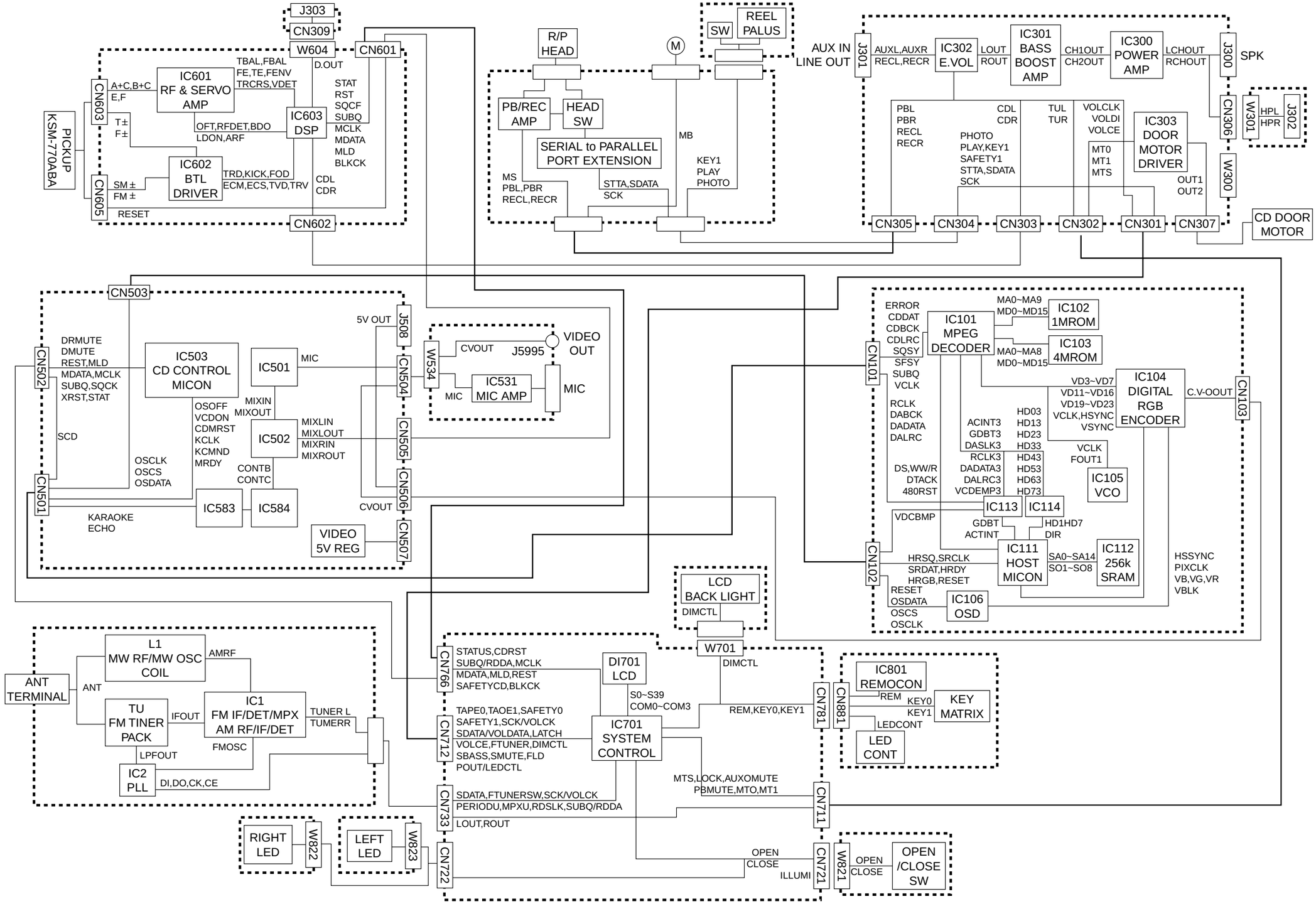
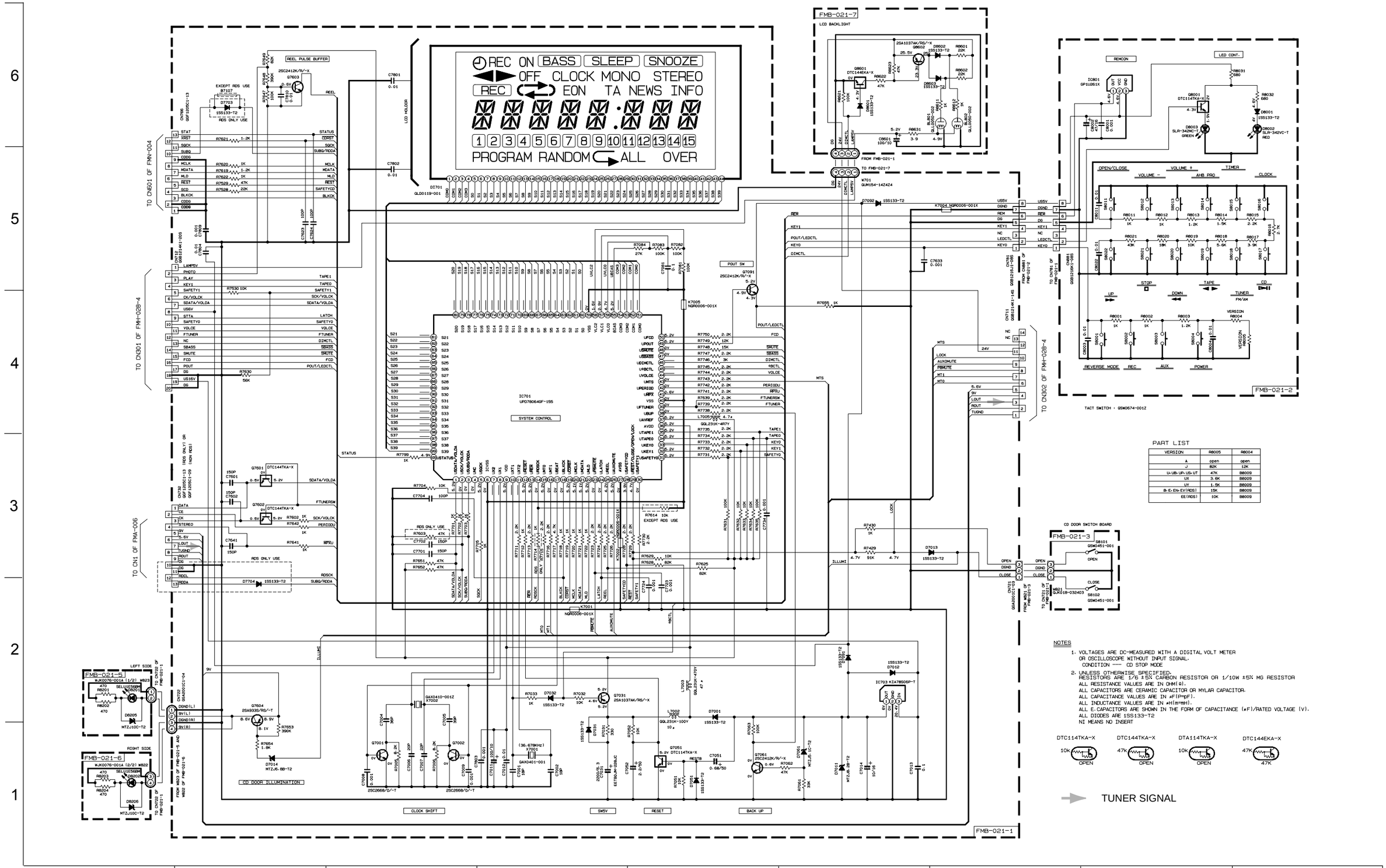
# Block diagram



