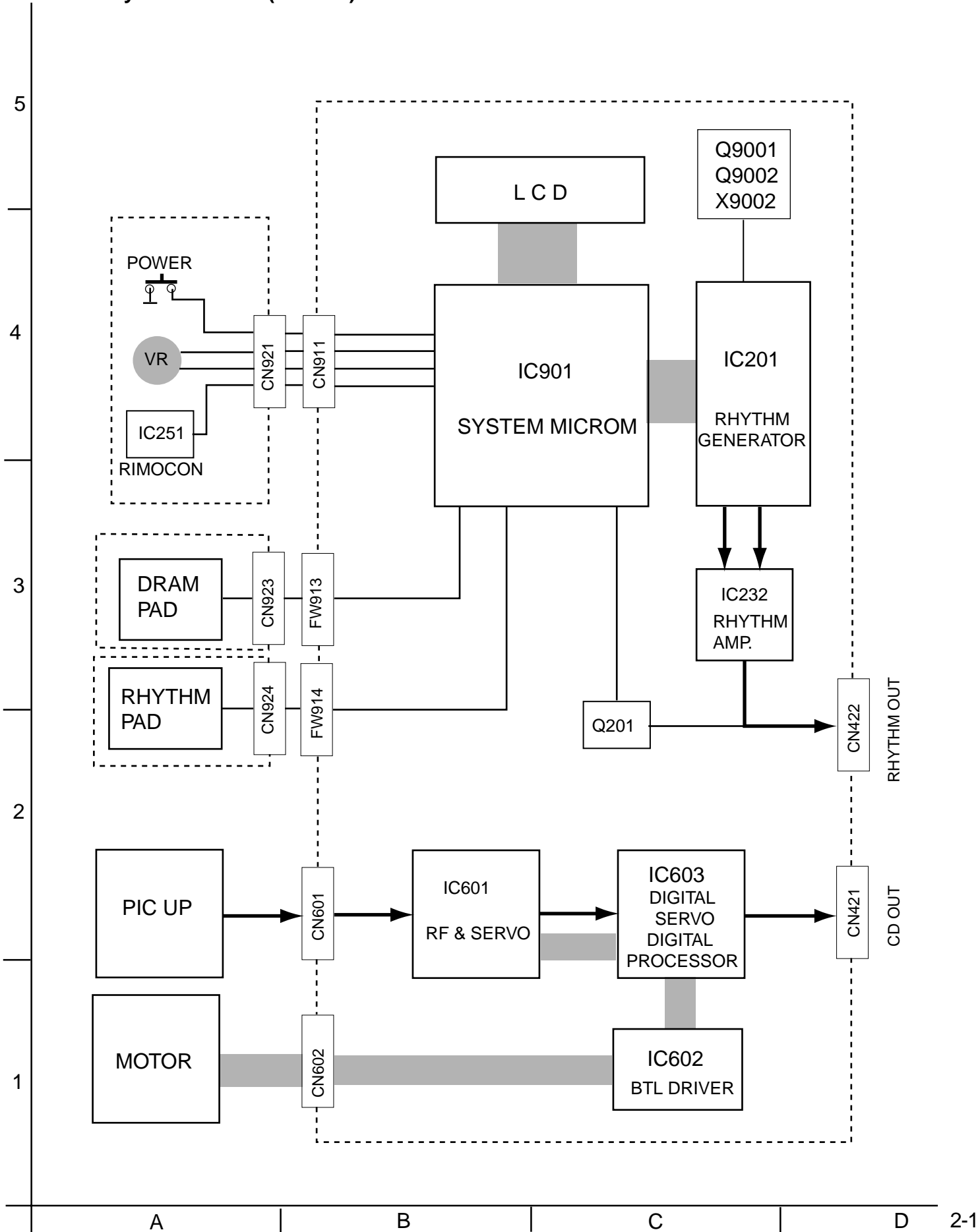
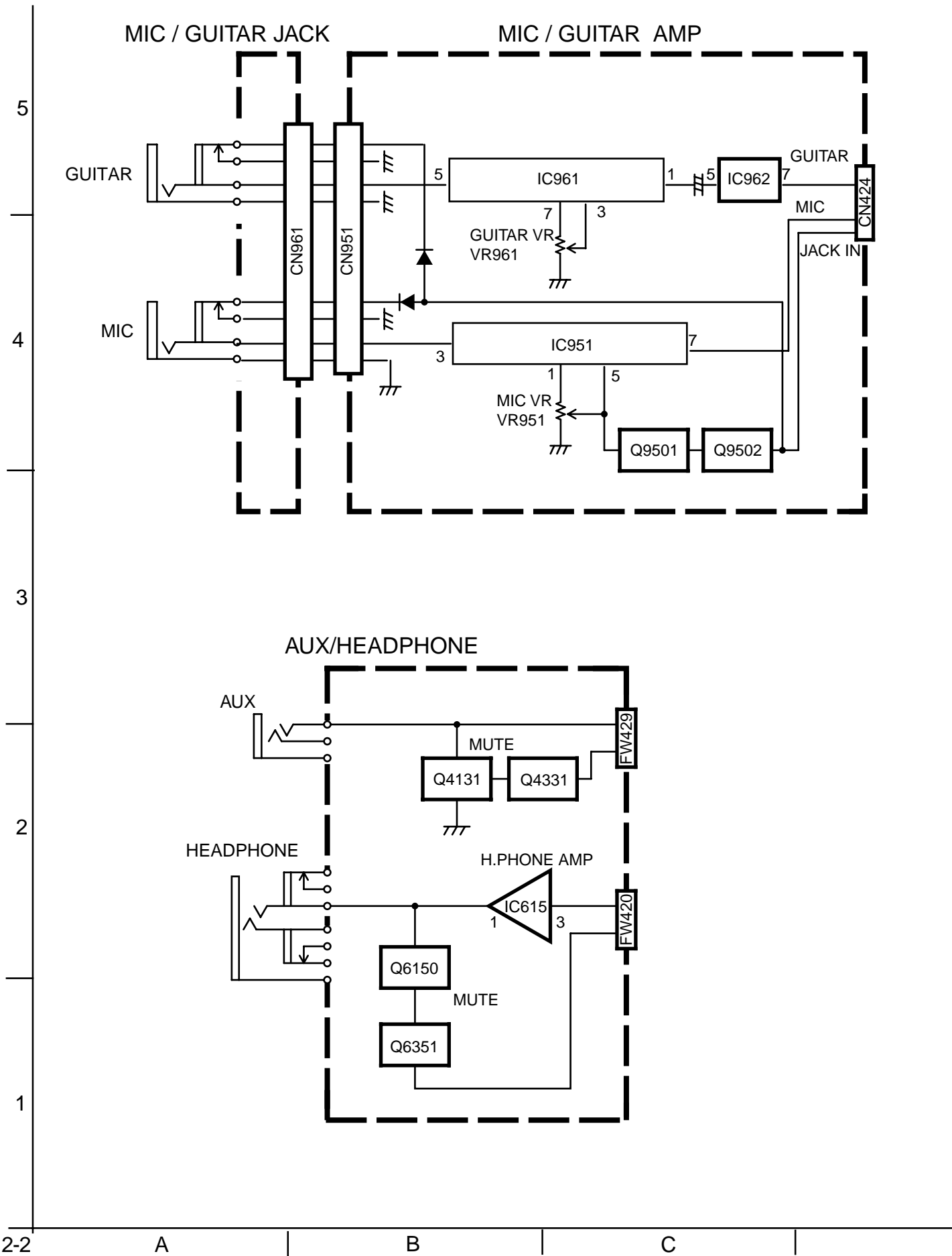


