

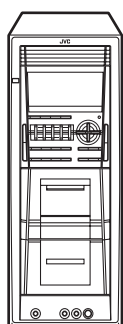
JVC

SCHEMATIC DIAGRAMS

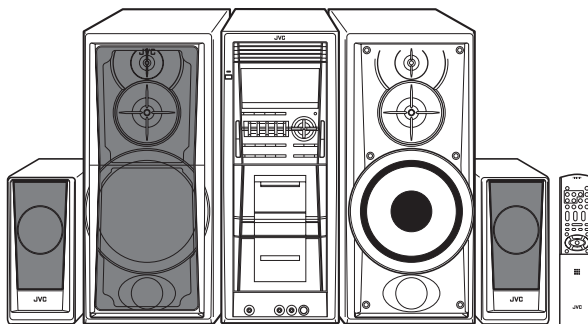
COMPACT COMPONENT SYSTEM

DX-T9, DX-T7 DX-T5

CD-ROM No.SML200505



(CA-DXT9, CA-DXT7)



(SP-XST5) (SP-XT5) (CA-DXT5) (SP-XT5) (SP-XST5)



DX-T9, DX-T7

Area suffix

A	-----	Australia
US	-----	Singapore
UW	-----	Brazil, Mexico, Peru
UX	-----	Saudi Arabia
UG	---	Turkey, South Africa, Egypt
UN	-----	Asean

DX-T5

Area suffix

US	-----	Singapore
UW	-----	Brazil, Mexico, Peru
UX	-----	Saudi Arabia
UY	-----	Argentina
UG	---	Turkey, South Africa, Egypt
UN	-----	Asean

	Main body	Front speaker	Subwoofer	Surround speaker	Center speaker
DX-T9	CA-DXT9	SP-XT9	SP-WT9	SP-XST9	SP-XCT9
DX-T7	CA-DXT7	SP-XT7	SP-WT7	SP-XST7	SP-XCT7
DX-T5	CA-DXT5	SP-XT5	---	SP-XST5	SP-XCT5

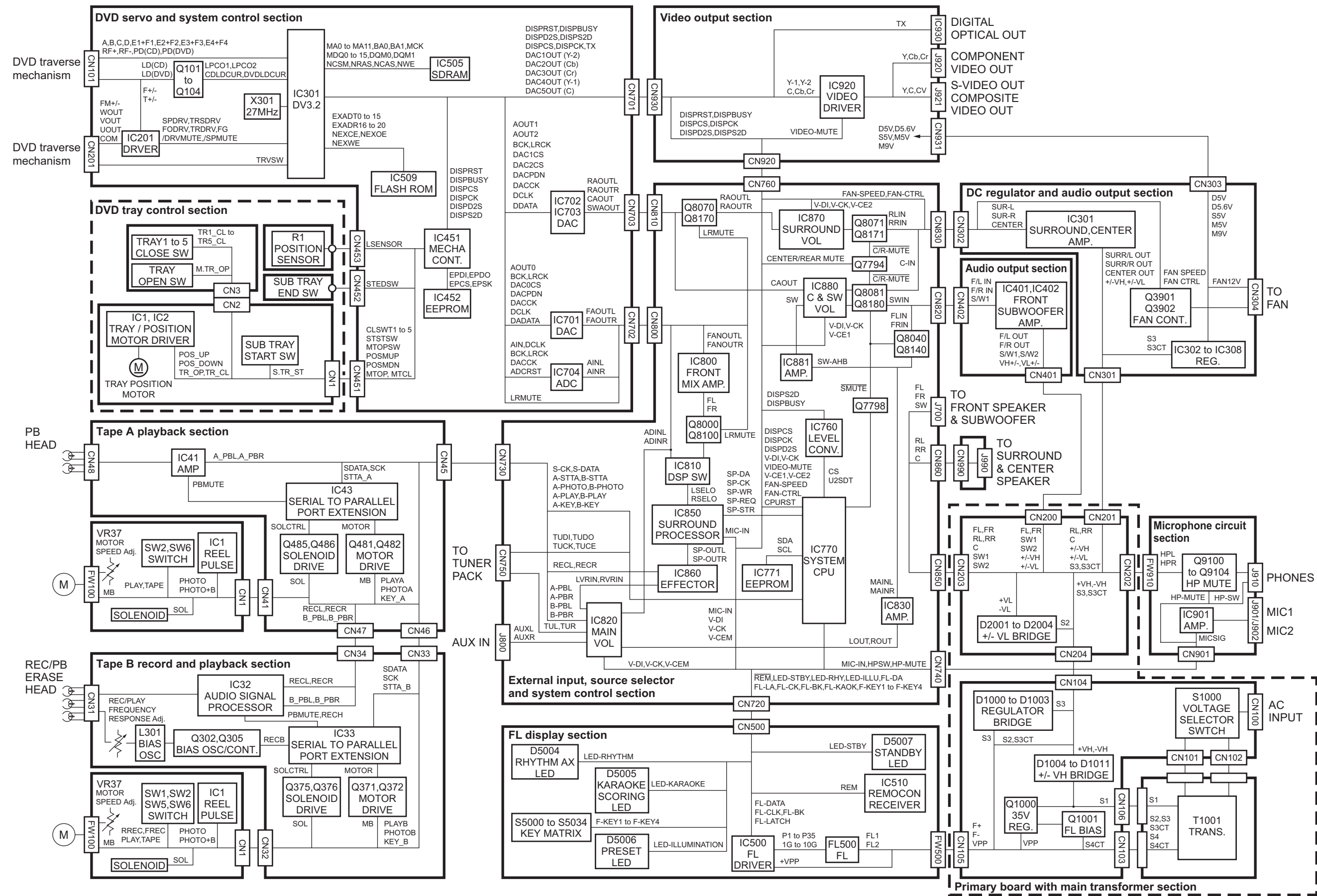
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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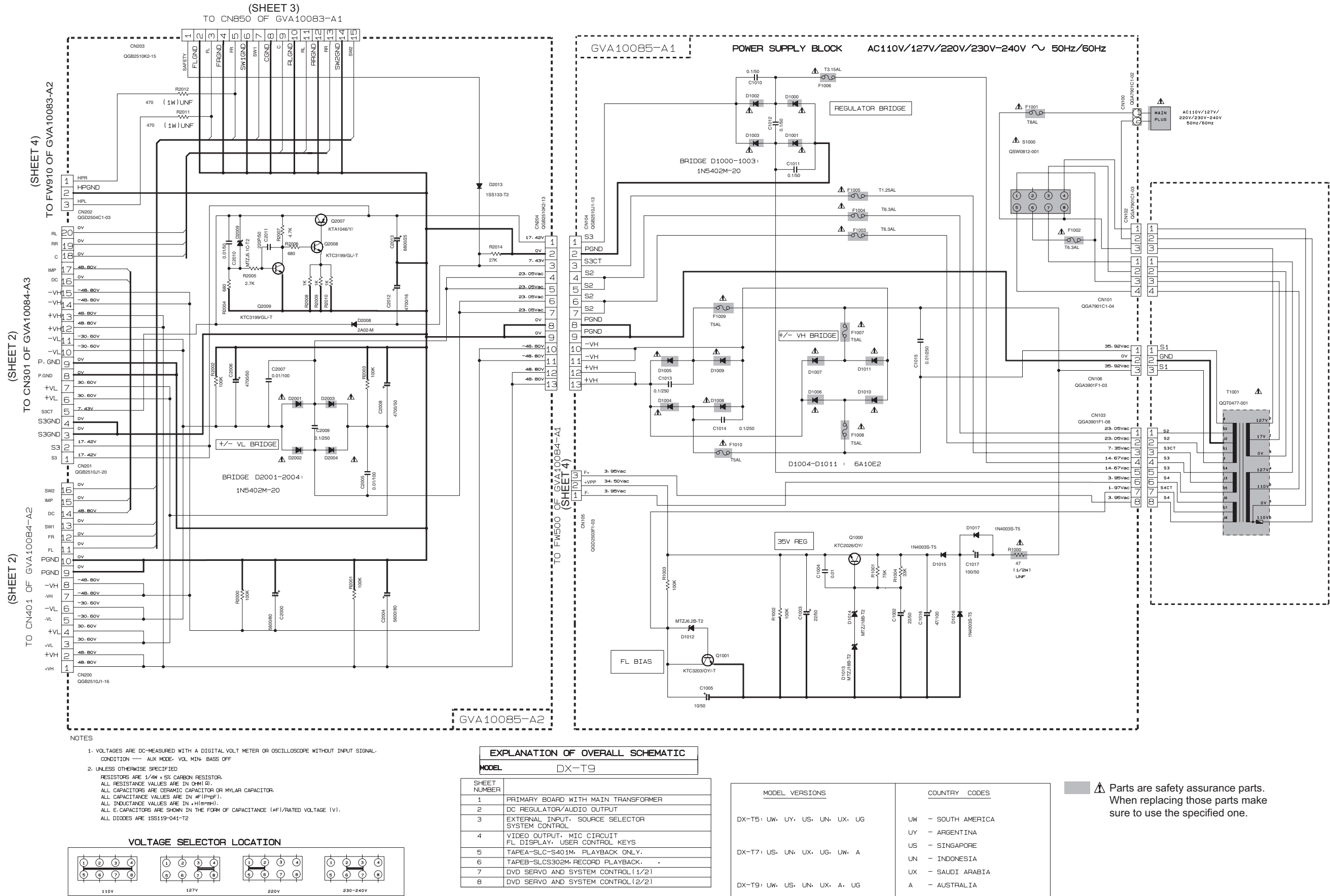
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (⬤) and ICP (●) or identified by the "A" mark nearby are critical for safety.

Block diagram (For DX-T9)

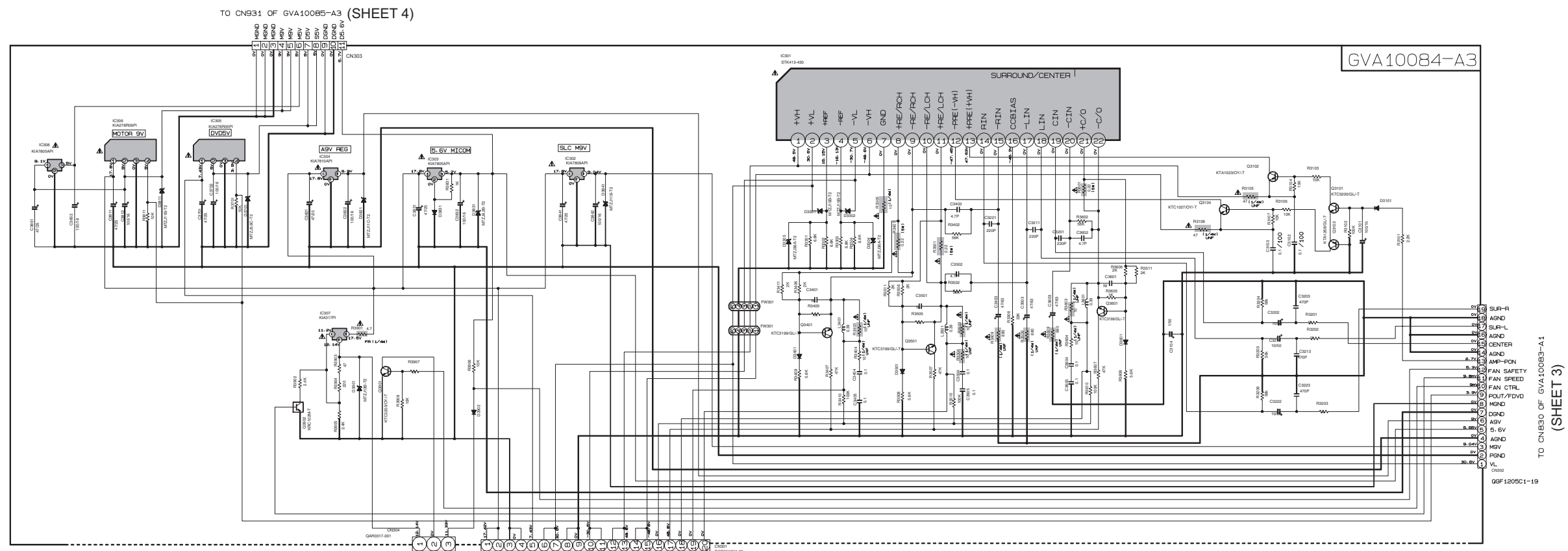


Standard schematic diagrams (For DX-T9)

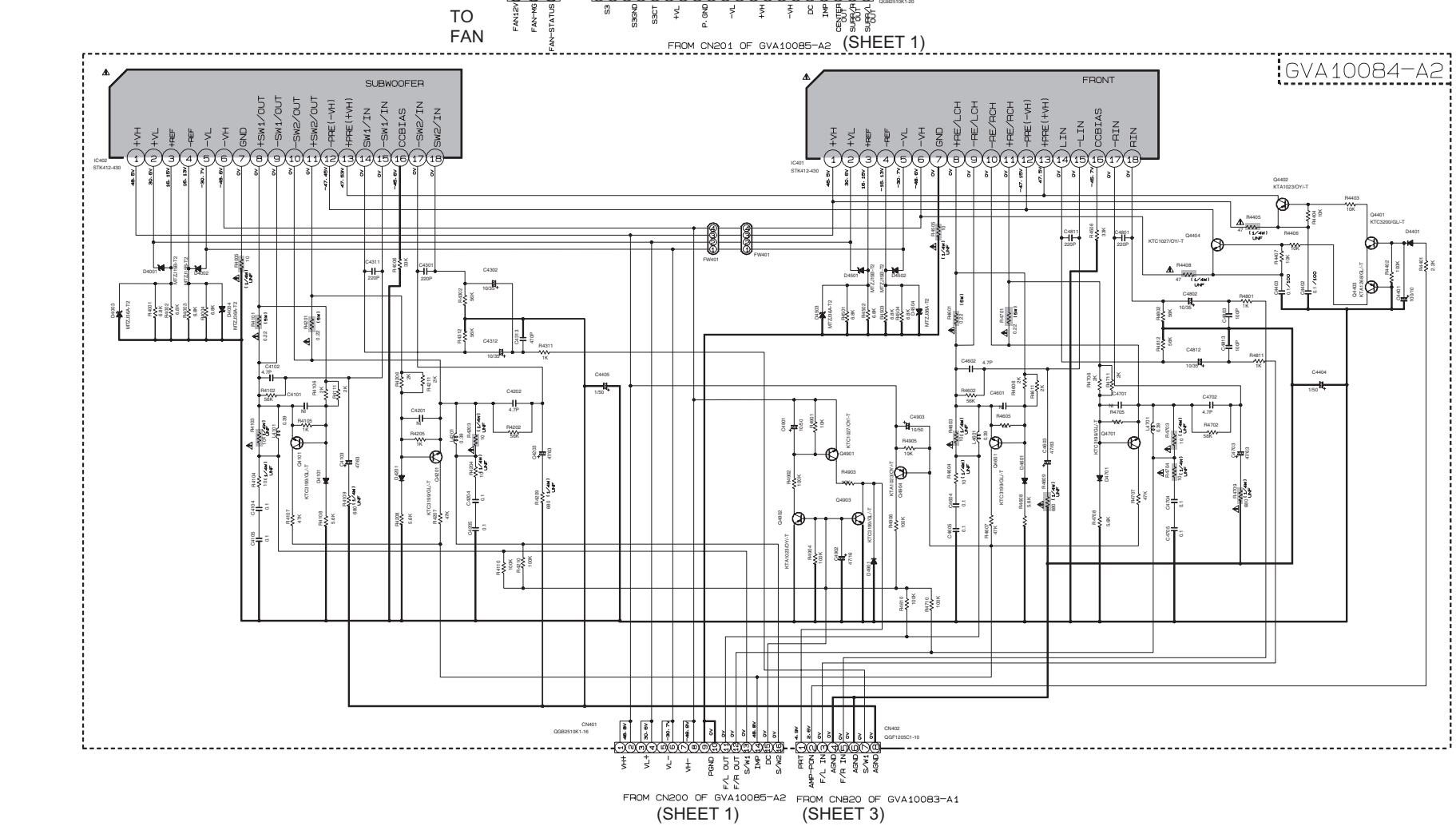
Primary board with main transformer section



DC regulator and audio output section

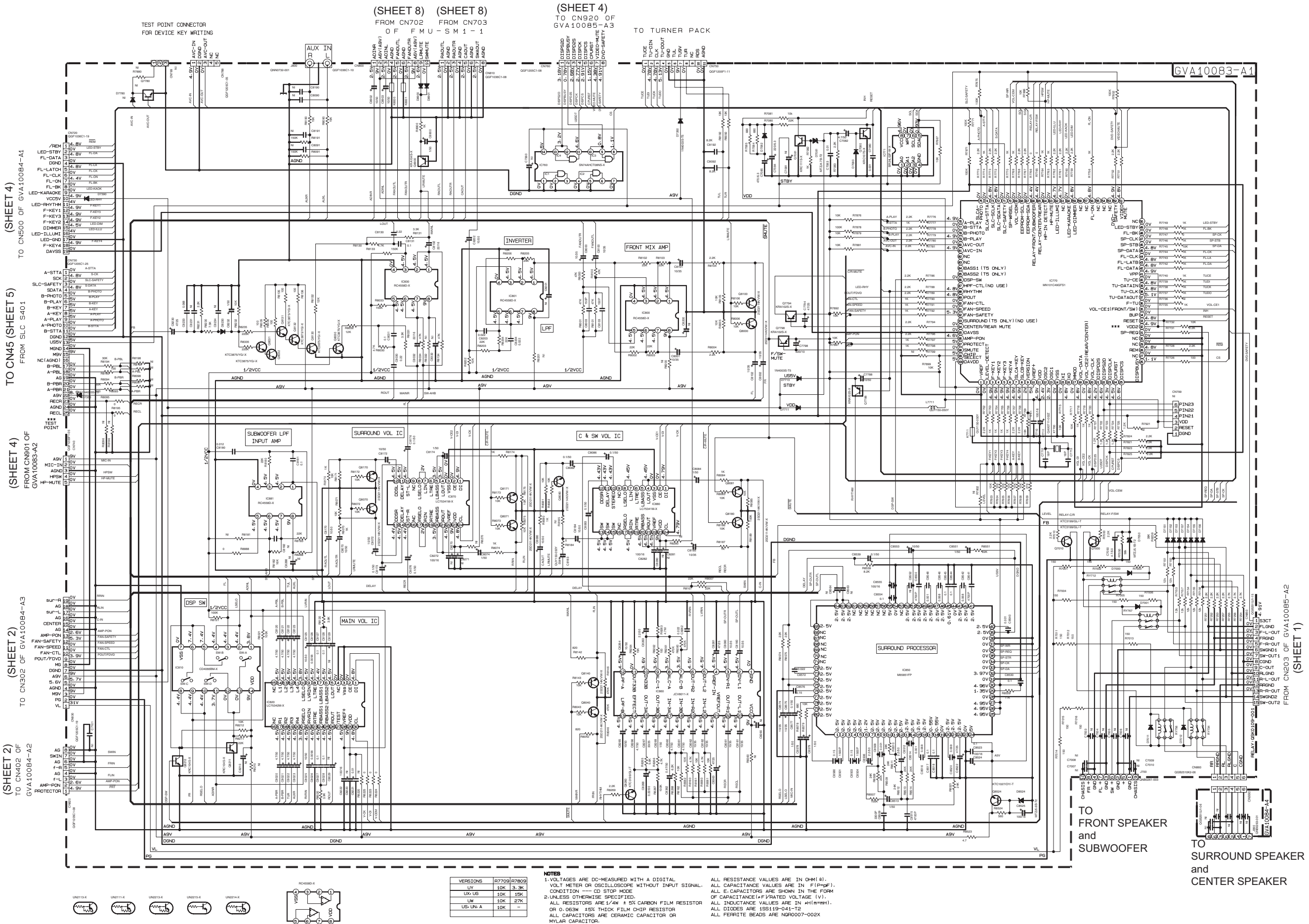


TO CNB30 OF GVA100B3-A1
(SHEET 3)



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION — A/V MODE, VOL. MAX, BASS OFF
 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 pF (pF).
ALL INDUCTANCE VALUES ARE IN mH (mH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIMENSIONS ARE 100±0.15mm.
- ⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

■ External input, source selector and system control section



VERSIONS	R7709	R7809
UV	10K	3.3K
UK-US	10K	15K
UK	10K	27K
US-UN-A	10K	-

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP MODE.

2. UNLESS OTHERWISE SPECIFIED.

ALL RESISTORS ARE 1/4W ± 5% CARBON FILM RESISTOR OR 0.063W ± 5% THICK FILM CHIP RESISTOR.

ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.

ALL RESISTANCE VALUES ARE IN OHM (Ω).

ALL CAPACITANCE VALUES ARE IN PICO (pF).

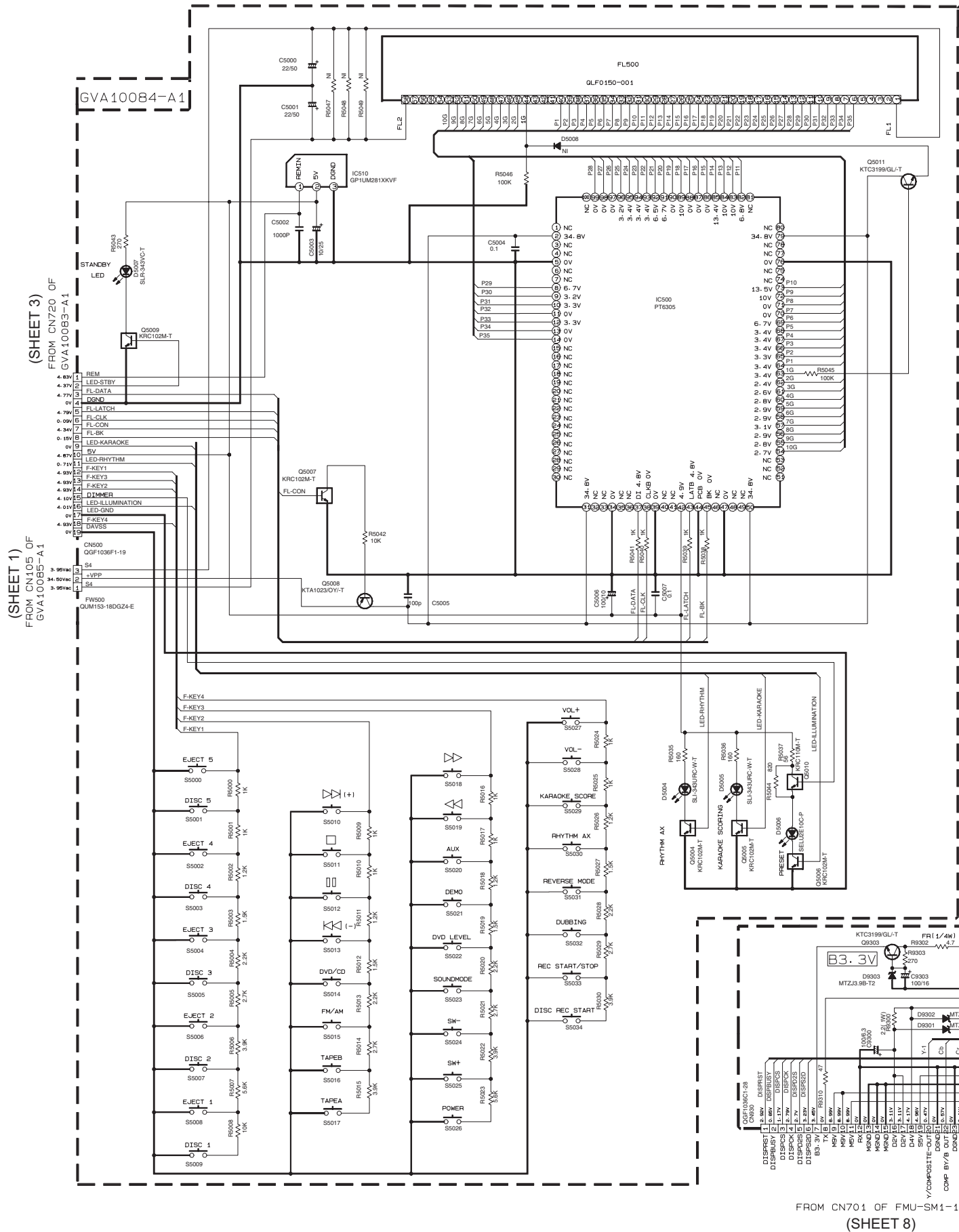
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) RATED VOLTAGE (V).

ALL INDUCTANCE VALUES ARE IN MILLI (mH).

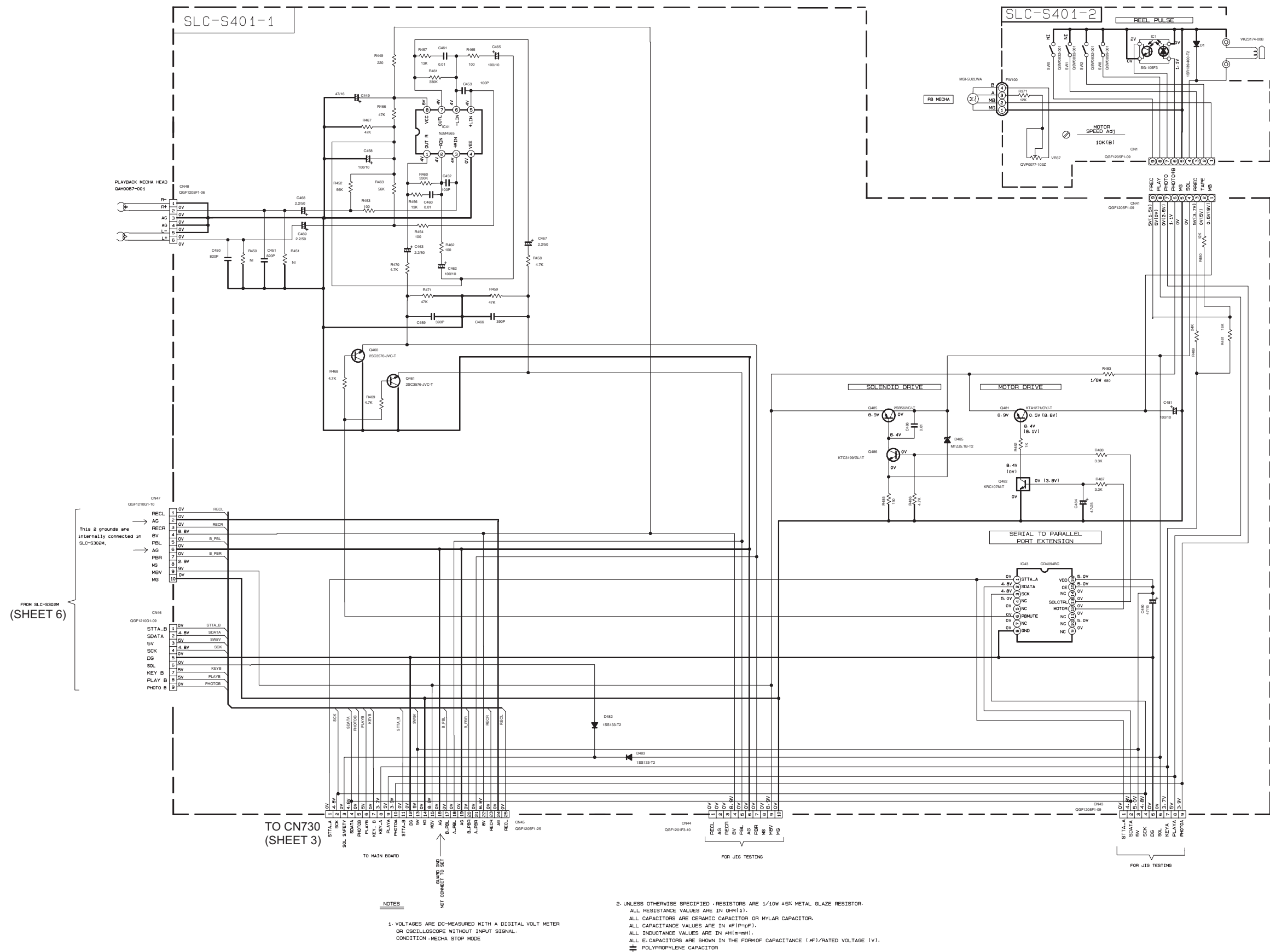
ALL DIODES ARE 1SS149-041-73.

ALL FERRITE BEADS ARE NGR0007-002X.

