

JVC

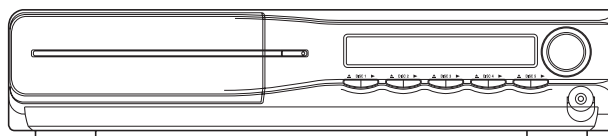
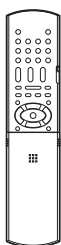
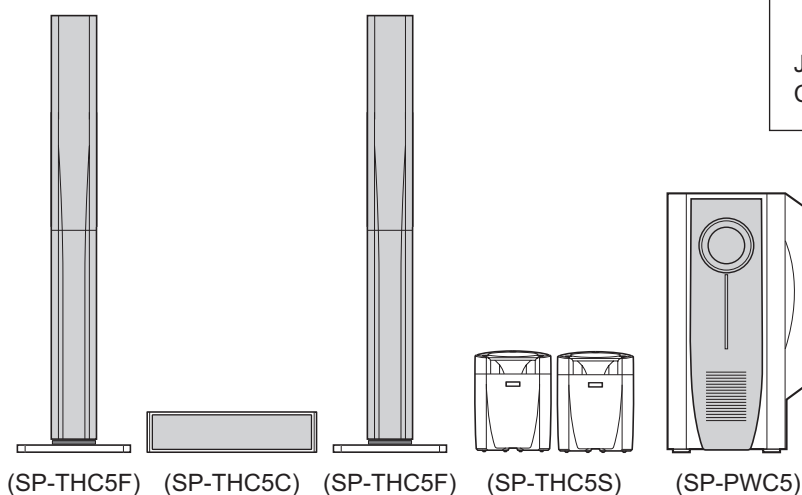
SCHEMATIC DIAGRAMS

DVD DIGITAL THEATER SYSTEM

TH-C5

CD-ROM No.SML200504

TH-C5	
Area suffix	
J -----	U.S.A.
C -----	Canada



(XV-THC5)



Contents

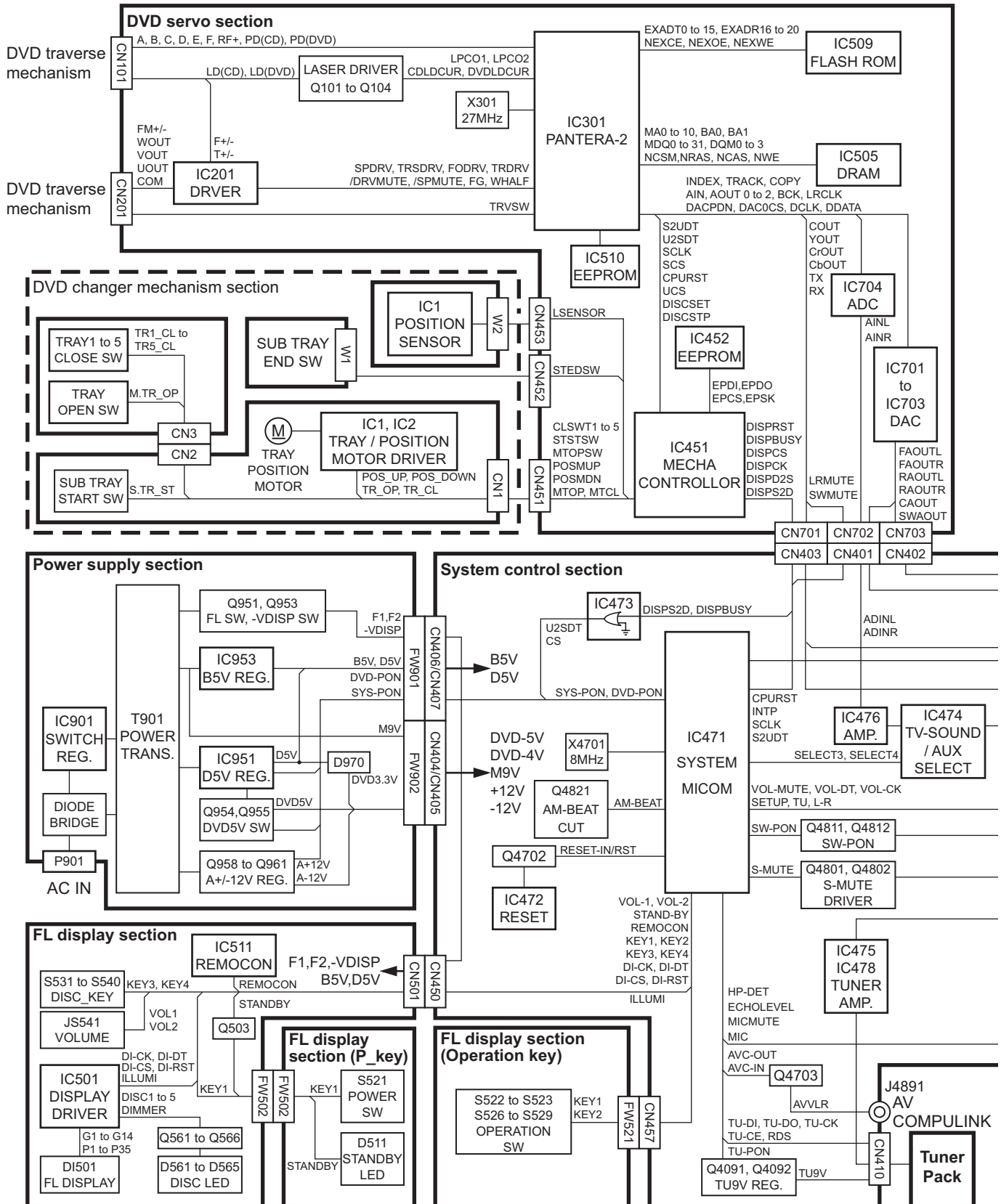
Block diagram	2-1
Standard schematic diagrams	2-3
Printed circuit boards	2-23 to 32

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (⊣) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.

