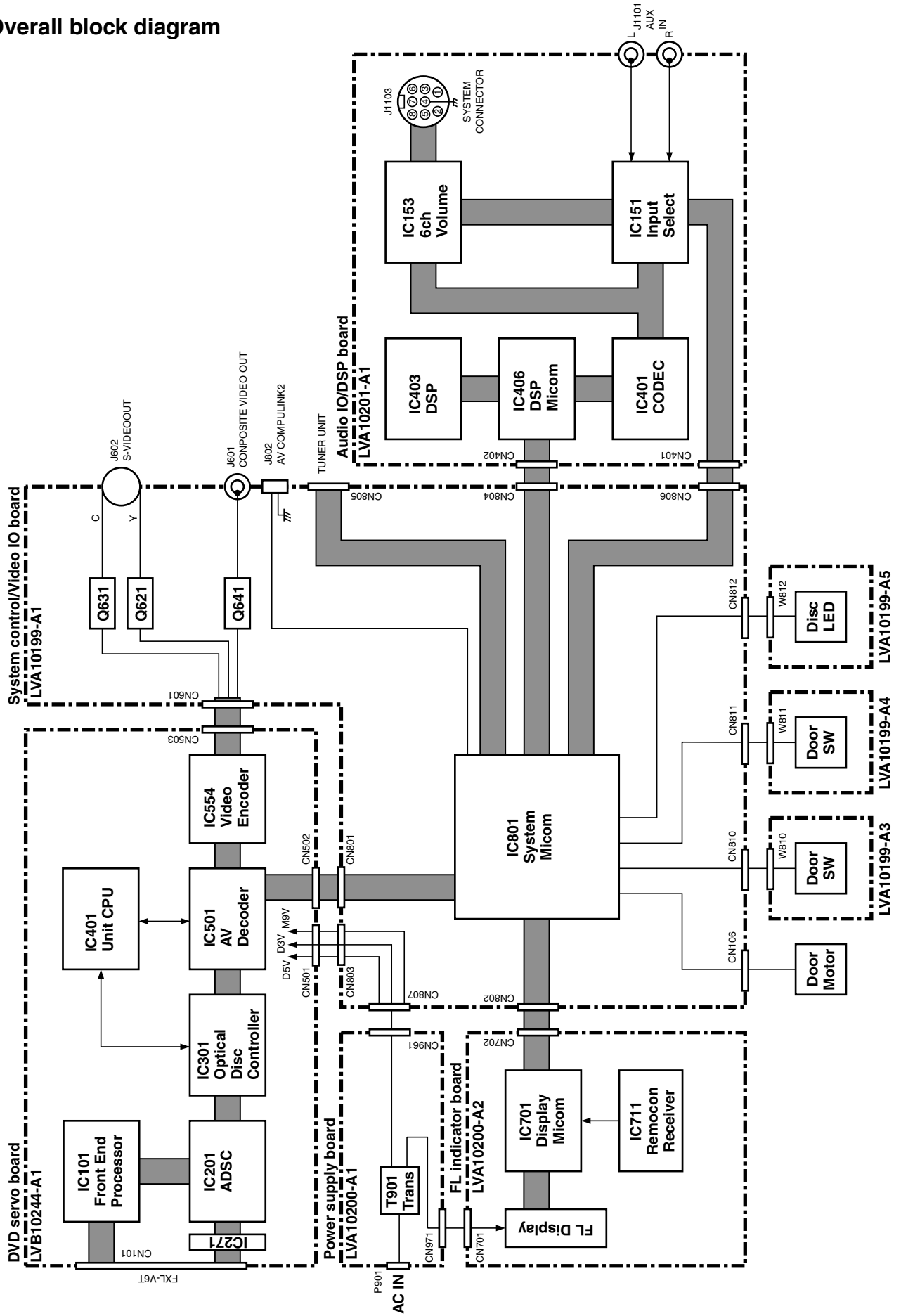
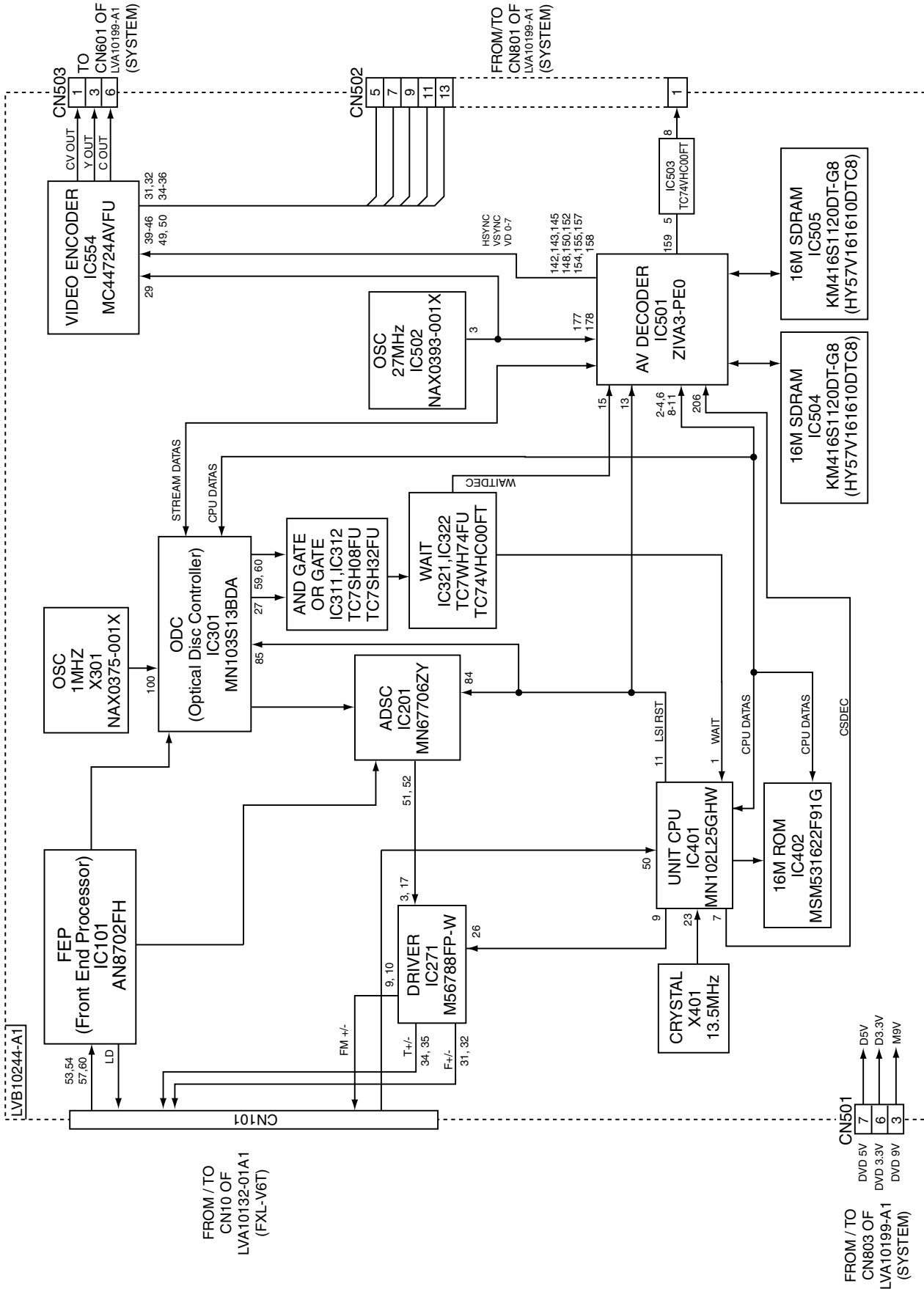


