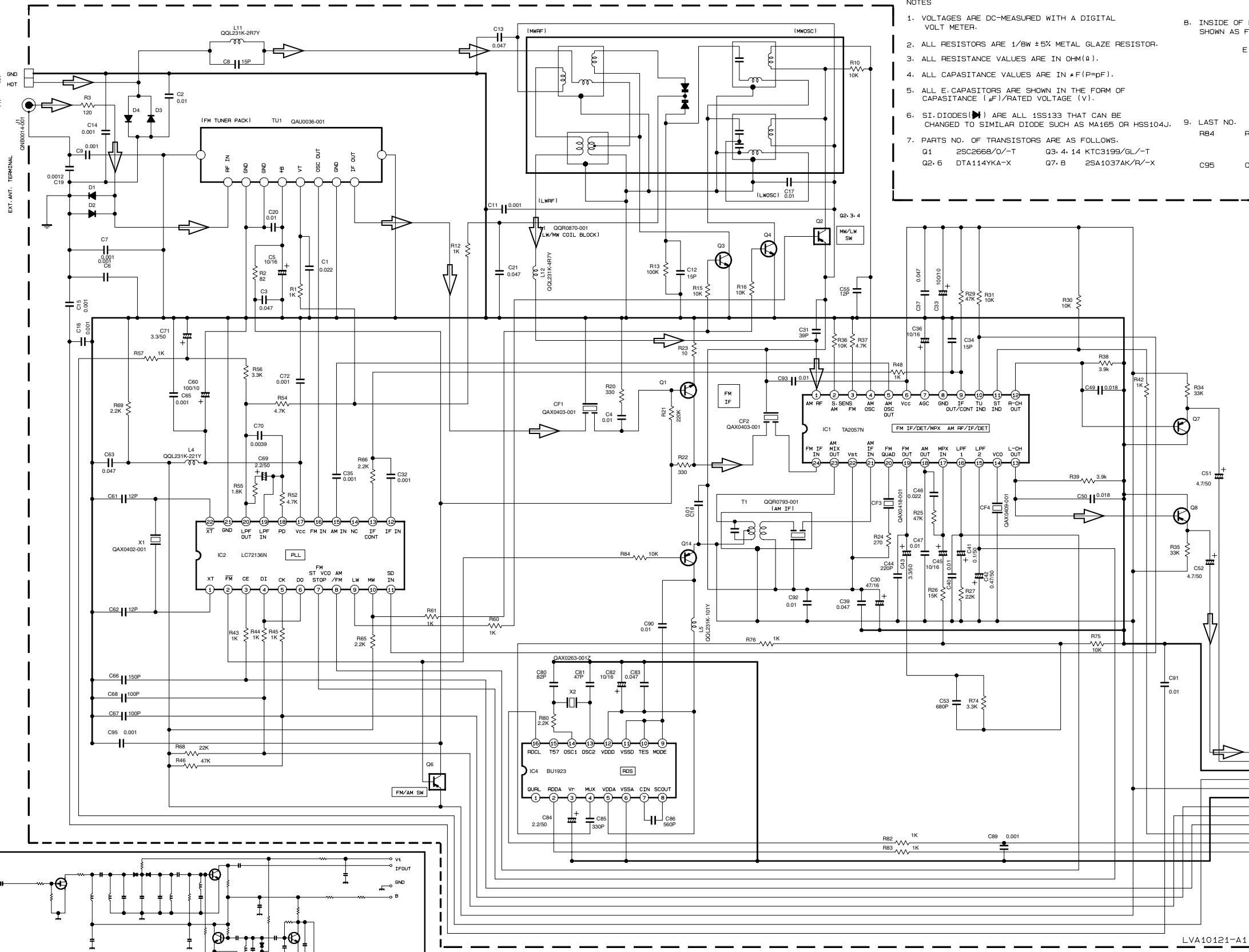
➔ TUNER SIGNAL

LVA10121-B1

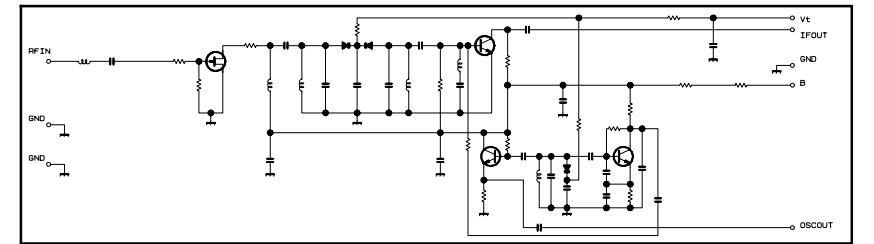
TO FUNCTION

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**Tuner section
for EE version**