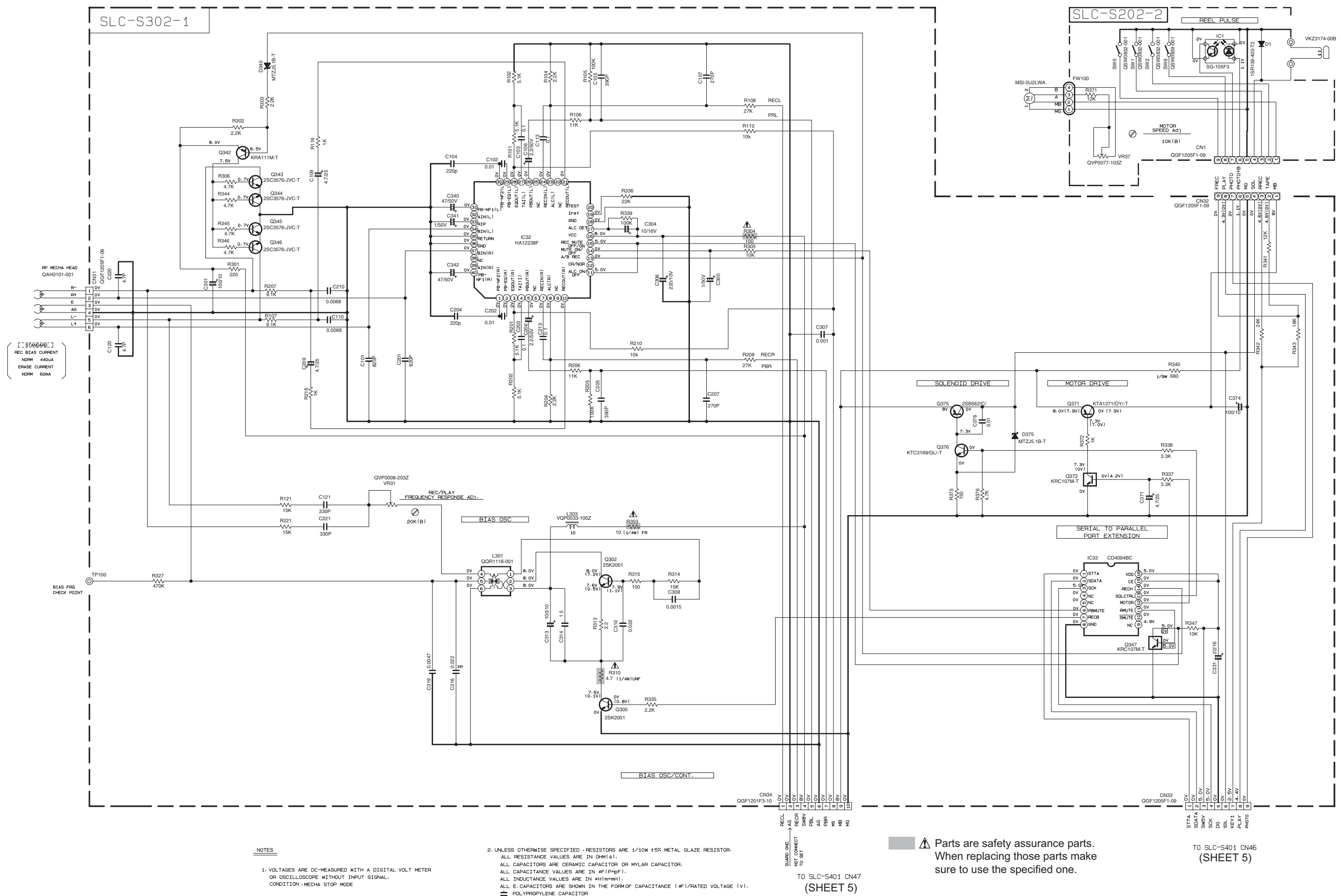
Video output, microphone circuit, FL display and user control keys section



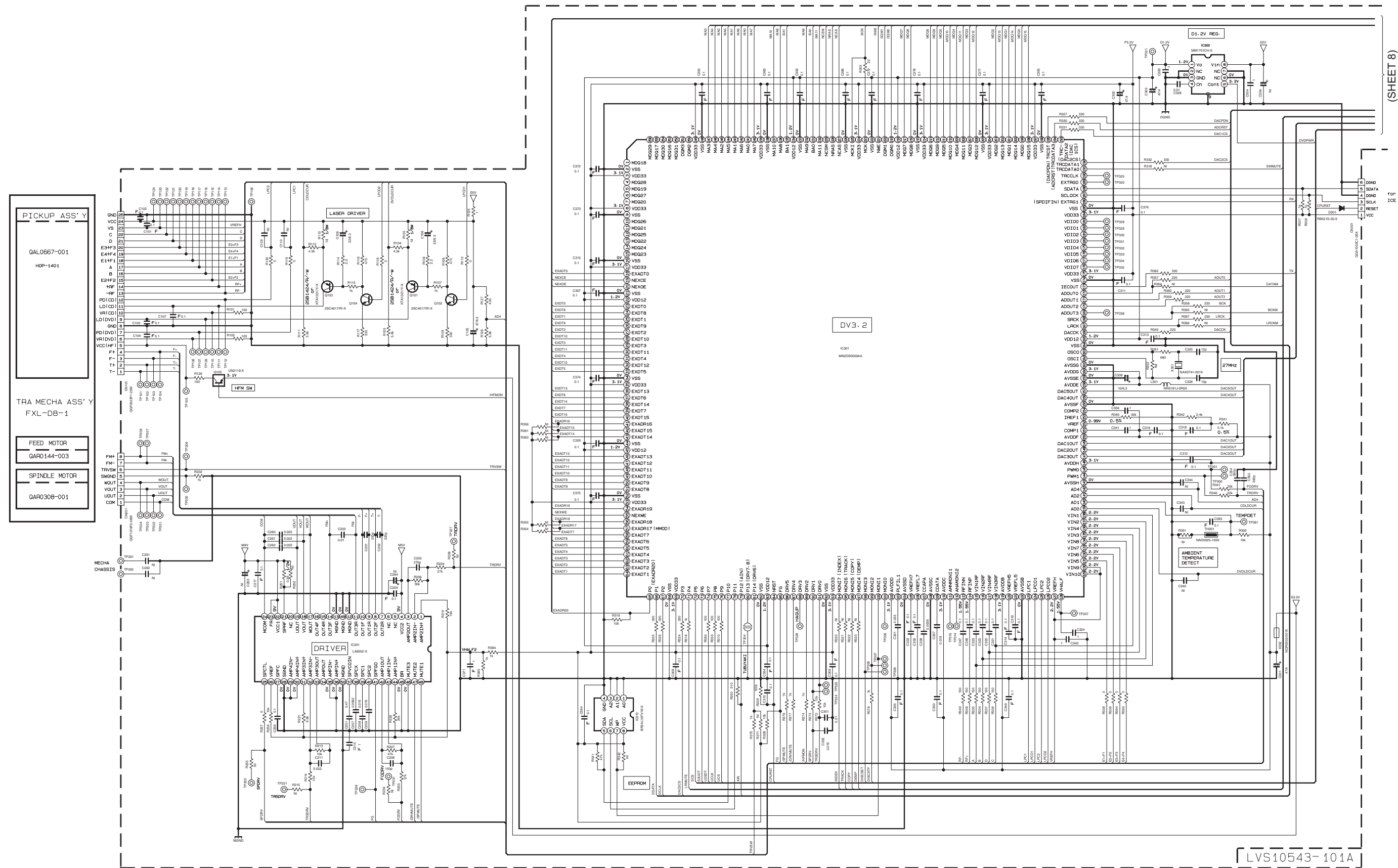
■ Tape A playback section



■ Tape B record and playback section



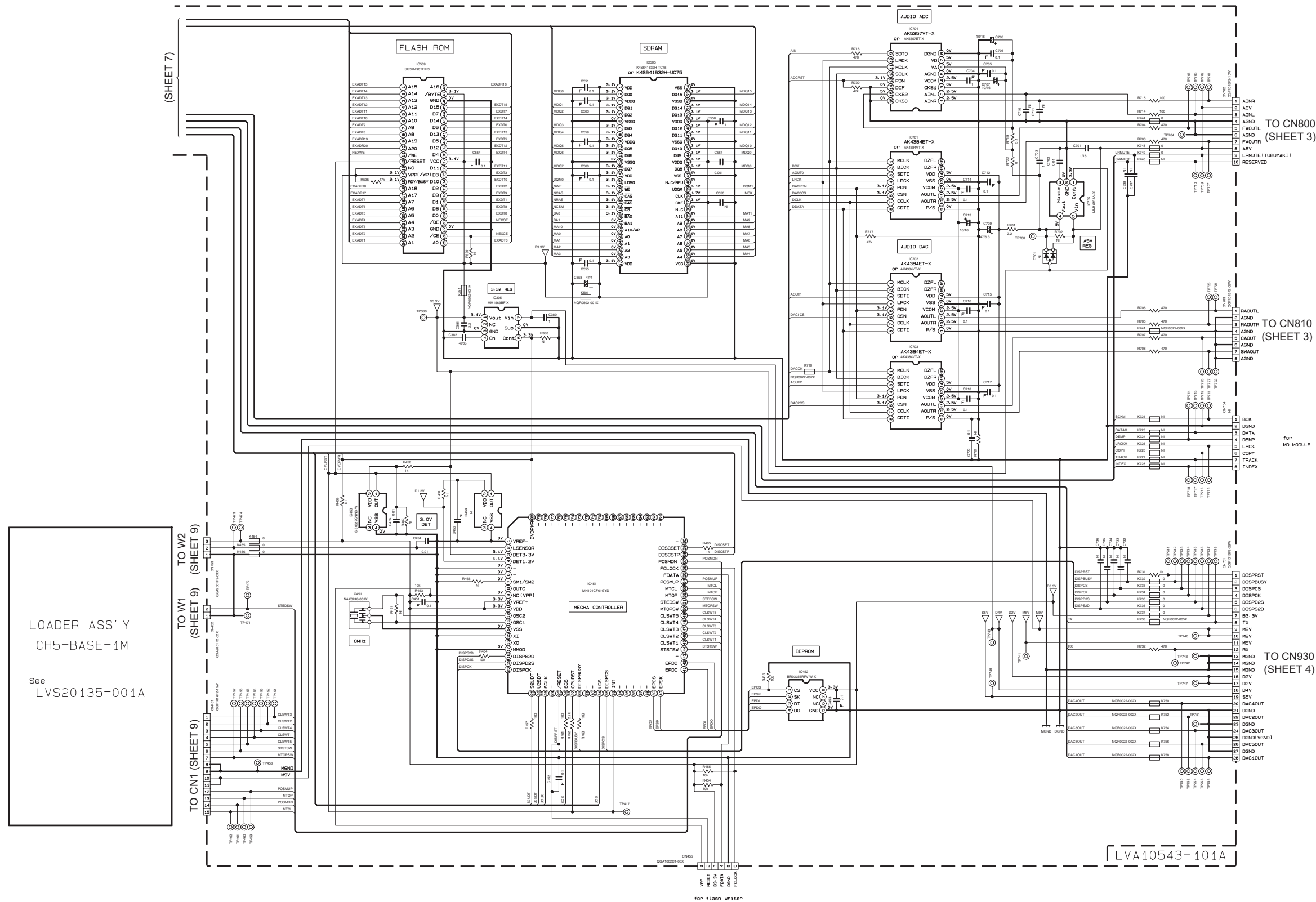
■ DVD servo and system control section (1/2)



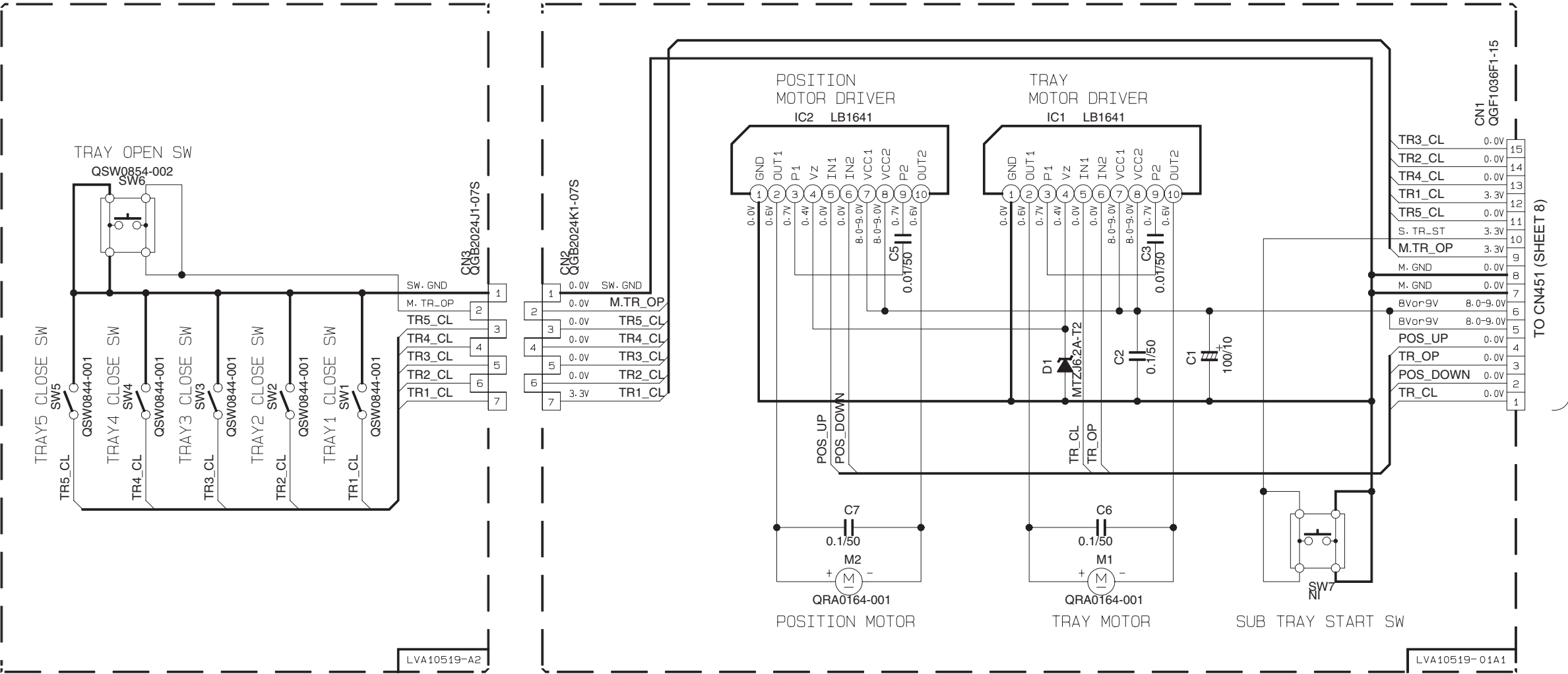
(SHEET 8)

SHEET 7

■ DVD servo and system control section (2/2)



■ DVD tray control section



NOTES

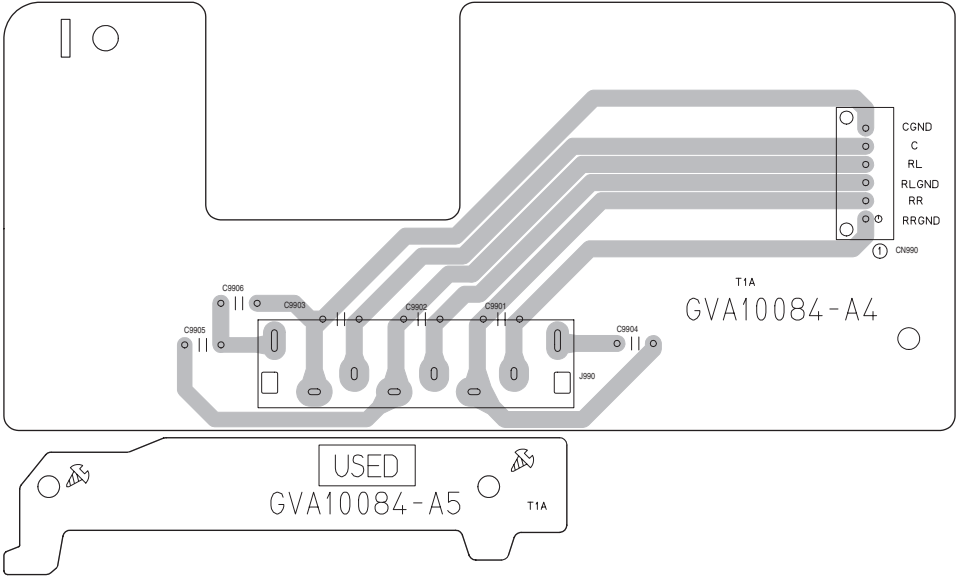
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
CONDITION: DISC1 STOP
2. UNLESS OTHERWISE SPECIFIED.
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
3. NI STANDS FOR NOT INSERTED PARTS.

Printed circuit boards (For DX-T9)

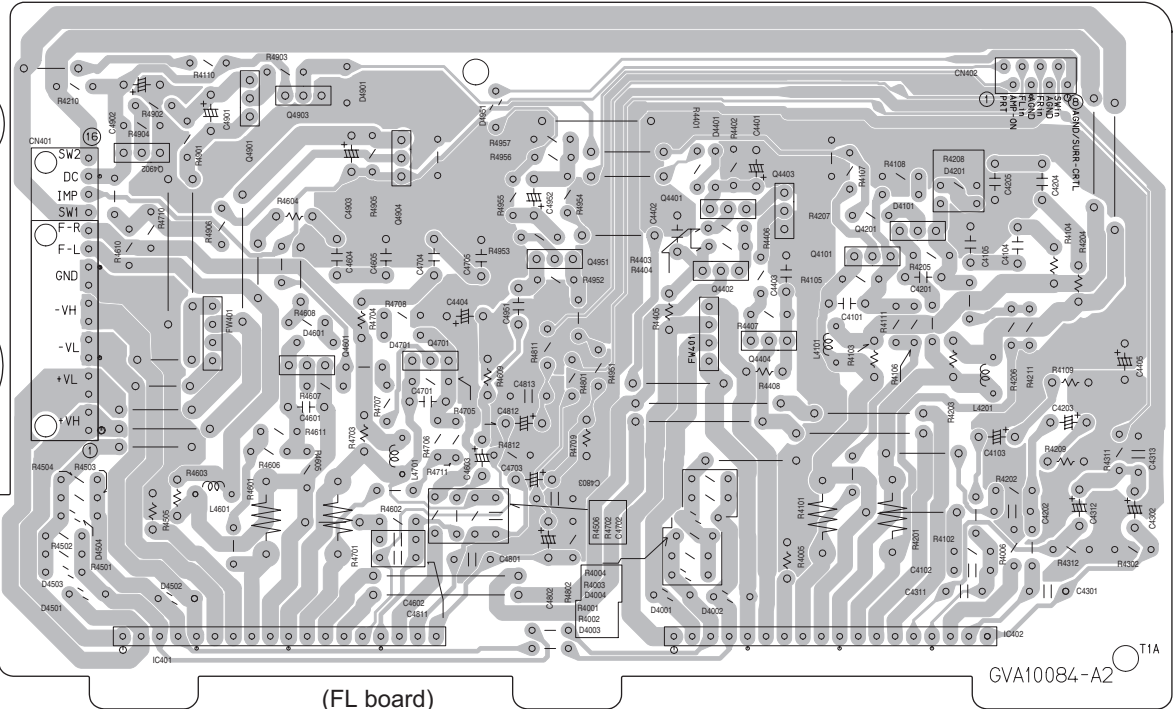
Amplifier board

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

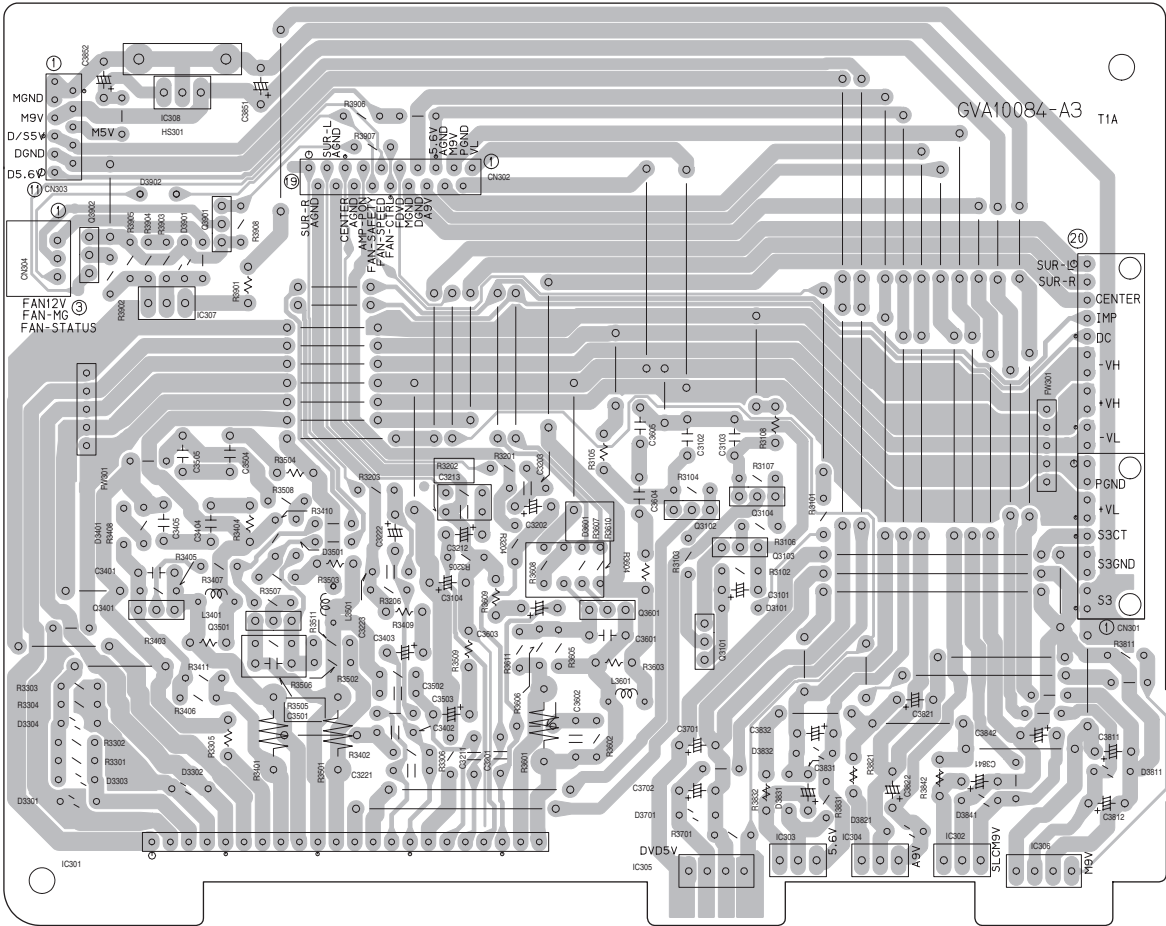
(Surround terminal board)



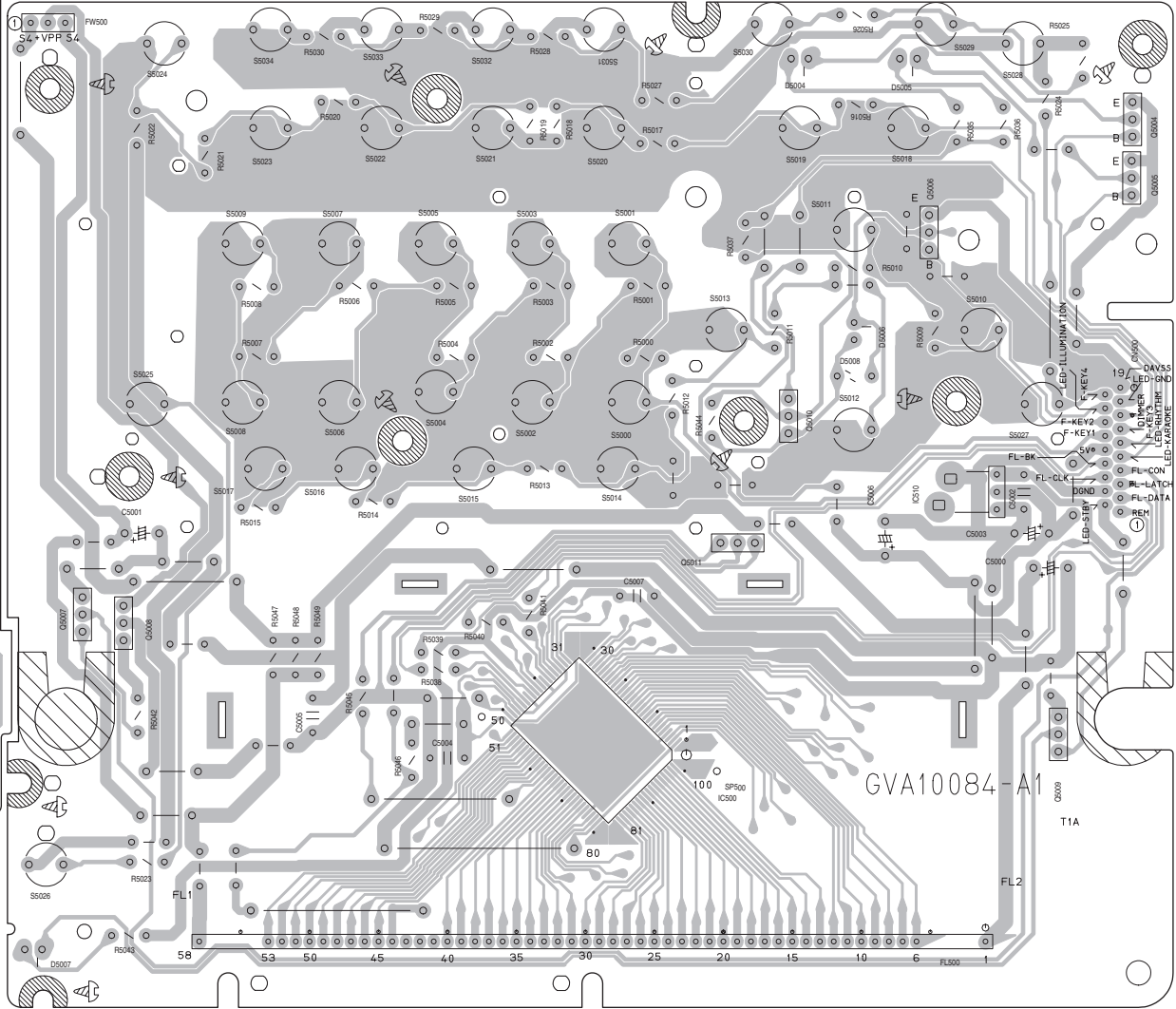
(Amplifier 2 board)



(Amplifier 1 board)



(FL board)