Block diagrams

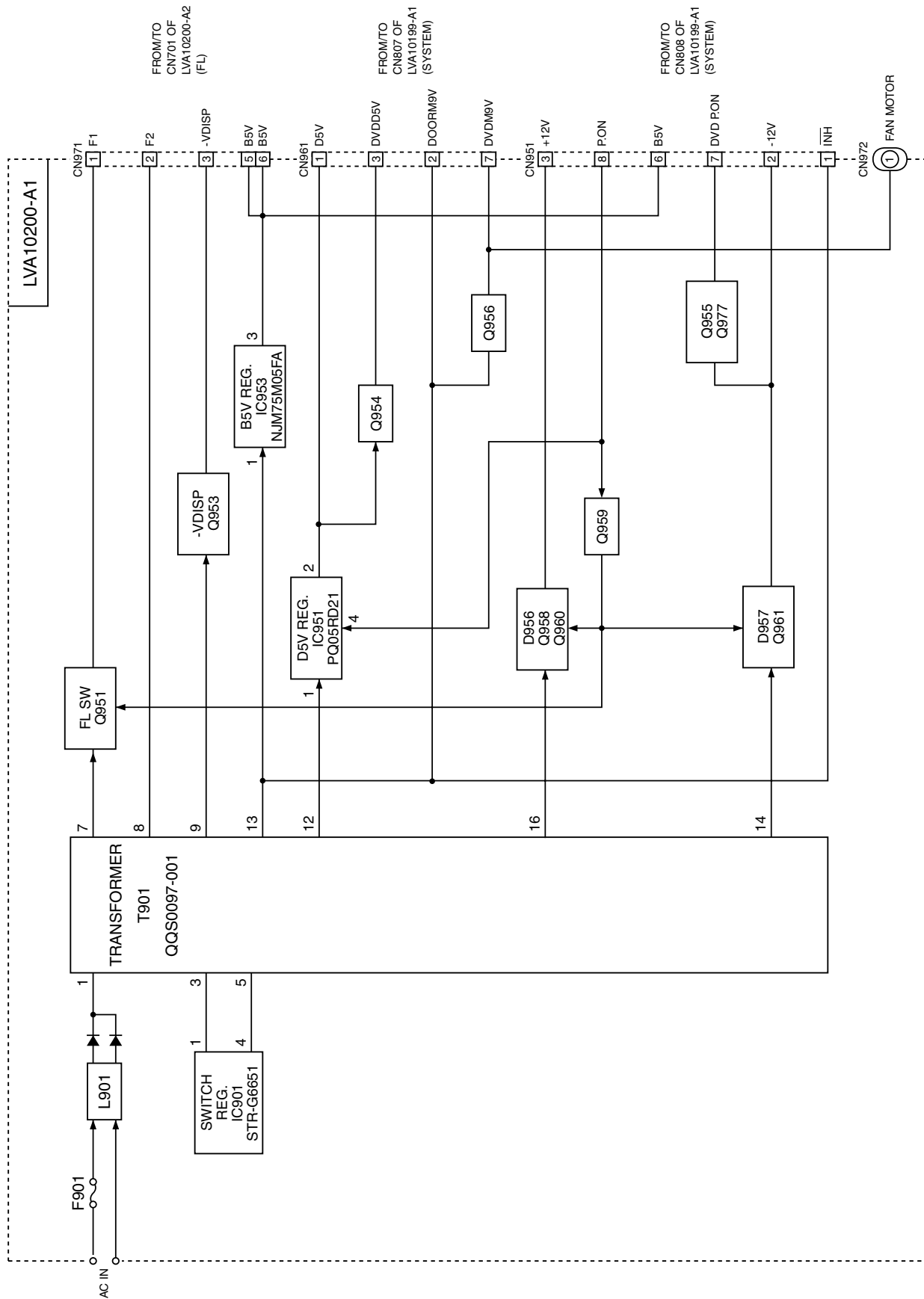
Overall block diagram



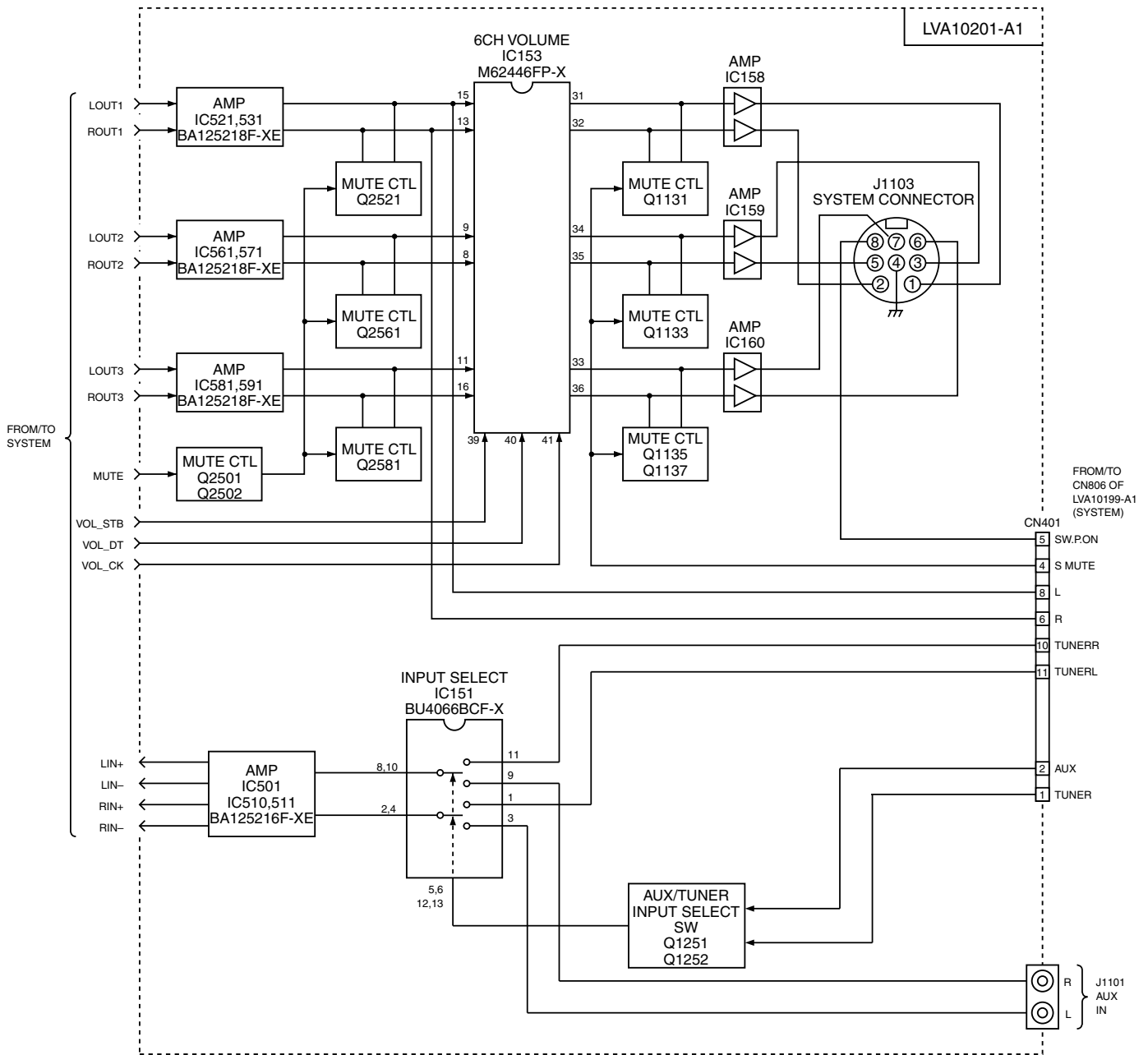
Overall block diagram



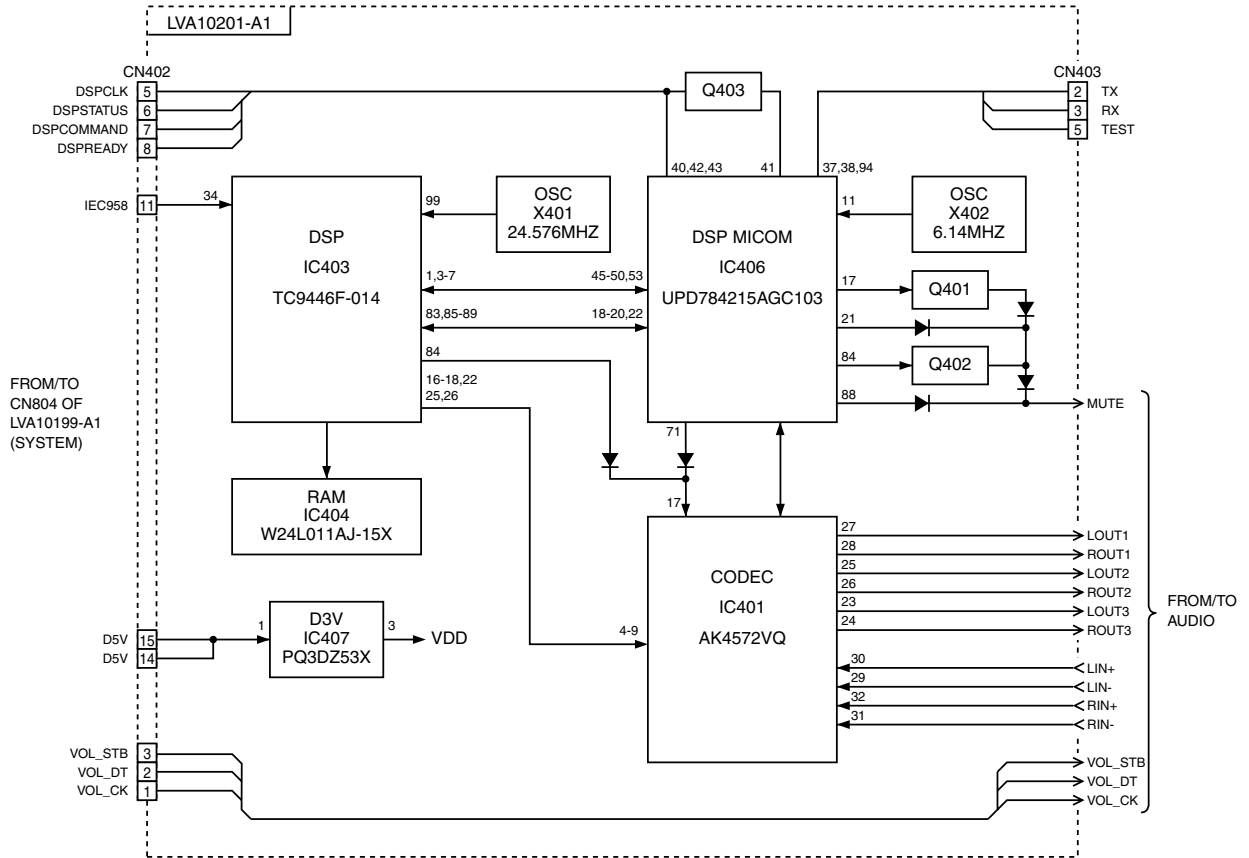
■ Block diagram (power supply section)



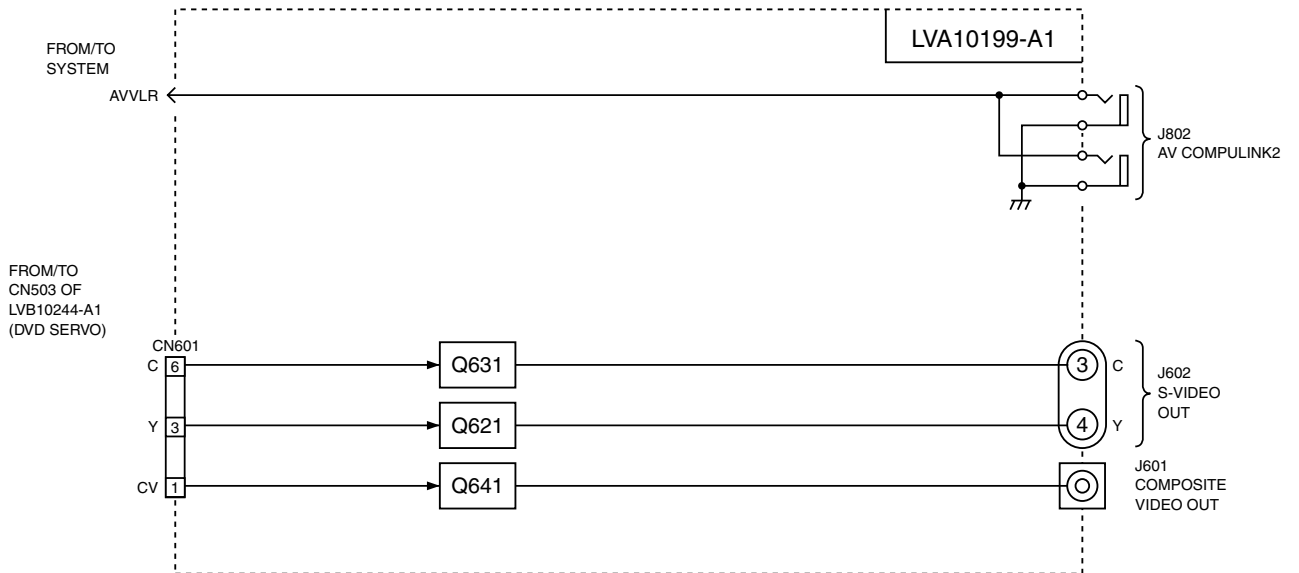
■ Block diagram (audio input/output section)



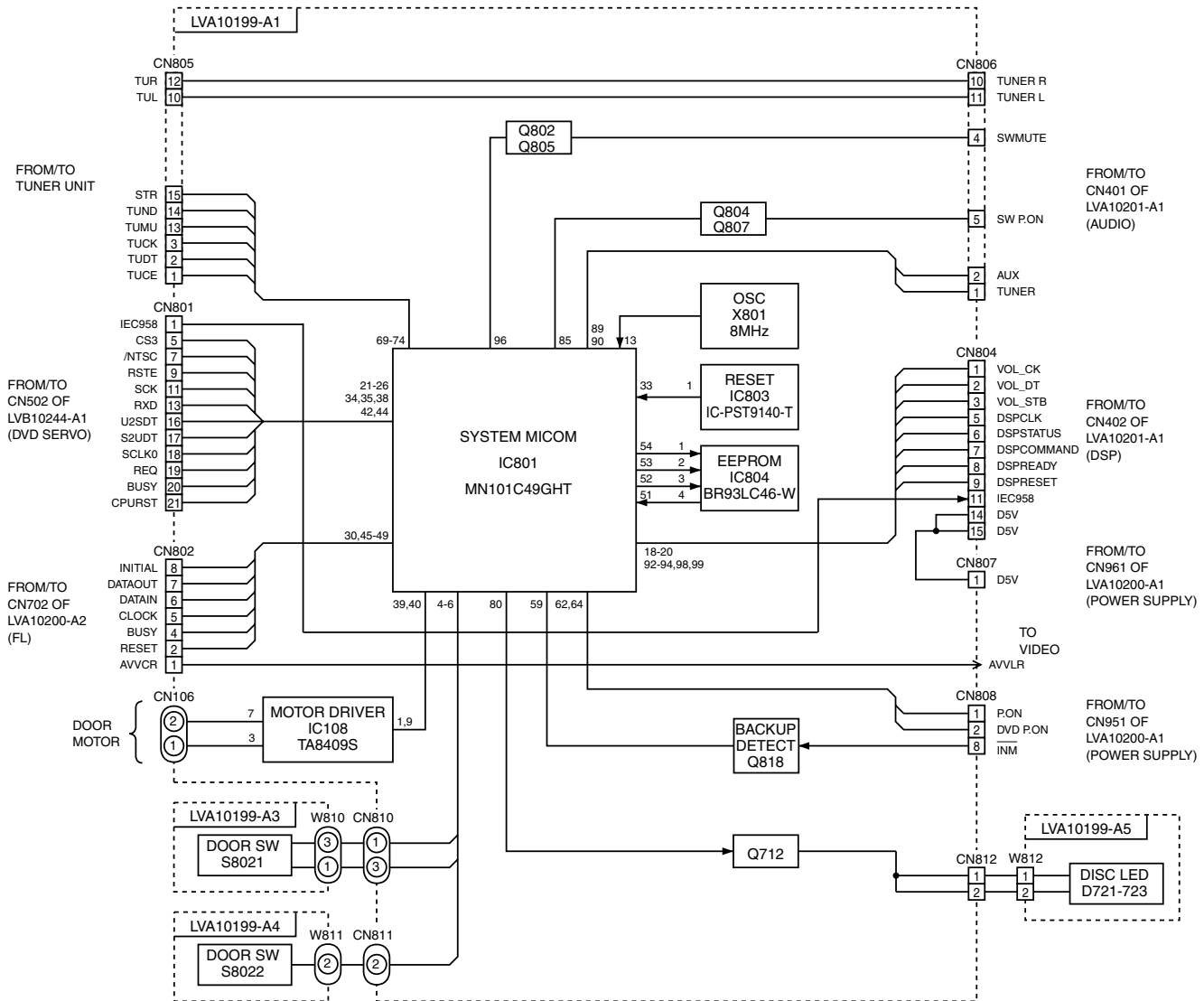
■ Block diagram (DSP section)