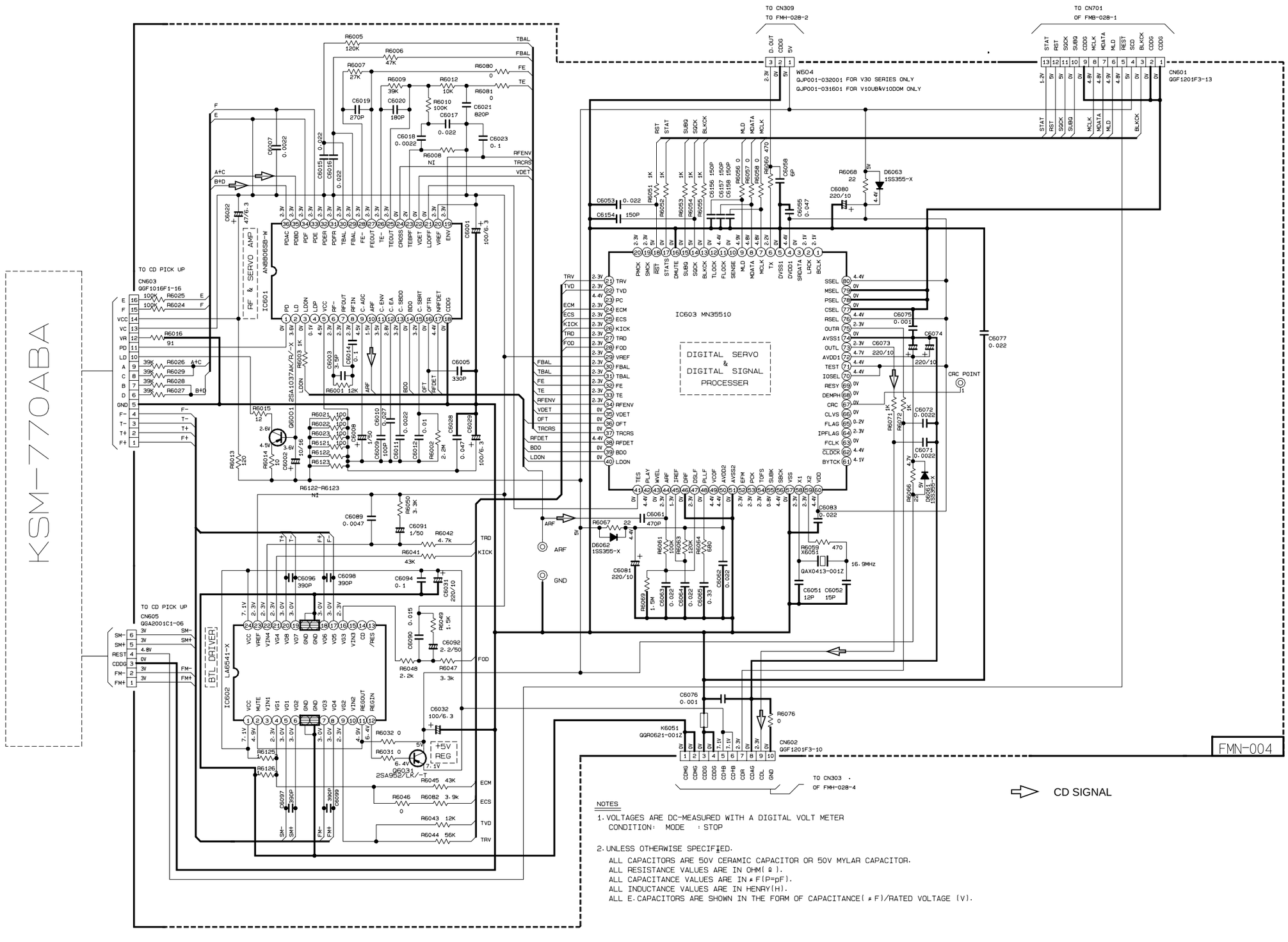
UX-V50V
UX-V50GN

# Standard schematic diagrams

## ■ CPU & LCD driver circuit



## ■ CD servo circuit



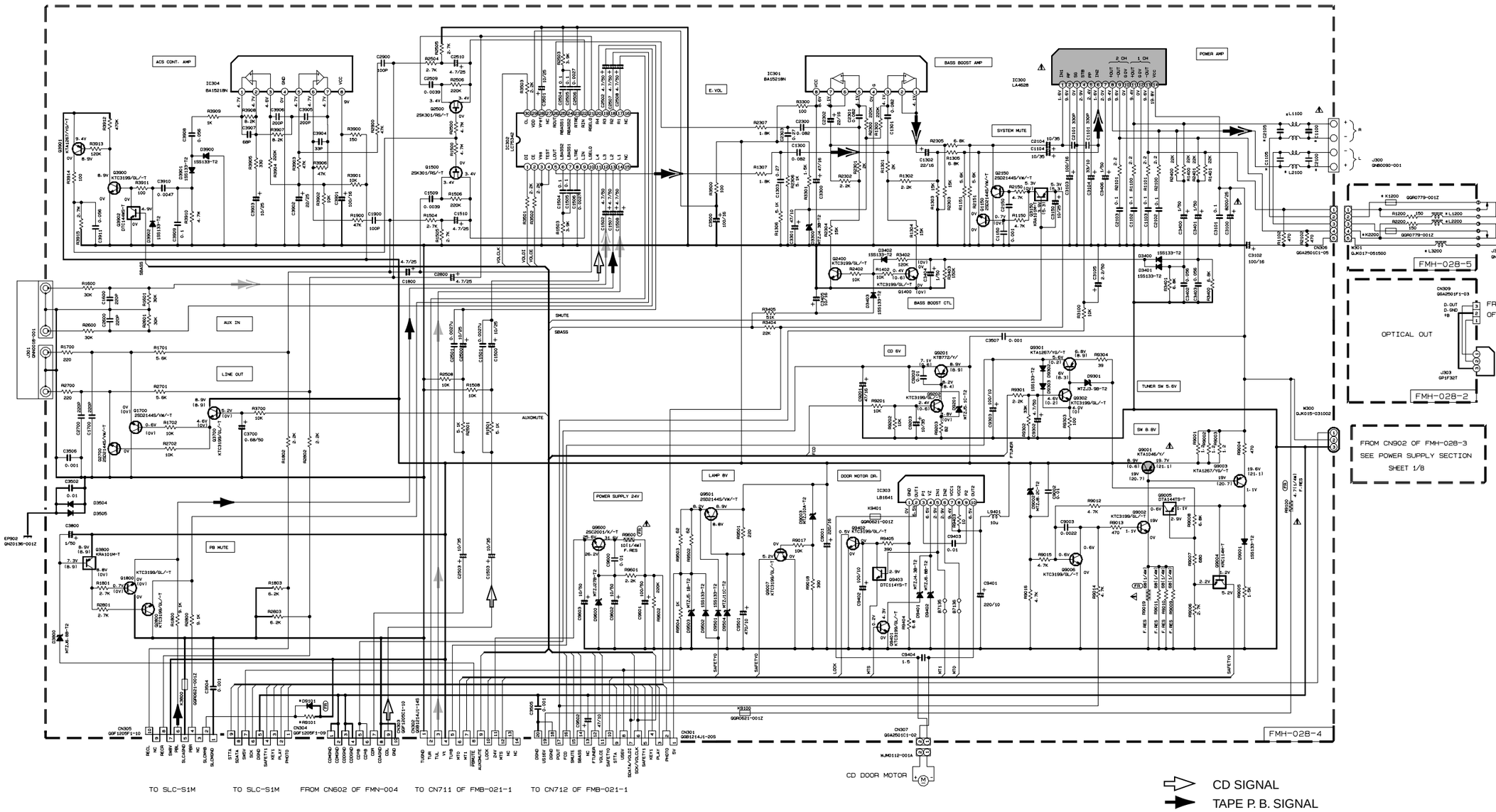

NOTES

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 μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN HENRY(H).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE( μF)/RATED VOLTAGE (V).

