

Standard schematic diagrams

CPU & LCD driver circuit

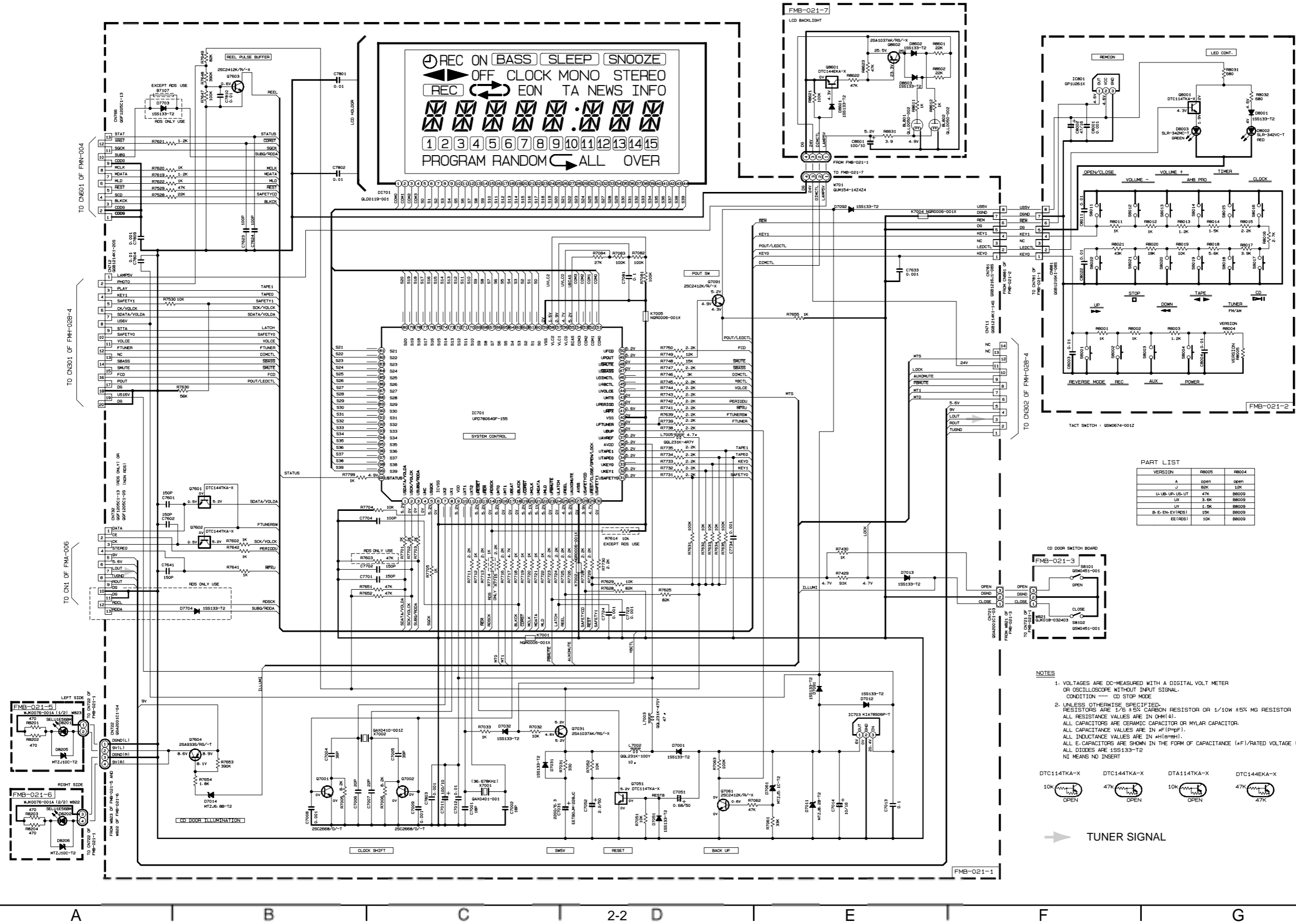
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PART LIST

VERSION	R8005	R8004
A	open	open
J	82K	1K
LA-LB-LP-US-UT	47K	R8009
LX	3.9K	R8009
LY	1.5K	R8009
B-E-EN-EN(RS)	15K	R8009
EE(RS)	10K	R8009

- NOTES**
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION — CD STOP MODE
 - UNLESS OTHERWISE SPECIFIED:
RESISTORS ARE 1/6 ± 5% CARBON RESISTOR OR 1/10W ± 5% MG RESISTOR
ALL RESISTANCE VALUES ARE IN OHM(S).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=PF).
ALL INDUCTANCE VALUES ARE IN mH(M=MH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS133-T2
NI MEANS NO INSERT