Block diagrams

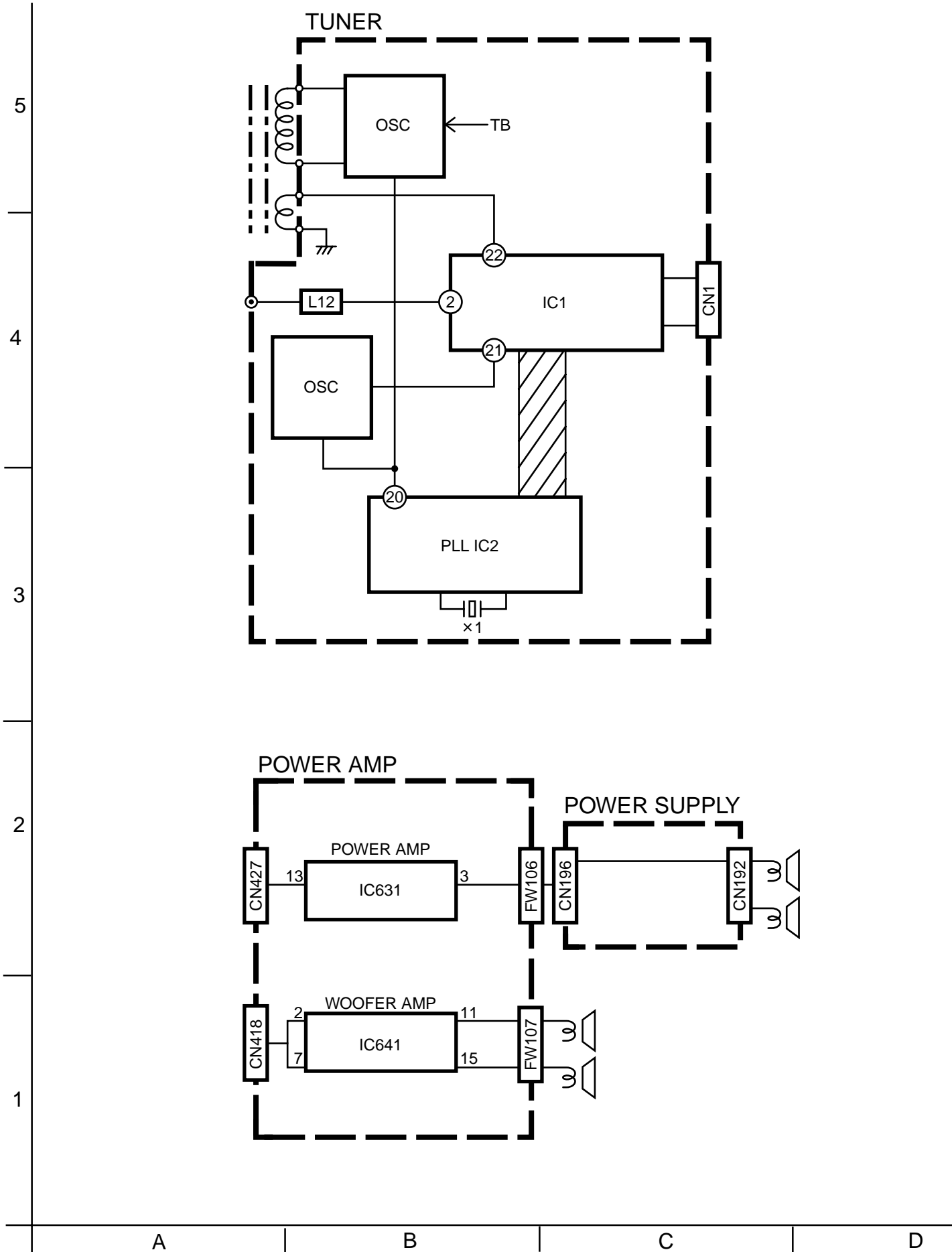
■ System control (Microm) section



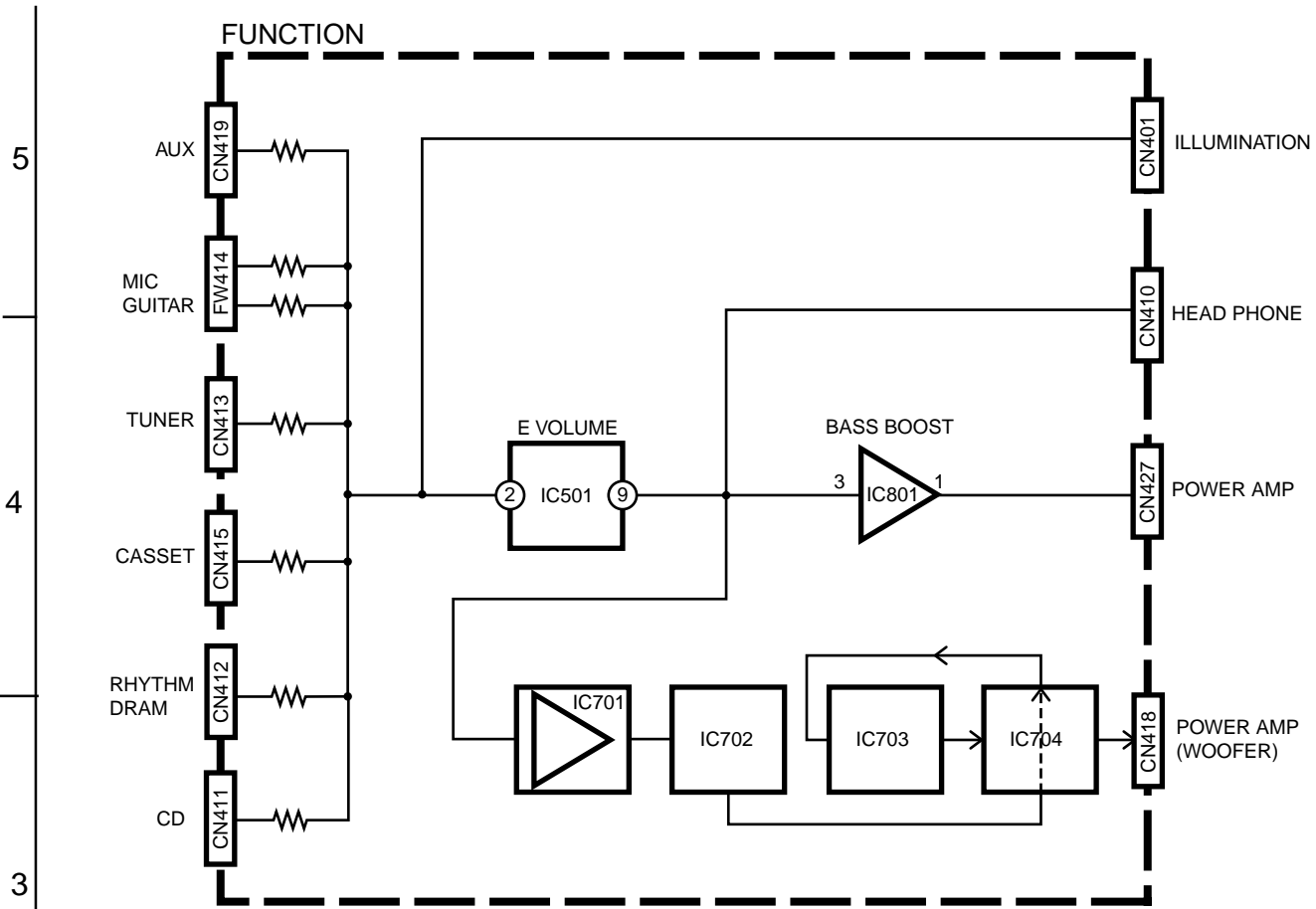
■ Mic/Guitar and AUX/Headphone section



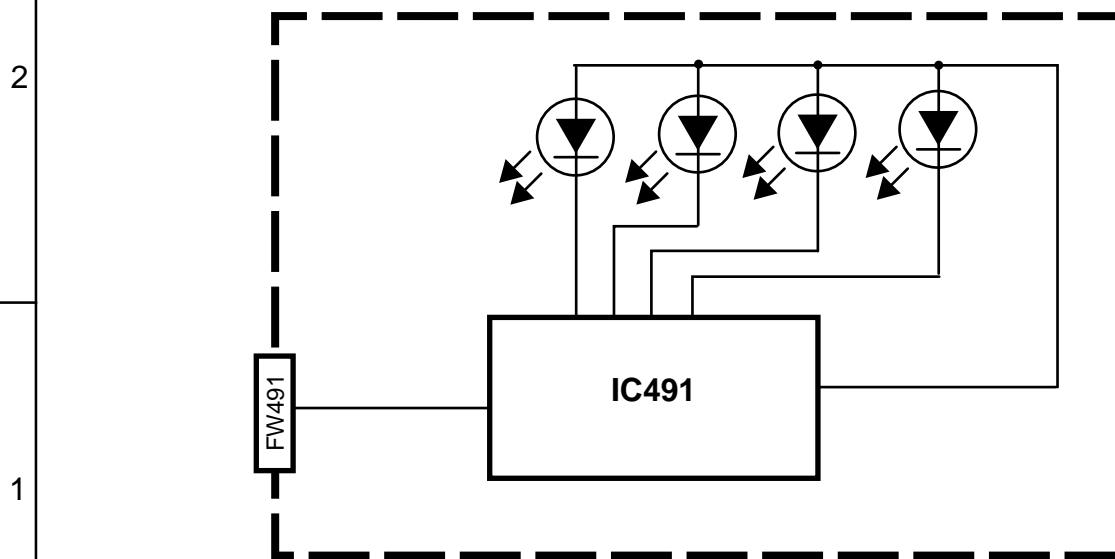
■ Tuner / Power section



■ Function section



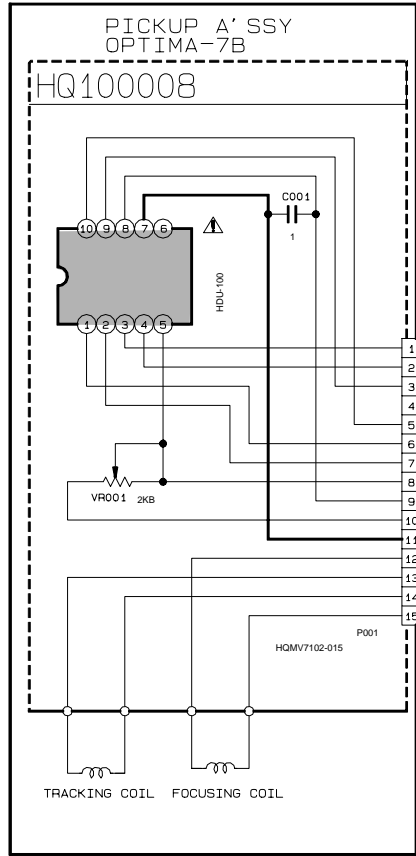
■ LED section



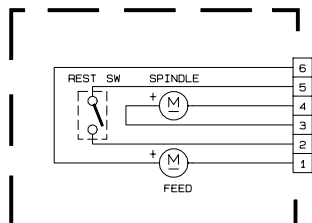
Standard schematic diagrams

