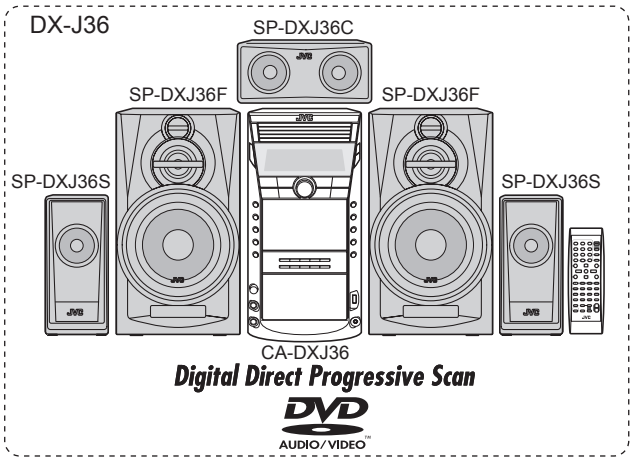
JVC

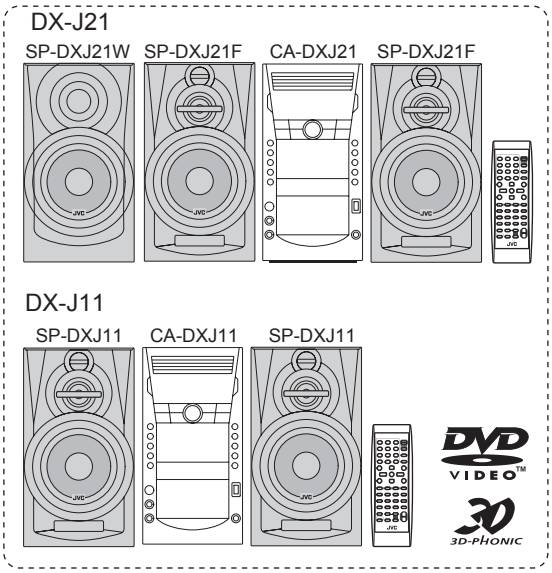
SCHEMATIC DIAGRAMS

COMPACT COMPONENT SYSTEM

DX-J36UN,DX-J36EE,DX-J36UX,DX-J36UG
DX-J21UN,DX-J21J,DX-J21EE,DX-J21A
DX-J21UW,DX-J21UX,DX-J21UG
DX-J11UN,DX-J11EE,DX-J11UW
DX-J11UX,DX-J11UG,DX-J11UH

DVD-ROM No.SML2008Q1





COMPACT DISC SUPER VIDEO
dts Digital Surround
DOLBY DIGITAL PRO LOGIC II
DivX
DivX ULTRA
DVD-R/-RW +R +RW PLAYBACK
MPEG-4 ASF PLAYBACK
ACTIVE BASS EXTENSION
VariBASS
KARAOKE SCORING
Calorie Display
MP3/WMA/WAV

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

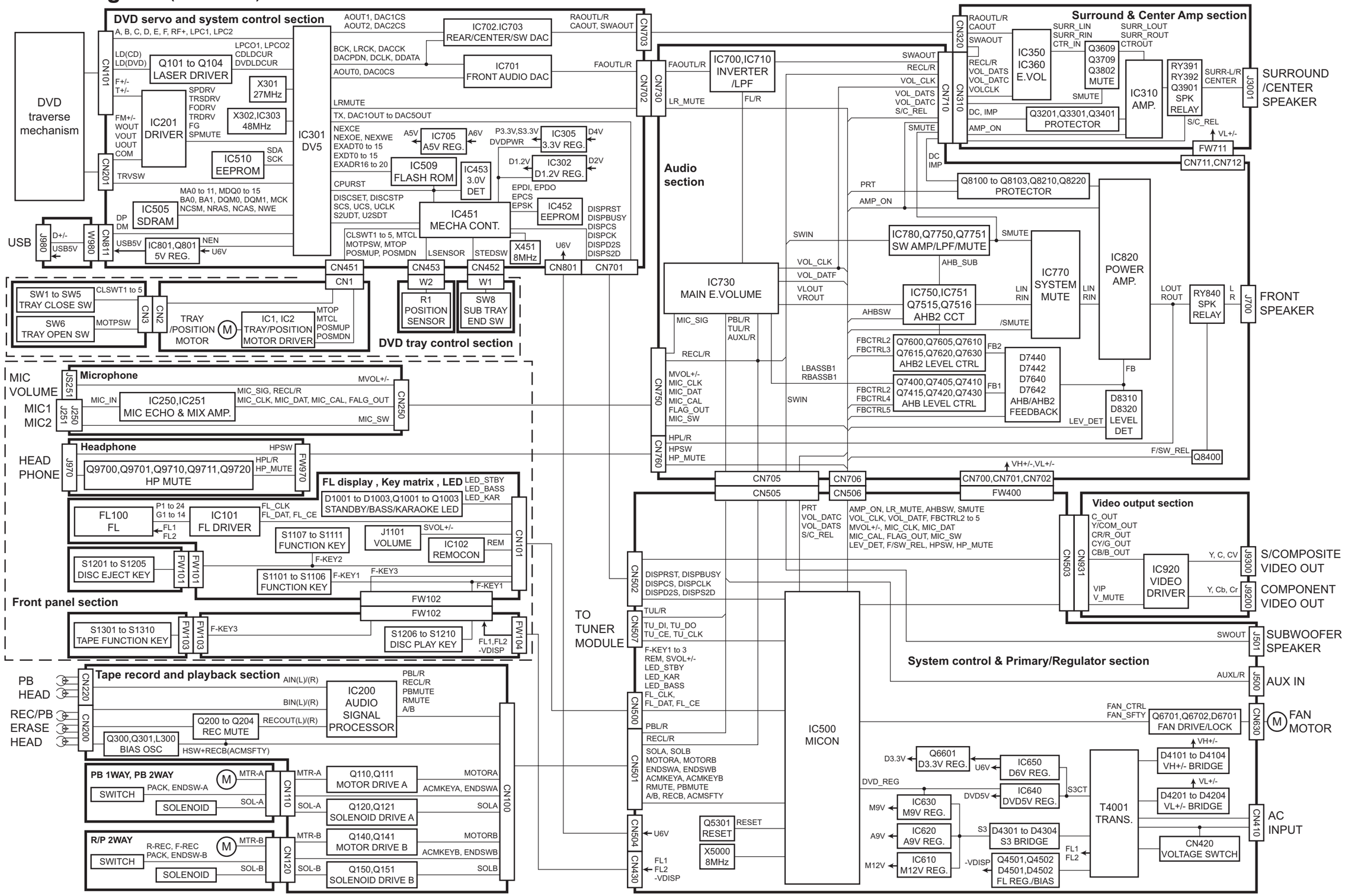
Contents

Block diagrams ---------- 2-1
Standard schematic diagrams ---------- 2-2
Printed circuit boards ---------- 2-20 to 22

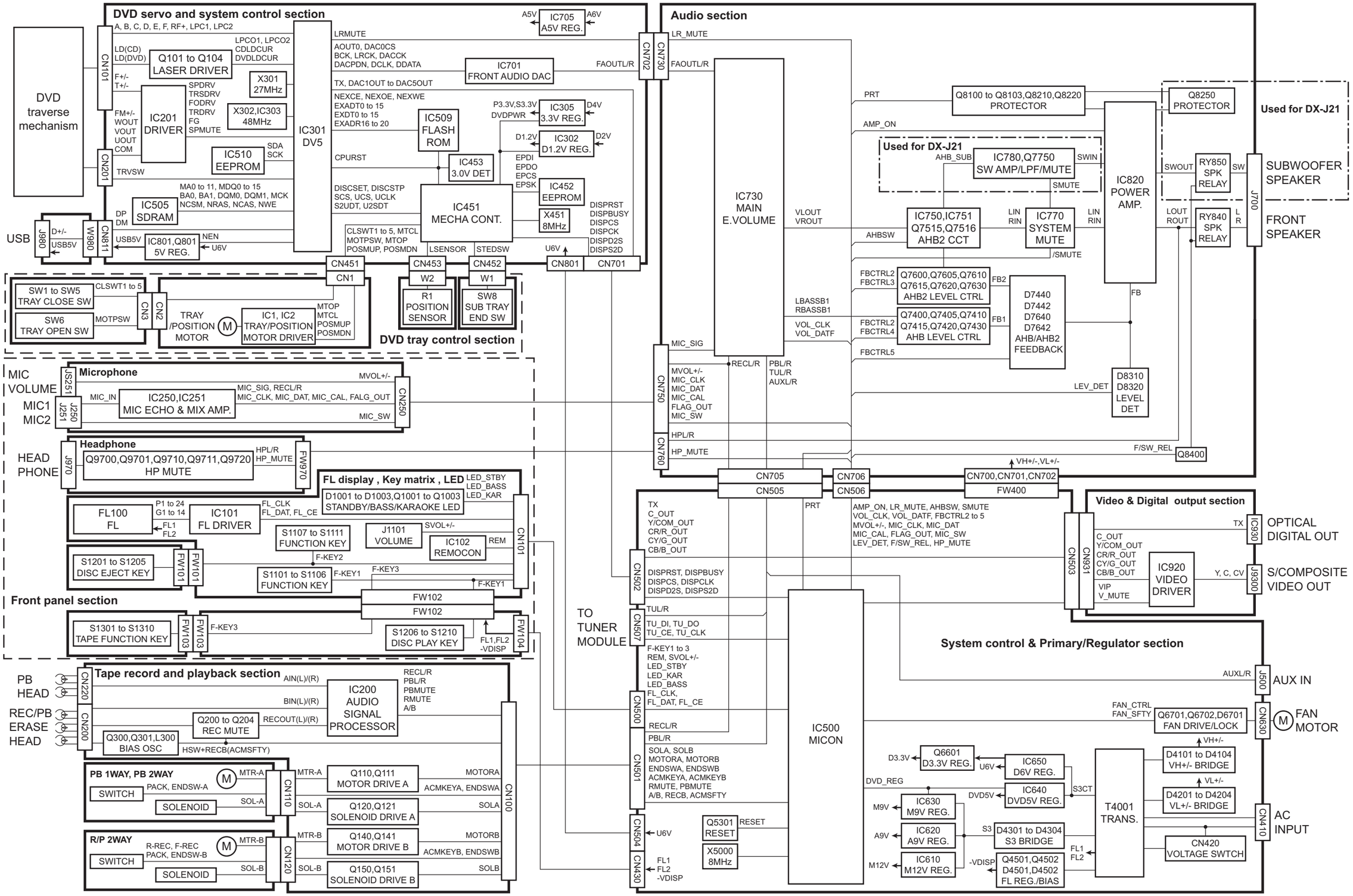
No.MB666SCH<Rev.002>
2008/6

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 (For DX-J36)

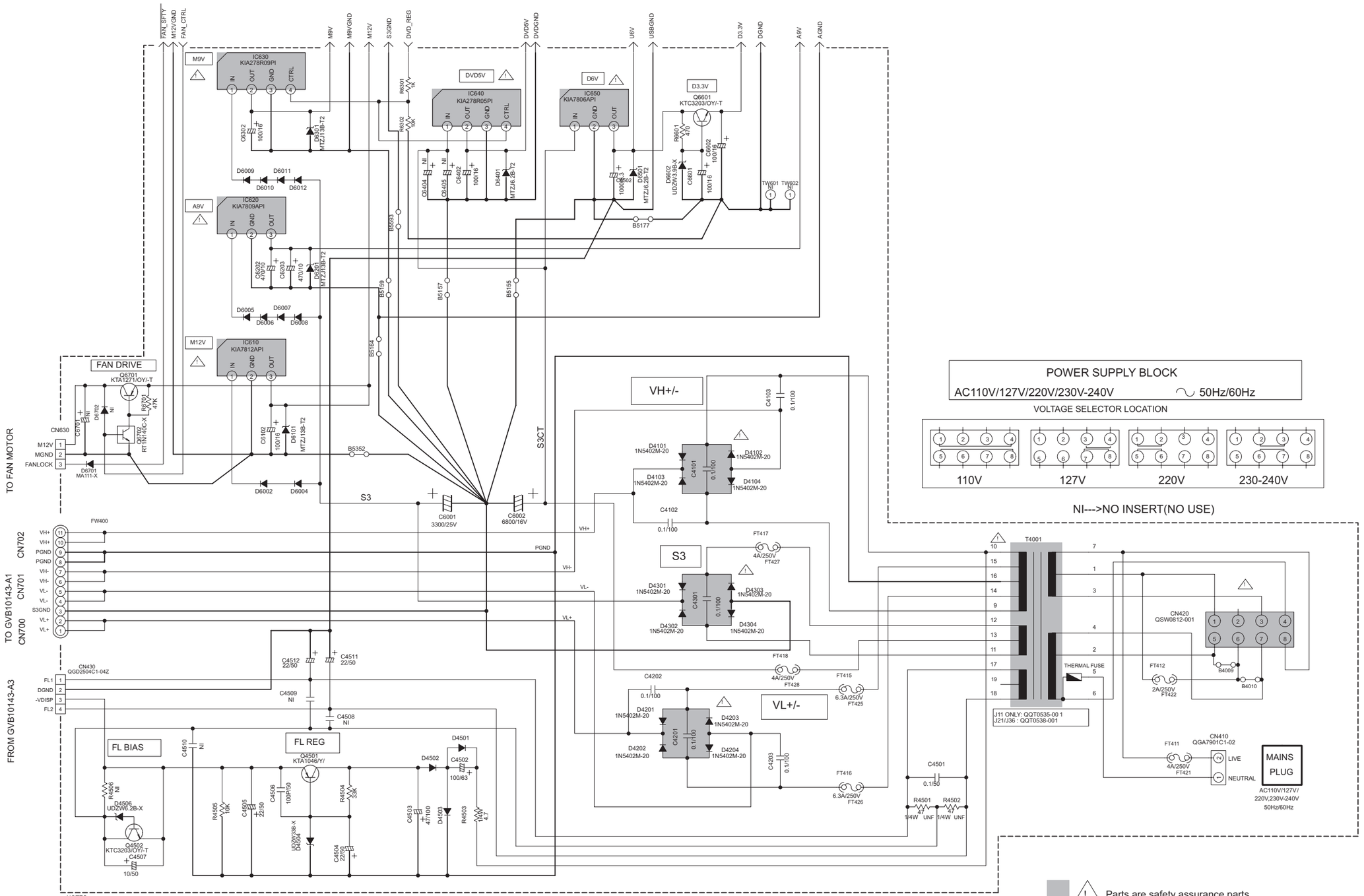


Block diagram (For DX-J11 and DX-J21)