TUNER SIGNAL

CD servo circuit

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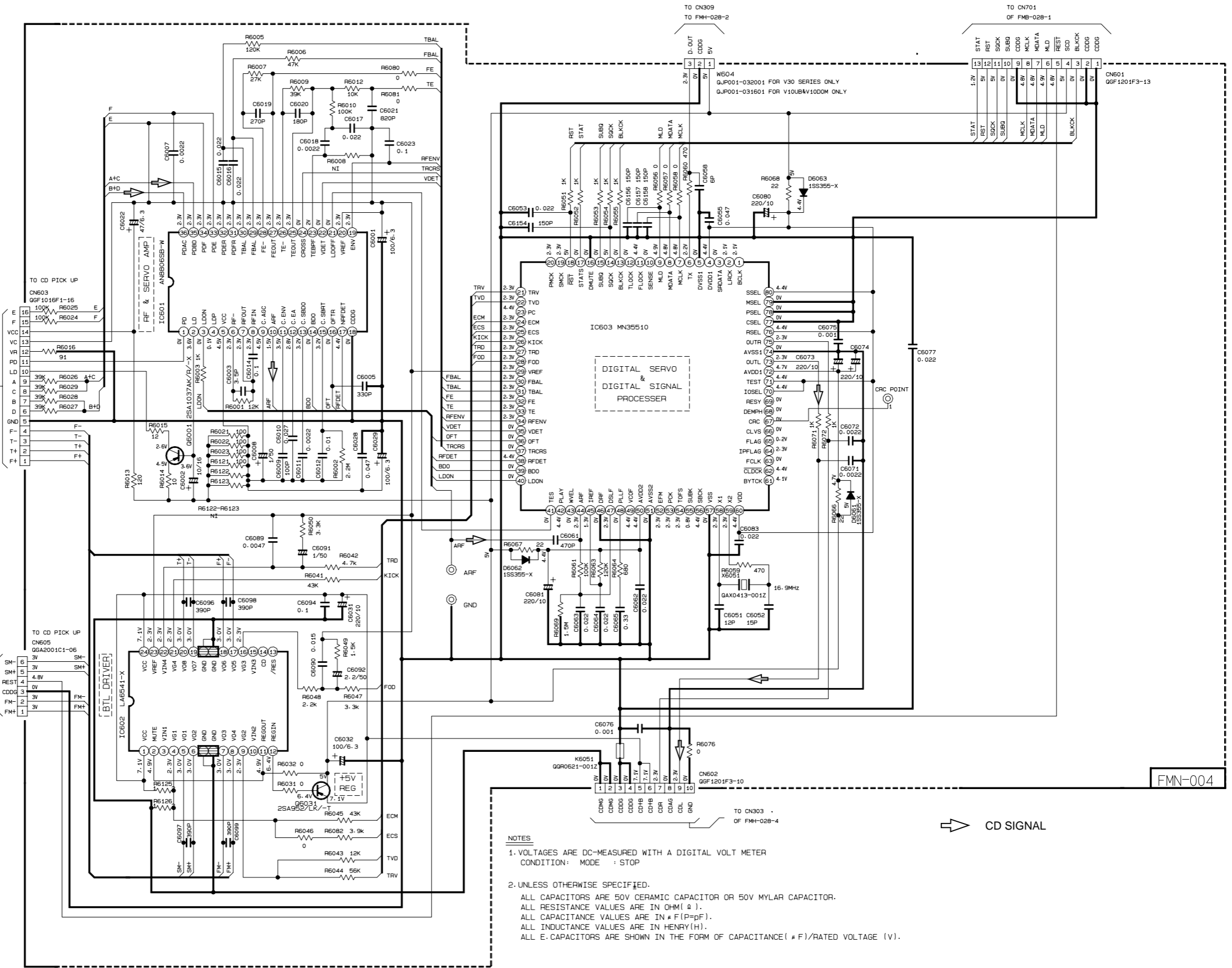
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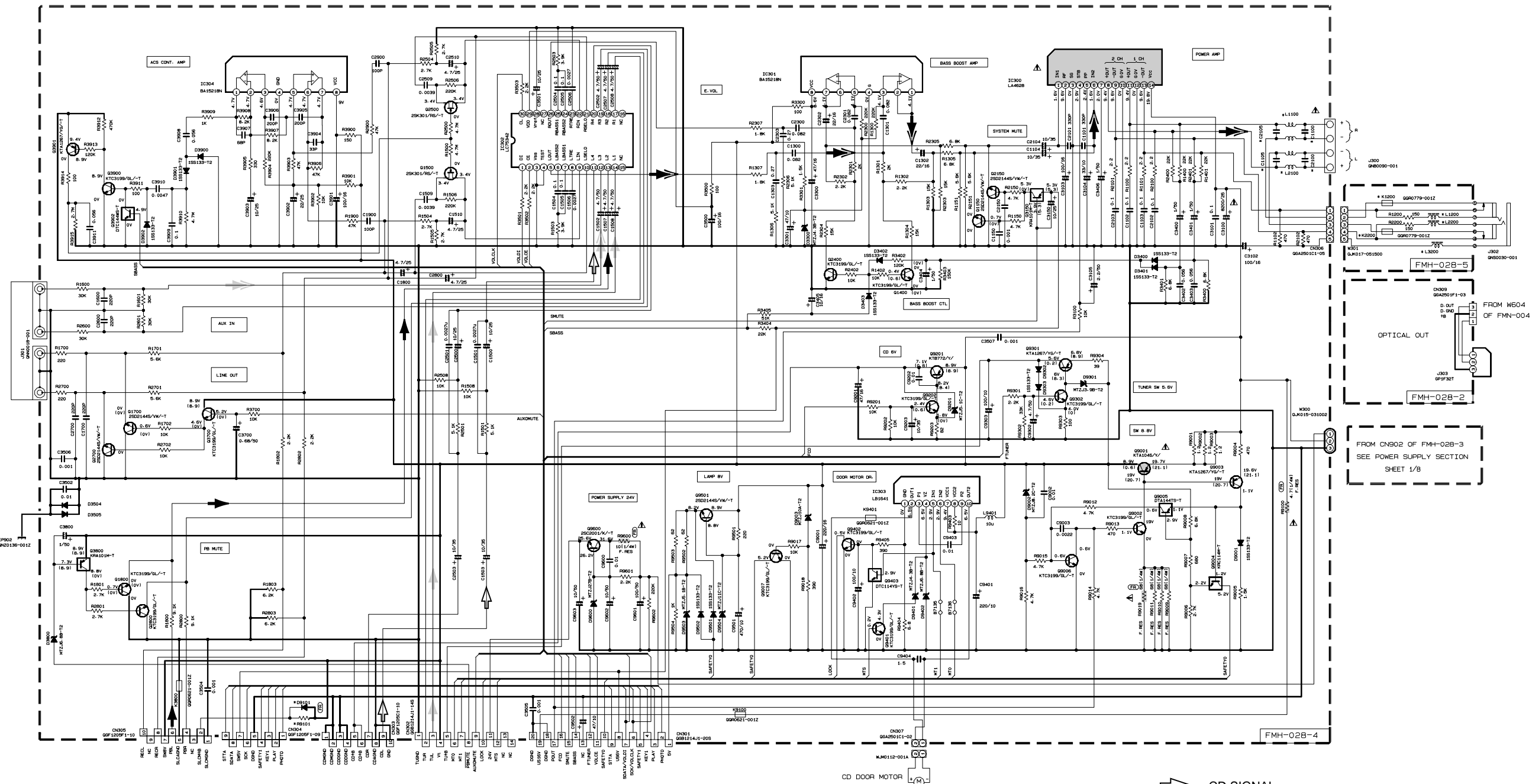
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KSM-770ABA



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
CONDITION: MODE : STOP
 2. UNLESS OTHERWISE SPECIFIED.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITANCE VALUES ARE IN # F (P=pF).
ALL INDUCTANCE VALUES ARE IN HENRY (H).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (# F) / RATED VOLTAGE (V).

