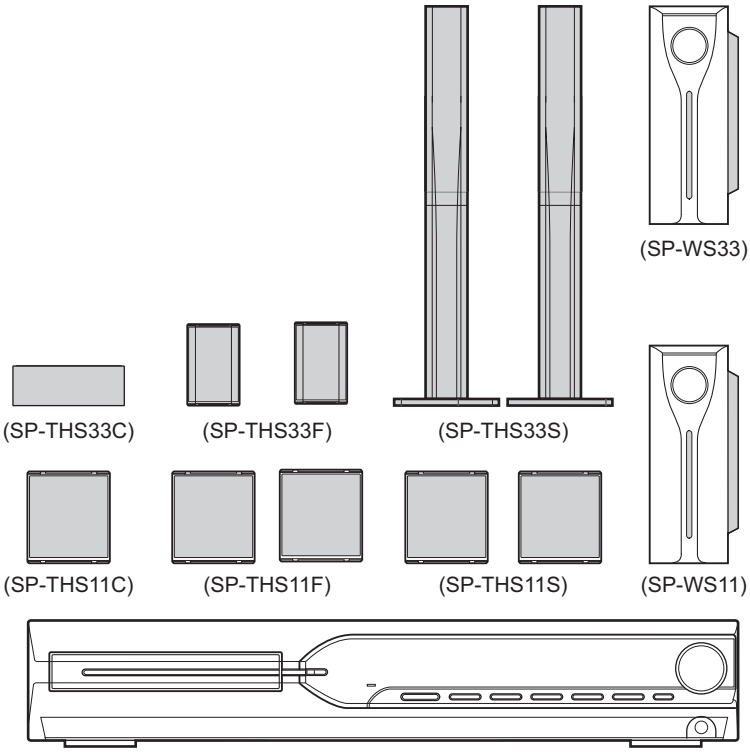
JVC

SCHEMATIC DIAGRAMS

DVD DIGITAL CINEMA SYSTEM

TH-S33,TH-S11

CD-ROM No.SML200505



Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe
EE -------- Russian Federation

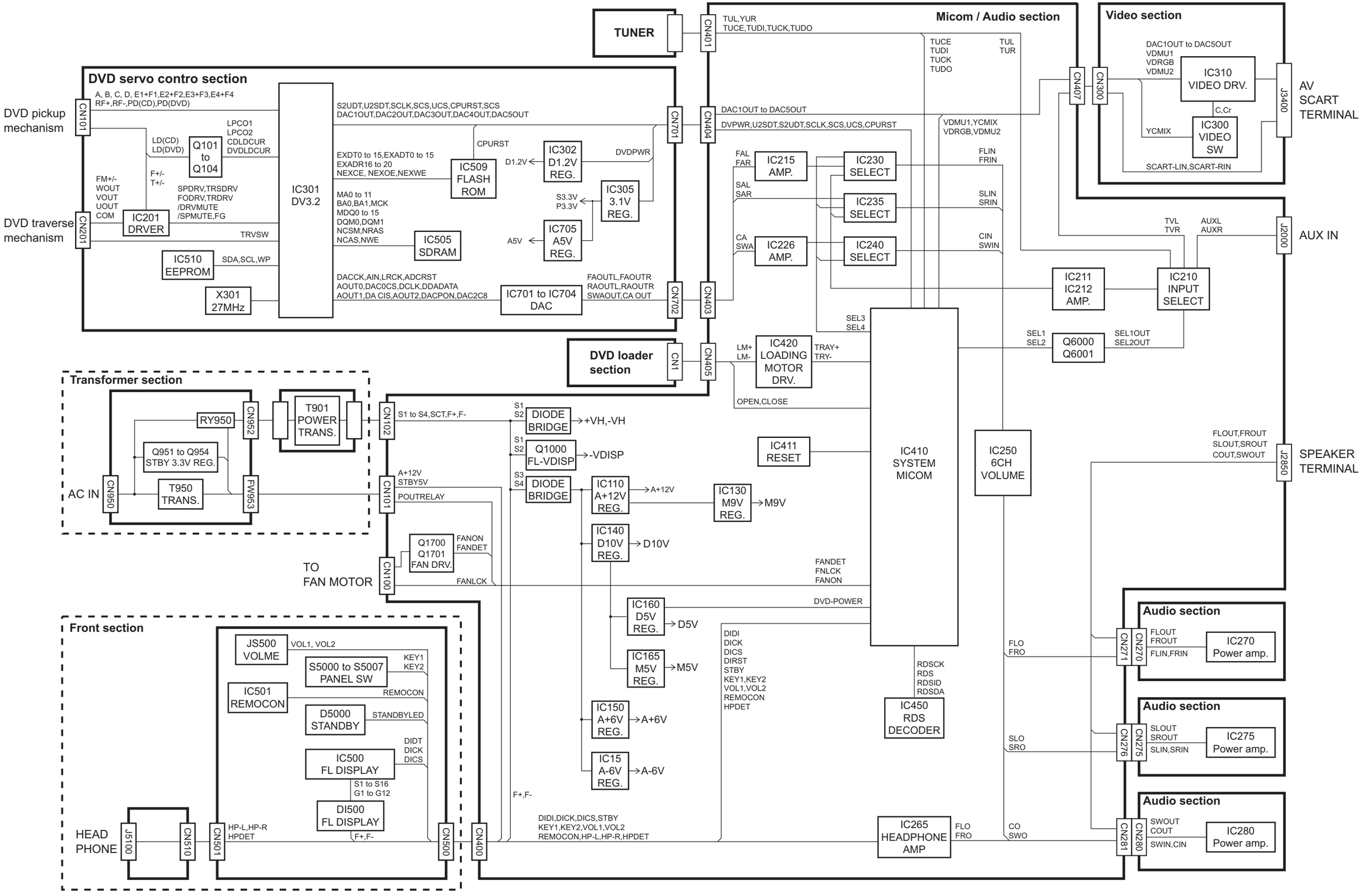
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Contents