Standard schematic diagrams

■ Primary section (DX-J36)



NOTES

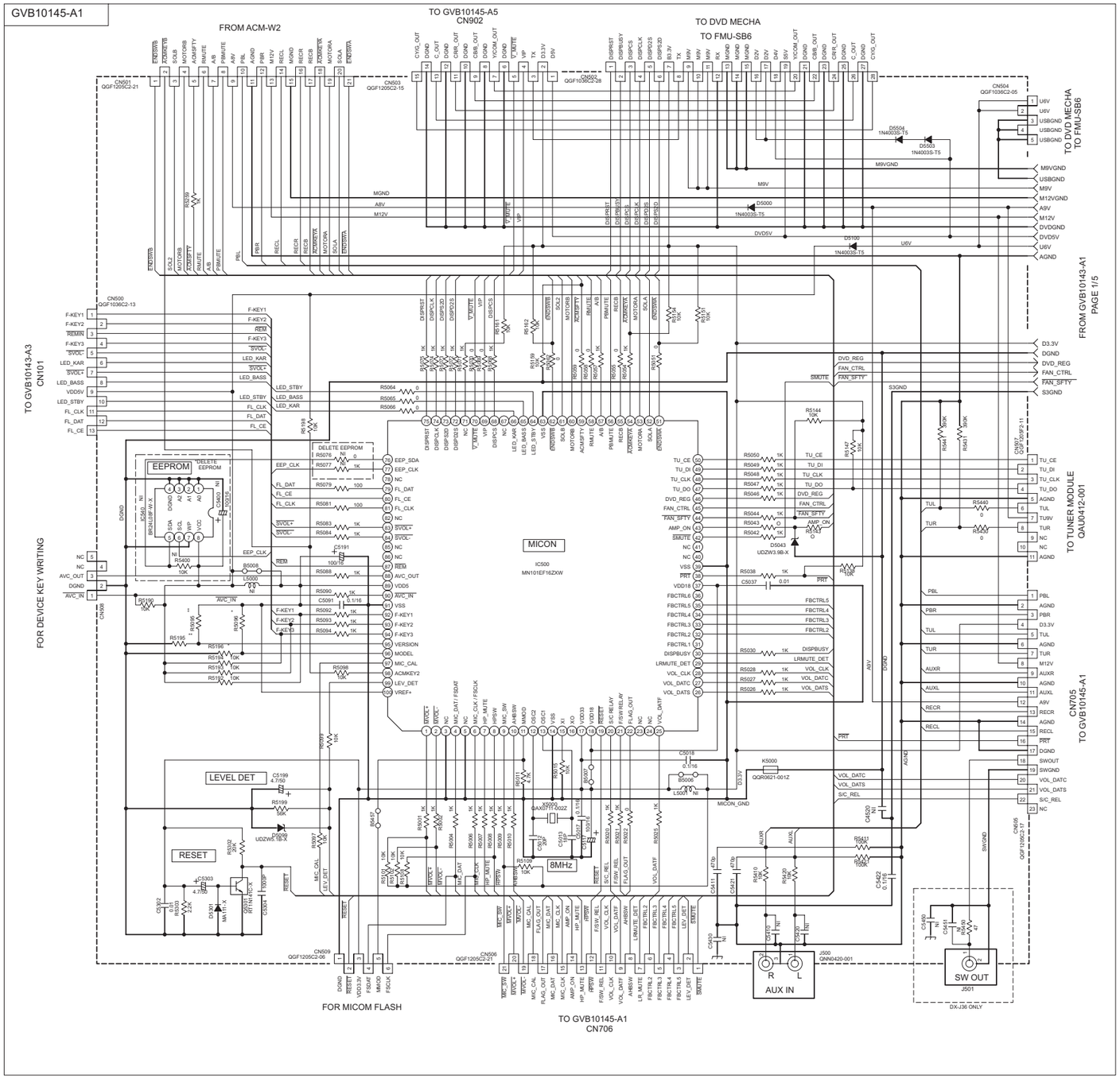
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLTMETER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- DVD STOP MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% CARBON FILM RESISTOR OR 0.625W ±5% THICK FILM CHIP RESISTOR
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).

ALL CAPACITANCE VALUES ARE IN 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).
ALL DIODES ARE 1N4003S-T5
NI = NON INSERT

VERSION	CN420	B4009	B4010
A/ EE	NI	NI	INSERT
UY	NI	INSERT	NI
OTHERS	INSERT	NI	NI

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

■ Micom section (DX-J36)



NOTES

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   CONDITION --- DVD STOP MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% CARBON FILM RESISTOR
   OR 0.625W ±5% THICK FILM CHIP RESISTOR
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL RESISTANCE VALUES AR E 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).
   ALL FERRITE BEADS ARE QQR0621-001Z
   NI = NON INSERT

DIGITAL TRANSISTOR CONSTRUCTION

SYMBOL	R1	R2	PART NO.
Q1	4.7K	-	RT1N144C-X
Q2	10K	47K	RT1N430C-X
Q3	4.7K	.	RT1P430C-X
Q4	10K	10K	RT1P141C-X

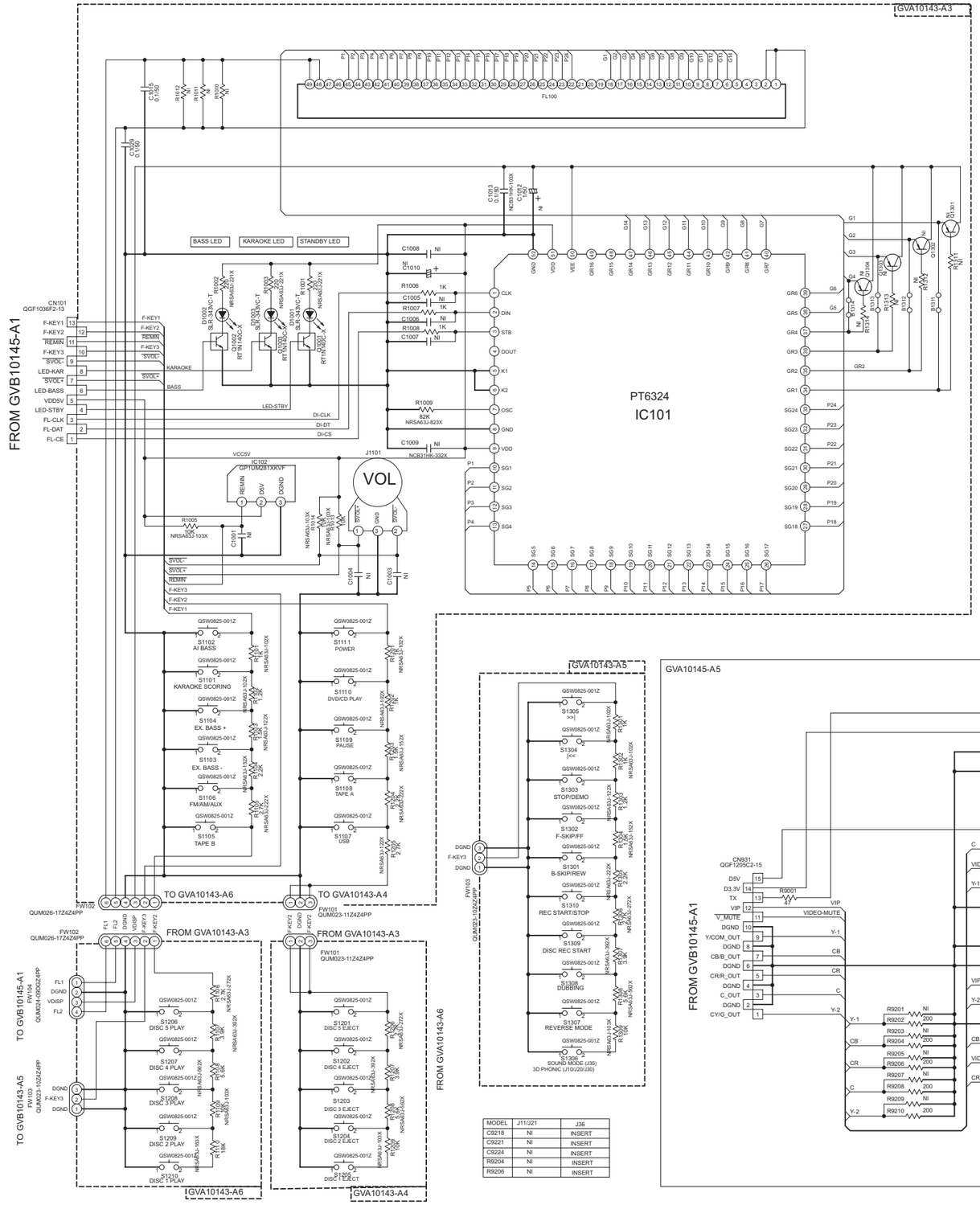
* MODEL INDICATION

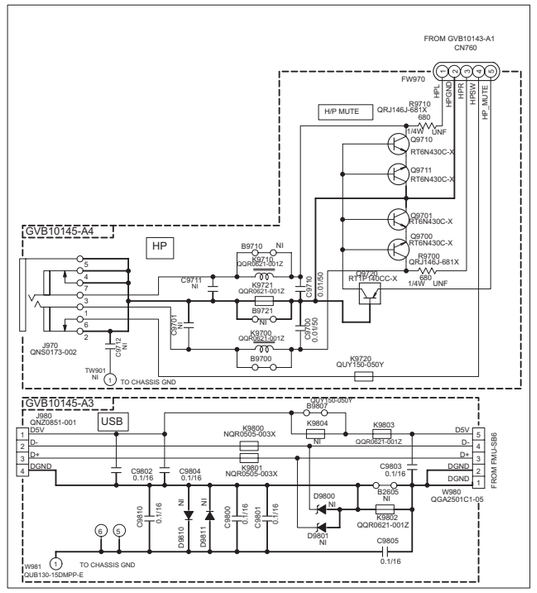
	J11	J21	J36
R5096	10K	10K	10K
R5196	NIL	NIL	15K

** VERSION INDICATION

	R5095	R5195
US/UN/UH/A	10K	NIL
UW/UY	10K	18K
UX/UG	10K	5.6K
EE	NIL	10K

■ Front section (DX-J36)