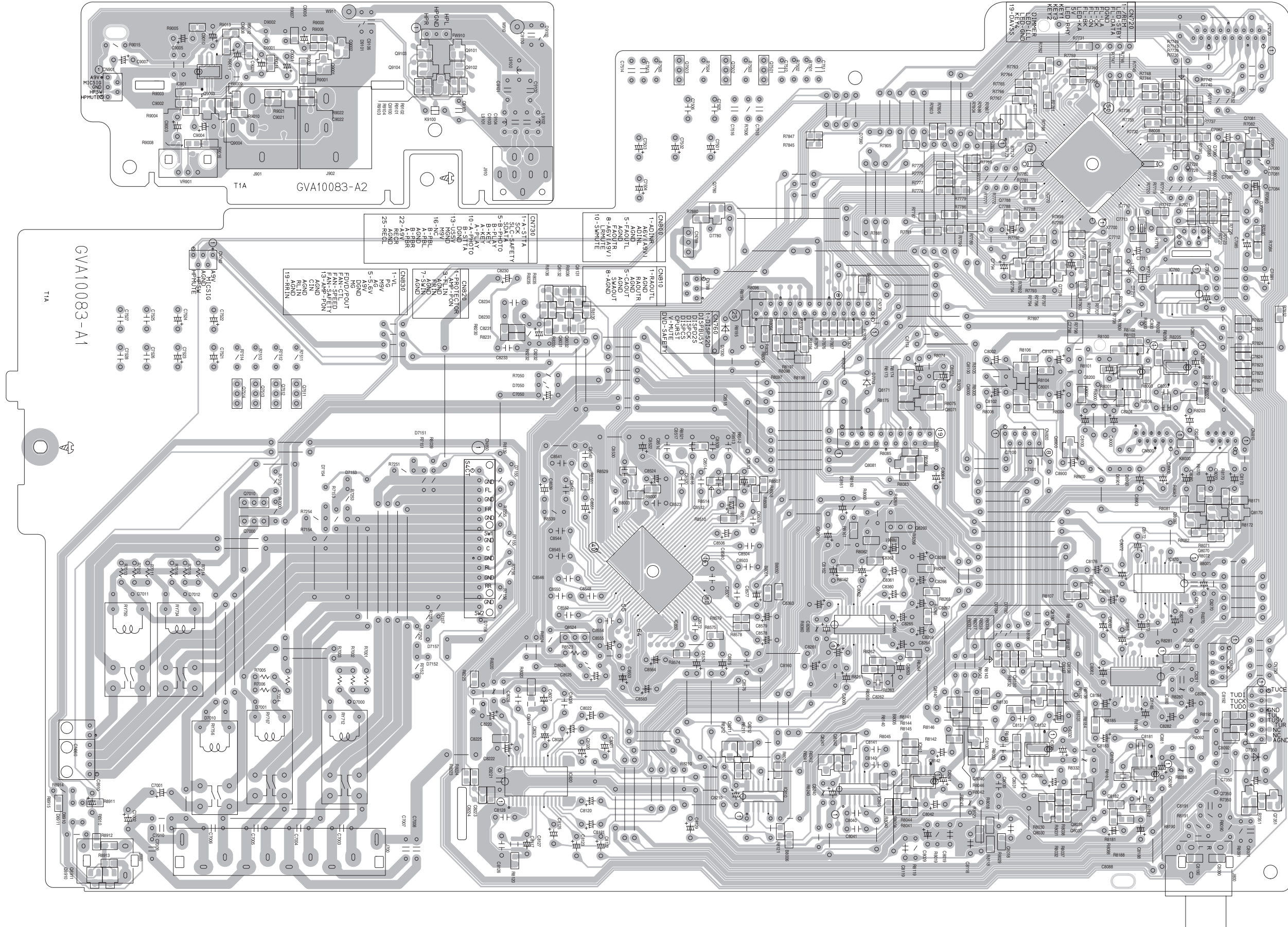


■ Main board

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

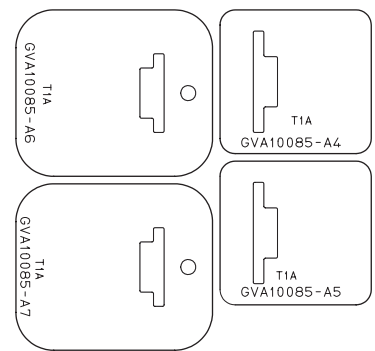
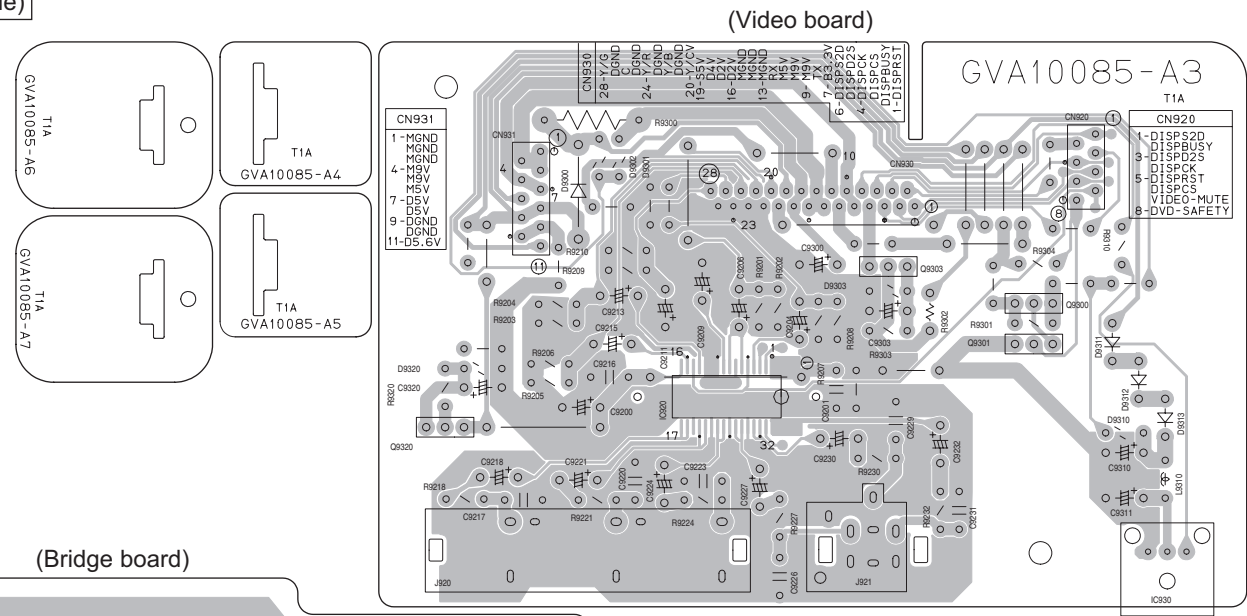
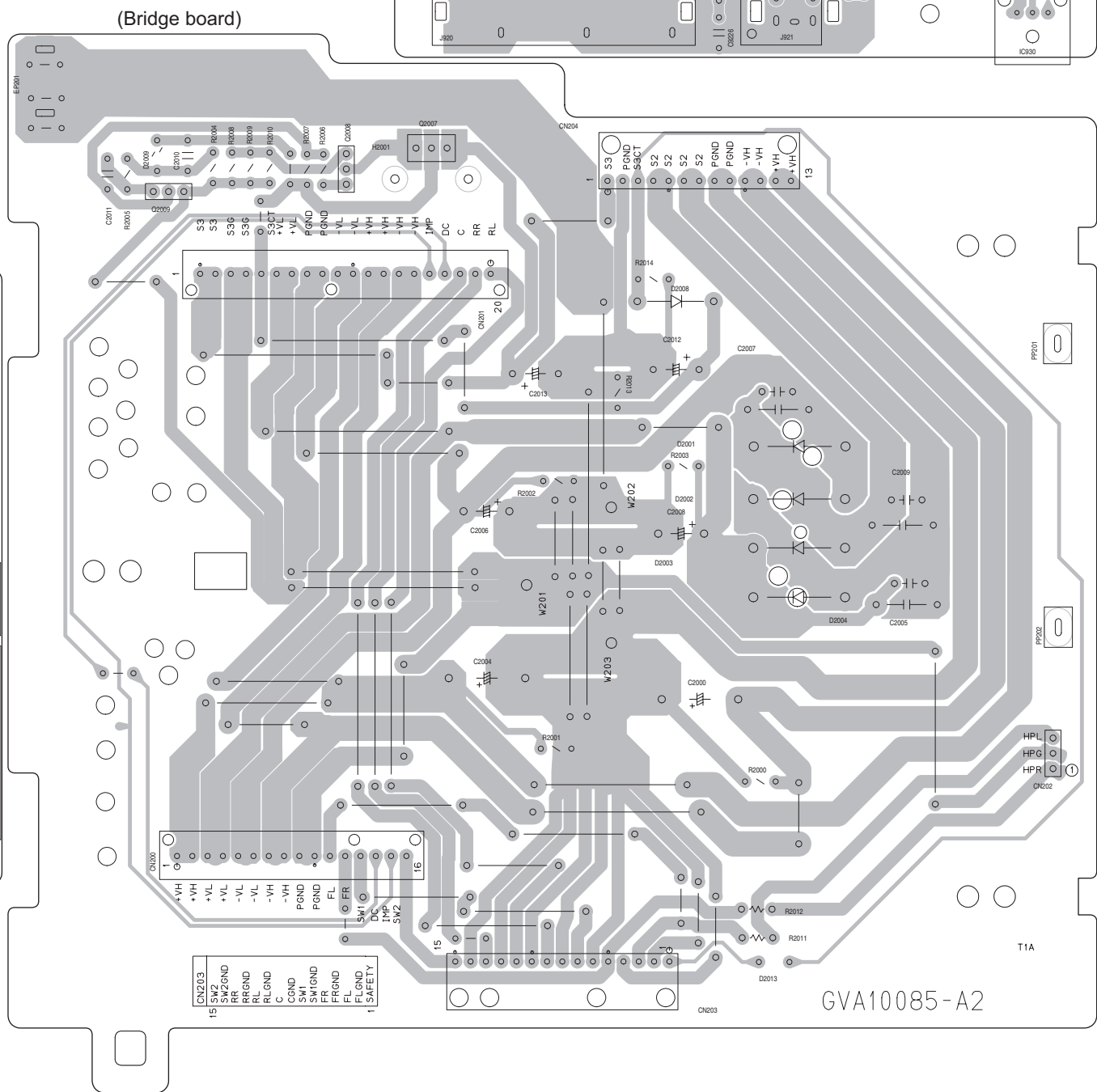
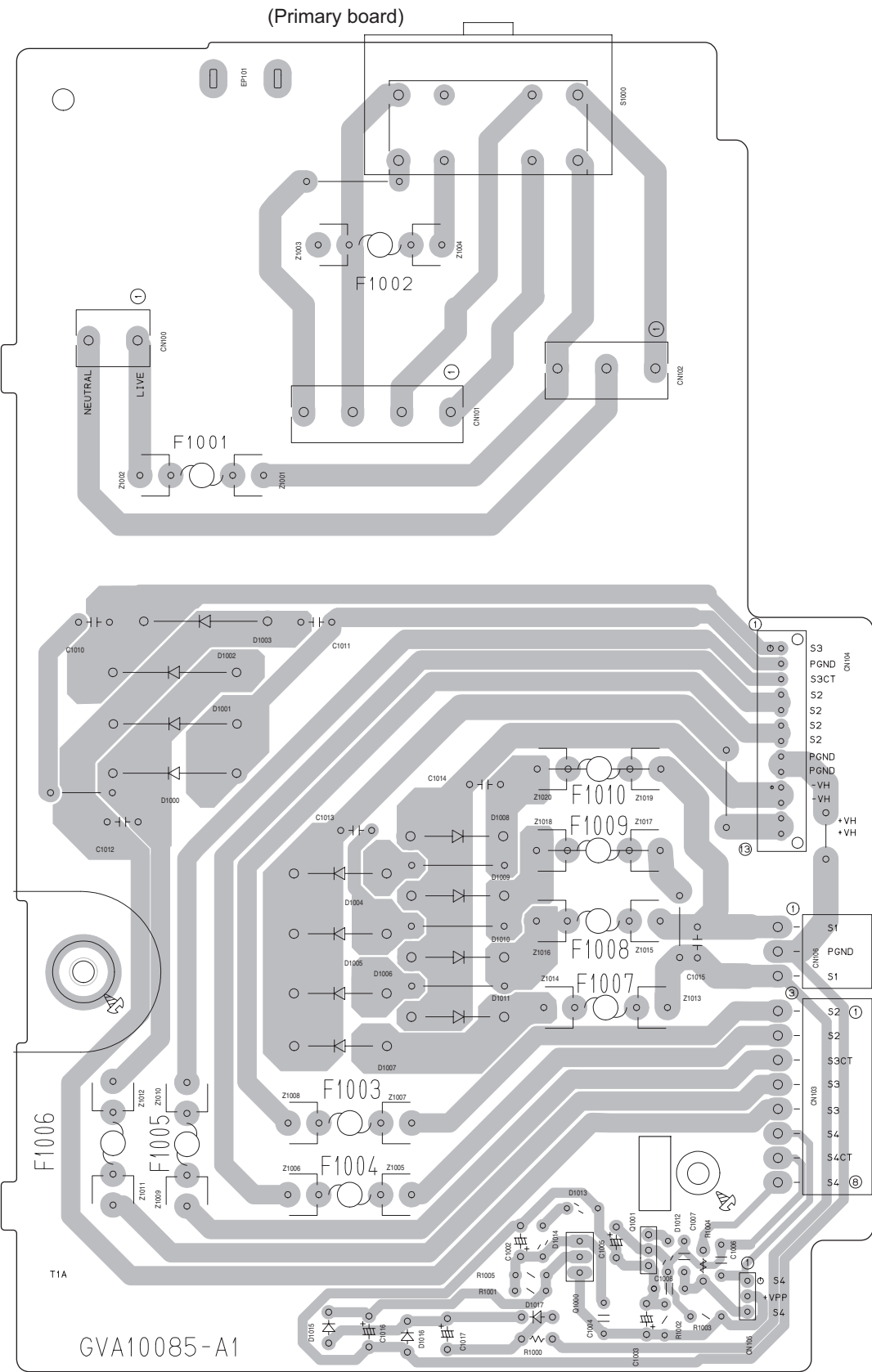
(Microphone amplifier board)

(Main board)



Primary board

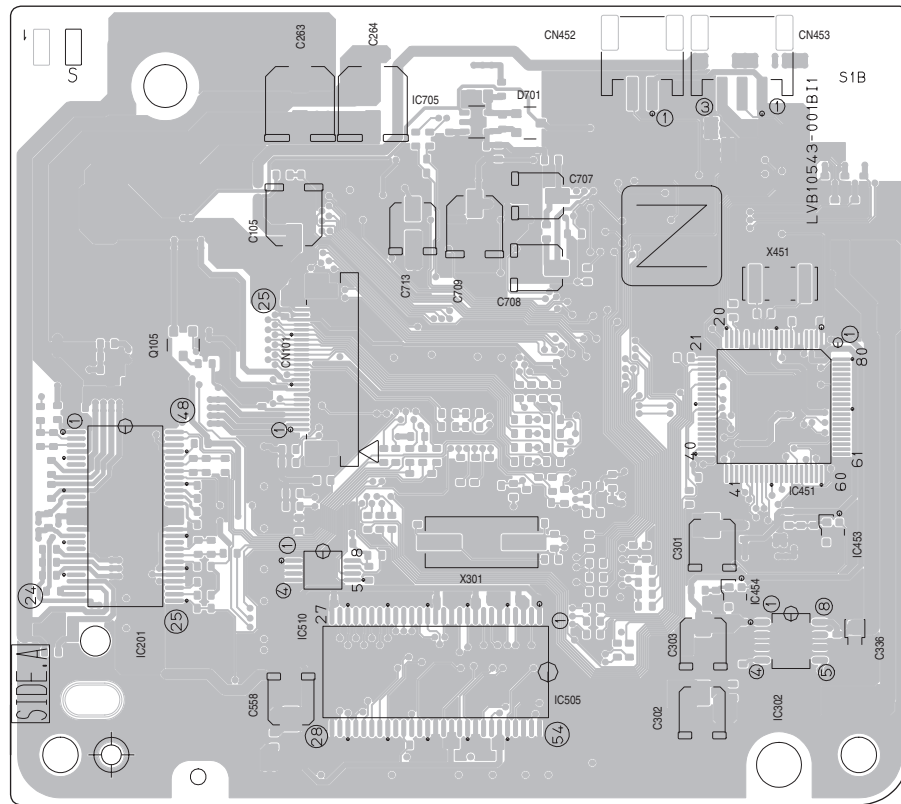
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



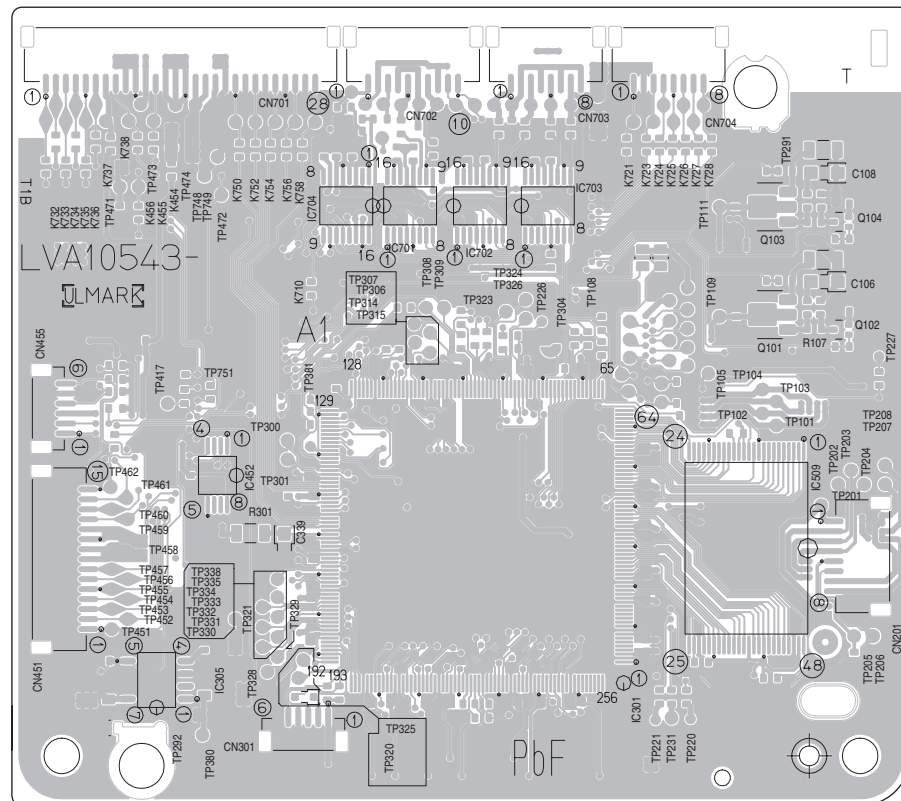
■ DVD servo board

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

Forward side



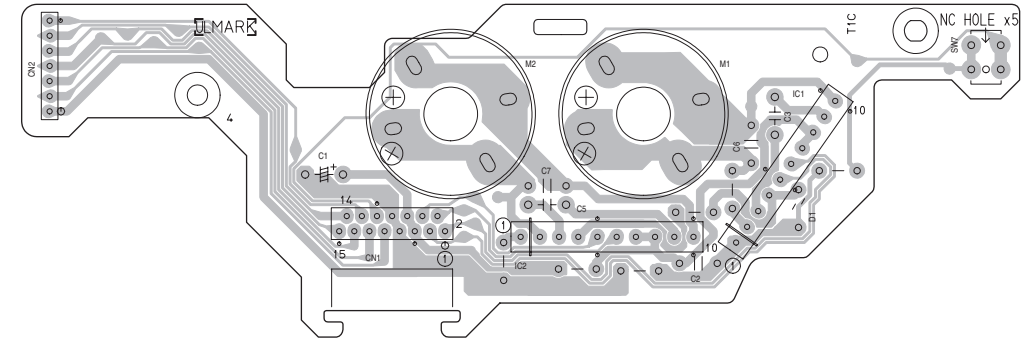
Reverse side



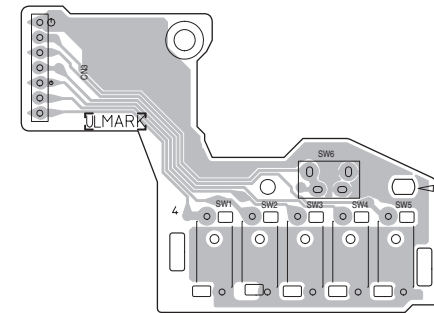
■ Loading board

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

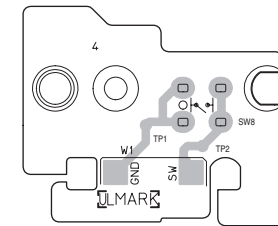
(Motor board)



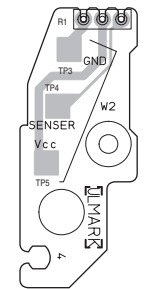
(Tray switch board)



(Switch board)

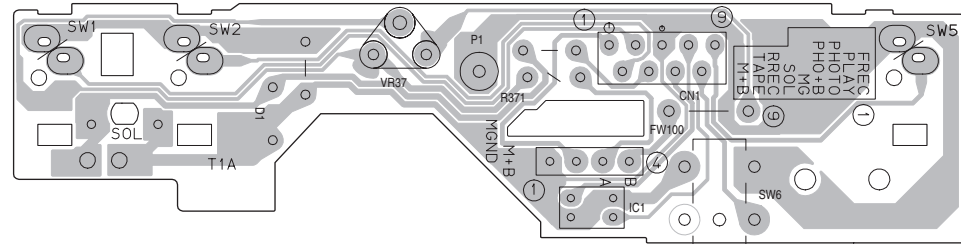


(Sensor board)



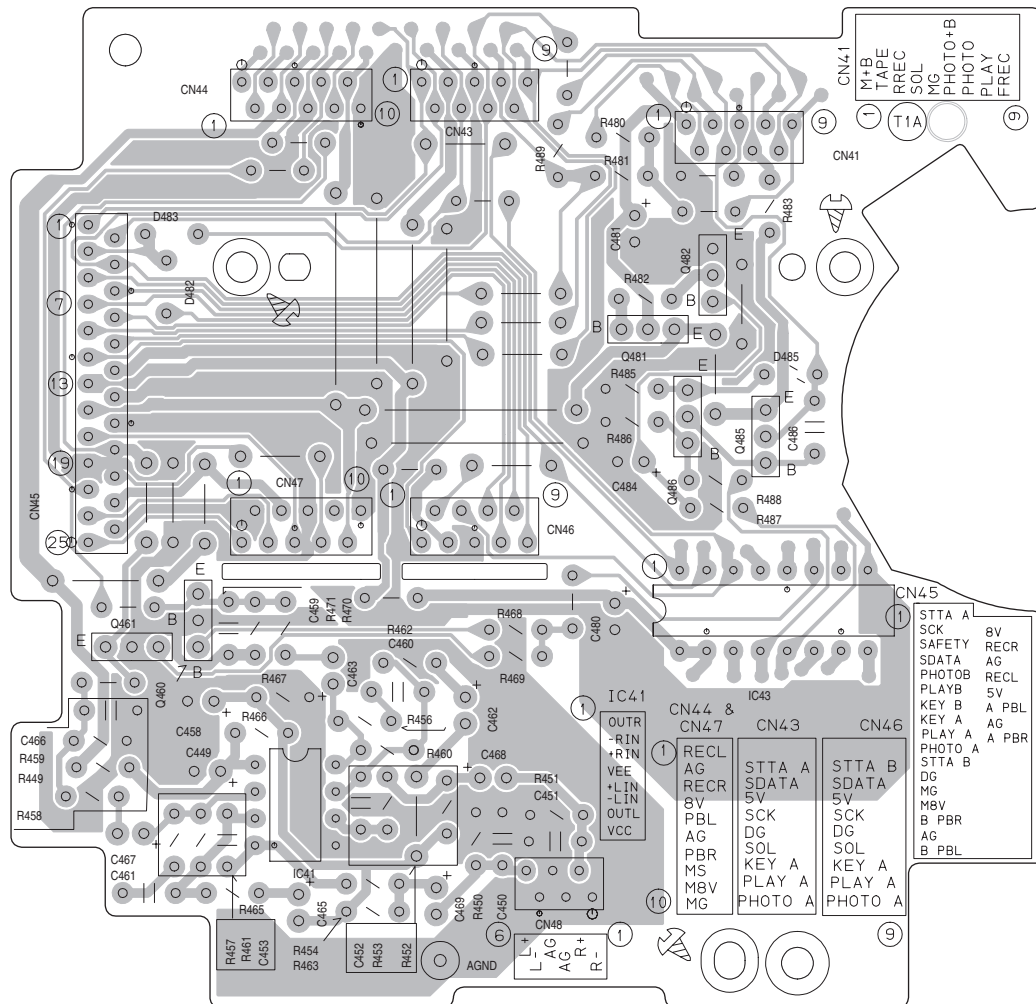
■ **Cassette switch board (For A cassette)**

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



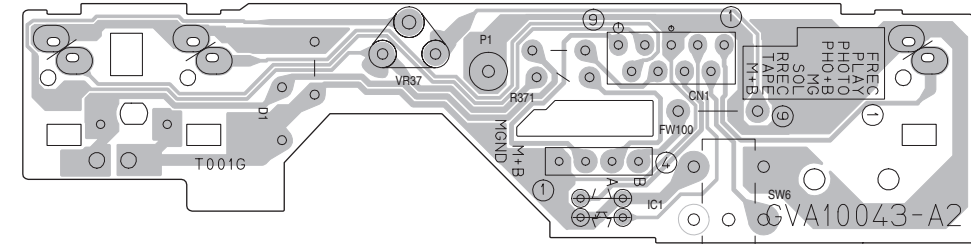
■ Head amplifier board (For A cassette)

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



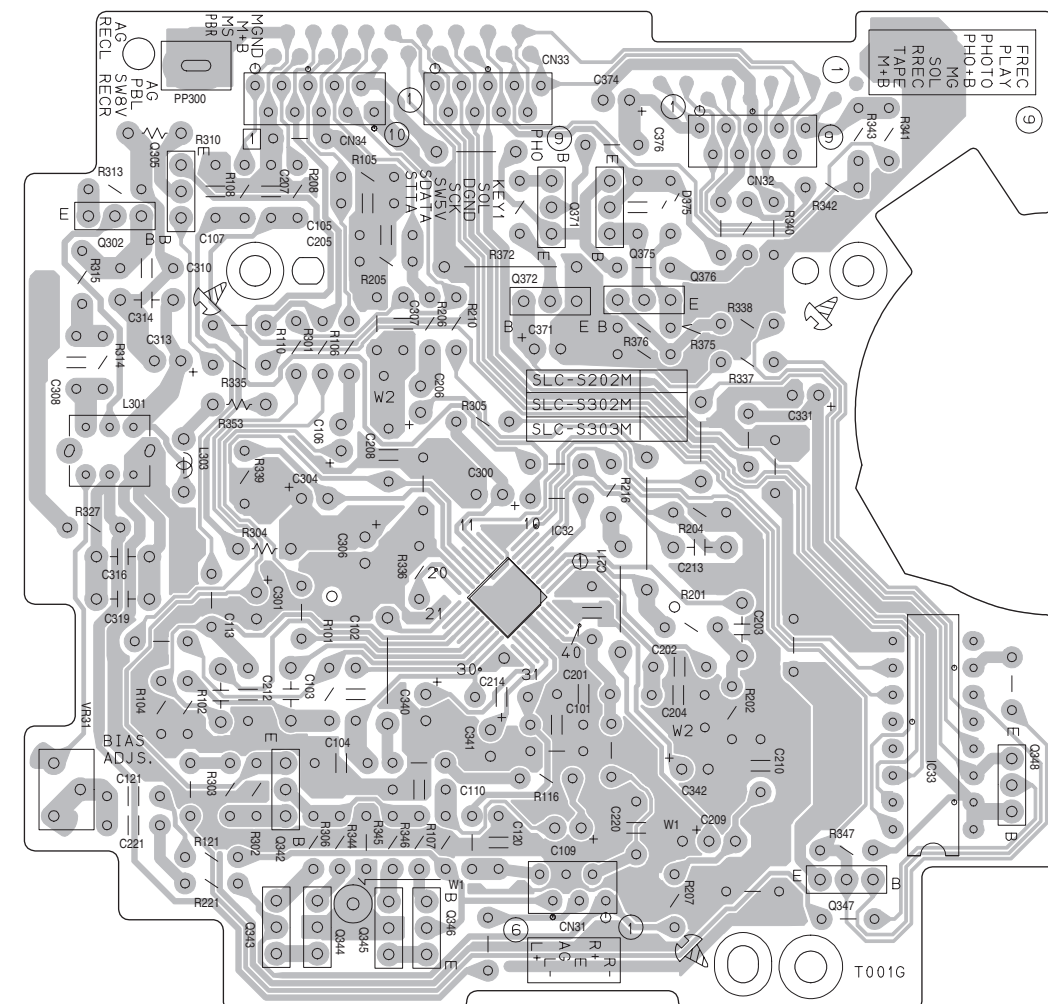
■ **Cassette switch board (For B cassette)**

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

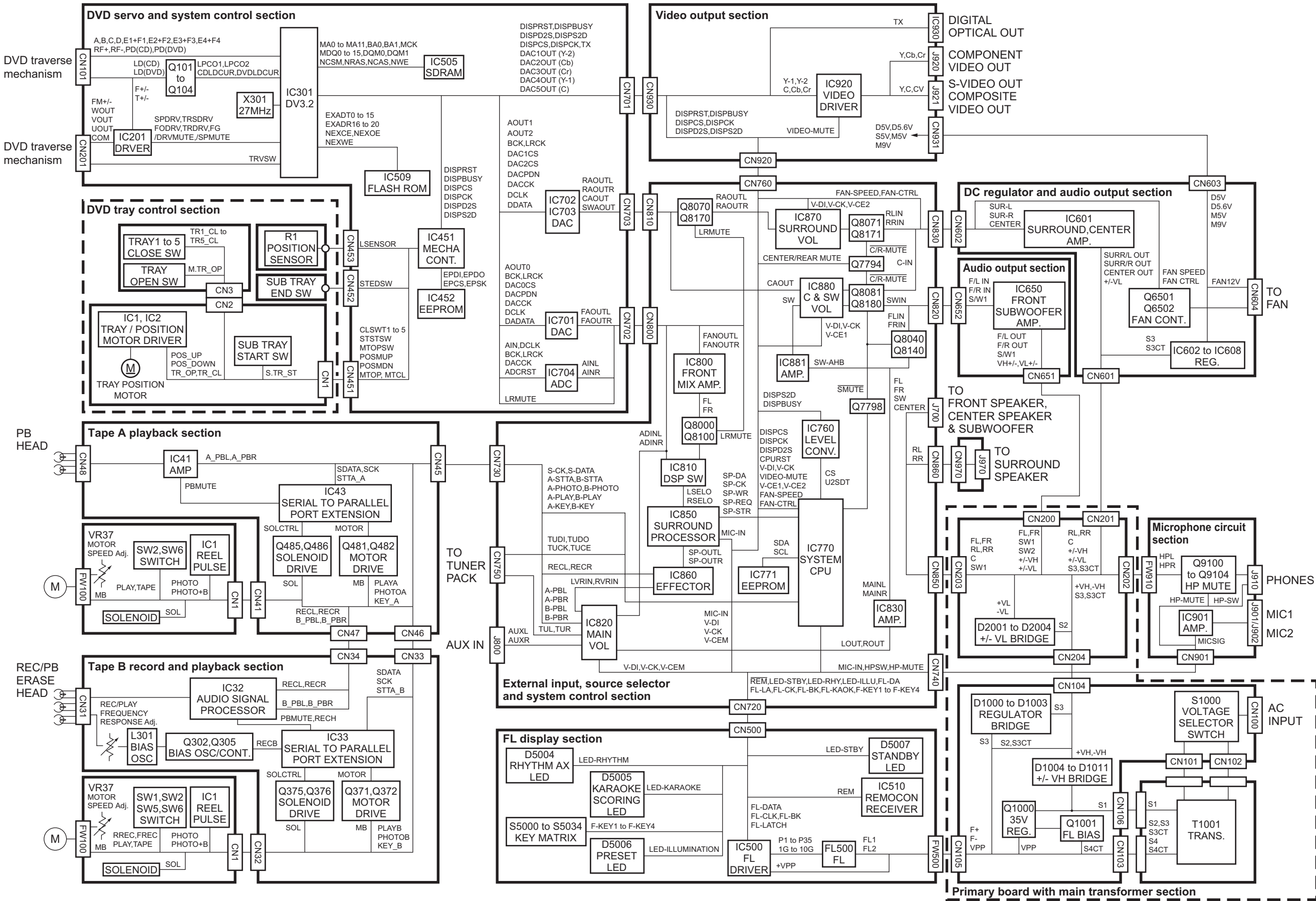


■ Head amplifier board (For B cassette)