- 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 ΩM(Ω).
 4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
 5. ALL E. CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
 6. SI-DIODES (D1) 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: B 2SA1037AK/R/-X
 8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.
DTA114YK
E 47K
C
10K
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
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
IC1 FM 60dB 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
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
IC2 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 1.6 0 1.1 5.1 5.1 4.5				
AM 522KHz NO SIGNAL	0 0 0 8.8 0 8.7 1.6 0 1.1 1.6 0 1.1 1.6 0 1.1 5.1 0.1 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		



LVA10121-A1

TO FUNCTION

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Sub woofer amp section

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

2. 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=pF).
 ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
 ALL INDUCTANCE VALUES ARE IN μH(m=mH).

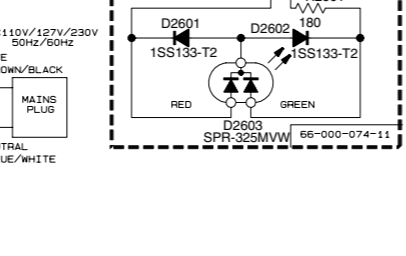
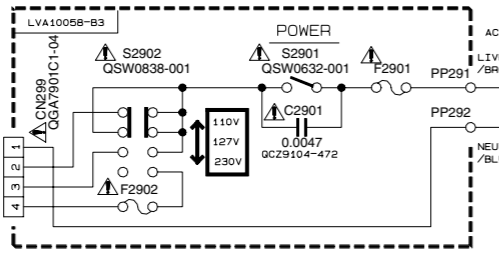
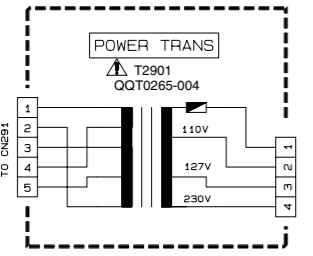
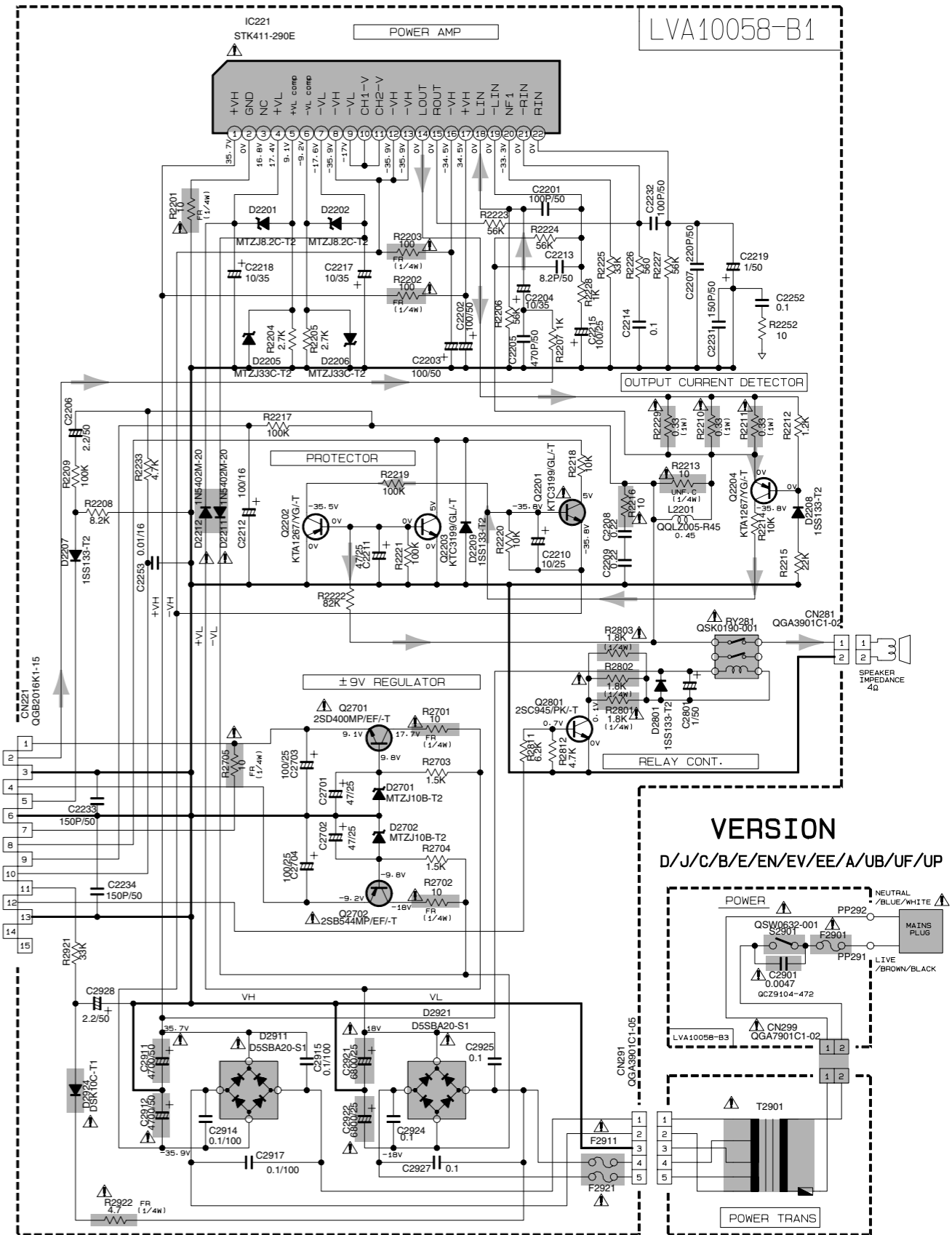