No.MB393SCH
2005/5

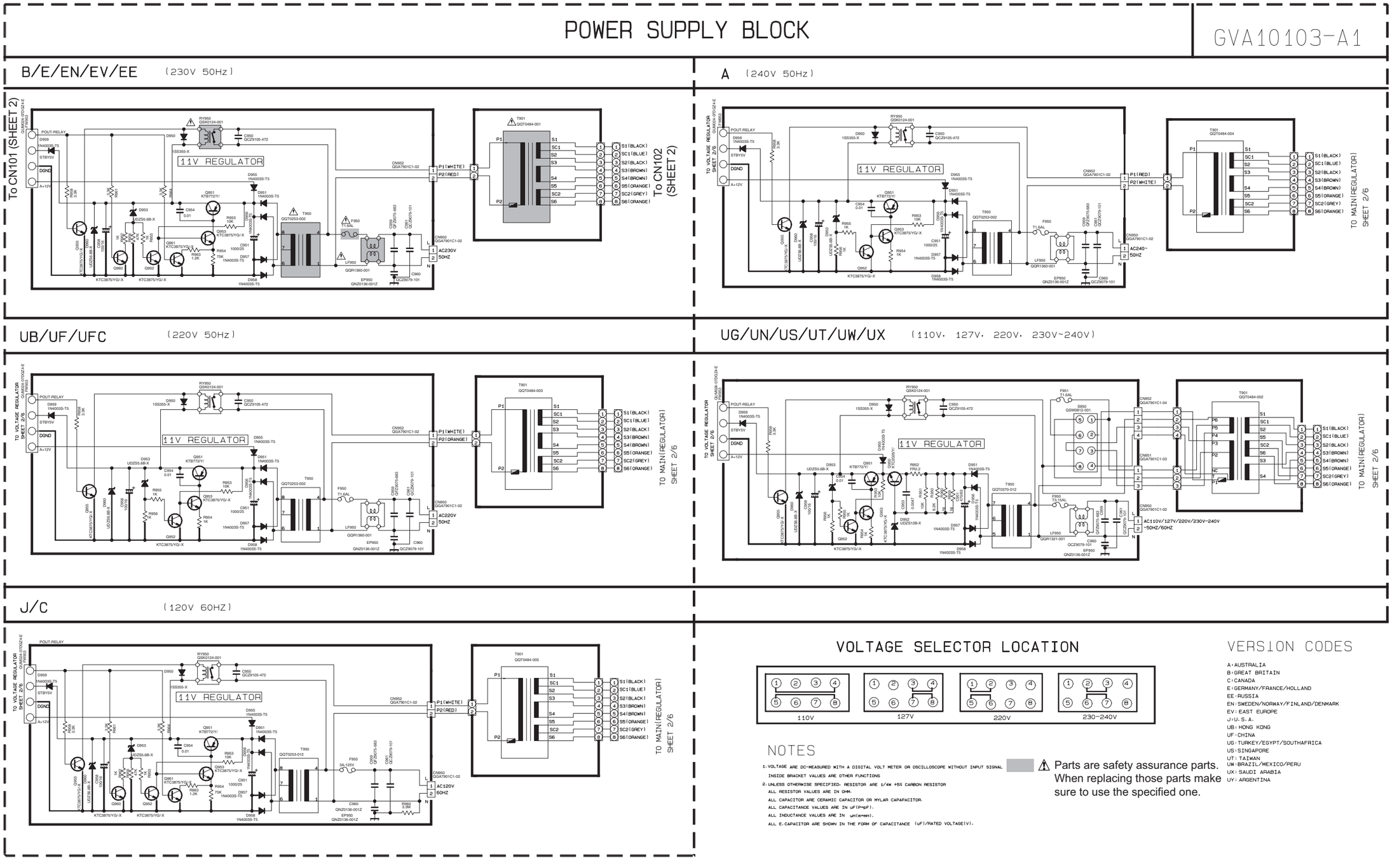
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (⬤) or identified by the "⚠" mark nearby are critical for safety.

Block diagram

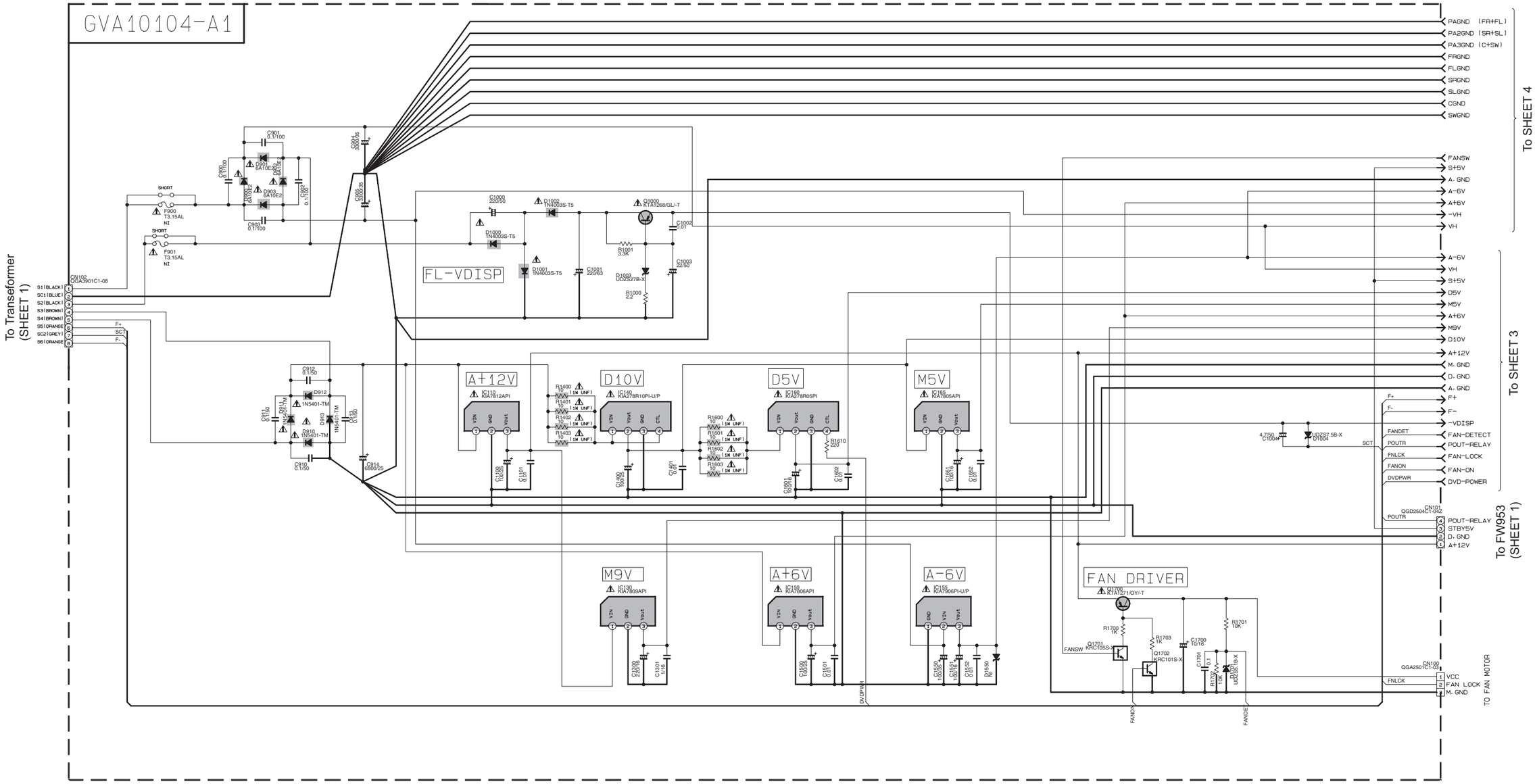


Standard schematic diagrams

■ Transformer section



■ Regulator section



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE Vol.0
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 #F(P=pF).
   ALL INDUCTANCE VALUES ARE IN # H(m=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).
   ALL DIODES ARE MA111-X
3. MARK(* AND #) IS TO SHOW DEVVIATION IN VERSIONS ARE EXPLAINED NEAR MARK.