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

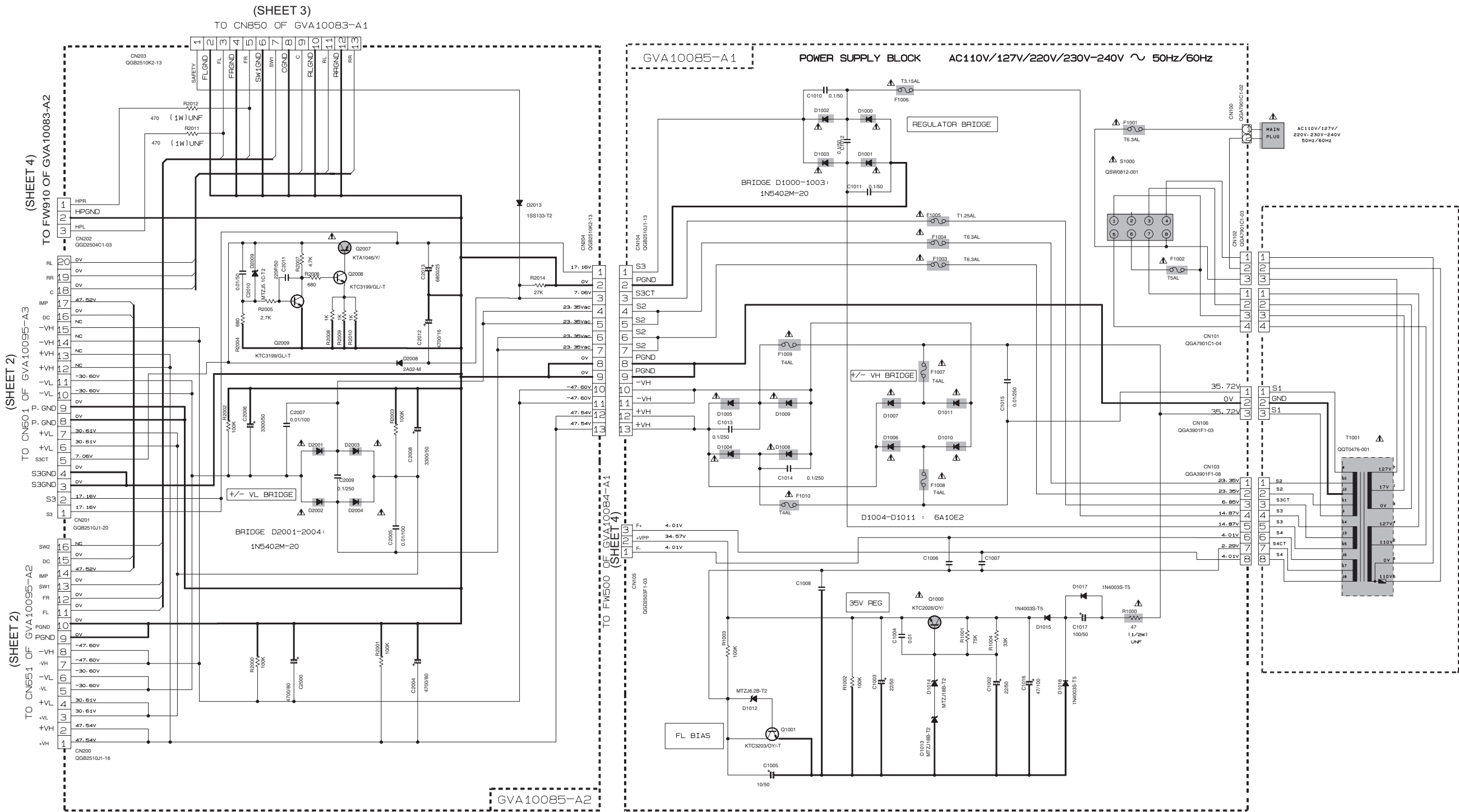


Block diagram (For DX-T7)



Standard schematic diagrams (For DX-T7)

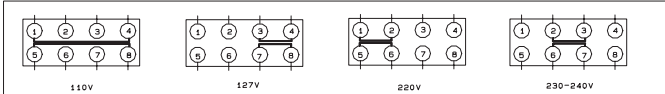
Primary board with main transformer section



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- AUX MODE. VOL. MIN. BASS OFF
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 (μF).
ALL INDUCTANCE VALUES ARE IN mH (mH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS119-041-T2

VOLTAGE SELECTOR LOCATION



EXPLANATION OF OVERALL SCHEMATIC

SHEET NUMBER	
1	PRIMARY BOARD WITH MAIN TRANSFORMER
2	DC REGULATOR/AUDIO OUTPUT
3	EXTERNAL INPUT, SOURCE SELECTOR SYSTEM CONTROL
4	VIDEO OUTPUT, MIC CIRCUIT, FL DISPLAY, USER CONTROL KEYS
5	TAPEA-SLC-S401M, PLAYBACK ONLY.
6	TAPEB-SLCS302M, RECORD PLAYBACK.
7	DVD SERVO AND SYSTEM CONTROL (1/2)
8	DVD SERVO AND SYSTEM CONTROL (2/2)

MODEL VERSIONS

DX-T5: UW, UY, US, UN, UX, UG

DX-T7: US, UN, UX, UG, UW, A

DX-T9: UW, US, UN, UX, A, UG

COUNTRY CODES

UW - SOUTH AMERICA
UY - ARGENTINA
US - SINGAPORE
UN - INDONESIA
UX - SAUDI ARABIA
A - AUSTRALIA
UG - EGYPT, SOUTH AFRICA, TURKEY

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

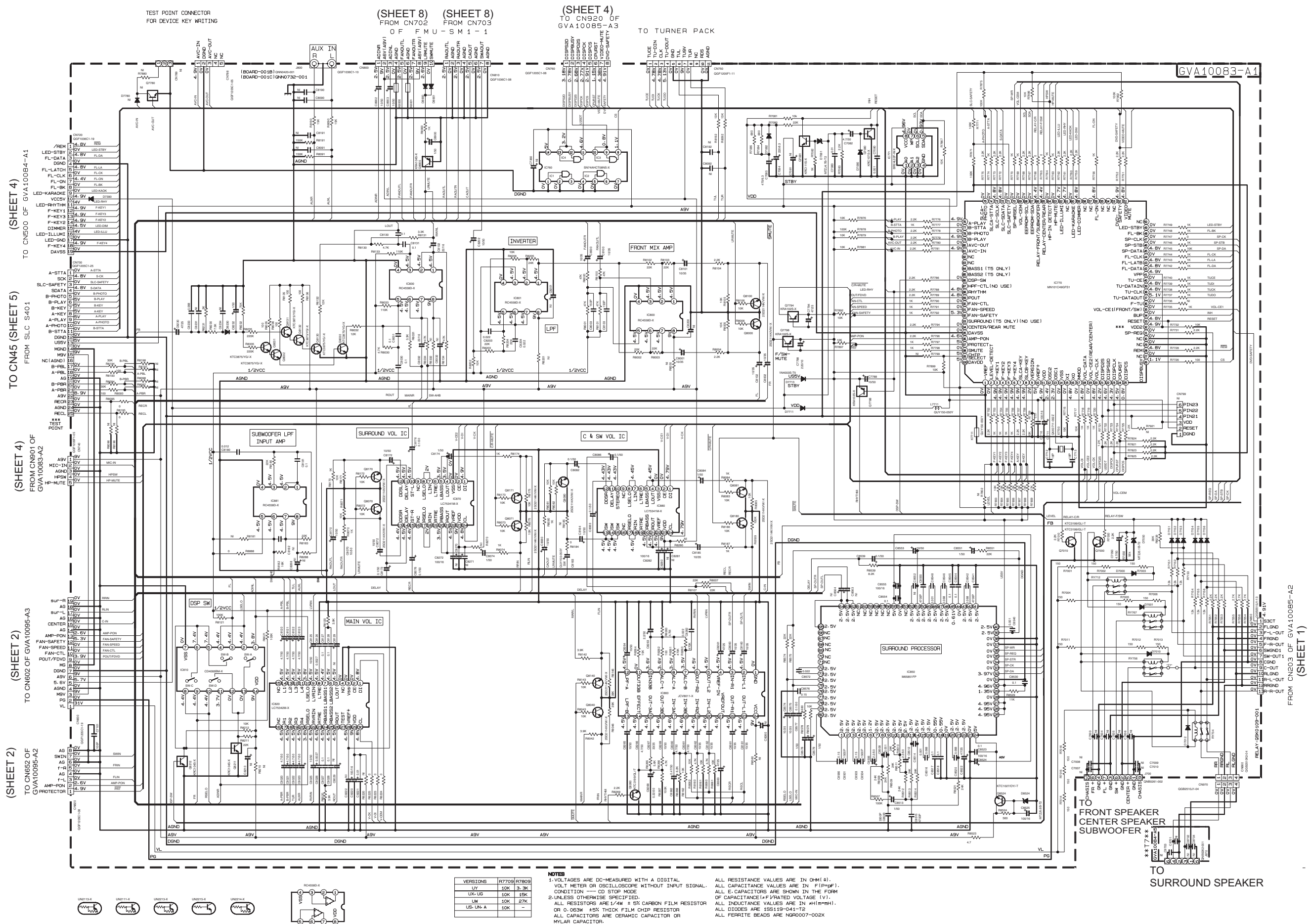


NOTES

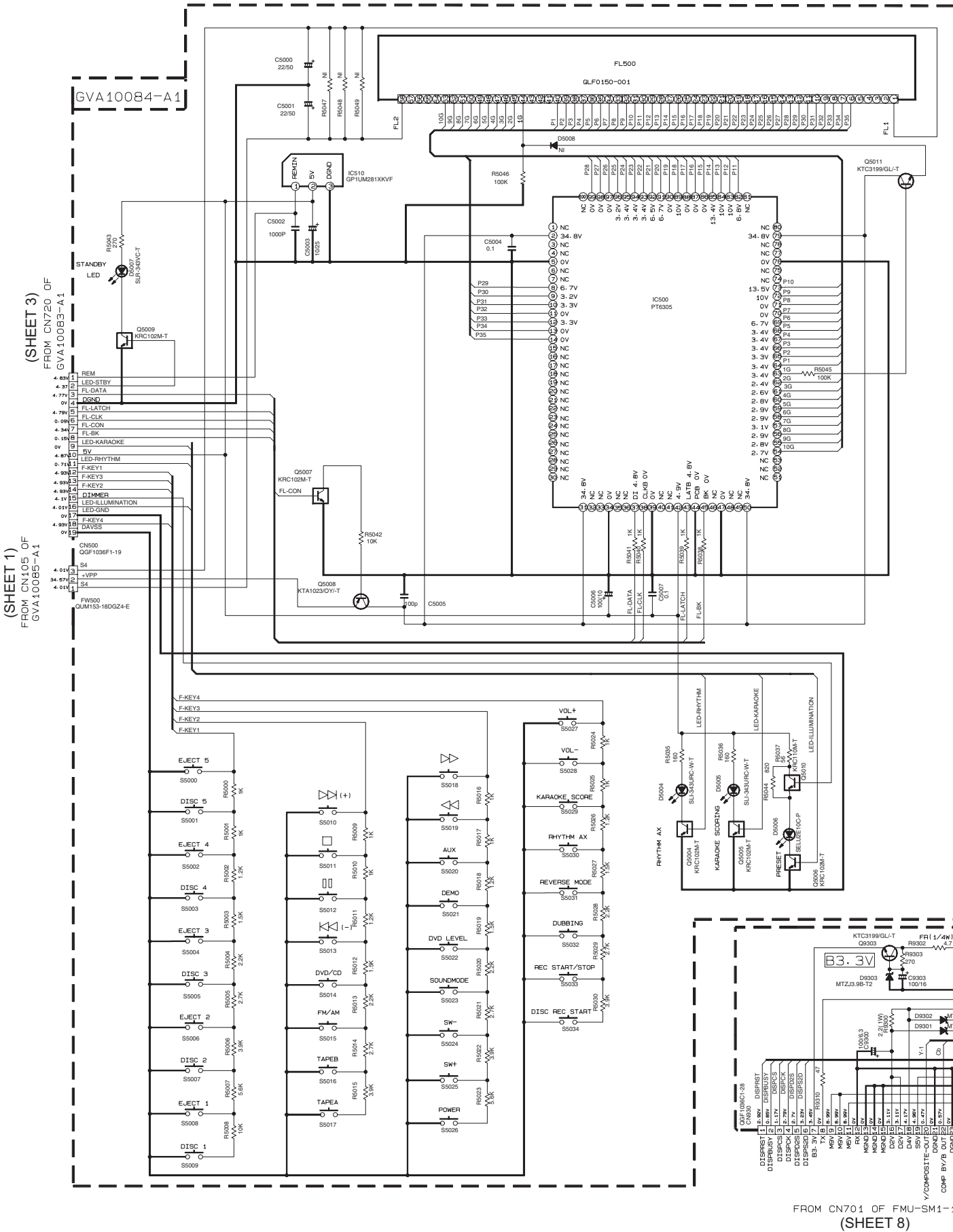
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION — AUX MODE: VOL MIN- BASS OFF
2. UNLESS OTHERWISE SPECIFIED
RESISTORS ARE 1/4W ± 5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN nF (nF).
ALL INDUCTANCE VALUES ARE IN mH (mH).
E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (nF)/RATED VOLTAGE (V).
ALL DIODES ARE: 1SS119-041-T2

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

External input, source selector and system control section

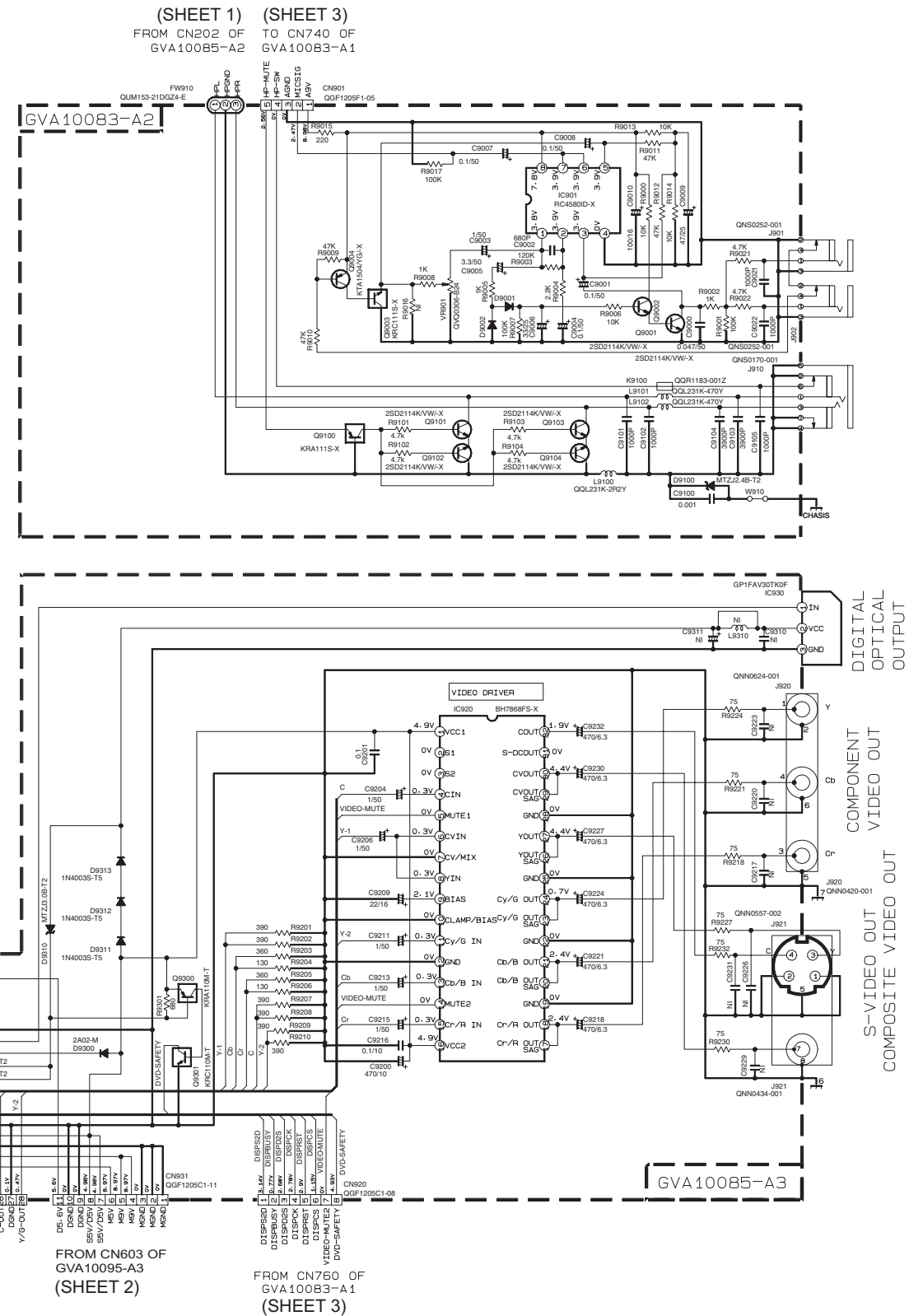


■ Video output, microphone circuit, FL display and user control keys section

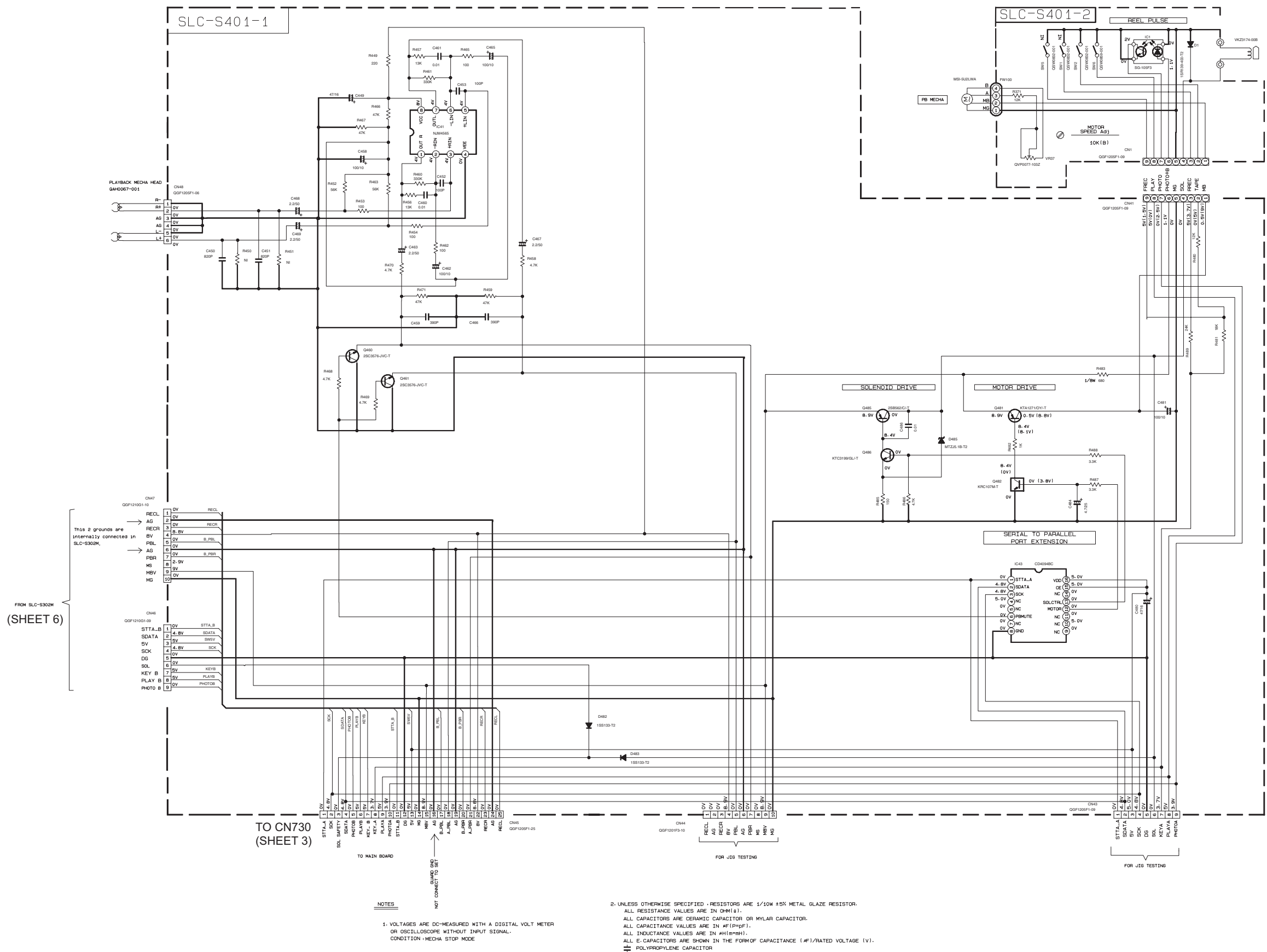


NOTES

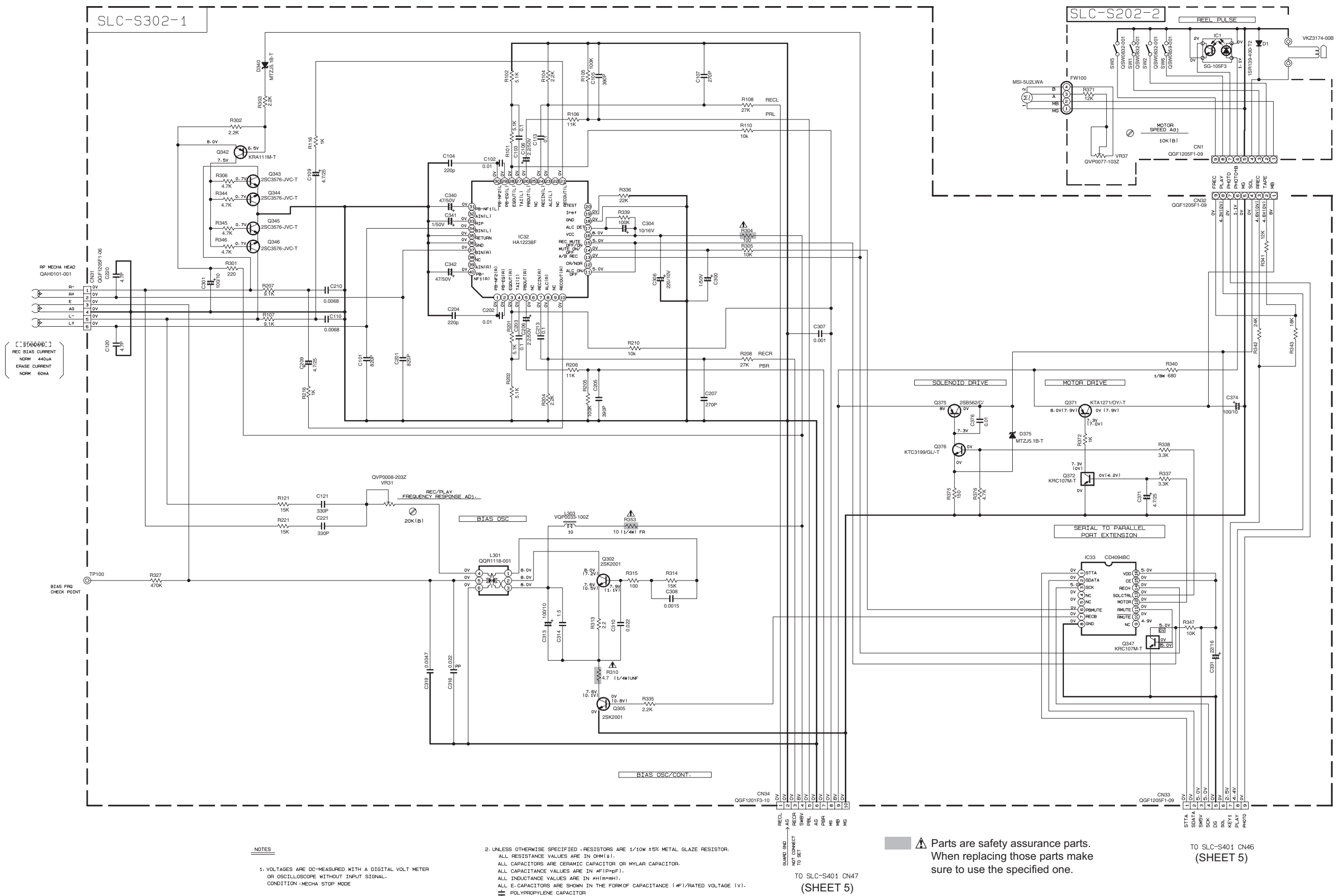
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- AUX MODE, VOL MIN, BASS OFF
2. UNLESS OTHERWISE SPECIFIED
RESISTORS ARE 1/4W±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN nF(=10⁻⁹F).
ALL INDUCTANCE VALUES ARE IN mH(=10⁻³H).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (nF)/RATED VOLTAGE (V).
ALL DIODE ARE 1SS133-T2
ALL TACT SWITCH ARE QSW0674-001Z



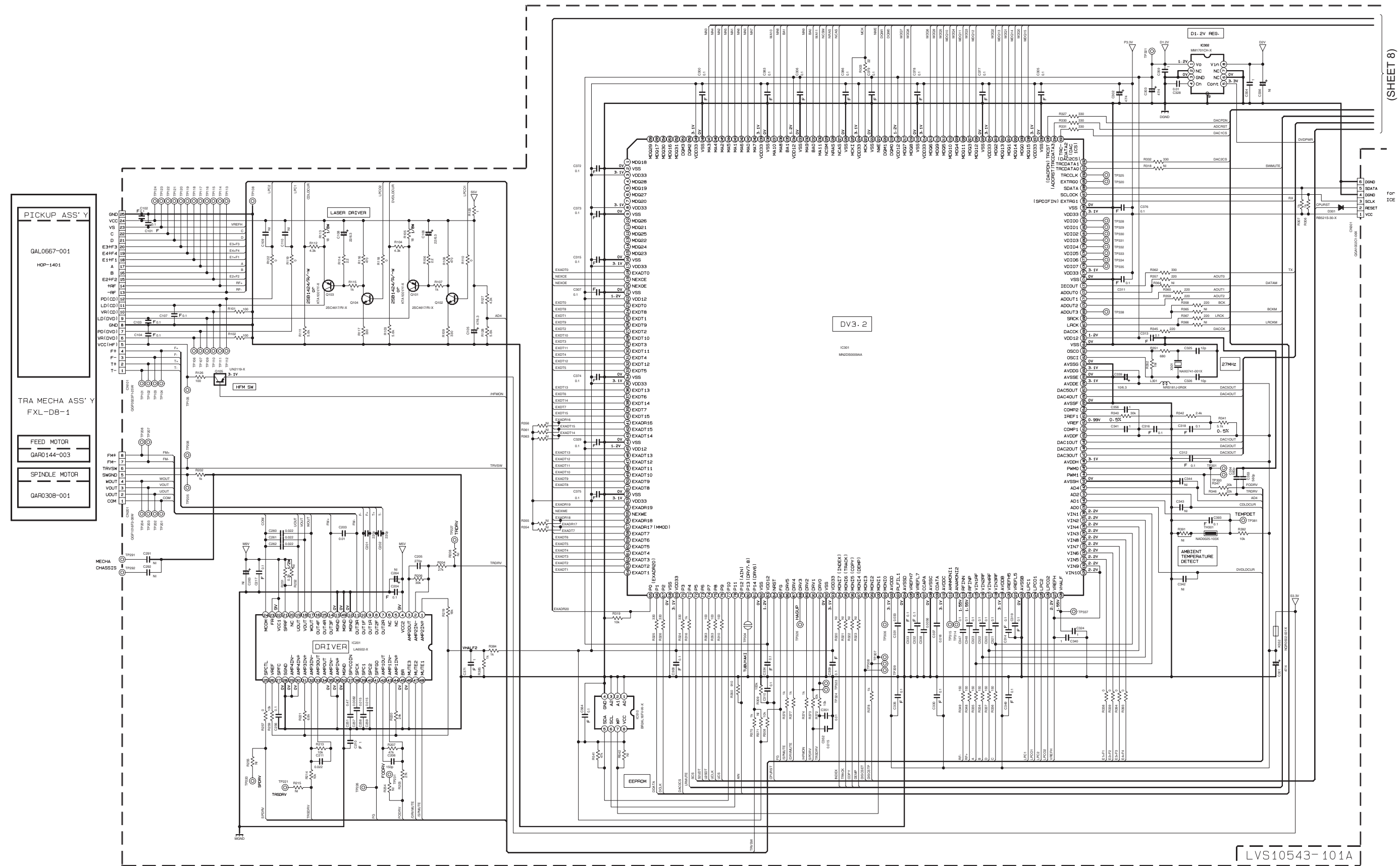
■ Tape A playback section



■ Tape B record and playback section

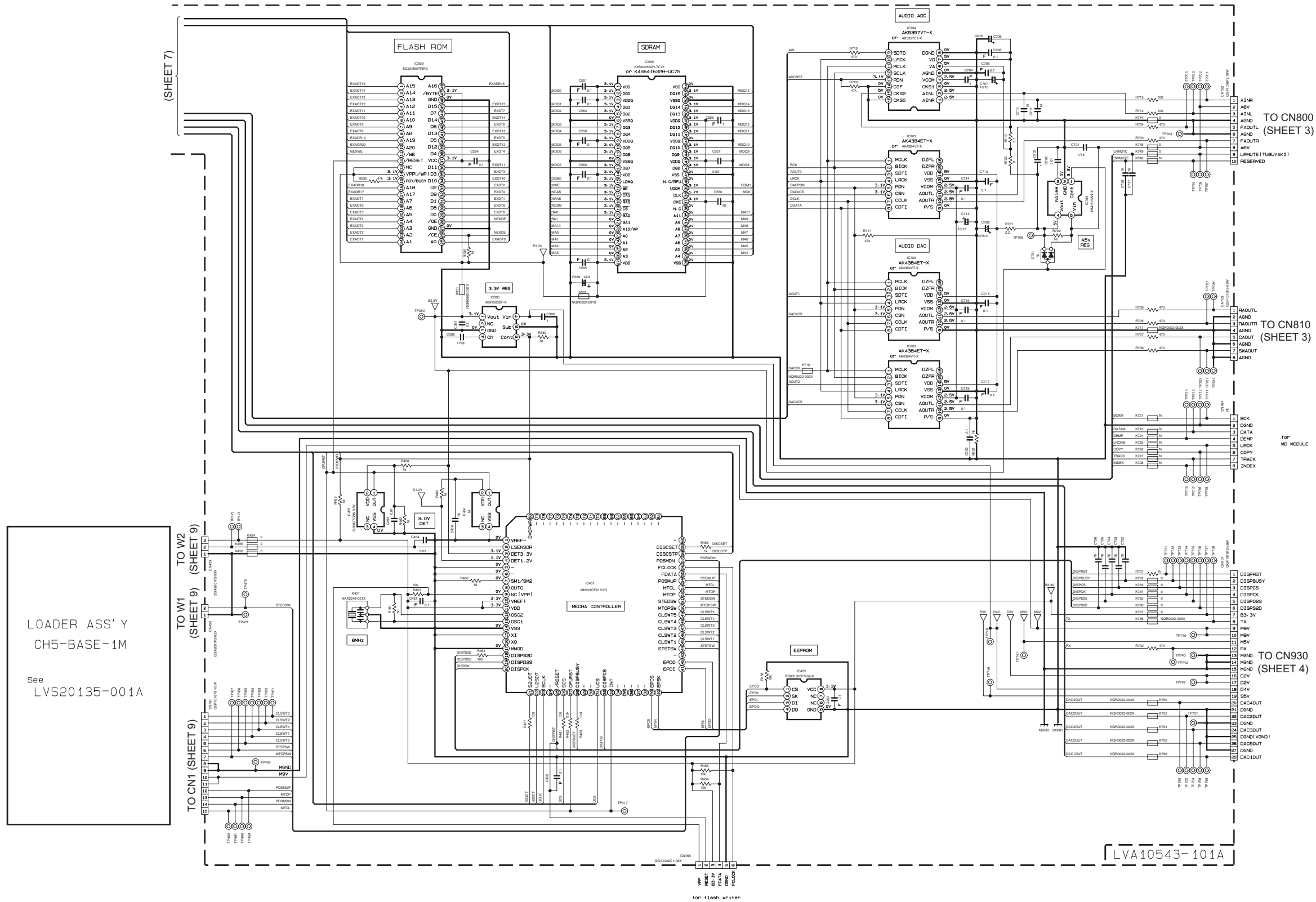


■ DVD servo and system control section (1/2)



(SHEET 8)

■ DVD servo and system control section (2/2)



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, 10V, 10V OR 6.3V CERAMIC CAPACITOR.