UX-V50V
UX-V50GN

## ■ Power amplifier circuit




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

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

* PART LIST

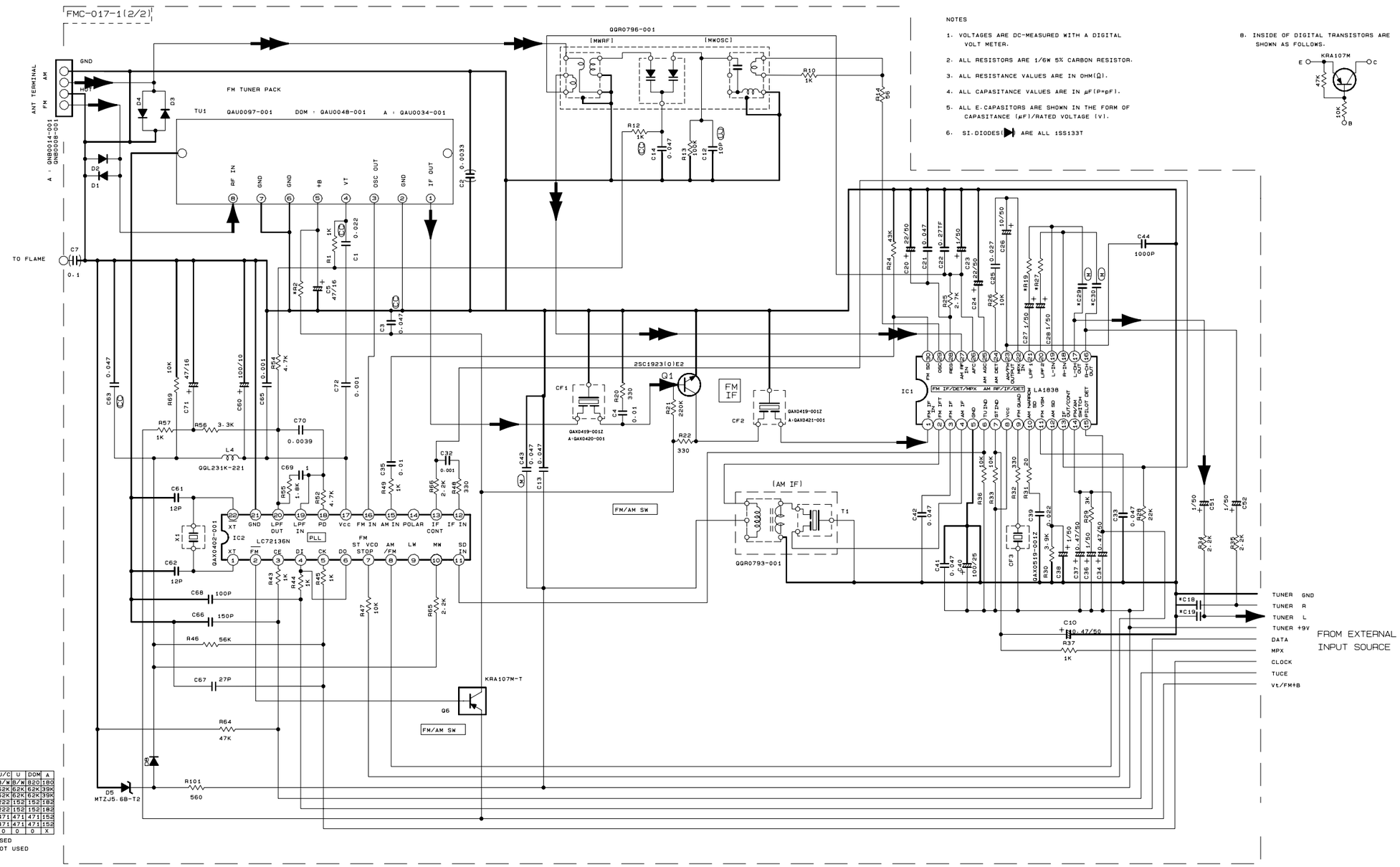
| MODEL | PART / VERSION | L1200/2200/3200 | K1200/2200 | C1105/2105 | L1100 | L2100 | C1100/2100 | D9101 | R9101 |
|---|---|---|---|---|---|---|---|---|---|
| | B/E/EE/EN/EV/A | GQL231K-470Y | GQR0779-001Z | 220p | GQR0797-001 | GQR0797-001 | 0.0033u | NONE | 5.6Ω(1/4W) F.RES |
| | DOM | B7128/7130/7131 | B7129/7132 | NONE | B7208/7209 | B7211/7212 | NONE | 1SR35-400A-T5 | NONE |
| | J/C | B7128/7130/7131 | B7129/7132 | NONE | B7208/7209 | B7211/7212 | NONE | 1SR35-400A-T5 | NONE |
| | U/US/UB/UT/UX/UY | B7128/7130/7131 | B7129/7132 | NONE | B7208/7209 | B7211/7212 | NONE | 1SR35-400A-T5 | NONE |
| | UP | B7128/7130/7131 | B7129/7132 | NONE | B7208/7209 | B7211/7212 | NONE | 1SR35-400A-T5 | NONE |

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE
   INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
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(mF=μF).
   ALL INDUCTANCE VALUES ARE IN ±H(m=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (±F)/RATED VOLTAGE (V).
   ALL DIODES(Dev. Name:1SS133-T2)

KRC114M-T OPEN · KRA102M-T 4.7K · DTA144TS-T OPEN

## ■ Tuner circuit




| | J/C | U | DOM | A |
|---|---|---|---|---|
| R2 | B/W | B/W | 820 | 180 |
| R19 | 62K | 62K | 62K | 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 | 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 | 3.2 | 2.8 | 3.1 | 0 | 0 | 3.6 | 3.6 | 3.6 | 3.6 | 2.3 |
| | 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 | 3.2 | 2.8 | 2.9 | 0.6 | 0.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.1 |
| IC2 | 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 | | | | | | | | |