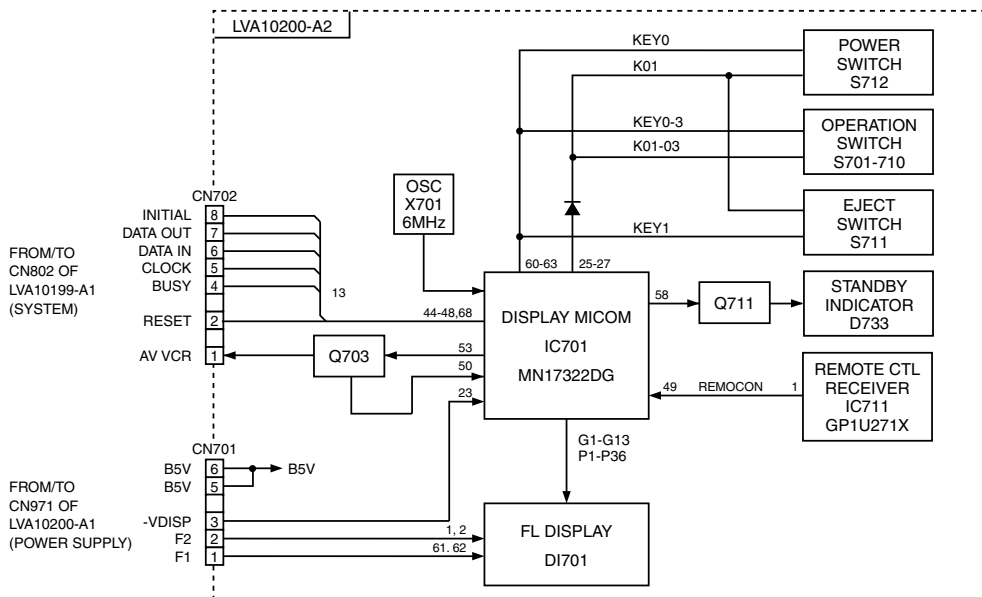
■ Block diagram (video input/output section)



■ Block diagram (system control section)



■ Block diagram (FL section)



Standard schematic diagrams

System control circuit

7
6
5
4
3
2
1

TO DVD (INTERFACE)

TO CN502 OF LVA10244-A1 (SHEET 8/9)

TO DVD (POWER)

TO CN501 OF LVA10244-A1 (SHEET 7/9)

TO POWER

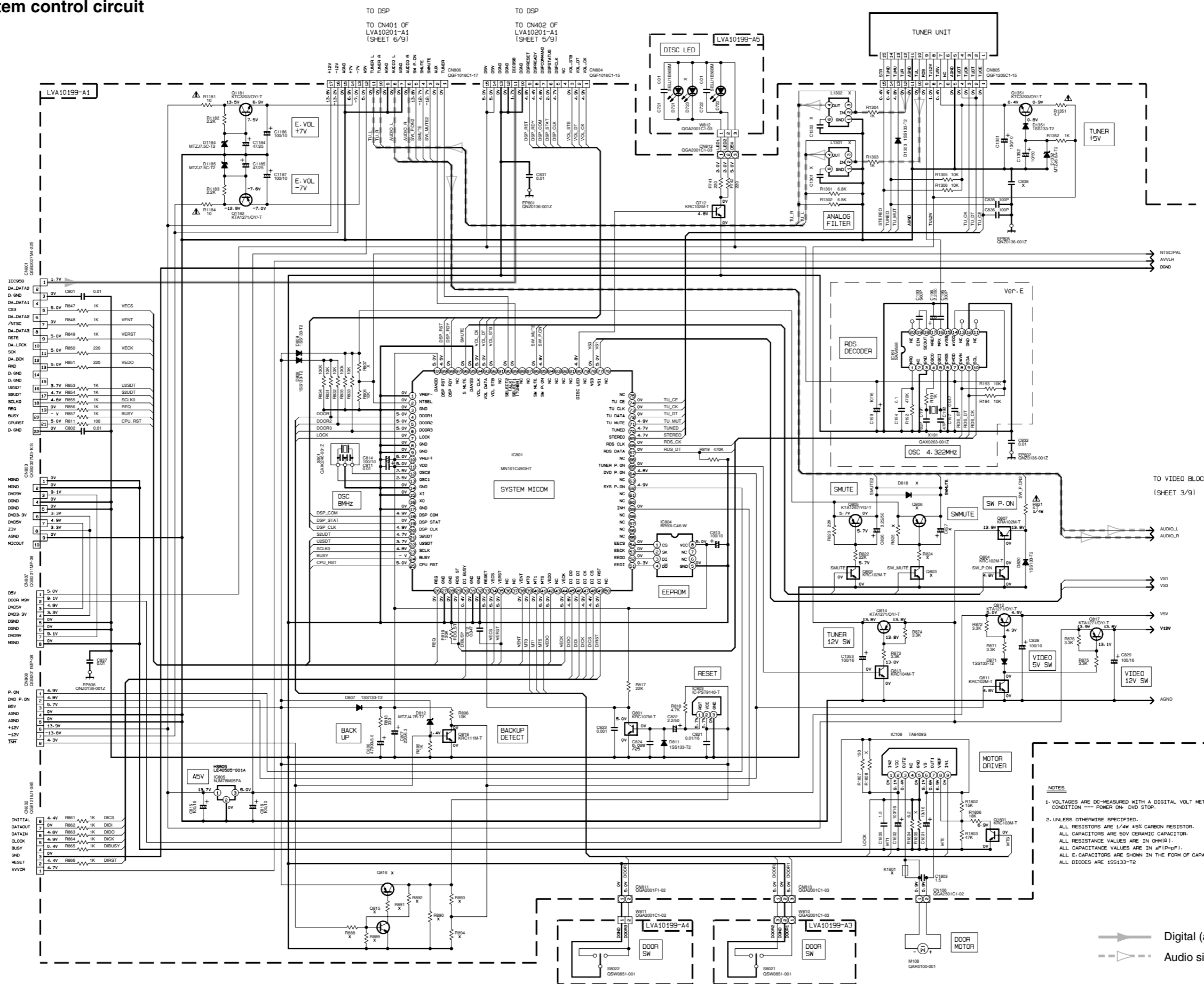
TO CN961 OF LVA10200-A1 (SHEET 1/9)

TO POWER

TO CN951 OF LVA10200-A1 (SHEET 1/9)

TO FRONT

TO CN702 OF LVA10200-A2 (SHEET 4/9)

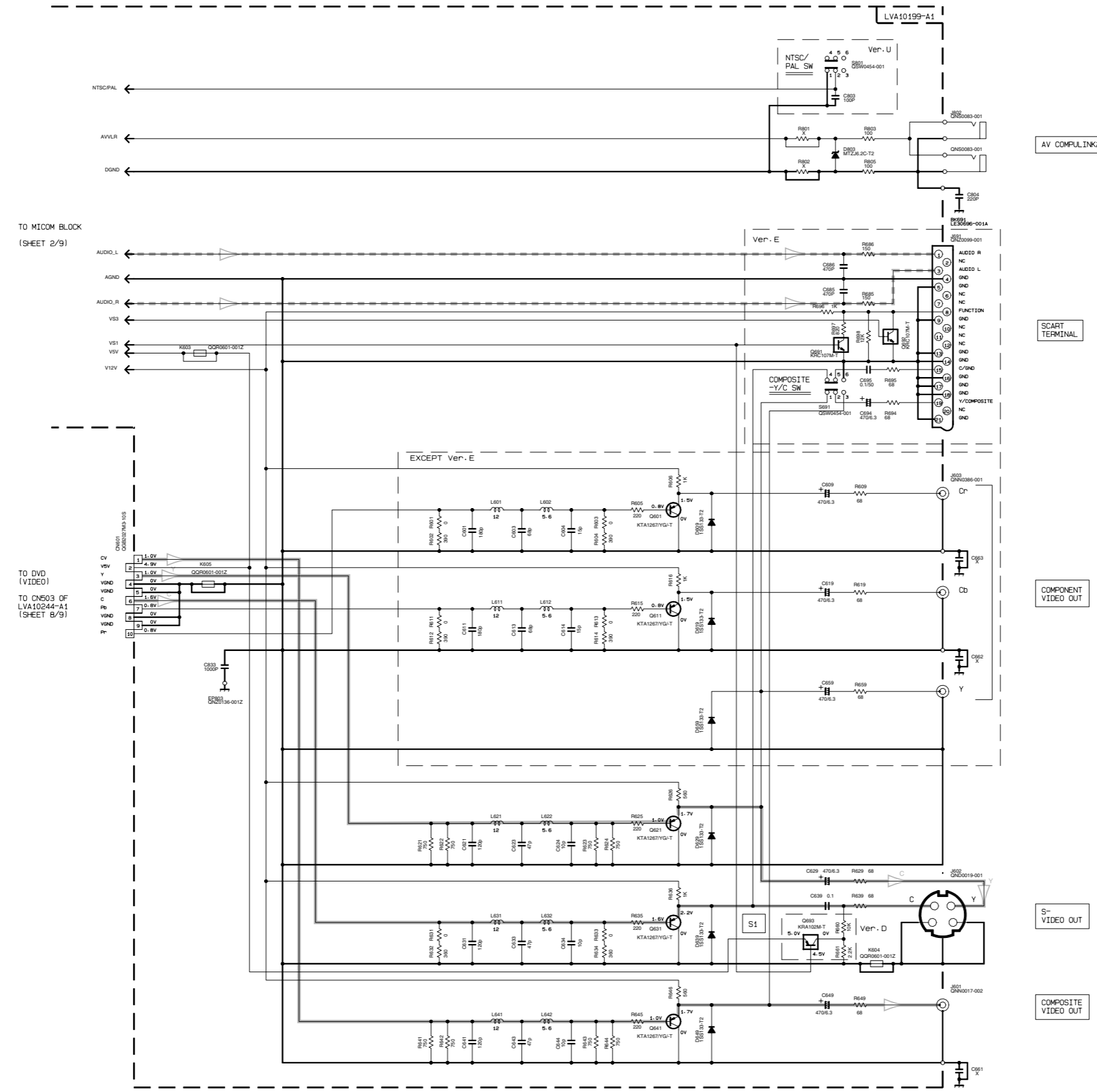


- NOTES**
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION --- POWER ON, DVD STOP.
 - UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS ARE 1/4W ±5% CARBON RESISTOR.
 ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHMS (Ω).
 ALL CAPACITANCE VALUES ARE IN μF (μF).
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
 ALL DIODES ARE 1SS133-T2

