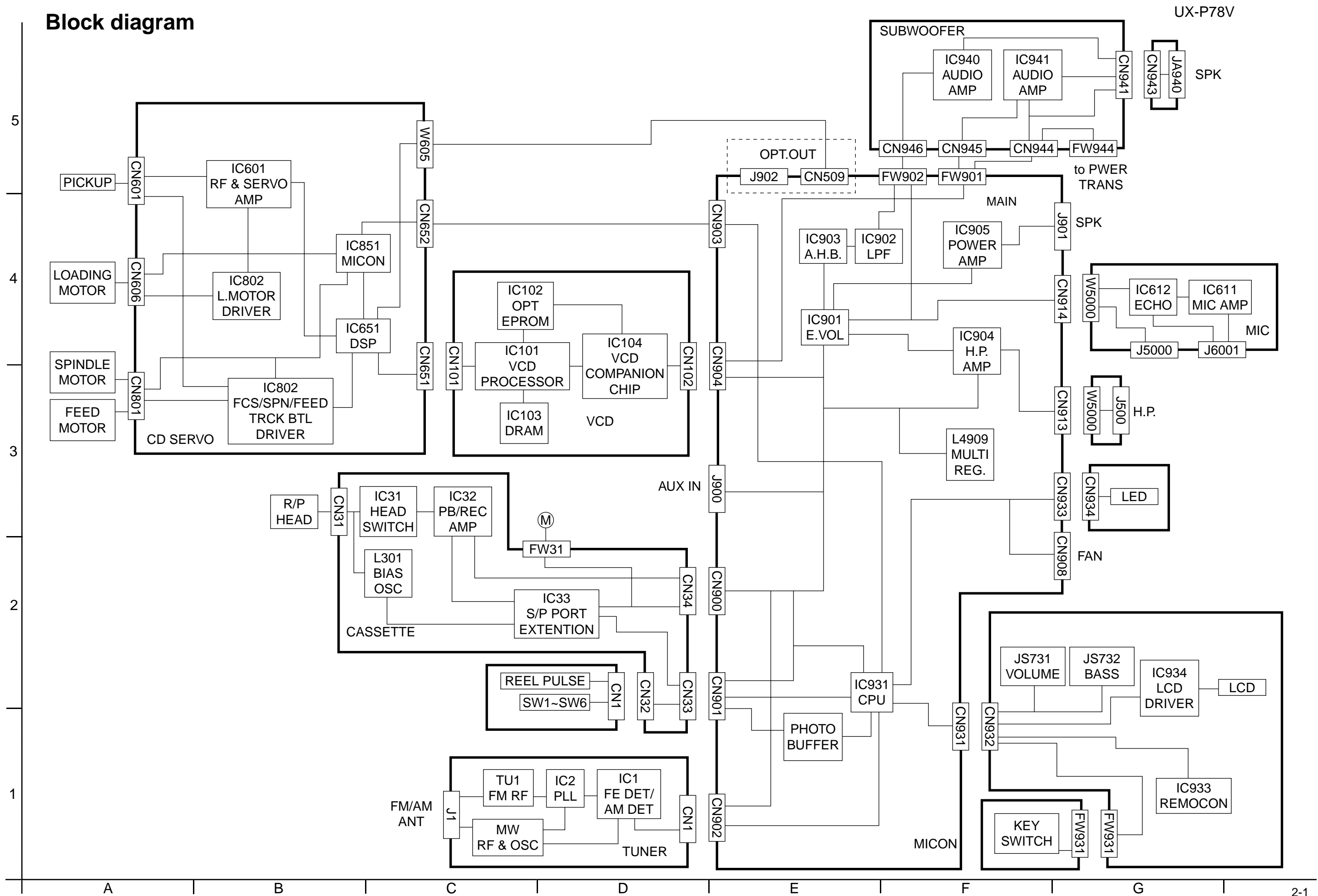


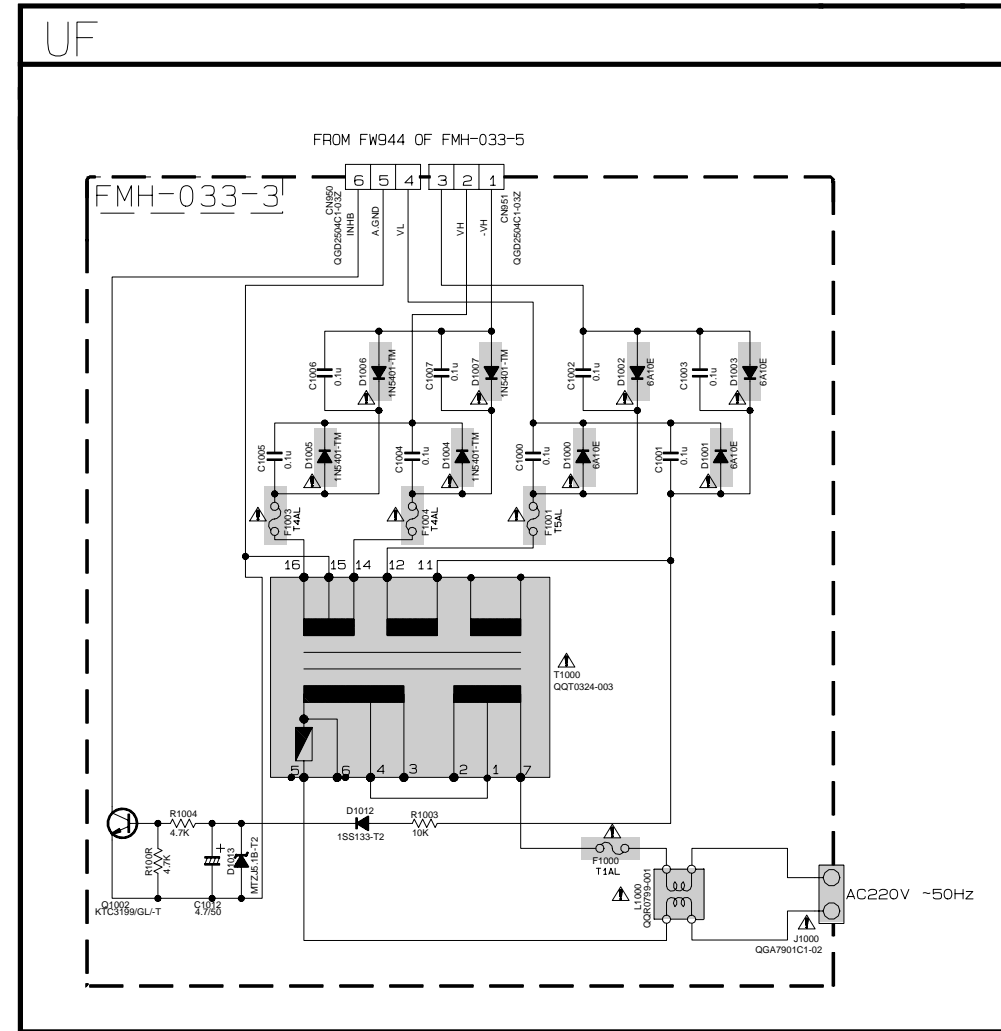
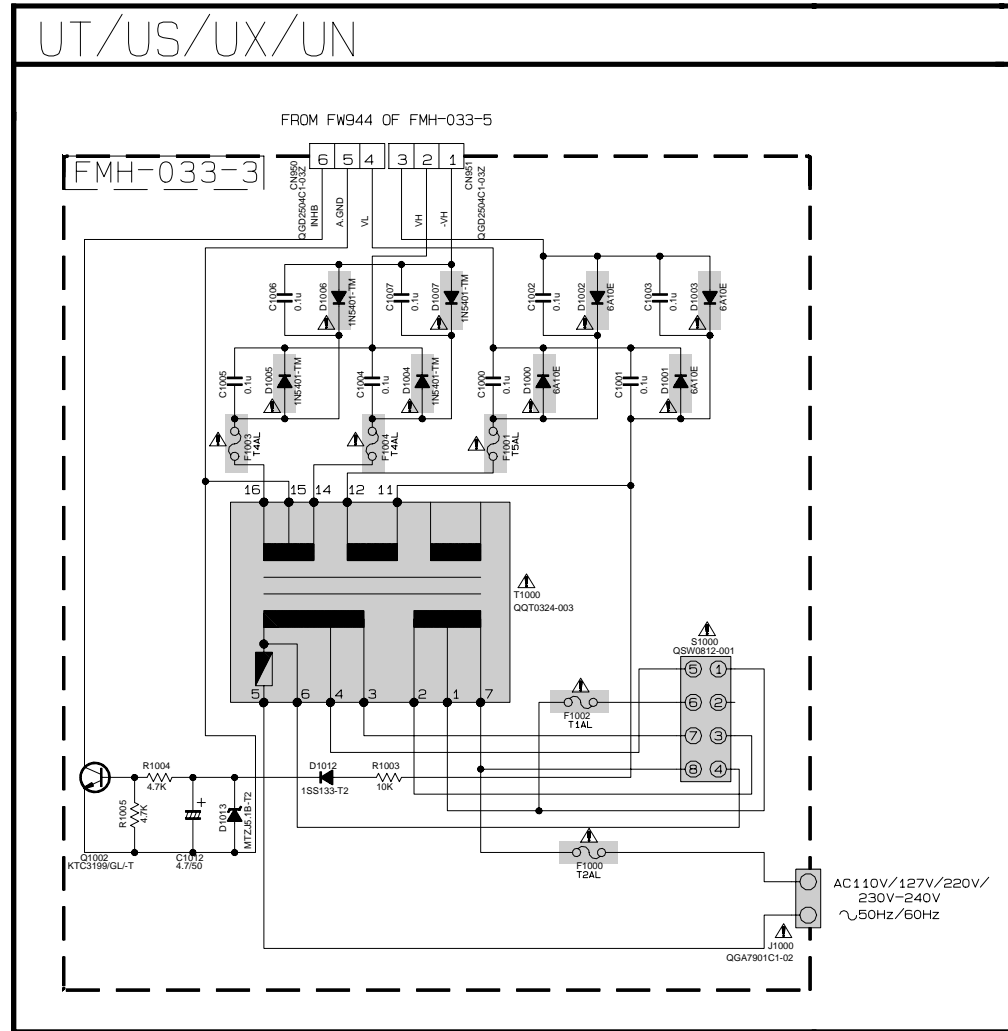
Block diagram