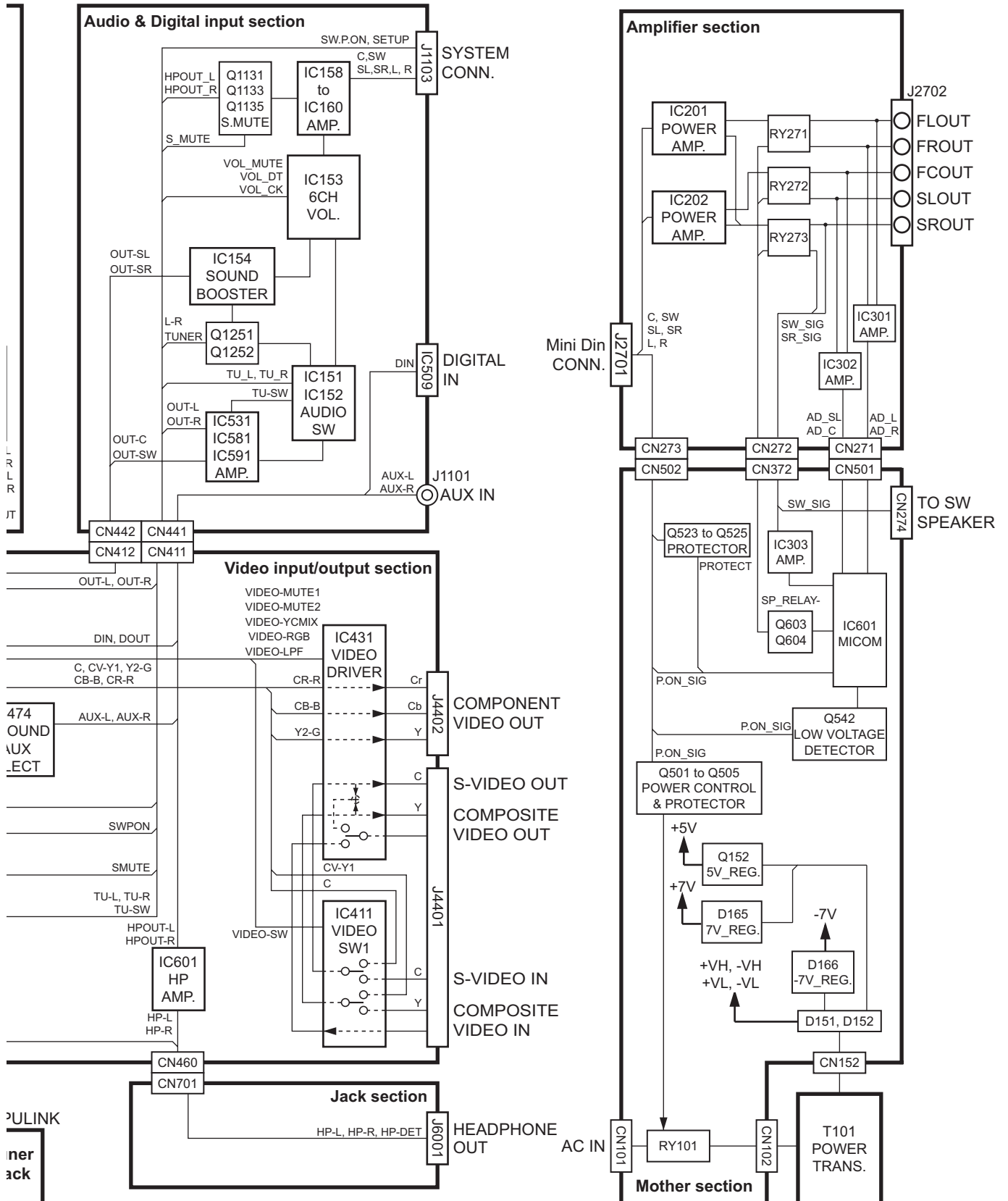
< MEMO >

Block diagram

<Main body section>



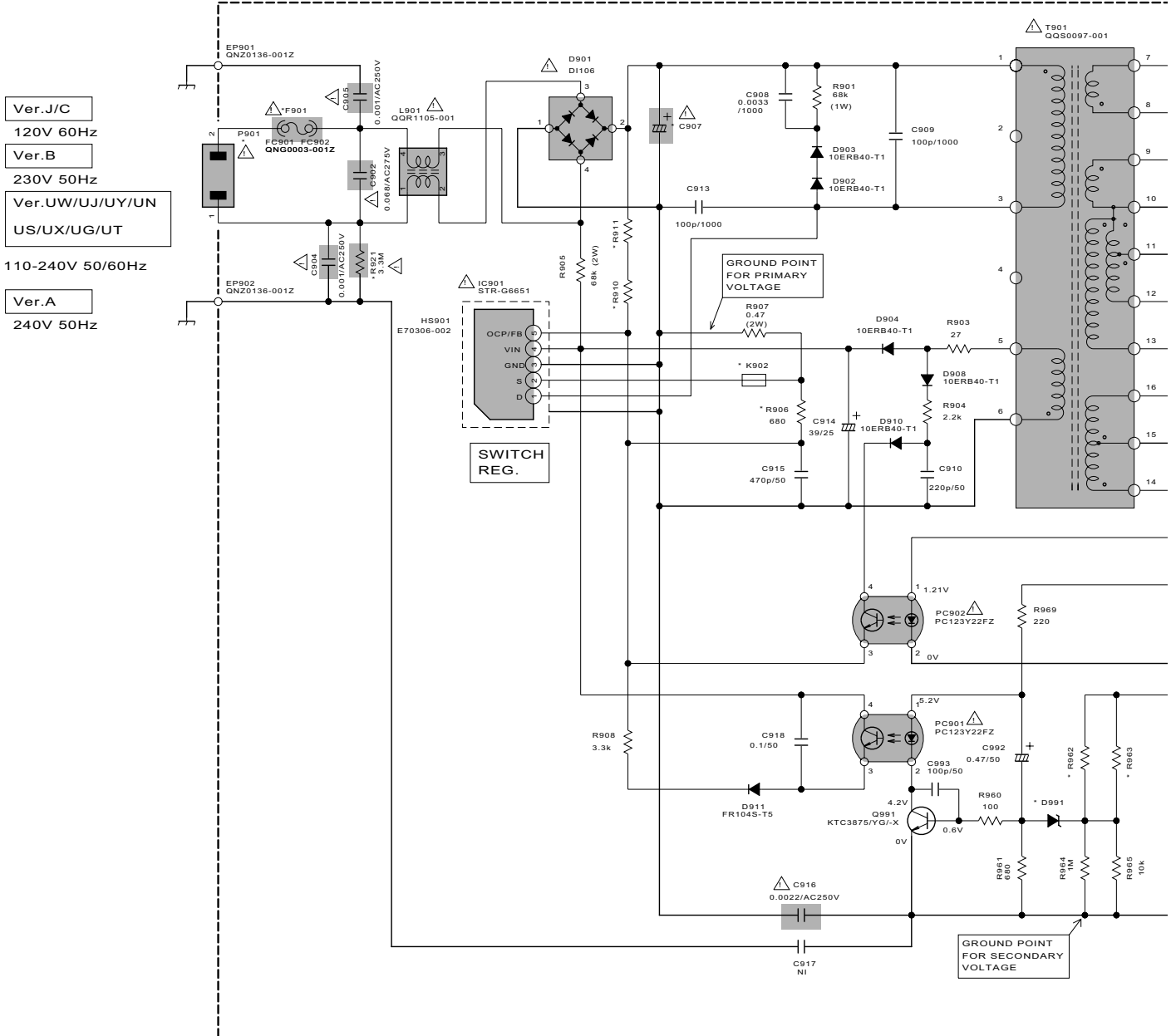
<Subwoofer section>



Standard schematic diagrams

<Main body section>

■ Power supply section



Ver.J/C

120V 60Hz

Ver.B

230V 50Hz

Ver.UW/UJ/UY/UN
US/UX/UG/UT

110-240V 50/60Hz

Ver.A

240V 50Hz

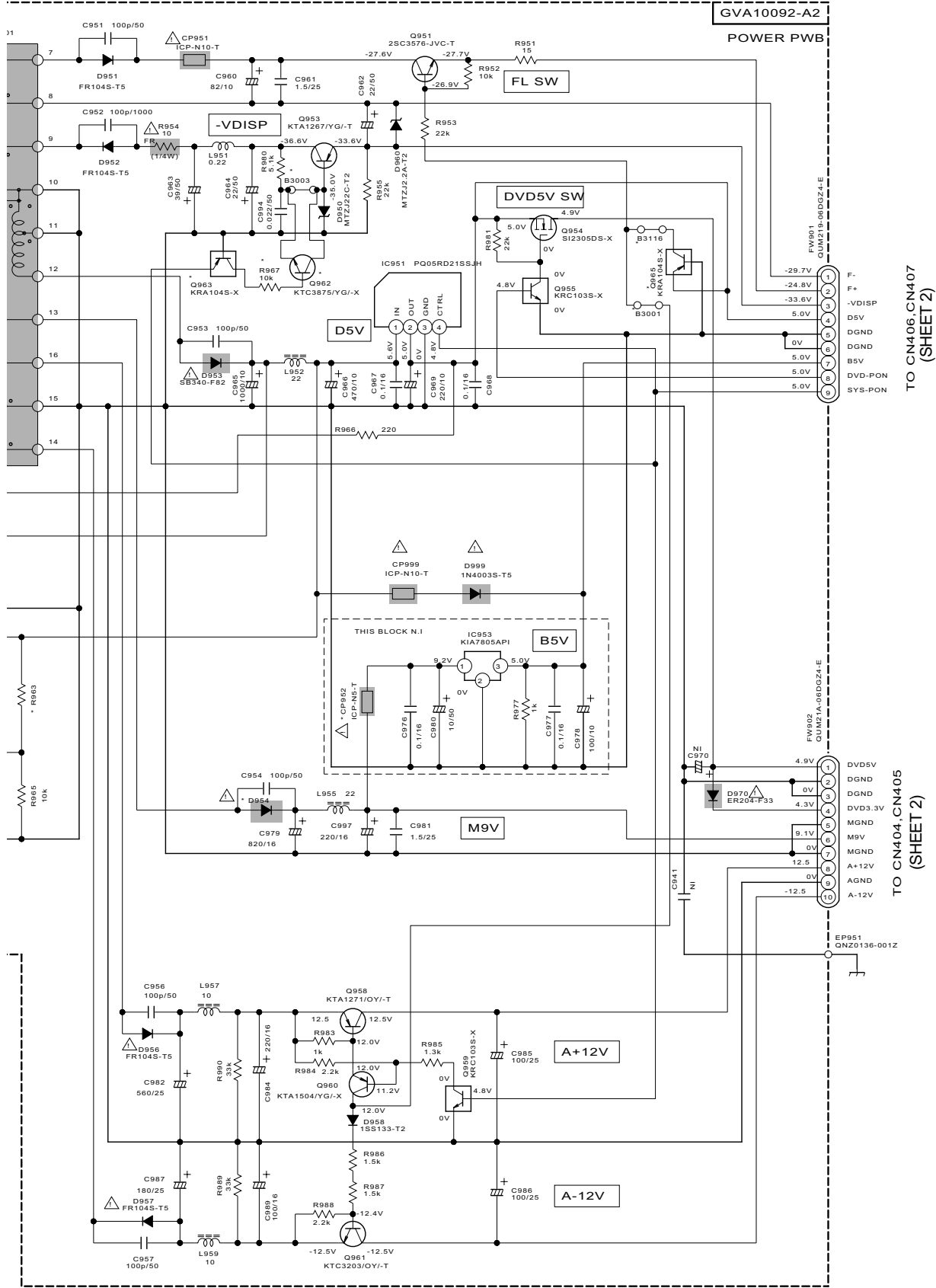
Ver.	ADDRESS	D	J/C	B	UY/UW/UJ/A US/UN/UX/UG/UT
*F901	(A-3)	QMF51U1-1R6-J8 (1.6A/125V)	QMF51U1-1R6-J8 (1.6A/125V)	QMF51W2-1R6-J8 (T1.6AL)	QMF51W2-1R6-J8 (T1.6AL)
*R962	(E-7)	1M	1M	NONE	NONE
*R963	(E-8)	100	100	180	180
*D991	(F-7)	MTZJ5.1C-T2	MTZJ5.1C-T2	MTZJ5.1B-T2	MTZJ5.1B-T2
*K902	(C-5)	QQR0779-001Z	QQR0779-001Z	0 (B3199)	0 (B3199)
*R921	(B-3)	NONE	3.3M	NONE	NONE
*P901	(B-2)	QNC0081-001	QNC0082-001	QNC0081-001	QNC0081-001
*R910 *R911	(B-5)	750k	750k	470k	470k
*CP952	(F-10)	0 (B3198)	ICP-N5-T	ICP-N5-T	ICP-N5-T

Ver.	ADDRESS	D	J/C	B	UY/UW/UJ/A US/UN/UX/UG/UT
*C907	(B-5)	QETM2DM-157 (150/200)	QETM2DM-157 (150/200)	QETM2GM-886 (68/400)	QETM2GM-107 (100/400)
*D954	(F-9)	FR104S-T6	10ERB40-T1	FR104S-T5	FR104S-T5
*B3003	(B-10)		SHORT	OPEN	SHORT

VERSION CODES
J : U.S.A.
C : CANADA
B : GREAT BRITAIN
UW : BRAZIL/MEXICO/PERU
UY : ARGENTINE
UJ : USA MILITARY BASE
A : AUSTRALIA
US : SINGAPORE
UG : TURKEY/EGYPT/SOUTH AFRICA
UN : INDONESIA
UX : SAUDI ARABIA
UT : TAIWAN

*
FOR POWER CONSUMPTION C/M:
Q962, Q963, R967 USED FOR B VERSION ONLY
OTHERS USE B3003
Q965 & B3116 USED FOR B VERSION ONLY
OTHERS USE B3001

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

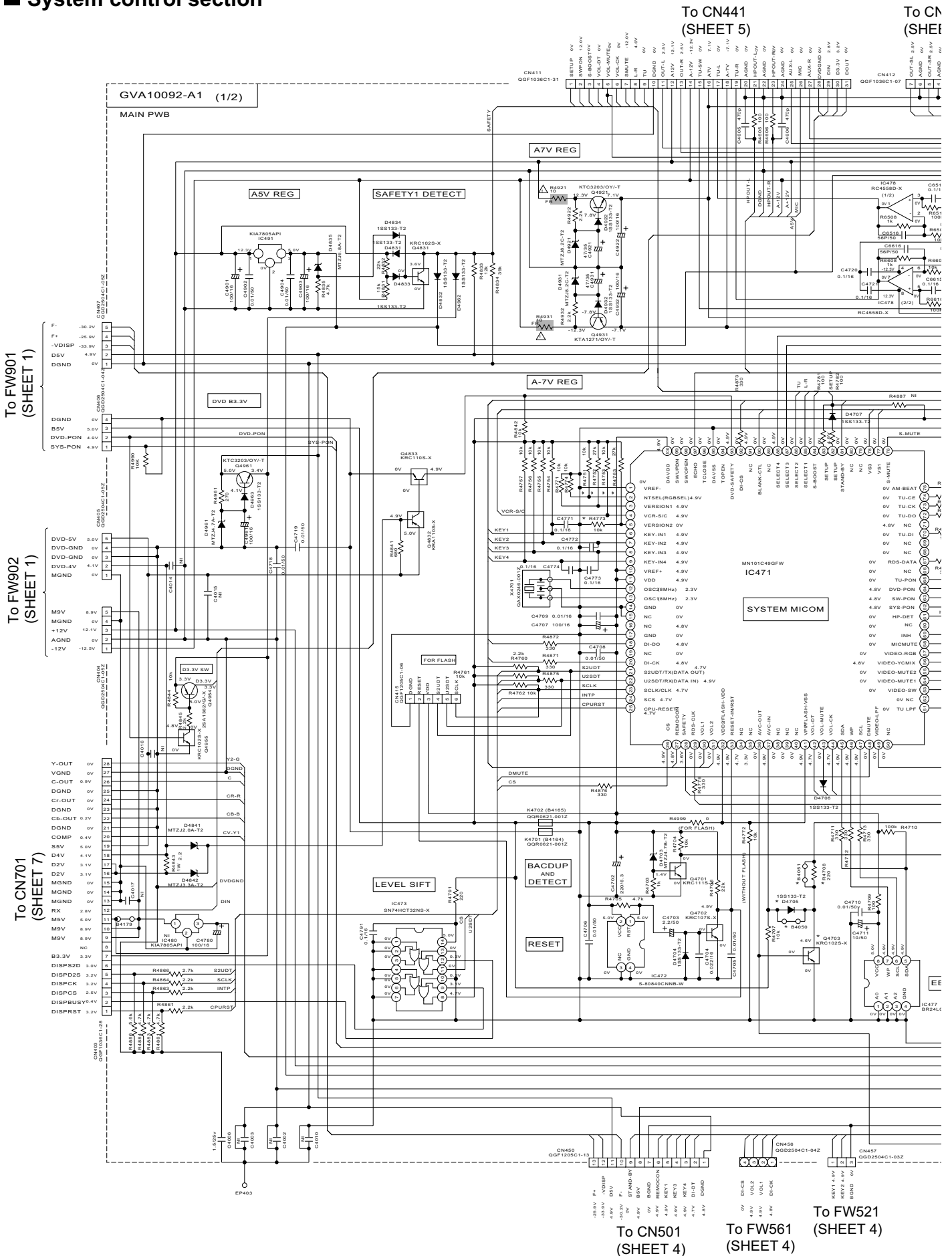


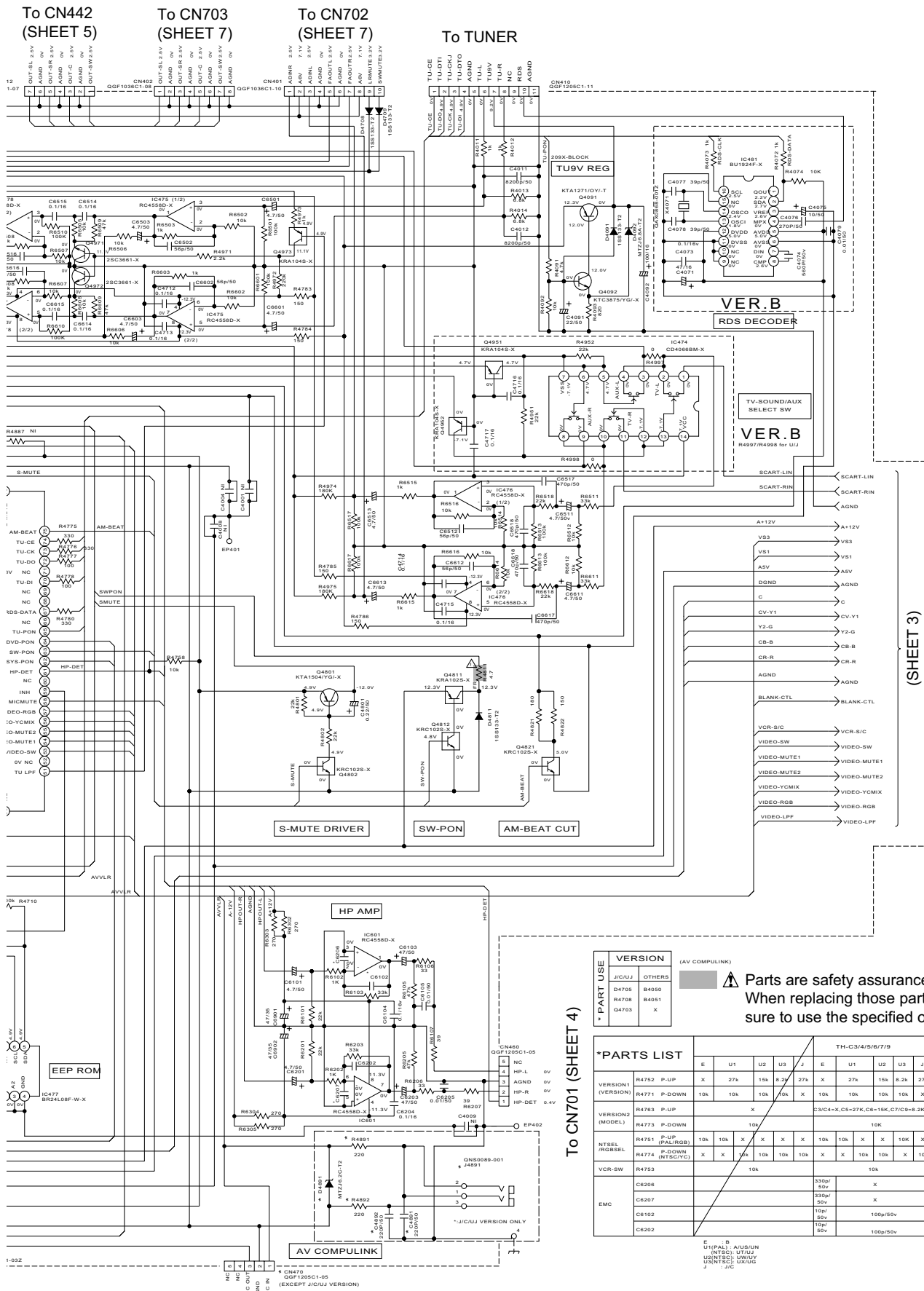
GVA10092-A2
POWER PWB

TO CN406, CN407
(SHEET 2)

TO CN404, CN405
(SHEET 2)

System control section





To CN442 (SHEET 5)

To CN703 (SHEET 7)

To CN702 (SHEET 7)

To TUNER

(SHEET 3)

To CN701 (SHEET 4)

PART USE	VERSION (AV COMPLINK)	
	J/C/UJ	OTHERS
D4705	B4050	
R4708	B4051	
Q4705	X	

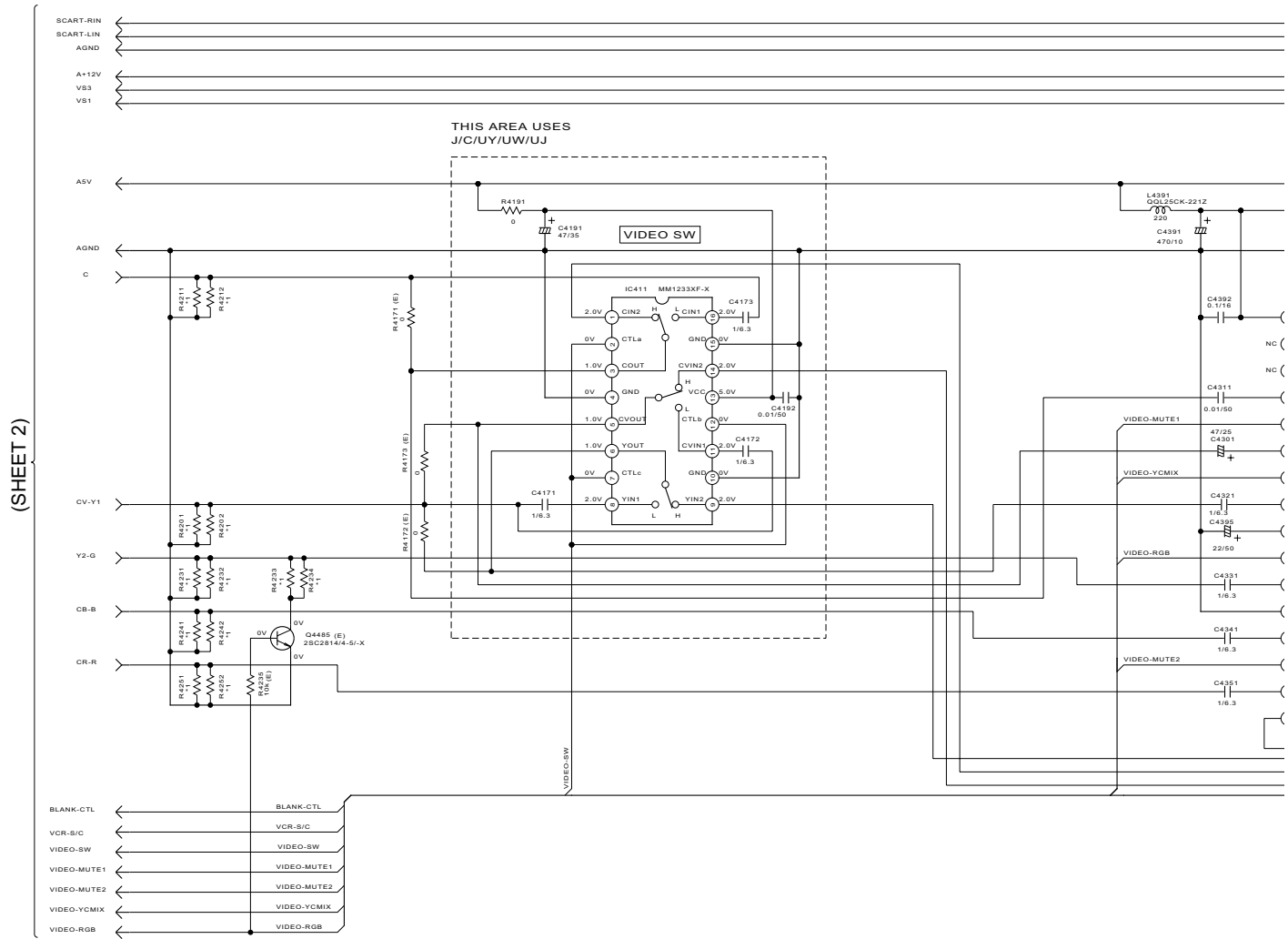
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