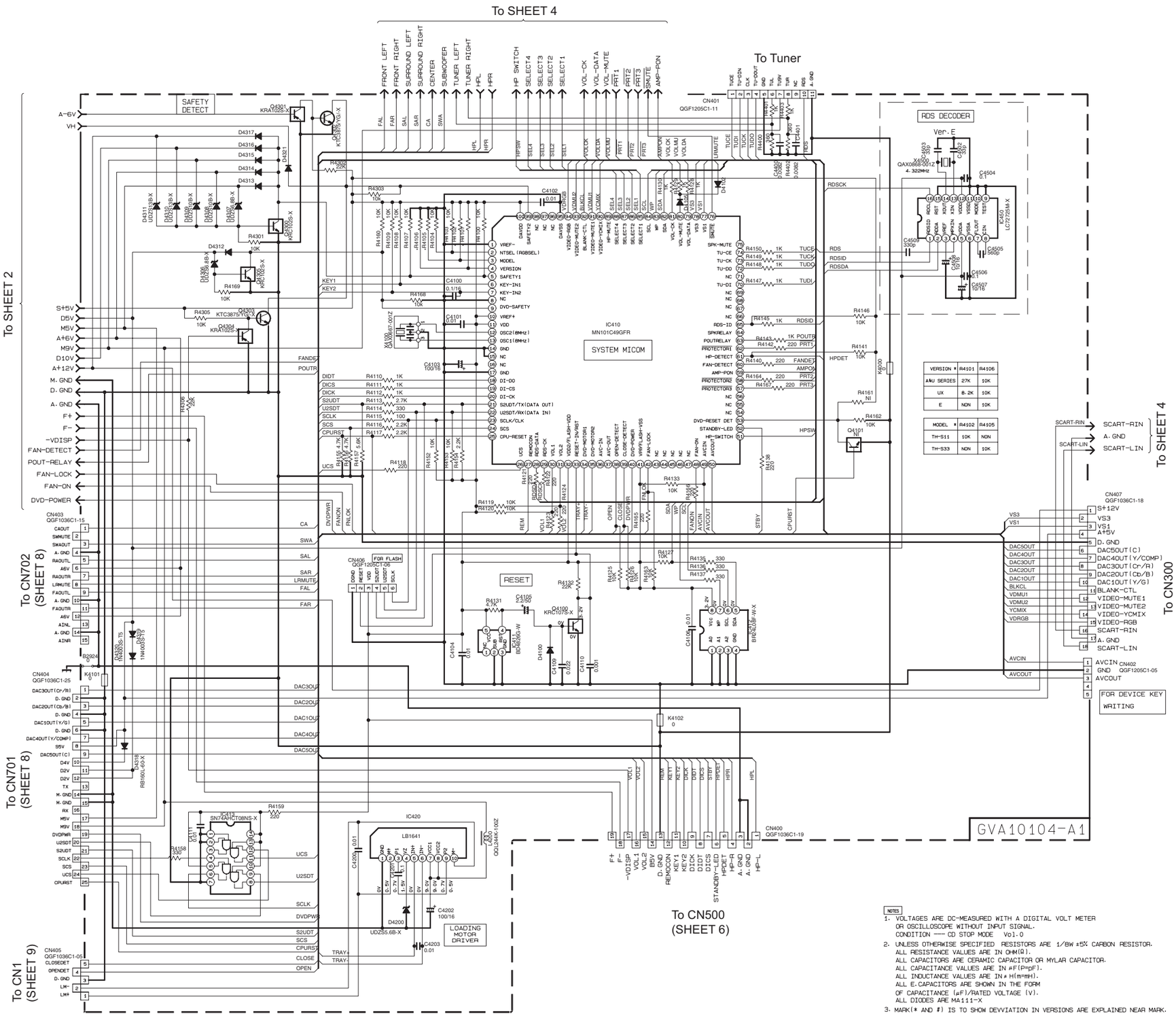
KRC101S-X

KRC105S-X

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

SHEET 2

■ Micon section



VERSION #	R4101	R4106
AMU SERIES	27K	10K
UX	8.2K	10K
E	NON	10K

MODEL #	R4102	R4105
TH-S11	10K	NON
TH-S33	NON	10K

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   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR 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).
   ALL DIODES ARE MA111-X
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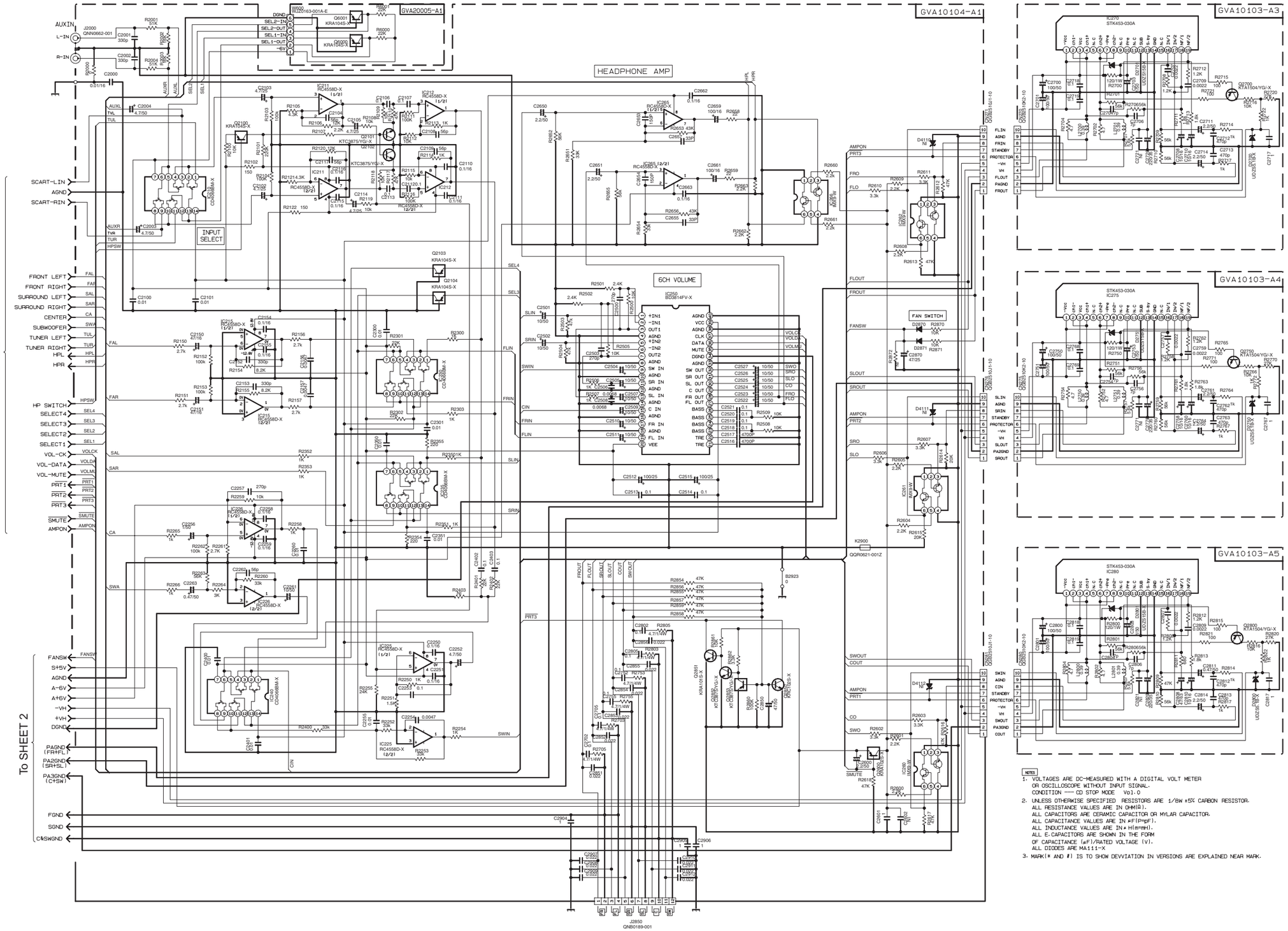
SHEET 3