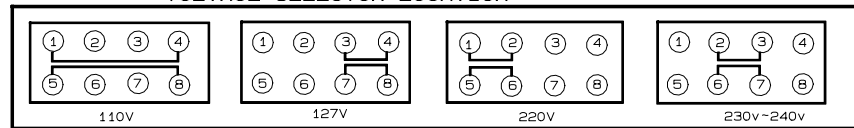
Standard schematic diagrams

POWER SUPPLY BLOCK

■ Trans section



VOLTAGE SELECTOR LOCATION



NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
- 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(PμP).
ALL INDUCTANCE VALUES ARE IN mH(mHm).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

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

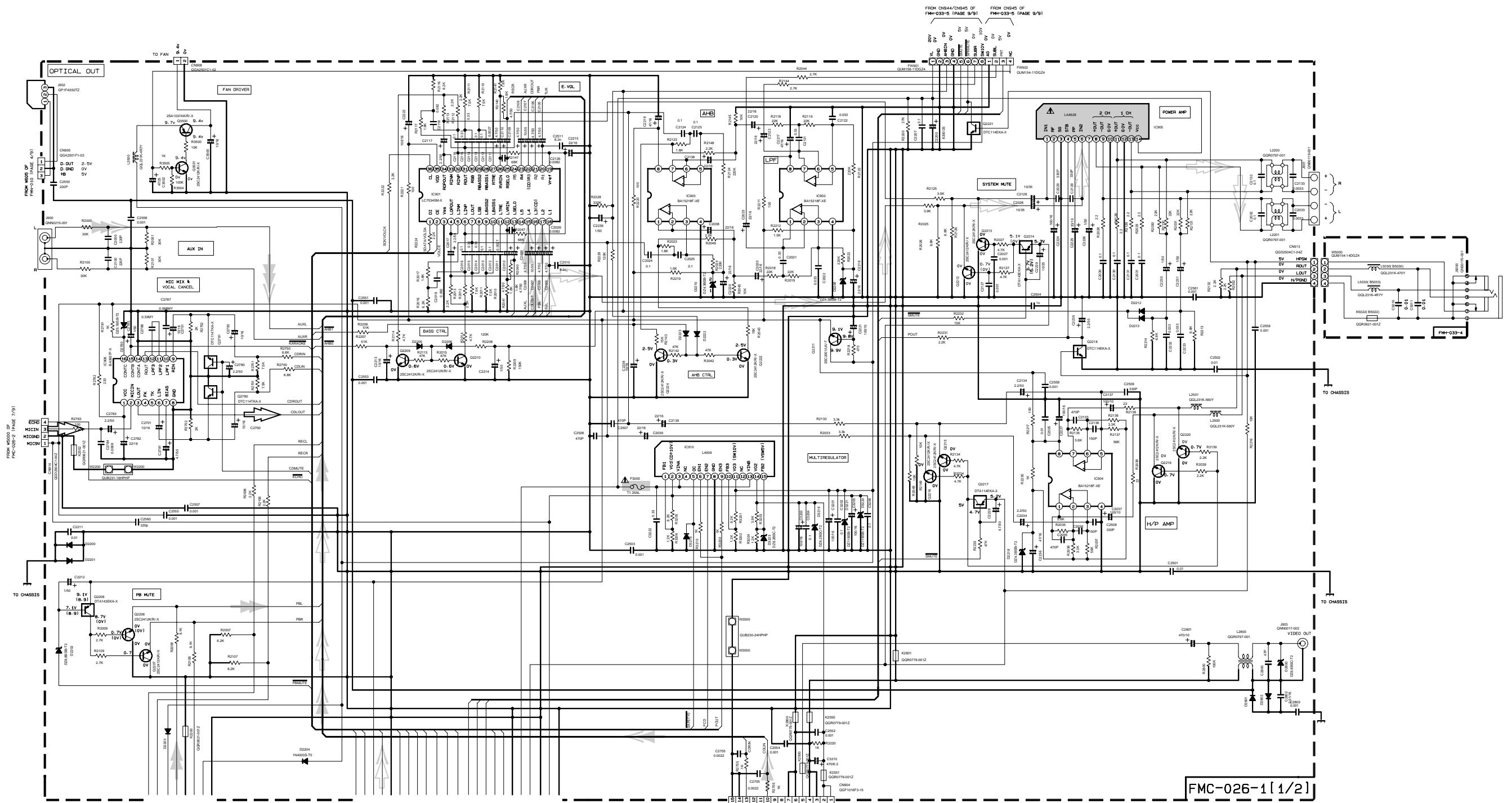
EXPLANATION OF OVERALL OF SCHEMATIC

MODEL : UX-P78V		
SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/9	UX-P78V	. PRIMARY WITH MAINS TRANSFORMER
2/9	UX-P78V	. DC REGULATOR, AUDIO OUTPUT . EXTERNAL INPUT, SOURCE SELECTOR SWITCH
3/9	UX-P78V	. LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL
4/9	UX-P78V	. CD SERVO AND CD SYSTEM CONTROL . CD CHANGER MECHANISM CONTROL
5/9	UX-P78V	. TAPE DECK MECHANISM CONTROL . TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS
6/9	UX-P78V	. TUNER RF/IF/FM MULTIPLEX
7/9	UX-P78V	. MIC AMPLIFIER WITH ALC, ECHO CONTROL CIRCUIT
8/9	UX-P78V	. VIDEO CONTROL CIRCUIT WITH MP3 FEATURE
9/9	UX-P78V	. SUBWOOFER BOARD

VERSION CODES
UF : CHINA
UN : INDONESIA
UT : TAIWAN
UX : SAUDI ARABIA
US : SINGAPORE AND UNIVERSAL EXCEPT ALL OF ABOVE

NOTE : MARK(*) IS TO SHOW DEVIATION IN VERSIONS.
DETAILS ARE EXPLAINED NEAR MARK.