*PARTS LIST		TH-C34/5/6/7/9									
VERSION1 (VERSION)	VERSION2 (MODEL)	E	U1	U2	U3	J	E	U1	U2	U3	J
R4752 P-UP	R4771 P-DOWN	X	27k	15k	8.2k	27k	X	27k	15k	8.2k	27k
R4763 P-UP	R4773 P-DOWN										
R4751 P-UP (PAL/RGB)	R4774 P-DOWN (NTSC/YC)	10k	10k	X	X	X	10k	10k	X	X	10k
R4774 P-DOWN (NTSC/YC)		X	X	10k	10k	10k	X	X	10k	10k	X
R4753				10k						10k	
C8206									330p		X
C8207									330p		X
C8102									10p		100p/50v
C8202									10p		100p/50v

E U1(PAL) AU5/UIN
 B U1(PAL) AU5/UIN
 U1(PAL) AU5/UIN
 U2(NTSC) UW/UUY
 U2(NTSC) UW/UUY
 J J/C

Video input / output section

GVA10092-A1



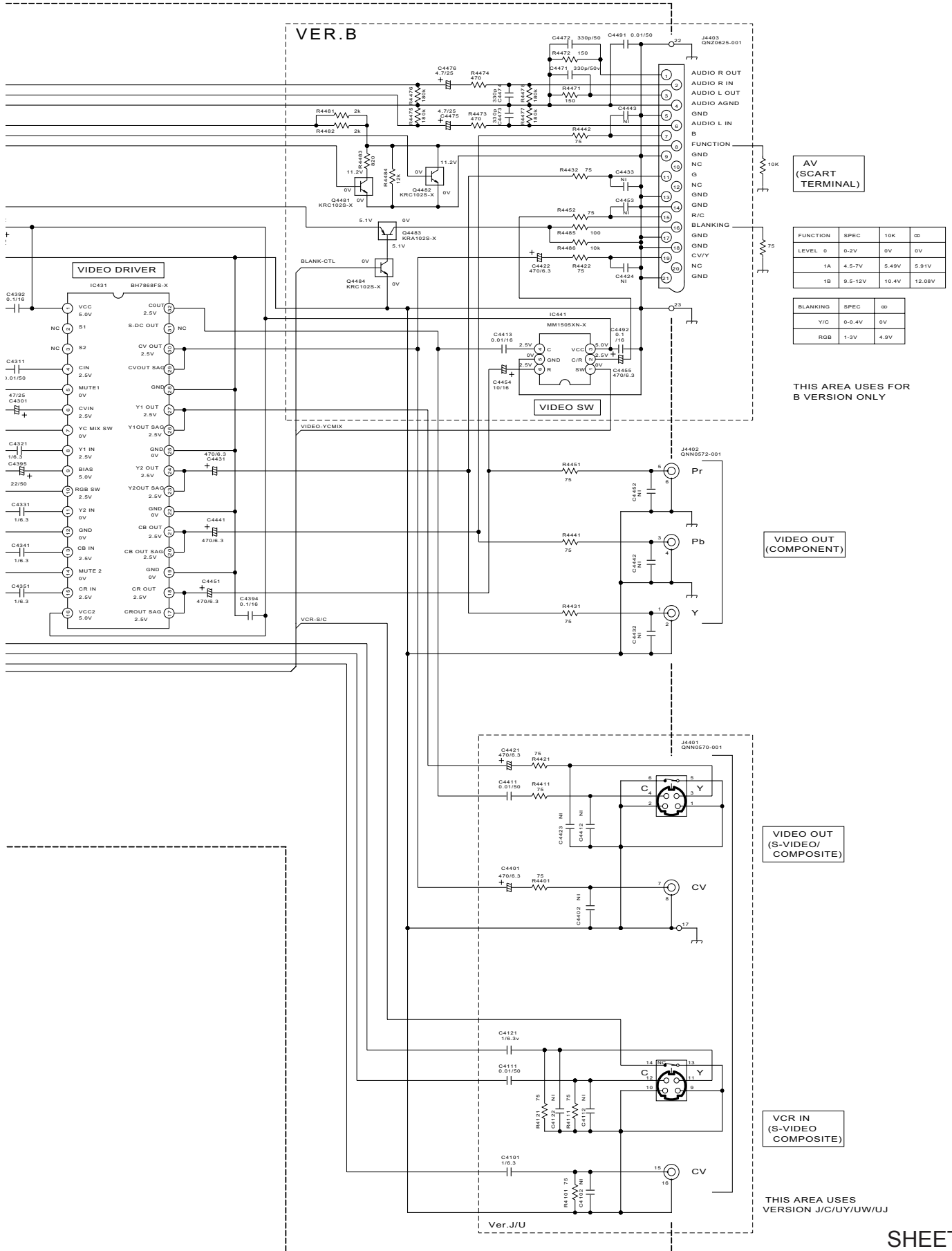
*1 PARTS LIST

		B	U/J
CV-Y1	R4201	560	510
	R4202	330	330
C	R4211	240	560
	R4212	X	560
Y2-G	R4231	560	510
	R4232	330	330
	R4233	820	X
	R4234	220	X
Cb-B	R4241	470	560
	R4242	120	120
Cr-R	R4251	470	560
	R4252	120	120

U : U/J/UW/UY/US/UN/UX/UG/UT/UA

J : J/C

VER. B



AV (SCART TERMINAL)

FUNCTION	SPEC	10K	∞
LEVEL 0	0-2V	0V	0V
1A	4.5-7V	5.49V	5.91V
1B	9.5-12V	10.4V	12.08V

BLANKING	SPEC	∞
Y/C	0-0.4V	0V
RGB	1-3V	4.0V

THIS AREA USES FOR B VERSION ONLY

VIDEO OUT (COMPONENT)

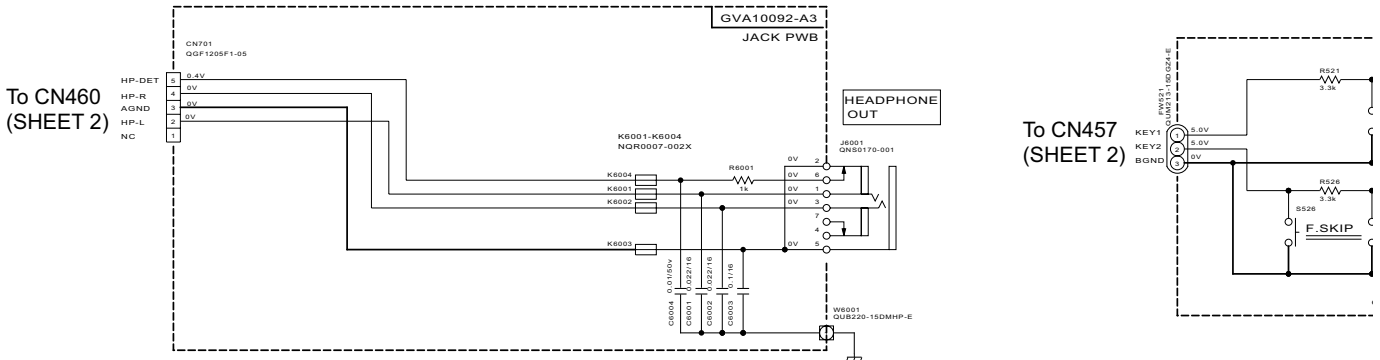
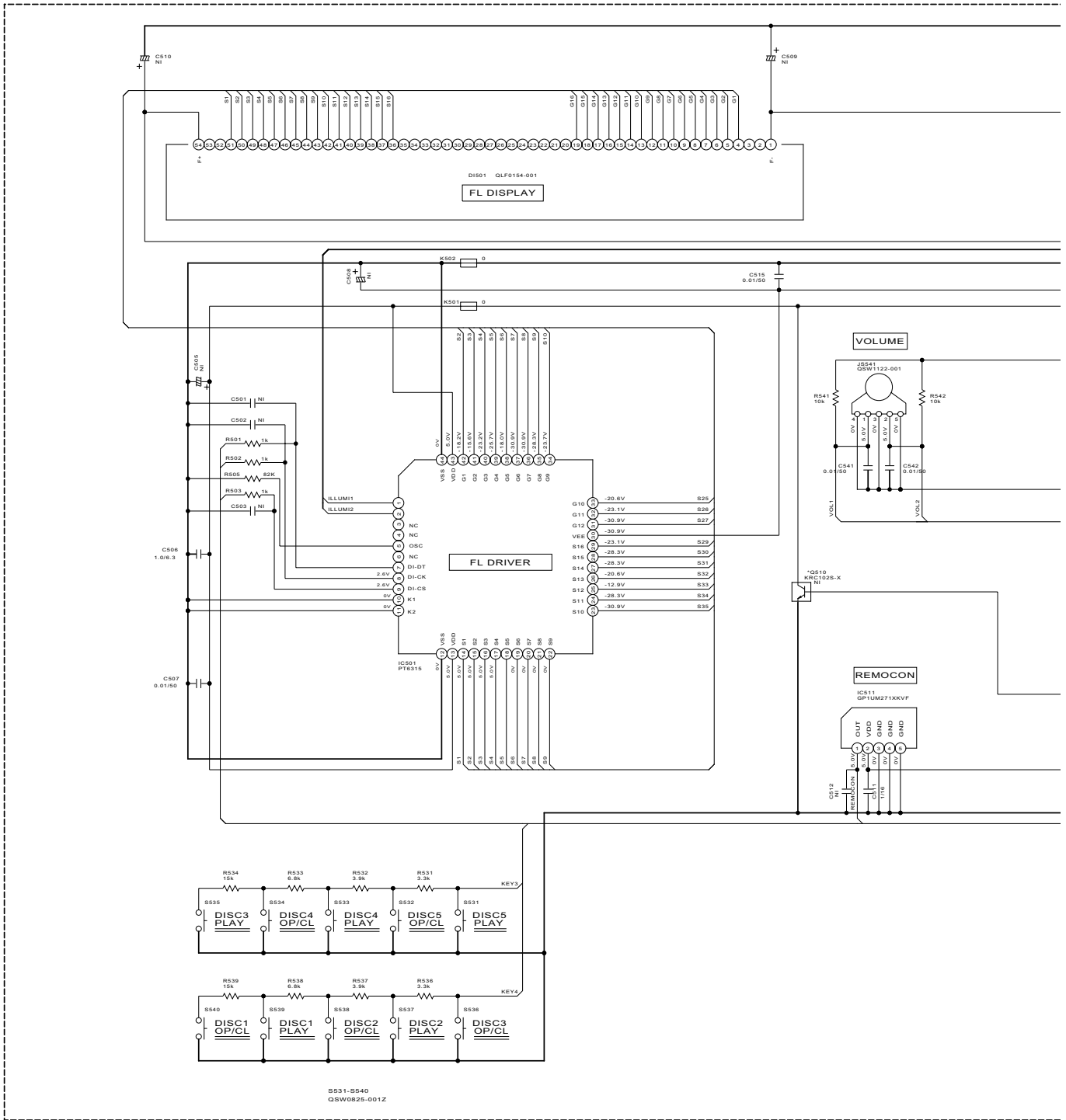
VIDEO OUT (S-VIDEO/ COMPOSITE)

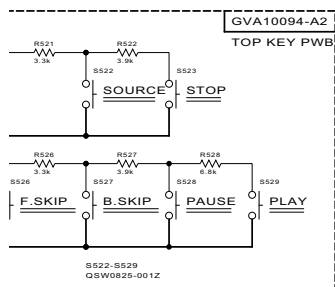
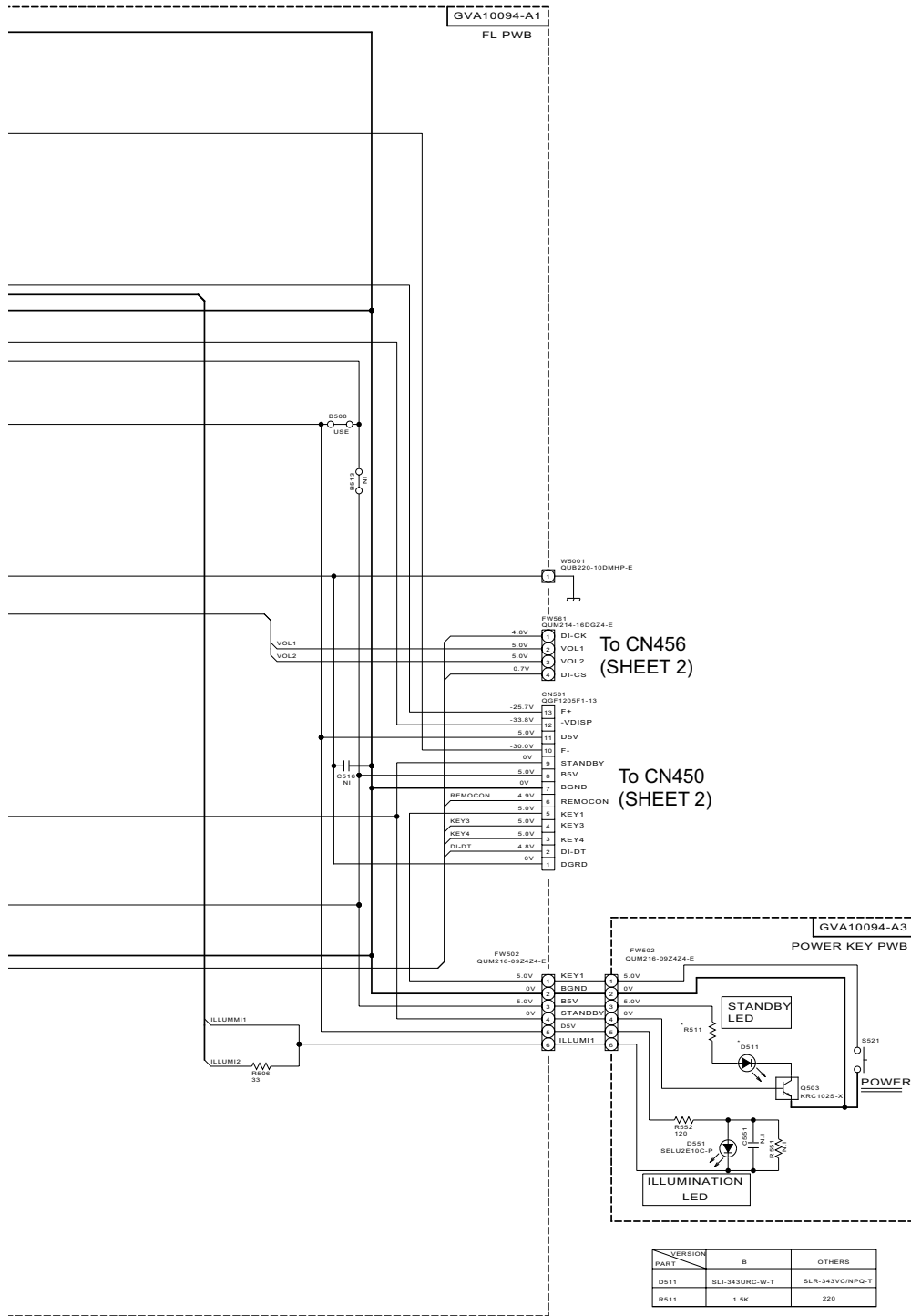
VCR IN (S-VIDEO COMPOSITE)