■ Audio section



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE Vol.0
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 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).
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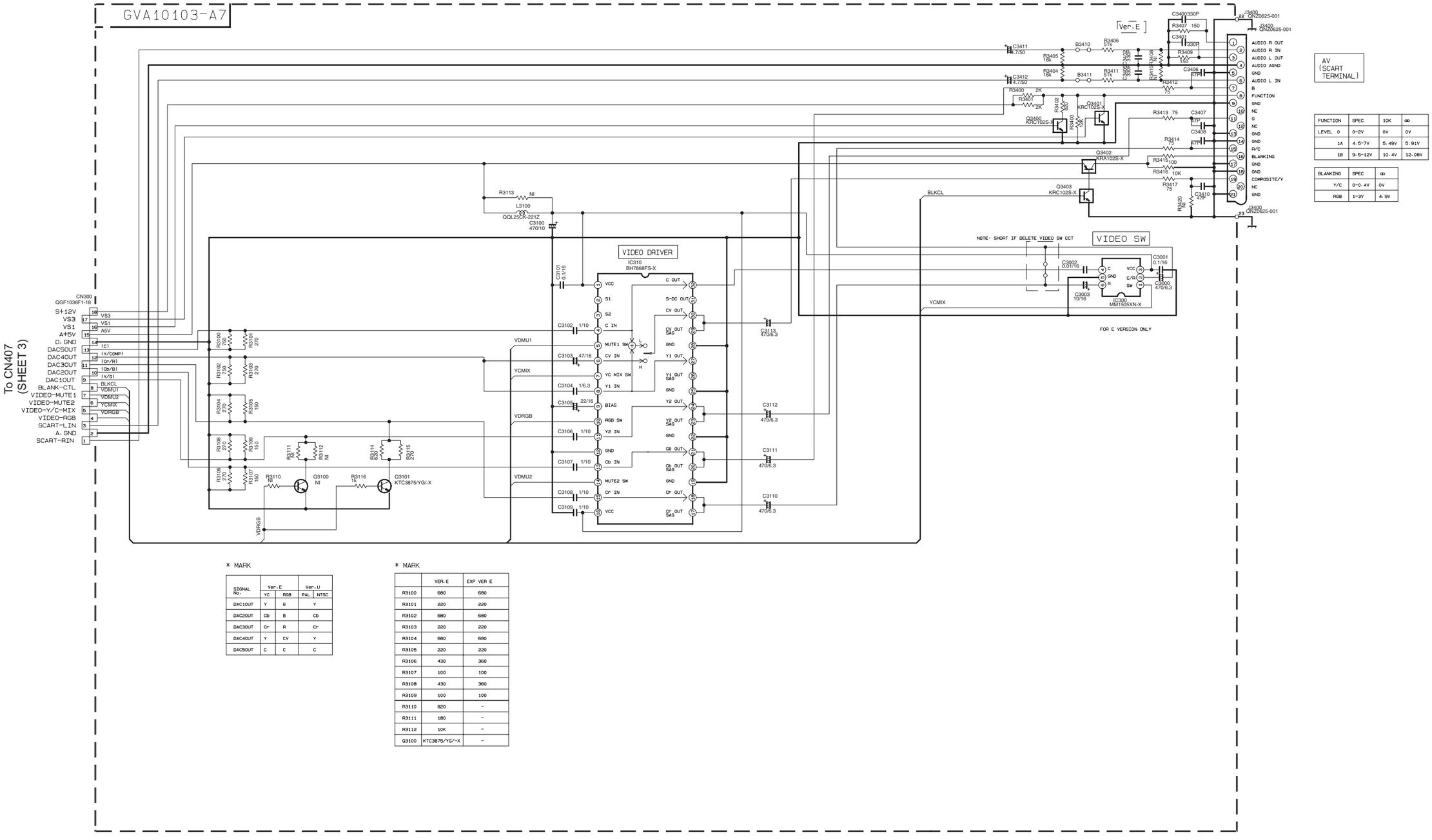
3. MARK(* AND #) IS TO SHOW DEVVIATION IN VERSIONS ARE EXPLAINED NEAR MARK.