■ CD servo control section

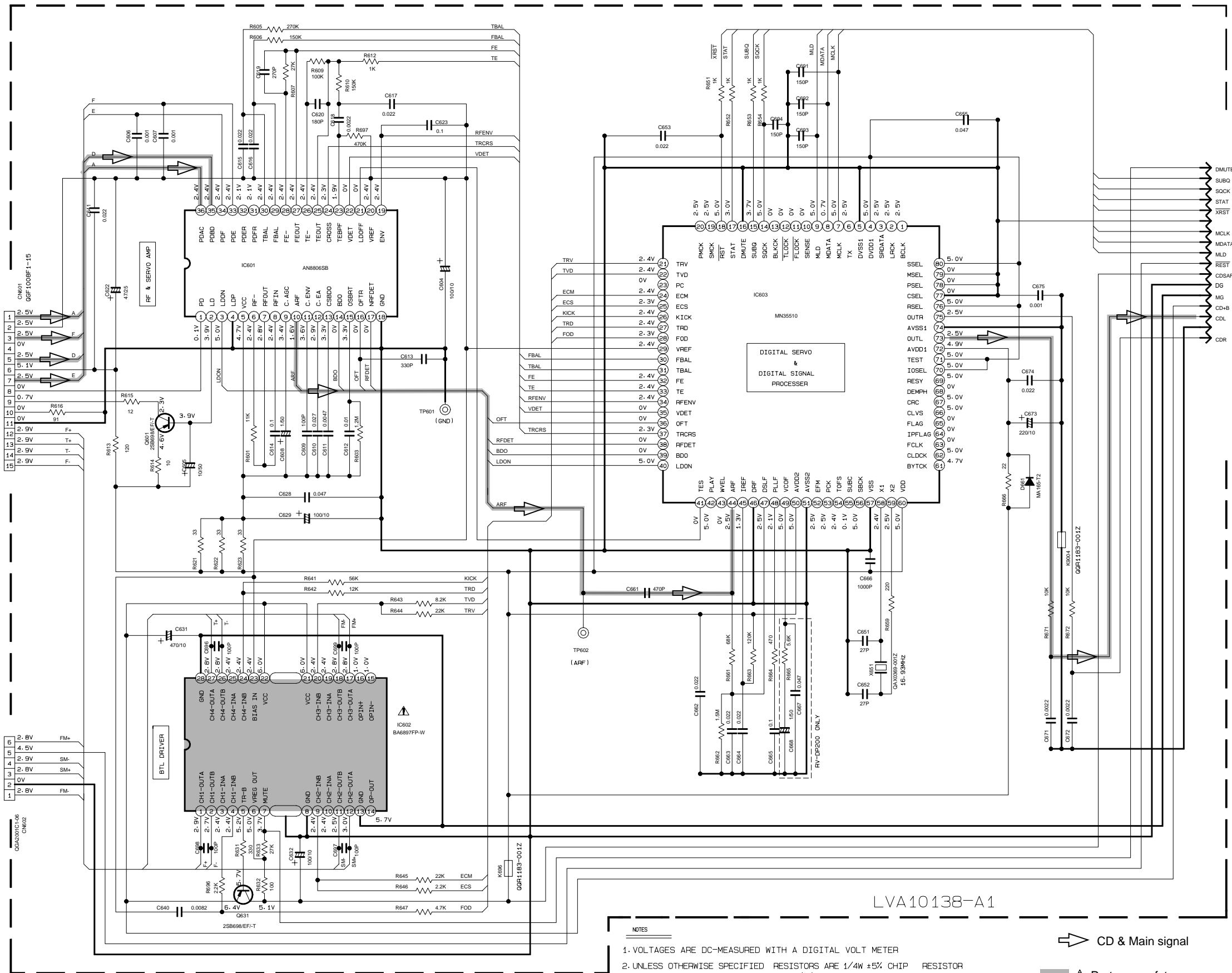
5
4
3
2
1



EXL-M7MBYPM



TK473, CMKS-B1X, CMKE-77X, NMPF2



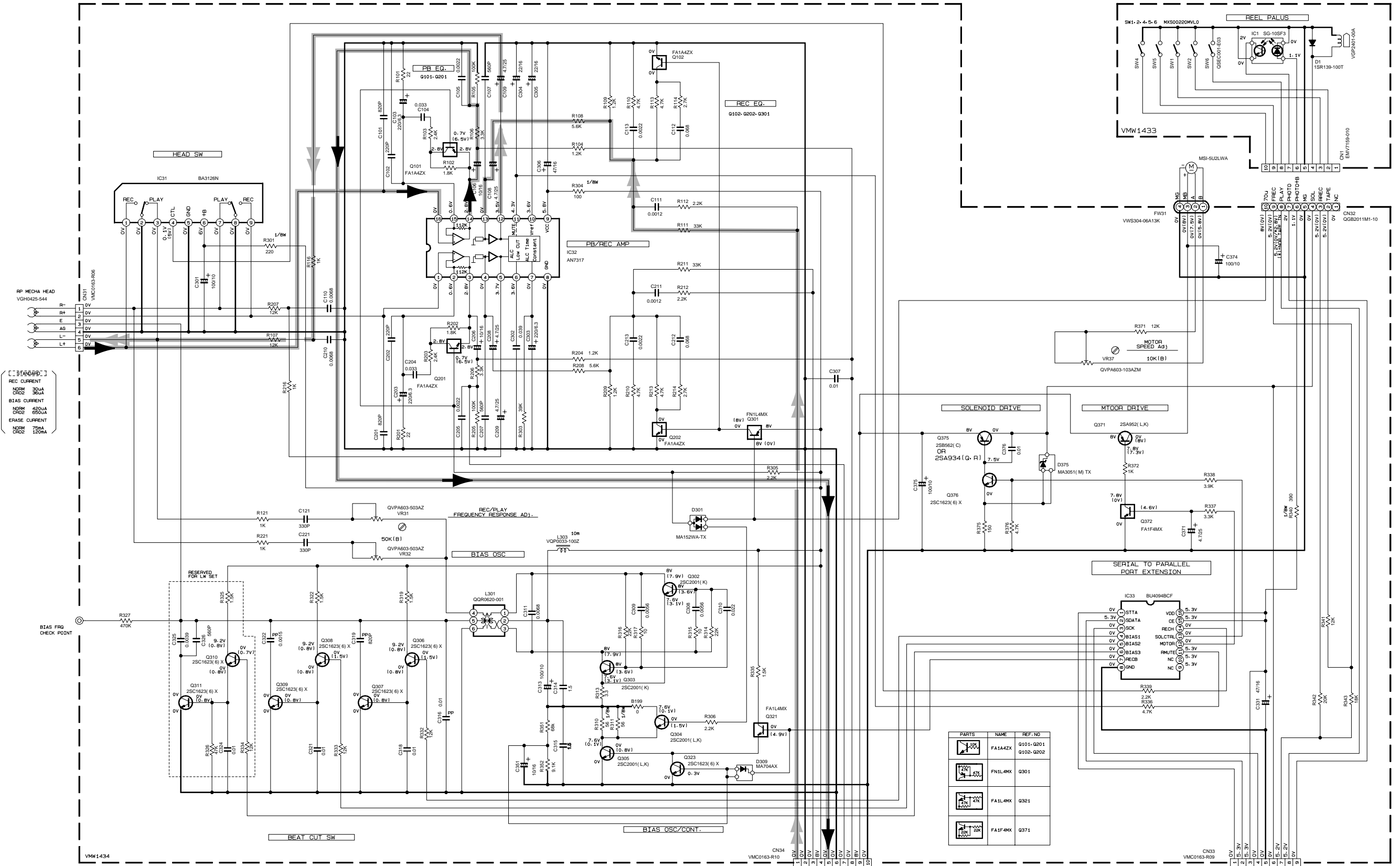
➔ CD & Main signal

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

To G-2 on page 2-8

■ Cassette amplifier section

5
4
3
2
1



STANDARD
REC CURRENT
NORM 300µA
CRSE 650µA
BIAS CURRENT
NORM 4500µA
CRSE 6500µA
ERASE CURRENT
NORM 750µA
CRSE 1200µA

PARTS	NAME	REF. NO
	FA1A4ZX	G101, G201 G102, G202
	FN1L4MX	Q301
	FA1L4MX	Q301
	FA1F4MX	Q371

NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION: MECHA STOP MODE
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(S). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN #F(P#P#F). ALL INDUCTANCE VALUES ARE IN #H(M#MH). ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).