THIS AREA USES VERSION J/C/U/Y/UW/UJ

Ver. J/U

FL display section

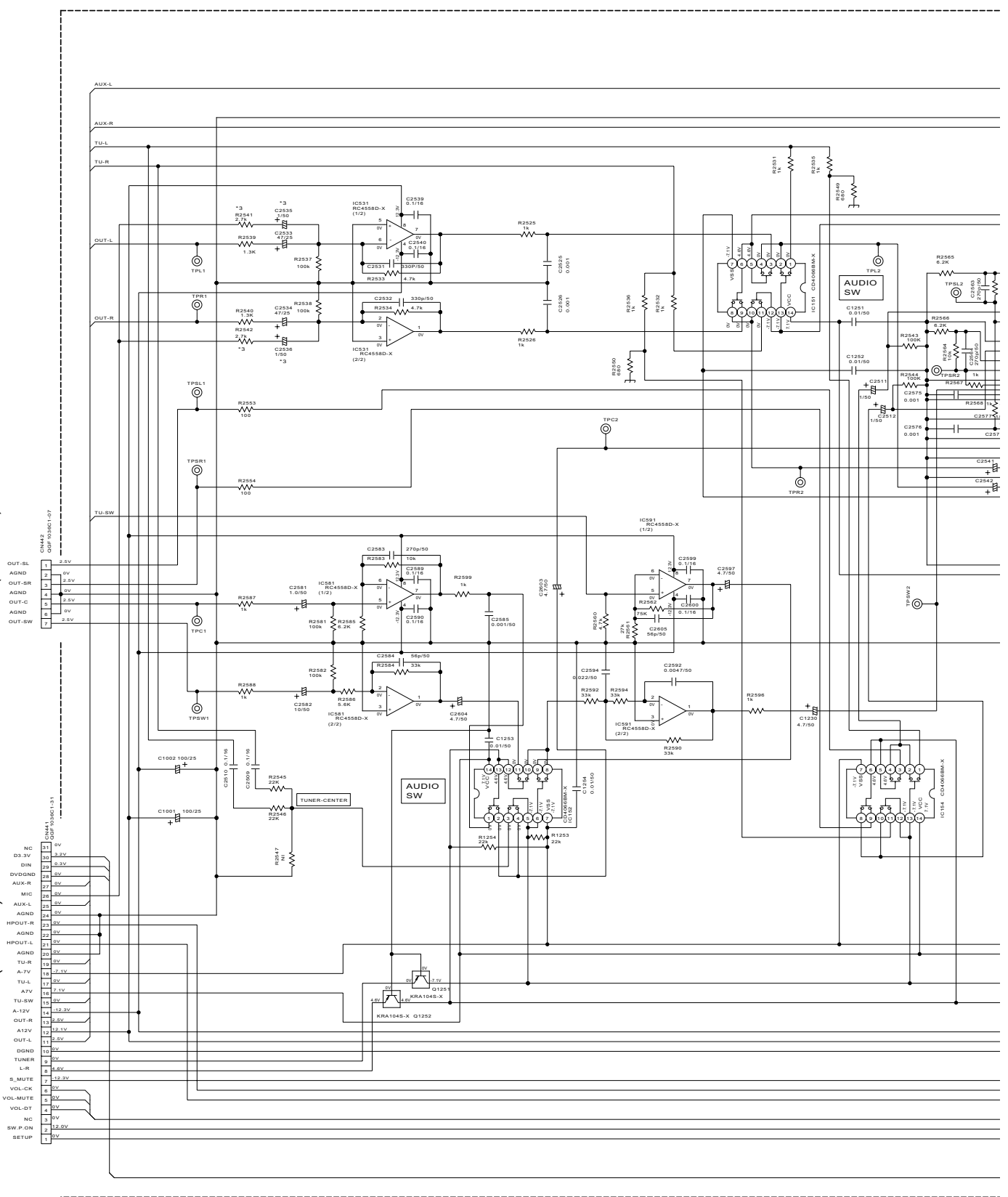




Audio & Digital input section

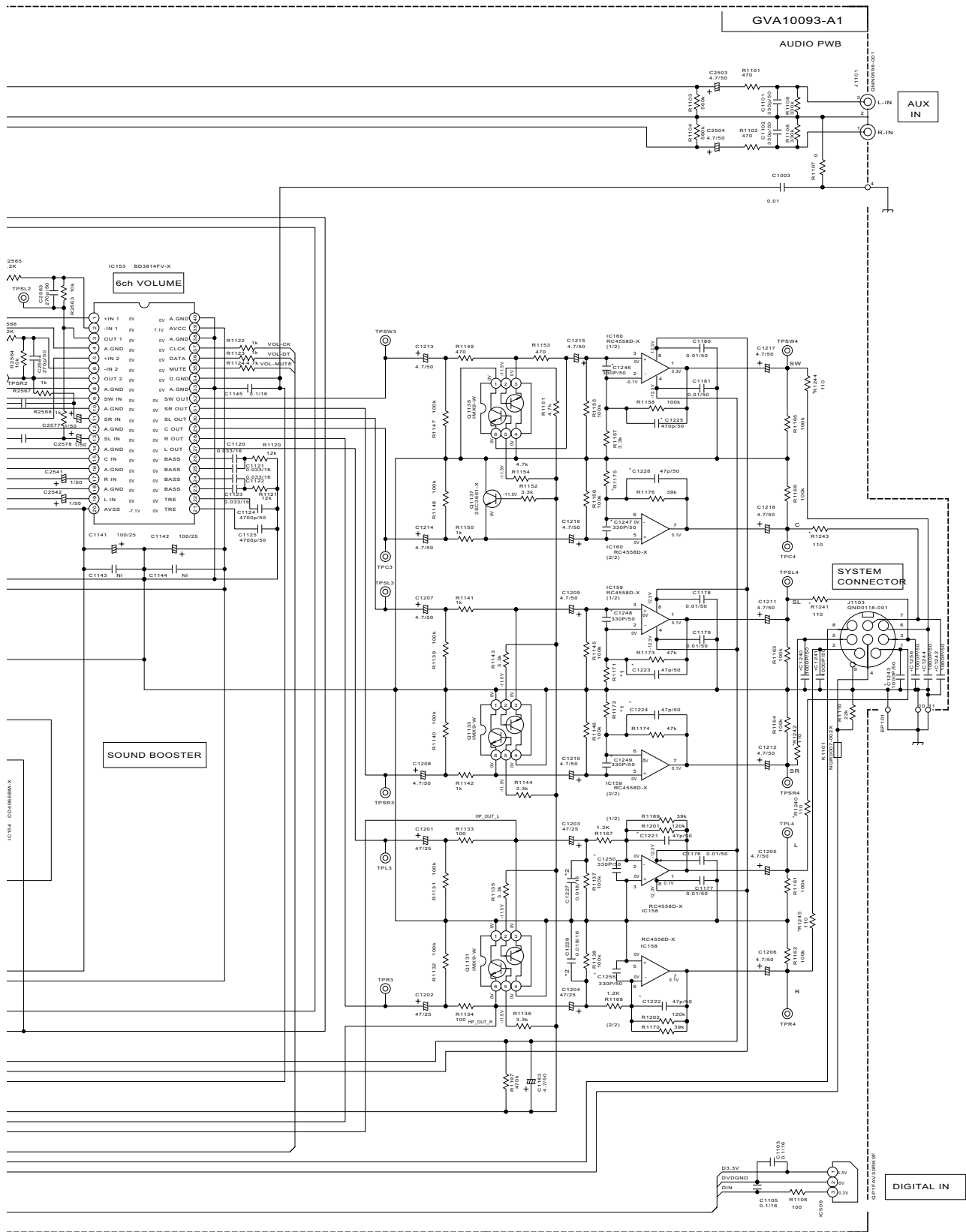
To CN412 (SHEET 2)

To CN411 (SHEET 2)



*1 VERSION	
XV-THC3/4	
XV-THC5	
XV-THC6	
XV-THC7/9	

*3 USE U seri. With MIC.

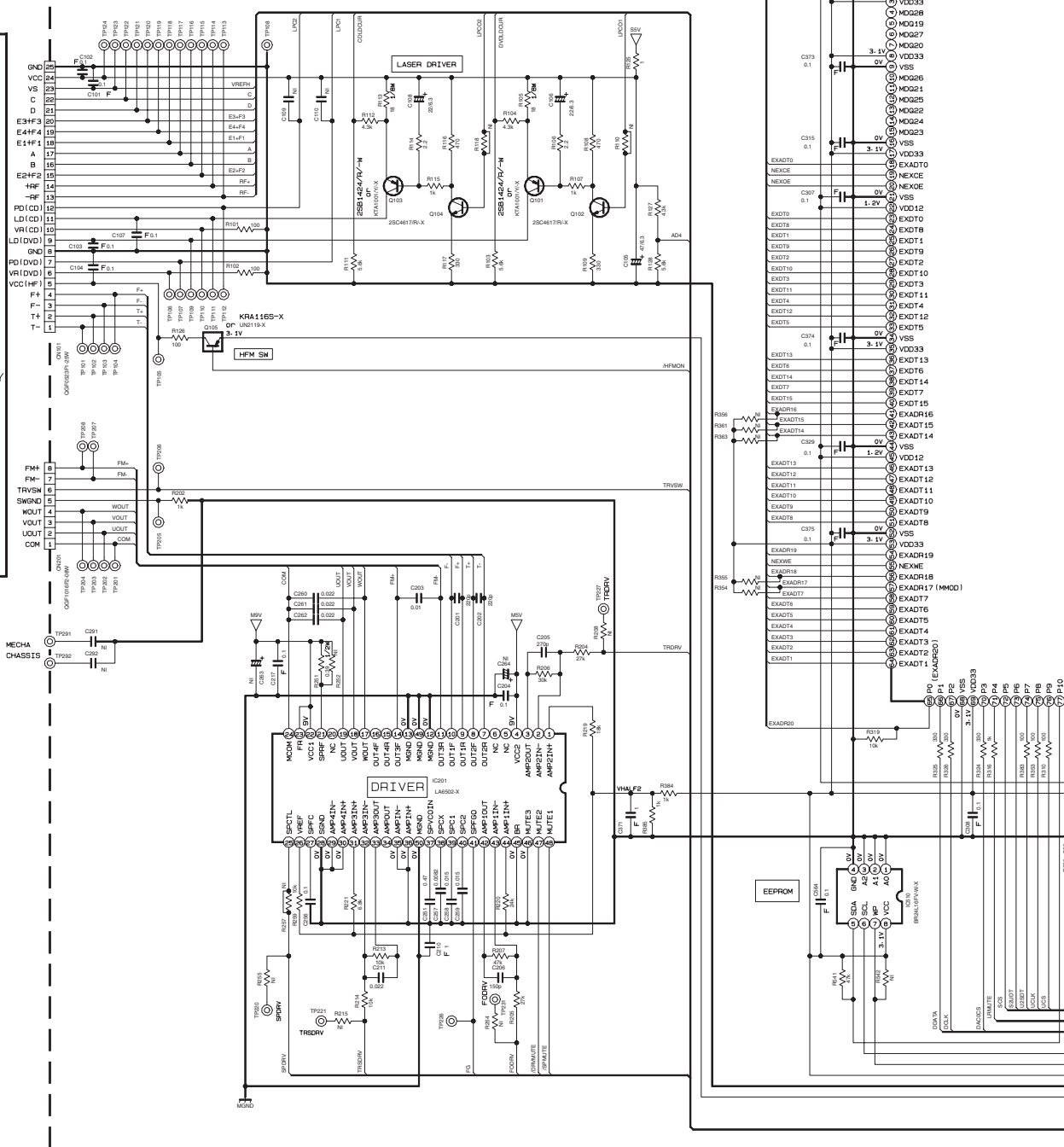
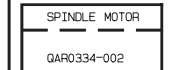
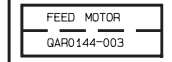
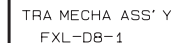
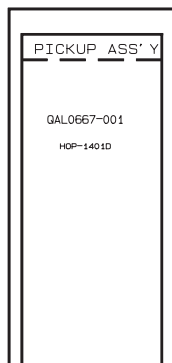