■ Video section



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	4.9V

* MARK

SIGNAL No.	Ver.E		Ver.U	
	YC	RGB	PAL	NTSC
DAC1OUT	Y	G	Y	
DAC2OUT	Cb	B	Cb	
DAC3OUT	Cr	R	Cr	
DAC4OUT	Y	CV	Y	
DAC5OUT	C	C	C	

* MARK

	VER.E	EXP VER E
R3100	680	680
R3101	220	220
R3102	680	680
R3103	220	220
R3104	680	680
R3105	220	220
R3106	430	360
R3107	100	100
R3108	430	360
R3109	100	100
R3110	820	-
R3111	180	-
R3112	10K	-
Q3100	KTC3875/YG/-X	-

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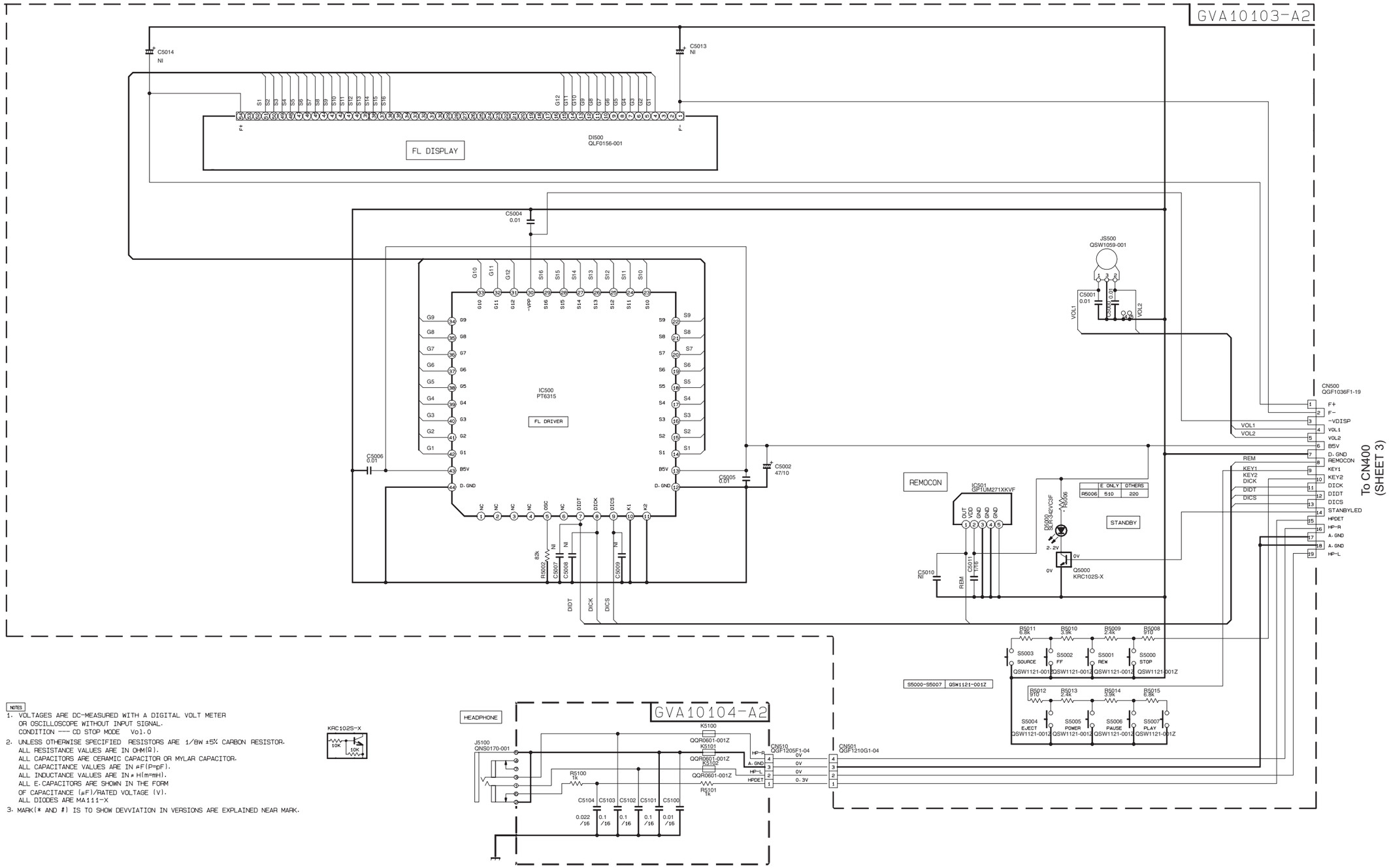
   CONDITION --- CD STOP MODE Vol.0
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN ≠ H(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE MA111-X
3. MARK(* AND #) IS TO SHOW DEVVIATION IN VERSIONS ARE EXPLAINED NEAR MARK.