Power amplifier circuit



TO SLC-S1M TO SLC-S1M FROM CN602 OF FMN-004 TO CN711 OF FMB-021-1 TO CN712 OF FMB-021-1

*** PART LIST**

MODEL	PART	VERSION	L1000/2000/3000	K1000/2000	C1100/2100	L1100	L2100	C1100/2100	D9101	R9101
B/L/E/EN/VA	06L231K-470Y	06L231K-470Y	06L231K-470Y	06L231K-470Y	06L231K-470Y	06L231K-470Y	06L231K-470Y	06L231K-470Y	NONE	5.61L/4M1 F-RES
DM	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	15R335-400A-T5	NONE
L/C	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	15R335-400A-T5	NONE
L/US/UB/UT/UK/VY	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	15R335-400A-T5	NONE
LP	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	071208/7130/7131	15R335-400A-T5	NONE

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

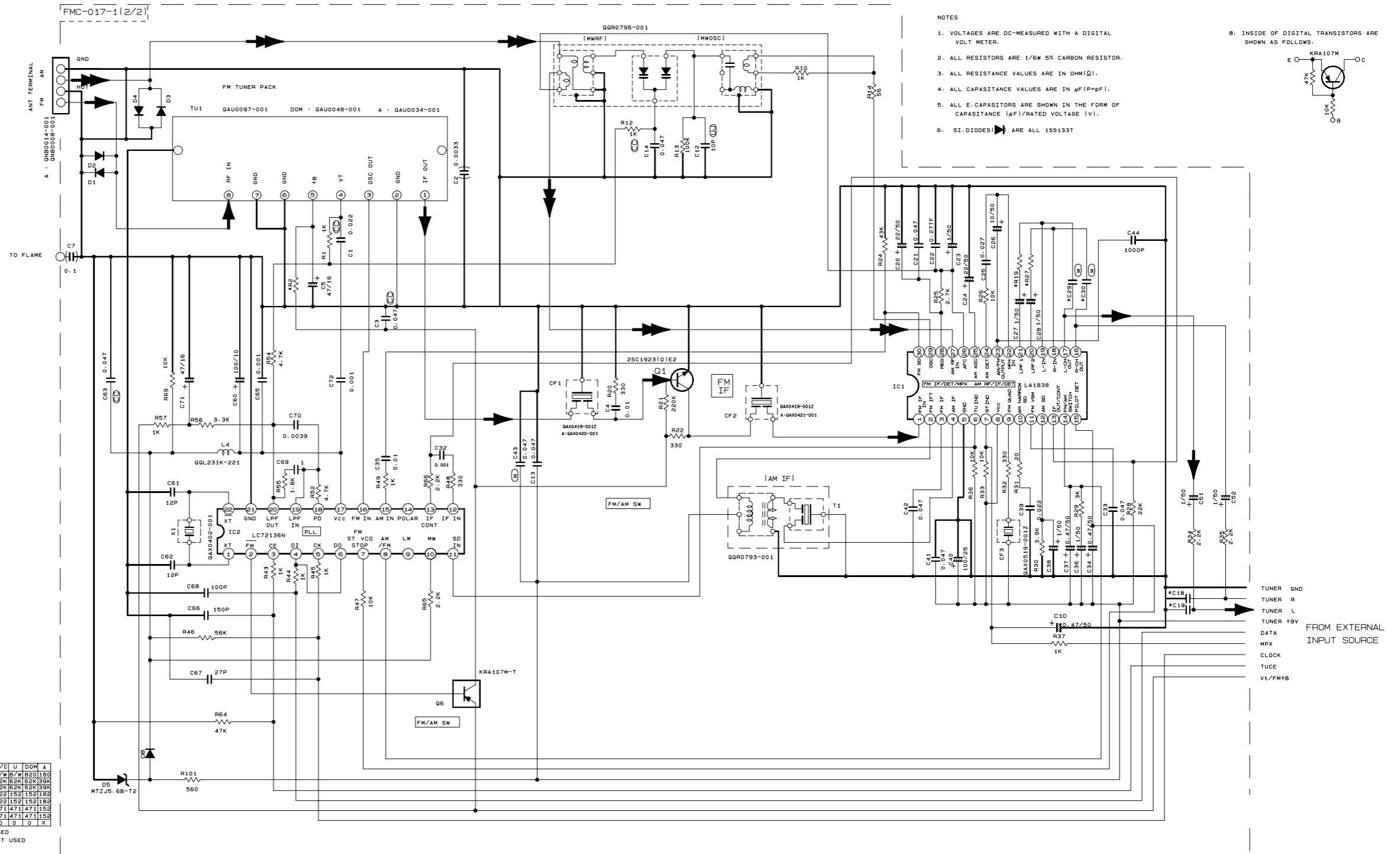
- CD SIGNAL
- TAPE P. B. SIGNAL
- TUNER SIGNAL
- AUX IN SIGNAL
- MAIN SIGNAL

NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP MODE. (IN BRACKET VALUES ARE OTHER FUNCTIONING)
- 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 pF(pF). ALL INDUCTANCE VALUES ARE IN mH(mH). ALL DIMENSIONS ARE SHOWN IN mm(mm). ALL DIMENSIONS HAVE 1/16" (0.625mm) TOLERANCE.



■ Tuner circuit



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
 2. ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
 3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
 4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
 5. ALL E-CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
 6. SI-DIODES ARE ALL 1SS133T
- B. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.
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J/C	U	DDM	A
R2	B/W	B/W	220 180
R19	62K	62K	15K 39K
R27	62K	62K	62K 39K
C29	222	152	152 182
C30	222	152	152 182
C18	471	471	471 152
C19	471	471	471 152
C44	0	0	0 X

0 : USED
X : NOT USED

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	3.5	9.1	3.5	3.5	0.4	7.0	6.4	9.1	0	1.3	0.3	0.5	0.8	8	8	4.3	4.3	4.3	4.3	3.2	2.8	3.5	0	0	3.4	3.4	3.6	3.6	2.3	
	FM 60dB STEREO	3.5	9.1	3.5	3.5	0	0	0.2	9.1	2.3	1.3	4.3	0	0.8	8	8.1	4.3	4.3	4.3	4.3	3.2	2.8	3.1	0	0	3.6	3.6	3.6	3.6	2.3	
IC2	AM NO SIGNAL	3.5	9.1	3.5	3.5	0	9.1	6.4	9.1	2.7	1.3	0	0	0.8	0.1	5.6	4.2	4.2	4.2	4.2	3.2	2.8	2.9	0.6	0.5	3.5	3.5	3.5	3.5	2.1	
	FM NO SIGNAL	2.4	0	0	5.6	4.9	5.6	8	8	3.6	3.8	8.4	0	0	0	0	2.4	4.9	0.7	0.7	7.2	0	2.6								