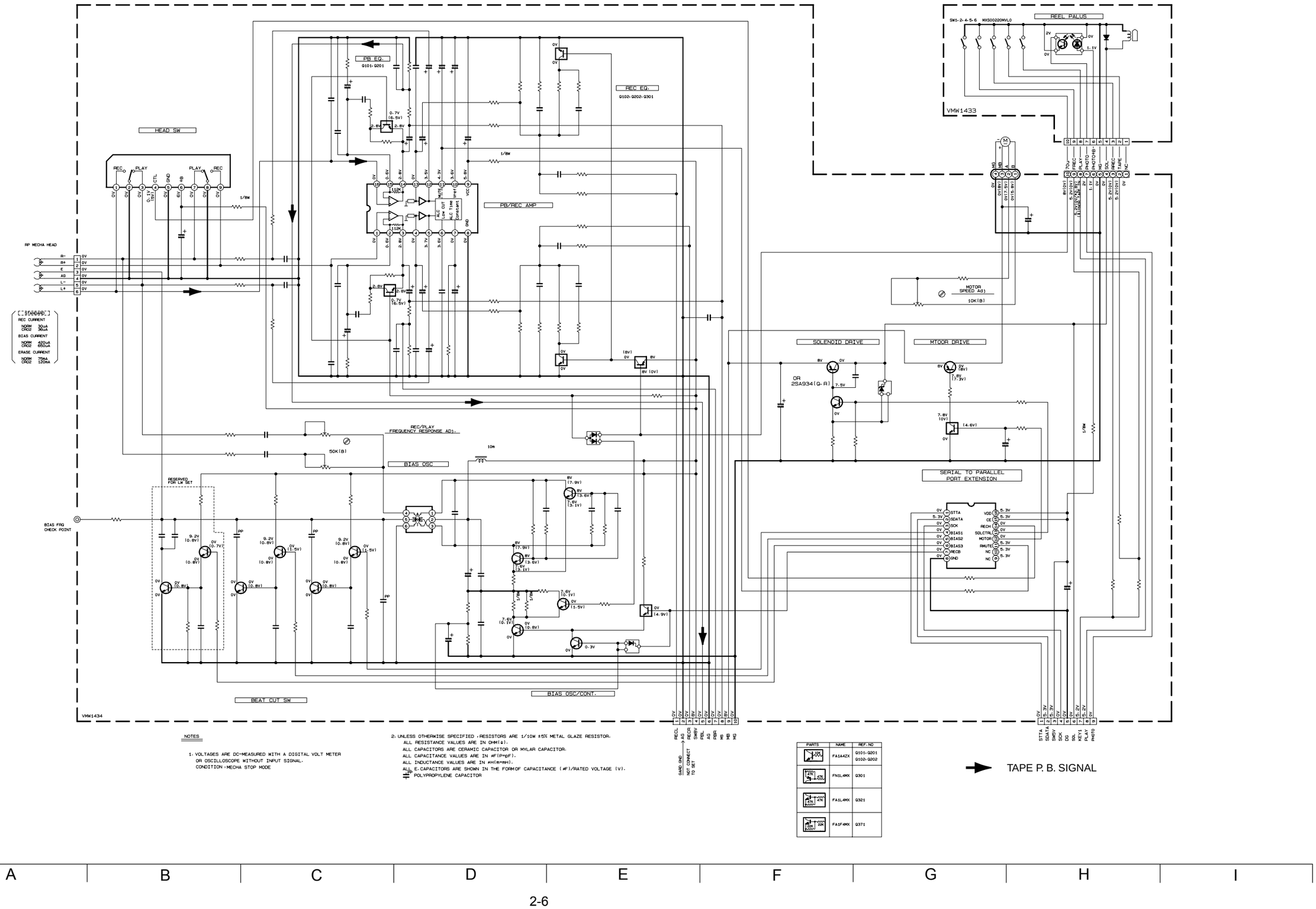
| Tr NO. | Q1 | | | Q6 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PIN NO. | E | C | B | E | C | B | | | |
| FM 87.5MHz NO SIGNAL | 0 | 7.4 | 0.8 | 8.4 | 8.3 | 0 | | | |
| AM 522KHz NO SIGNAL | 0 | 0 | 0 | 8.5 | 0 | 8.4 | | | |
| Tr NO. | Q2 | | | Q3 | | | Q4 | | |
| PIN NO. | E | C | B | 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/DOM

FM/TUNER MAIN SIGNAL
AM SIGNAL

UX-V50V
UX-V50GN

## ■ Cassette mecha control circuit




NOTES

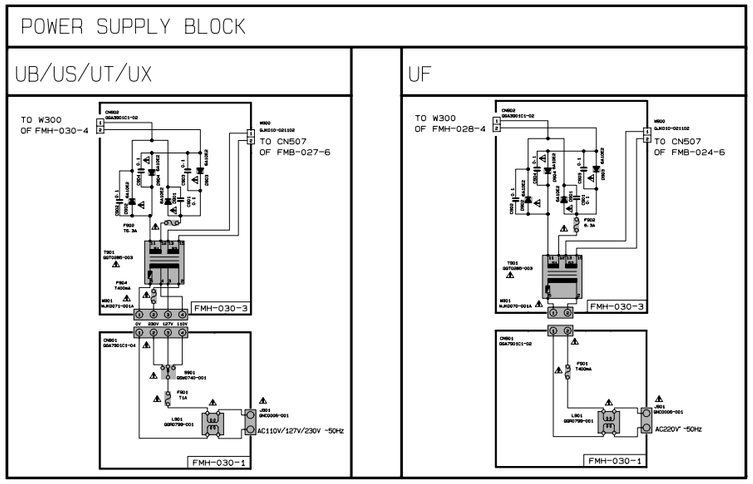
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION : MECHA STOP MODE

2. UNLESS OTHERWISE SPECIFIED ,RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
   ALL RESISTANCE VALUES ARE IN 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).
   PP POLYPROPYLENE CAPACITOR

| PARTS | NAME | REF.NO |
|---|---|---|
| | FA1A4ZX | Q101·Q201<br>Q102·Q202 |
| | FN1L4MX | Q301 |
| | FA1L4MX | Q321 |
| | FA1F4MX | Q371 |