SHEET 5

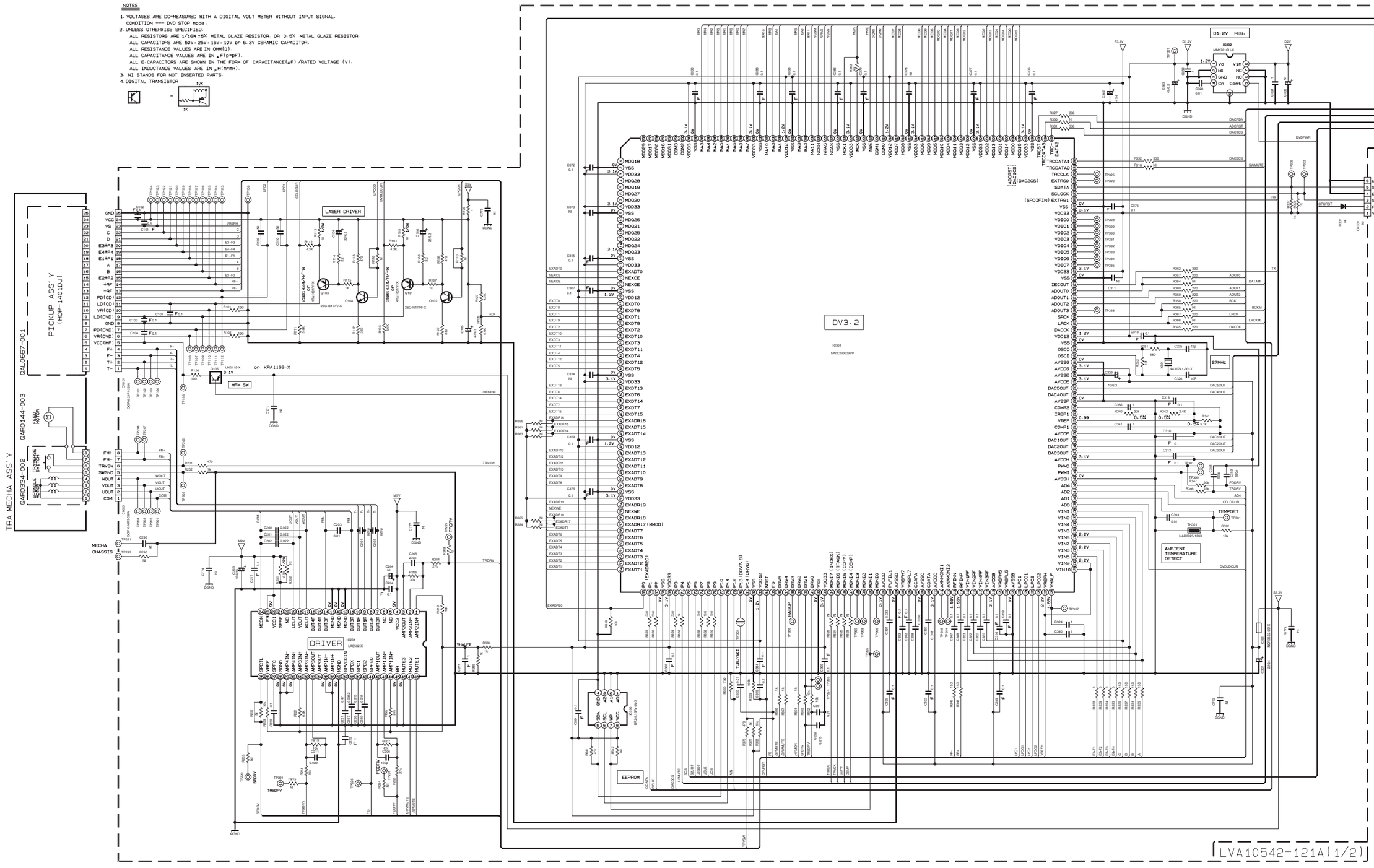
■ Front section



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
   OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION —— CD STOP MODE Vol.0
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 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).
   ALL DIODES ARE MA111-X
3. MARK(* AND #) IS TO SHOW DEVVIATION IN VERSIONS ARE EXPLAINED NEAR MARK.

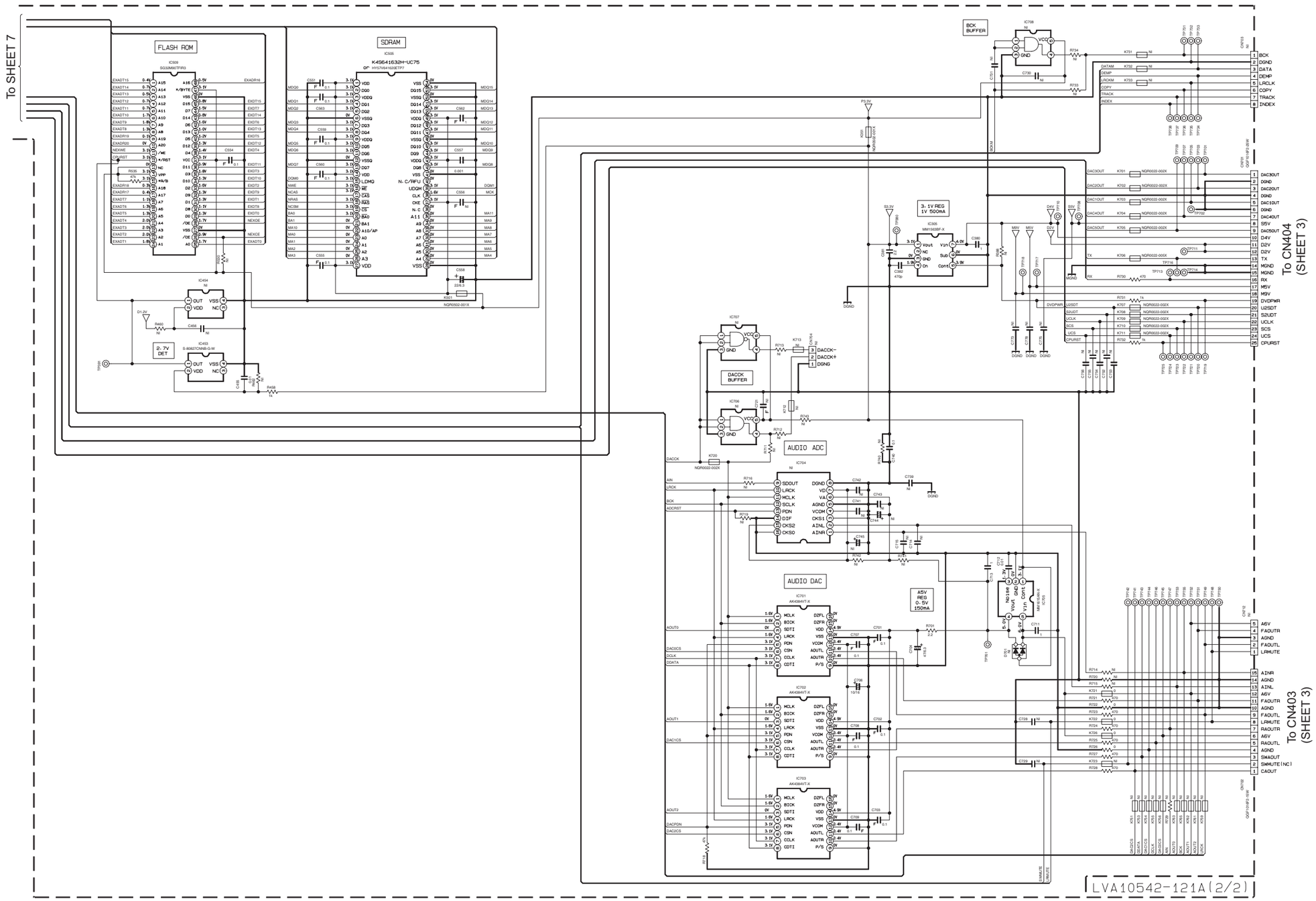
KRC102S-X

■ DVD servo control section (1/2)



SHEET 7

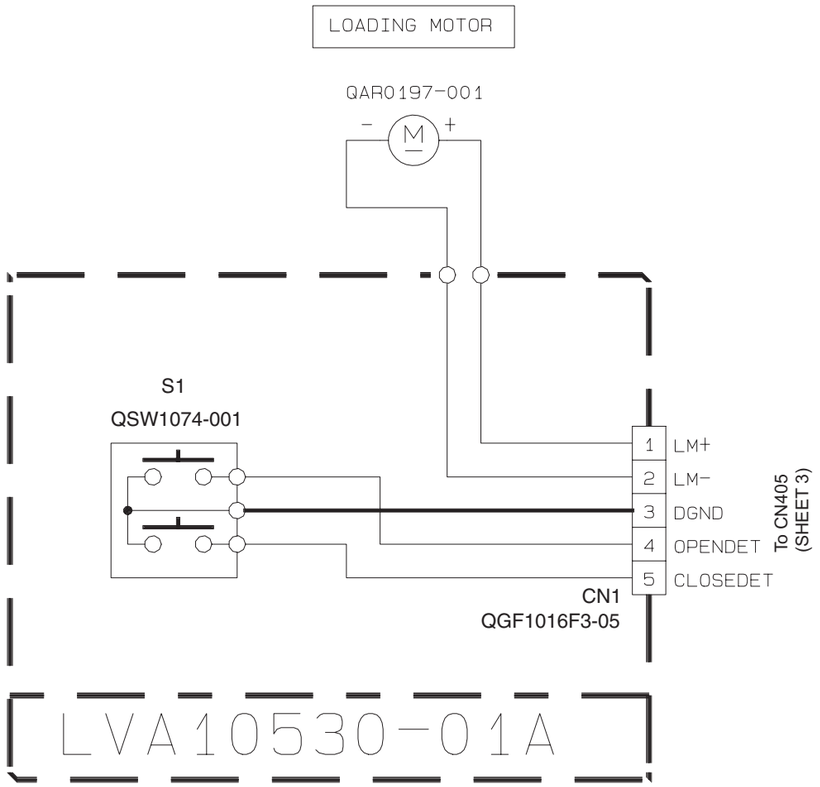
■ DVD servo control section (2/2)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION ---- DVD 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 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).
3. NI STANDS FOR NOT INSERTED PARTS.