Tr. NO.	Q1			Q6		
	E	C	B	E	C	B
FM 67.5MHZ NO SIGNAL	0	7.4	0.8	8.4	8.3	0
AM 522KHZ NO SIGNAL	0	0	0	8.5	0	8.4

Tr. NO.	Q2			Q3			Q4		
	E	C	B	E	C	B	E	C	B
AM 522KHZ NO SIGNAL	3.5	3.5	0.3	0	0	0.7	0	0	0.7
AM 144KHZ NO SIGNAL	3.5	3.5	3.5	0	0	0.1	0	0	0.1

A/C/J/U/DDM

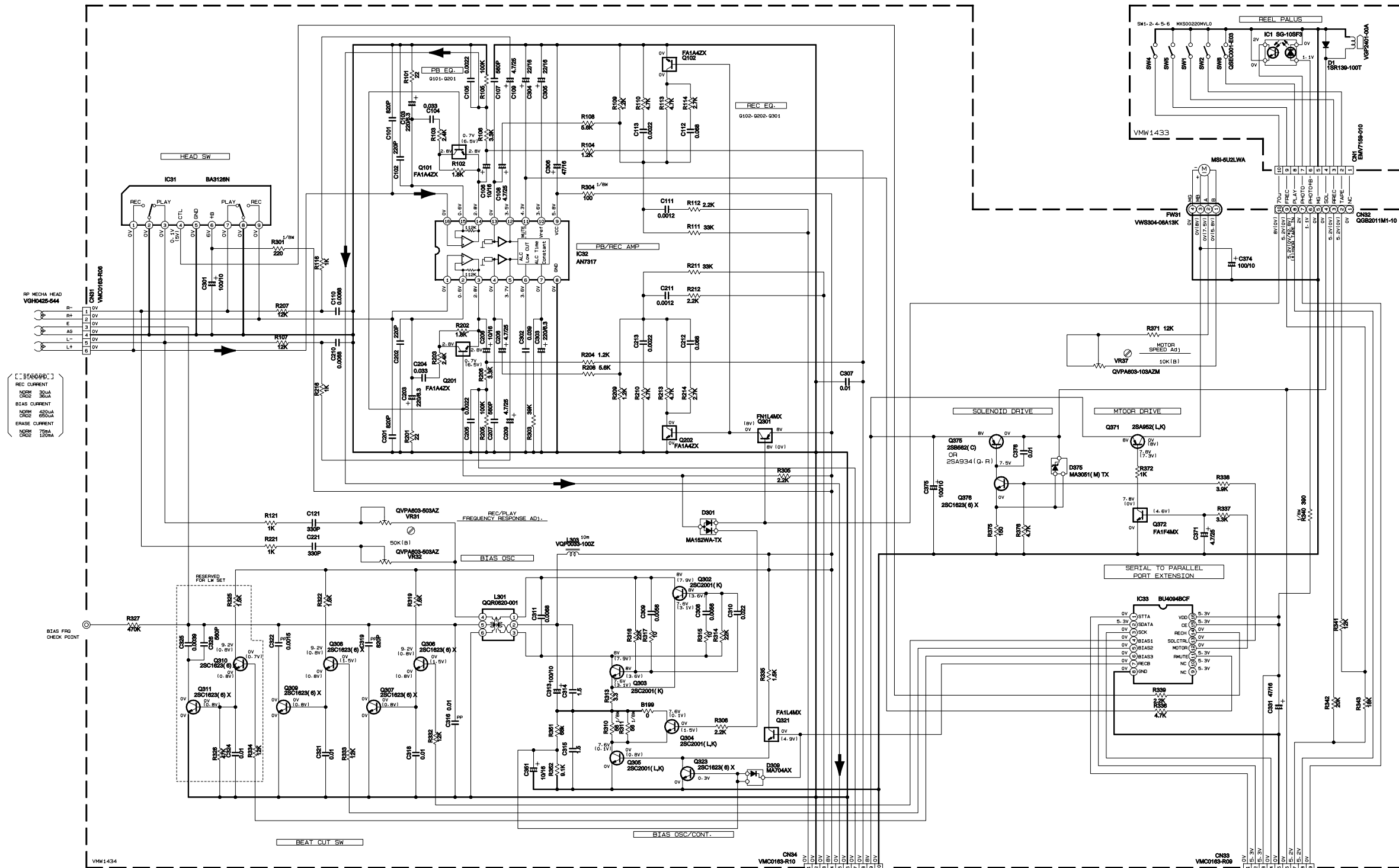
➔ FM/TUNER MAIN SIGNAL
➔ AM SIGNAL

TUNER GND
TUNER R
TUNER L
TUNER +9V
DATA
MPX
CLOCK
TUCE
Vt/FM+B

FROM EXTERNAL INPUT SOURCE

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Cassette mecha control circuit



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 Ω(MHΩ).

3. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN #F(PHGF).

4. ALL INDUCTANCE VALUES ARE IN #H(MMH).

5. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V). POLYPROPYLENE CAPACITOR