TAPE P. B. SIGNAL

## ■ Power supply circuit



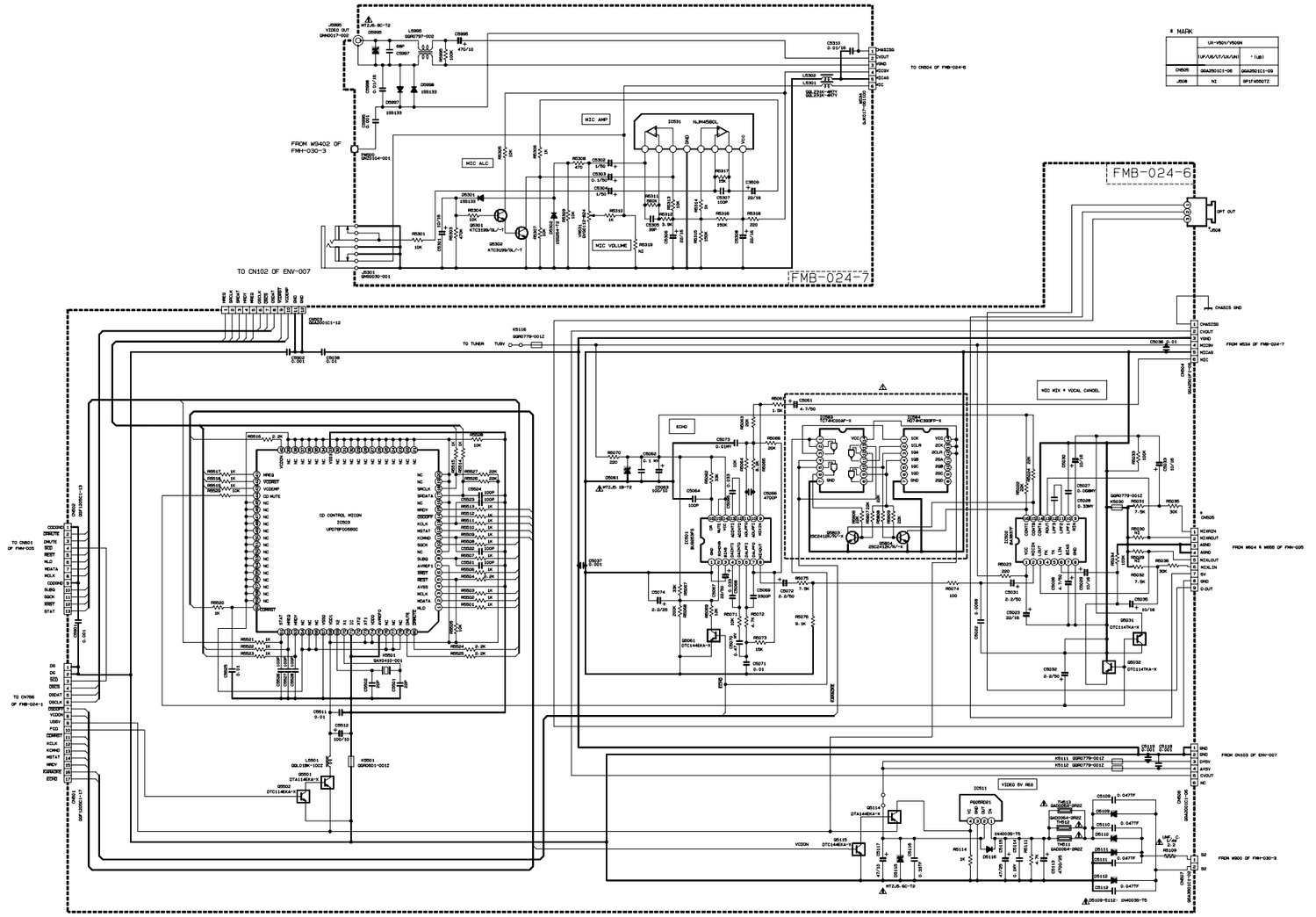

| EXPLANATION OF OVERALL OF SCHEMATIC | | |
|---|---|---|
| MODEL : UX-V50GN/UX-V50V | | |
| SHEET NUMBER | MODEL NUMBERS TO BE APPLIED | CIRCUITS DESCRIPTION |
| 1/8 | UX-V50GN/UX-V50V | . PRIMARY WITH MAINS TRANSFORMER |
| 2/8 | UX-V50GN/UX-V50V | . DC REGULATORS/AUDIO OUTPUT<br>. EXTERNAL INPUT- SOURCE SELECTOR SWITCH |
| 3/8 | UX-V50GN/UX-V50V | . LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL |
| 4/8 | UX-V50GN/UX-V50V | . CD SERVO AND CD SYSTEM CONTROL<br>. CD CHANGER MECHANISM CONTROL |
| 5/8 | UX-V50GN/UX-V50V | . TAPE DECK MECHANISM CONTROL<br>. TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS |
| 6/8 | UX-V50GN/UX-V50V | . TUNER RF/IF/FM MULTIPLEX |
| 7/8 | UX-V50GN/UX-V50V | . MIC AMP., ECHO, MIC MIX CIRCUIT<br>. CD CONTROL MICOM CIRCUIT |
| 8/8 | UX-V50GN/UX-V50V | . VIDEO CONTROL CIRCUIT |

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

| VERSION CODES |
|---|
| UT : TAIWAN<br>UA : SAUDI ARABIA<br>UC : CHINA<br>UH : HONG KONG<br>US : SINGAPORE AND UNIVERSAL EXCEPT ALL OF ABOVES |

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

## ■ Video control circuit



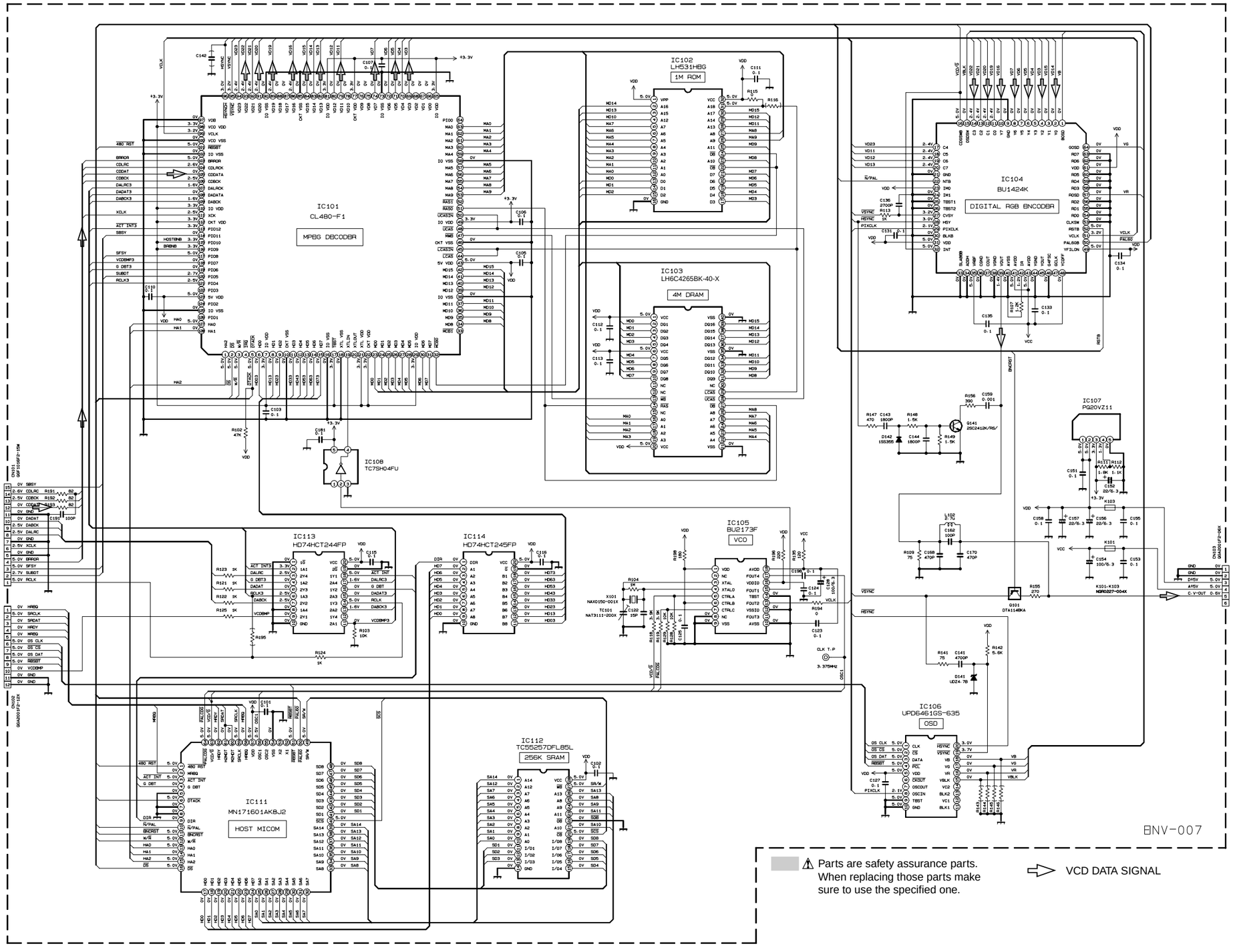

NOTES 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION ---- CD STOP MODE

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 Ω=Ω(Ω).
ALL CAPACITANCE VALUES ARE IN μF(=μF).
ALL INDUCTANCE VALUES ARE IN μH(=mH).
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.