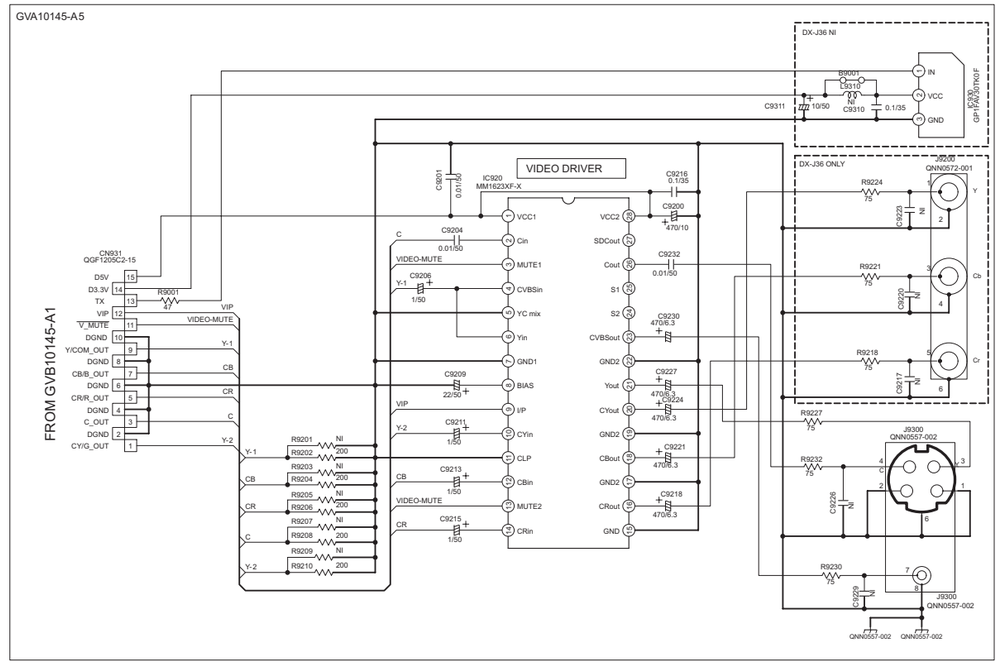


DIGITAL TRANSISTOR CONSTRUCTION

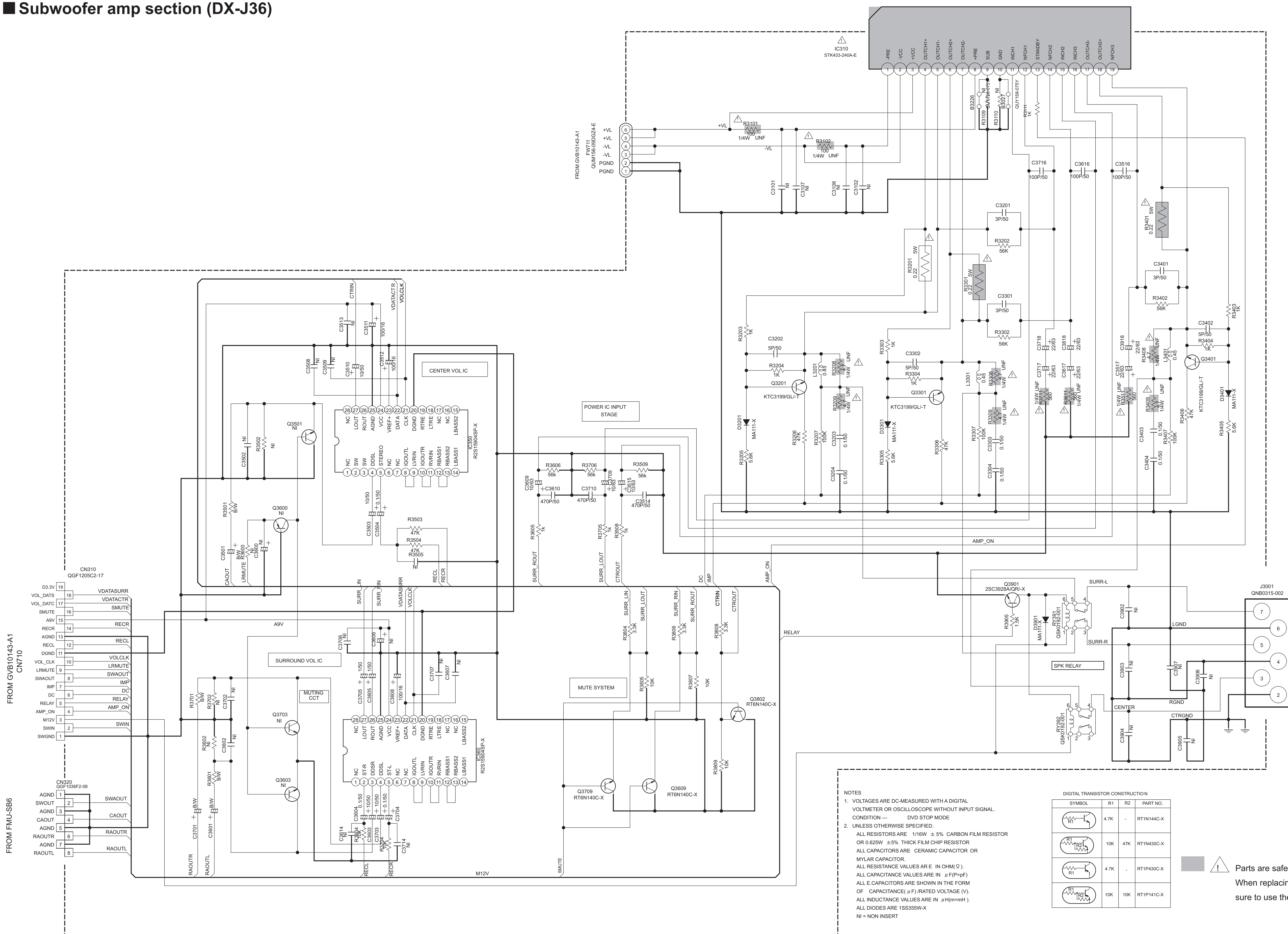
SYMBOL	R1	R2	PART NO.
	4.7K	-	RT1N144C-X
	10K	47K	RT1N430C-X
	4.7K	-	RT1P430C-X
	10K	10K	RT1P141C-X

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITA L VOLTMETER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- DVD STOP MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% CARBON FILM RESISTOR OR 0.625W ±5% THICK FILM CHIP RESISTOR
   ALL CAPACITORS ARE CERAMIC CAPACITO R OR MYLAR CAPACITOR.
   ALL RESISTANCE VALUES AR E 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).
   ALL DIODES ARE MA111-X
   NI = NON INSERT

MODEL	J11/J21	J36
C9218	NI	INSERT
C9221	NI	INSERT
C9224	NI	INSERT
R9204	NI	INSERT
R9206	NI	INSERT



Subwoofer amp section (DX-J36)



NOTES

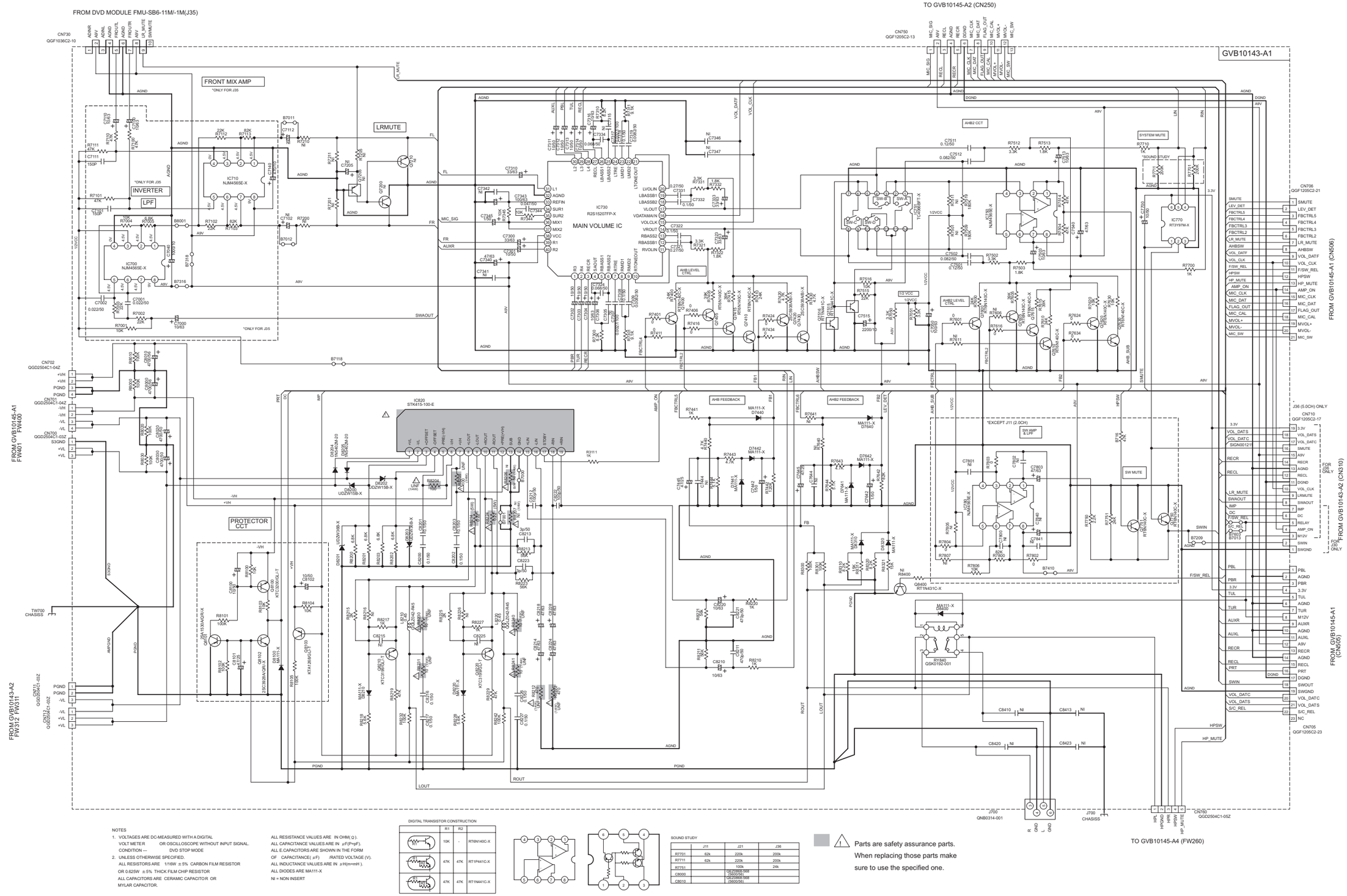
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLTMETER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- DVD STOP MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ± 5% CARBON FILM RESISTOR OR 0.625W ±5% THICK FILM CHIP RESISTOR
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL RESISTANCE VALUES AR E 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).
   ALL DIODES ARE 1SS355W-X
   NI = NON INSERT

DIGITAL TRANSISTOR CONSTRUCTION

SYMBOL	R1	R2	PART NO.
R1	4.7K	-	RT1N144C-X
R1 R2	10K	47K	RT1N430C-X
R1	4.7K	-	RT1P430C-X
R1 R2	10K	10K	RT1P141C-X

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

■ Audio section (DX-J36)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- DVD STOP MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% CARBON FILM RESISTOR OR 0.625W ±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 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).
ALL DIODES ARE MA111-X
NI = NON INSERT

DIGITAL TRANSISTOR CONSTRUCTION

	R1	R2	
NI	10K	-	RT6N140C-X
NI	47K	47K	RT1P441C-X
NI	47K	47K	RT1N441C-X

SOUND STUDY

	J11	J21	J36
R7701	62k	220k	200k
R7711	62k	220k	200k
R7751		100k	24k
C8000		470(2/6/5.1ch) 1000(7.1ch)	
C8010		680(2/6/5.1ch) 1500(7.1ch)	

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

■ Cassette control section (DX-J36)

GVA10149

QAL0968-001 (R/P 2WAY)

QAL0966-001 (PB 1WAY)
QAL0967-001 (PB 2WAY)

CN120 QGF1205C2-07

CN110 QGF1205F2-06

CN200 RECORD PLAYBACK HEAD QGA2001C1-07

CN220 QGA2001F1-03 /WJK0243-001A-E PLAYBACK HEAD

RECORDING CURRENT NORM 36uA
ERASE CURRENT NORM 70mA

IC200 HA12237F-E

SOLENOID DRIVE B — Q150 KTA1296(Y)-T — MOTOR DRIVE B — Q140 KTA1271(OY)-T — Q151 RT1N144C-X — Q141 RT1N144C-X

SOLENOID DRIVE A — Q120 KTA1296(Y)-T — MOTOR DRIVE A — Q110 KTA1271(OY)-T — Q121 RT1N144C-X — Q111 RT1N144C-X

BIAS OSC

TP300 BIAS FRQ CHECK POINT

WR1 WJZ0160-004A — CONNECT TO CHASSIS OF MECHA A & B

CN100 QGF1205C2-21

ENDSW-A, SOL-A, MOTOR-A, KEY-A, HSW+RECB, REC-B, REC-I, M12V, PBR, AG, PBL, BIAS, PBMUTE, A/B, RMUTE, SAFETY, MOTOR-B, SOL-B, KEY-B, ENDSW-B

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 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).
   POLYPROPYLENE CAPACITOR

KRC107S-X RT1N144C-X — KRA102S-X RT1P141C-X — RT6N430C — RT1P430C-X

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

■ Front end section 1 (DX-J36)

PICKUP ASS'Y

QAL0786-***

(OPA-652PH*)