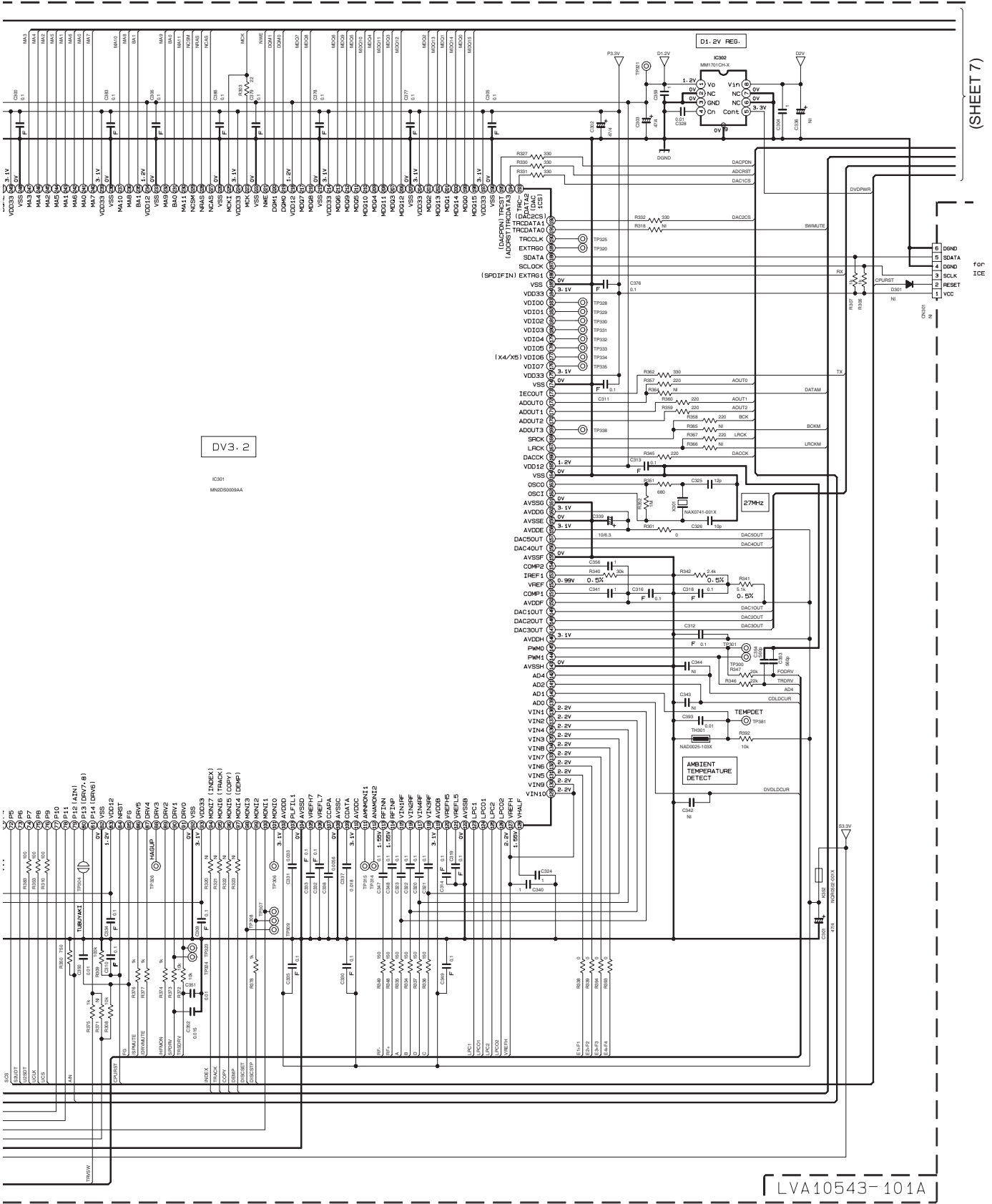
*** EMC C/M**

SION	R1171	R1175
/4	1.5K	2K
	2K	1.8K
	2K	2K
/9	1.8K	2K

PART	B	OTHERS
C1246, C1248, C1247	330p	NONE
C1249, C1250, C1255	100 ohm	0 ohm
R1240, R1241, R1242	100 ohm	0 ohm
R1243, R1244, R1245	100ohm	NONE
C1240, C1241, C1242	1000p	NONE
C1243, C1244, C1246		
C1221, C1222, C1223		
C1224, C1225, C1226	NONE	USE

DVD servo section (1/2)





(SHEET 7)

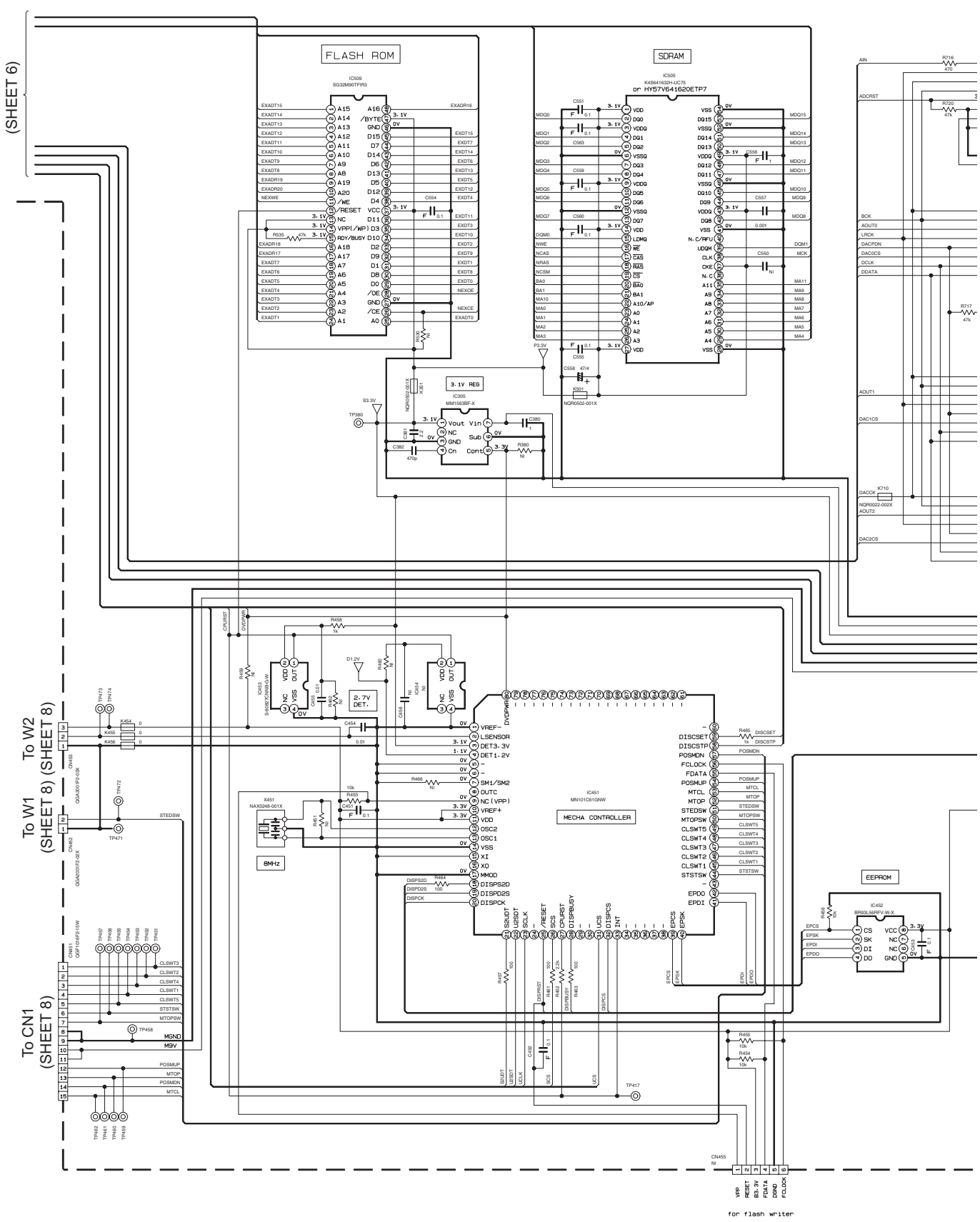
DV3.2

IC901
MMS50005AA

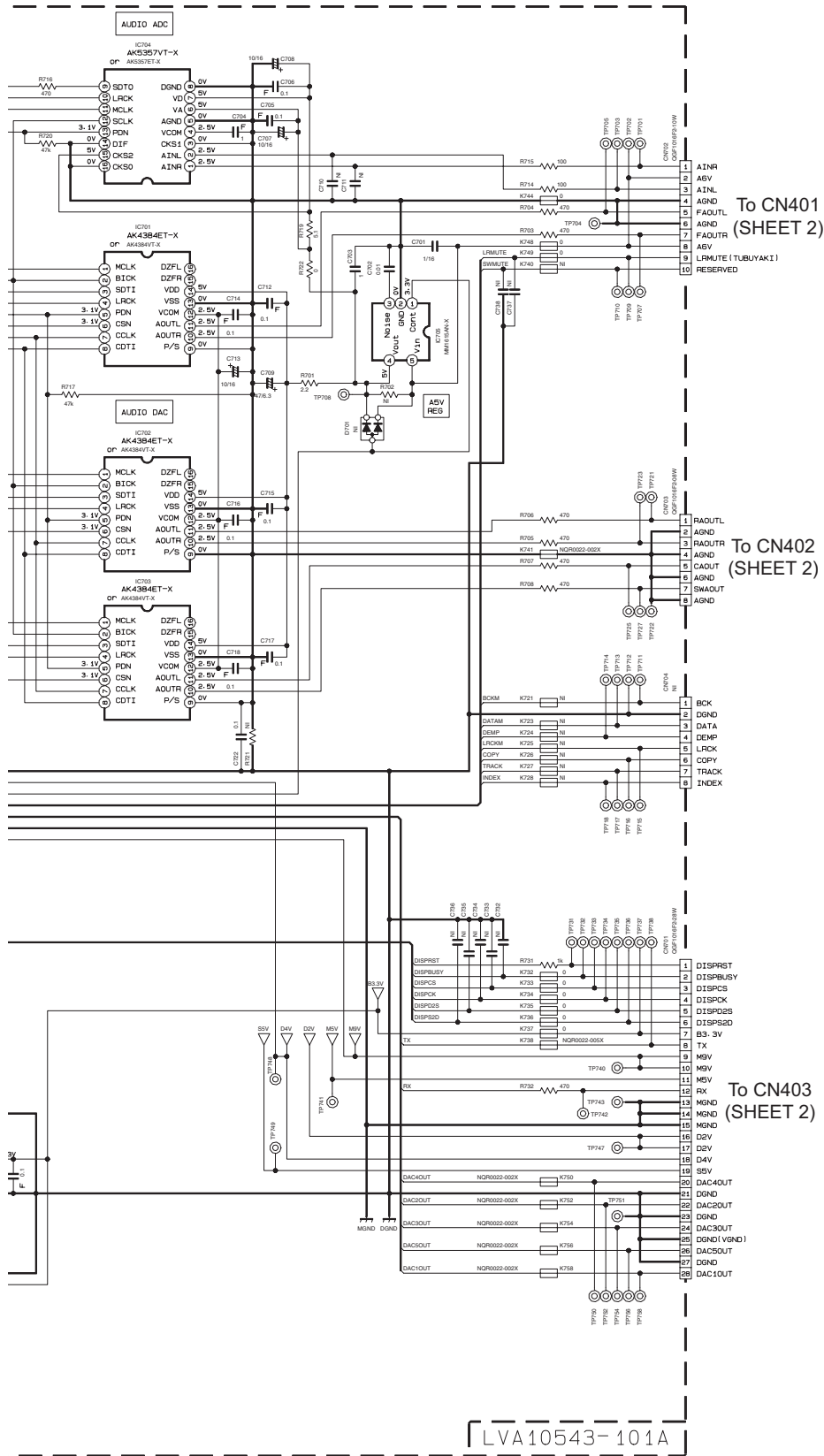
LVA10543-101A

for
ICE

DVD servo section (2/2)



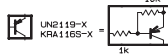
for flash writer



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION — A DVD disc in the Tray 1 and STOP mode.
2. UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR, OR 0.5% METAL GLAZE RESISTOR.
 ALL CAPACITORS ARE 50V, 25V, 16V, 10V or 6.3V CERAMIC CAPACITOR.
 ALL RESISTANCE VALUES ARE IN Ω(M|g).
 ALL CAPACITANCE VALUES ARE IN pF(p|pF).
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
 ALL INDUCTANCE VALUES ARE IN μH(m|mH).
3. NI STANDS FOR NOT INSERTED PARTS.

4. DIGITAL TRANSISTOR

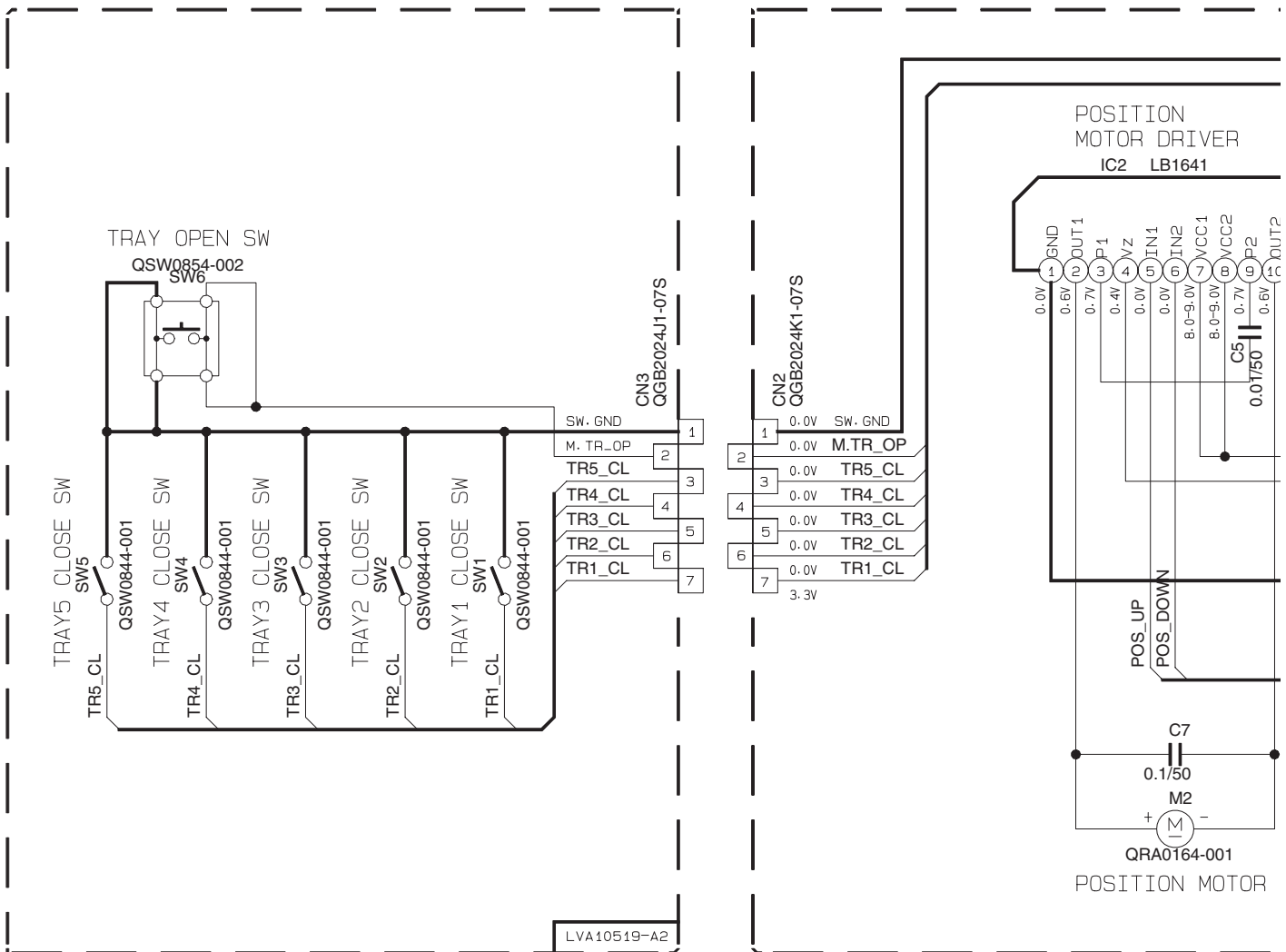


To CN401
(SHEET 2)