ALL RESISTANCE VALUES ARE IN Ω [m] Ω .

ALL CAPACITANCE VALUES ARE IN μ F [n]pF.

ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μ F)/RATED VOLTAGE (V).

ALL INDUCTANCE VALUES ARE IN μ H [m]mH.

3. NI STANDS FOR NOT INSERTED PARTS.

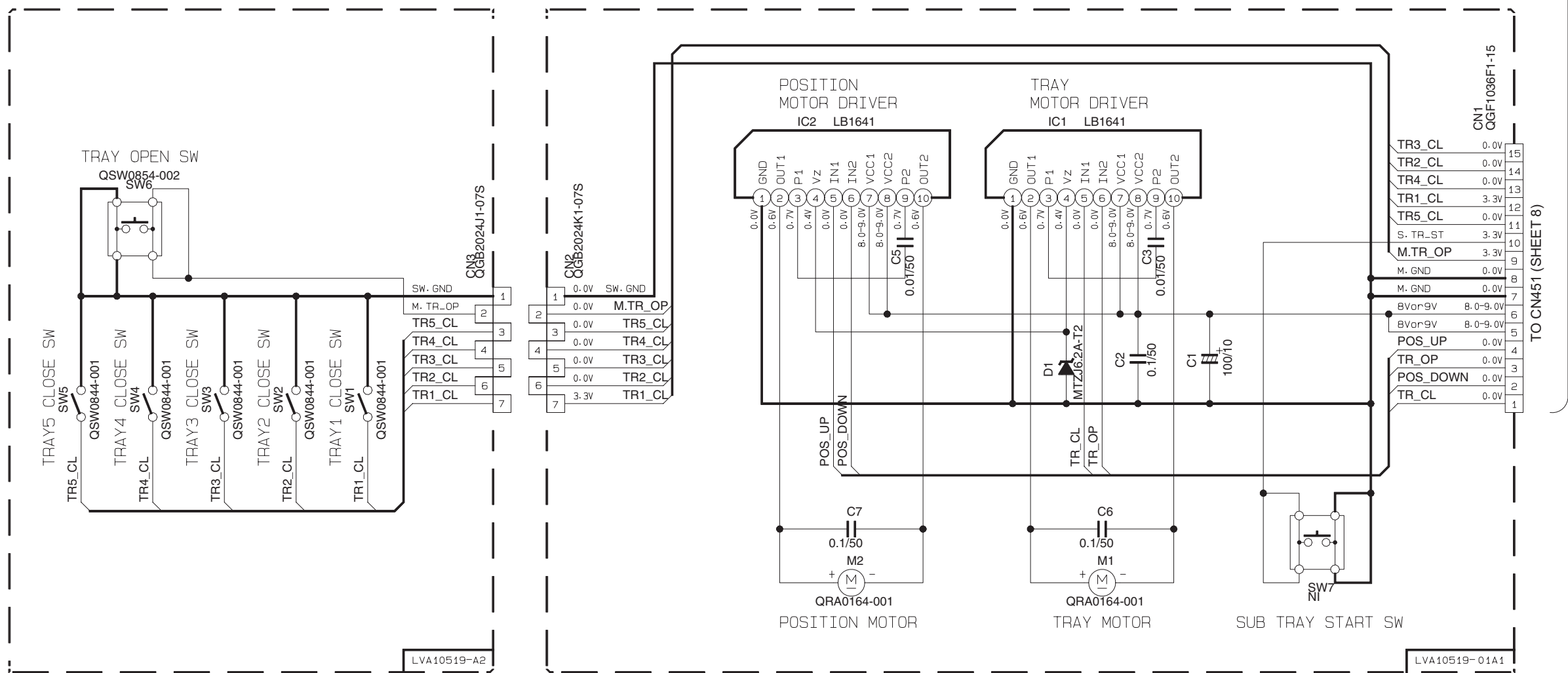
4. DIGITAL TRANSISTOR

UN2119-X

10k

1k

■ DVD tray control section



TO POWER AND MECHA CONTROL MICOM

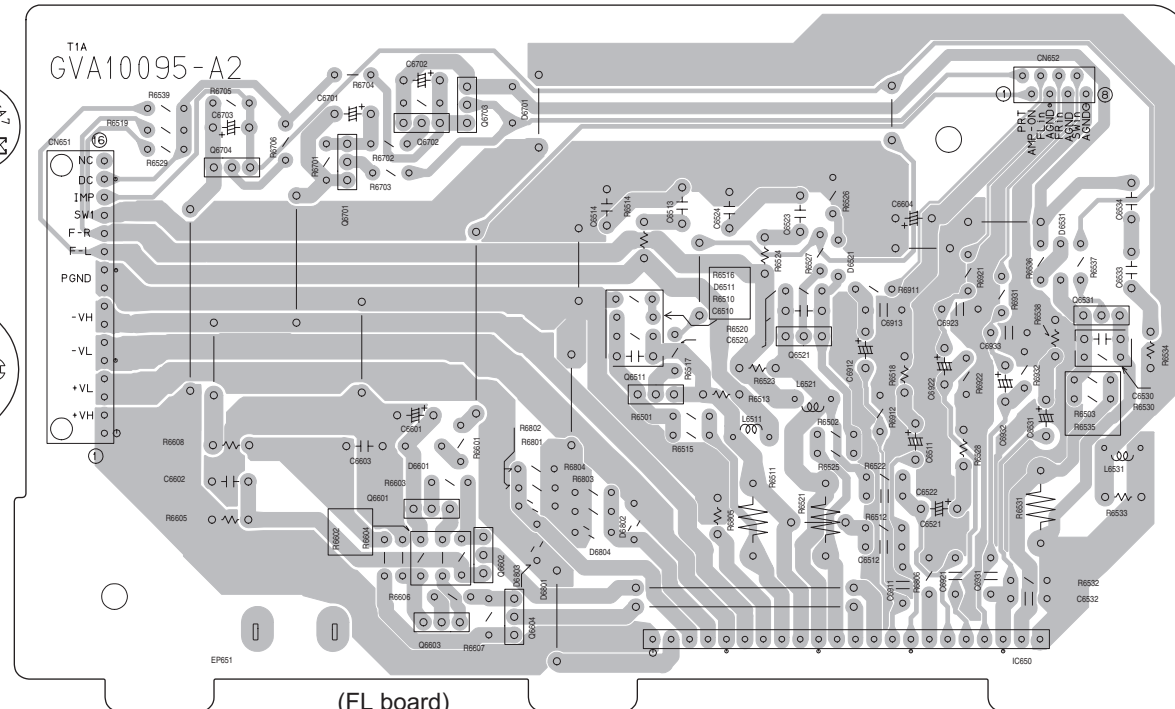
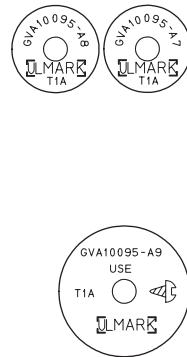
NOTES

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.

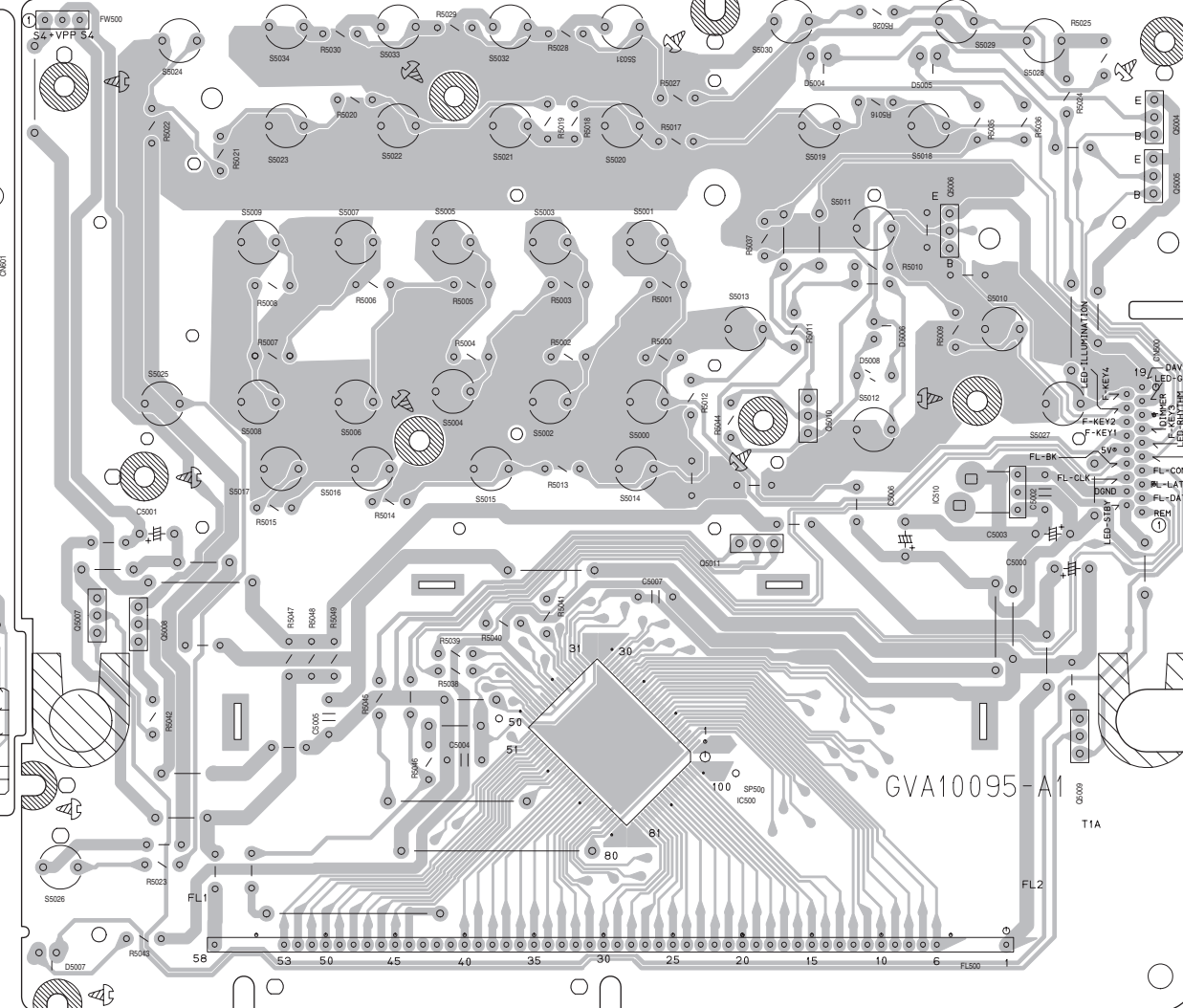
■ **Amplifier board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

(Amplifier 2 board)



(FL board)

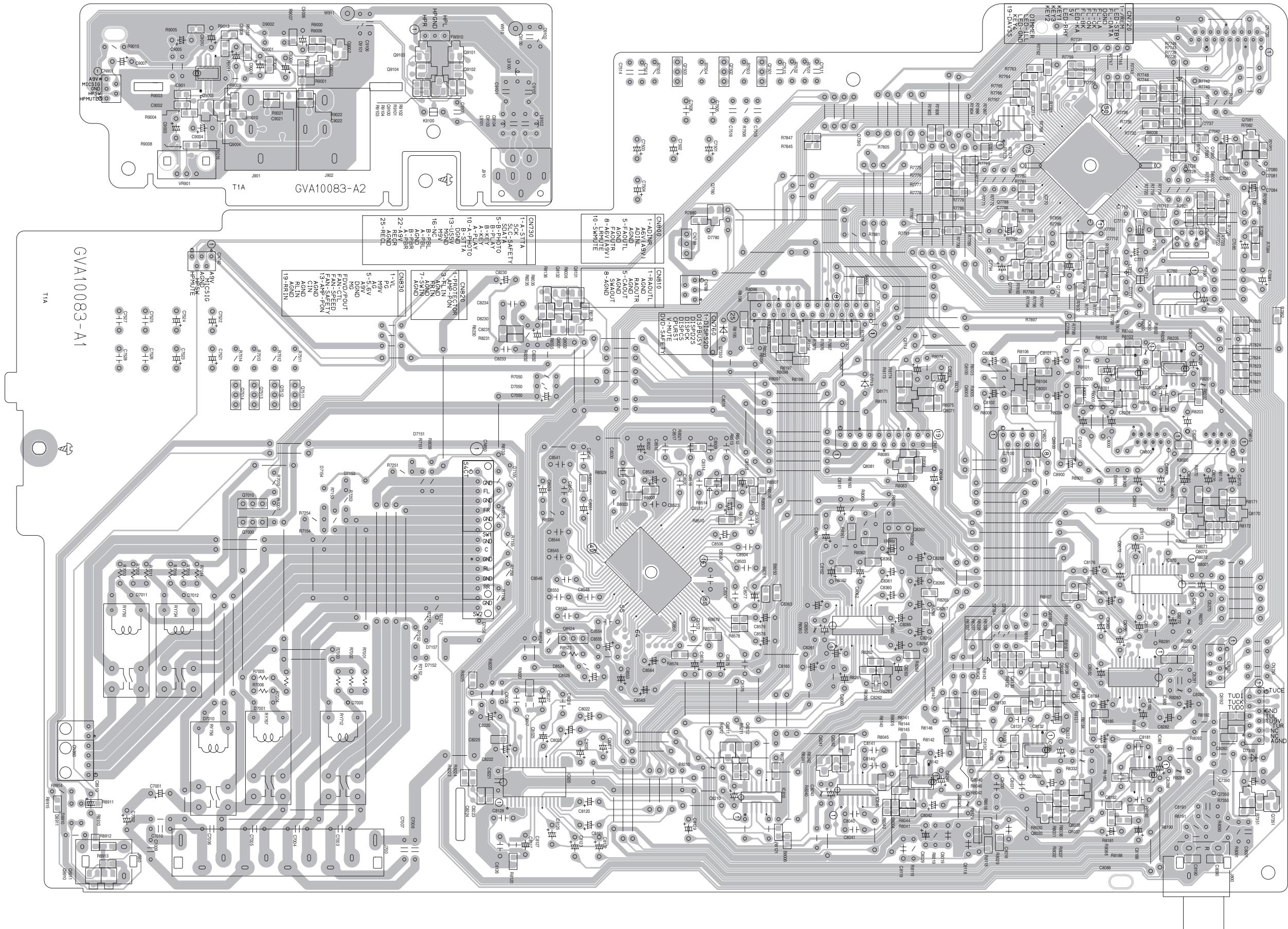


■ Main board

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

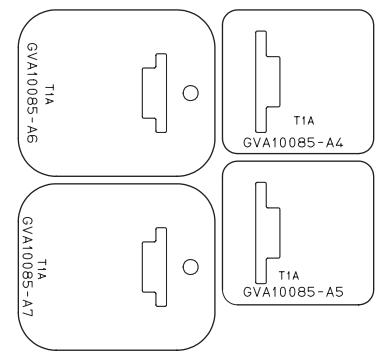
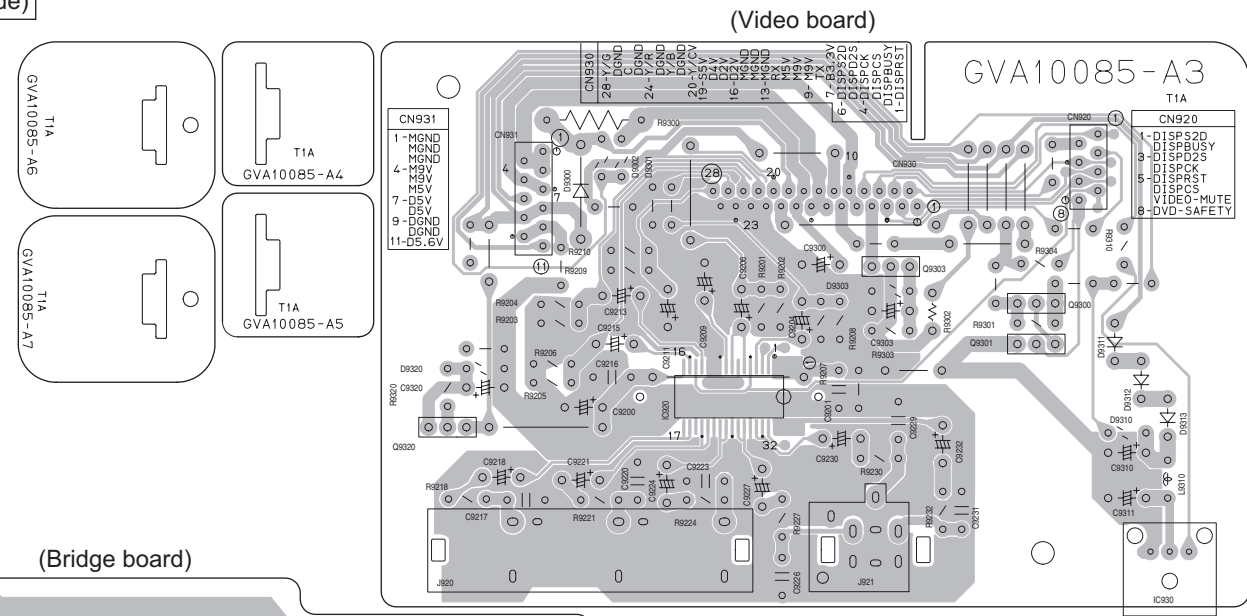
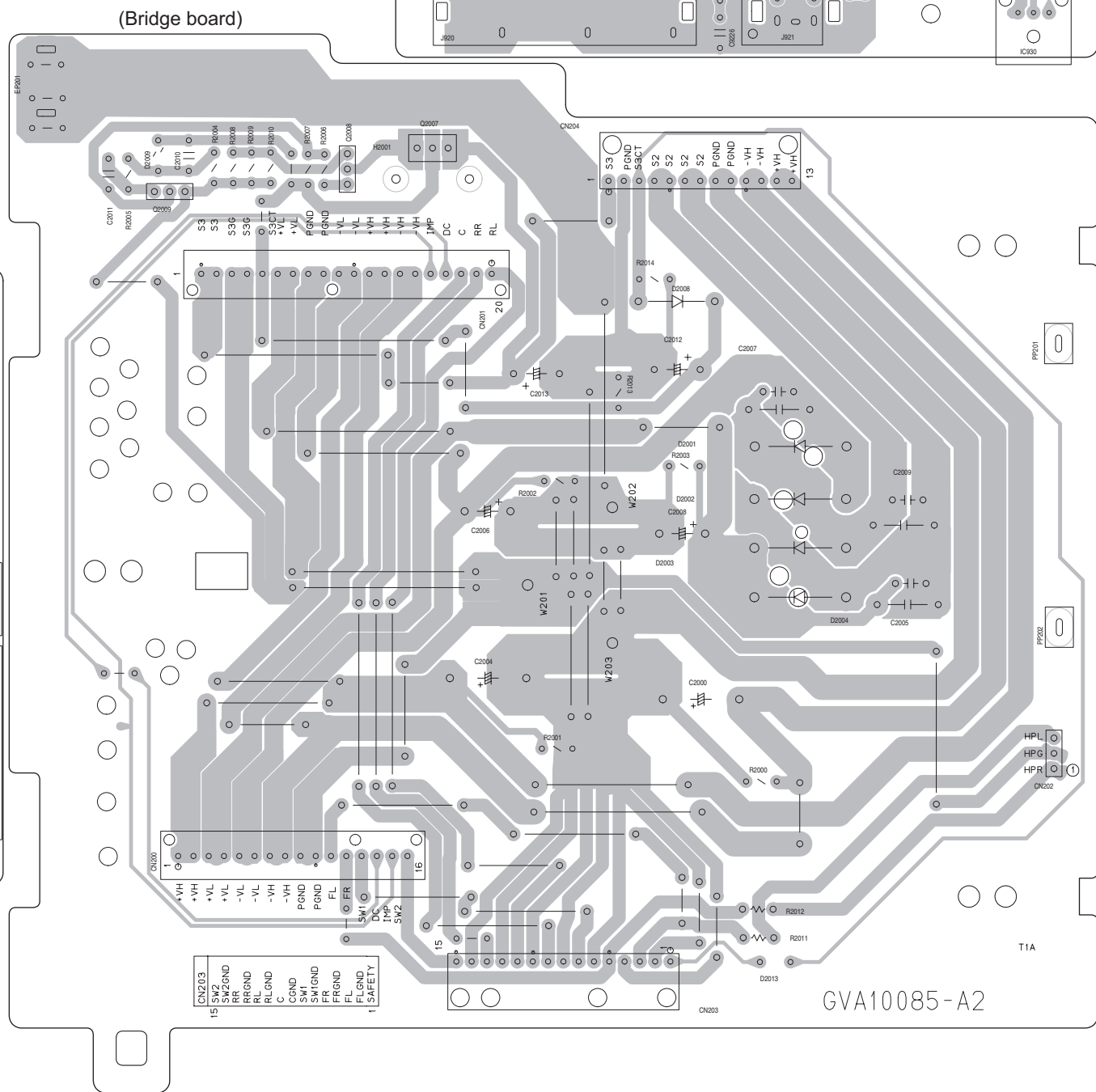
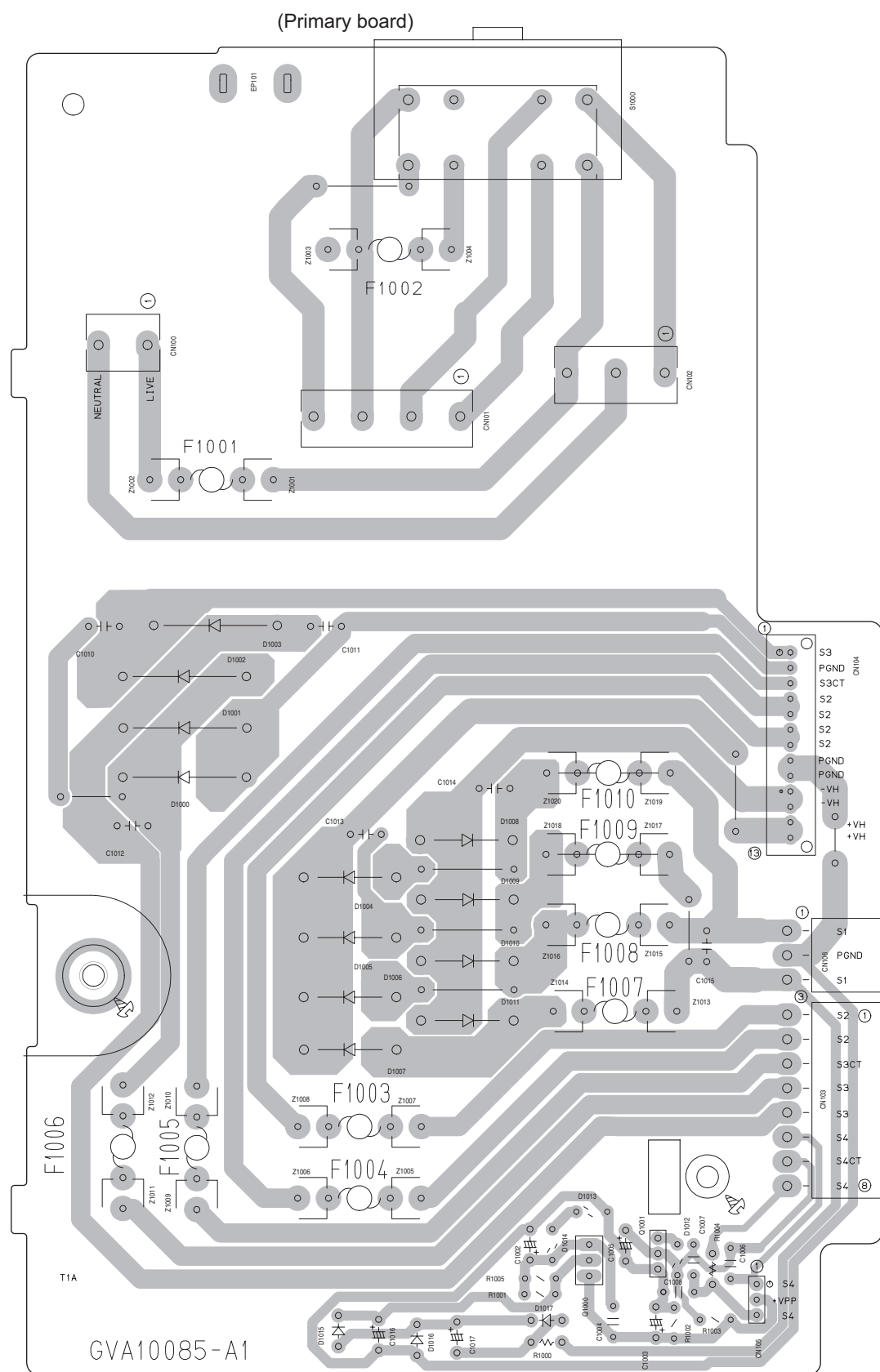
(Microphone amplifier board)

(Main board)



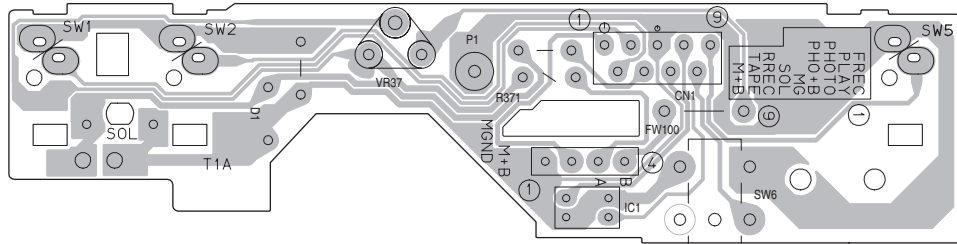
■ Primary board

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



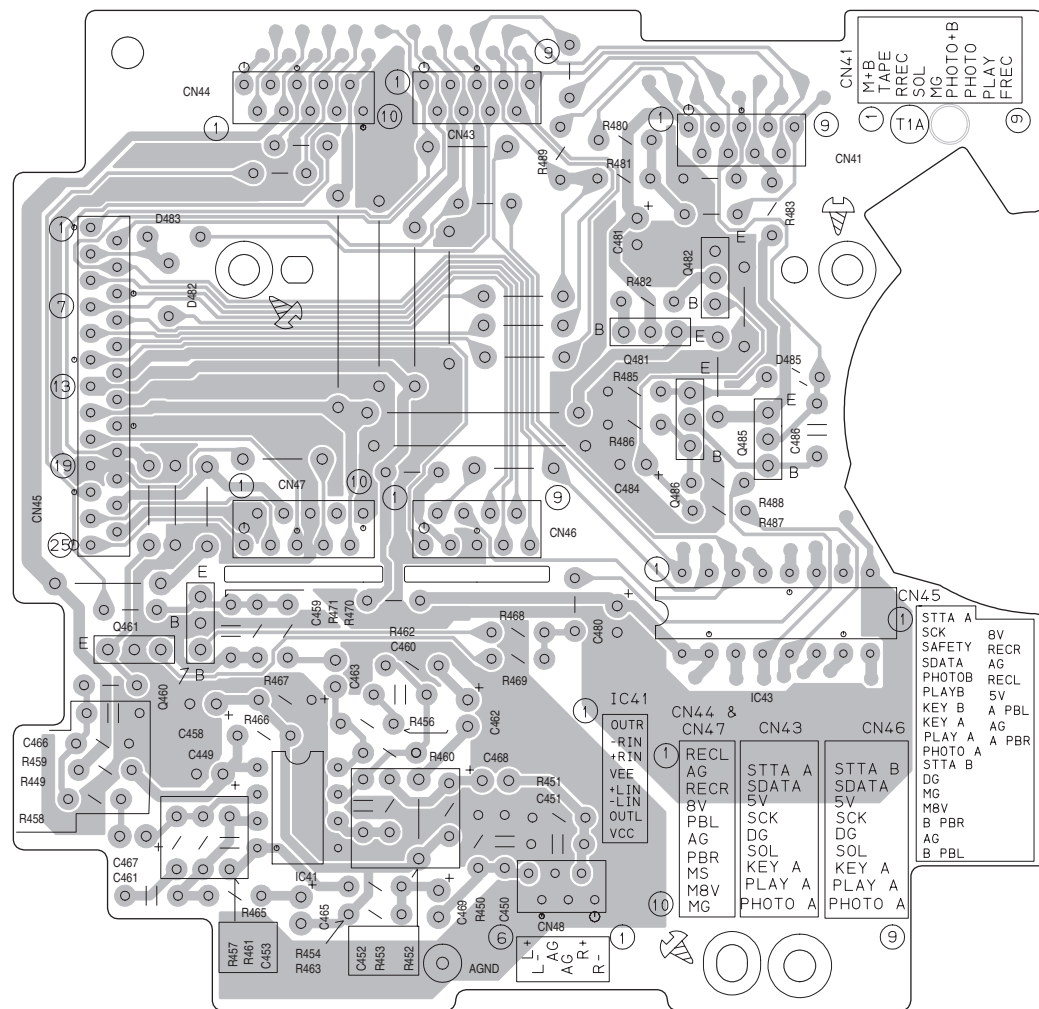
■ **Cassette switch board (For A cassette)**