— Digital (audio) signal
 - - - Audio signal

Video input/output circuit

7
6
5
4
3
2
1



AV COMPLINK2

SCART TERMINAL

COMPONENT VIDEO OUT

S-VIDEO OUT

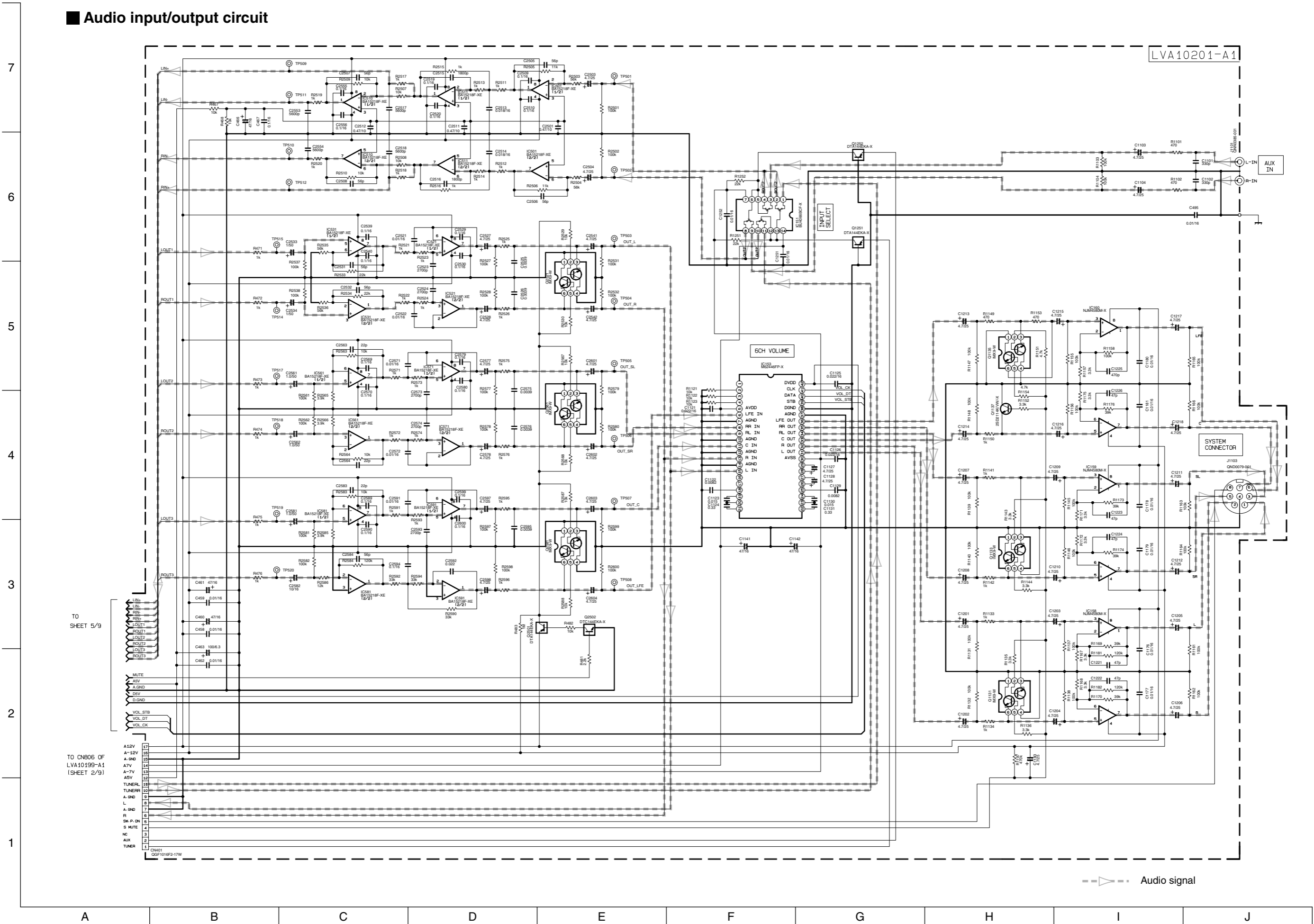
COMPOSITE VIDEO OUT

- Video (composite) signal
- Video (Y) signal
- Video (C) signal
- Audio signal

NOTES
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
 CONDITION — POWER ON DVD STOP
 2. UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS ARE 1/4W 5% CARBON RESISTOR.
 ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHM(S).
 ALL CAPACITANCE VALUES ARE IN UF(PMF1).
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(UF)/RATED VOLTAGE (V).
 ALL DIODES ARE 1SS133-12.

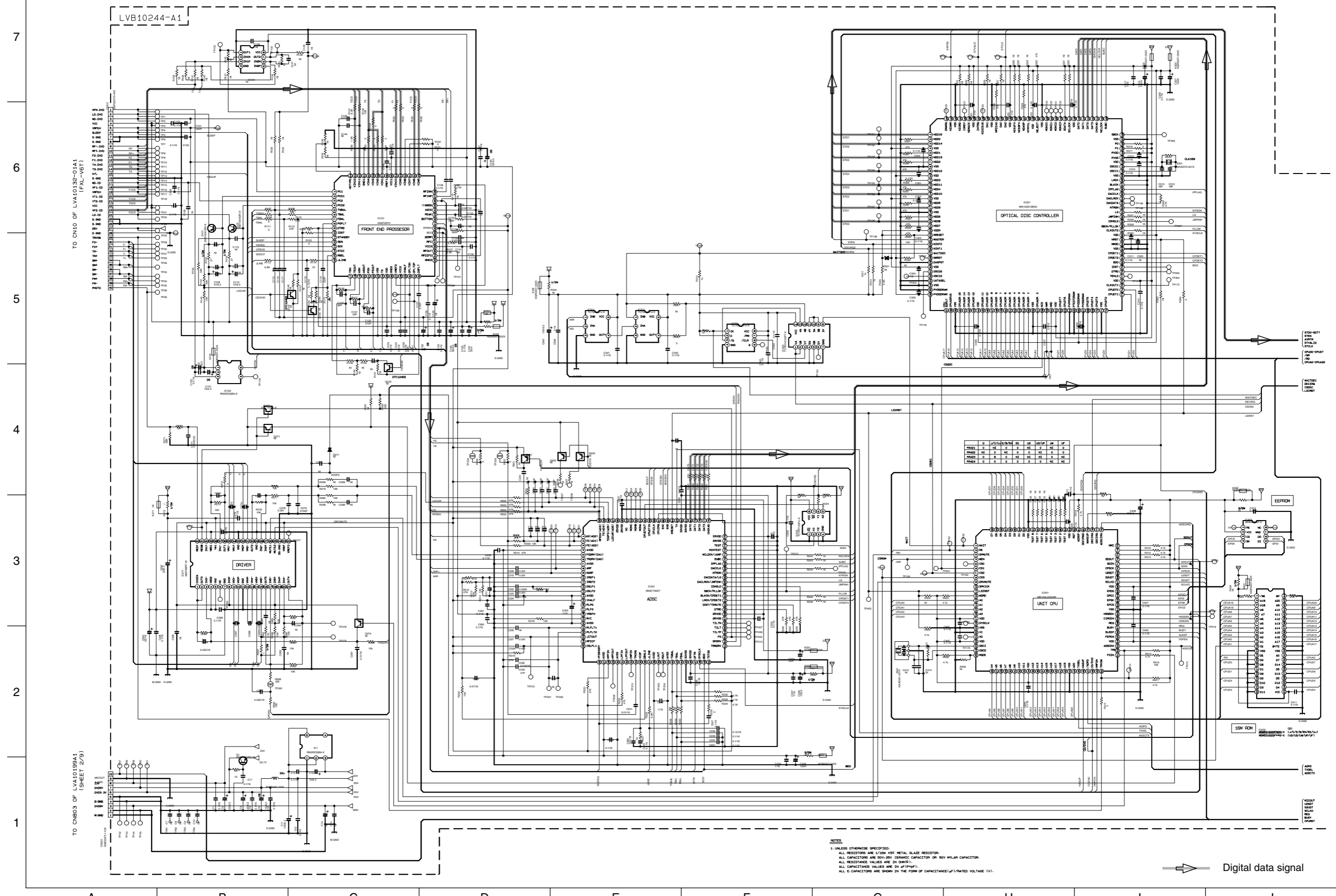
A B C D E F G H I J

Audio input/output circuit



Audio signal

DVD servo circuit 1/2



TO CN10 OF LVA10132-01A1 (FAL-V6T)

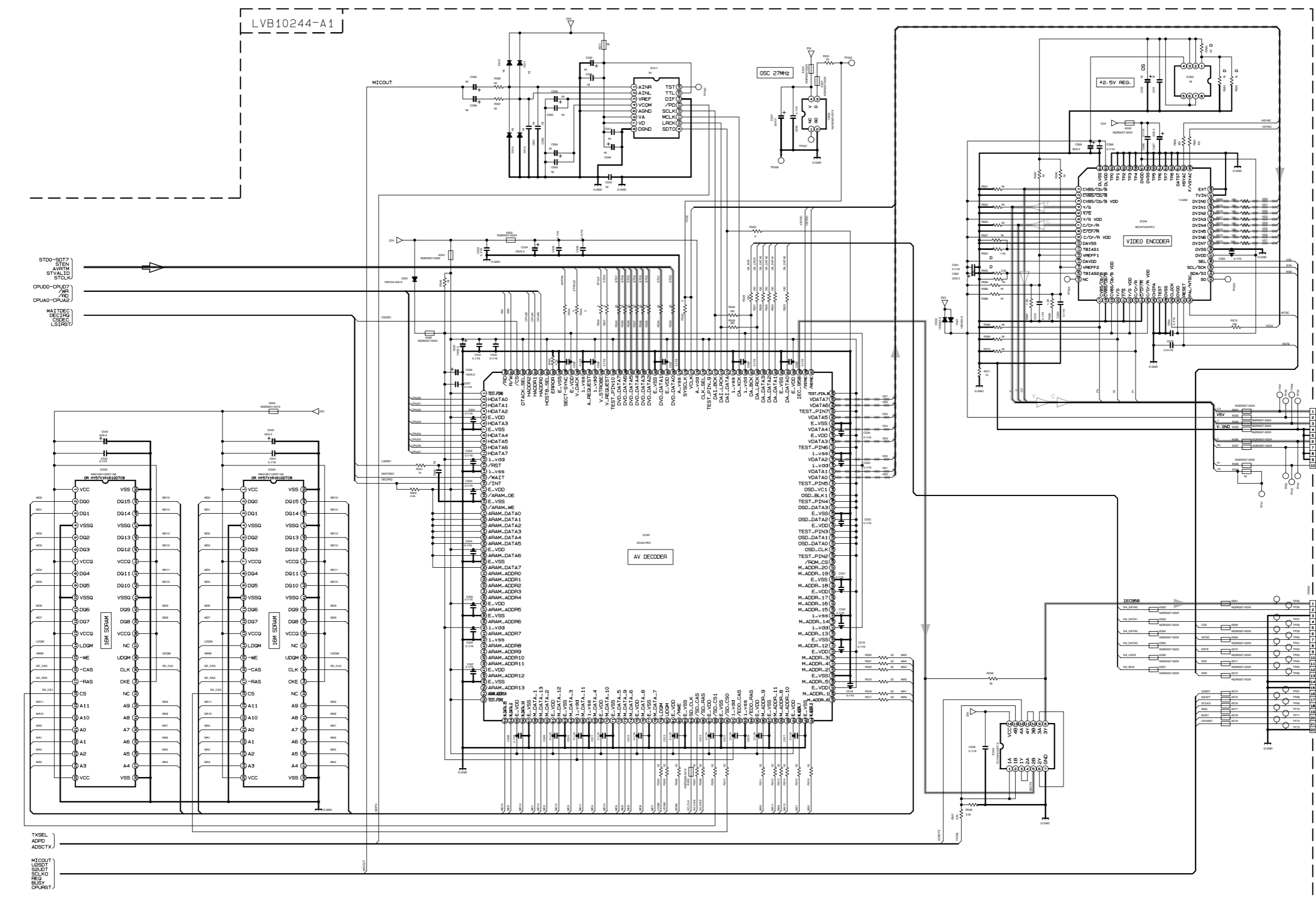
TO CNB03 OF LVA10199A1 (SHEET 2/9)

NOTES:
 1. UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS ARE 1/16W 45K METAL GLAZE RESISTOR.
 ALL CAPACITORS ARE 50V 20% CERAMIC CAPACITOR OR 50V MICLAR CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHMS (Ω).
 ALL CAPACITANCE VALUES ARE IN pF (pF).
 ALL C-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (pF)/RATED VOLTAGE (V).