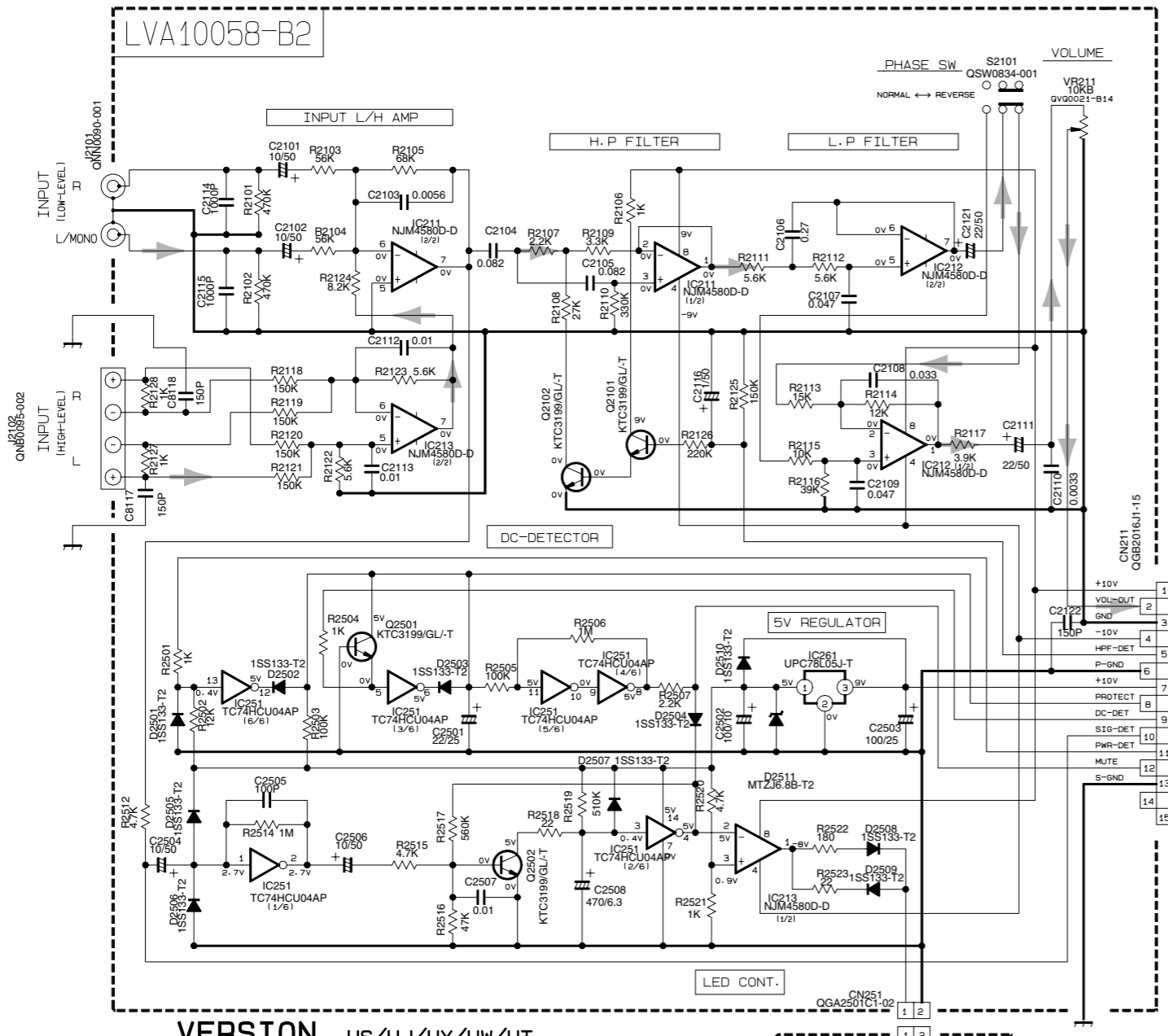
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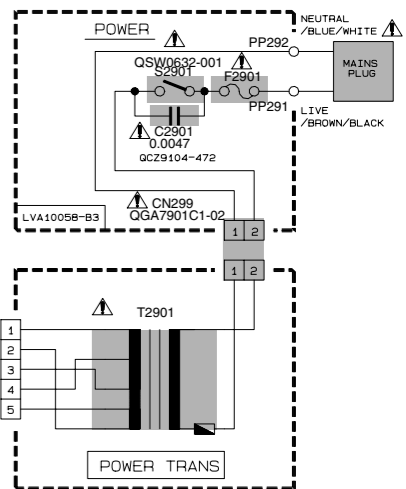
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	D	J/C	B/E/EN/EE/UB	US/UJ/UY/UT/UV	UF/UP	A
T2901	QQT0265-001	QQT0265-002	QQT0265-003	QQT0265-004	QQT0265-005	QQT0265-006
F2901	QMF51U1-2R5-J1	QMF51N2-2R0-J1	QMF51E2-1R0-J1	QMF51E2-1R6-J1	QMF51E2-1R0-J1	QMF51E2-1R0-J1
F2902				QMF51E2-R80-J1		
F2911	QMF51N2-2R0-J1	QMF51N2-1R6-J1	QMF51E2-1R6-J1	QMF51E2-1R25-J1	QMF51E2-1R6-J1	QMF51E2-1R6-J1
F2921	QMF51N2-2R0-J1	QMF51N2-1R6-J1	QMF51E2-1R6-J1	QMF51E2-1R25-J1	QMF51E2-1R6-J1	QMF51E2-1R6-J1