TRA MECHA ASS'Y
FXL-D20-1M

FEED MOTOR

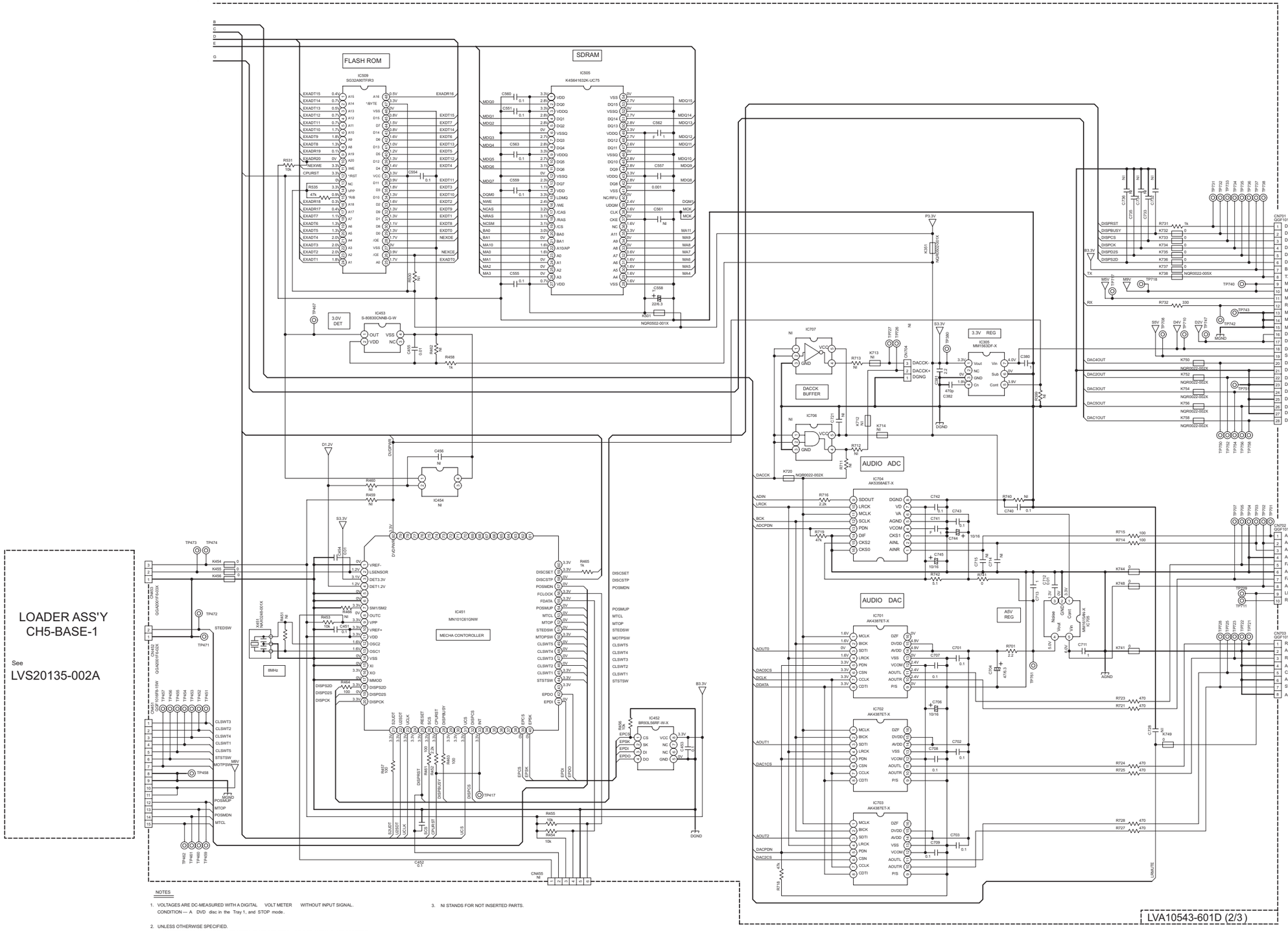
QAR0165-001

SPINDLE MOTOR

QAR0334-002

LVA10543-601D (1/2)

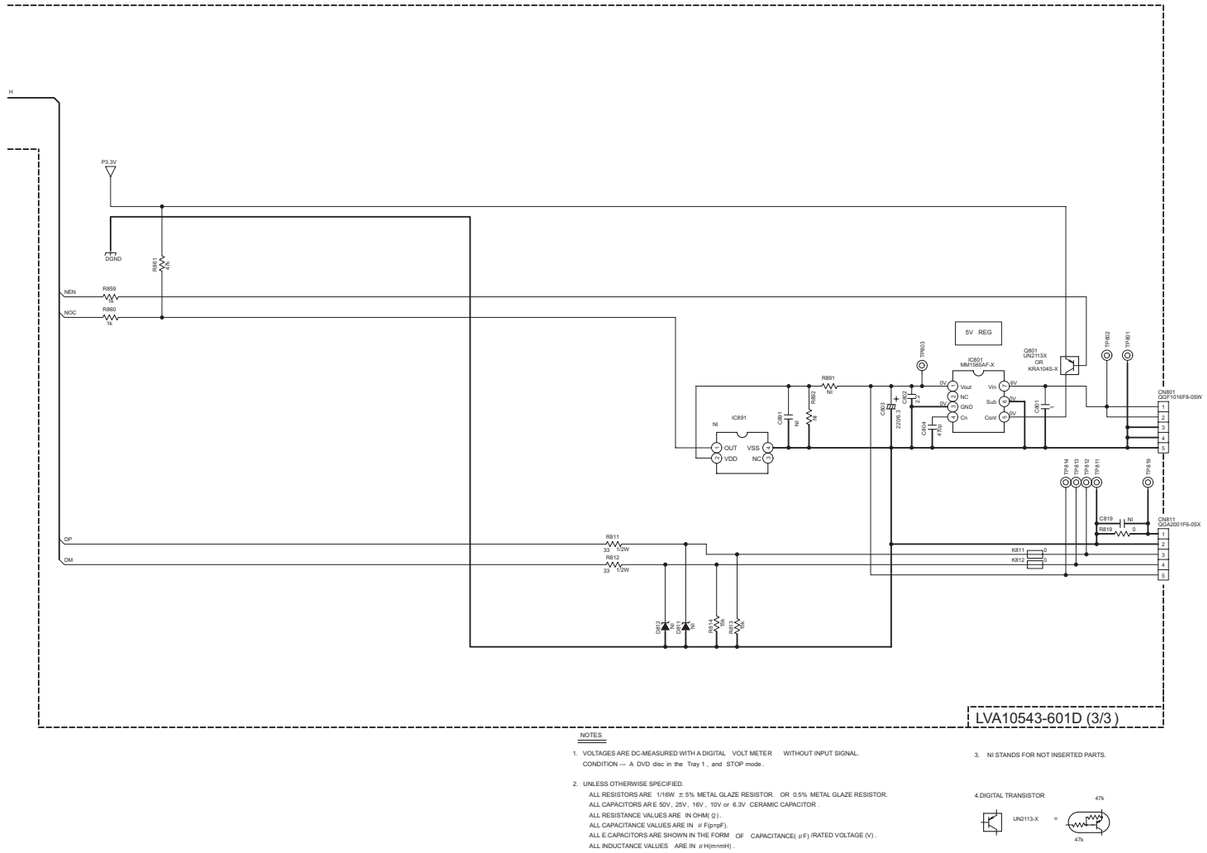
■ Front end section 2 (DX-J36)



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 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.

■ Front end section 3 (DX-J36)

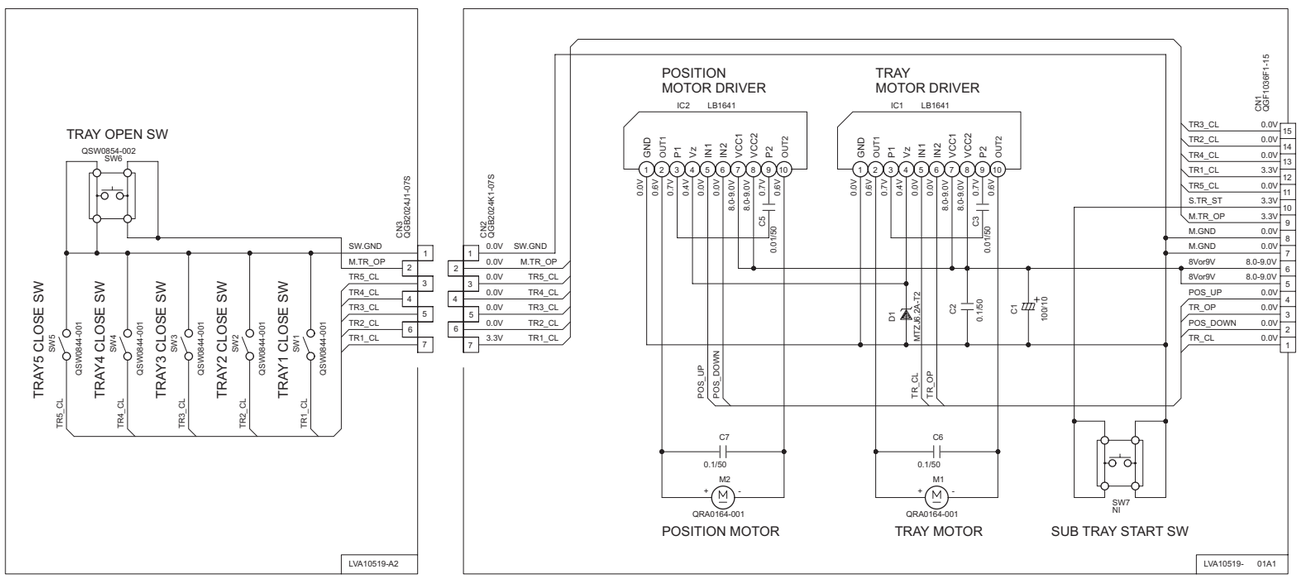


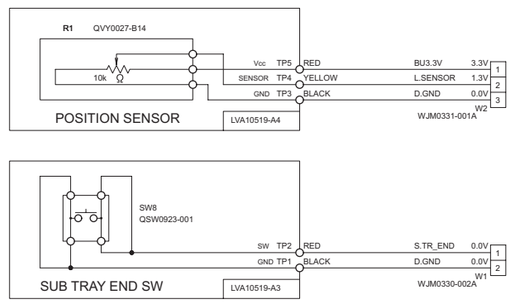
LVA10543-601D (3/3)

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 OHM(Ω) .
   ALL CAPACITANCE VALUES ARE IN μ F(=pF) .
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μ F) /RATED VOLTAGE (V) .
   ALL INDUCTANCE VALUES ARE IN μ H(mmH) .
3. NI STANDS FOR NOT INSERTED PARTS.
4. DIGITAL TRANSISTOR

■ Loader section (DX-J36)

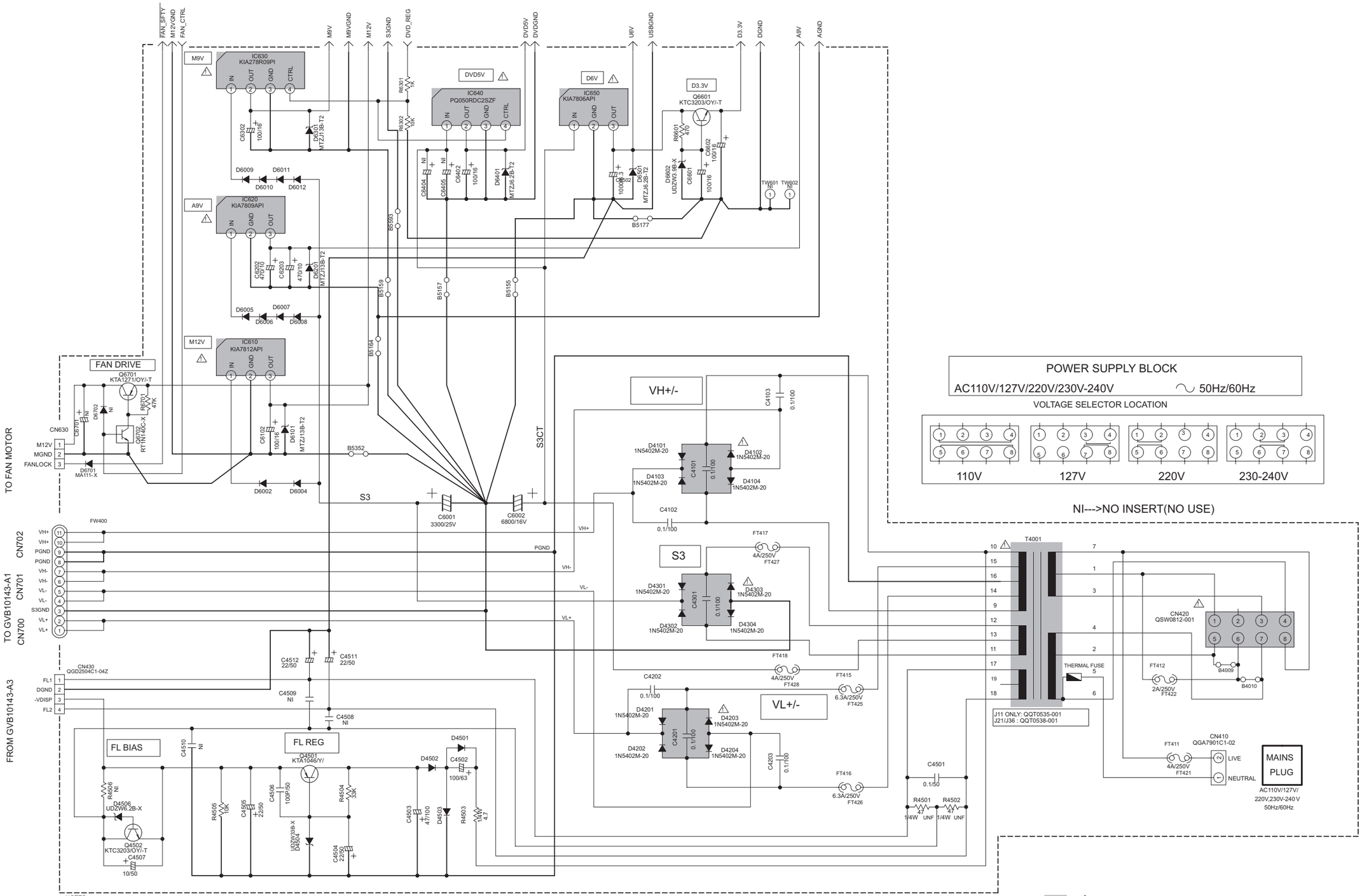




NOTES

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.