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



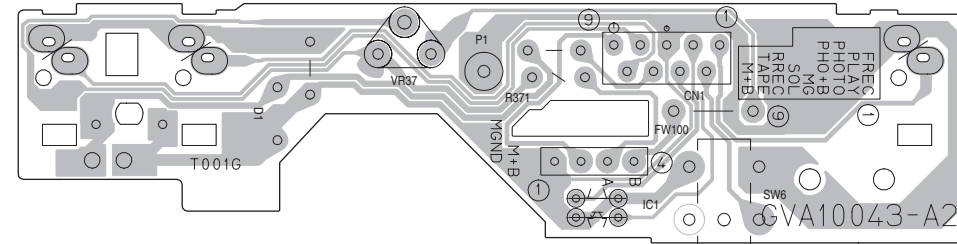
■ Head amplifier board (For A cassette)

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



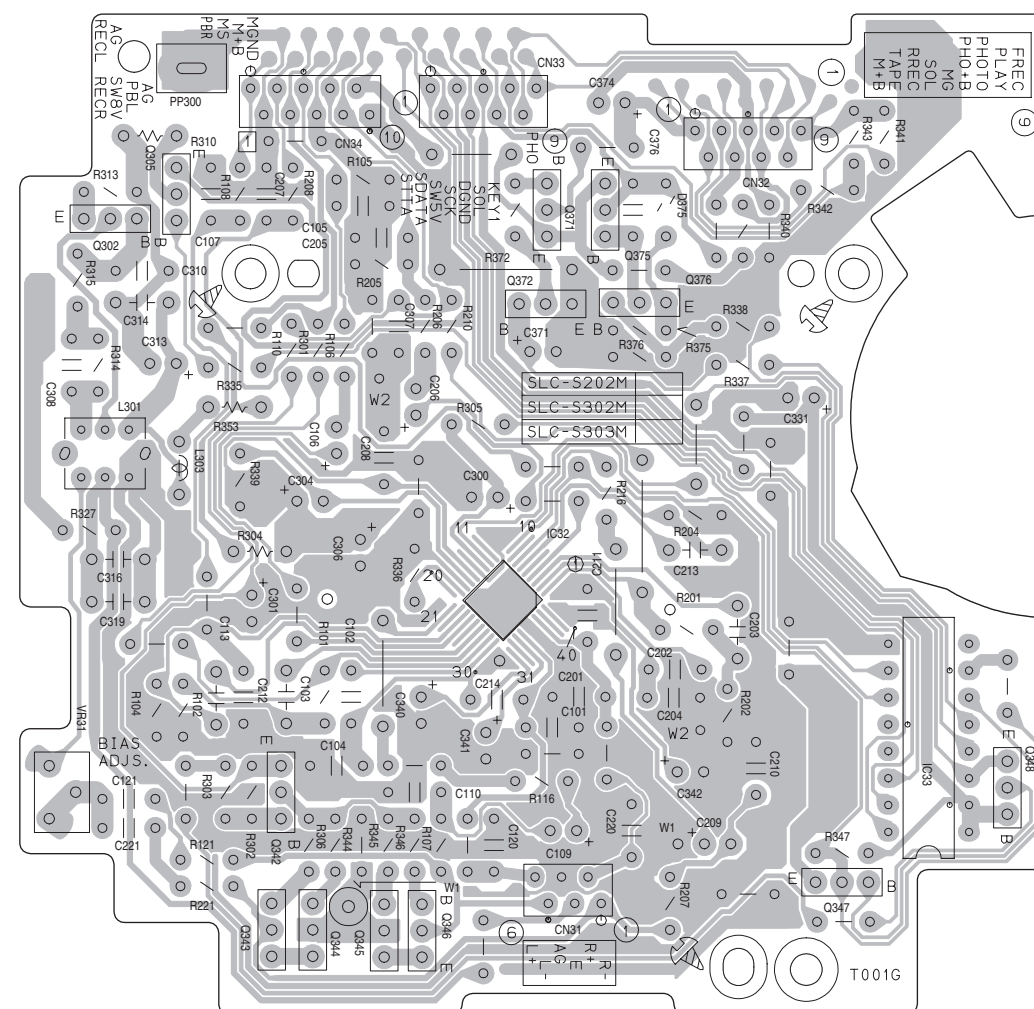
■ **Cassette switch board (For B cassette)**

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

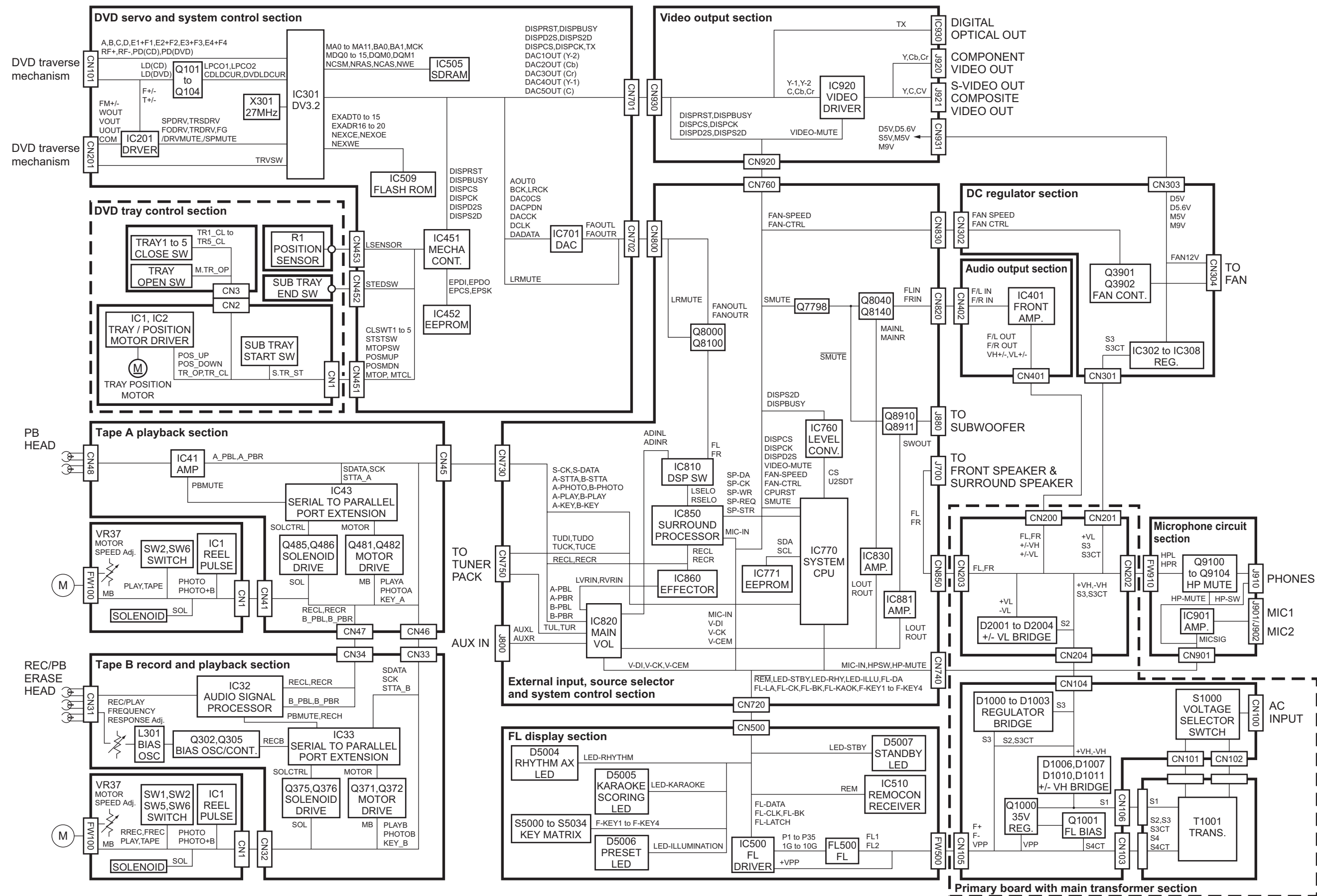


■ Head amplifier board (For B cassette)

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

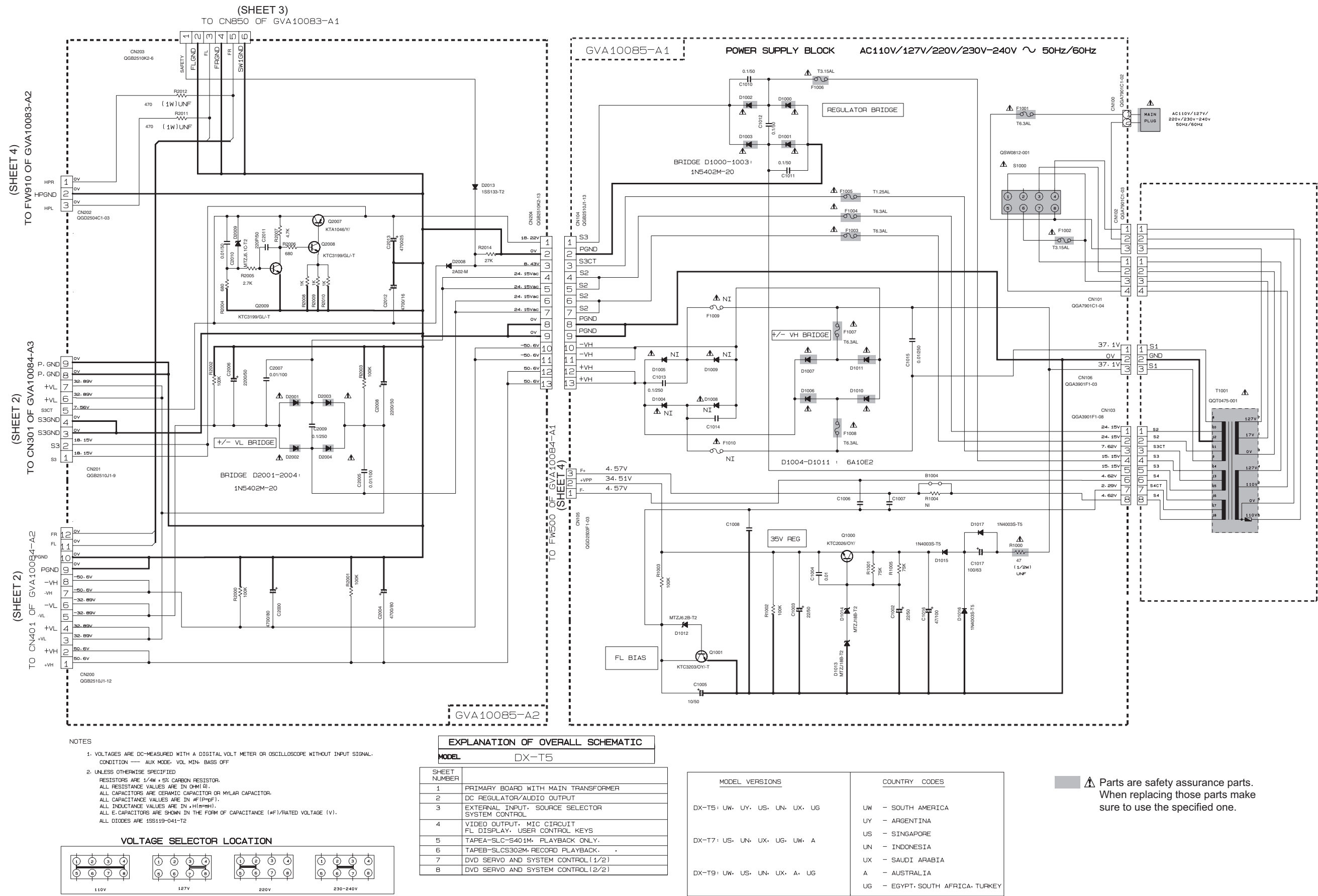


Block diagram (For DX-T5)

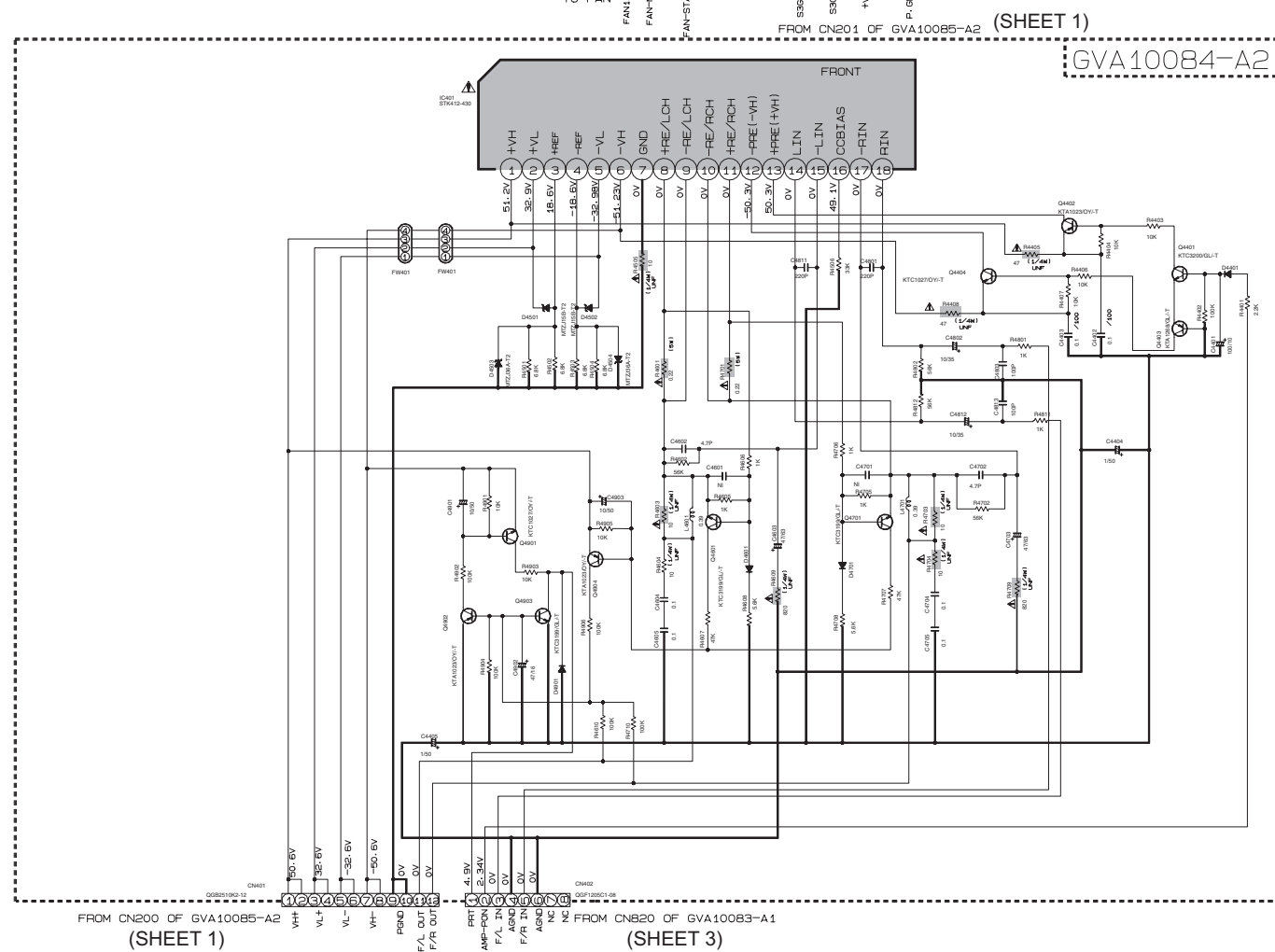
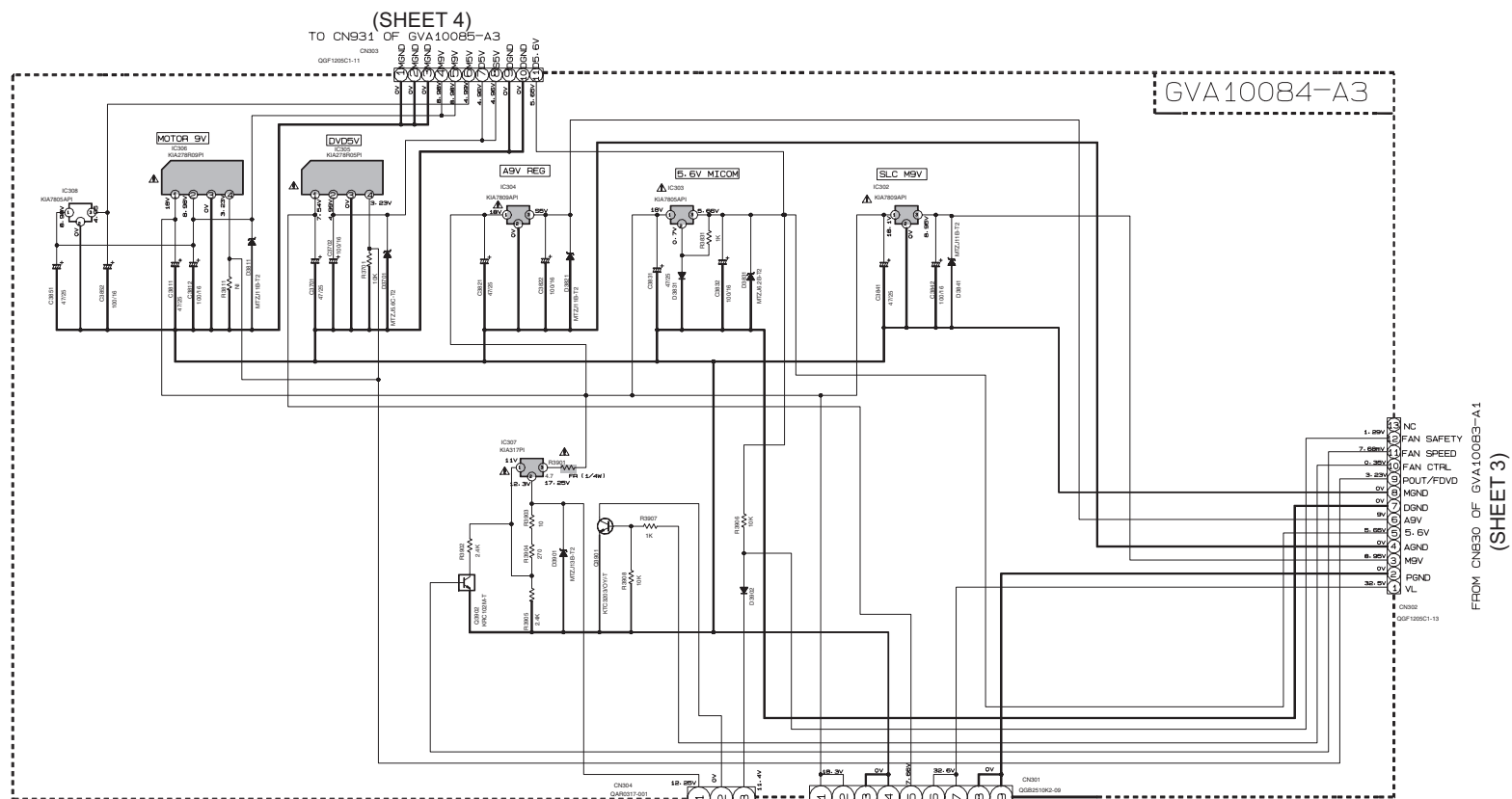


Standard schematic diagrams (For DX-T5)

Primary board with main transformer section



■ DC regulator and audio output section

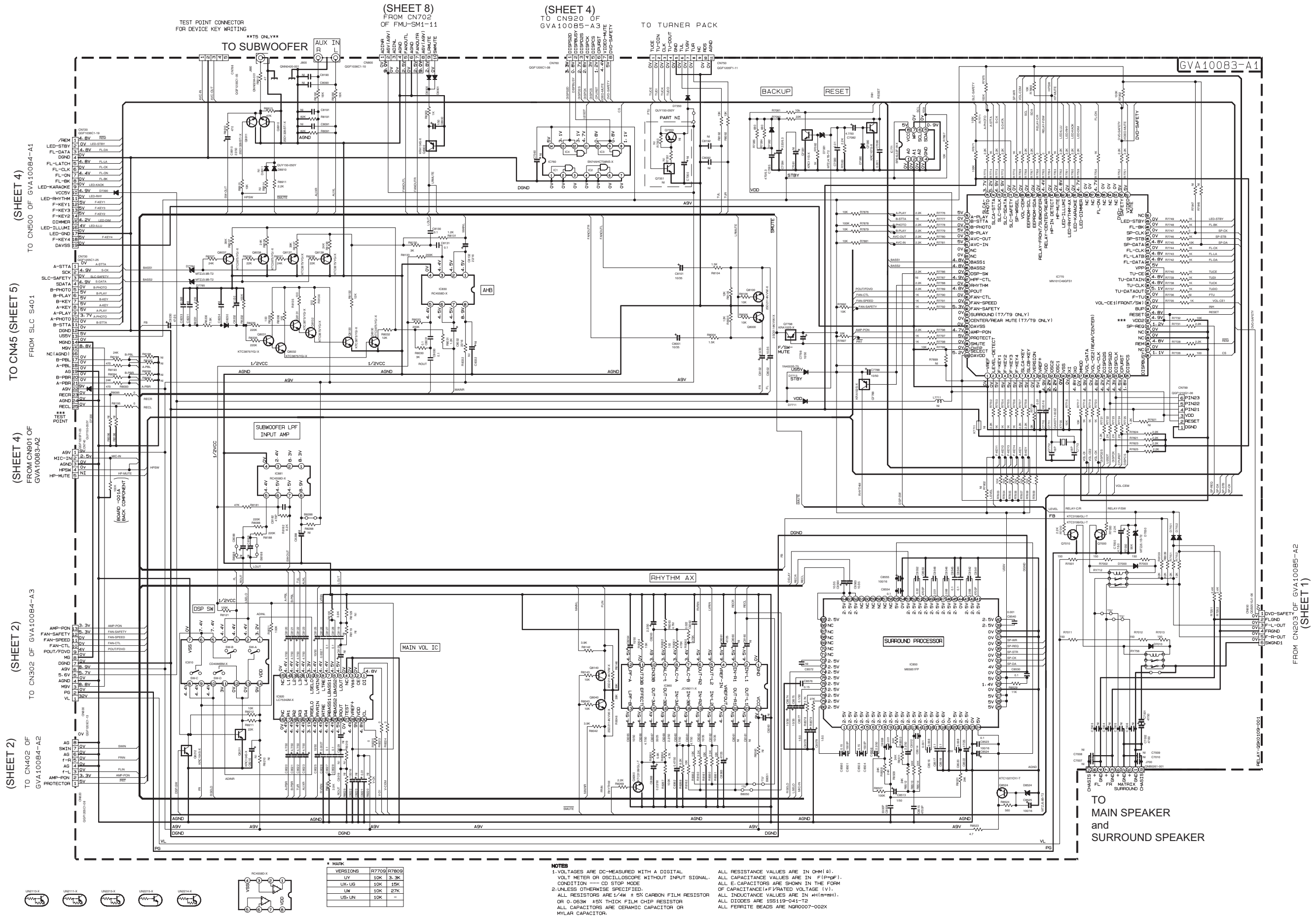


NOTES

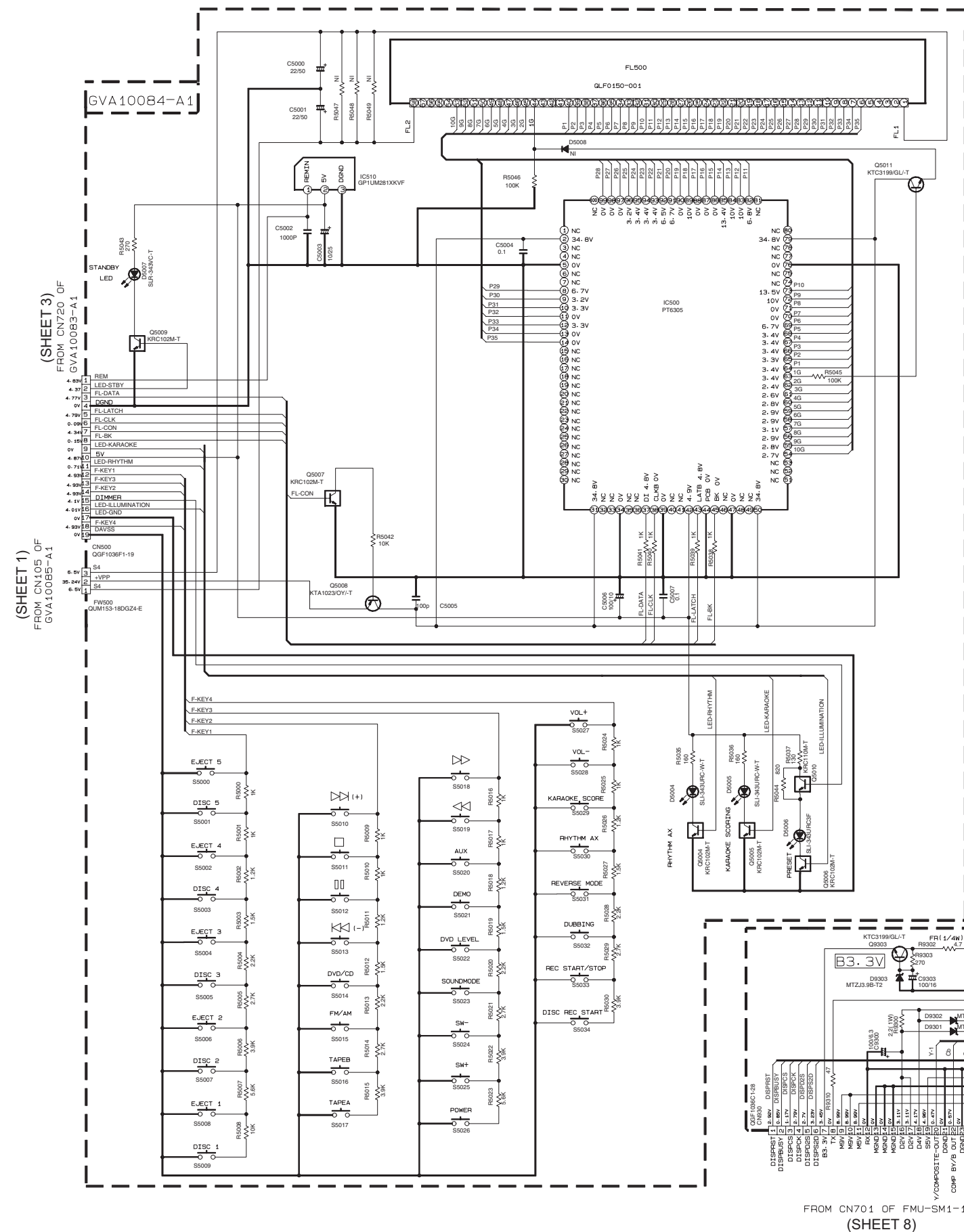
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION — ALX MODE, VOL. MIN, BASS OFF
2. UNLESS OTHERWISE SPECIFIED:
RESISTORS ARE 1/4W ±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHMS (Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN pF (pF).
ALL INDUCTANCE VALUES ARE IN mH (mH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS119-041-T2

