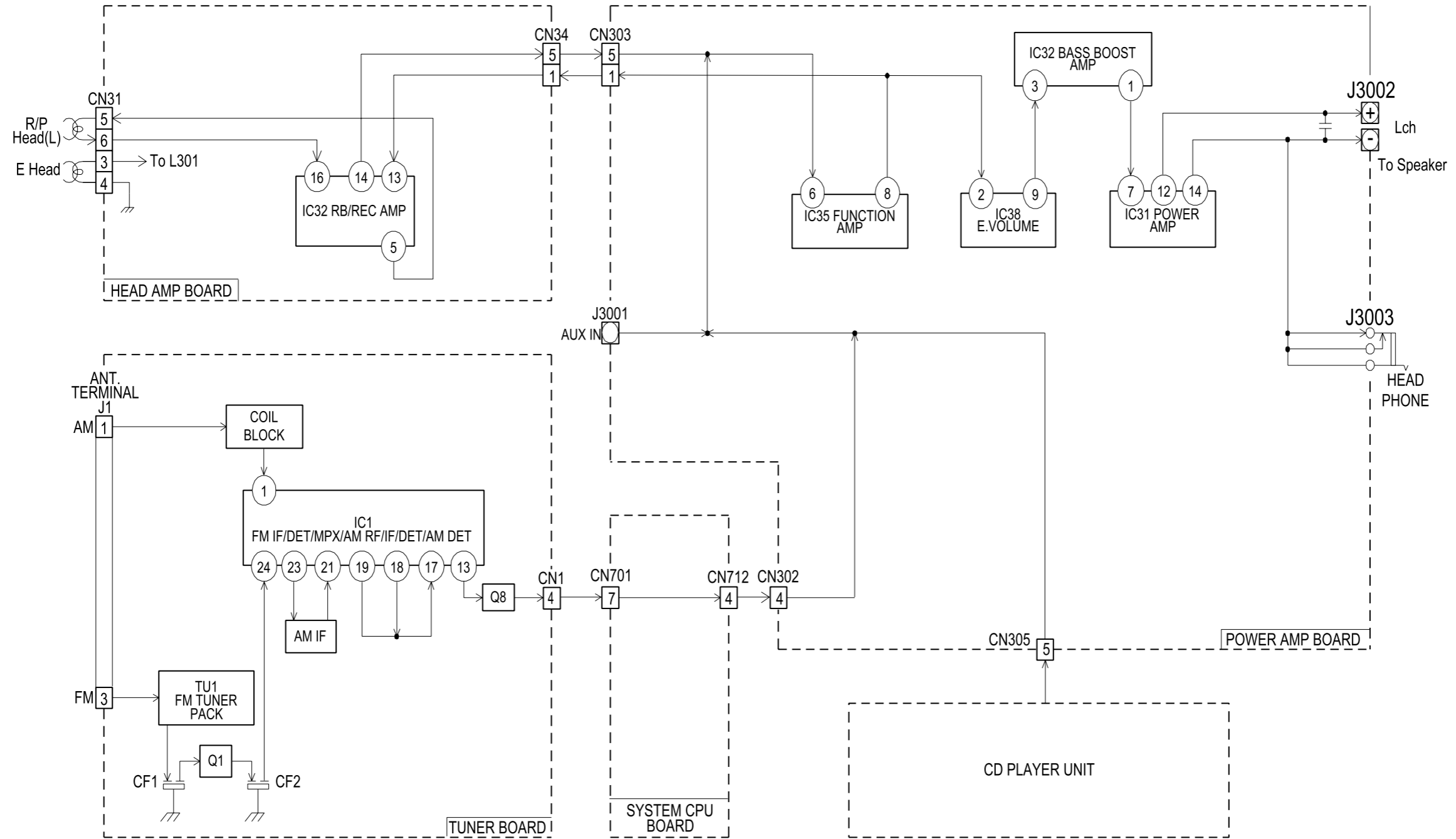