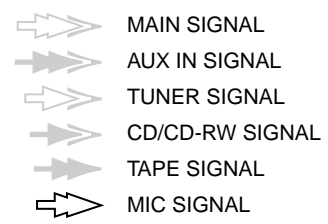
Main section



1. ALL VALUES ARE MEASURED IN VOLTS --- CD STOP MODE.

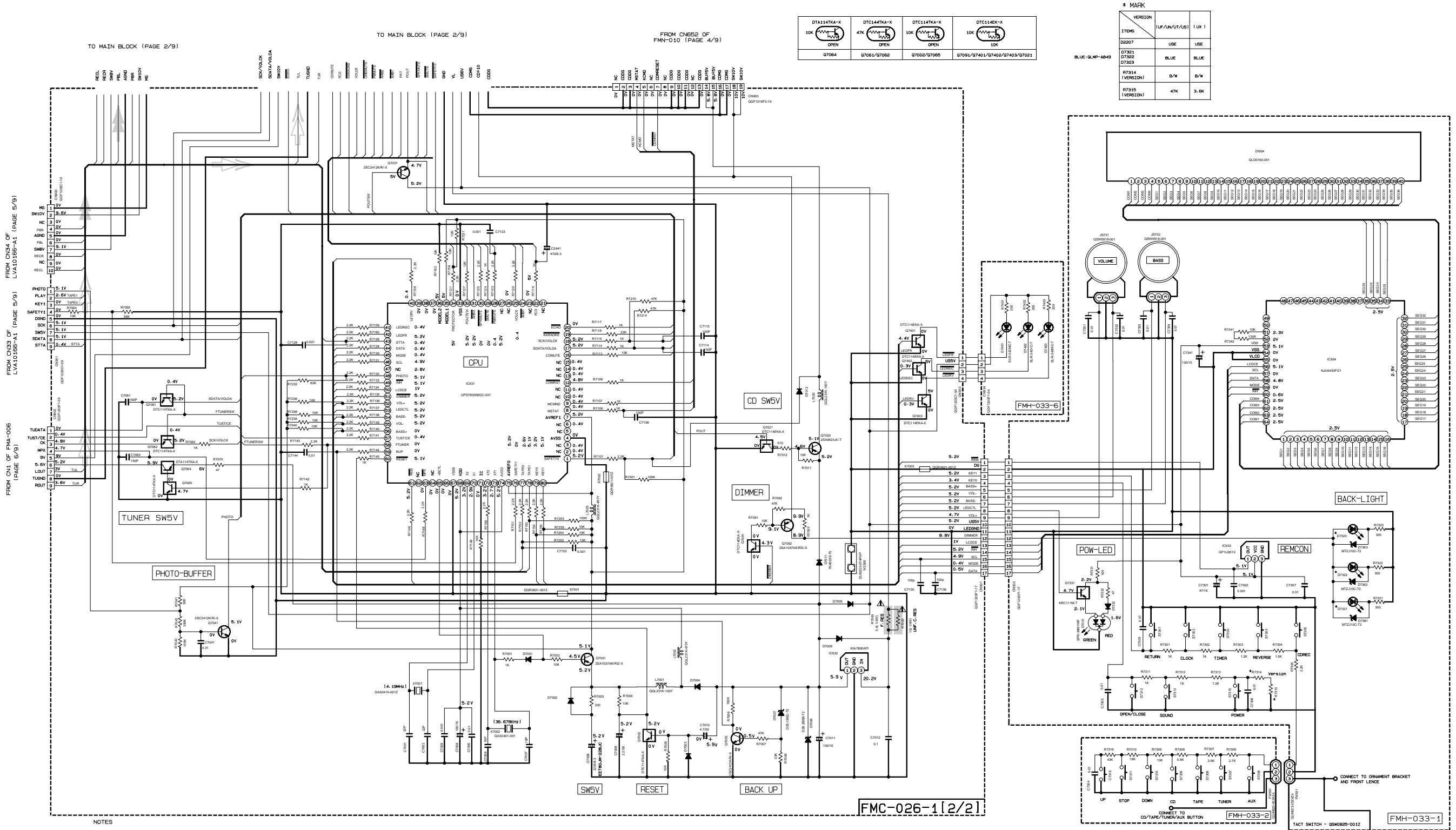
IC	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
IC901	5-2	0.4	0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.4	0	
IC902	4.1	4.1	4.1	0	4.1	4.1	4.1	B																													
IC903	4.1	4.1	4.1	0	4.1	4.1	4.1	B																													
IC904	4.1	4.1	4.1	0	4.1	4.1	4.1	B																													
IC905	1.2	9.4	0	2.9	2	1.2	1.4	9	9.2	0	9	0	9.2	20.2																							
IC906	8.7	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	4.4	4.4	4.4	4.4	0	5.1	5																					
IC910	1.3	7.8	19.8	0	5.2	0.4	5.1	0	5.2	1.3	9.9	0	19.8	5.3	1.3																						

2. UNLESS OTHERWISE SPECIFIED.
 ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
 ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHM(Ω).
 ALL CAPACITANCE VALUES ARE IN μF(PpF).
 ALL INDUCTANCE VALUES ARE IN mH(MPH).
 ALL DIMENSIONS ARE GIVEN IN THE FORM OF CAPACITANCE(±)P/P(±)MATED VOLTAGE (V).
 ALL DIMENSIONS ARE IN MILLIMETER UNLESS SPECIFIED.



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

Micon section



* MARK

VERSION ITEMS	(UF/AN/UT/US)	(LK)
D2007	USE	USE
D7321 D7322 D7323	BLUE	BLUE
R7314 (VERSION)	B/W	B/W
R7315 (VERSION)	47K	3.6K

BLUE: QJMF-AB49

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP MODE.
 - UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN #F(PpF). ALL INDUCTANCE VALUES ARE IN #H(mH). ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(#F)/RATED VOLTAGE (V). ALL DIODES ARE IN 1SS133-T2 UNLESS SPECIFIED.