➔ Tape P.B. signal
➔ Recording signal

To E-1 on page 2-8

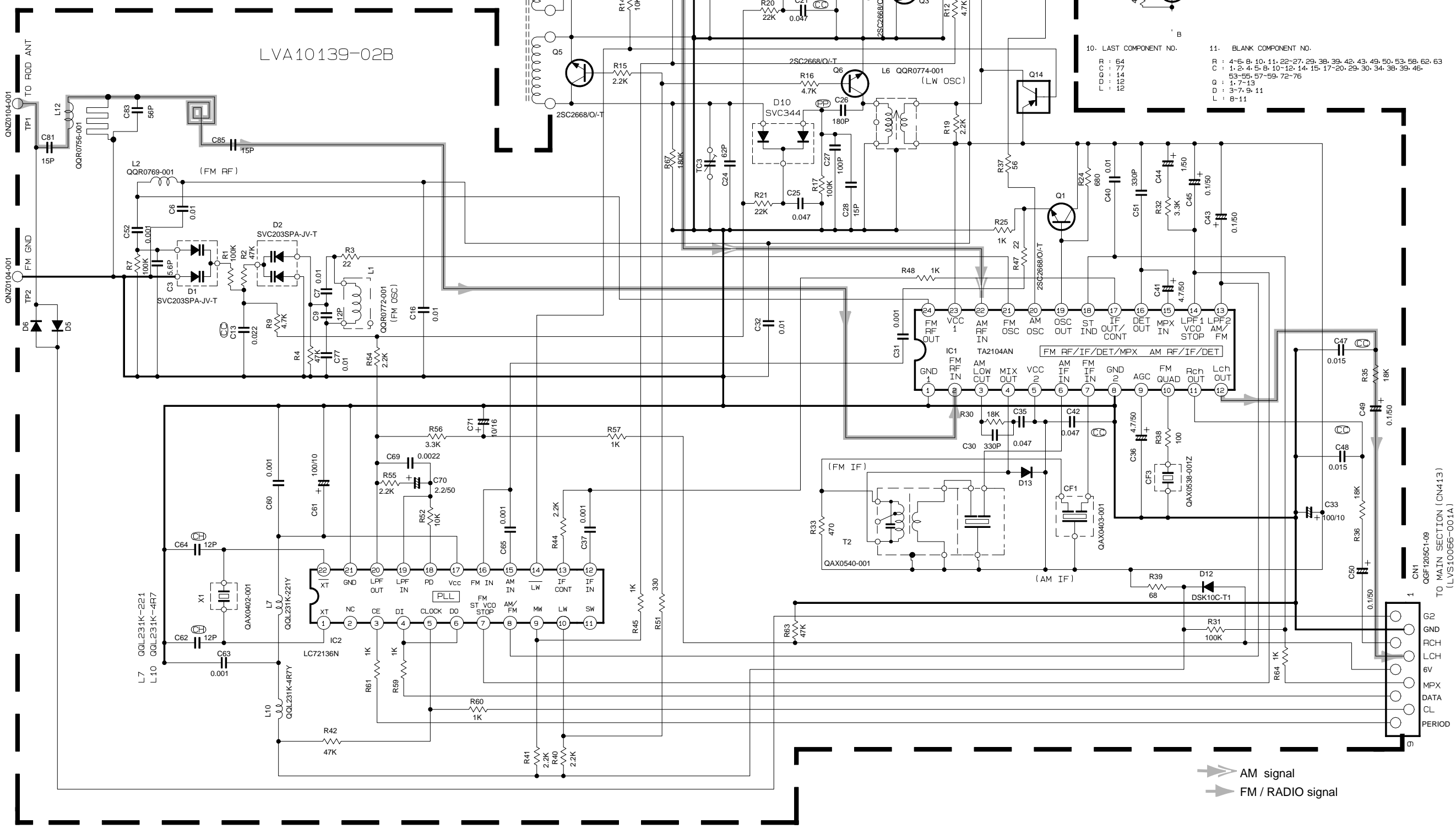
To A-2 on page 2-9

A B C 2-6 D E F G H

Tuner section

5
4
3
2
1

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 88MHz	0	0.8	0	3.6	4	3.5	4	0	0.6	3.2	1.2	1.2	3.4	3.3	0.7	1.4	1.2	0	3.9	4	4.1	4	4
	FM 88MHz 600B STEREO	0	0.8	0.2	3.6	4.1	3.9	4.1	0	0	3.3	1.2	1.2	3.3	3.4	0.7	1.1	1.4	0.7	4	4.1	4.1	4.1	4.1
	AM 531KHz NO SIGNAL	0	0	1	4.2	4.3	3.6	4.3	0	0.1	3.7	1.2	1.2	0	0	0.7	1.1	0.9	0.7	4.1	4.2	4.3	4.3	4.3
PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
IC2	FM NO SIGNAL	2.5	0	0	5.1	5.1	5.1	3.5	3.2	3.9	2.5	4.1	0	1.4	1.7	0	2.4	0	0.9	0.9	1.5	0	2	
TR NO	Q1	Q2	Q3	Q4	Q5	Q6	Q14																	
PIN NO	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
	AM 1440KHz NO SIGNAL	3.3	4.2	4.1	0	0	0.1	0	0	0.1	4.1	4.1	3.6	0	0	0	0	0	0.7	4.1	4.1	0	0	
	AM 144KHz NO SIGNAL	3.4	4.3	4.2	0	0	0.8	0	0	0.7	4.3	4.3	4.3	0	0	0.1	0	0	0.1	4.3	4.3	4.3	0	



- NOTES**
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
 - ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
 - ALL RESISTANCE VALUES ARE IN OHM(S).
 - ALL CAPACITANCE VALUES ARE IN #F(PpF).
 - ALL E.CAPS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).
 - ALL INDUCTANCE VALUES ARE IN #H(m=MH)
 - S1. DIODES (▶) ARE ALL MA165 THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254 OR HSS104TU OR 1SS133.
 - PARTS NO. OF TRANSISTORS ARE AS FOLLOWS:
Q1, 2, 3, 5, 6 2SC2668/O/ OR 2SC1923/O/
Q4 2SA1175/HFE/ 2SA1175/HFE/
Q14 DTA114YS or BN1A4P
 - INSIDE OF DIGITAL TRANSISTOR IS SHOWN AS FOLLOWS.
DTA114YA-T
BN1A4P
E O C
47K
 - LAST COMPONENT NO.
 - BLANK COMPONENT NO.
R: 4-6, 8, 10, 11, 22-27, 29, 39, 39, 42, 43, 49, 50, 53, 58, 62, 63
C: 1, 2, 4, 5, 8, 10-12, 14, 15, 17-20, 29, 30, 34, 39, 39, 46, 53-55, 57-59, 72-76
D: 1-7, 13
Q: 3-7, 9, 11
L: 8-11

TO MAIN SECTION (CN413)
(LV510066-001A)