■ Primary section (DX-J21,DX-J11)



NOTES

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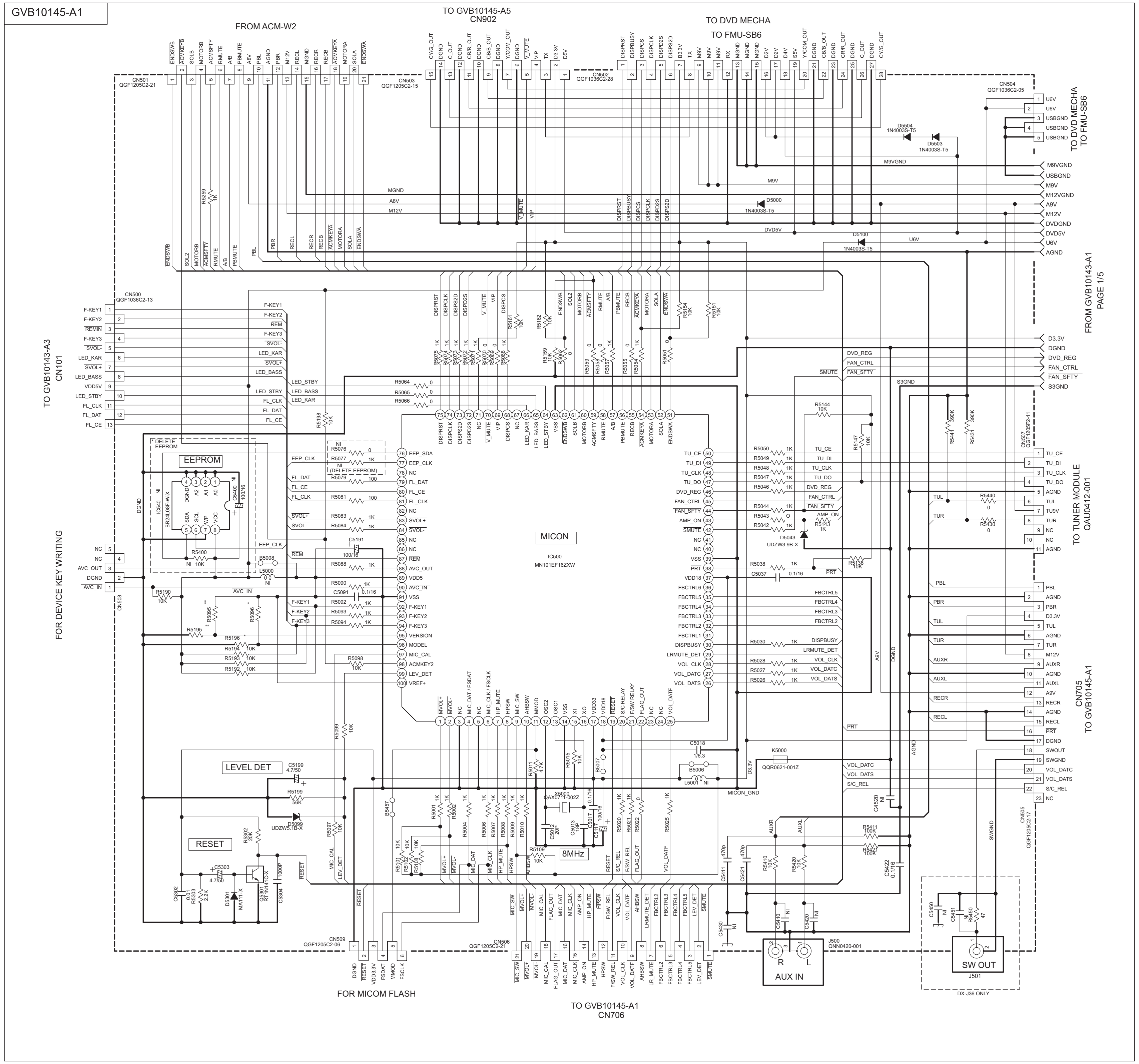
   ALL RESISTANCE VALUES ARE IN OHM(Ω).

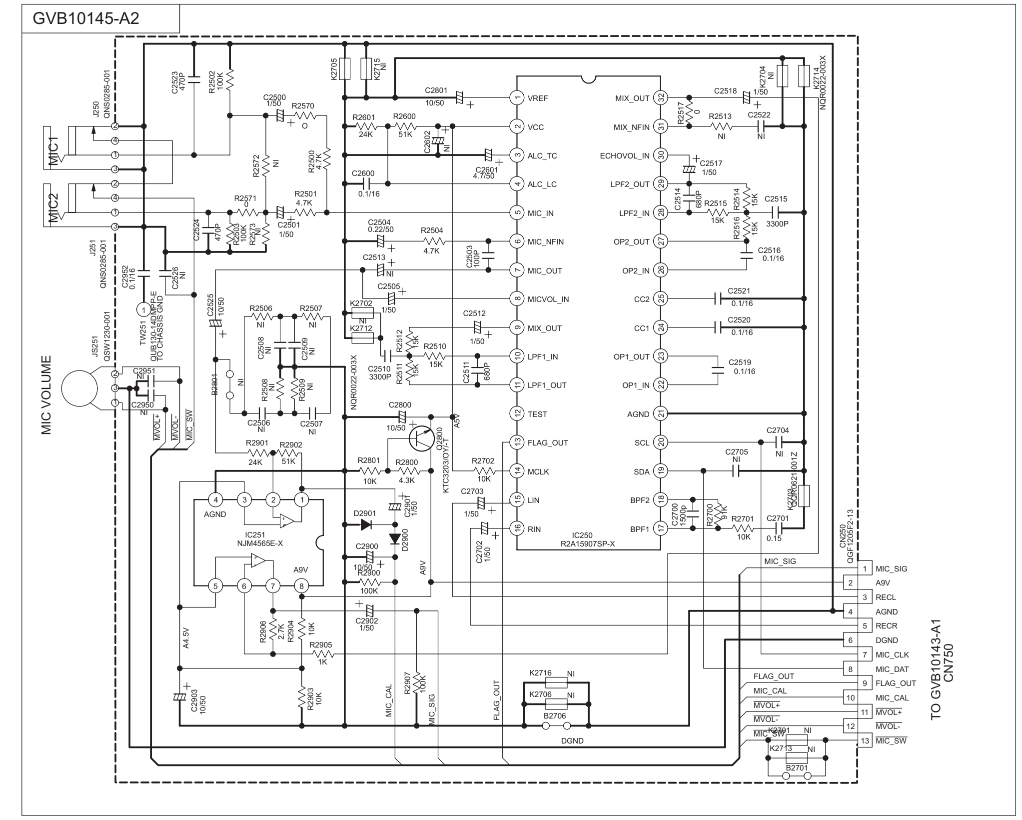
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL DIODES ARE 1N4003S-T5
NI = NON INSERT

VERSION	CN420	B4009	B4010
A/ EE	NI	NI	INSERT
UY	NI	INSERT	NI
OTHERS	INSERT	NI	NI

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

■ Micom section (DX-J21,DX-J11)





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   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).
   ALL FERRITE BEADS ARE QQR0621-001Z
   NI = NON INSERT

DIGITAL TRANSISTOR CONSTRUCTION

SYMBOL	R1	R2	PART NO.
Q1	4.7K	-	RT1N144C-X
Q3	10K	47K	RT1N430C-X
Q2	4.7K	-	RT1P430C-X
Q4	10K	10K	RT1P141C-X

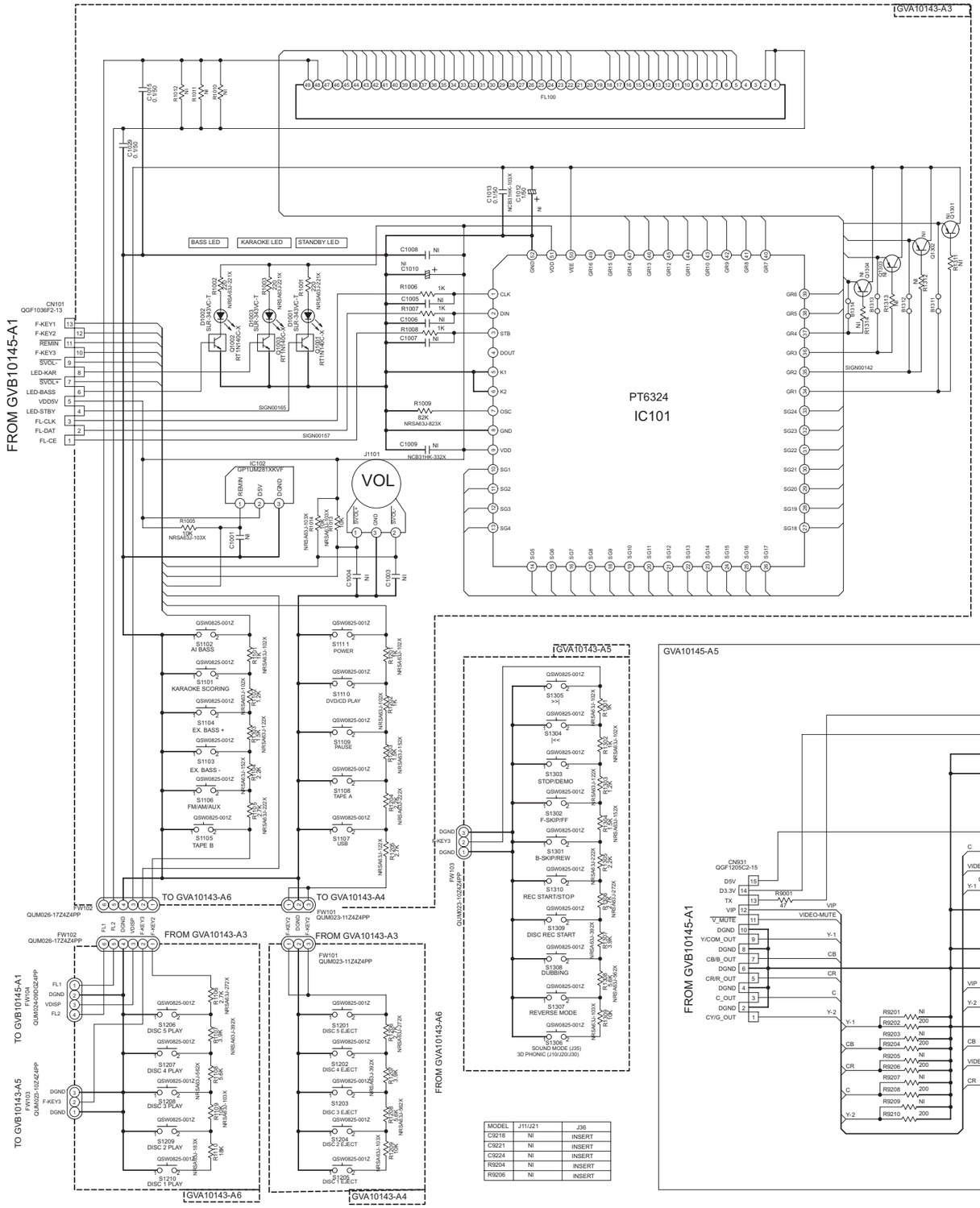
* MODEL INDICATION

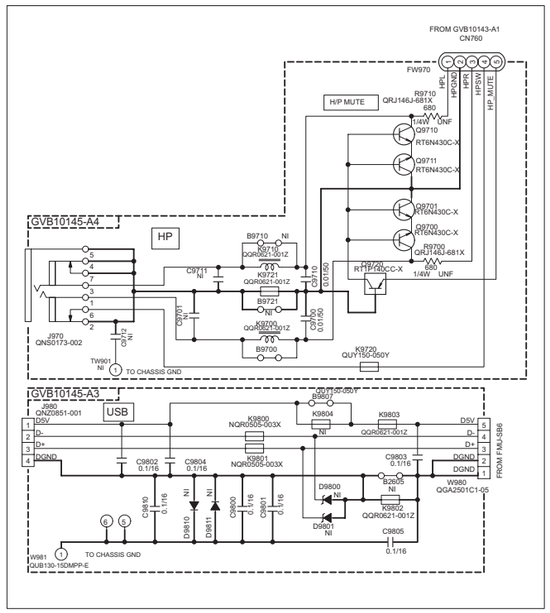
	J11	J21	J36
R5096	10K	10K	10K
R5196	NIL	NIL	15K

** VERSION INDICATION

	R5095	R5195
US/UN/UH/A	10K	NIL
UW/UY	10K	18K
UX/UG	10K	5.6K
EE	NIL	10K

■ Front section (DX-J21,DX-J11)