Digital data signal

DVD servo circuit 2/2

7
6
5
4
3
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1



STDO-S0T7
AVT7M
STVAL1D
STCLK

CPUD0-CPUD7
M0
M1
CPUA0-CPUA2

WAITDEC
DECIRQ
OSCC
LSIRST

TXSEL
ADPD
ADSC7X

MICOUT
LSPDT
SCLCK
REQ
BUSY
CPURST

TO CN601 OF
LVA10199A1
(SHEET 3/9)

TO CN601 OF
LVA10199A1
(SHEET 2/9)

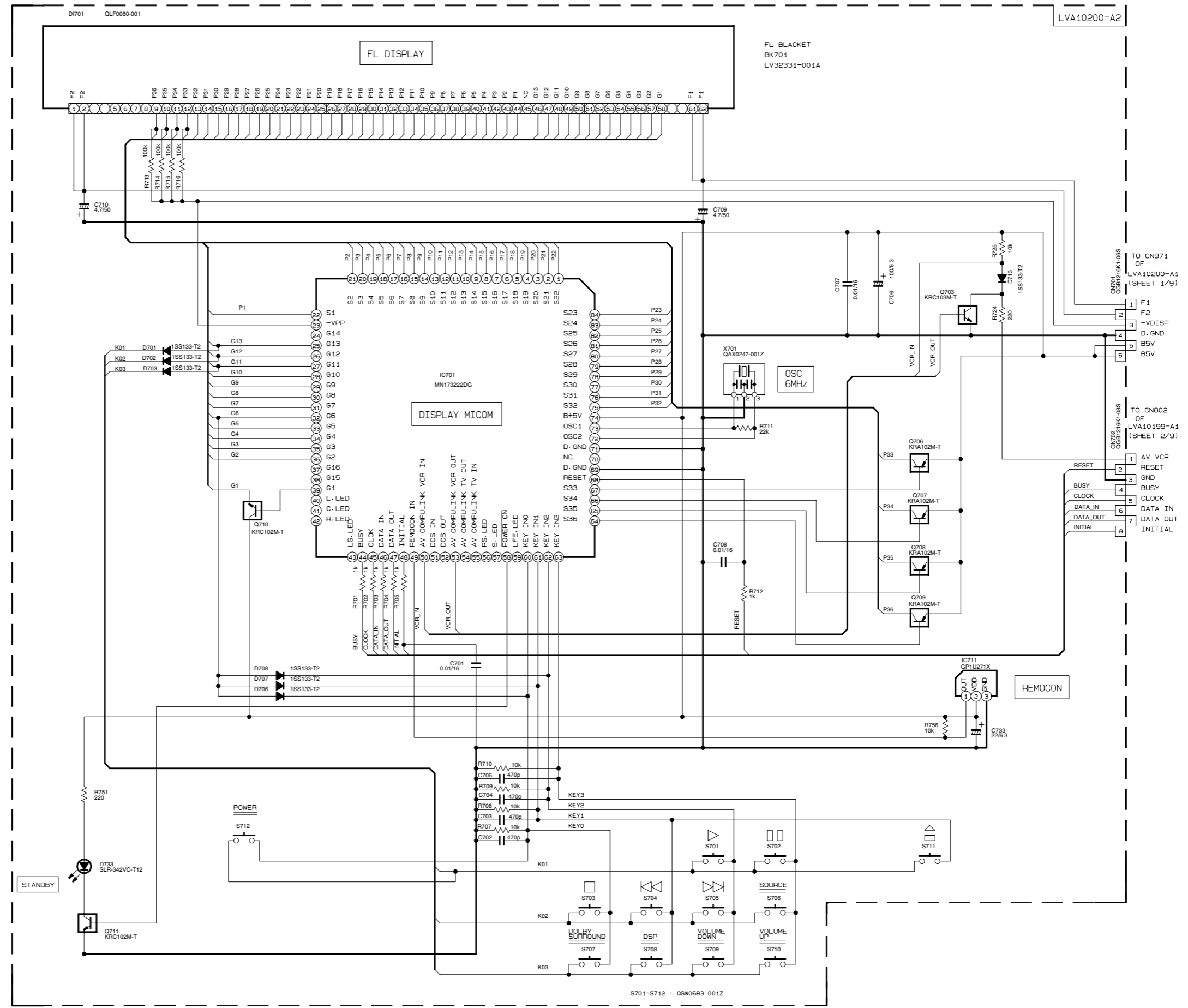


NOTES

1- UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V, 25V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHMS (Ω).
ALL CAPACITANCE VALUES ARE IN PICOFARAD (PF).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

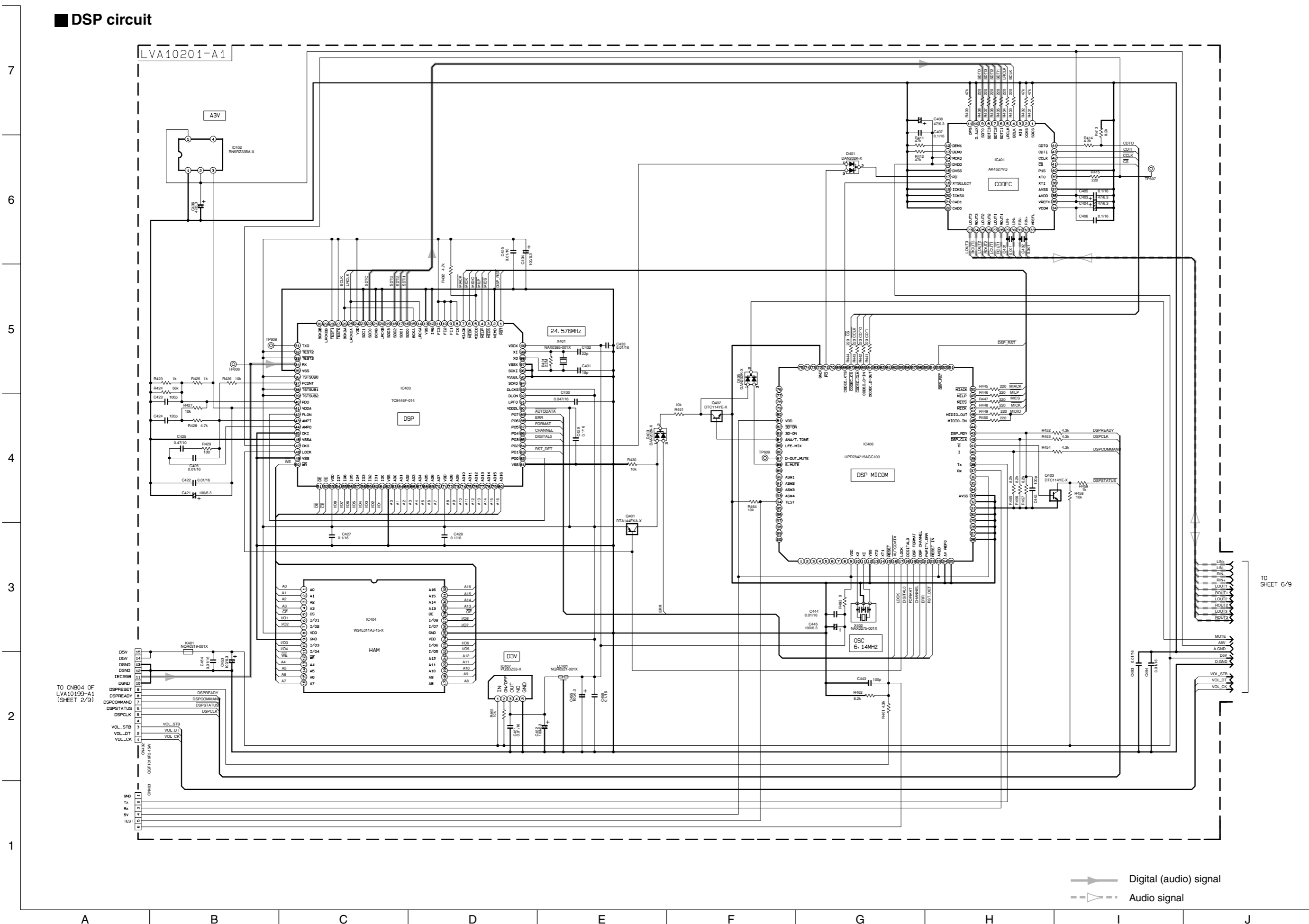
A B C D E F G H I J

FL circuit





Version	D706	D707	D708
D	NONE	USE	NONE
C/J	NONE	NONE	NONE
B/E/EN/EE	USE	NONE	NONE
UG/UJ/UP/US	NONE	NONE	USE
UM	NONE	USE	USE

DSP circuit

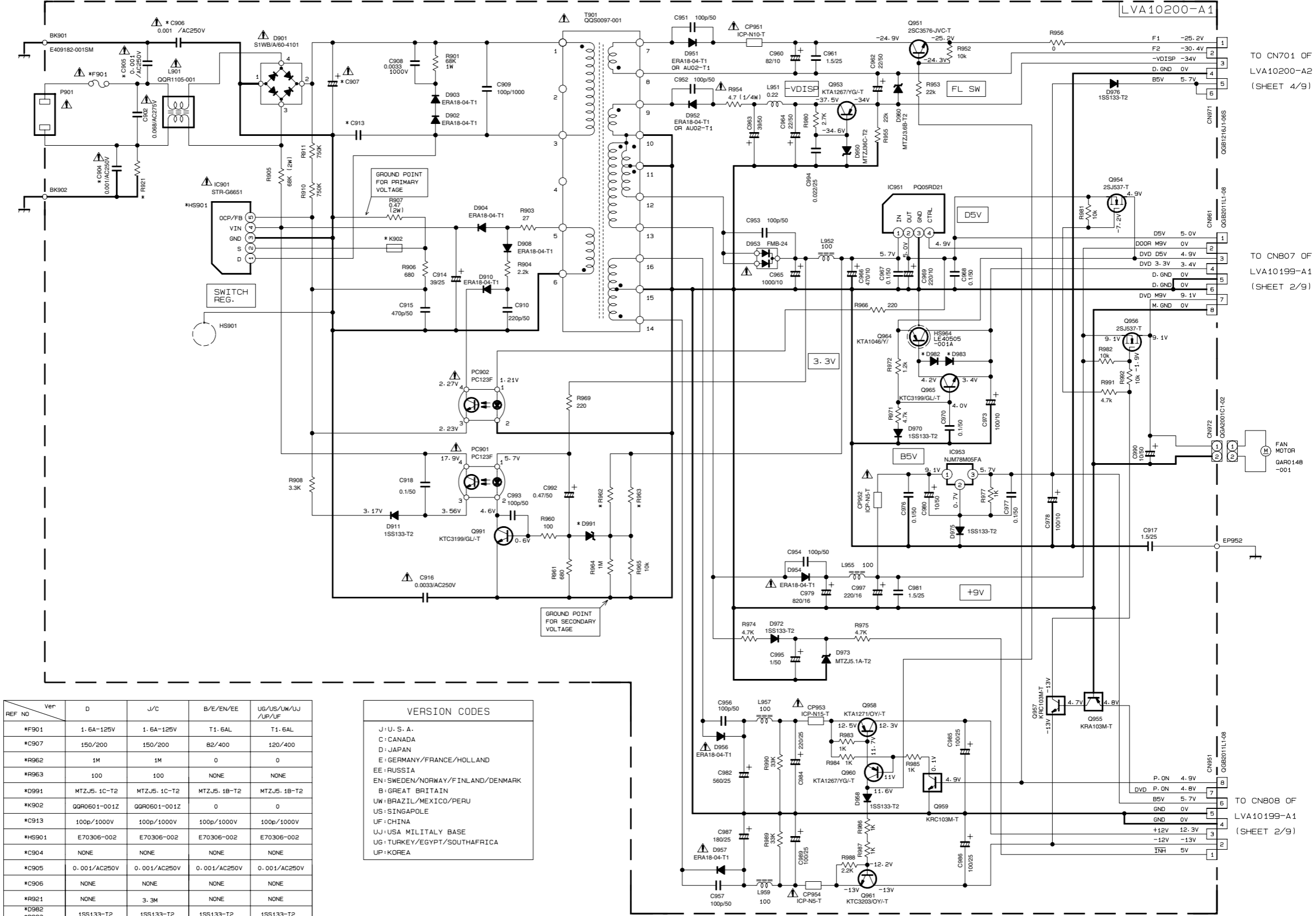


TO SHEET 6/9

 Digital (audio) signal
 Audio signal

Power supply circuit

- Ver. J/C
120V 60Hz
- Ver. D
100V 50/60Hz
- Ver. B/E/EN/EE
230V 50Hz
- Ver. UG/US/UW/UJ
110~240V 50/60Hz
- Ver. UP
220V 60Hz
- Ver. UF
220V 50Hz



REF NO	Ver	D	J/C	B/E/EN/EE	UG/US/UW/UJ /UP/UF
*F901		1.6A-125V	1.6A-125V	T1.6AL	T1.6AL
*C907		150/200	150/200	B2/400	120/400
*R962		1M	1M	0	0
*R963		100	100	NONE	NONE
*D991		MTZJ5.1C-T2	MTZJ5.1C-T2	MTZJ5.1B-T2	MTZJ5.1B-T2
*K902		QDR0501-001Z	QDR0501-001Z	0	0
*C913		100p/1000V	100p/1000V	100p/1000V	100p/1000V
*HS901		E70306-002	E70306-002	E70306-002	E70306-002
*C904		NONE	NONE	NONE	NONE
*C905		0.001/AC250V	0.001/AC250V	0.001/AC250V	0.001/AC250V
*C906		NONE	NONE	NONE	NONE
*R921		NONE	3.3M	NONE	NONE
*D982		1SS133-T2	1SS133-T2	1SS133-T2	1SS133-T2
*D983		1SS133-T2	1SS133-T2	1SS133-T2	1SS133-T2
P901		QNC0006-001	QNC0046-001	QNC0006-001	QNC0006-001