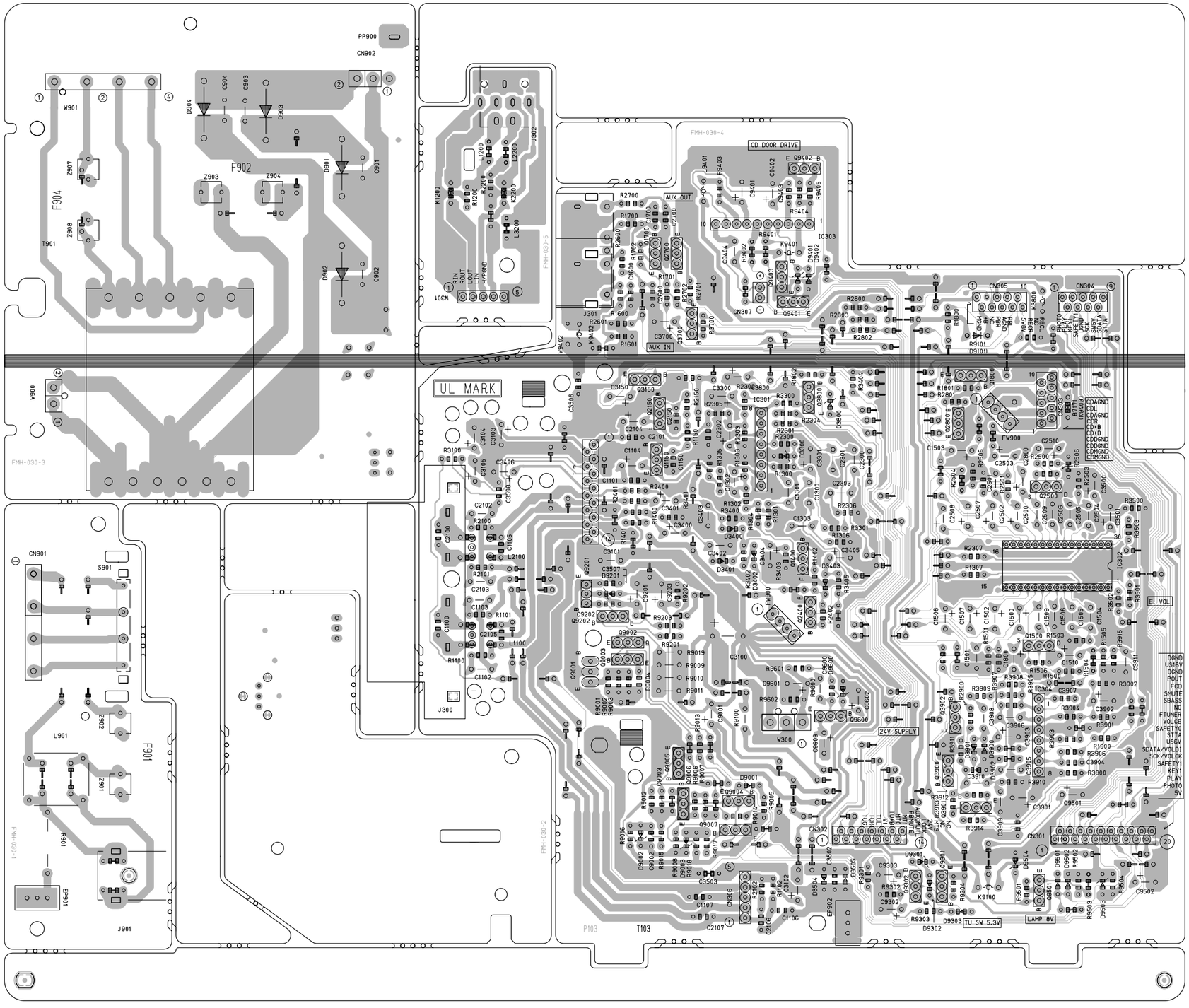
UX-V50V
UX-V50GN

## ■ Video CD control circuit



# Printed circuit boards

## ■ Main board

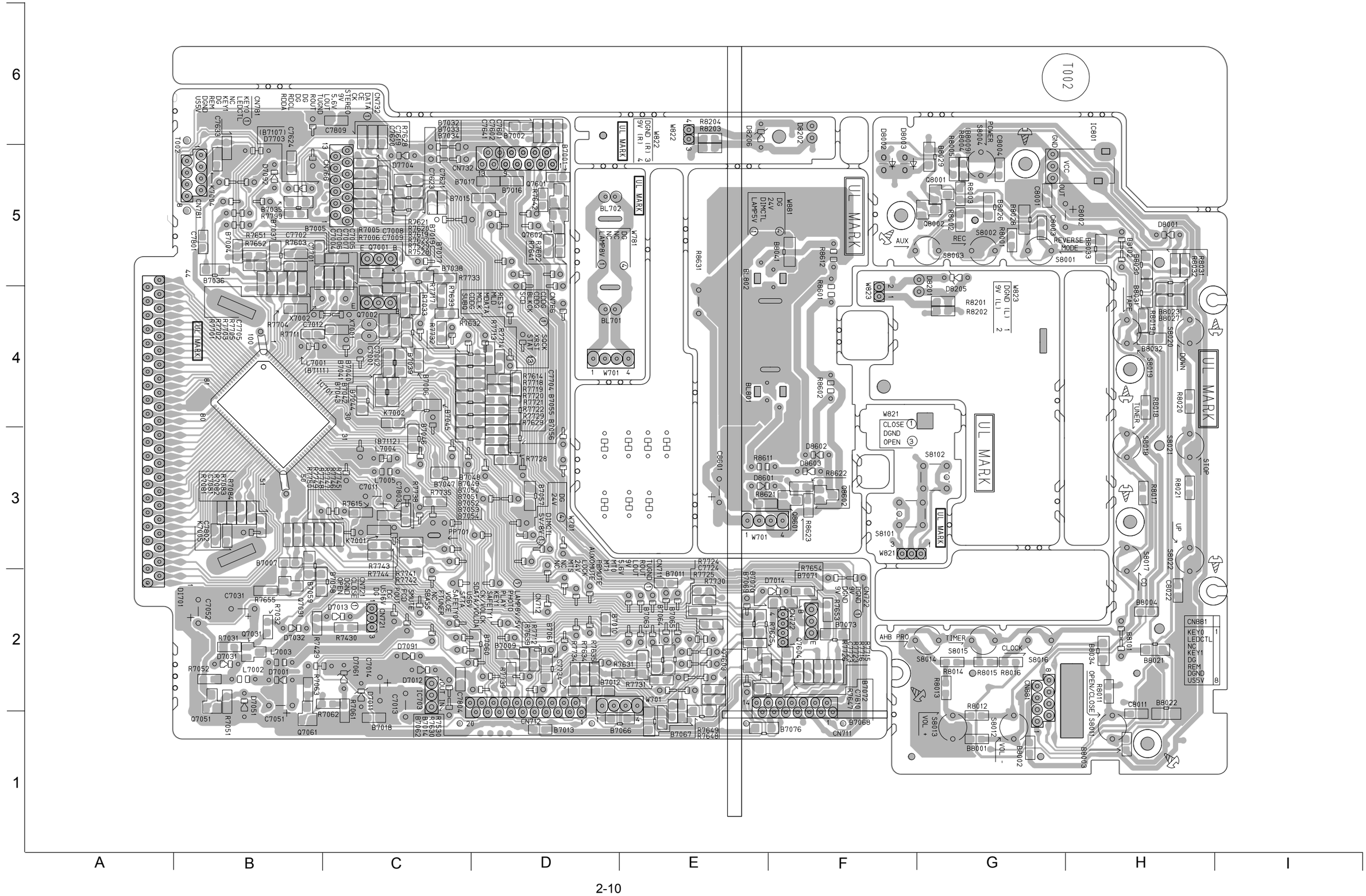



A B C D E F G H I

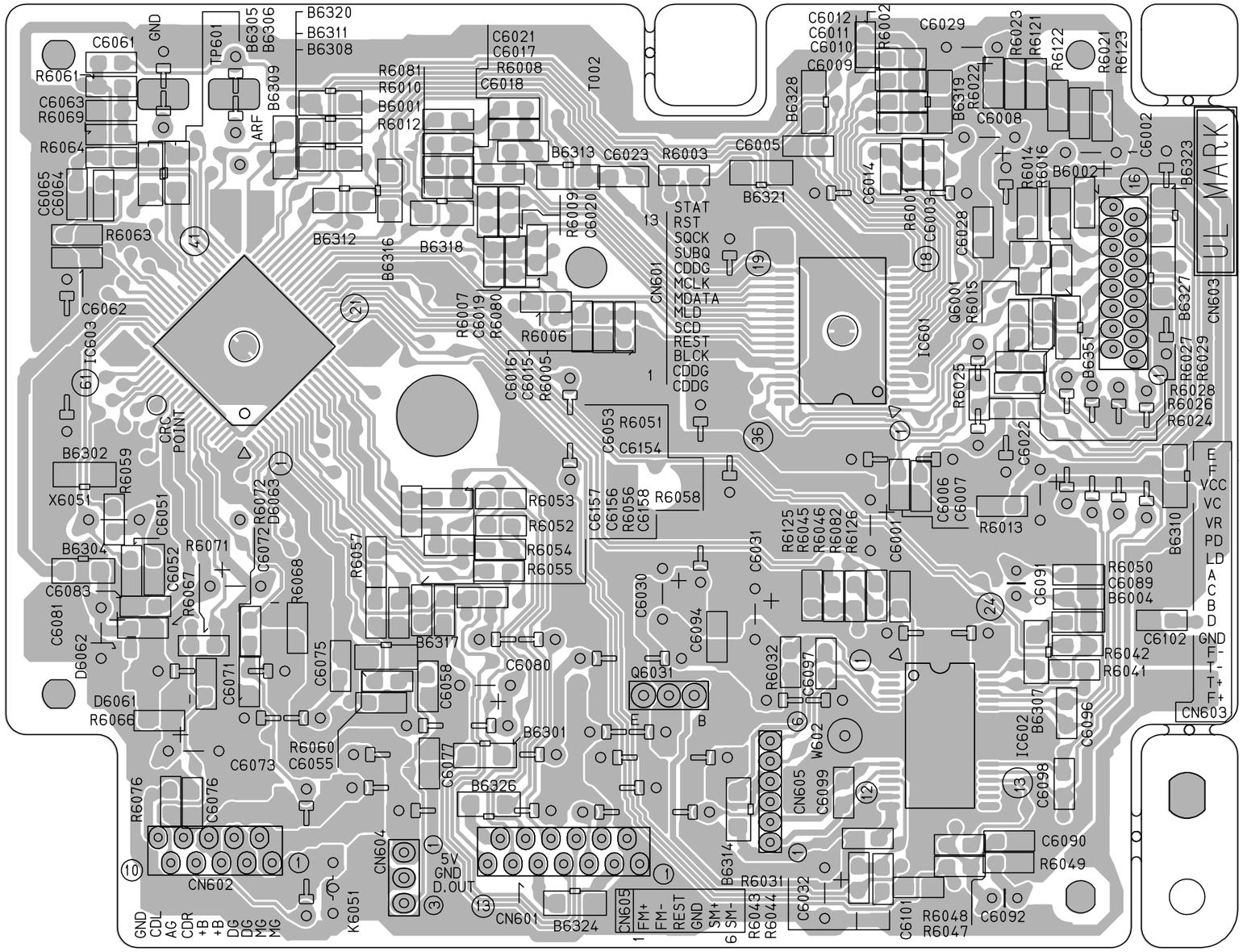
1 2 3 4 5 6

UX-V50V
UX-V50GN

## ■ Micon P. C. board

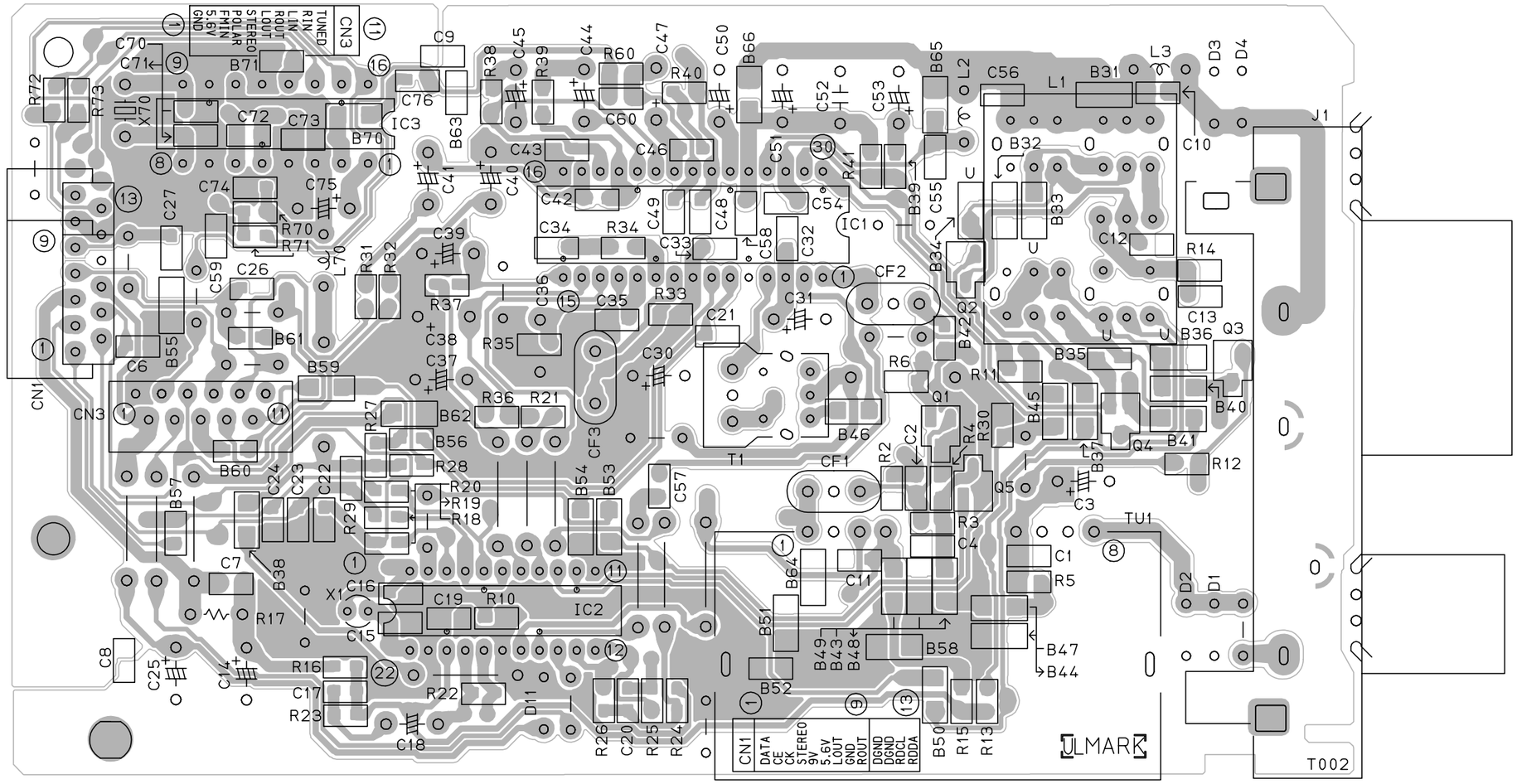


■**CD board**

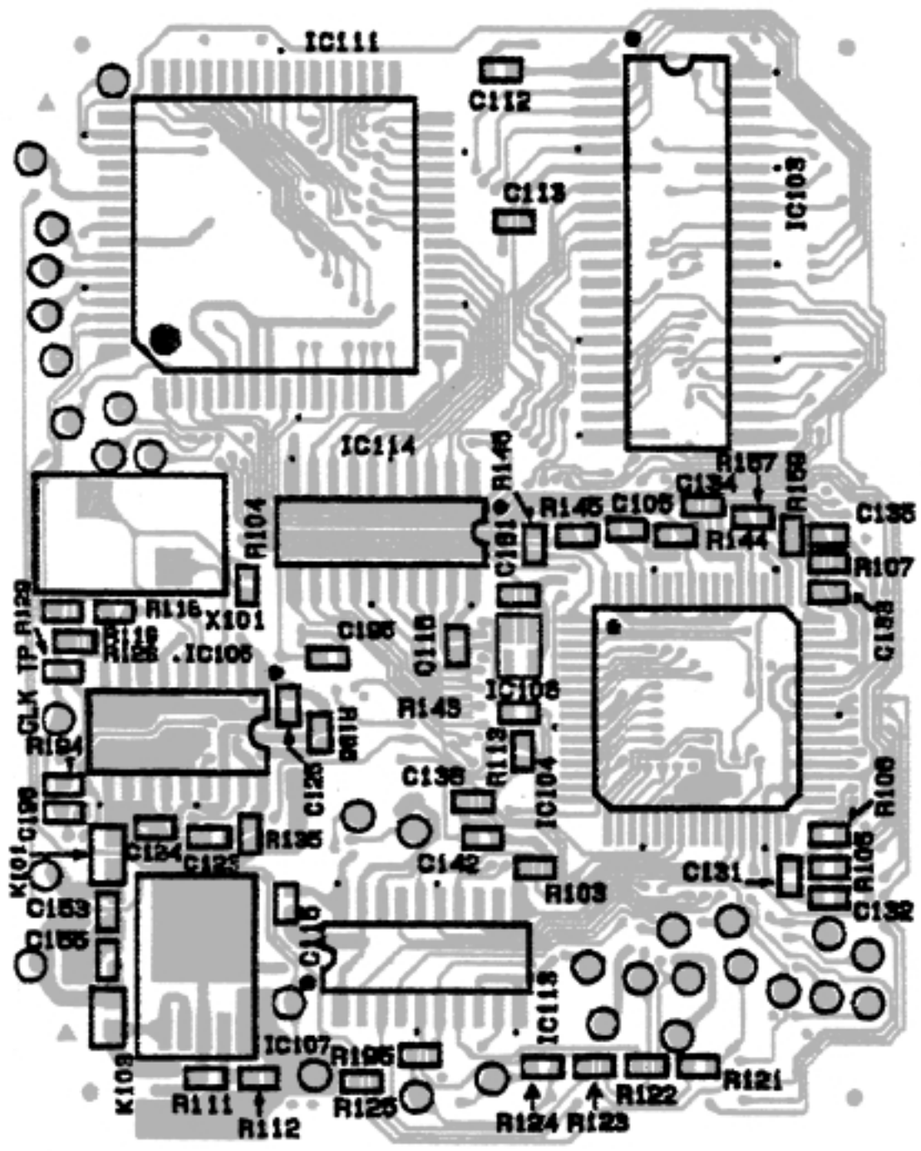

C6061
GND
TP601
B6305
B6306
B6320
B6311
B6308
R6061
C6063
R6069
R6064
C6065
C6064
R6063
C6062
IC603
B6309
ARF
R6081
R6010
B6001
R6012
C6021
C6017
R6008
C6018
T002
B6313
C6023
R6003
C6005
B6321
B6328
C6012
C6011
C6010