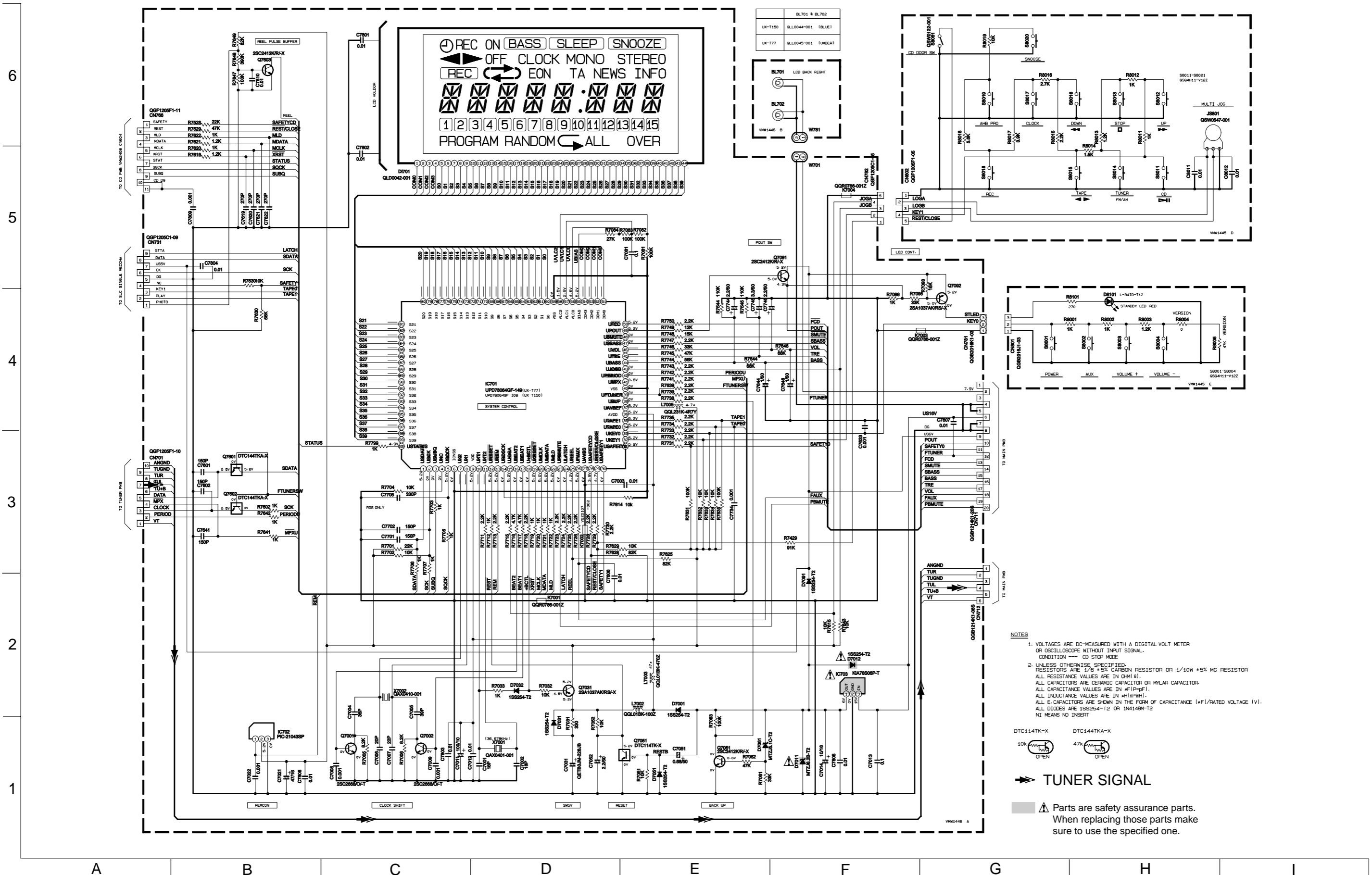