To CN402
(SHEET 2)

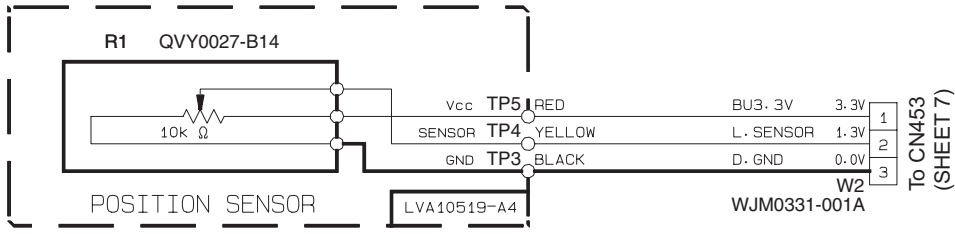
To CN403
(SHEET 2)

DVD changer mechanism section

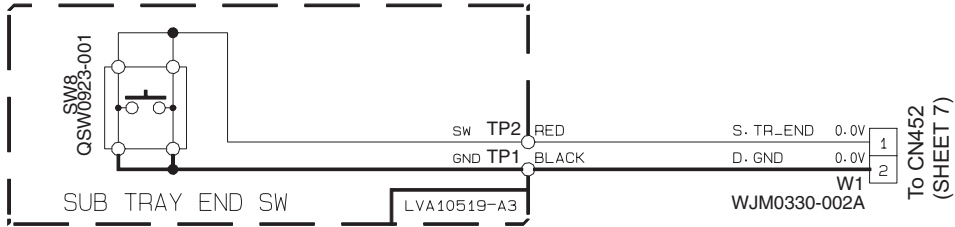


NOTES

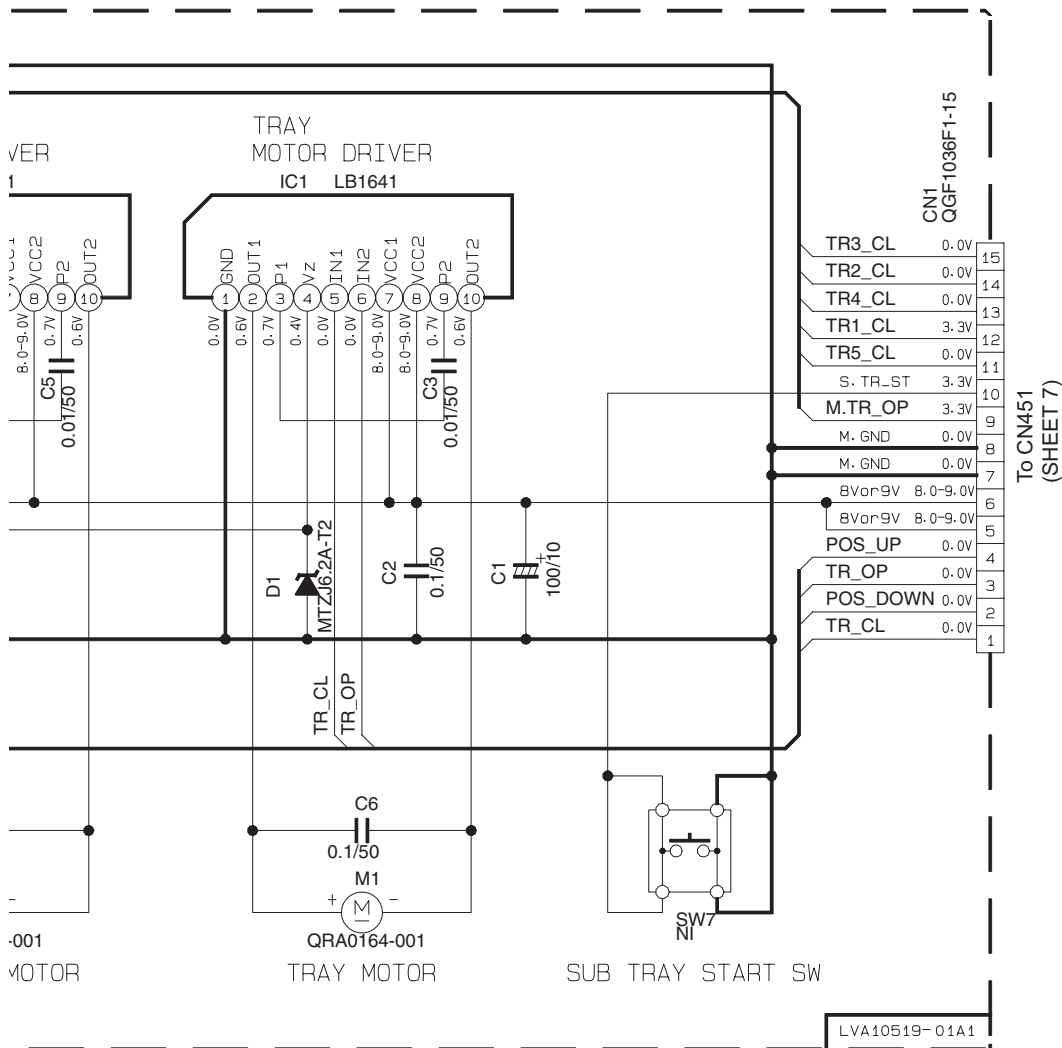
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
CONDITION: DISC1 STOP
2. UNLESS OTHERWISE SPECIFIED.
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μ F)/RATED VOLTAGE (V).
3. NI STANDS FOR NOT INSERTED PARTS.



To CN453
(SHEET 7)



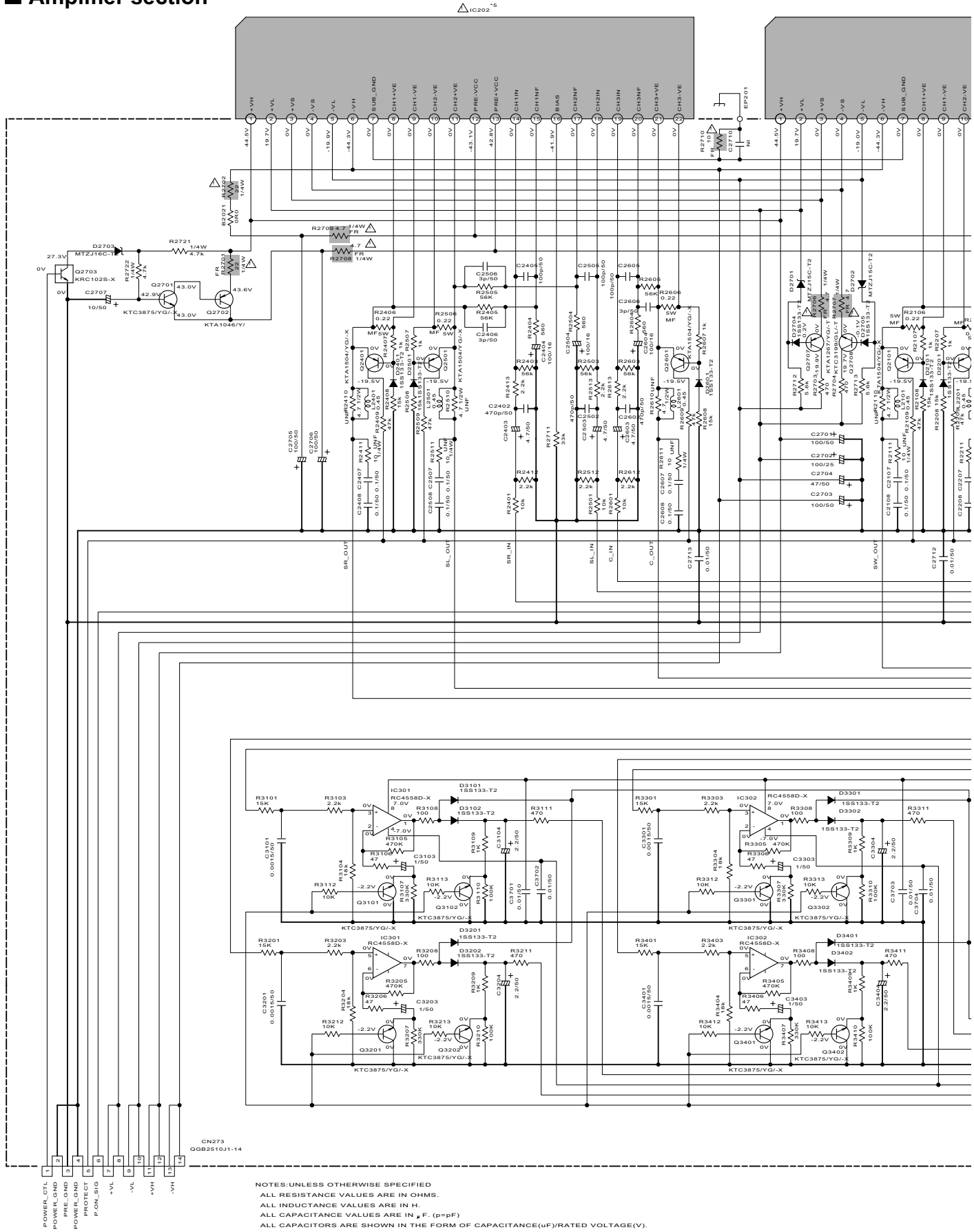
To CN452
(SHEET 7)



To CN451
(SHEET 7)

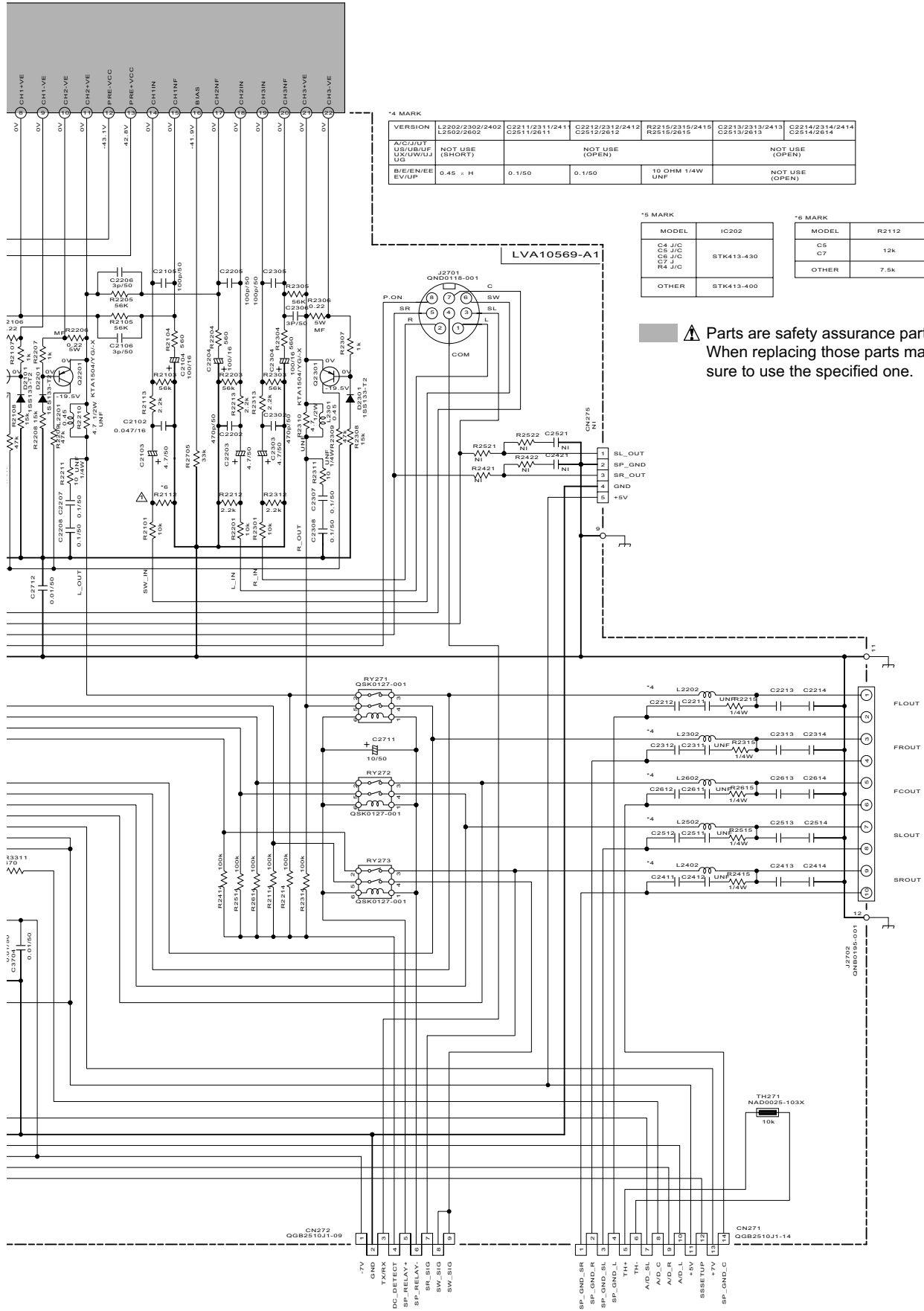
<subwoofer section>

■ Amplifier section



NOTES: UNLESS OTHERWISE SPECIFIED
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μ F. (p=pF)
 ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μ F)/RATED VOLTAGE(V).
 VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

TO CN502
 (SHEET 10)



*4 MARK

VERSION	L2202/2302/2402 L2502/2802	C2211/2311/2411 C2511/2811	C2212/2312/2412 C2512/2812	R2215/2315/2415 R2515/2815	C2213/2313/2413 C2513/2813	C2214/2314/2414 C2514/2814
A/C/JUT	NOT USE (SHORT)	NOT USE (OPEN)	NOT USE (OPEN)	NOT USE (OPEN)	NOT USE (OPEN)	NOT USE (OPEN)
U/SUB/U	0.45 × H	0.1/50	0.1/50	10 OHM 1/4W	UNF	NOT USE (OPEN)
B/E/EN/EE						
EV/UP						