VERSION CODES

- J : U. S. A.
- C : CANADA
- D : JAPAN
- E : GERMANY/FRANCE/HOLLAND
- EE : RUSSIA
- EN : SWEDEN/NORWAY/FINLAND/DENMARK
- B : GREAT BRITAIN
- UW : BRAZIL/MEXICO/PERU
- US : SINGAPOLE
- UF : CHINA
- UJ : USA MILITARY BASE
- UG : TURKEY/EGYPT/SOUTHAFRICA
- UP : KOREA

TO CN701 OF
LVA10200-A2
(SHEET 4/9)

TO CN807 OF
LVA10199-A1
(SHEET 2/9)

TO CN808 OF
LVA10199-A1
(SHEET 2/9)

Voltage value table

IC102	IC101	IC311	IC301	IC312	IC321	IC322	IC401	IC402	IC403	IC501	IC502	IC504	IC505	IC554	IC503
NO DC(V) 1 0V 2 5.0V 3 0V 4 4.3V 5 0V	NO DC(V) 1 0V 2 4.2V 3 0V 4 4.3V 5 1.7V 6 1.7V 7 1.7V 8 4.1V 9 3.3V 10 0V 11 4.9V 12 4.9V 13 4.9V 14 4.9V 15 1.2V 16 1.7V	NO DC(V) 1 5.0V 2 4.6V 3 0V 4 4.7V 5 5.0V	NO DC(V) 1 3.3V 2 3.3V 3 3.3V 4 3.3V 5 0V 6 3.3V 7 3.3V 8 0V 9 3.3V 10 3.6V 11 3.3V 12 3.3V 13 3.3V 14 3.3V 15 3.3V 16 3.3V 17 3.3V 18 0V 19 0V 20 3.3V 21 3.3V 22 4.5V 23 4.5V 24 0V 25 0.1V 26 4.9V 27 4.9V 28 1.4V 29 0V 30 3.3V 31 0V 32 3.3V 33 0V 34 0V 35 0V 36 2.6V	NO DC(V) 1 5.0V 2 4.7V 3 0V 4 5.0V 5 5.0V	NO DC(V) 1 5.0V 2 5.0V 3 5.0V 4 0V 5 0V 6 0V 7 5.0V 8 5.0V	NO DC(V) 1 5.0V 2 5.0V 3 0V 4 0V 5 0V 6 5.0V 7 0V 8 5.0V 9 0V 10 0V 11 0V 12 5.0V 13 5.0V 14 5.0V	NO DC(V) 1 5.0V 2 2.7V 3 1.8V 4 5.0V 5 0V 6 5.0V 7 5.0V 8 4.4V 9 5.0V 10 0V 11 4.9V 12 5.0V 13 0V 14 0V 15 2.1V 16 1.9V 17 5.0V 18 2.3V 19 0V 20 0V 21 5.0V 22 2.4V 23 2.4V 24 2.4V 25 5.0V	NO DC(V) 1 4.9V 2 0V 3 0V 4 3.5V 5 1.7V 6 2.1V 7 1.8V 8 2.7V 9 1.9V 10 2.1V 11 0V 12 0V 13 3.2V 14 0V 15 3.1V 16 3.1V 17 3.2V 18 0V 19 0V 20 0V 21 0V 22 0V 23 0V 24 0V 25 3.2V	NO DC(V) 1 4.9V 2 5.0V 3 0V 4 0V 5 0V 6 1.0V 7 0V 8 0V	NO DC(V) 1 3.1V 2 0V 3 1.6V 4 3.2V	NO DC(V) 1 1.3V 2 0V 3 5V 4 1.27V 5 0V 6 5V 7 2.1V 8 0V 9 5V 10 0V 11 2.8V 12 2.8V 13 5V 14 2.7V 15 0V 16 0V	NO DC(V) 1 3.1V 2 0V 3 0V 4 2.0V 5 3.1V 6 1.6V 7 0V 8 0V 9 2.4V 10 2.9V 11 2.6V 12 2.5V 13 5.0V 14 0V 15 5.0V 16 3.1V 17 3.1V 18 3.1V 19 0V 20 3.1V 21 3.1V 22 3.1V 23 3.1V 24 3.1V 25 3.1V 26 3.1V 27 3.1V 28 3.1V 29 0V 30 3.1V 31 0V 32 0V 33 0V 34 0V 35 3.1V 36 3.1V 37 0V 38 0V 39 0V 40 2.5V 41 3.1V 42 0V 43 3.1V 44 0V 45 3.1V 46 3.1V 47 0V 48 3.1V 49 0V 50 3.1V 51 0V 52 3.1V	NO DC(V) 1 1.3V 2 0V 3 5V 4 1.27V 5 0V 6 5V 7 2.1V 8 0V 9 5V 10 0V 11 2.8V 12 2.8V 13 5V 14 2.7V 15 0V 16 0V	NO DC(V) 1 0V 2 0V 3 3.2V 4 3.2V 5 1.6V 6 1.6V 7 0V 8 1.6V 9 1.6V 10 3.2V 11 3.2V 12 3.2V 13 0V 14 3.2V	

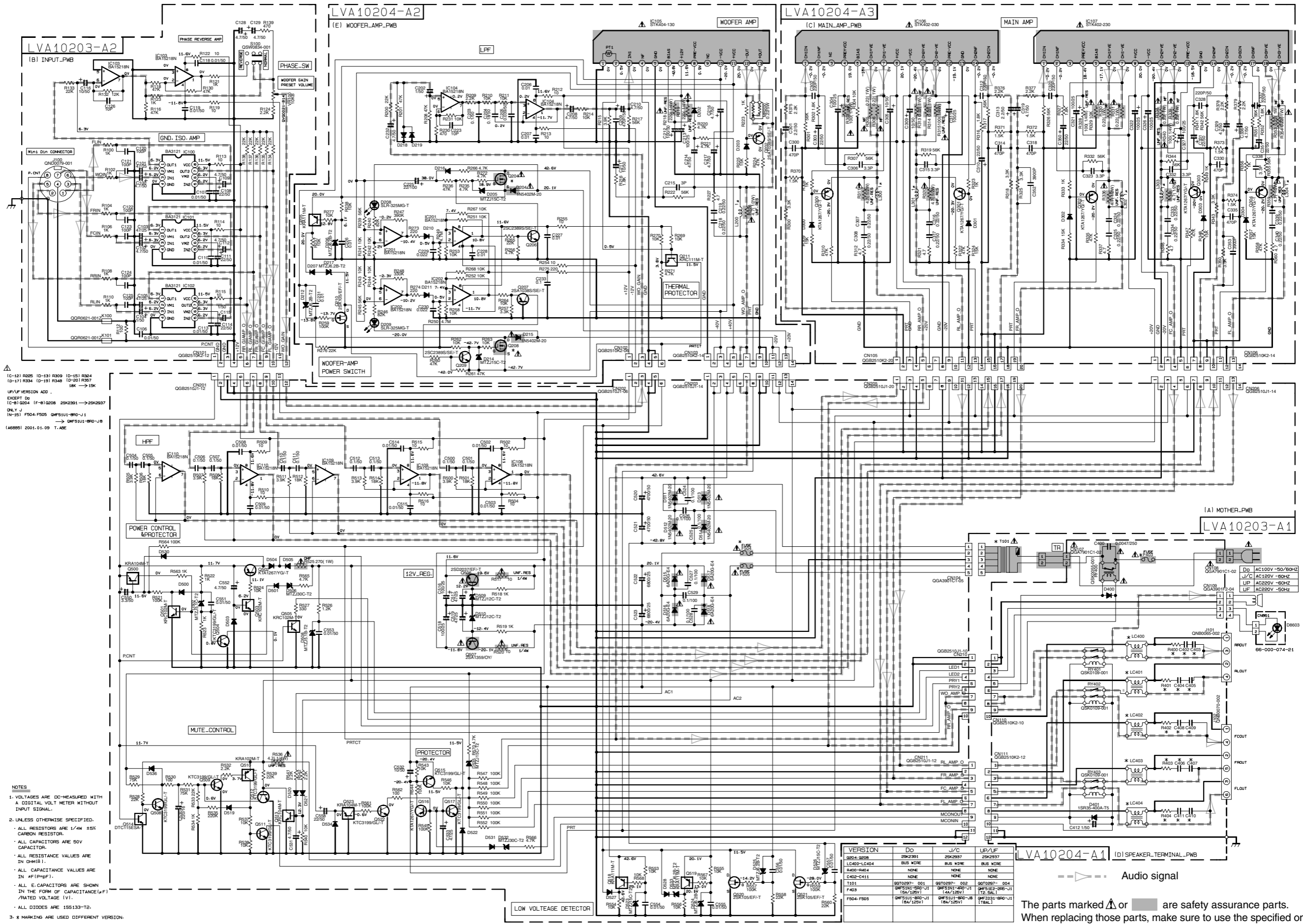
VOLTAGES ON SHEET 7/9
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER

VOLTAGES ON SHEET 8/9

7
6
5
4
3
2
1

A B C D E F G H I J

Powered subwoofer circuit (SP-PWA9)



(C-12) R205 (D-13) R309 (D-15) R304
 (D-17) R334 (D-19) R348 (D-20) R357
 10K → 10K
 U/F VERSION ADD .
 EXCEPT DO (C-8) Q208 29K291 → 29K337
 DLY J (N-15) F504-F505 90F511-00V-11
 (A6885) 2001-01-09 T.ABC

- 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 50V CAPACITOR.
 - ALL RESISTANCE VALUES ARE IN OHM(Ω).
 - ALL CAPACITANCE VALUES ARE IN #F(P=PF).
 - ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(LF) / RATED VOLTAGE (V).
 - ALL DIODES ARE 1SS133-T2.
 - * MARKING ARE USED DIFFERENT VERSION.

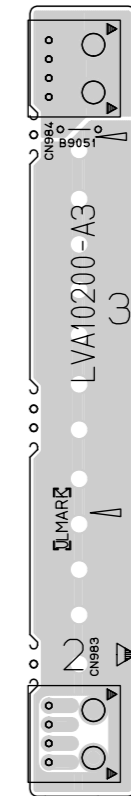
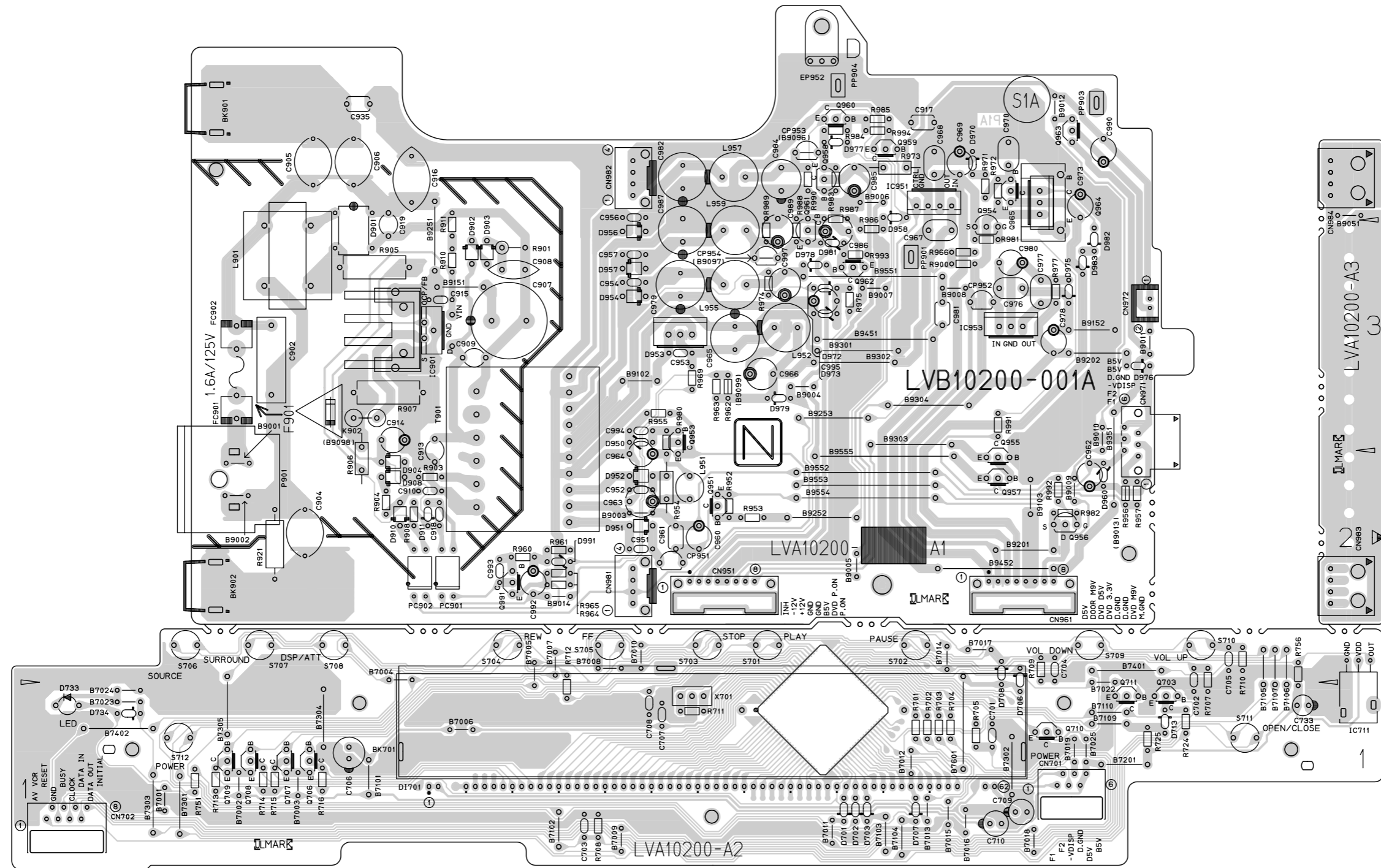
---▶--- Audio signal
 The parts marked ▲ or ■ are safety assurance parts.
 When replacing those parts, make sure to use the specified one.