To A-3 on page 2-9

Power amplifier section

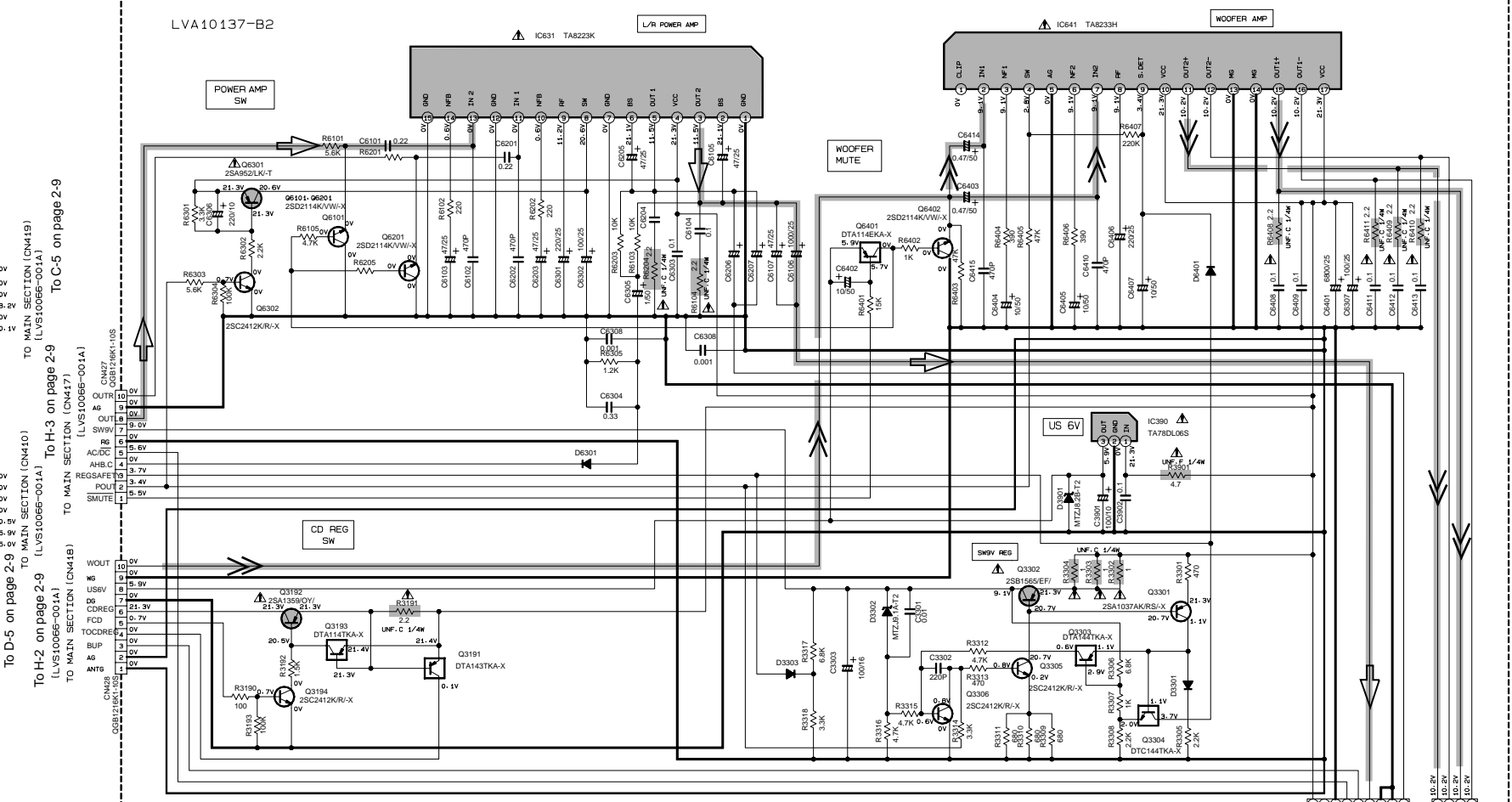
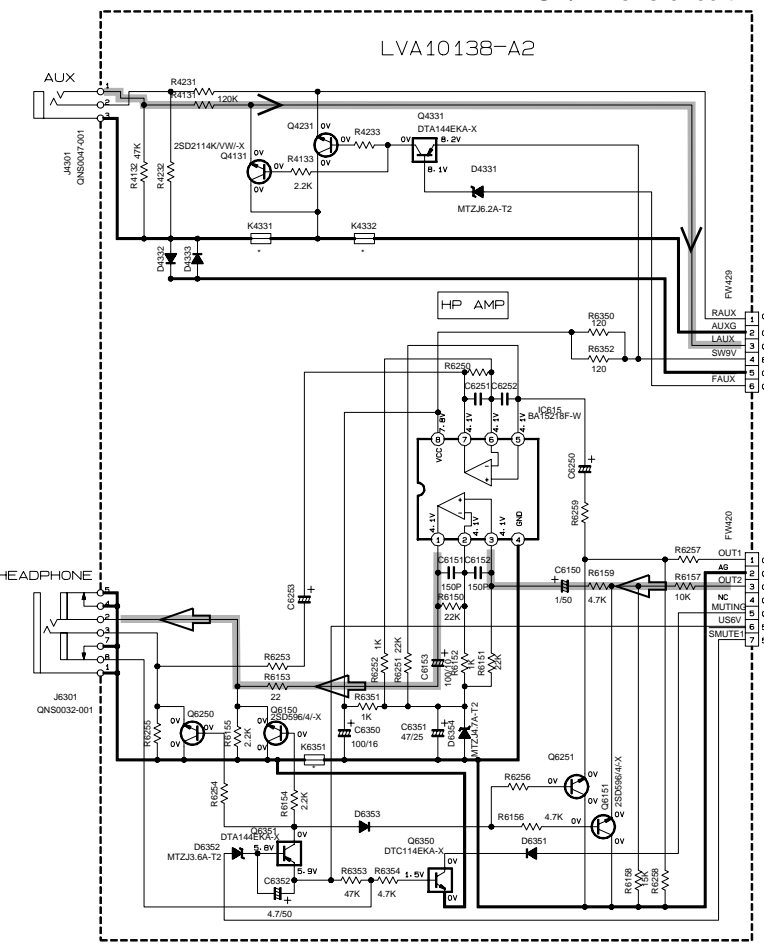
AUX/H.Pone circuit

Power amplifier circuit

5

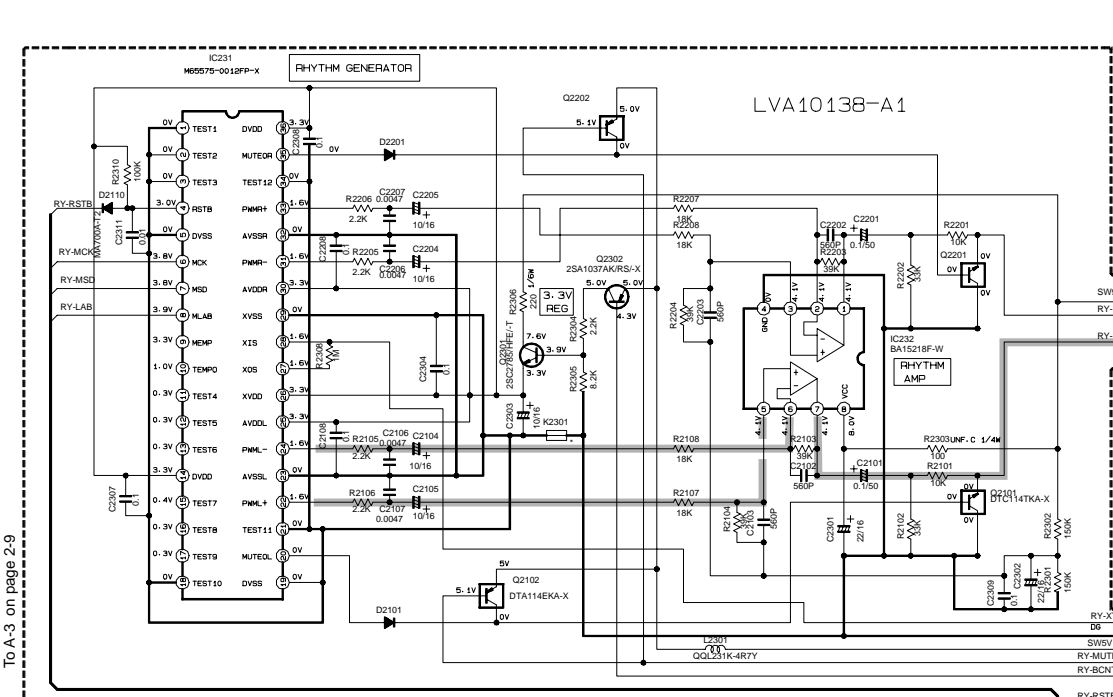
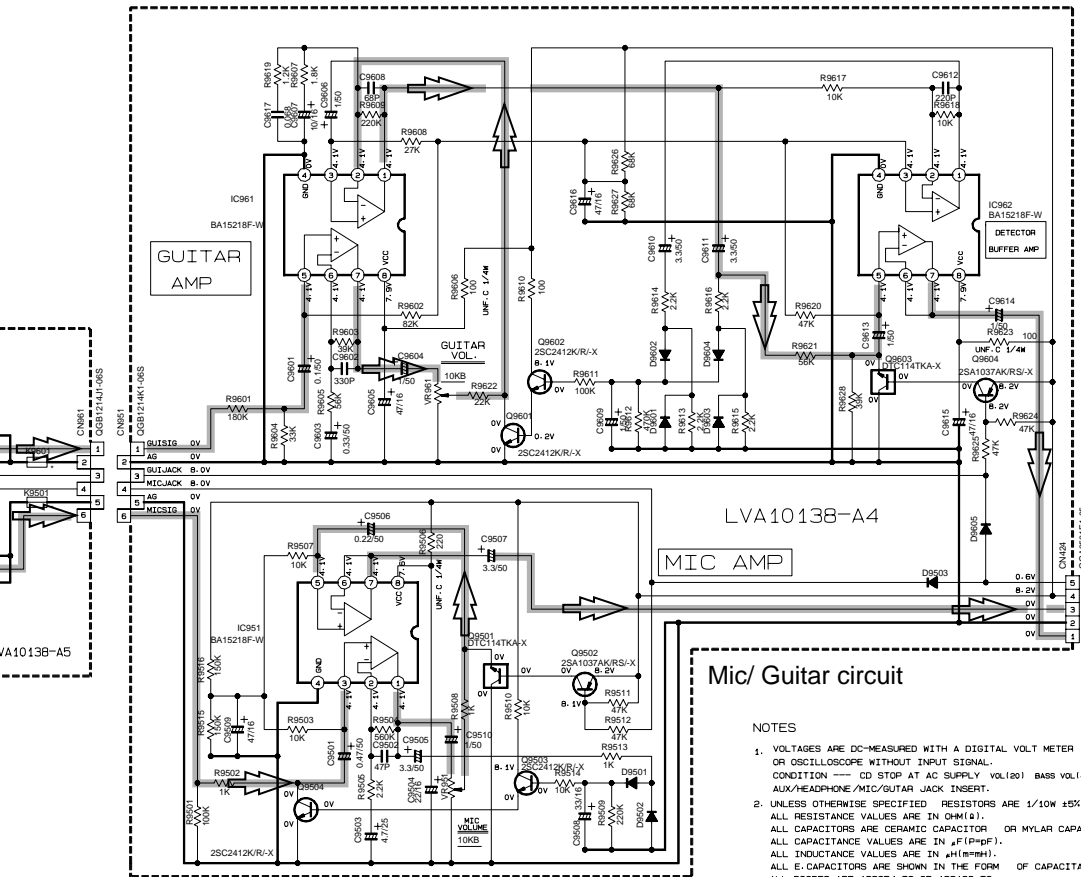
4