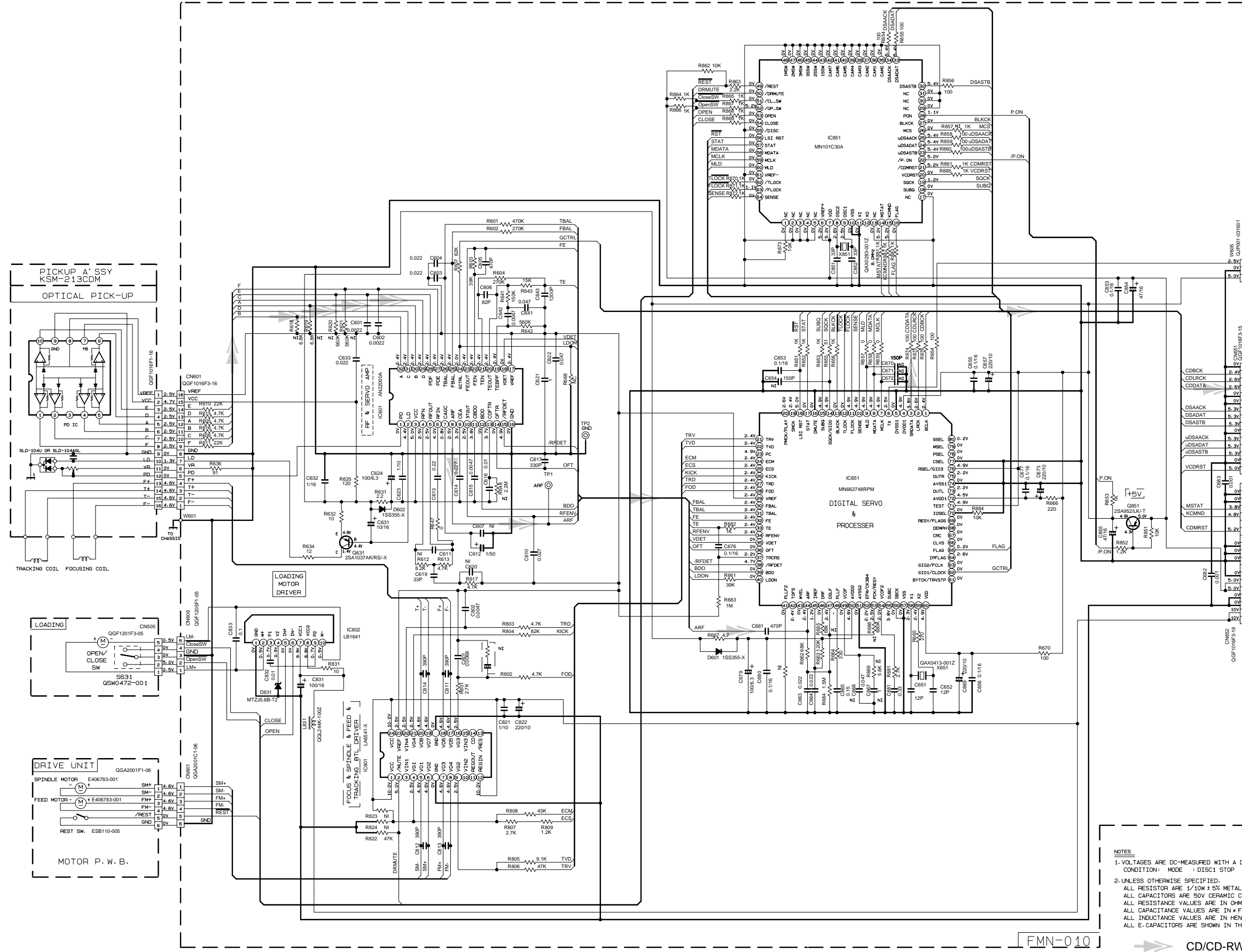
⇒ TUNER SIGNAL
⇒ TAPE SIGNAL

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

5
4
3
2
1

CD-RW section

5
4
3
2
1

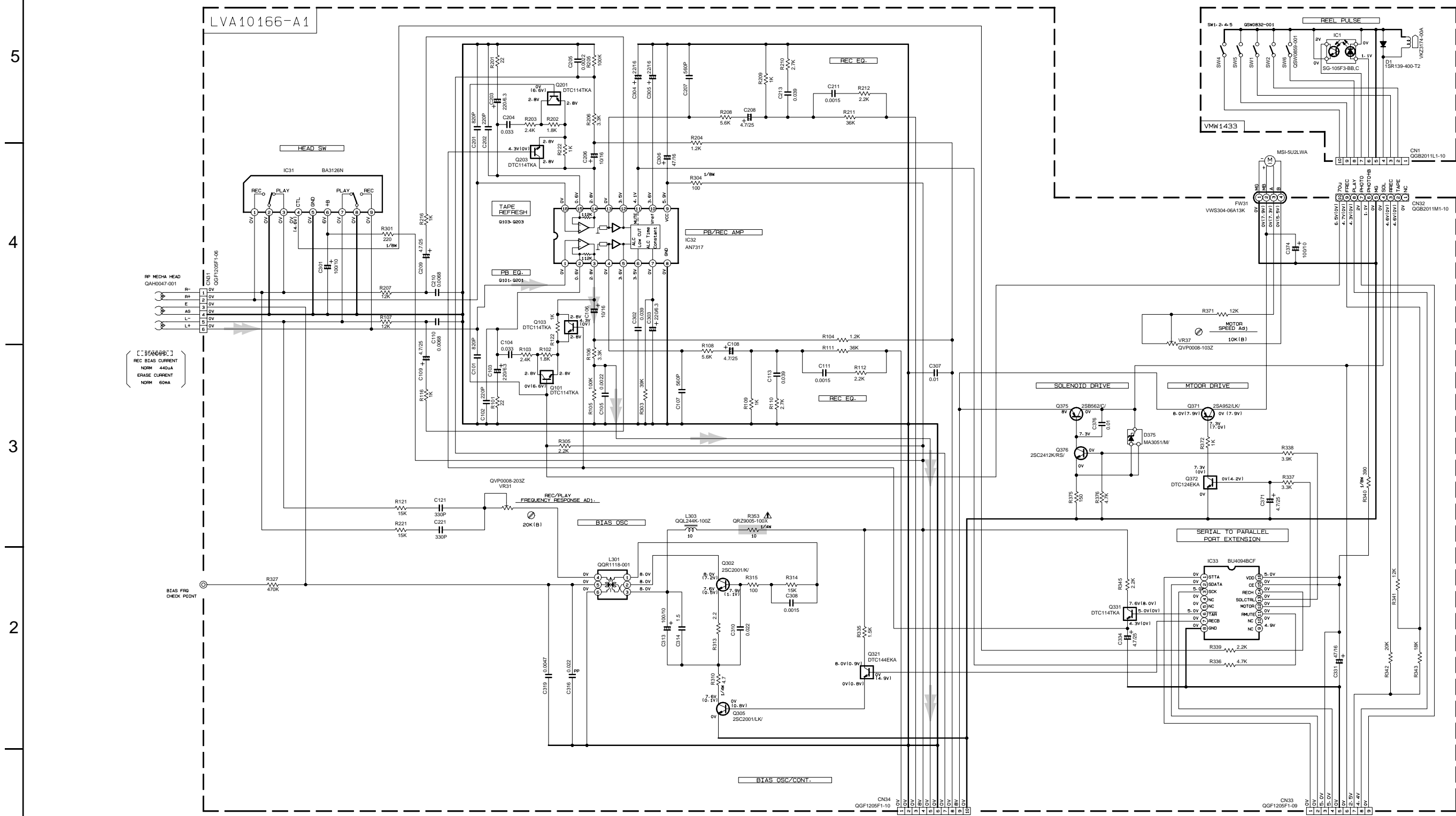


NOTES
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
 CONDITION: MODE : DISC1 STOP
 2. UNLESS OTHERWISE SPECIFIED.
 ALL RESISTOR ARE 1/10W ± 5% METAL GLAZE RESISTOR.
 ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHM (Ω).
 ALL CAPACITANCE VALUES ARE IN PICO-FARAD (pF).
 ALL INDUCTANCE VALUES ARE IN HENRY (H).
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

FMN-010 CD/CD-RW SIGNAL

TO CN605 OF FMC-026-1 (PAGE 2/9)
 TO CN101 OF FMW-010BM (PAGE 7/9)
 TO CN903 OF FMC-026-1 (PAGE 2/9)

Cassette 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 NYLAR 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).

⊕ POLYPROPYLENE CAPACITOR

PARTS	NAME	REF. NO
	FA1A4Z OF DTC114TKA	G101-G203 G331
	FA1L4M OF DTC1444KA	G321
	FA1F4M OF DTC124EKA	G372

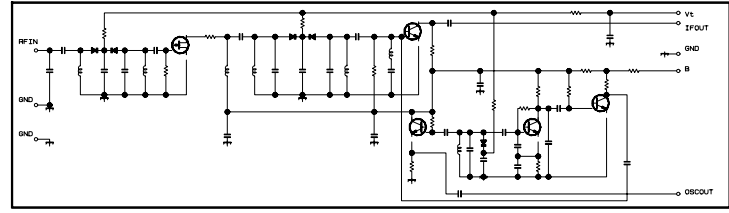
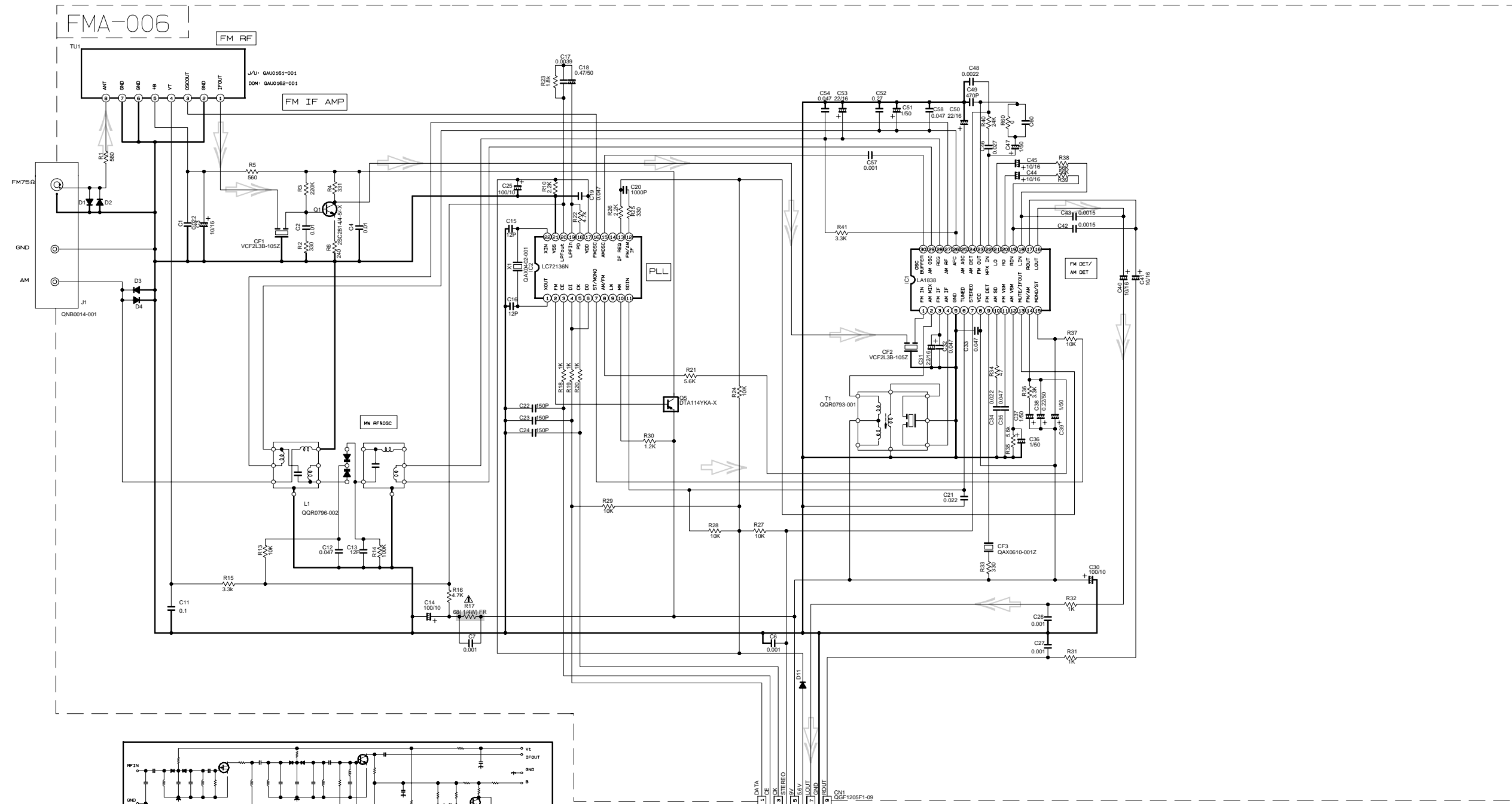
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