PARTS	NAME	REF. NO
	FA1A42X	Q101-Q201
	FN1L4MX	Q301
	FA1L4MX	Q301
	FA1F4MX	Q371

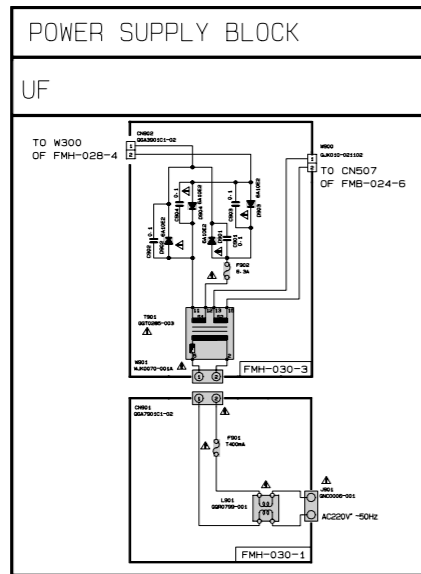
➔ TAPE P. B. SIGNAL

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A B C 2-6 D E F G

■ Power supply circuit

■ Video control circuit



EXPLANATION OF OVERALL OF SCHEMATIC

MODEL : UX-V500N/UX-V50V

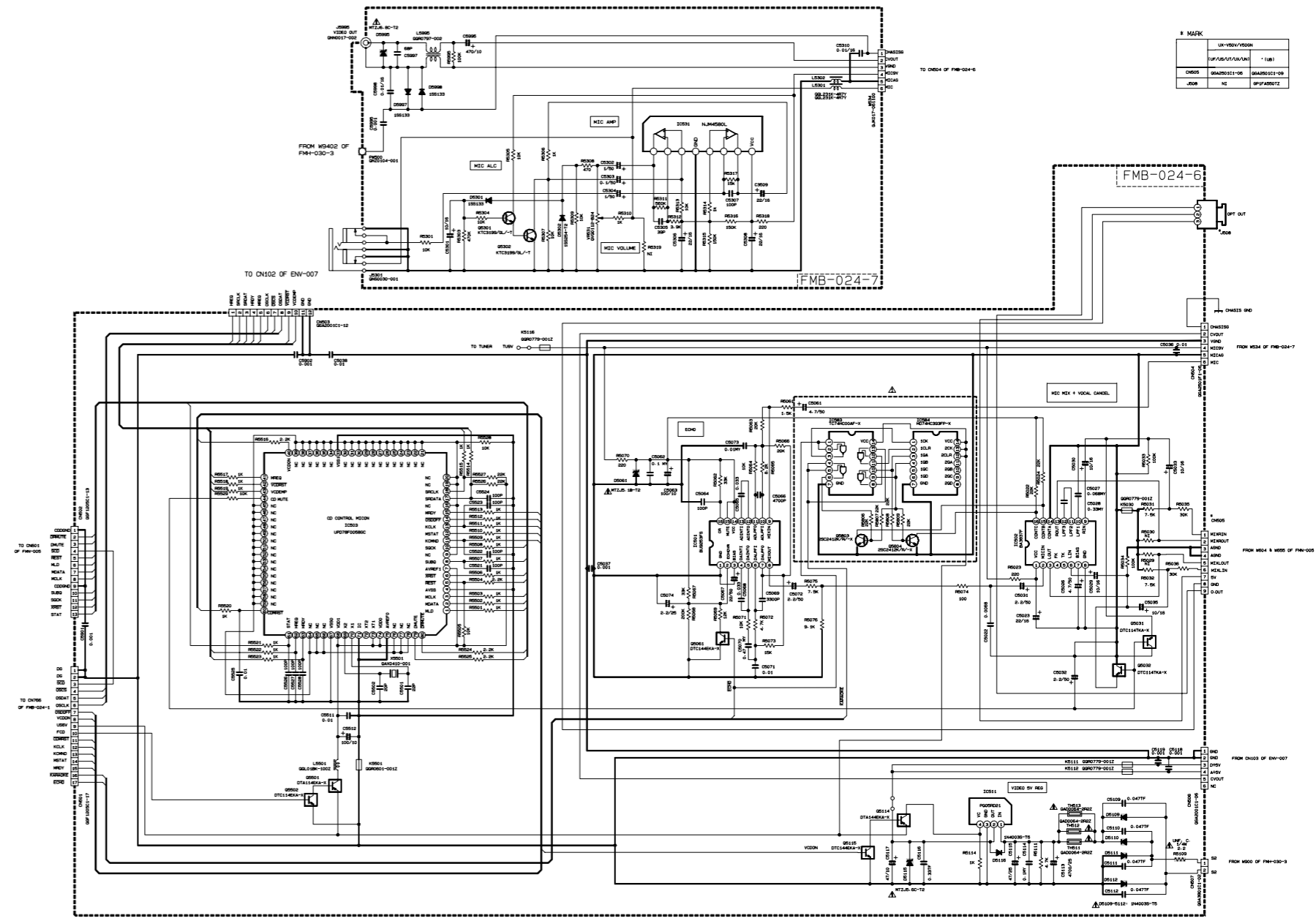
SHEET NUMBER	MODEL NUMBER TO BE APPLIED	CIRCUITS DESCRIPTION
1/8	UX-V500N/UX-V50V	- PRIMARY WITH MAINS TRANSFORMER
2/8	UX-V500N/UX-V50V	- DC REGULATORS/ALDIO OUTPUT
3/8	UX-V500N/UX-V50V	- EXTERNAL INPUT, SOURCE SELECTOR SWITCH
4/8	UX-V500N/UX-V50V	- LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL
5/8	UX-V500N/UX-V50V	- CD SERVO AND CD SYSTEM CONTROL
6/8	UX-V500N/UX-V50V	- CD CHANGER MECHANISM CONTROL
7/8	UX-V500N/UX-V50V	- TAPES DECK MECHANISM CONTROL
8/8	UX-V500N/UX-V50V	- TAPES CIRCUITS SUCH AS PRE-AMP AND BIAS
9/8	UX-V500N/UX-V50V	- TUNER RF/IF/FM MULTIPLEX
10/8	UX-V500N/UX-V50V	- MIC AMP, ECHO, MIC MIX CIRCUIT
11/8	UX-V500N/UX-V50V	- CD CONTROL MECHOM CIRCUIT
12/8	UX-V500N/UX-V50V	- VIDEO CONTROL CIRCUIT

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

VERSION CODES

UT	TATAM
UL	SAUDI ARABIA
UK	CHINA
UL	KOREA
US	SINGAPORE AND UNIVERSAL EXCEPT ALL OF ABOVE

▲ 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. 2. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/16W 1% METAL GLAZE RESISTOR. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM(S). ALL CAPACITANCE VALUES ARE IN pF(10⁻¹²). ALL INDUCTANCE VALUES ARE IN mH(10⁻³). ALL 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.