*5 MARK

MODEL	IC202
C4 J/C	STK413-430
C5 J/C	STK413-430
C6 J/C	STK413-430
R4 J/C	STK413-430
OTHER	STK413-400

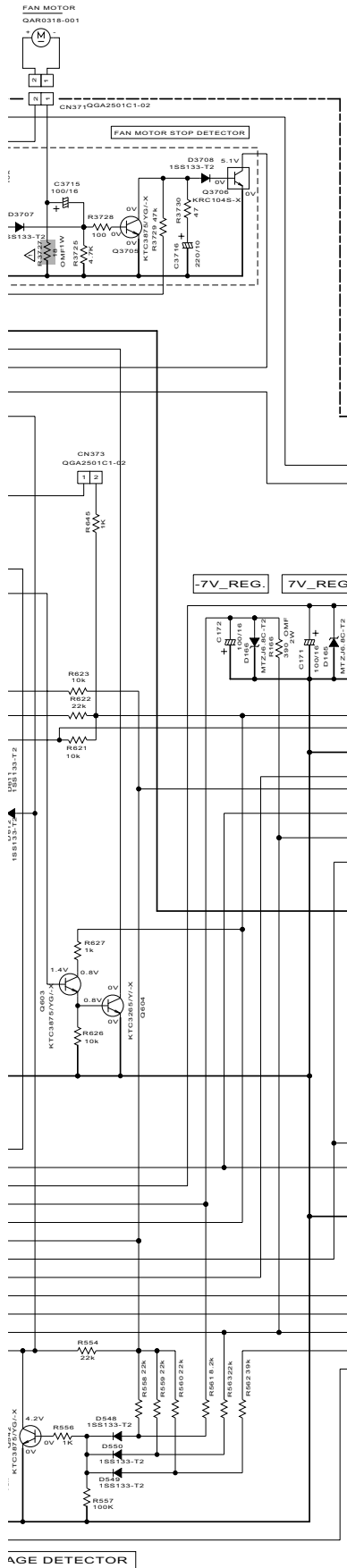
*6 MARK

MODEL	R2112
C5	12k
C7	12k
OTHER	7.5k

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

TO CN372 (SHEET 10)

TO CN501 (SHEET 10)



VERSION
 A : AUSTRALIA
 B : GREAT BRITAIN
 C : CANADA
 E : GERMANY/FRANCE/HOLLAND
 EN : SWEDEN/NORWAY/FINLAND/DENMARK
 EE : RUSSIA
 EV : EAST EUROPE
 J : U.S.A
 UT : TAIWAN

US : SINGAPOLE
 UB : HONG KONG
 UP : KOREA
 UF : CHINA
 UX : SAUDI ARABIA
 UW : BRAZIL/MEXICO/PERU
 UJ : USA MILITARY BASE
 UG : TURKY/EGYPT/SOUTH AFRICA

NOTES: UNLESS OTHERWISE SPECIFIED
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN #F. (#pF)
 ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
 VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

*2 MARK

MODEL	D561	D562
CS J/C	NO USE	SLR-342MC-T12
OTHER	SLR-342MC-T12	NO USE

*3 MARK

MODEL	C161/C162	R602	D164
CS J/C			
CS J/C	4700/50	3.3k	MTZJ6.2B-T2
CS J/C			
CS J/C			
UT/US/UJ	3300/50	3.9k	MTZJ6.2B-T2
UW/UJ/UG/UY			
OTHER	3300/50	2.7k	MTZJ6.2A-T2

*4 MARK

MODEL	D3703
UT/US/UJ	MTZJ12C-T2
UW/UJ/UG/UY	
OTHER	MTZJ11C-T2

LVA10569-A2

*1 MARK

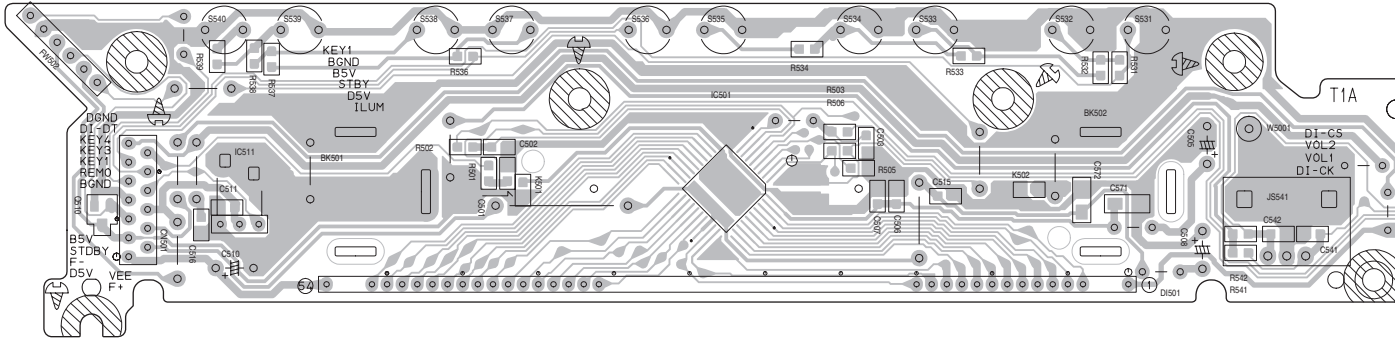
VERSION	F101	F102	F153/F154
J/C	GGT0482-001	BA-125V	10A-125V
E/E/EE/EEV	GGT0482-002	T3.15AL	TBAL
UT/US/UJ	GGT0482-003	T6.3AL	T3.15AL TBAL
UW/UJ/UG			

TO CN273 (SHEET 9)

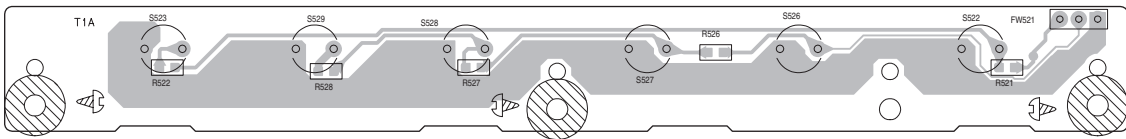
▲ Parts are safety assurance parts.
 When replacing those parts make sure to use the specified one.

■ Front board

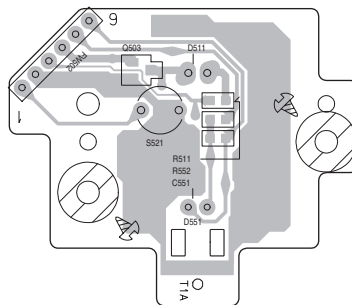
(Front board)



(Operation board)

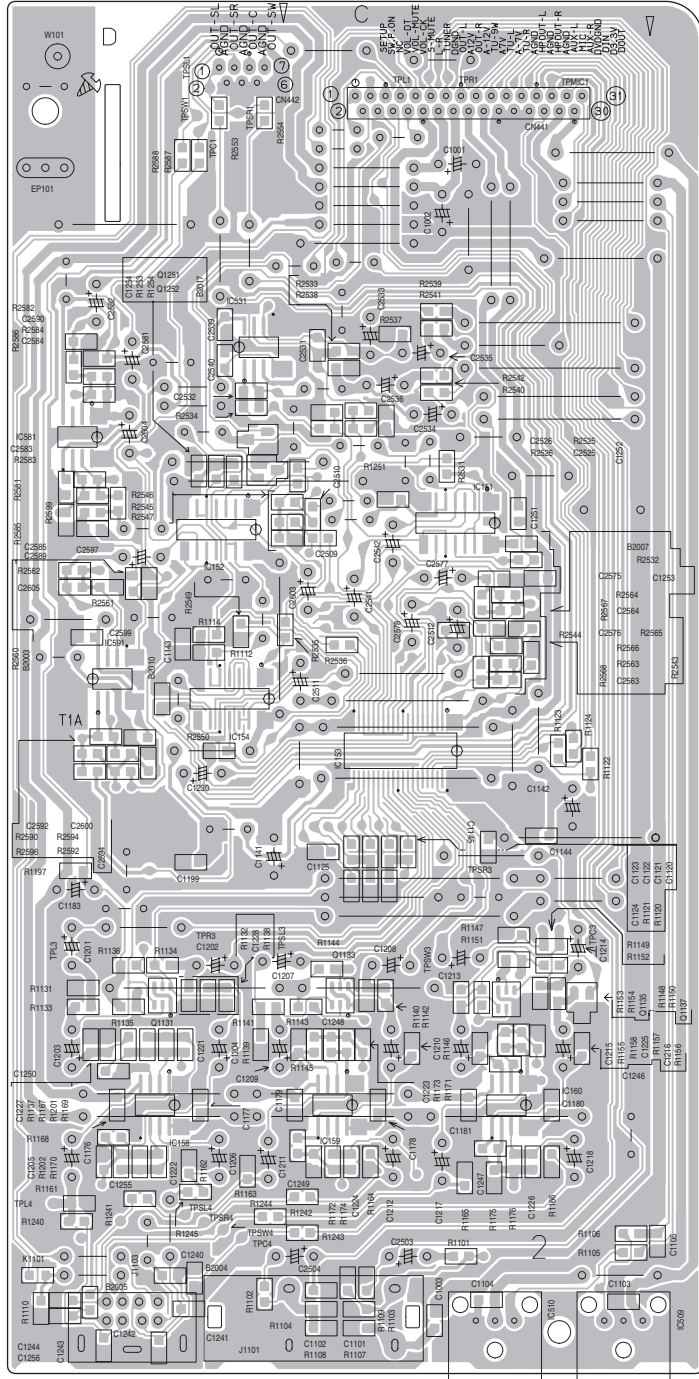
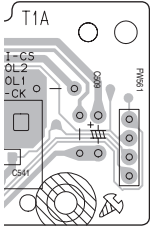


(Power key board)



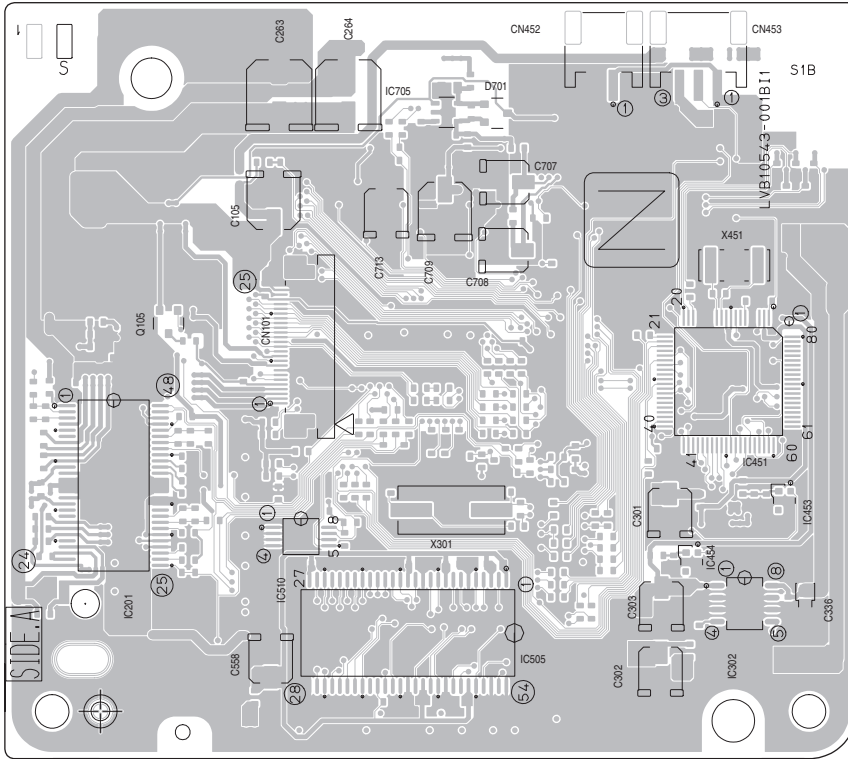
■ Audio board

(Audio & Digital input board)

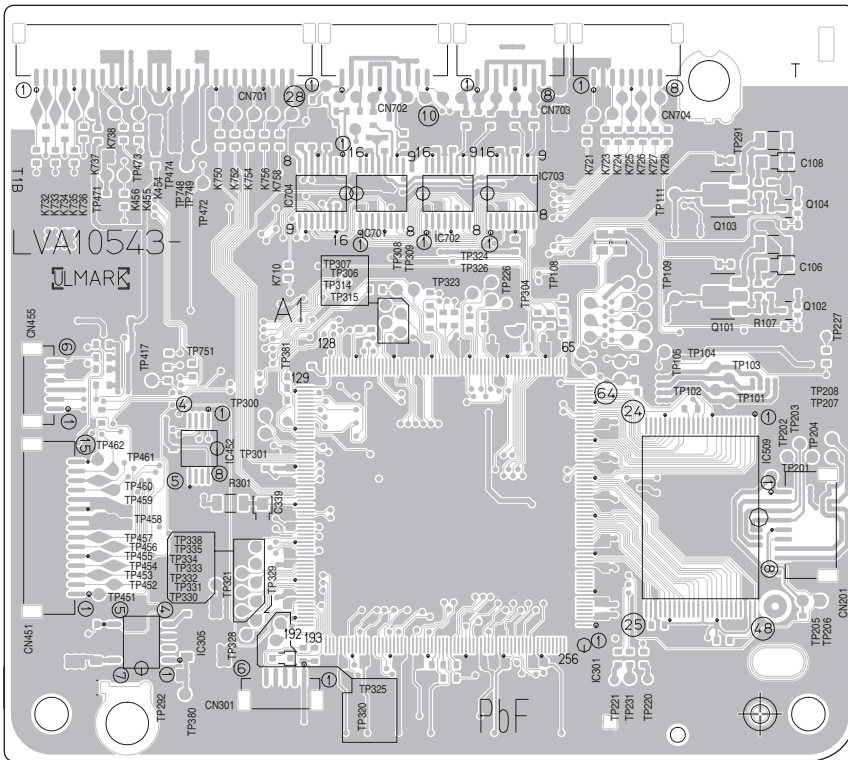


■ DVD servo board

Forward side

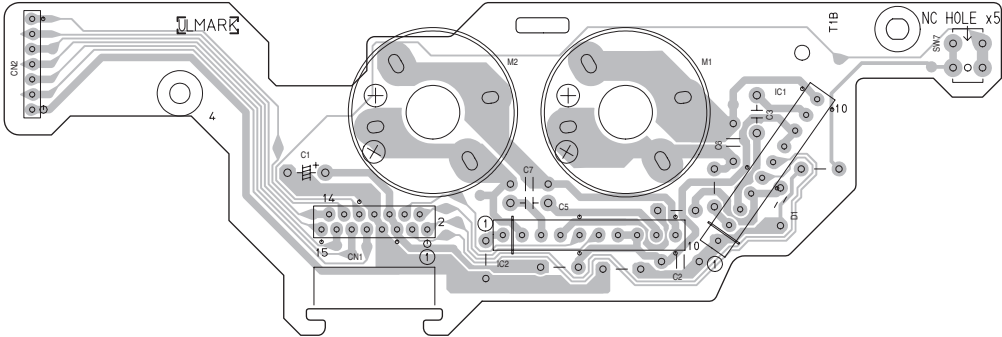


Reverse side

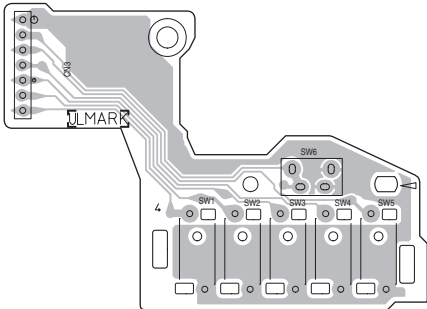


■ Loading board

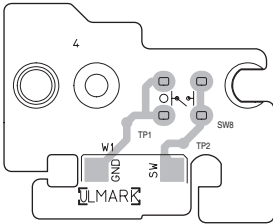
(Motor board)