➔ TAPE SIGNAL

5
4
3
2
1

A B C 2-6 D E F G

■ Tuner section

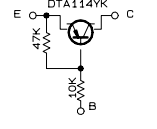


CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1	FM NO SIGNAL	3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	0.1	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.6	3.6	3.6	2.7	
	FM 60dB STEREO	3.6	8.9	3.6	3.6	0	0	5.0	8.9	8.9	1.3	4.3	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.6	3.6	3.6	3.6	2.7
	AM NO SIGNAL	3.5	9.0	3.5	3.5	0	5.0	5.1	9.0	2.6	1.3	0	0	0.9	4.7	5.5	4.3	4.3	4.3	3.3	3.2	2.8	ust	0.7	0.7	3.6	3.6	3.6	3.6	2.1	
IC2	FM NO SIGNAL	2.5	0	0	5.0	4.9	5.0	7.9	7.8	3.6	6.1	5.1	0	0	0	0	2.5	5.1	0.9	0.9	3.6	0	2.3								

Tr NO.	Q1	Q5
PIN NO.	E C B E C B	E C B
FM 87.5MHz NO SIGNAL	0 7.1 0.85	8.9 8.8 0
AM 522kHz NO SIGNAL	0 0 0 9.0 0 8.9	

Tr NO.	Q2	Q3	Q4
PIN NO.	E C B E C B E C B	E C B E C B	
AM 522kHz NO SIGNAL	0 0 0 0.7 0 0 0.7 0	0 3.6 0.7	3.6 0.7
AM 144kHz NO SIGNAL	0 0 0.3 0 0.3 0.3	3.6 3.6 3.6	

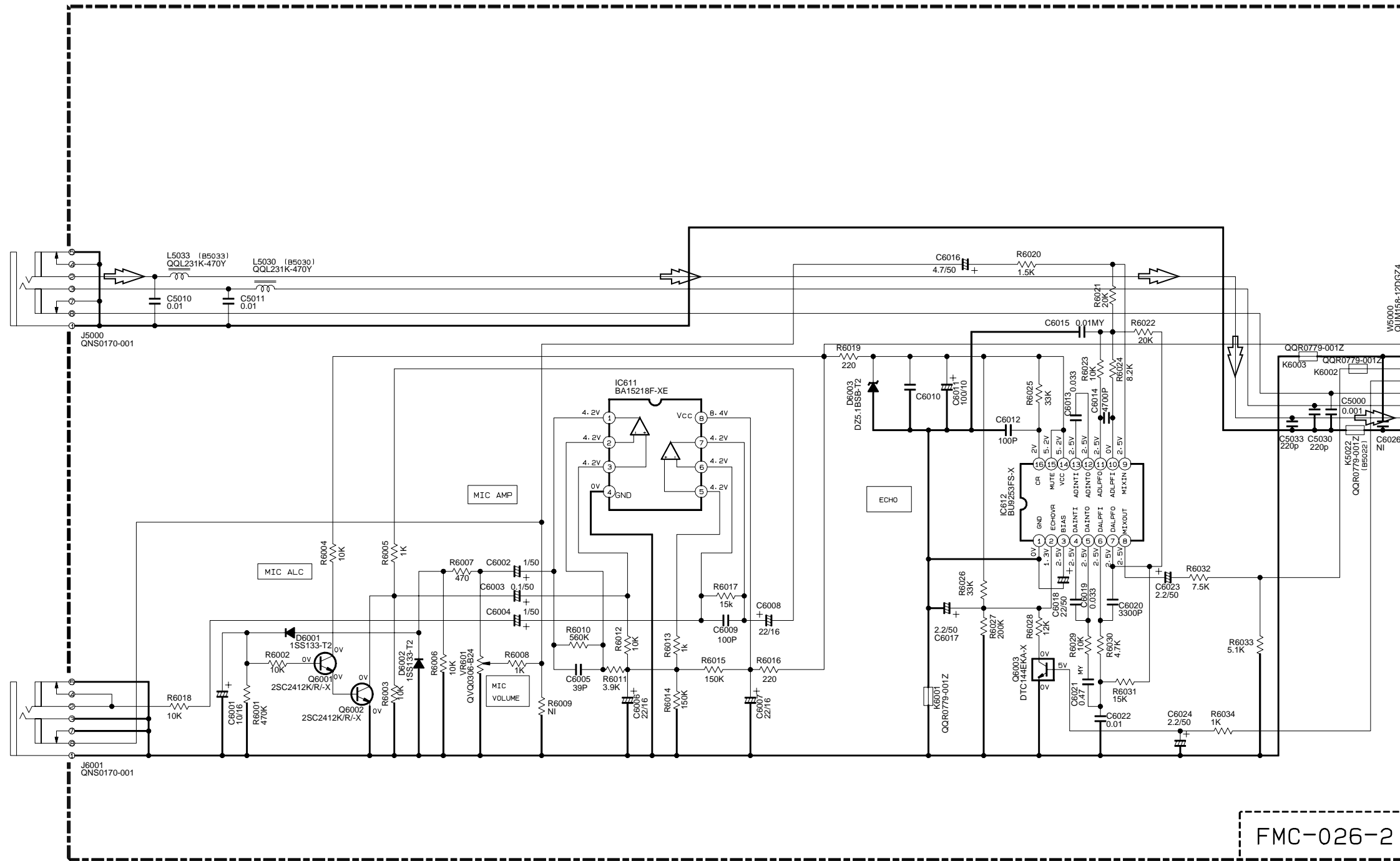
- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
 - ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
 - ALL RESISTANCE VALUES ARE IN OHM(Ω).
 - ALL CAPACITANCE VALUES ARE IN pF(P=pF).
 - ALL E. CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (pF)/RATED VOLTAGE (V).
 - SI DIODES (▶) ARE ALL 1SS133-T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
 - PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 25C2814/4-5/-X Q2-Q3 25C2412K/R/-X
Q4-Q5 DTA114YKA-X
 - INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



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

⇨ TUNER SIGNAL

■ Mic section



TO CN914 & CN913 OF
FMC-026-1 (PAGE 2/9)

FMC-026-2

➤ MIC SIGNAL

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 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
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).