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Printed circuit boards

■ Main board

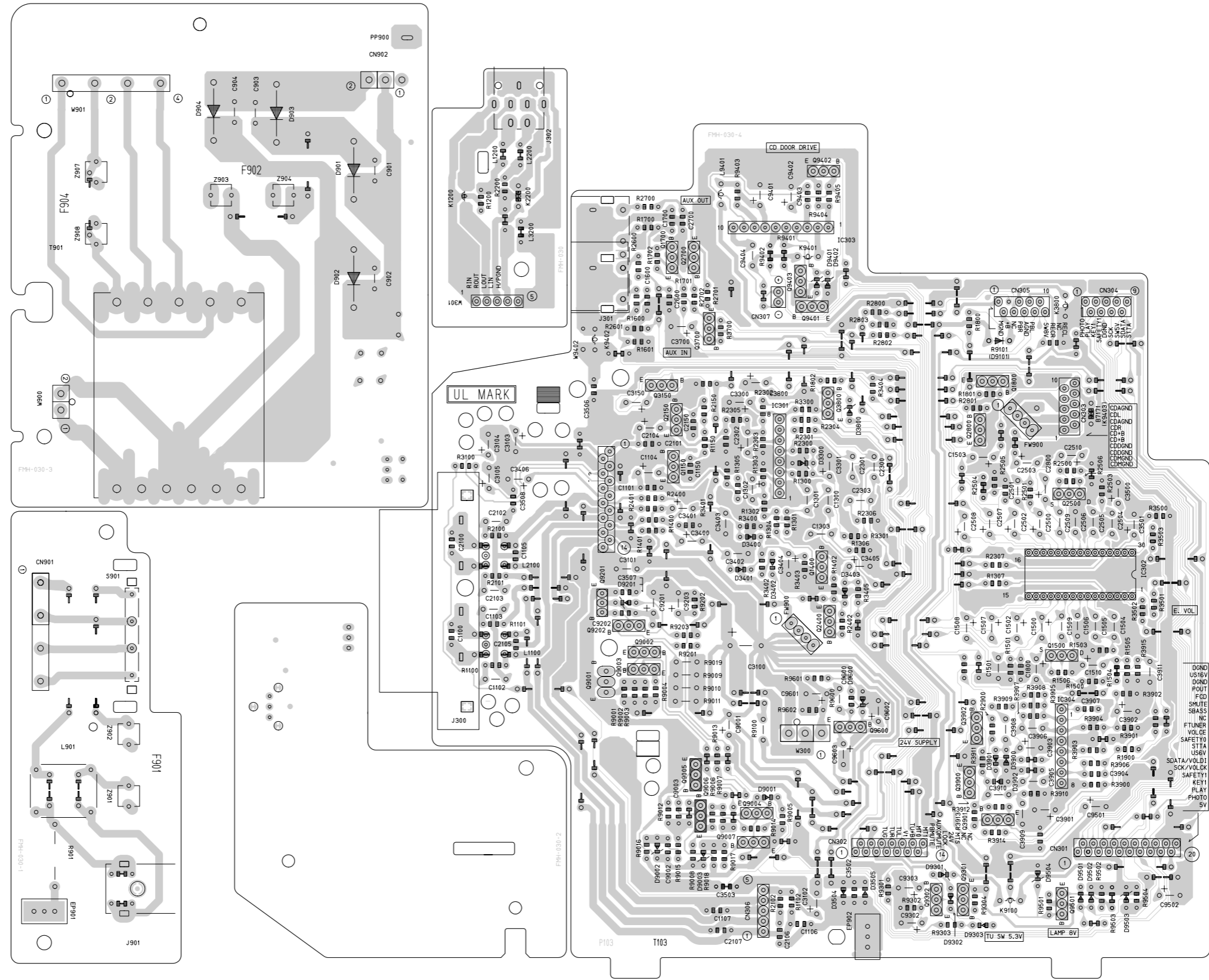
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A