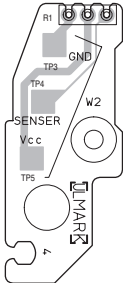
(Tray switch board)



(Switch board)



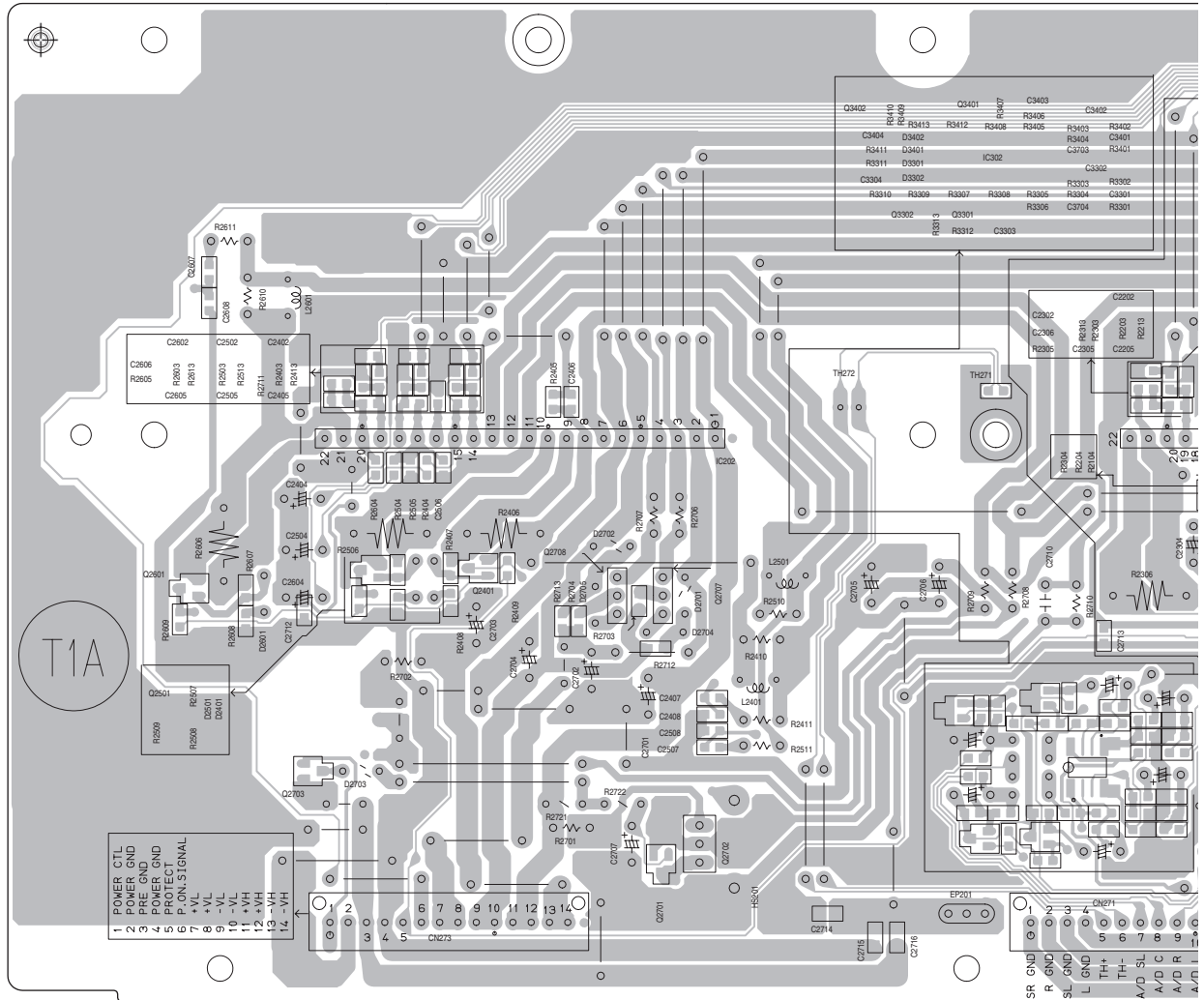
(Sensor board)



<Subwoofer section>

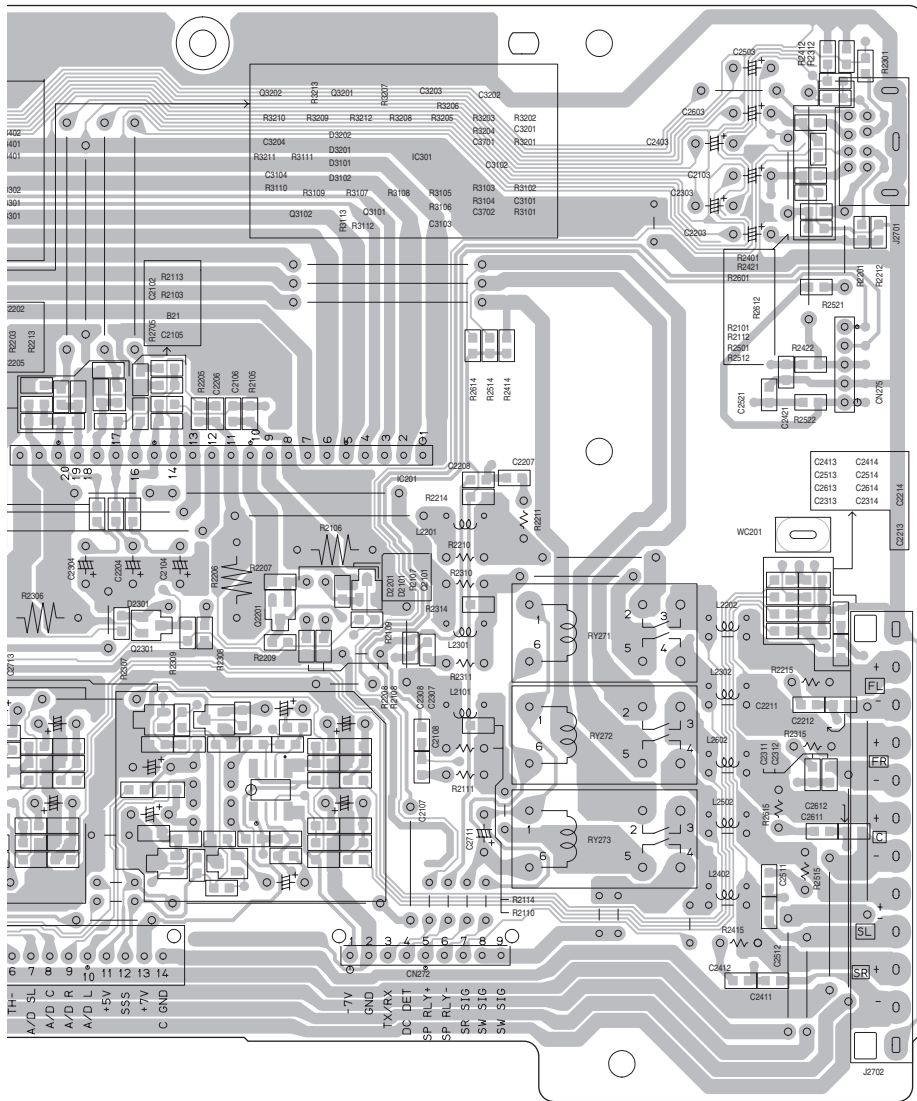
■ Amp board

(Amp board)



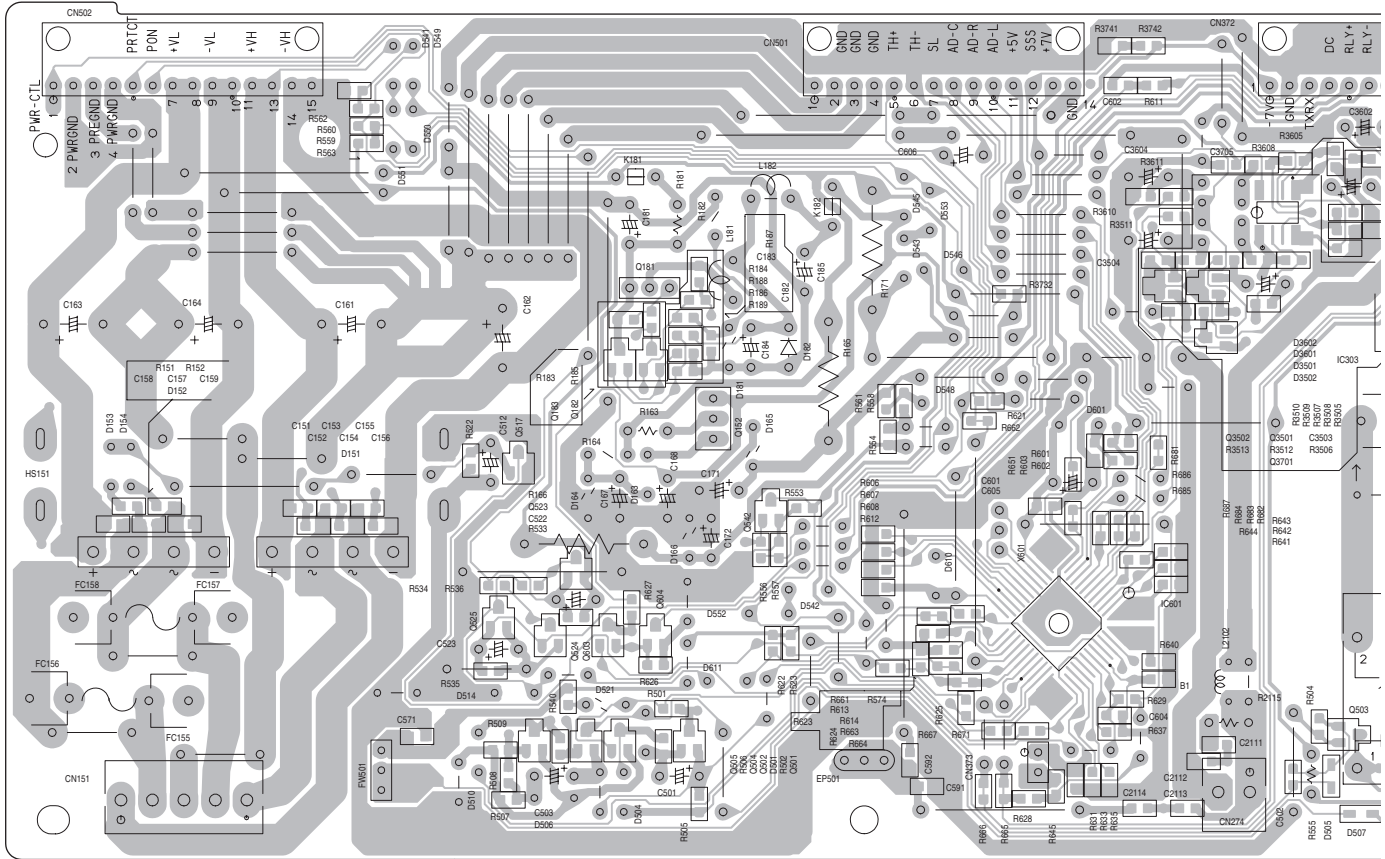
- 1 POWER CTL
- 2 POWER GND
- 3 PRE GND
- 4 POWER GND
- 5 PROTECT
- 6 P.ON SIGNAL
- 7 +V
- 8 -V
- 9 -VL
- 10 -VL
- 11 +VH
- 12 +VH
- 13 -VH
- 14 -VH

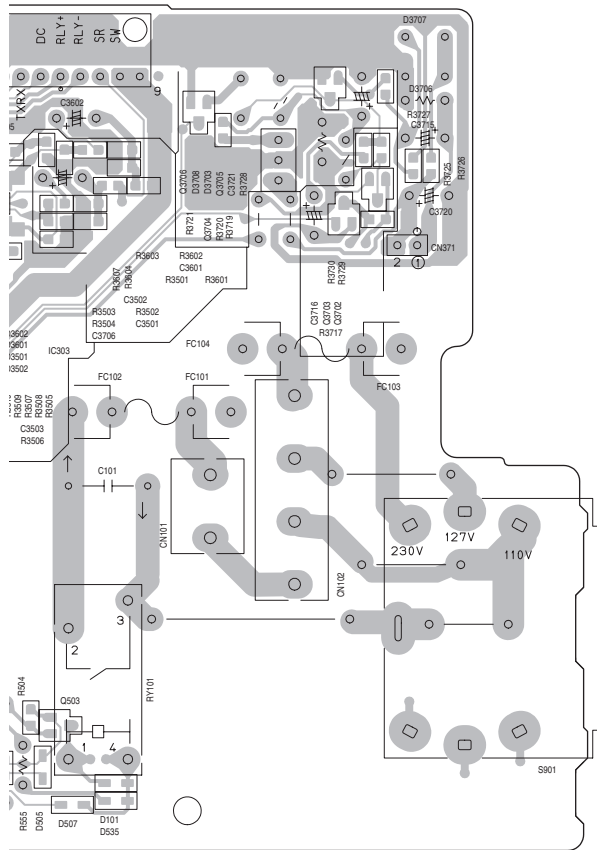
- SR GND
- R GND
- SL GND
- L GND
- TH+
- TH-
- A/D SL
- A/D C
- A/D R
- A/D L



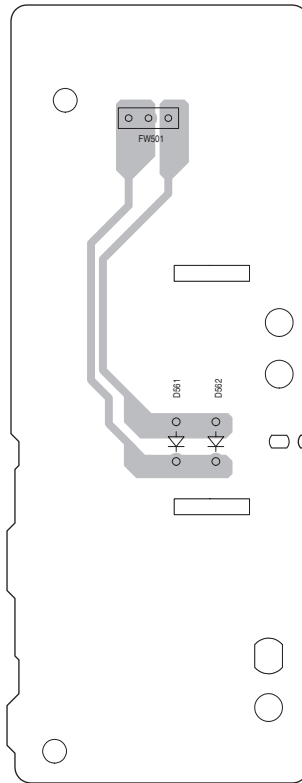
■ Mother board

(Mother board)





(LED board)



JVC

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(No.MB362SCH)



Printed in Japan
VPT