5

4

3

2

1

A

B

C

2-8

D

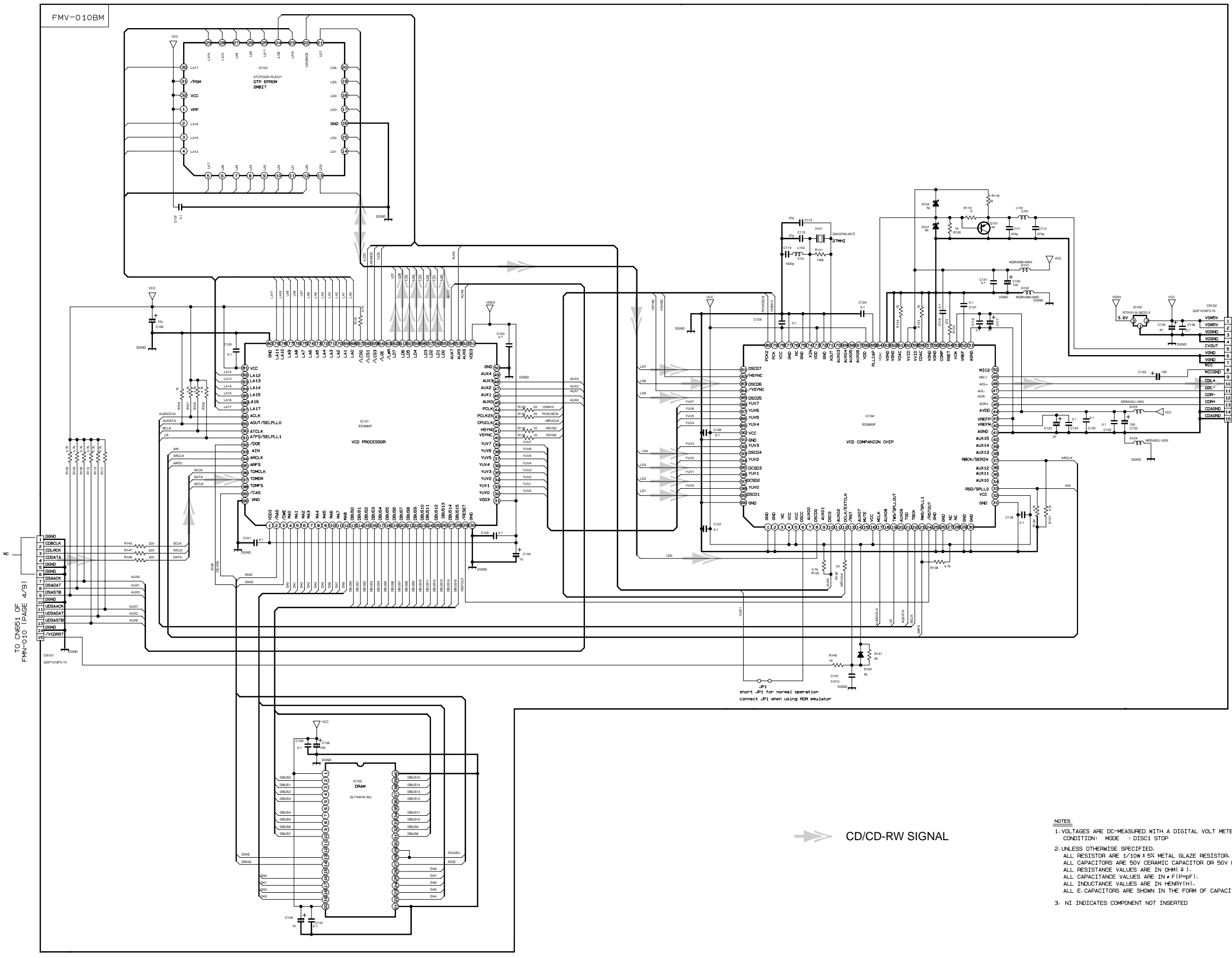
E

F

G

VCD section

5
4
3
2
1



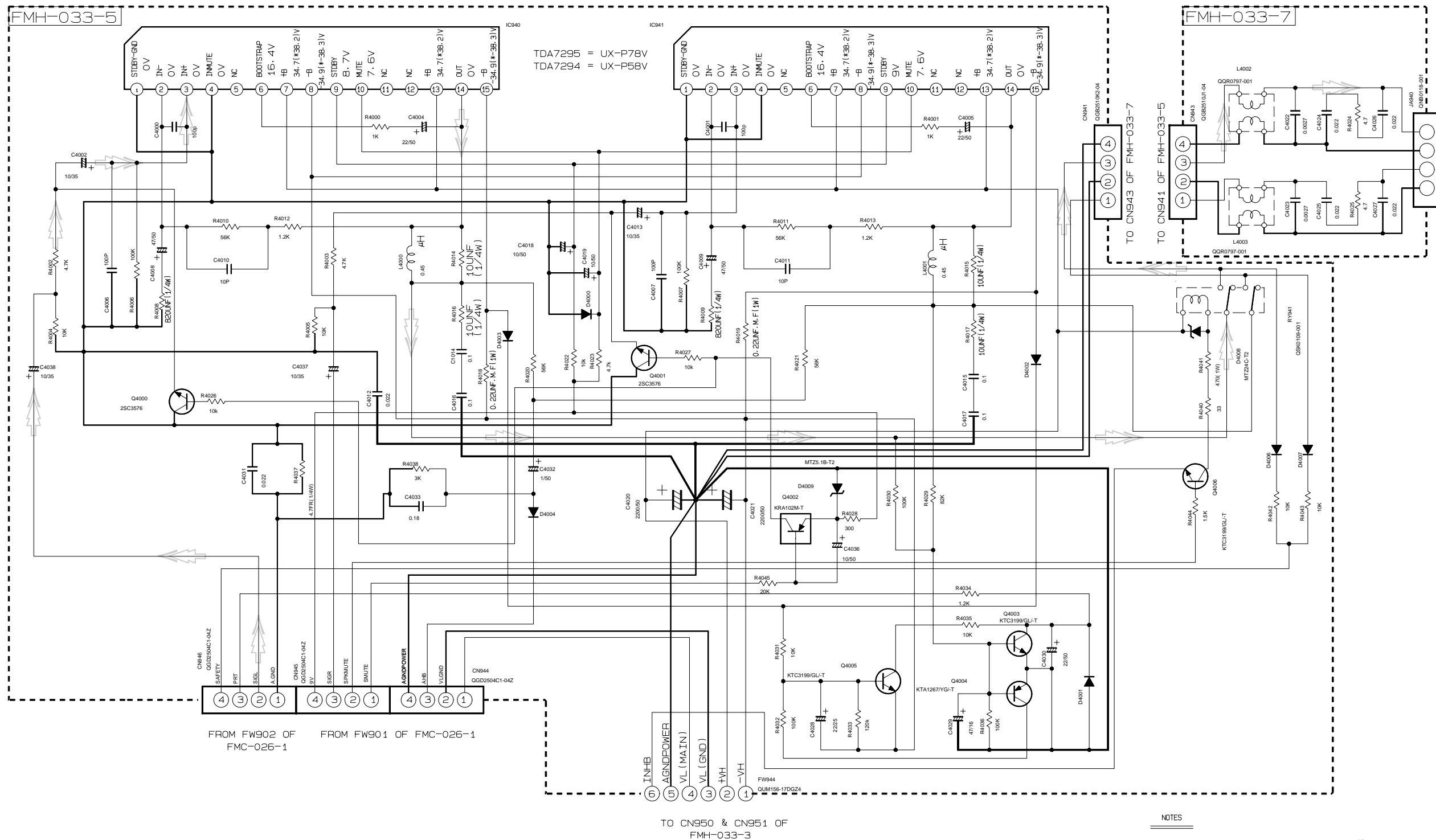
TO CN504 OF FMC-025-1 (PAGE 2/9)

short JP1 for normal operation
connect JP1 when using ROM emulator

CD/CD-RW SIGNAL

- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
CONDITION: MODE : DISC1 STOP
 2. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/10W ± 5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V NYLON CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITANCE VALUES ARE IN FEMTO (f).
ALL INDUCTANCE VALUES ARE IN HENRY (H).
 3. NI INDICATES COMPONENT NOT INSERTED