VERSION D/J/C/B/E/EN/EE/A/UB/UF/UP



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

SUBWOOFER SIGNAL

Printed circuit boards

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■ Power IC board

■ Main board

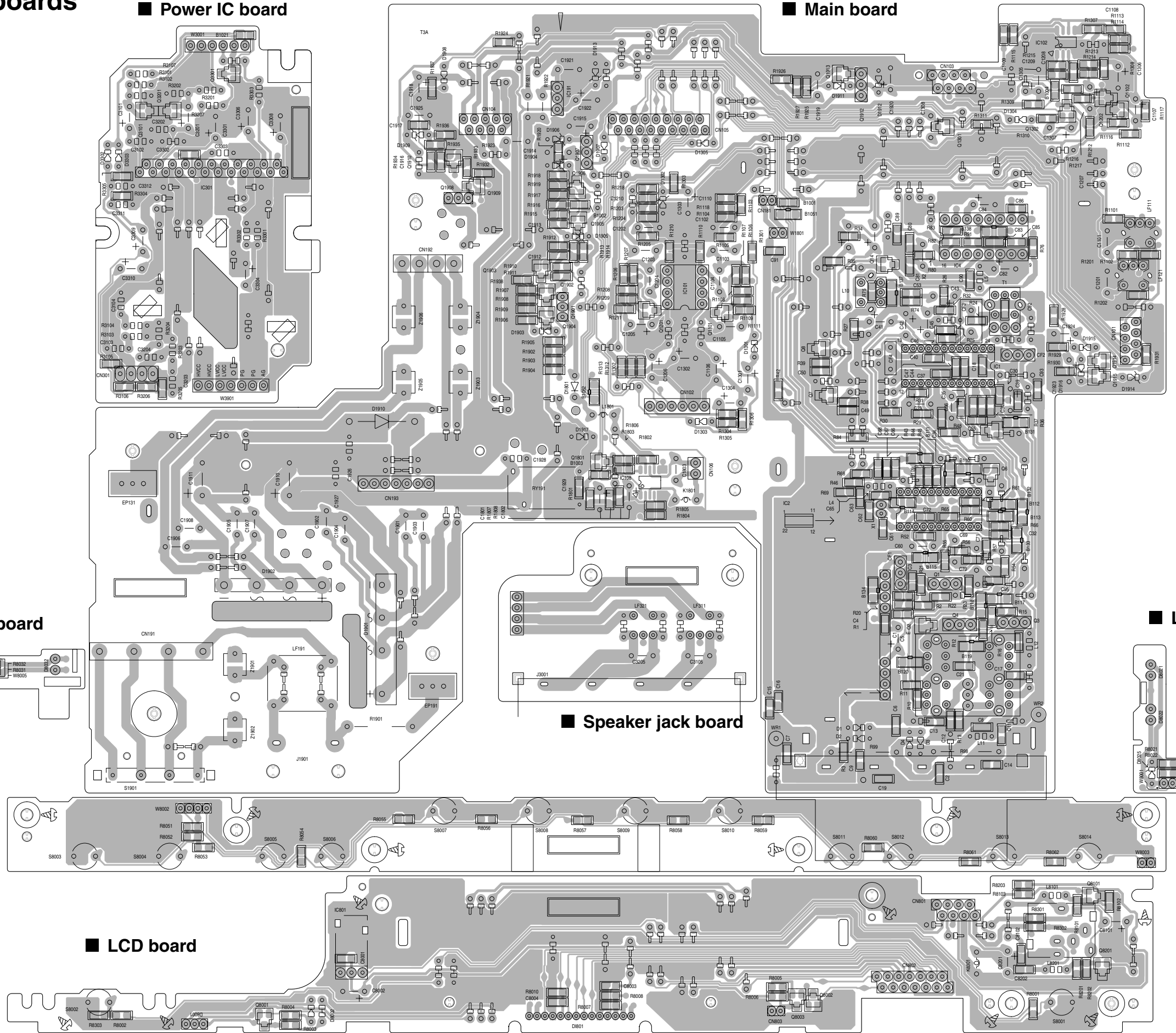
■ LCD lamp board