DIGITAL TRANSISTOR CONSTRUCTION

SYMBOL	R1	R2	PART NO.
	4.7K	-	RT1N144C-X
	10K	47K	RT1N430C-X
	4.7K	.	RT1P430C-X
	10K	10K	RT1P141C-X

NOTES

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2. UNLESS OTHERWISE SPECIFIED.
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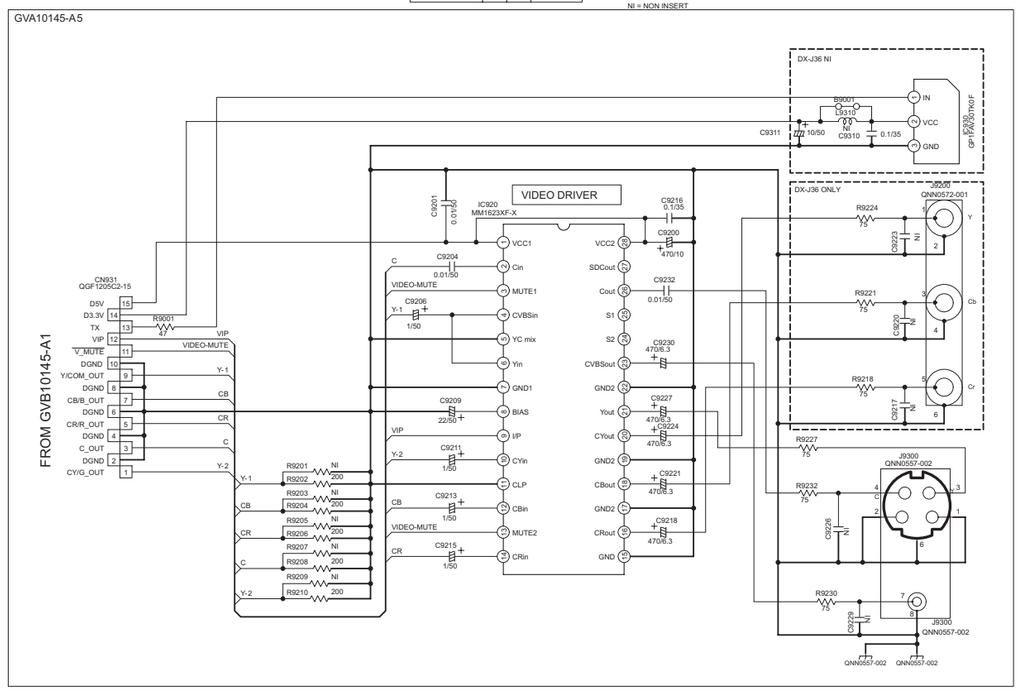
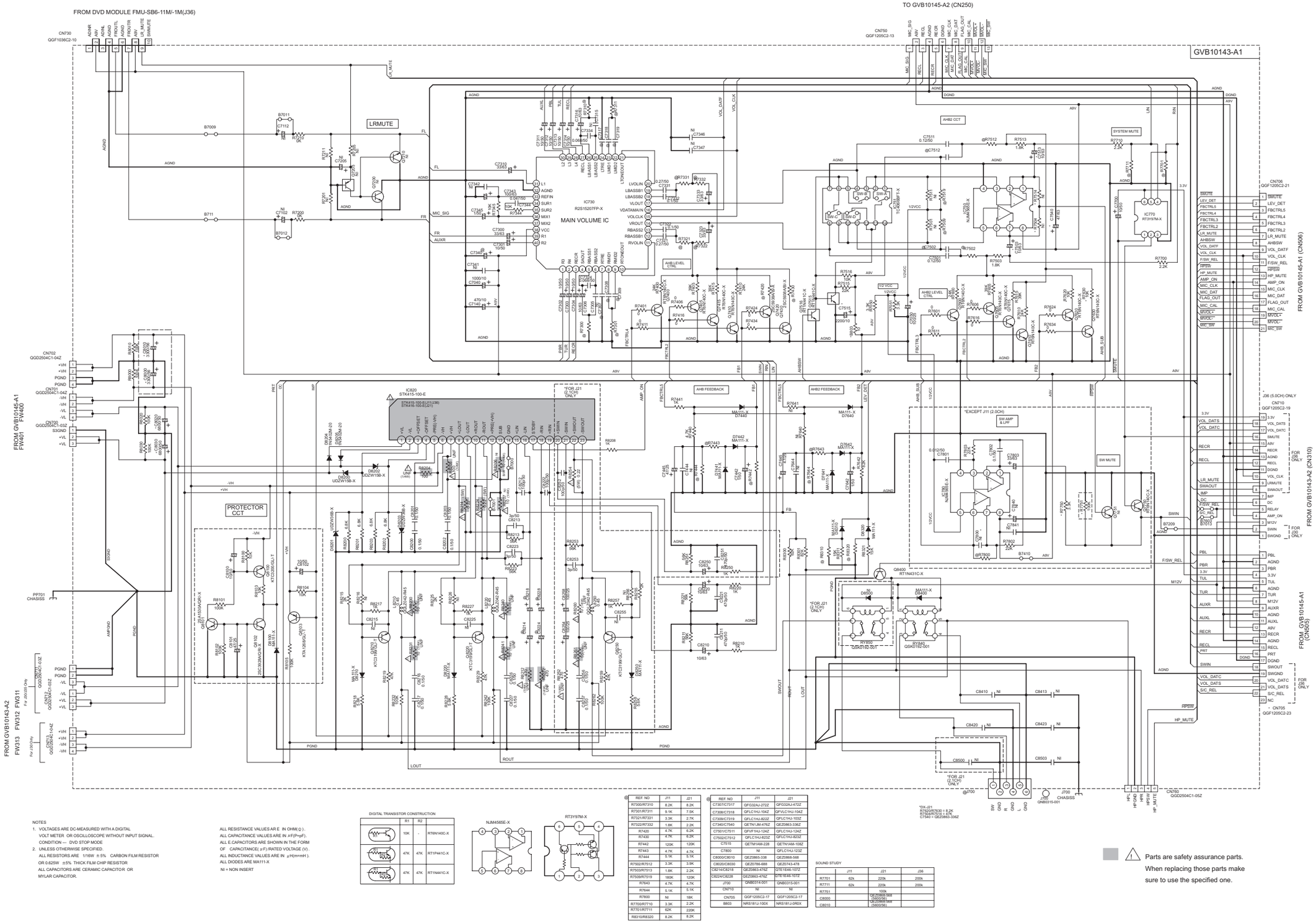
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V) .
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL DIODES ARE MA111-X
   NI = NON INSERT

MODEL	J11/J21	J36
C9218	NI	INSERT
C9221	NI	INSERT
C9224	NI	INSERT
R9204	NI	INSERT
R9206	NI	INSERT



■ Audio section (DX-J21,DX-J11)



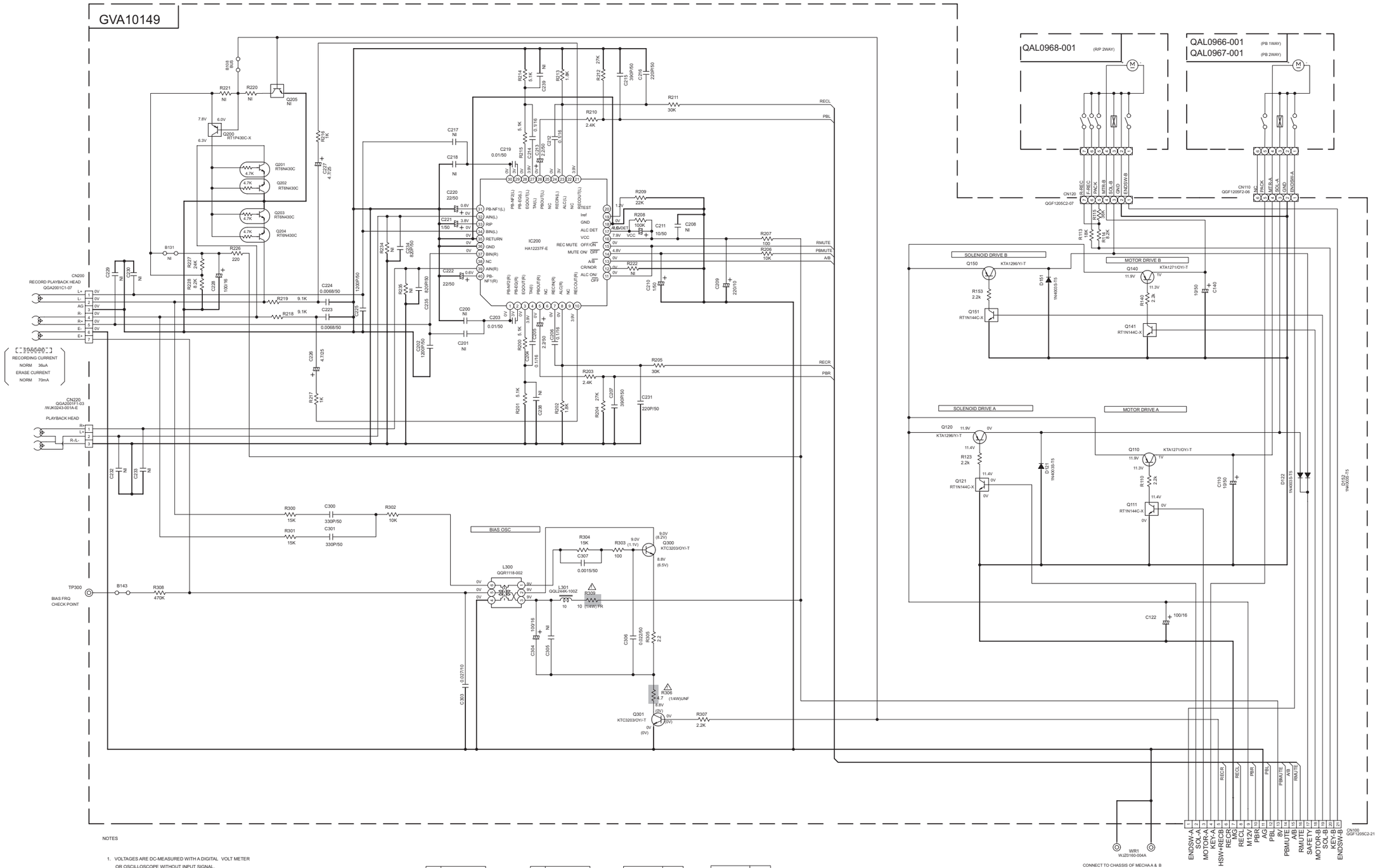
	R1	R2	
	10K	-	RT6N140C-X
	47K	47K	RT1P441C-X
	47K	47K	RT1N441C-X

REF. NO	J11	J21
R7300/R7310	8.2K	8.2K
R7301/R7311	9.1K	7.5K
R7321/R7331	3.3K	2.7K
R7322/R7332	1.8K	2.2K
R7420	4.7K	6.2K
R7430	4.7K	6.2K
R7442	120K	120K
R7443	4.7K	4.7K
R7444	5.1K	5.1K
R7502/R7512	3.3K	3.9K
R7503/R7513	1.8K	2.2K
R7509/R7519	180K	120K
R7643	4.7K	4.7K
R7644	5.1K	5.1K
R7800	NI	18K
R7706/R7710	3.3K	2.2K
R7701/R7711	62K	220K
R8310/R8320	8.2K	8.2K

REF. NO	J11	J21
C7307/C7317	QFS32AJ-272Z	QFS32AJ-472Z
C7308/C7318	QFLC19J-104Z	QFVLC19J-104Z
C7309/C7319	QFLC19J-822Z	QFLC19J-103Z
C7340/C7540	QETN1JM-476Z	QEZ0863-336Z
C7501/C7511	QFVF1HJ-124Z	QFLC19J-124Z
C7502/C7512	QFLC19J-823Z	QFLC19J-823Z
C7515	QETM1AM-228	QETN1AM-108Z
C7800	NI	QFLC19J-123Z
C8000/C8010	QEZ0865-338	QEZ0868-568
C8020/C8030	QEZ0786-688	QEZ0743-478
C8214/C8218	QEZ0863-476Z	QTE1E46-107Z
C8224/C8228	QEZ0863-476Z	QTE1E46-107Z
J700	QNB037-F001	QNB0315-001
CN710	NI	NI
CN705	QGF1205C2-17	QGF1205C2-17
B803	NRS181J-100X	NRS181J-0R0X

	J11	J21	J36
R7701	62k	220k	200k
R7711	62k	220k	200k
R7751		100k	
C8000		QEZ0868-568 (5600/95)	
C8010		QEZ0868-568 (5600/95)	

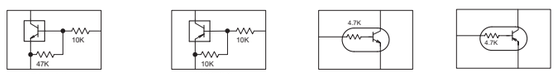
■ Cassette control section (DX-J21,DX-J11)



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 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).
   POLYPROPYLENE CAPACITOR



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

■ Front end section 1 (DX-J21,DX-J11)

PICKUP ASS'Y

QAL0786-***

(OPA-652PH*)