Subwoofer section

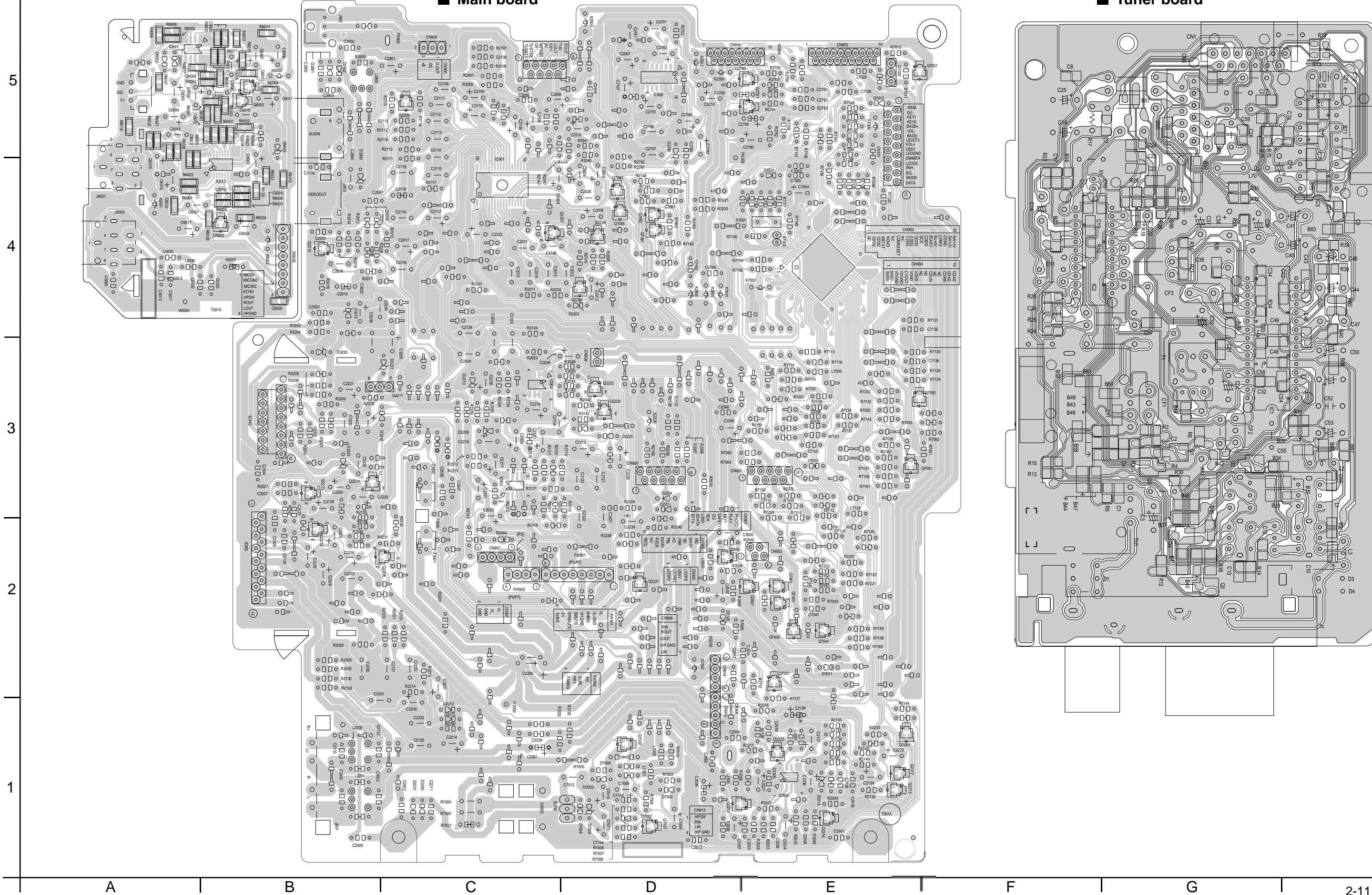


- NOTES
1. VOLTAGES ARE DC-MEASURED USING A DIGITAL VOLTMETER OR AN OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION
 2. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P-PF).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS133-T2 TYPE UNLESS SPECIFIED
Ⓢ POLYPROPYLENE CAPACITOR
Ⓜ 50V ± 5% MYLAR OR 50V ± 5% THIN FILM CAPACITOR
 3. THOSE PART WITH BRACKET IS NOT USED.
FOR RESISTOR, IT WOULD BE A SHORT.
FOR CAPACITOR, IT WOULD BE AN OPEN.

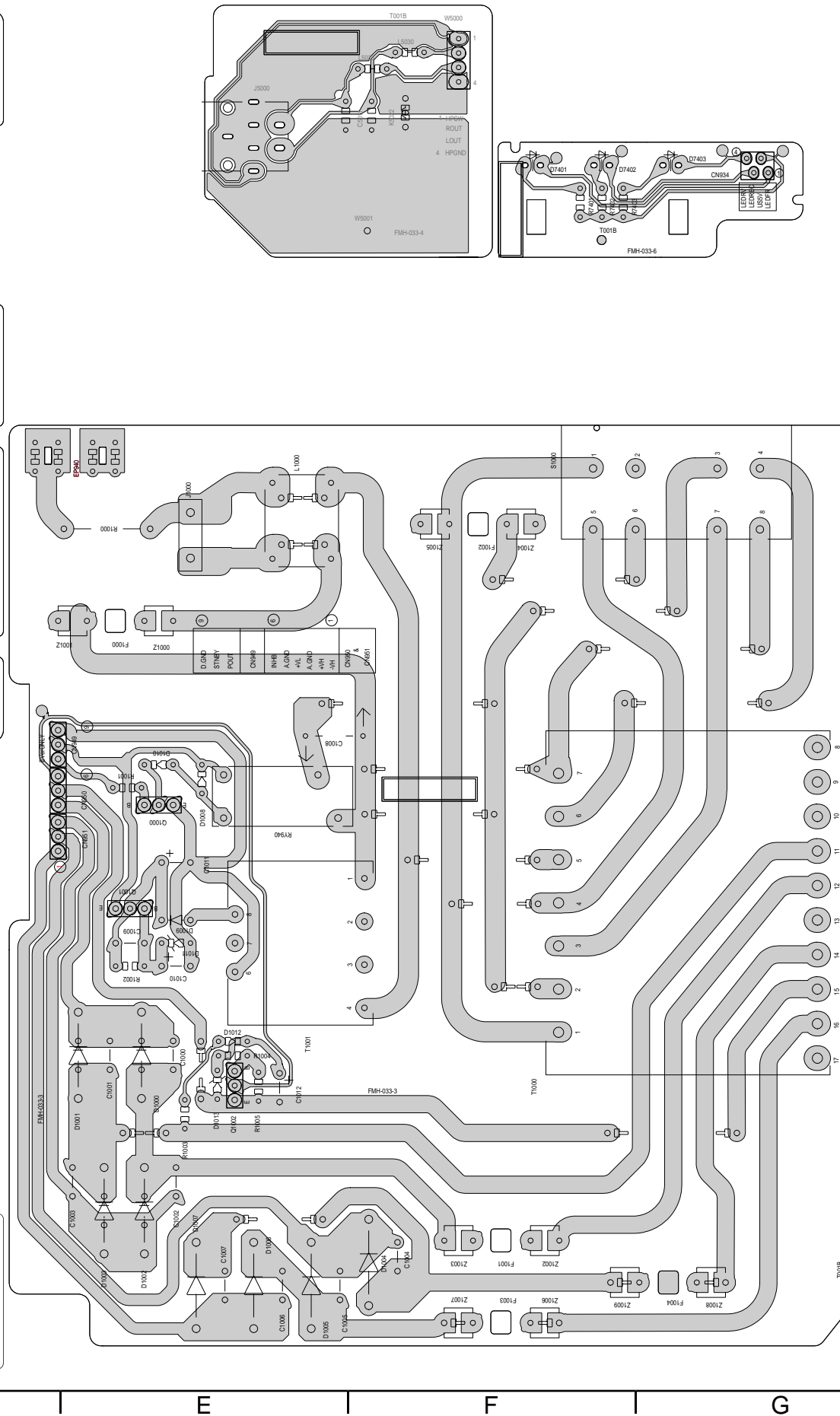
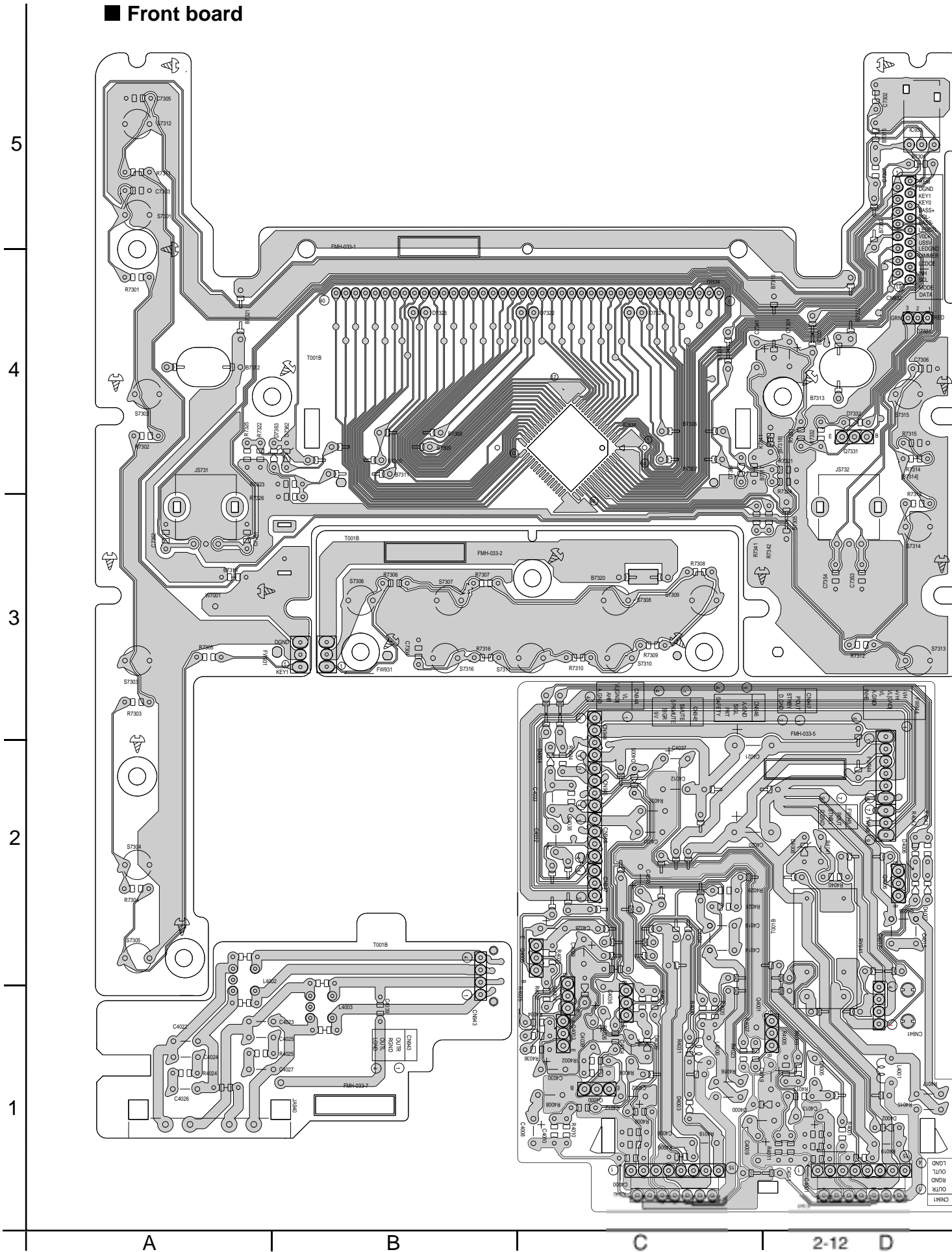
Printed circuit boards