Printed circuit boards

■ Power supply and front panel boards

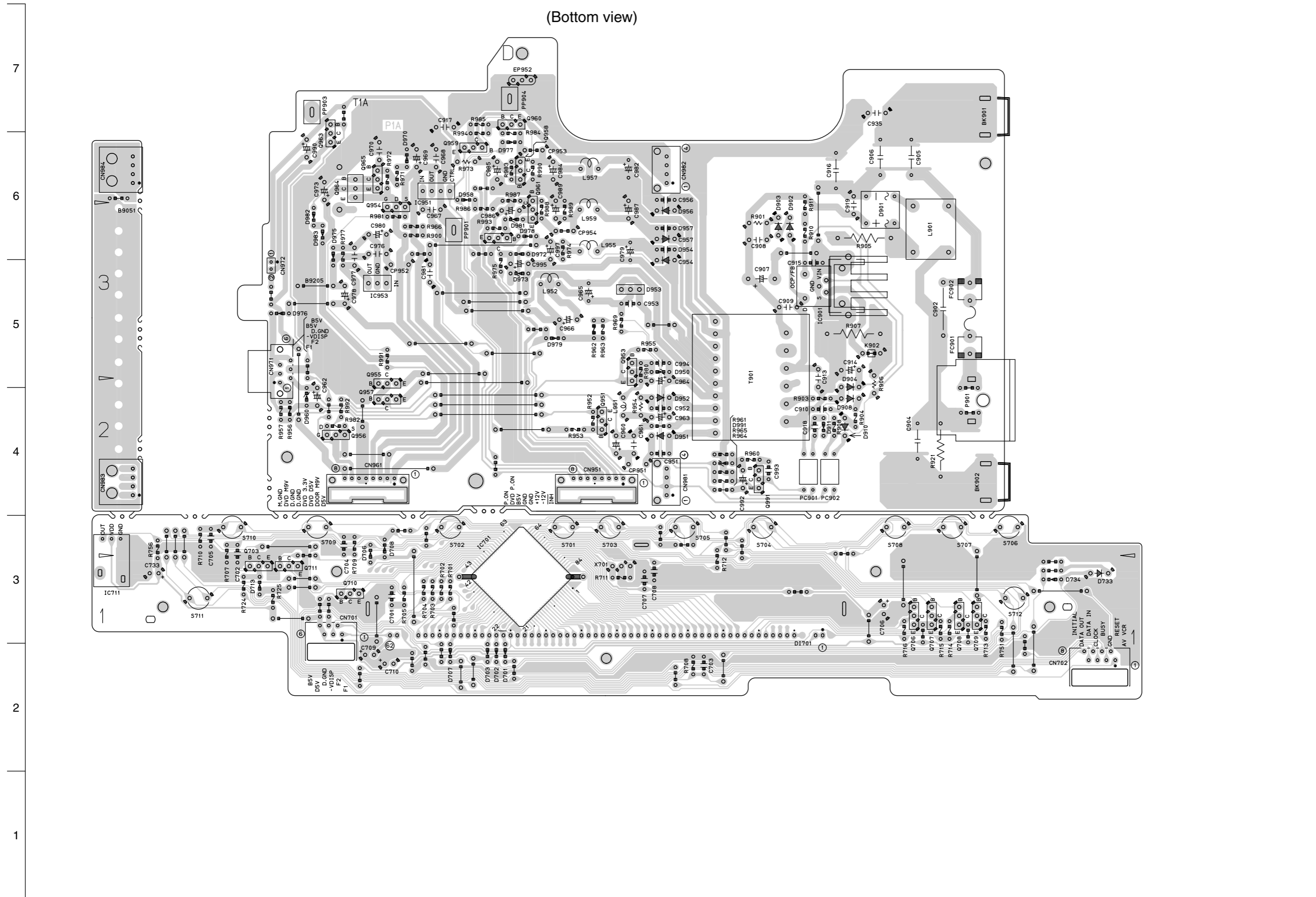
(Surface view)

7
6
5
4
3
2
1



A B C D E F G H I J

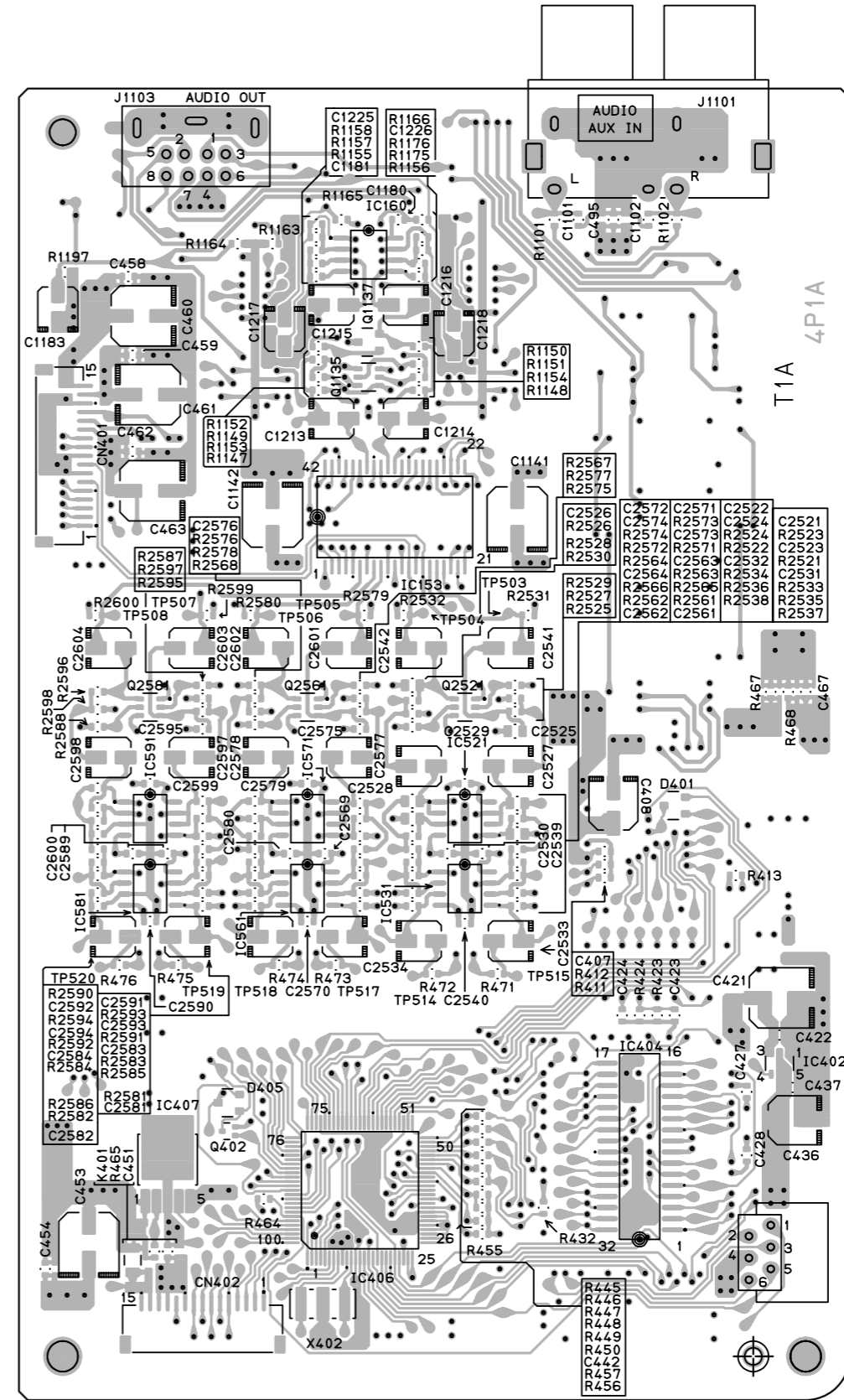
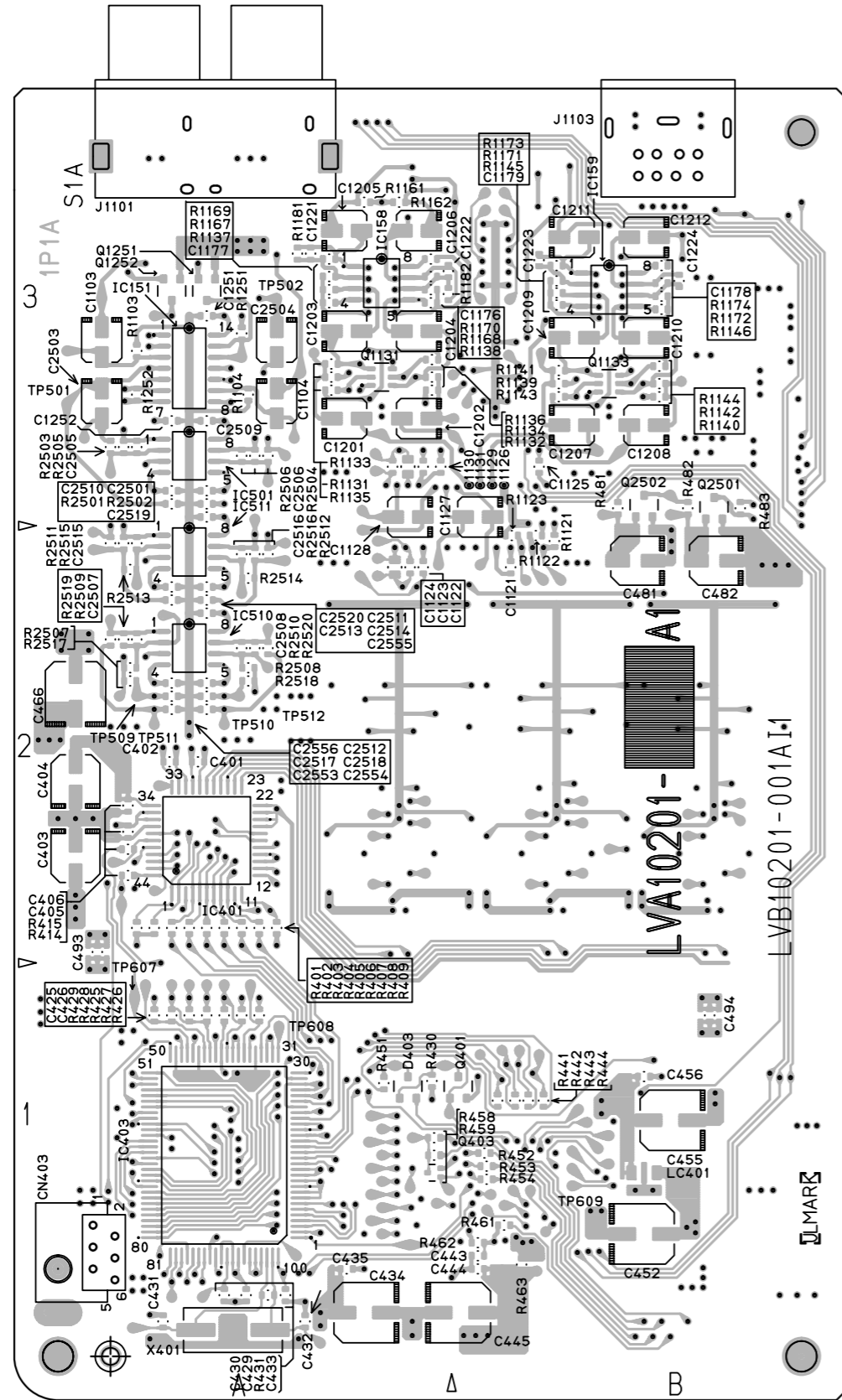
(Bottom view)