B

C

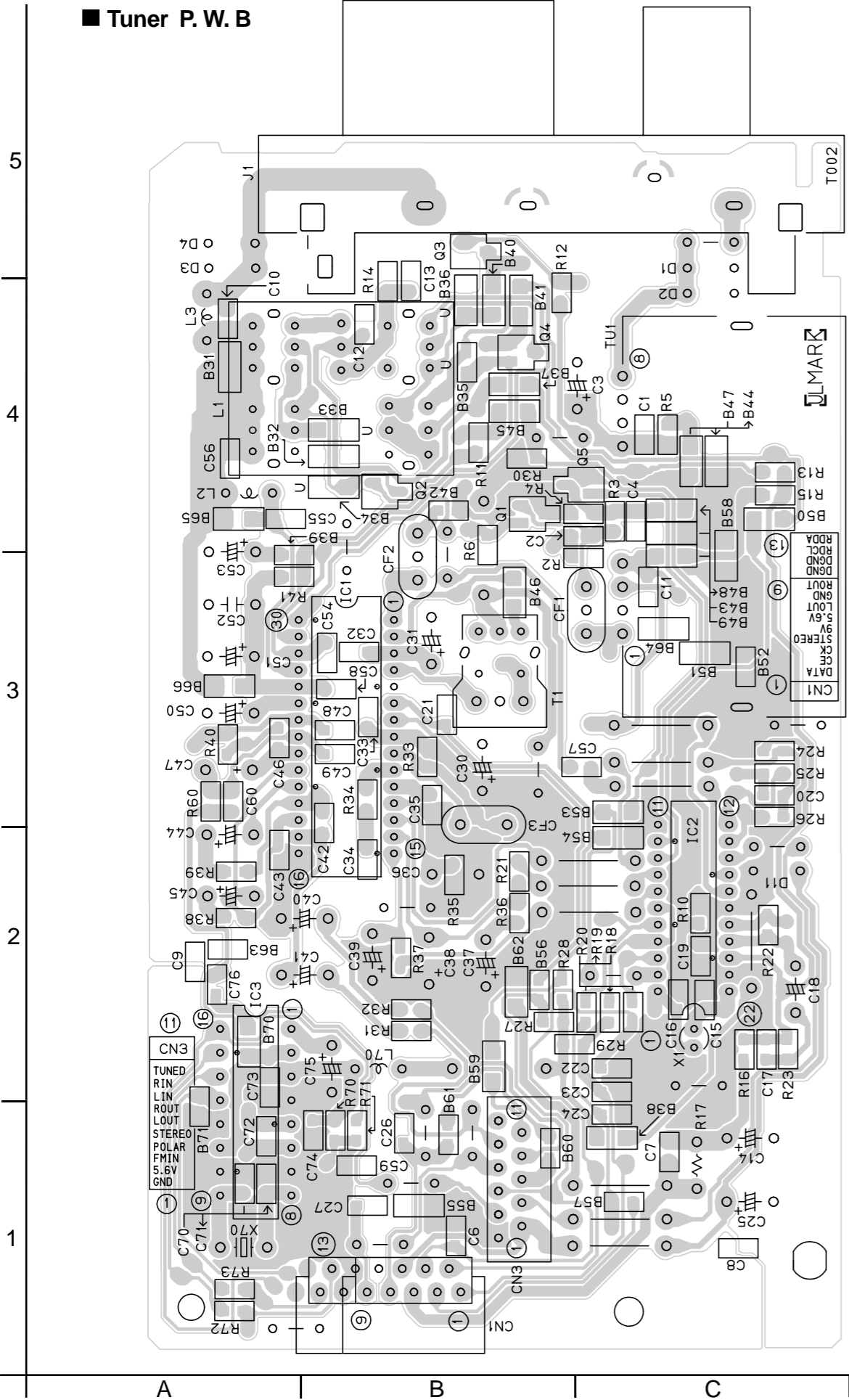
D

E

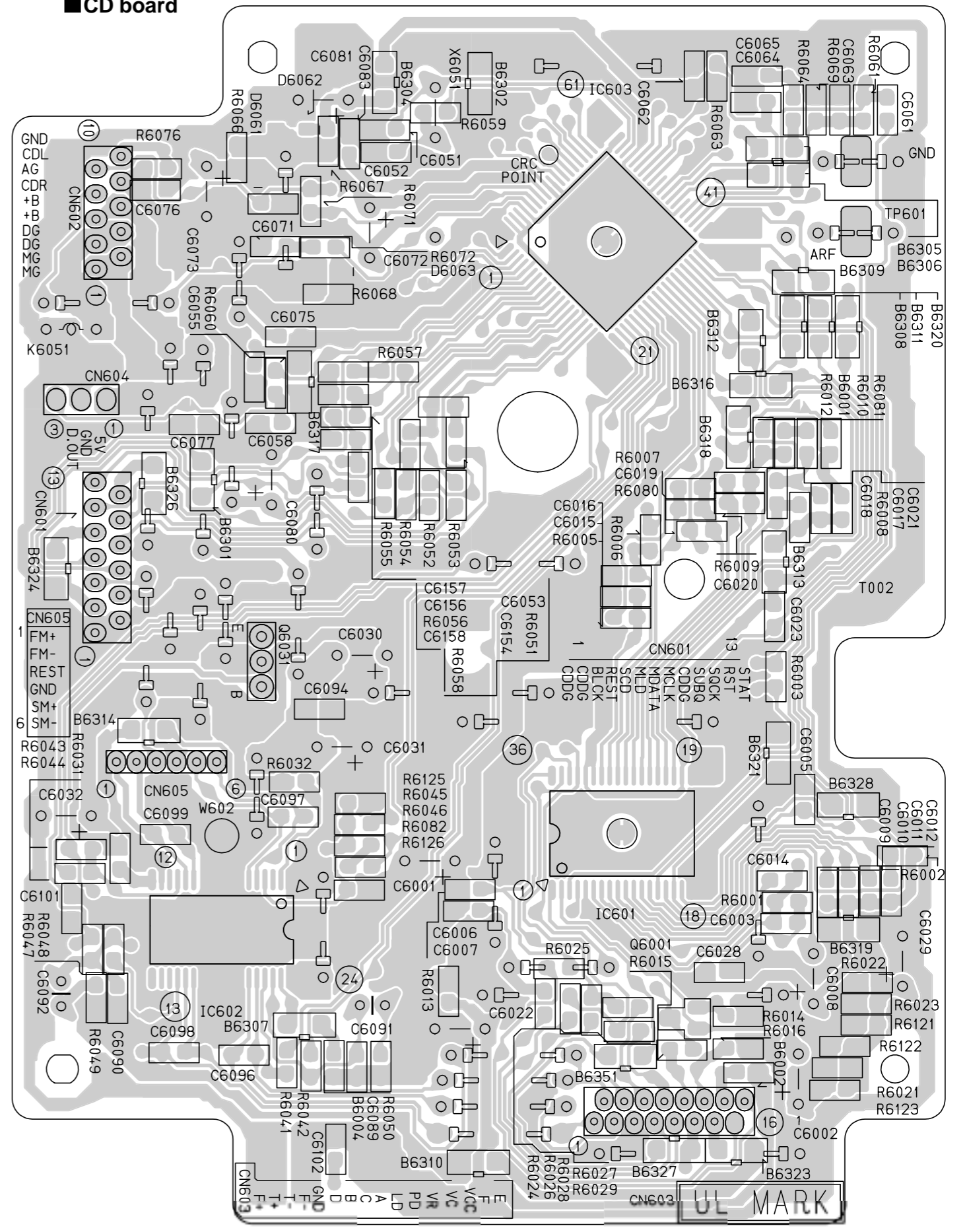
F

G

■ Tuner P. W. B

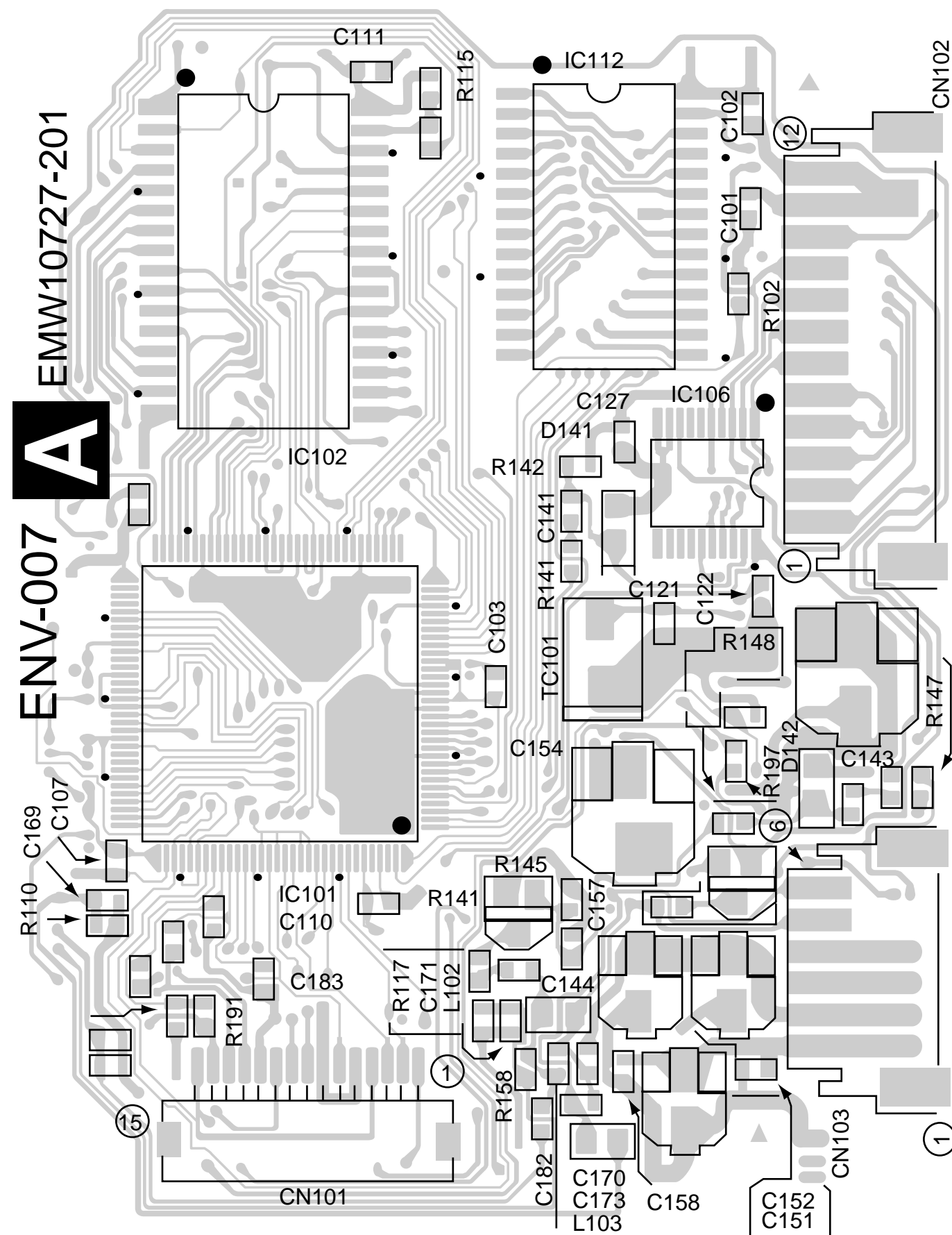