SHEET 8


LOADING MOTOR
QAR0197-001
M
S1
QSW1074-001
1 LM+
2 LM−
3 DGND
4 OPENDET
5 CLOSEDET
To CN405
(SHEET 3)
CN1
QGF1016F3-05
LVA10530-01A

< MEMO >

SHEET 9

Printed circuit boards

■ Main board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

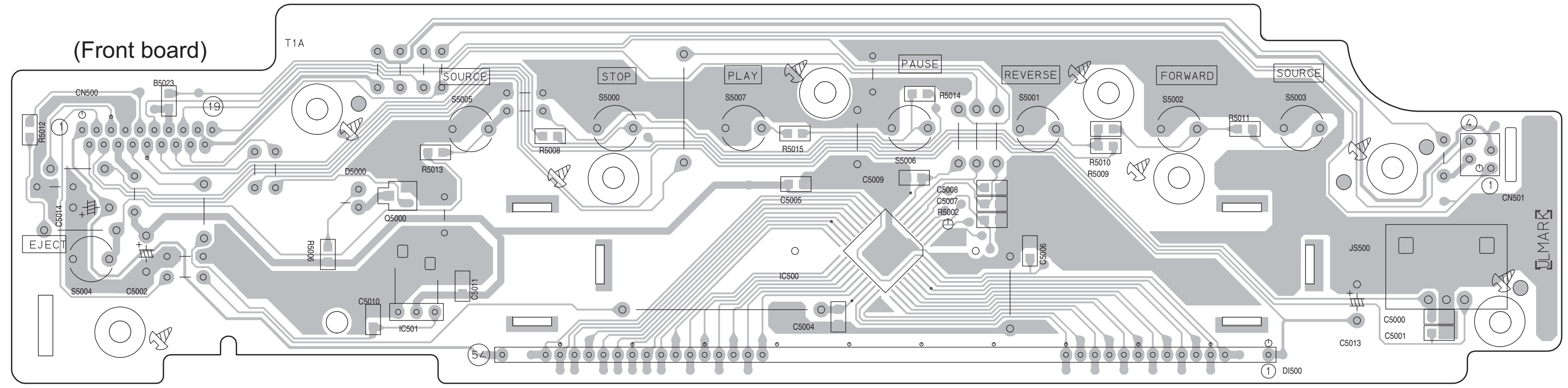
(Main board)

(HP terminal board)

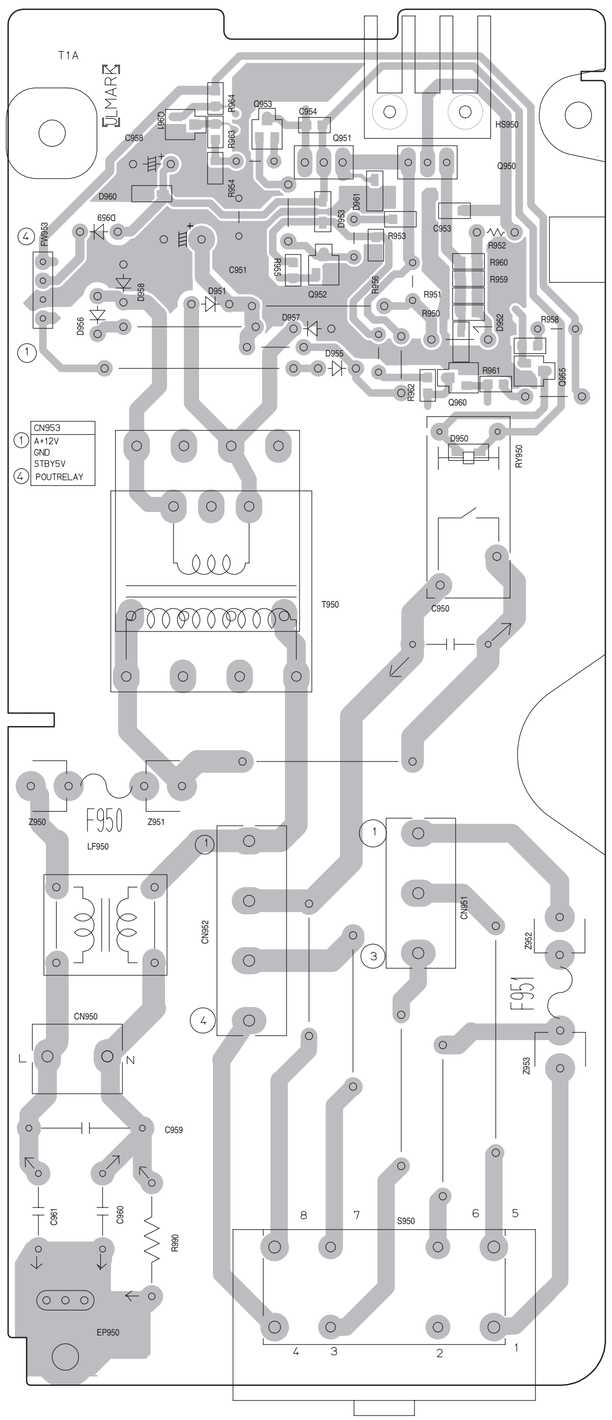
■ Trans board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

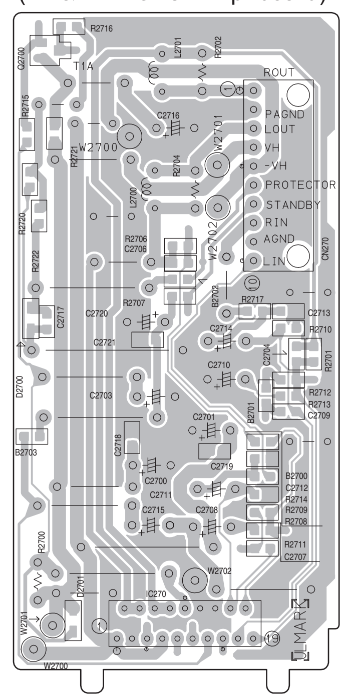
(Front board)