# Block diagram

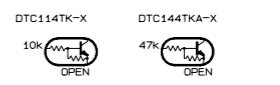


# Standard schematic diagrams

## ■ LCD system CPU section



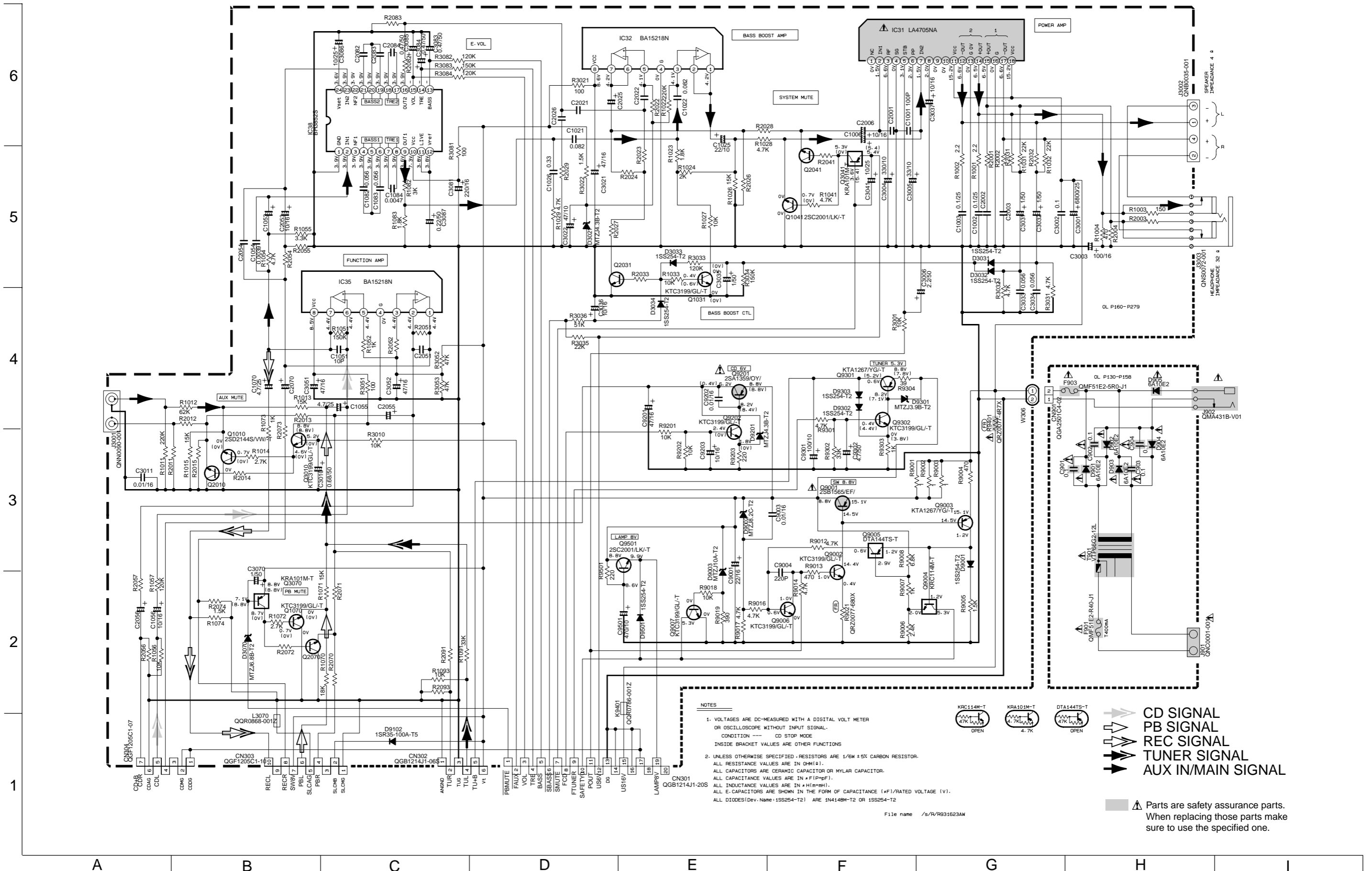
- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION — CD STOP MODE
  2. UNLESS OTHERWISE SPECIFIED:  
RESISTORS ARE 1/8 ± 5% CARBON RESISTOR OR 1/10W ± 5% MS RESISTOR  
ALL RESISTANCE VALUES ARE IN OHM (Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN #F(PpF).  
ALL INDUCTANCE VALUES ARE IN #H(mH).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (±F)/RATED VOLTAGE (V).  
ALL DIODES ARE 1SS254-T2 OR 1N4148M-T2  
NI MEANS NO INSERT