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

External input, source selector and system control section

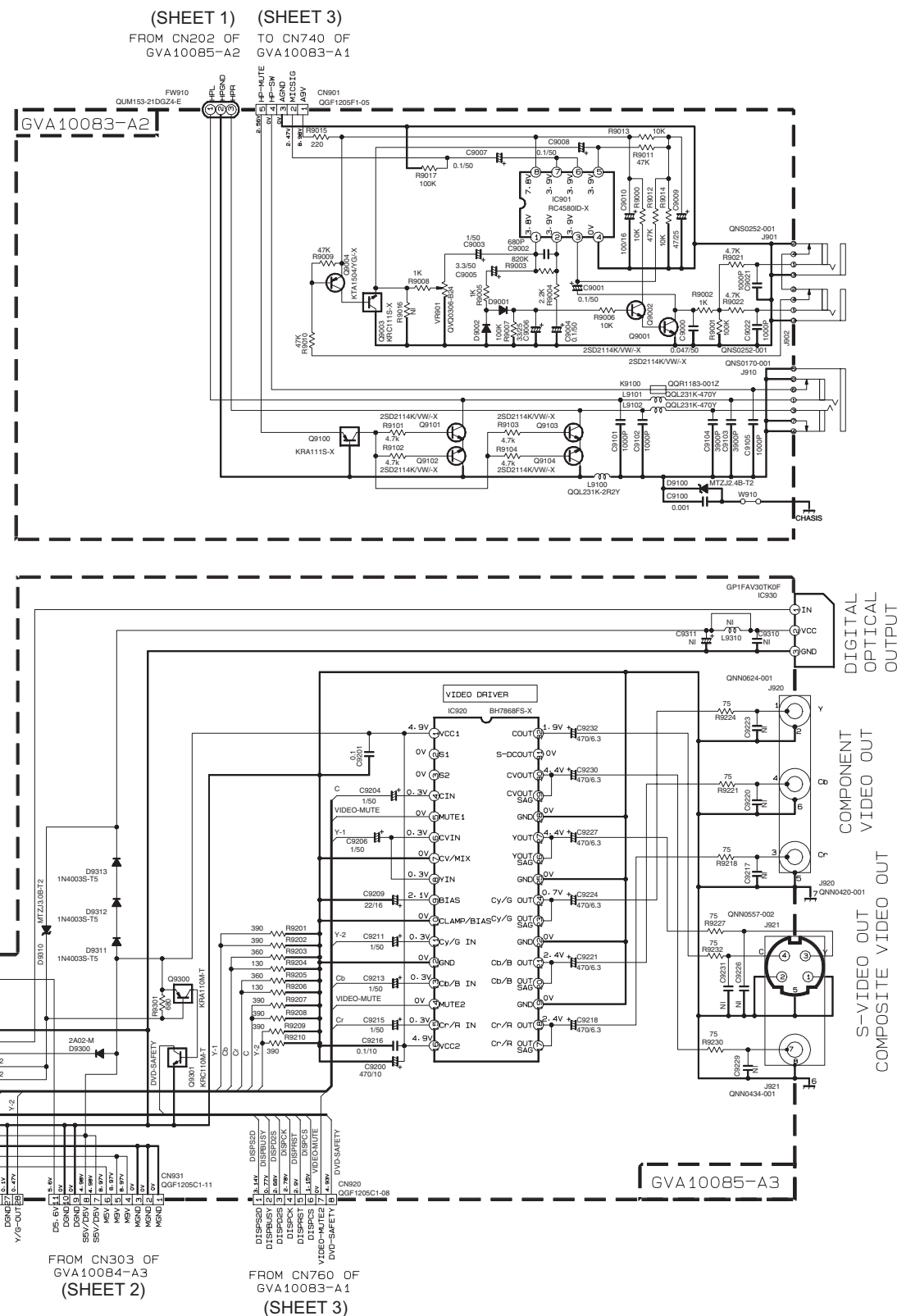


■ Video output, microphone circuit, FL display and user control keys section

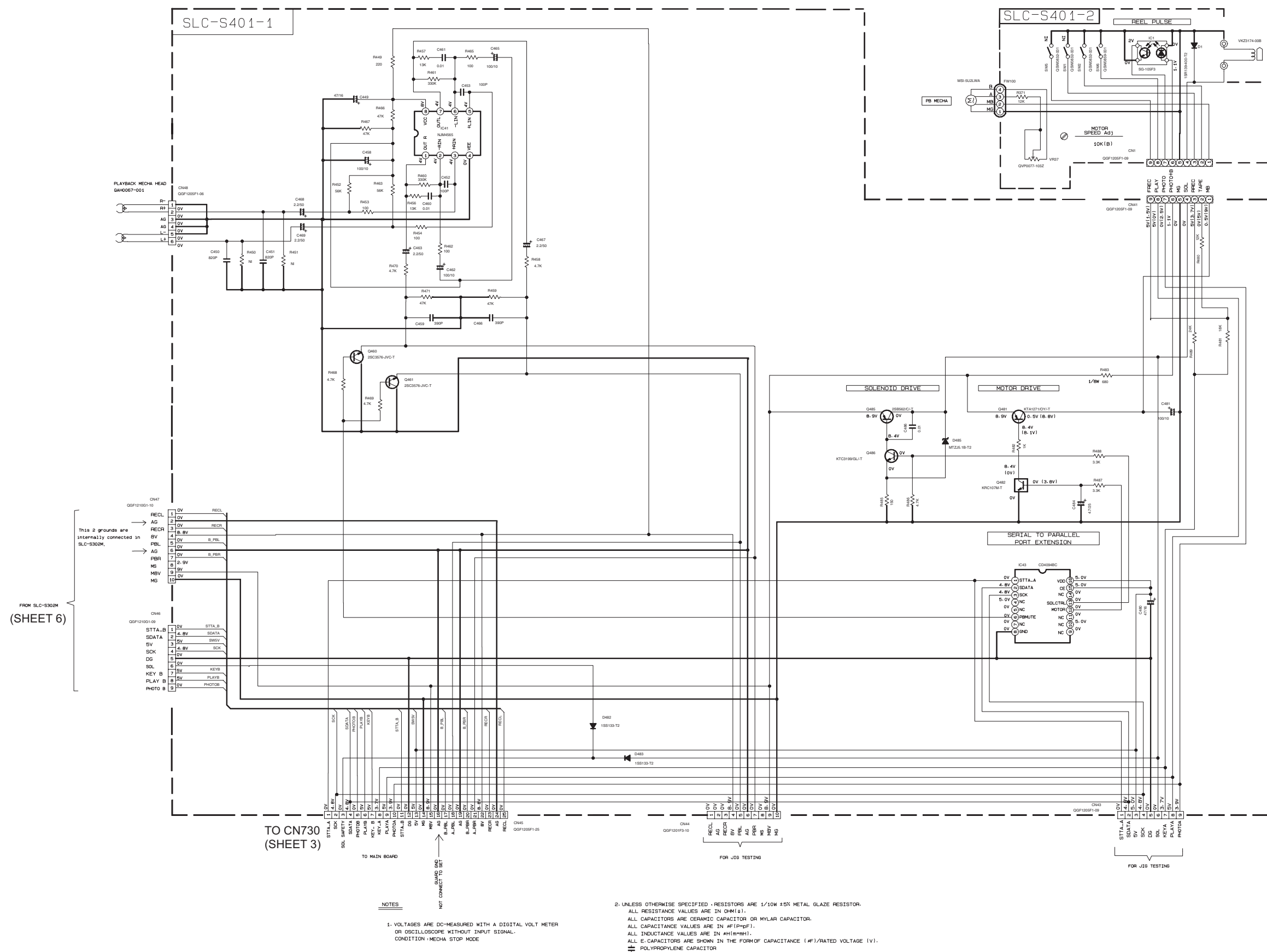


NOTES

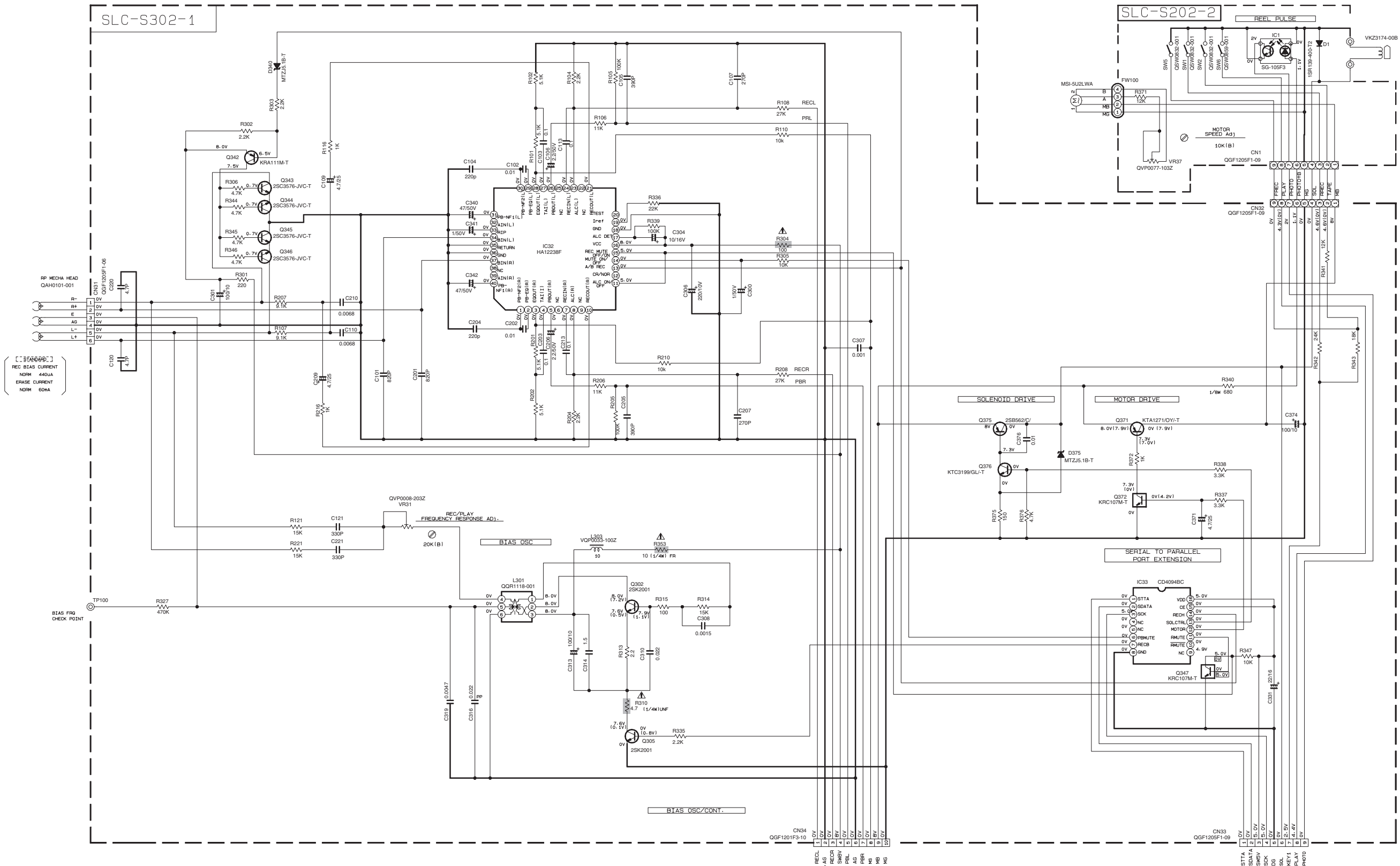
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- AUX MODE. VOL MIN. BASS OFF
2. UNLESS OTHERWISE SPECIFIED
- RESISTORS ARE 1/4W5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITORS MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μ F(μ MPF).
ALL INDUCTANCE VALUES ARE IN μ H(μ MPHF).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μ F)/RATED VOLTAGE (V).
ALL DIODE ARE 1SS133-72
ALL TACT SWITCH ARE GSW0674-0012



■ Tape A playback section



■ Tape B record and playback section



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION : MECHA STOP MODE

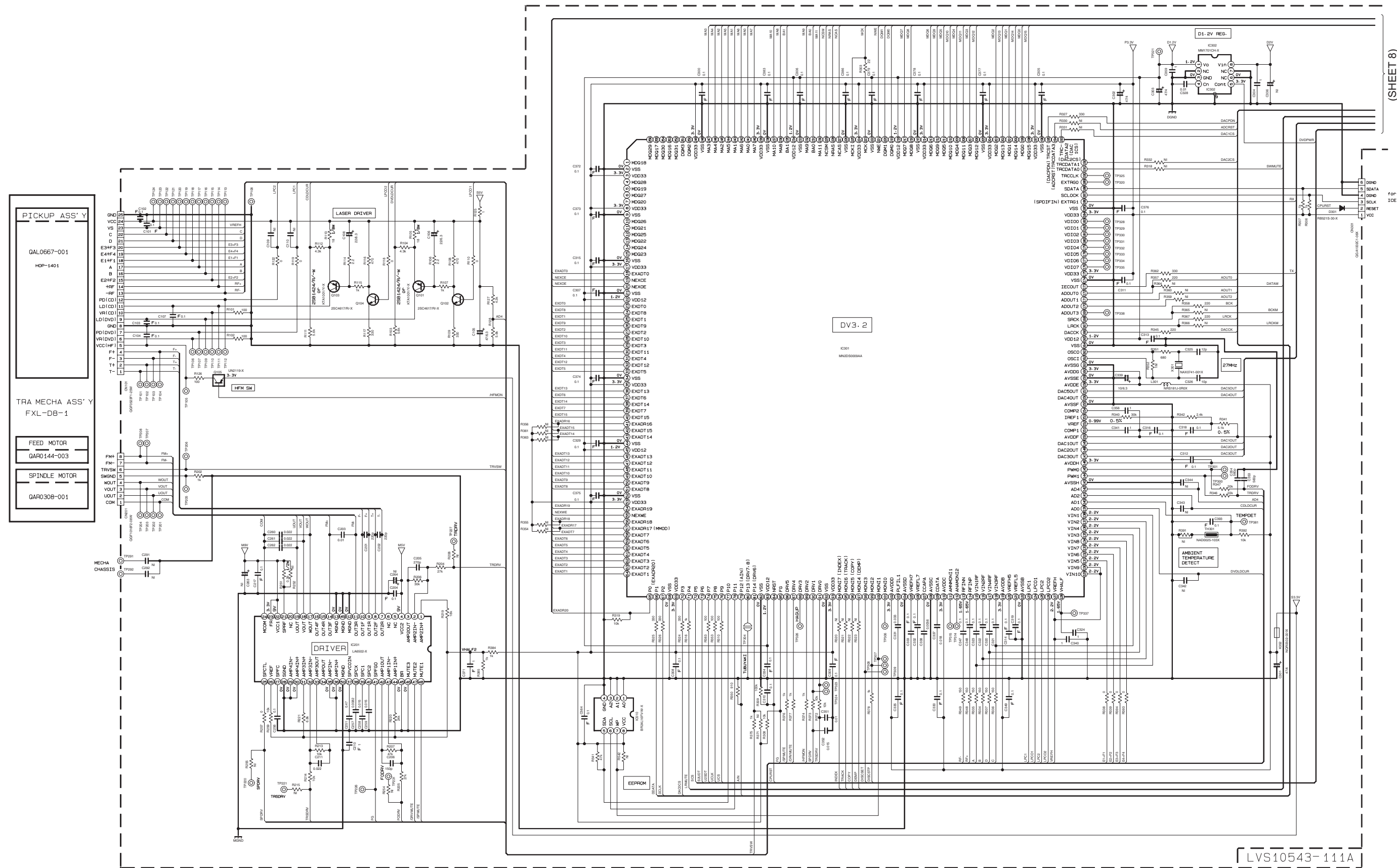
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN #F(PpF).
ALL INDUCTANCE VALUES ARE IN #H(m=MH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).
POLYPROPYLENE CAPACITOR

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

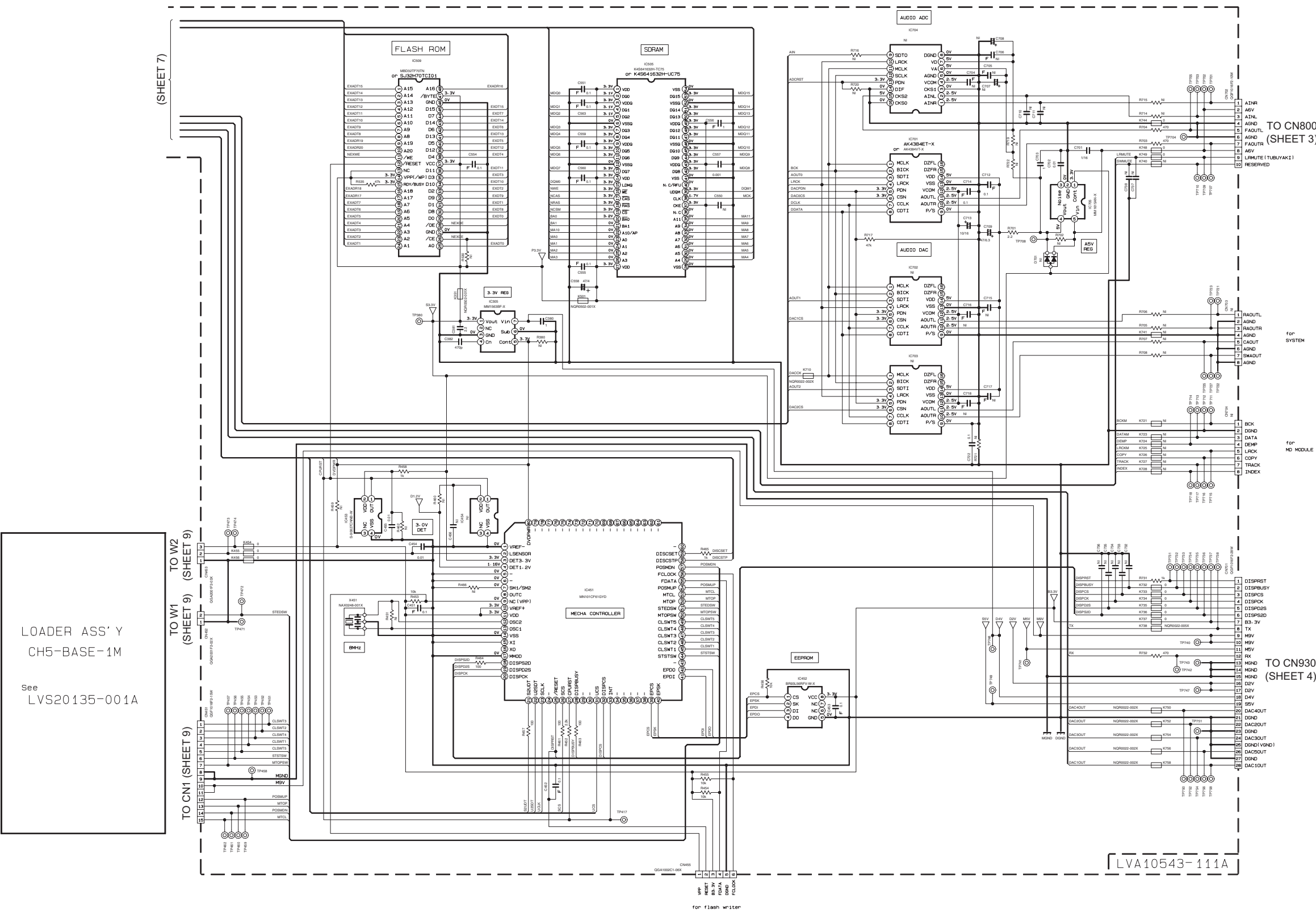
TO SLC-S401 CN46
(SHEET 5)

TO SLC-S401 CN47
(SHEET 5)

■ DVD servo and system control section (1/2)



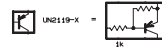
■ DVD servo and system control section (2/2)



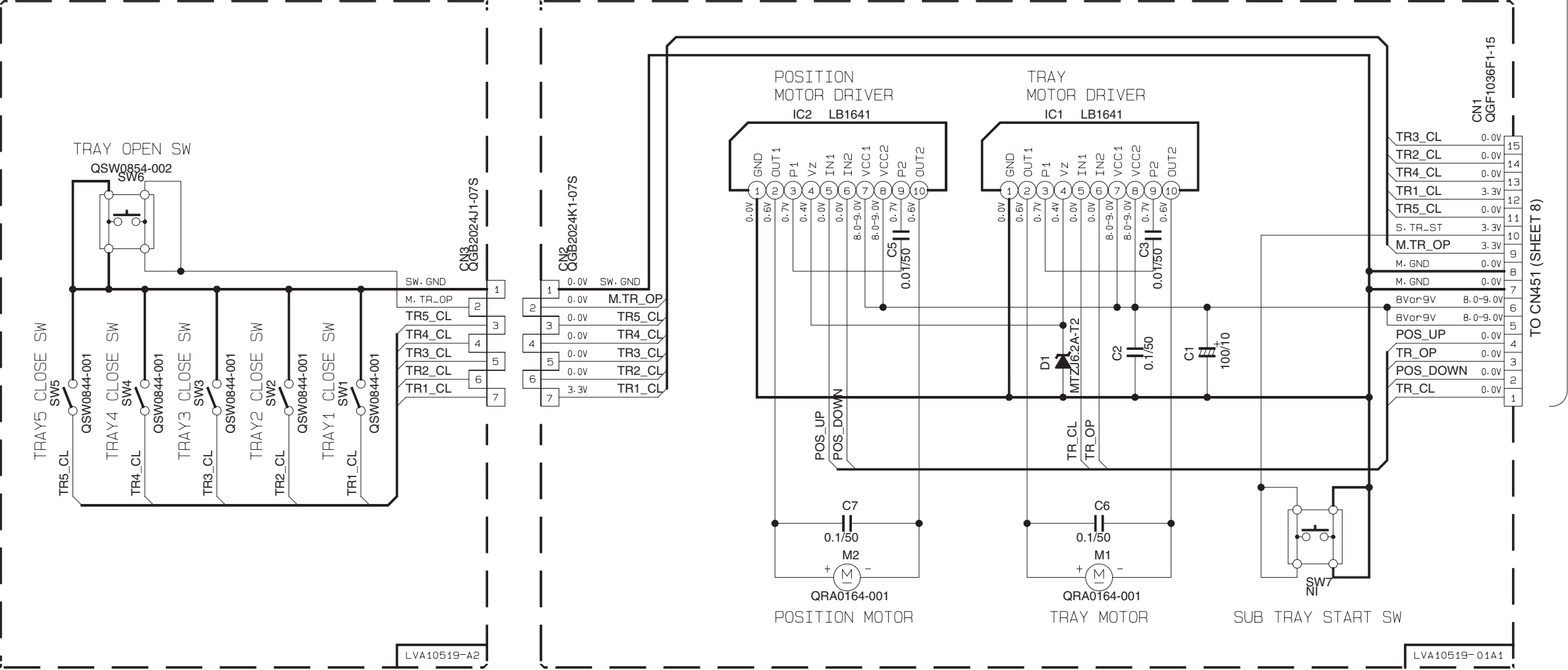
NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- A DVD disc in the Tray 1-and STOP mode.
- UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR, OR 0.5X METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V ±20V ±10V ±10V OR 6.3V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(μF).
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
ALL INDUCTANCE VALUES ARE IN μH(mH).
- NI STANDS FOR NOT INSERTED PARTS.

4-DIGITAL TRANSISTOR



■ DVD tray control 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.

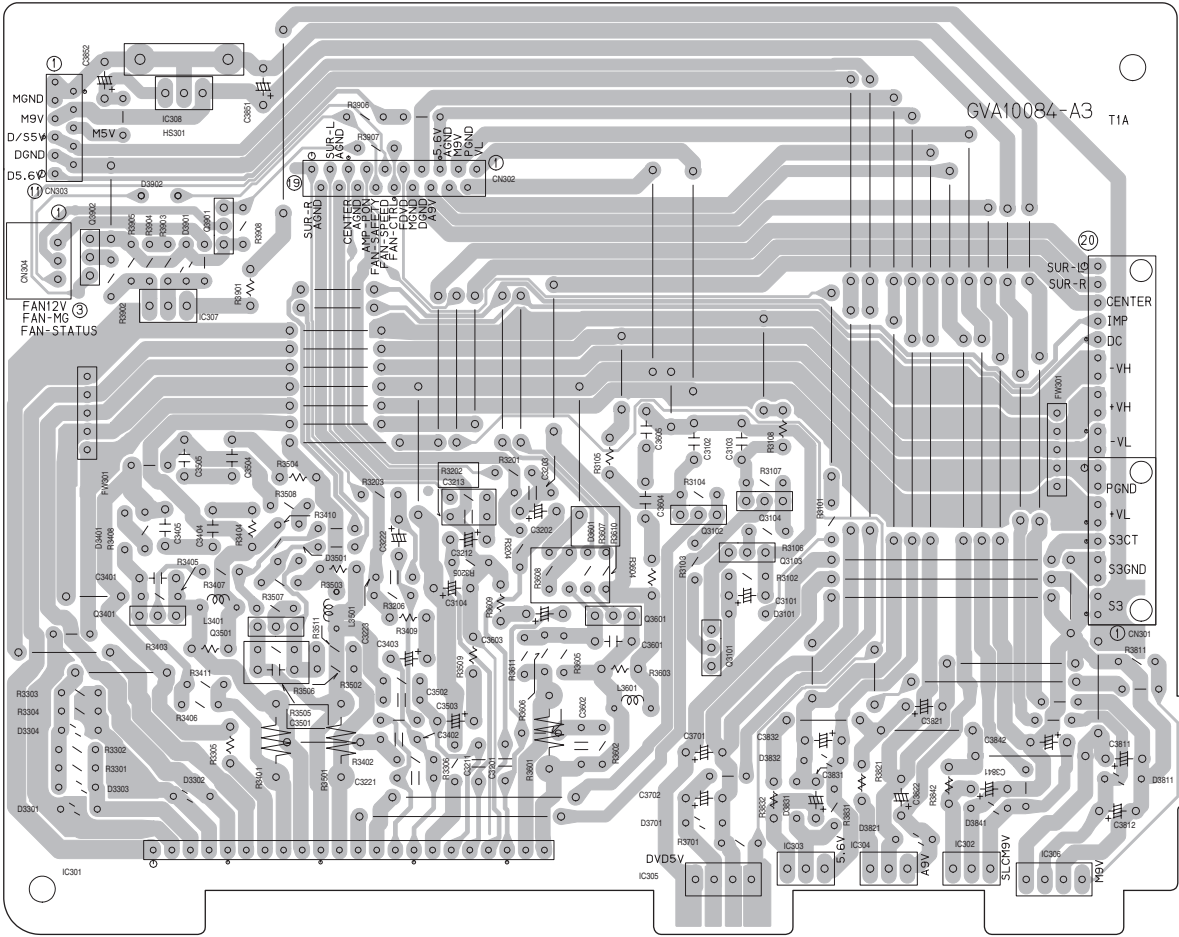
Printed circuit boards (For DX-T5)

Amplifier board

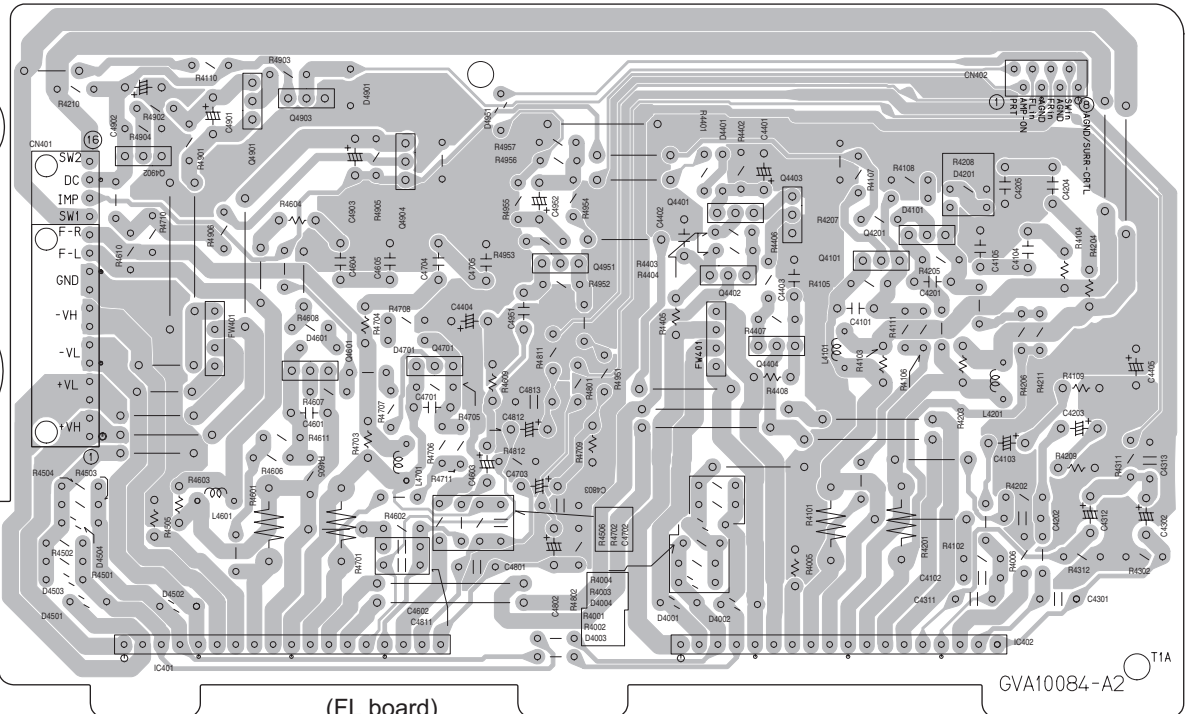
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