■ Audio input/output and DSP boards

(Surface view)

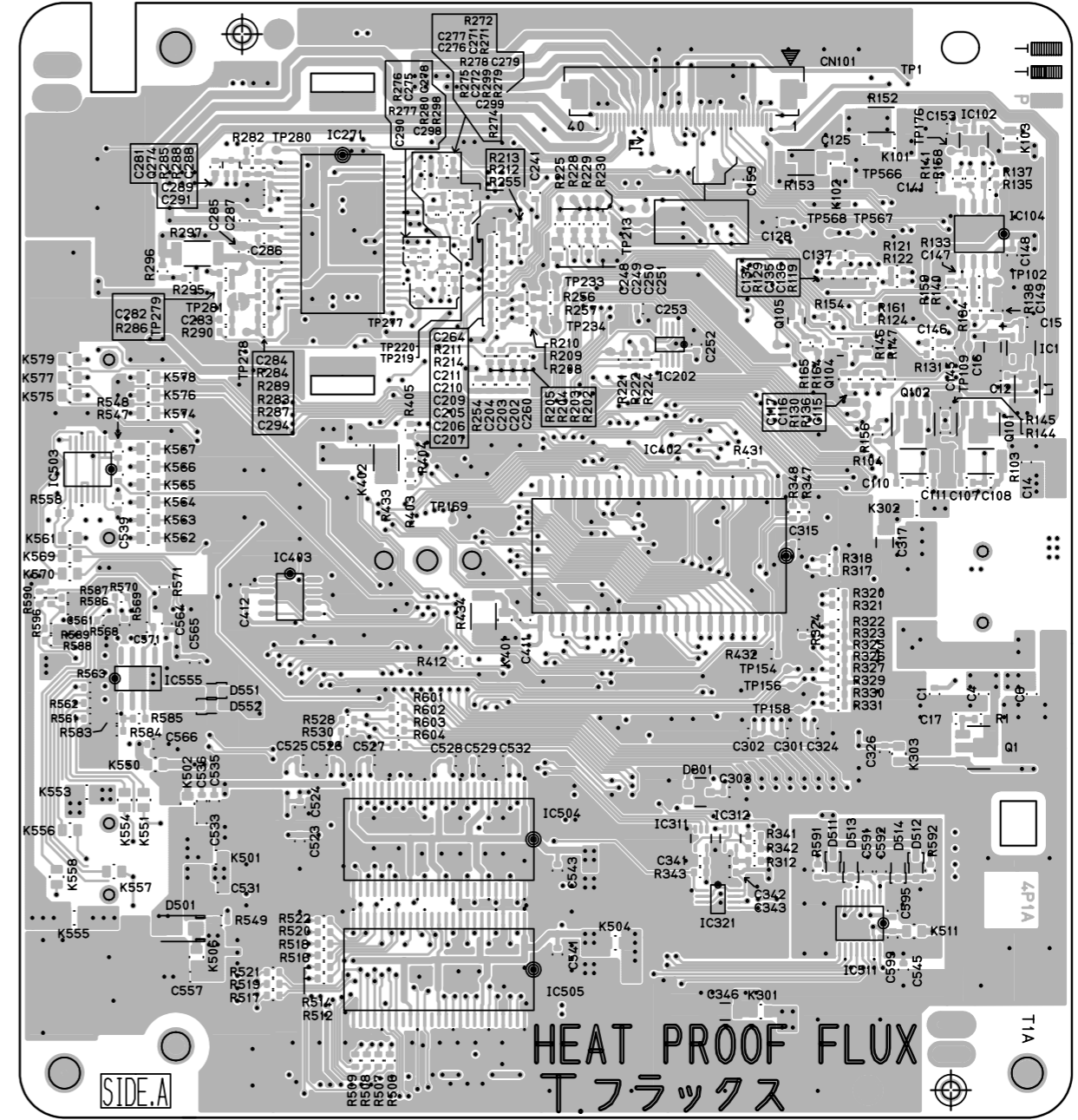
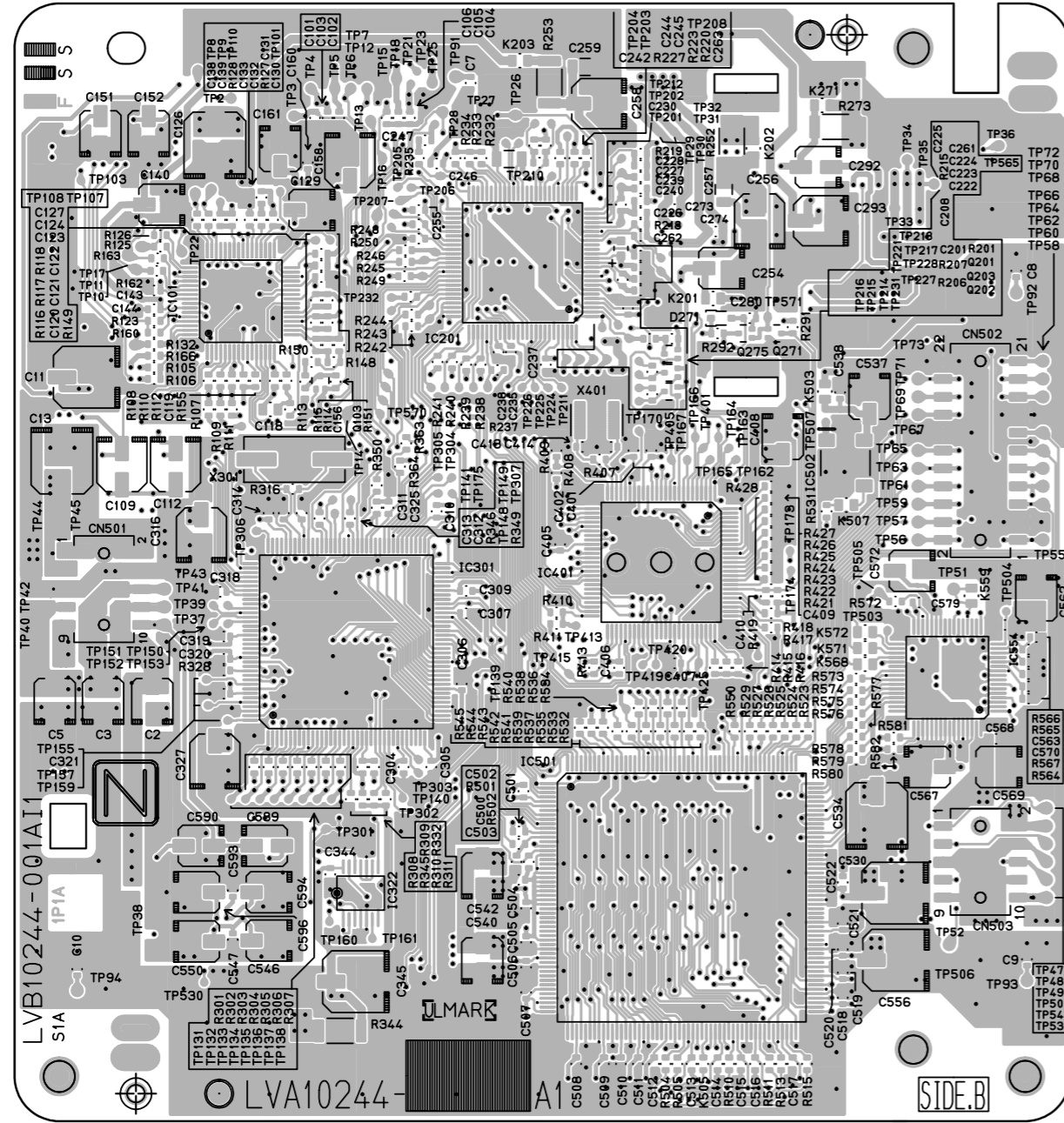
(Bottom view)



DVD servo board

(Surface view)

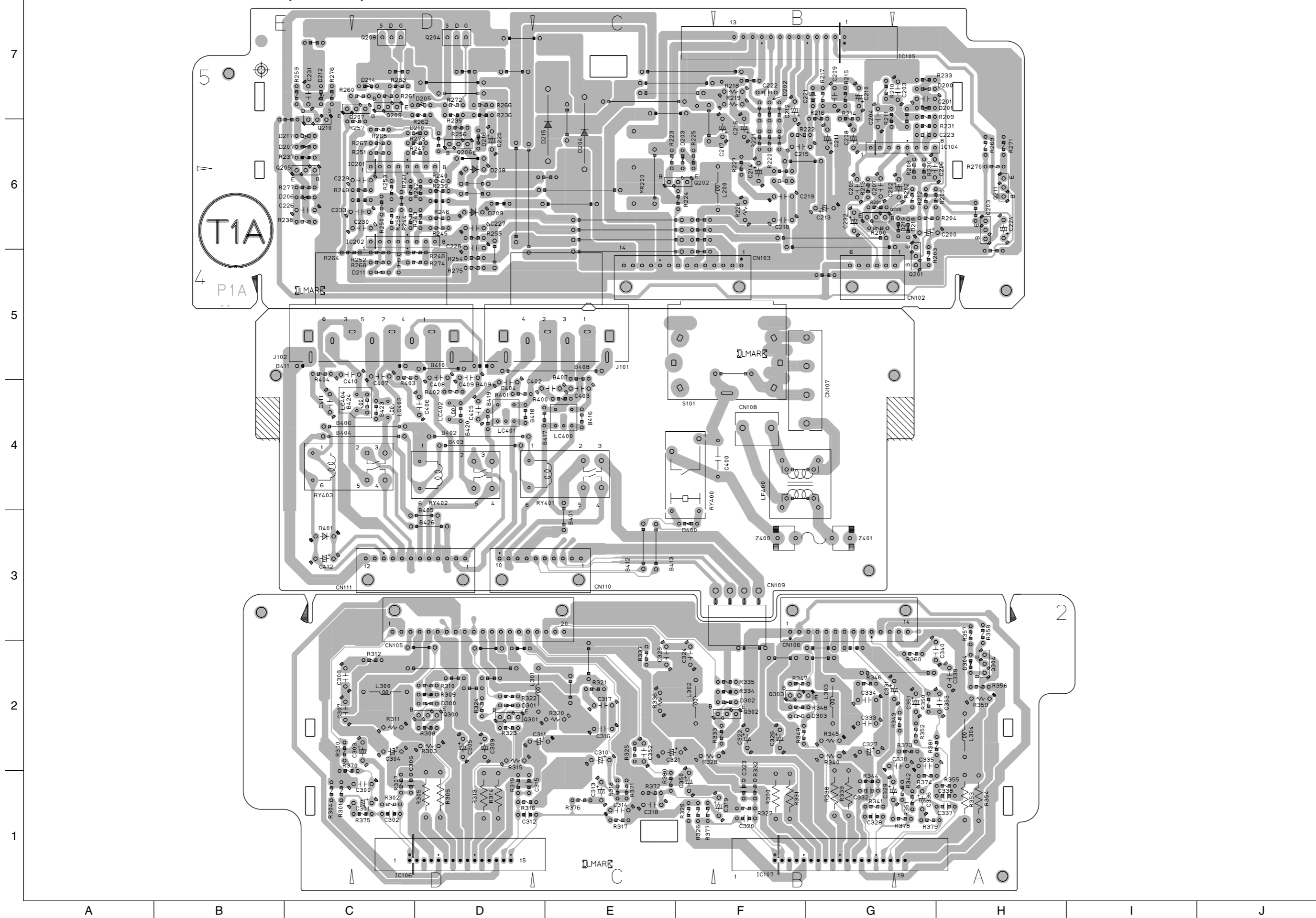
(Bottom view)



7
6
5
4
3
2
1

A B C D E F G H I J

■ Powered subwoofer board (SP-PWA9) 1/2



■ Powered subwoofer board (SP-PWA9) 2/2