■ Main board

■ Tuner board



■ Front board



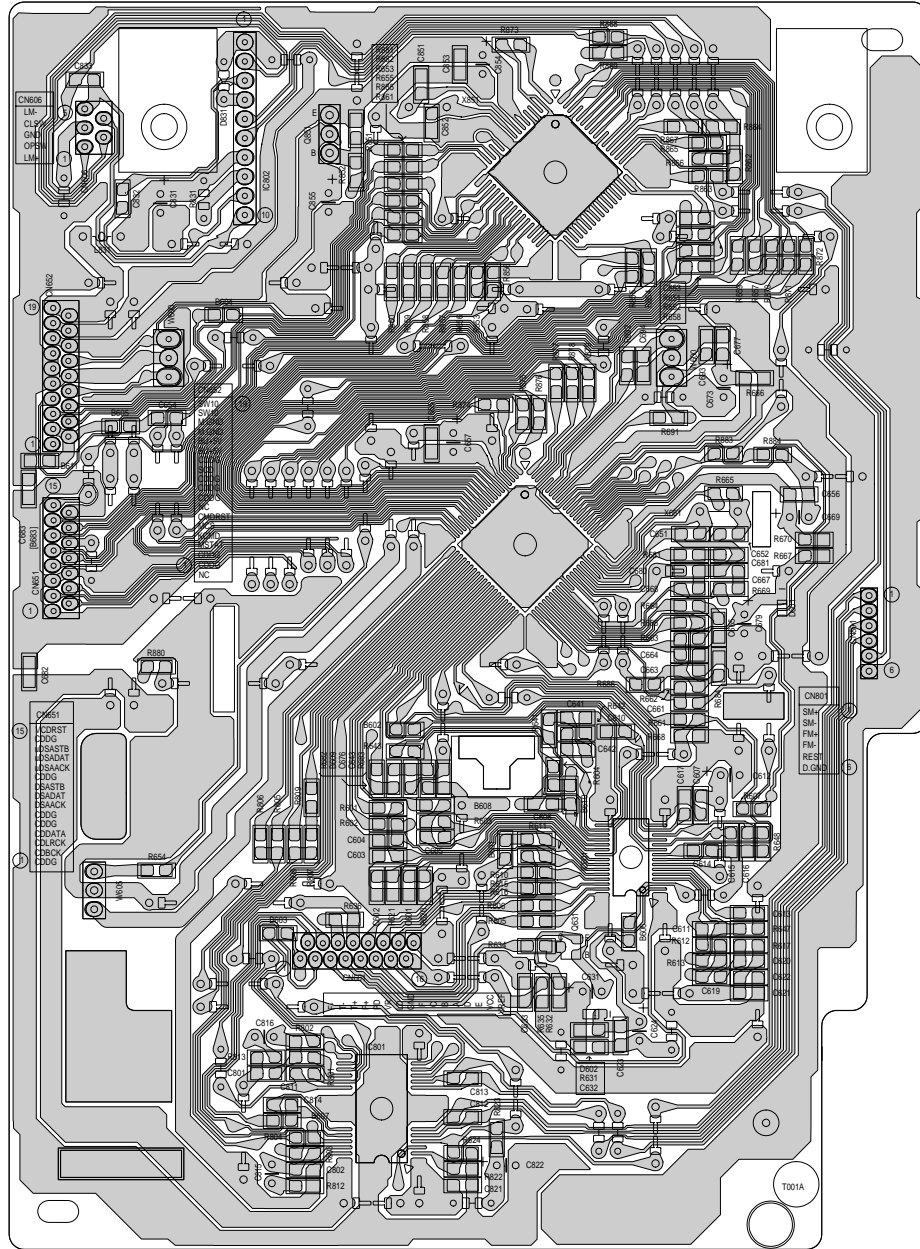
■ Micon board

5

4

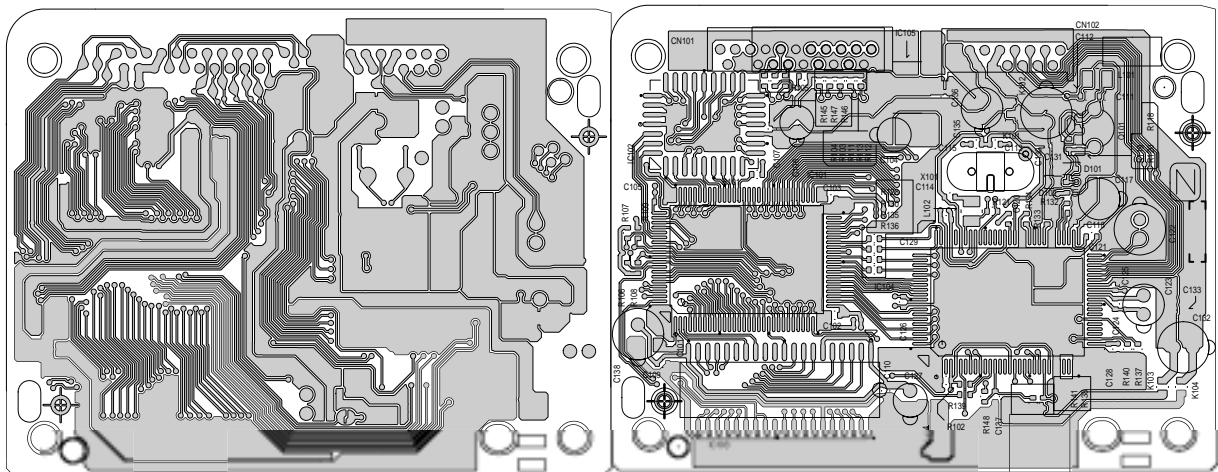
3

2



■ VCD board

1



A

B

C