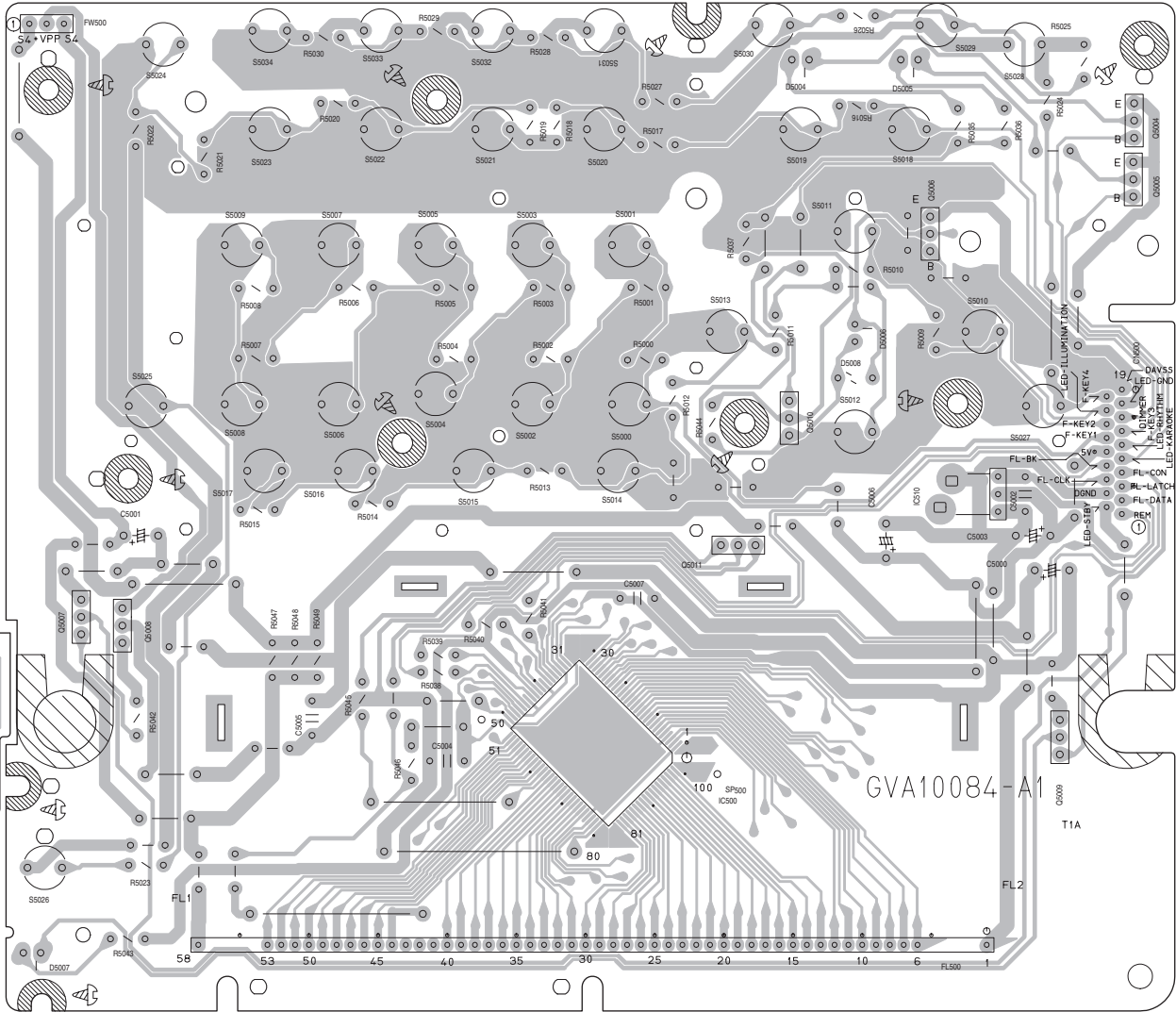
(Amplifier 1 board)



(Amplifier 2 board)

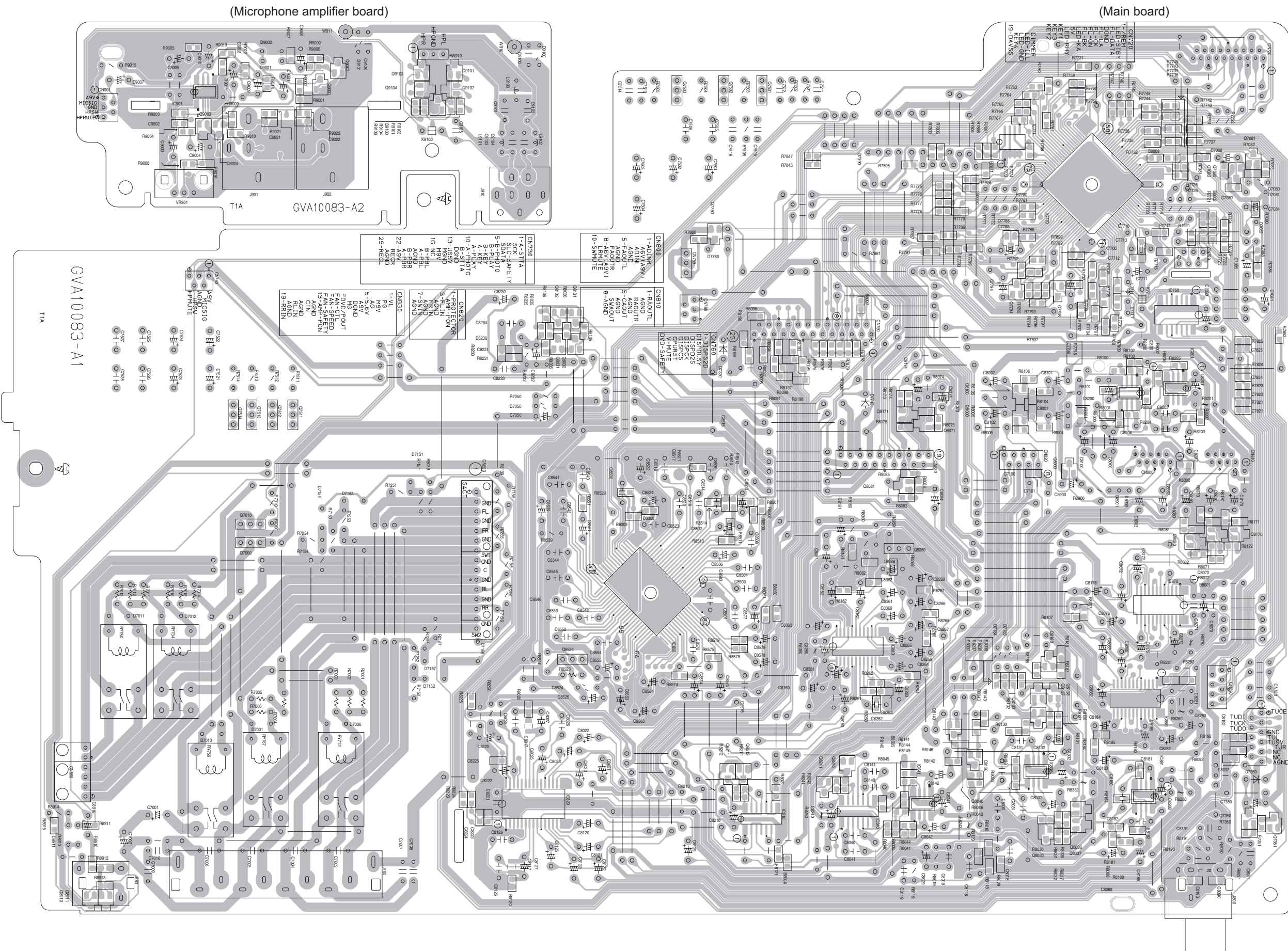


(FL board)

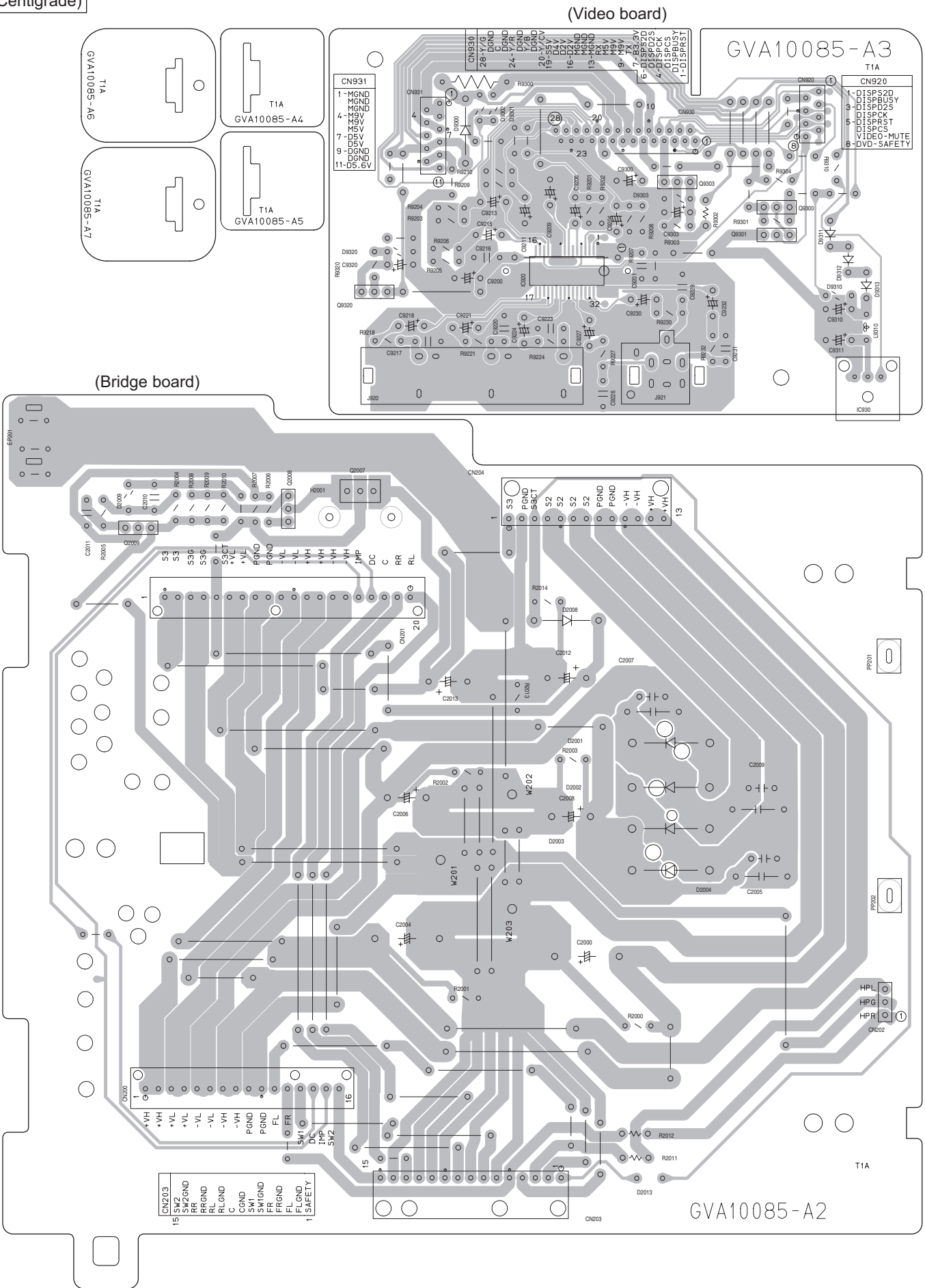
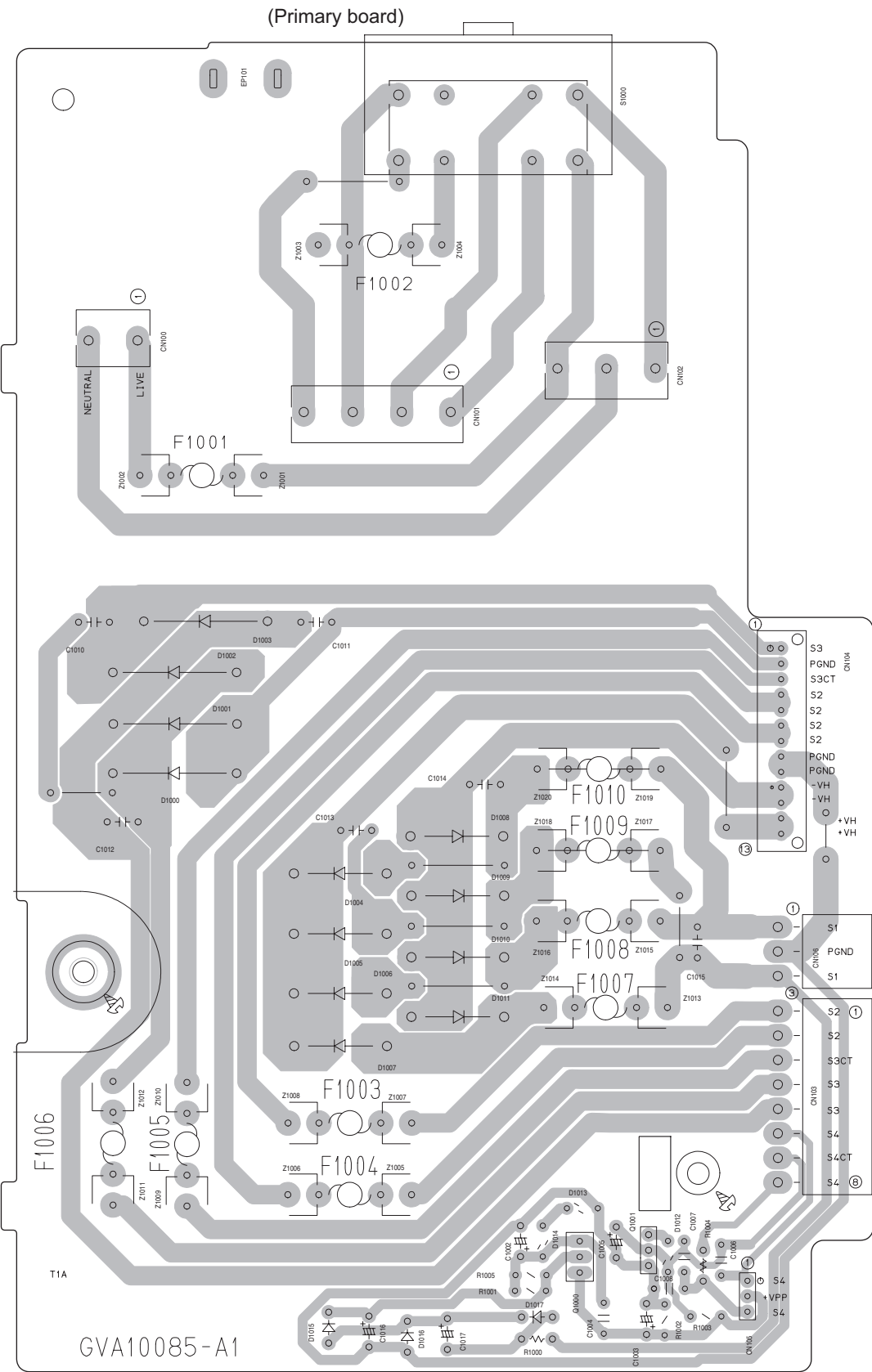


■ Main board

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



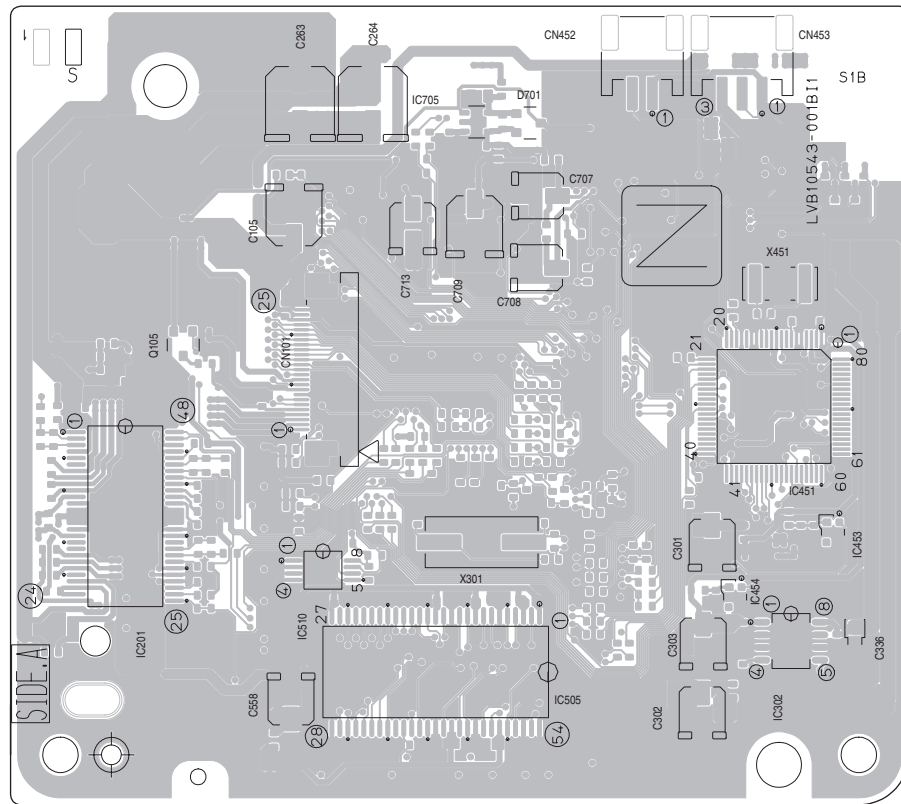
■ Primary board Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



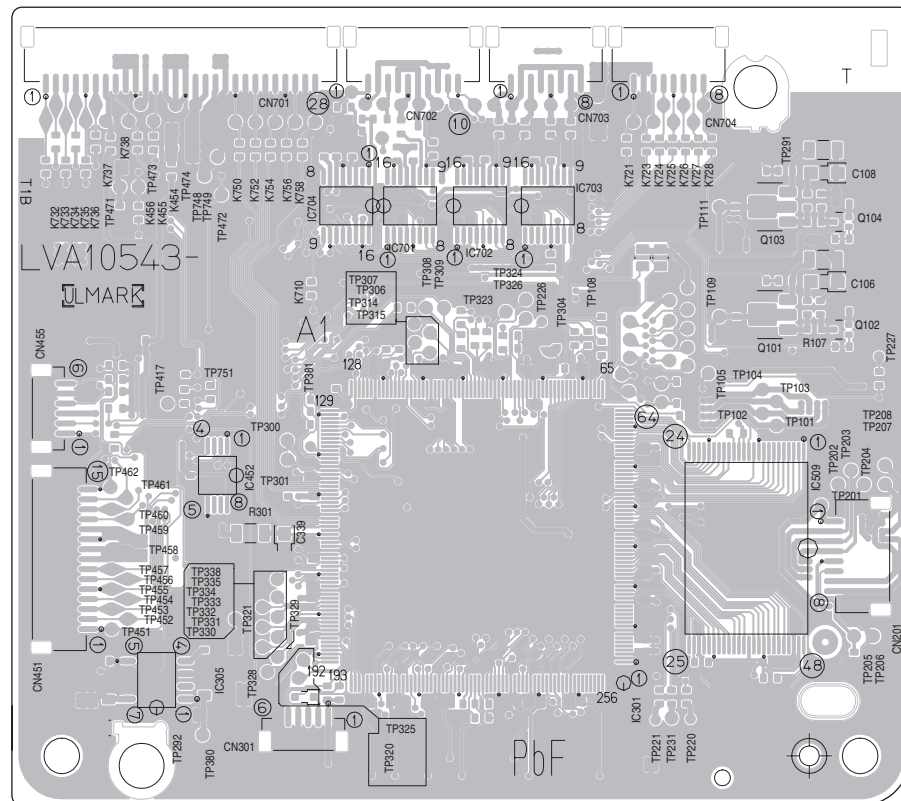
■ DVD servo board

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

Forward side



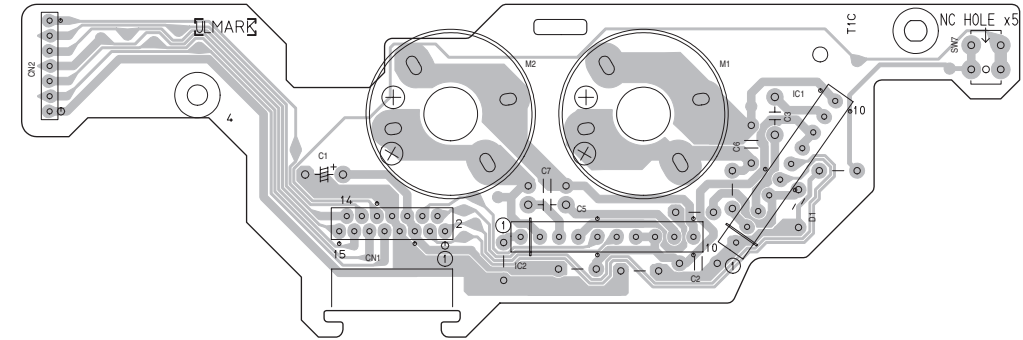
Reverse side



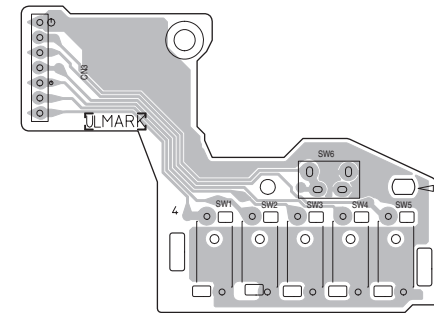
■ Loading board

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

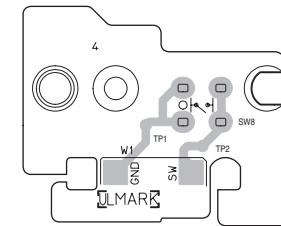
(Motor board)



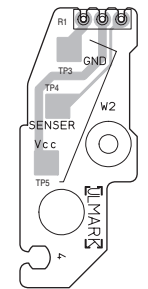
(Tray switch board)



(Switch board)

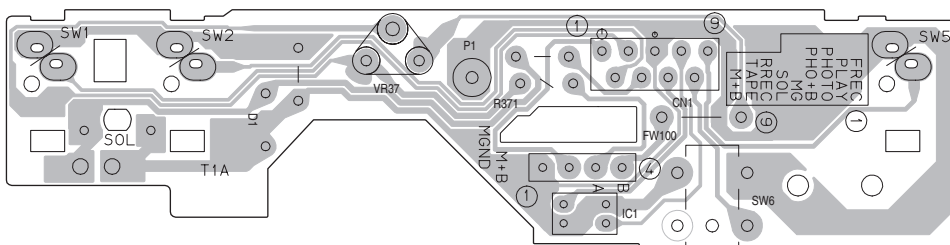


(Sensor board)



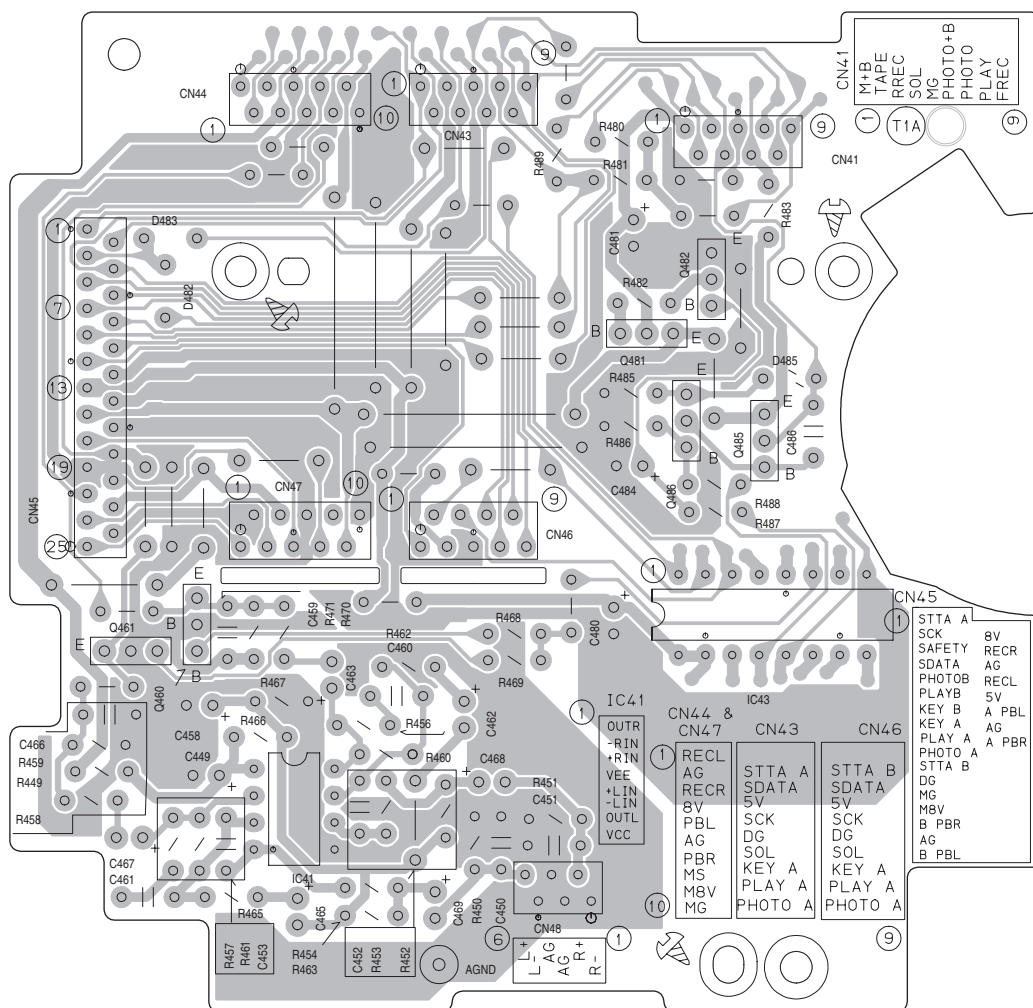
■ Cassette switch board (For A cassette)

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



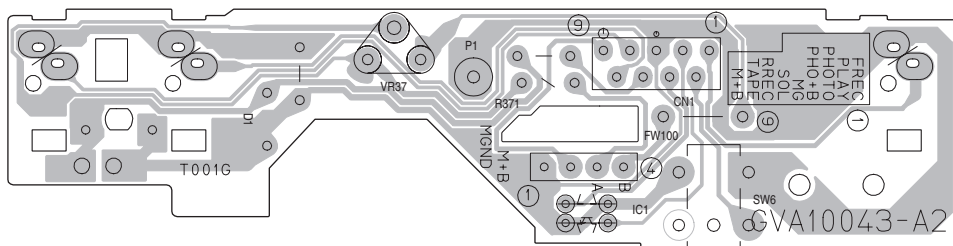
■ Head amplifier board (For A cassette)

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



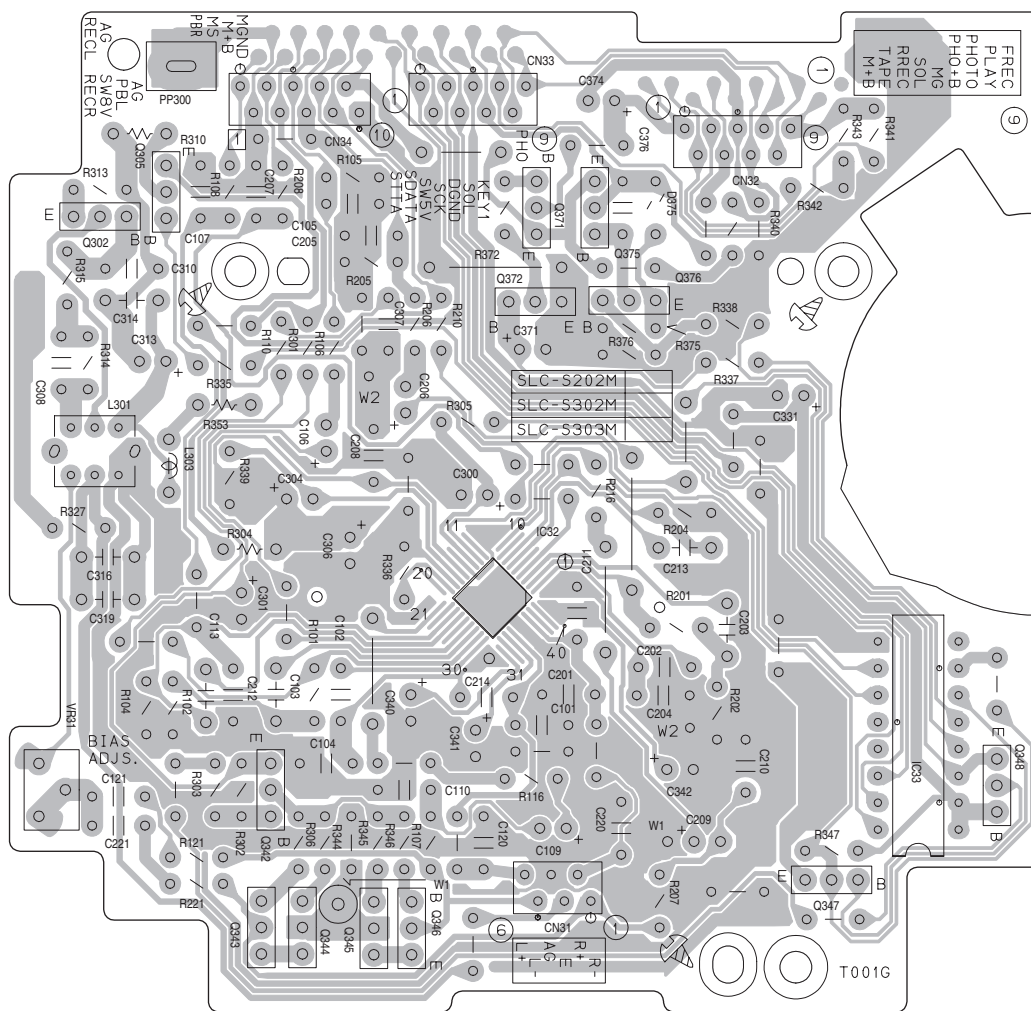
■ Cassette switch board (For B cassette)

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



■ Head amplifier board (For B cassette)

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



< M E M O >



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