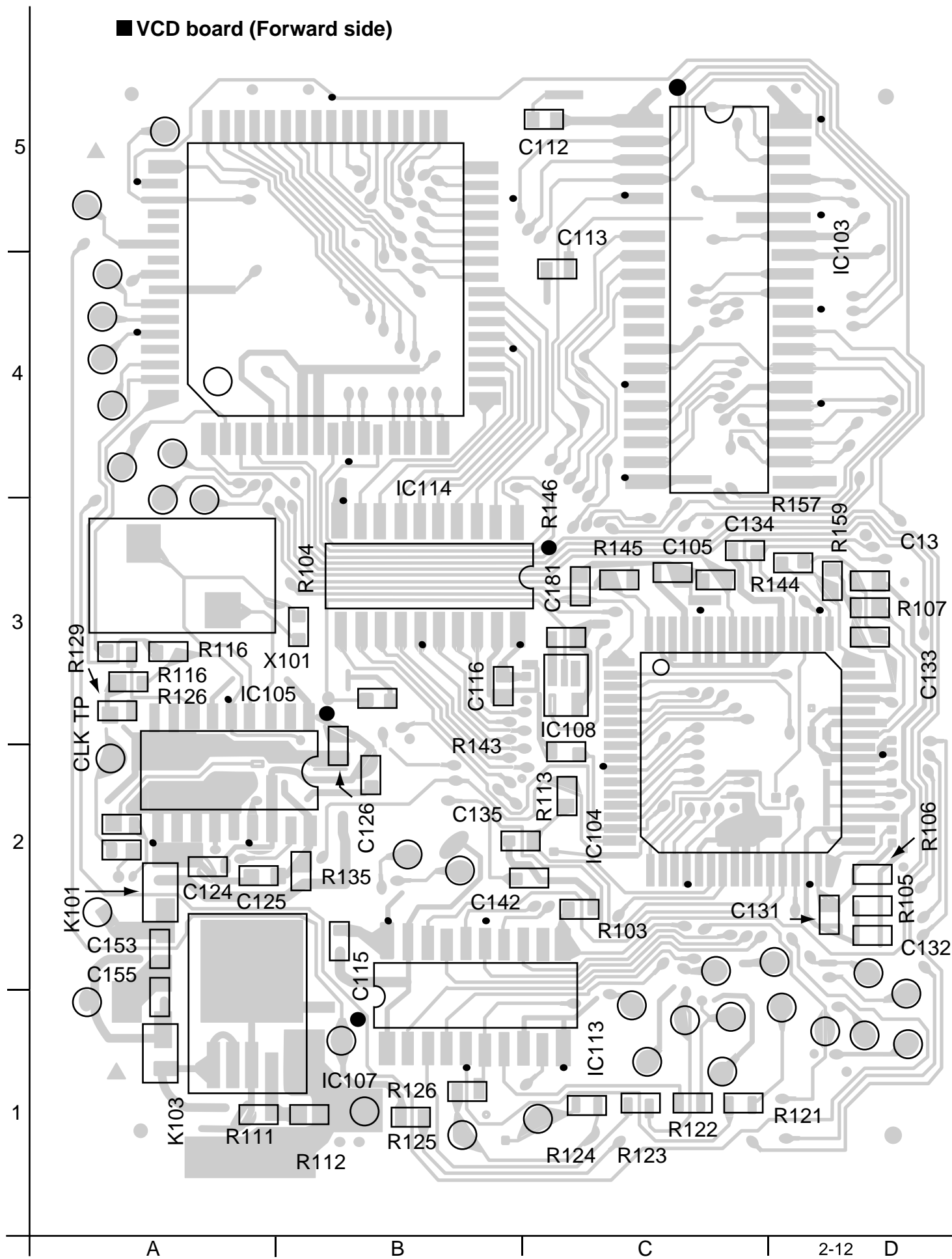


■ CD board



■ VCD board (Forward side)

■ VCD board (Reverse side)



ENV-007 A EMW10727-201