TRA MECHA ASS'Y
FXL-D20-1M

FEED MOTOR

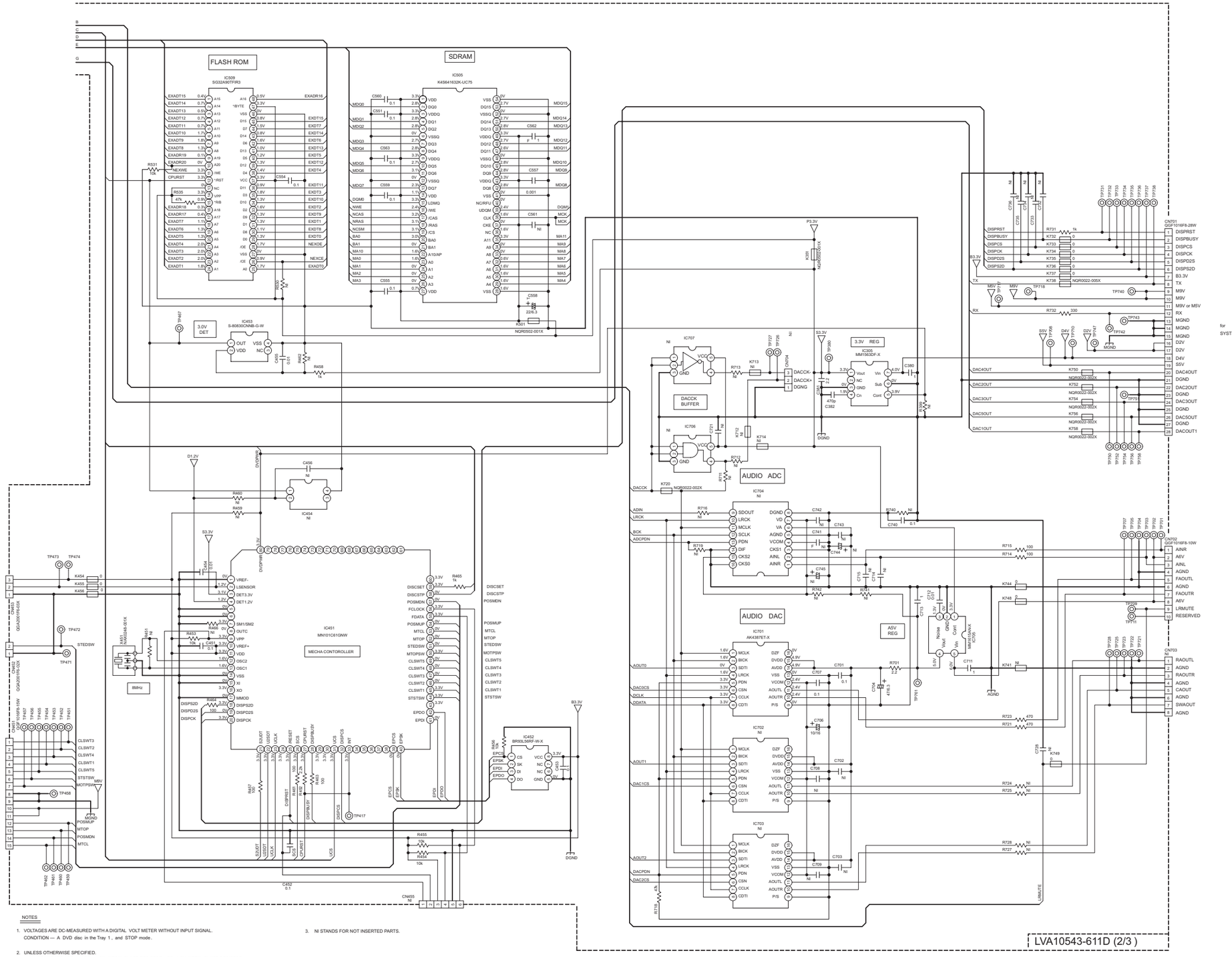
QAR0165-001

SPINDLE MOTOR

QAR0334-002

LVA10543-611D (1/2)

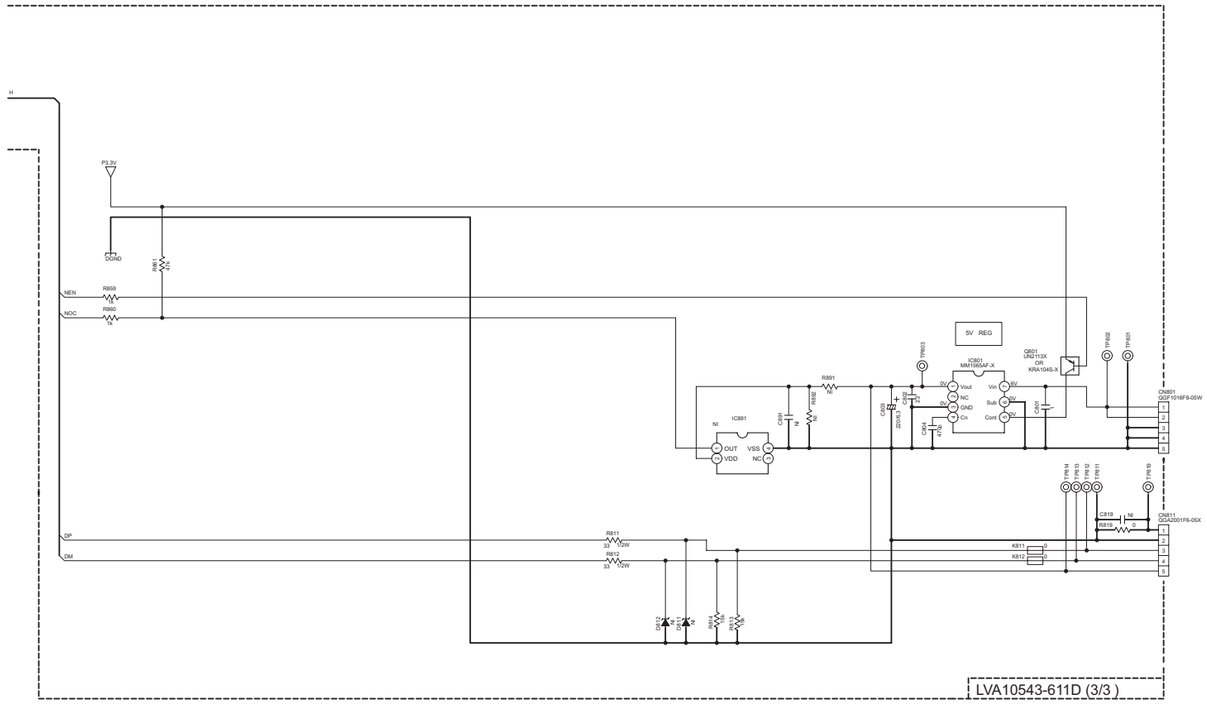
■ Front end section 2 (DX-J21,DX-J11)



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 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.

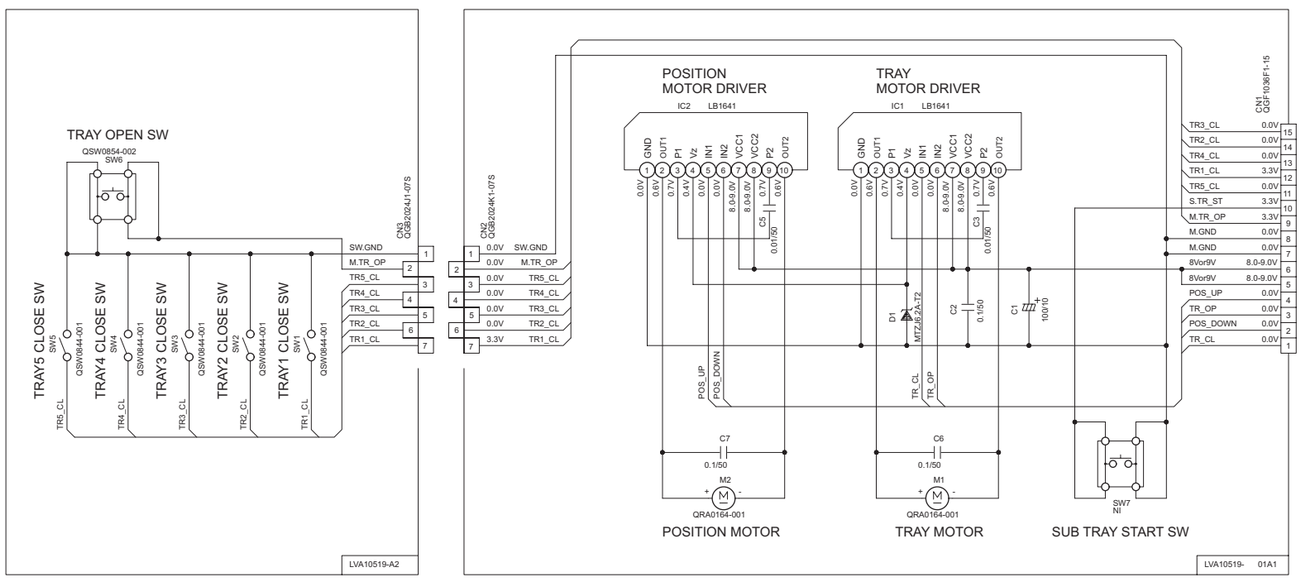
■ Front end section 3 (DX-J21,DX-J11)

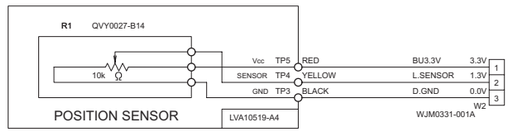


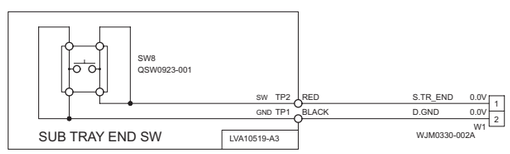
NOTES

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 OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN nF(=μF) .
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V) .
   ALL INDUCTANCE VALUES ARE IN nH(=mmH).
3. NI STANDS FOR NOT INSERTED PARTS.
4. DIGITAL TRANSISTOR

■ Loader section (DX-J21,DX-J11)







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.

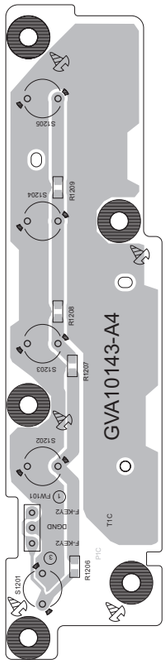
Printed circuit board

■ Main board

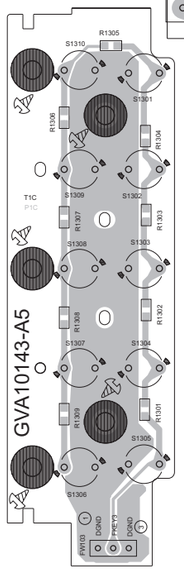
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

(Eject board)

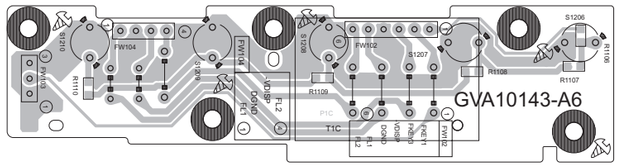


(Function board)

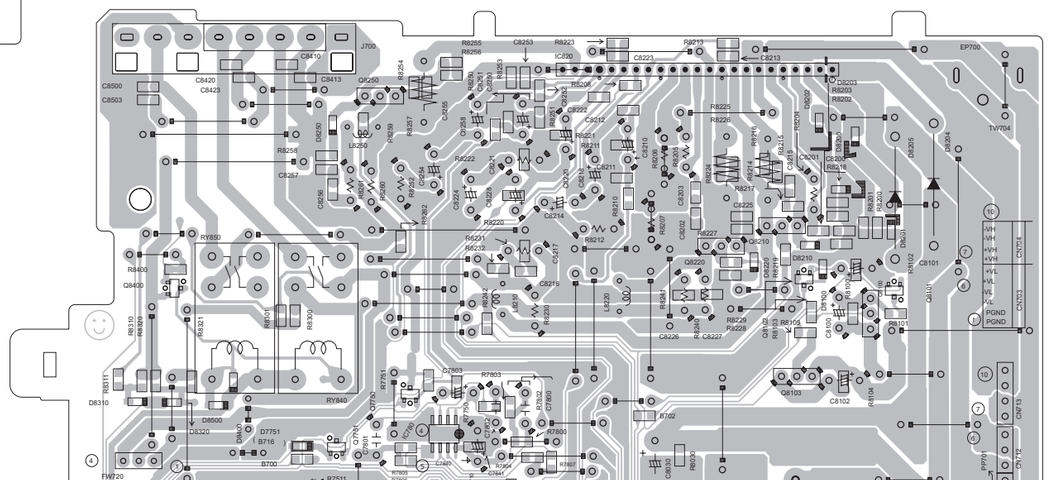


(Amp board)

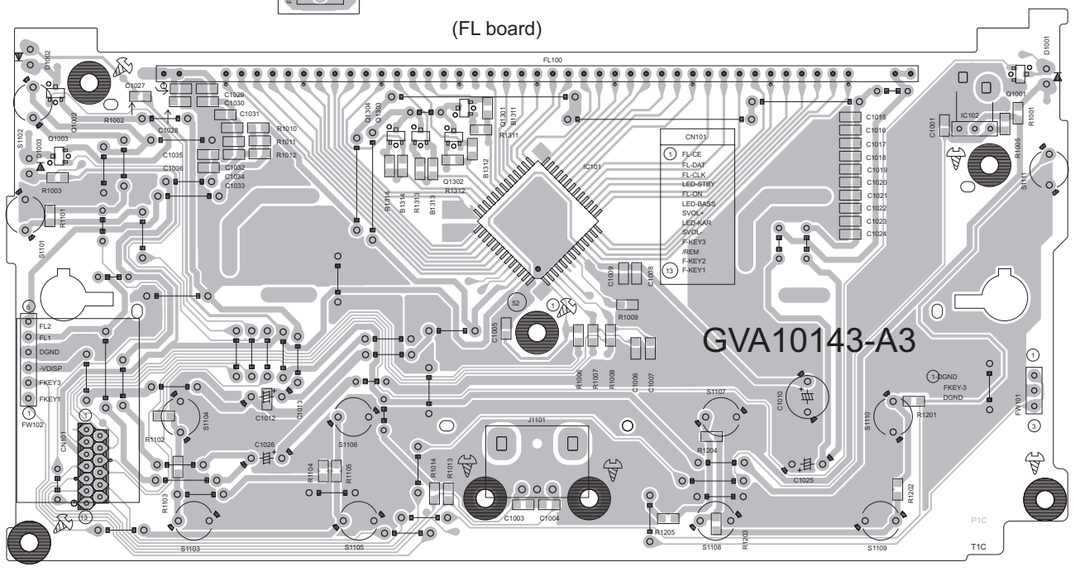
(Play board)



(Main board)



(FL board)