3



2

1



NOTES
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
 CONDITION --- CD STOP AT AC SUPPLY VOL(20) BASS VOL(4)
 AUX/HEADPHONE/MIC/GUITAR JACK INSERT.
 2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/10W ±5% MG RESISTOR
 ALL RESISTANCE VALUES ARE IN OHM(Ω).
 ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
 ALL CAPACITANCE VALUES ARE IN μF(μF).
 ALL INDUCTANCE VALUES ARE IN μH(μH).
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
 ALL DIODES ARE 1SS254-T2 OR 1SS133-T2

Rhythm G. circuit

TABLE1 DIGITAL TRANSISTOR

DTA114EKA	DTA144EKA	DTA144TBA	DTA144TBA	DTA144TBA
10K	10K	10K	2.2K	2.2K

TABLE1 (MARK) FERRITE BEADS (Kxxxx)

RV-DP200	QGR183-0012
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- MIC & Guitar signal
- CD & Main signal
- AUX signal
- Woofer signal

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

To D-5 on page 2-11

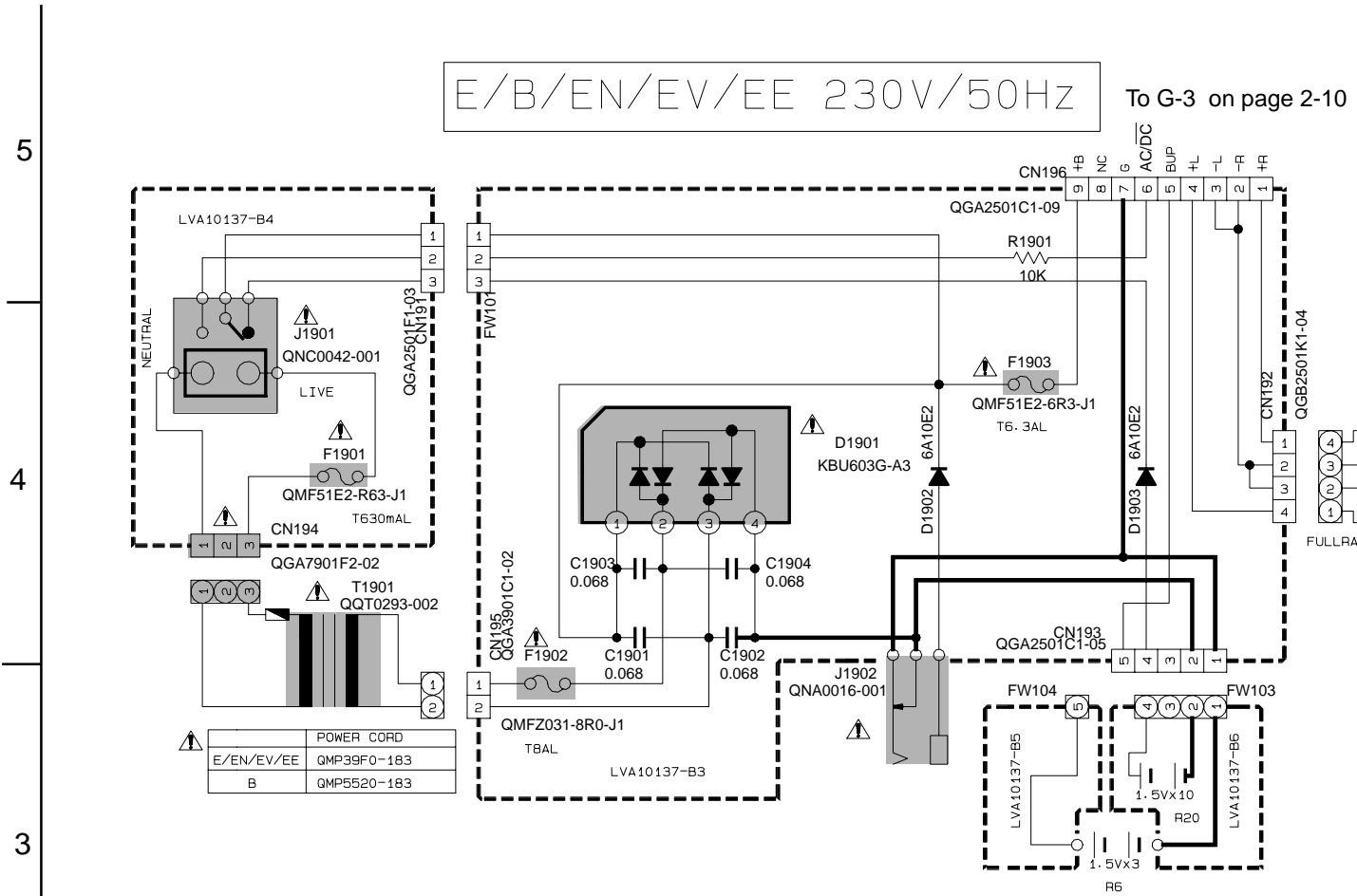
To G-1 on page 2-8

TO U-COM SECTION (LVB1005B-001A)