■ Lamp board

■ Speaker jack board

■ Switch board

■ LCD board



A

B

C

2-8

D

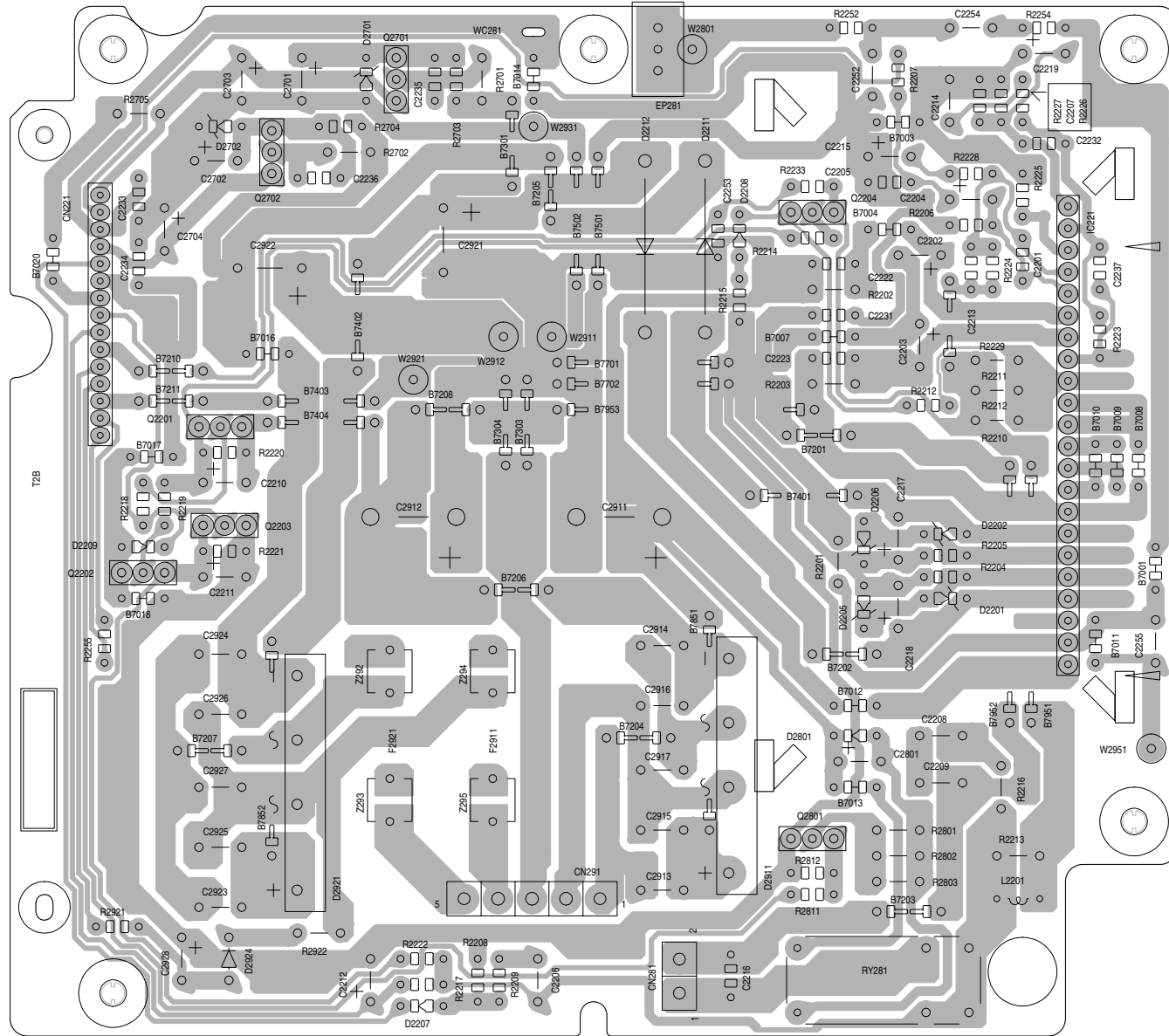
E

F

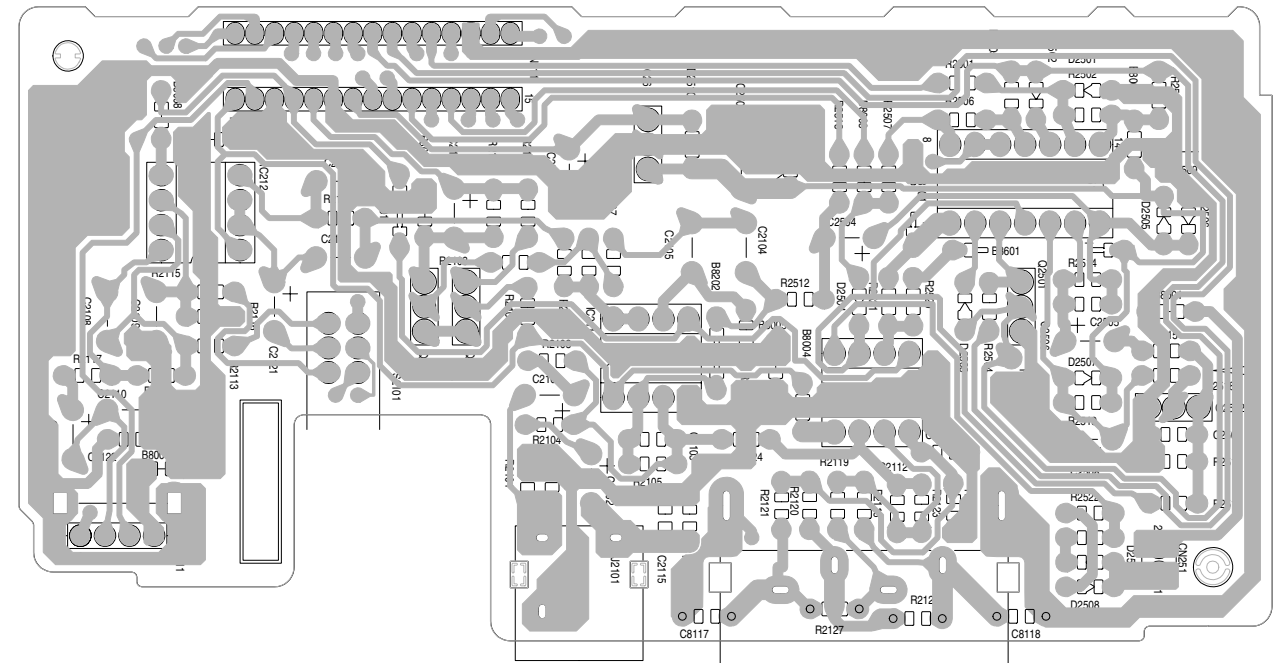
G

H

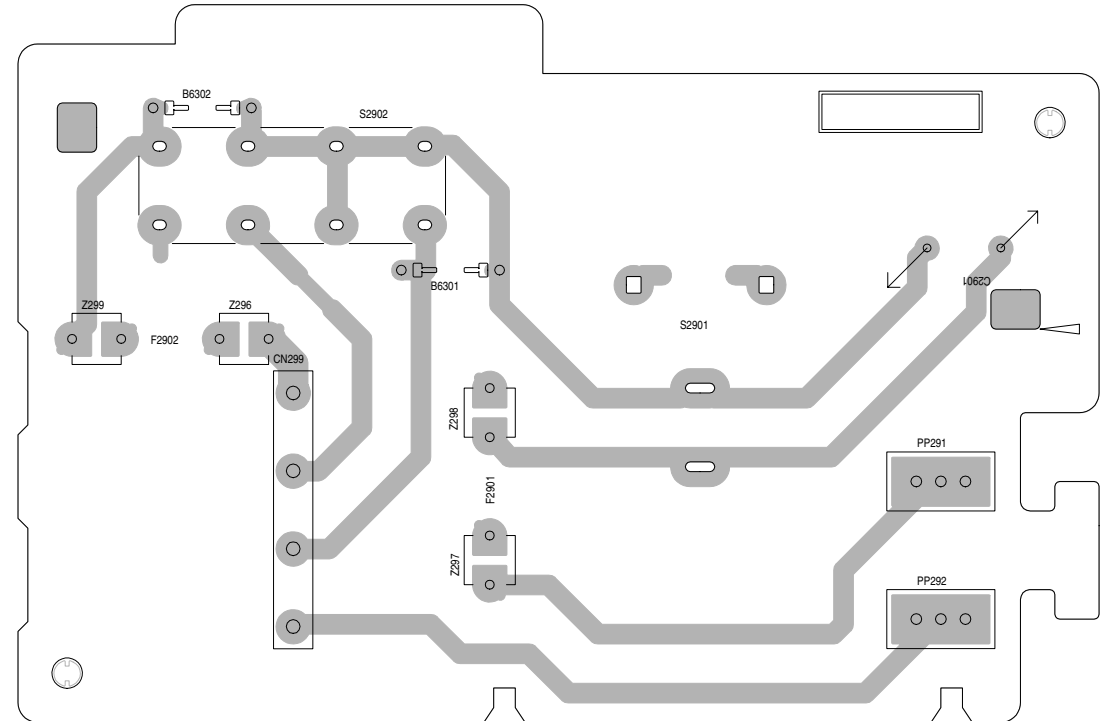
■ Subwoofer power amp board



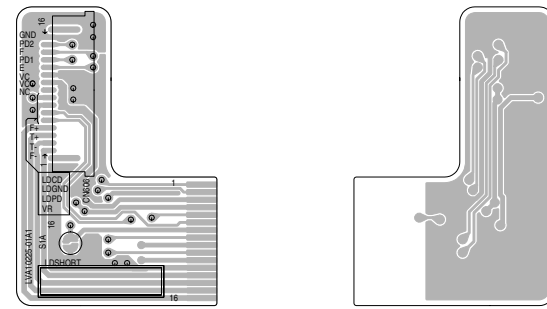
■ Subwoofer input board



■ Subwoofer power supply board

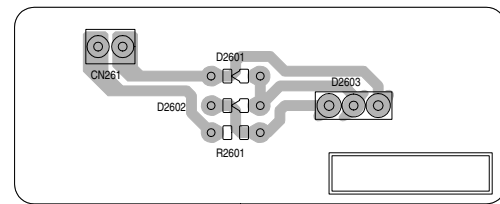


■ Sub board (Forward side)



■ Sub board (Reverse side)

■ Subwoofer LED board



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A

B

C

2-10

D

E

F

G

H