C6009
R6002
C6029
R6023
R6121
R6122
R6021
R6123
B6319
R6022
C6008
C6014
R6001
C6003
C6028
R6014
R6016
B6002
C6002
B6323
B6327
CN603
UL MARK
B6312
B6316
B6318
R6009
C6020
CN601
STAT
RST
SQCK
SUBQ
CDDG
MCLK
MDATA
MLD
SCD
REST
BLCK
CDDG
CDDG
R6007
C6019
R6080
R6006
C6016
C6015
R6005
IC601
Q6001
R6015
R6025
B6351
R6028
R6026
R6024
R6027
R6029
C6022
C6053
R6051
C6154
B6302
X6051
R6059
CRC
POINT
C6051
B6304
C6083
C6081
D6062
R6053
R6052
R6054
R6055
C6157
C6156
R6056
C6158
R6058
R6125
R6045
R6046
R6082
R6126
C6031
C6030
C6094
C6006
C6007
R6013
C6001
B6310
R6050
C6089
B6004
C6091
C6102
R6042
R6041
GND
F-
T-
T+
F+
CN603
R6072
D6063
R6071
C6052
R6067
C6072
R6068
R6057
B6317
C6075
C6071
D6061
R6066
C6058
C6080
Q6031
E
B
C
R6032
C6097
B6307
IC602
C6096
C6098
R6076
C6076
C6073
R6060
C6055
C6077
B6301
B6326
CN605
C6099
W602
C6090
R6049
CN602
CN604
5V
GND
D.OUT
CN601
B6324
B6314
R6031
C6032
R6048
R6047
C6092
C6101
K6051
GND
CDL
AG
CDR
+B
+B
DG
DG
MG
MG
CN605
FM+
FM-
REST
GND
SM+
SM-
R6043
R6044
VCC
VC
VR
PD
LD
A
C
B
D

UX-V50V
UX-V50GN

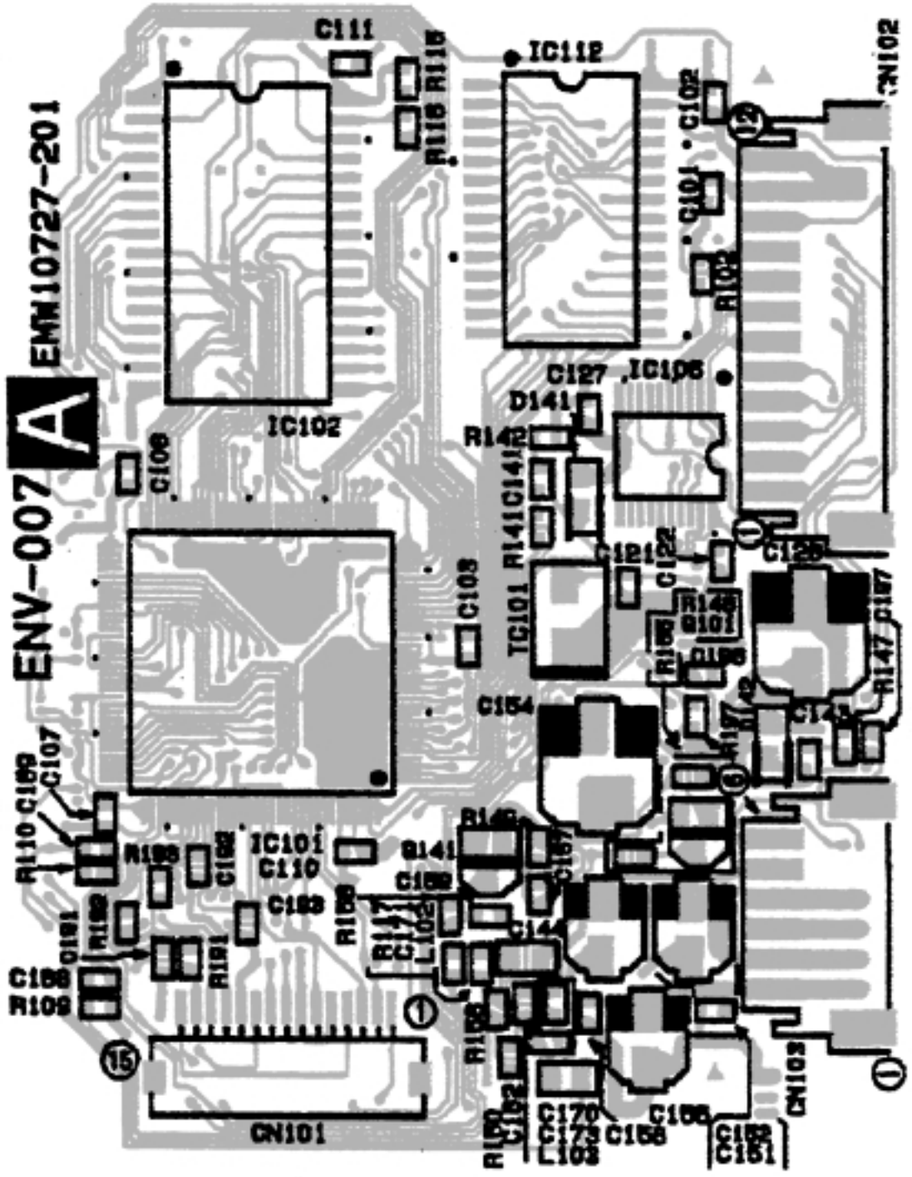
## ■ Tuner P. W. B



■ VCD board (reverse side)




■ VCD board (foward side)



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