To G-4 on page 2-8

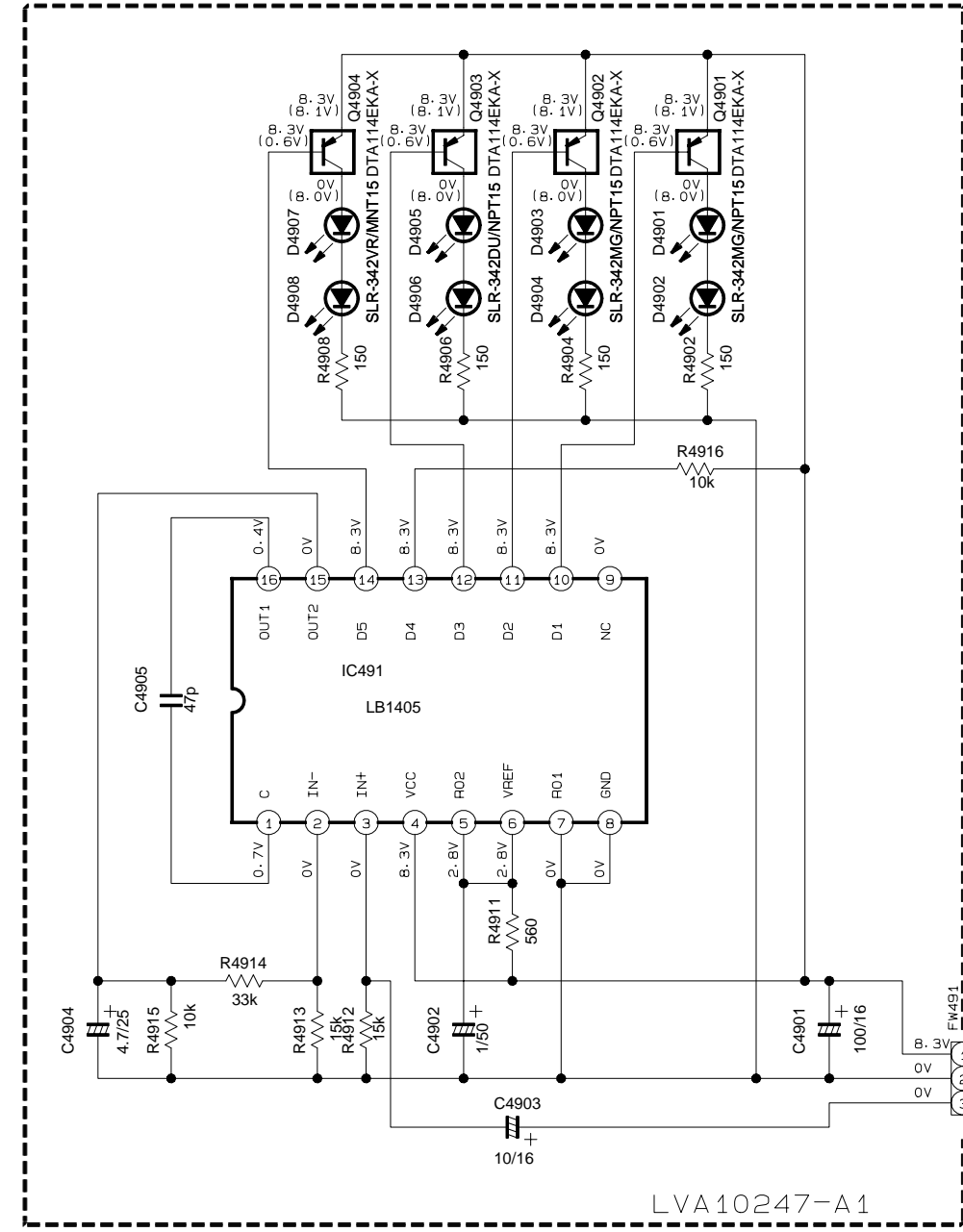
Power supply section

LED 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 1/4W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN μF(P=pF).

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



NOTES

VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP AT AC SUPPLY

UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/10W ±5% MG RESISTORS. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR. ALL CAPACITANCE VALUES ARE IN μF(P=pF). ALL INDUCTANCE VALUES ARE IN μH(m=mH). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

TABLE1 DIGITAL TR LIST

PARTS NAME	DTA114EKA-X
CONSTRUCTION	

TO MAIN SECTION (CN401)
(LVS10066-001A)

To A-2 on page 2-9

5
4
3
2
1

Printed circuit boards

■ Main board

Main board

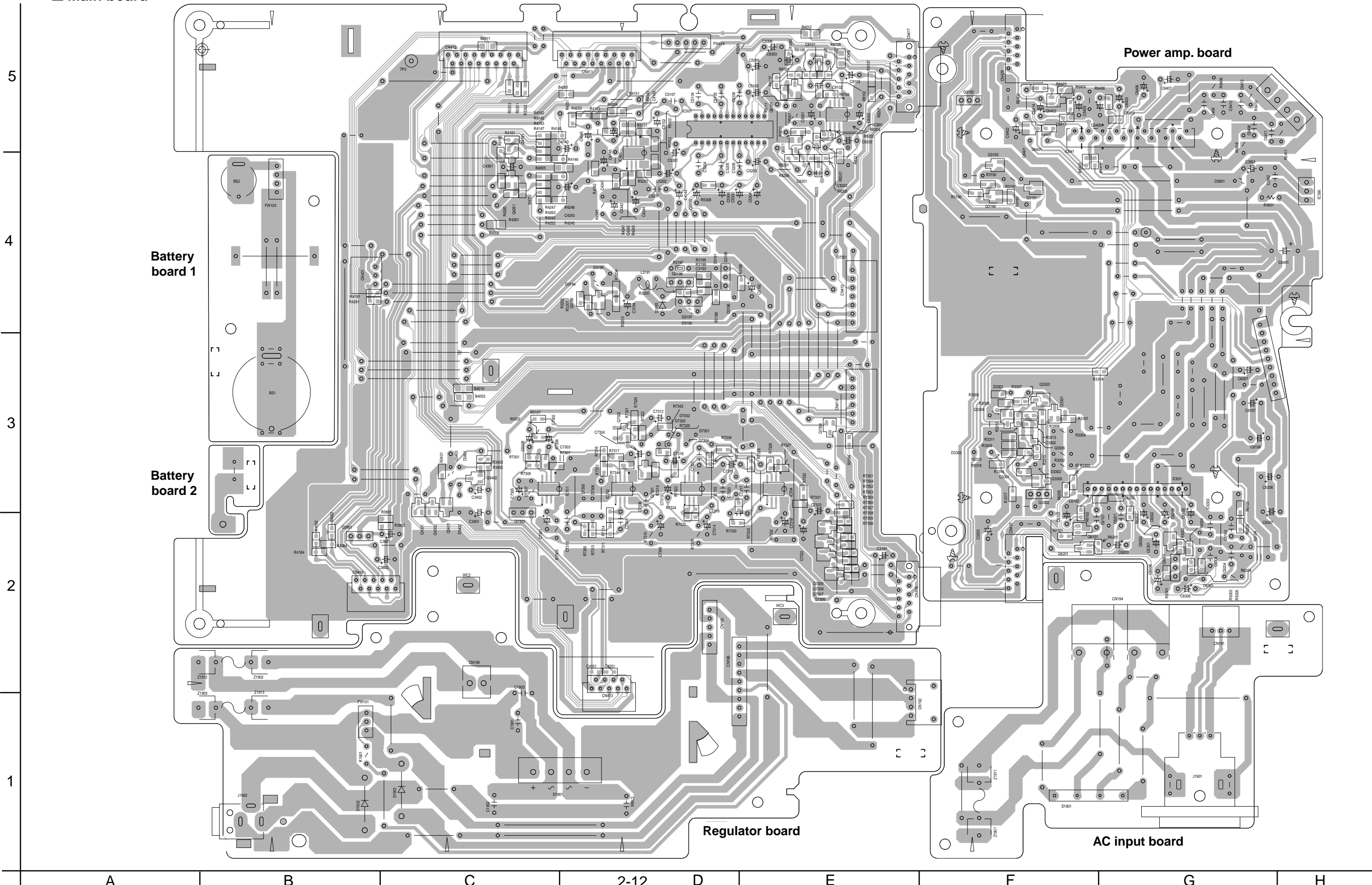
Power amp. board

Battery board 1

Battery board 2

Regulator board

AC input board



■ Micon board