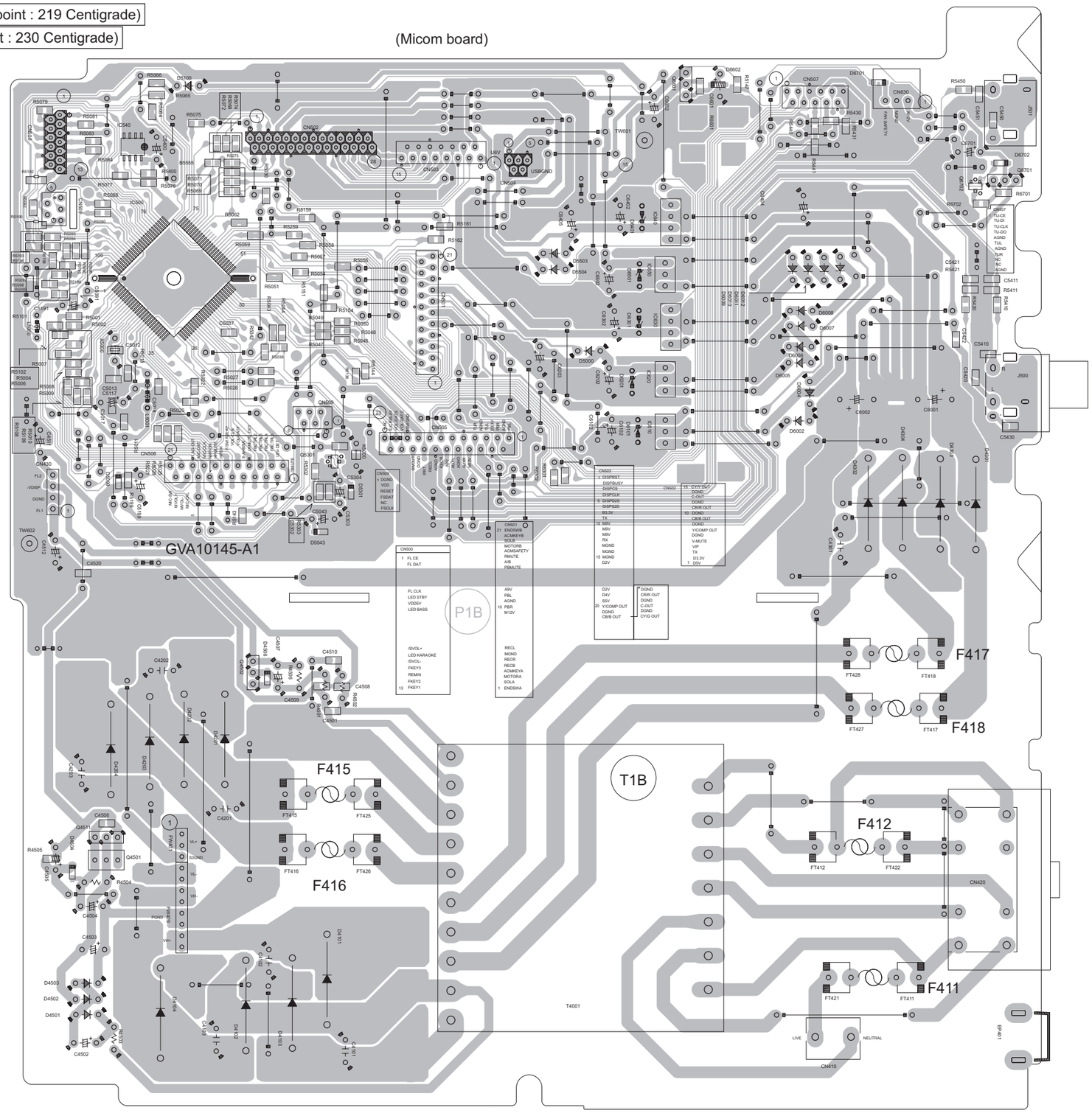


■ Micom board

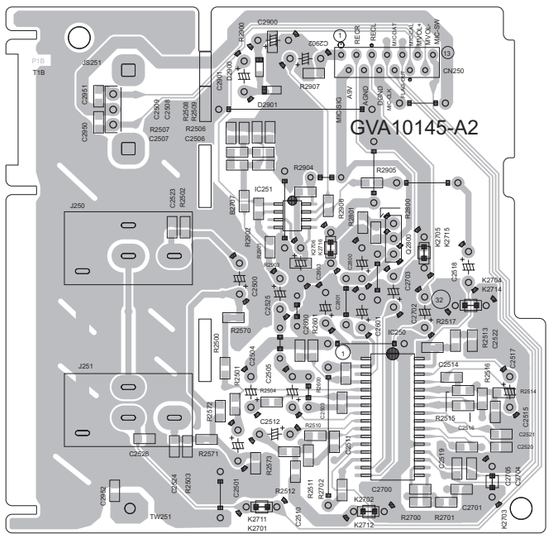
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

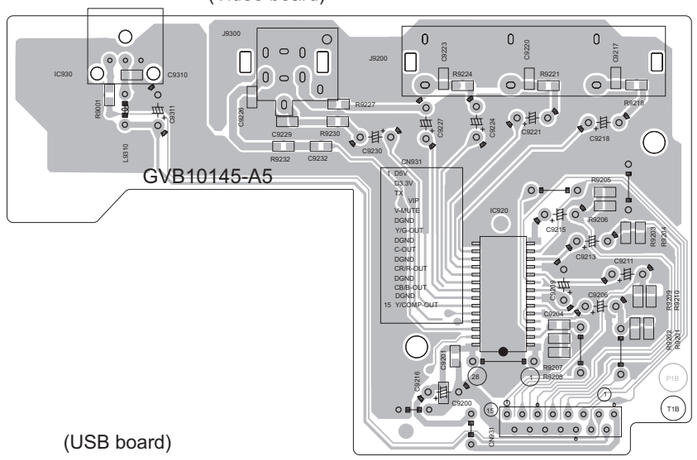
(Micom board)



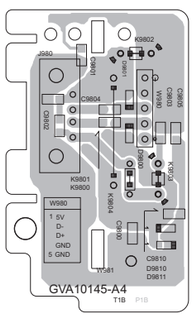
(Mic board)



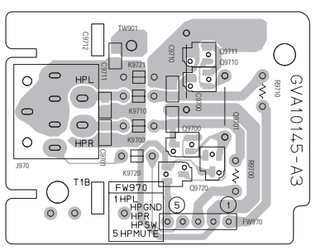
(Video board)



(USB board)



(Headphone board)

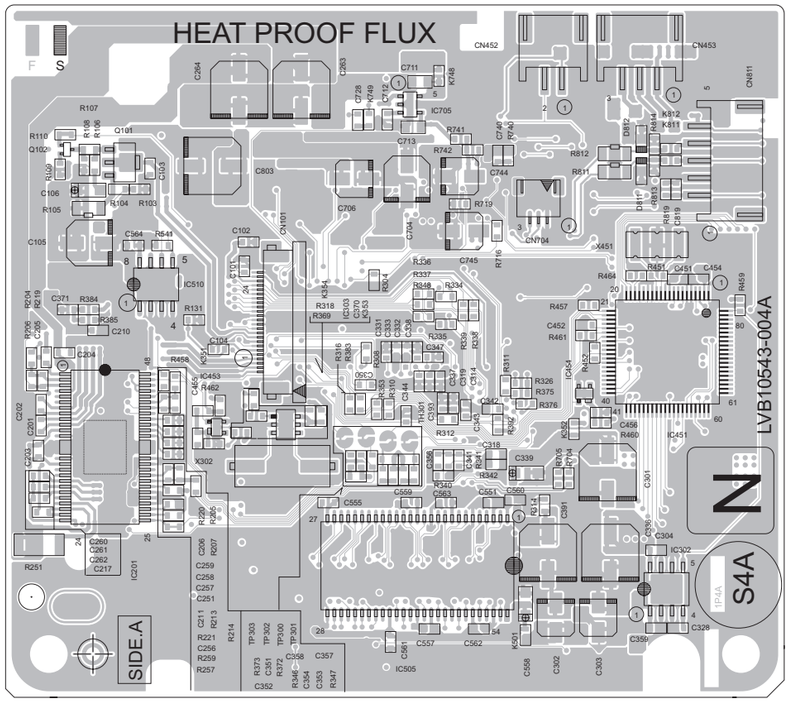


■ Front end board

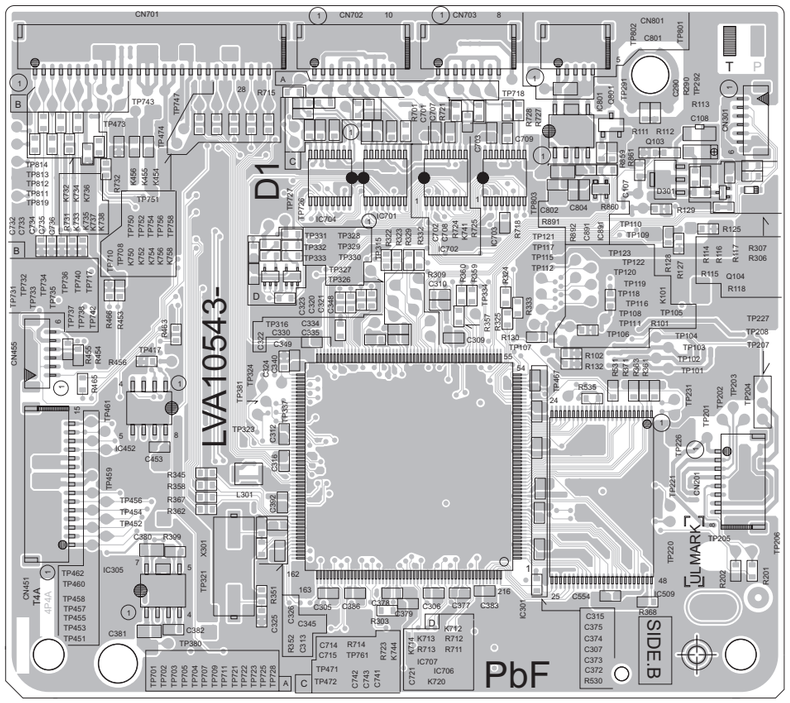
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

forward side



reverse side

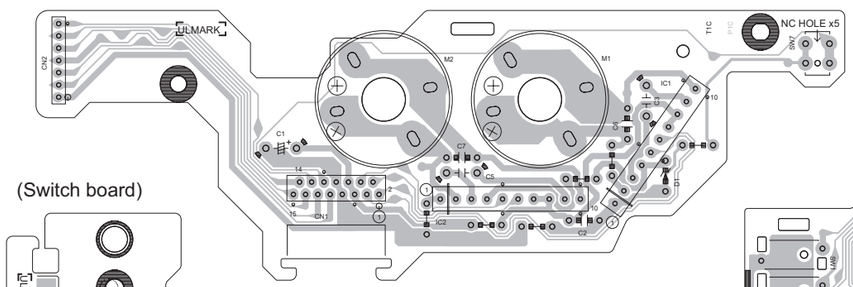


■ Loader board

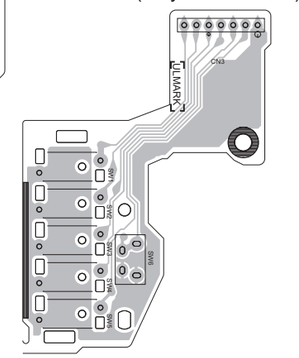
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

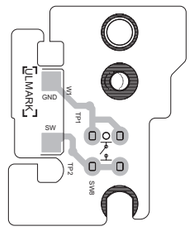
(Motor board)



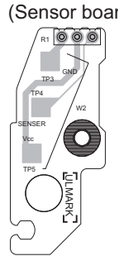
(Tray switch board)



(Switch board)



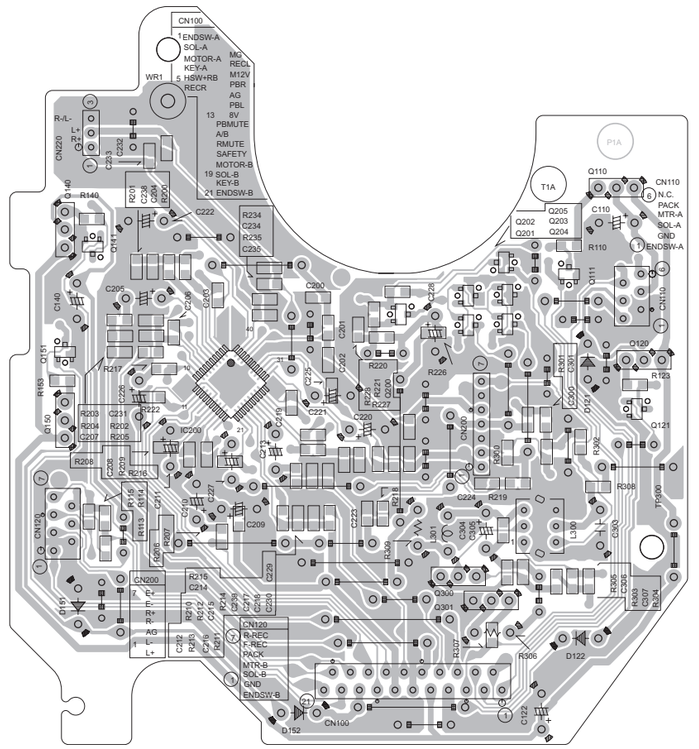
(Sensor board)



■ Cassette 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-Cu, melting point : 230 Centigrade)



< MEMO >

JVC

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