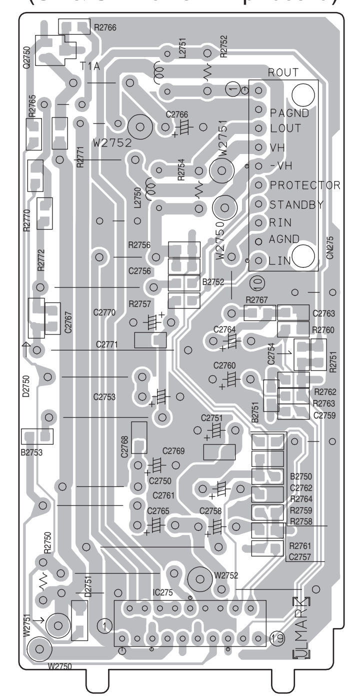
(Transformer board)



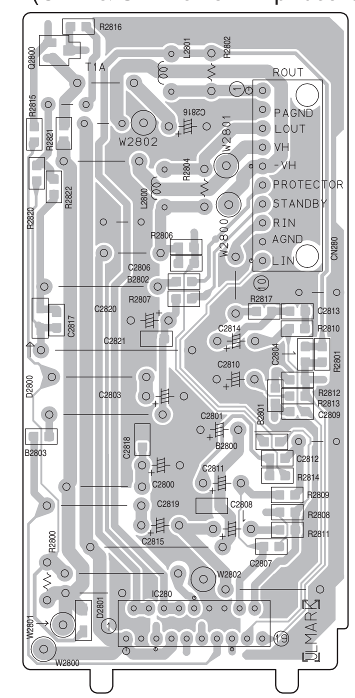
(FL & FR Power Amp. board)



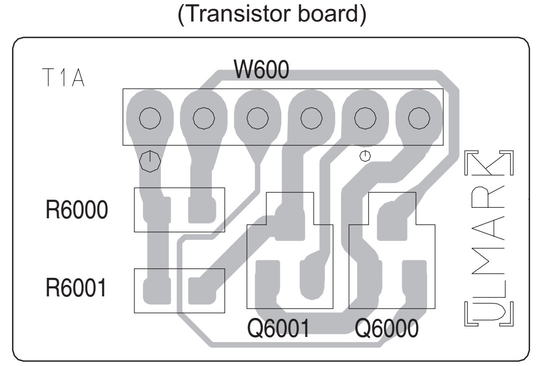
(SL & SR Power Amp. board)



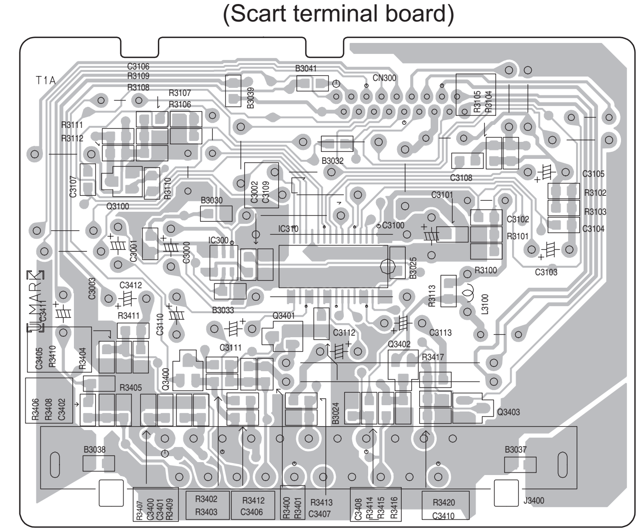
(CEN & SW Power Amp. board)



(Transistor board)



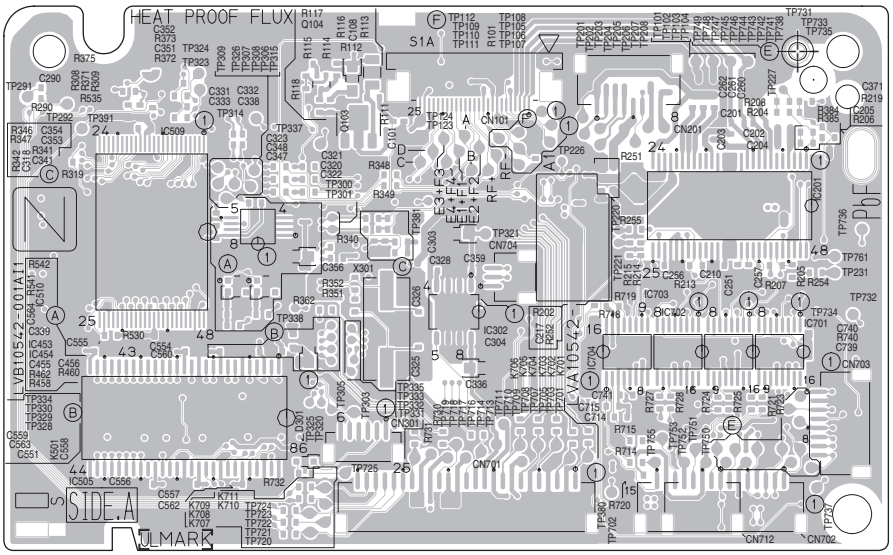
(Scart terminal board)



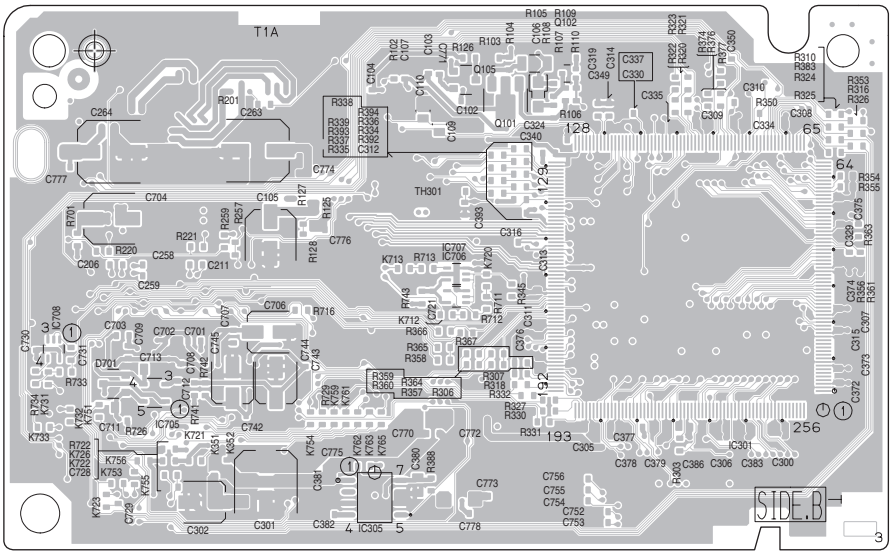
■ DVD servo control board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Forward side

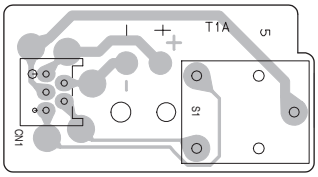


Reverse side



■ DVD loading switch board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



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