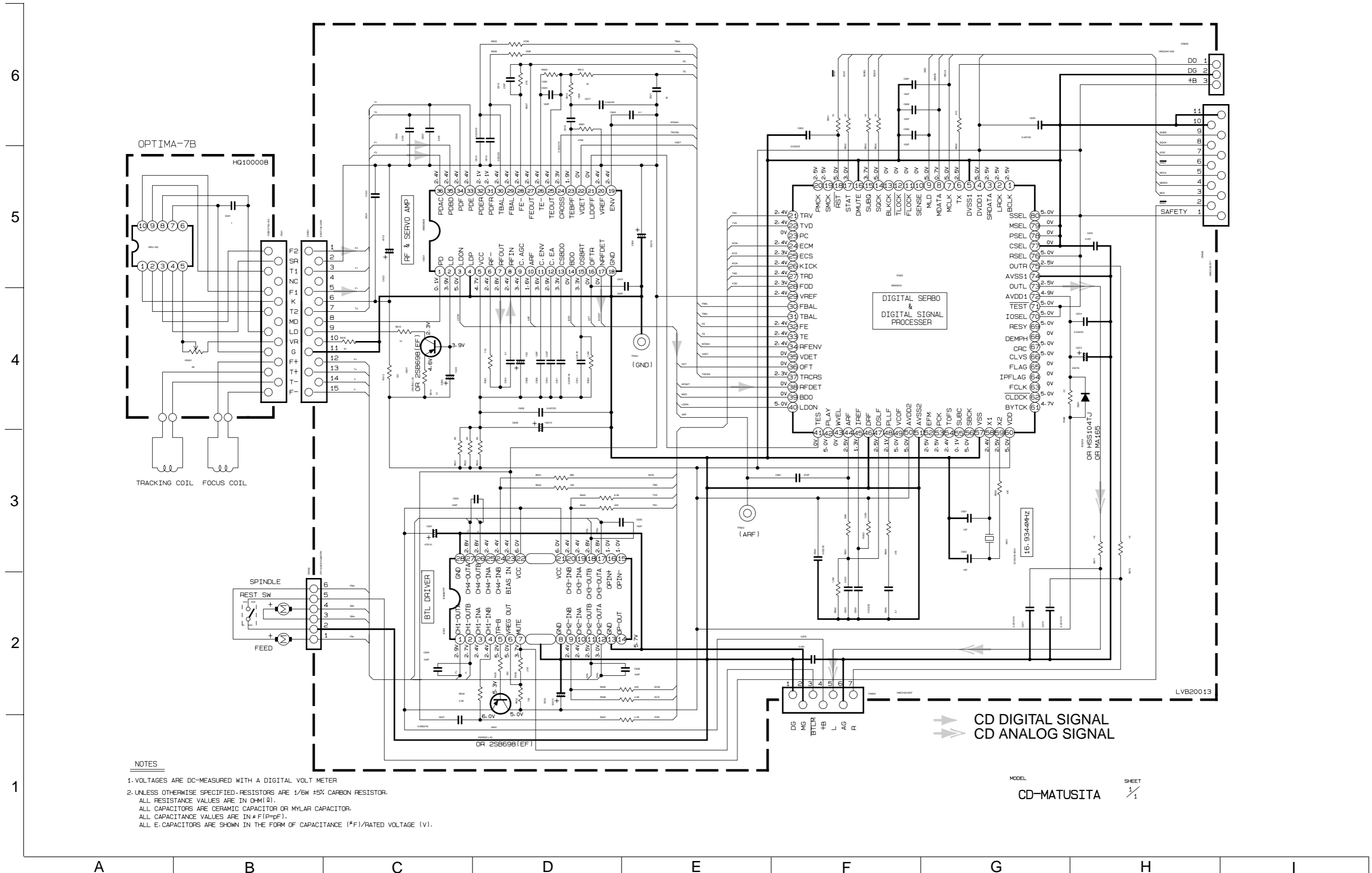
➔ TUNER SIGNAL

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

■ Function amplifier and power amplifier section



CD servo control section

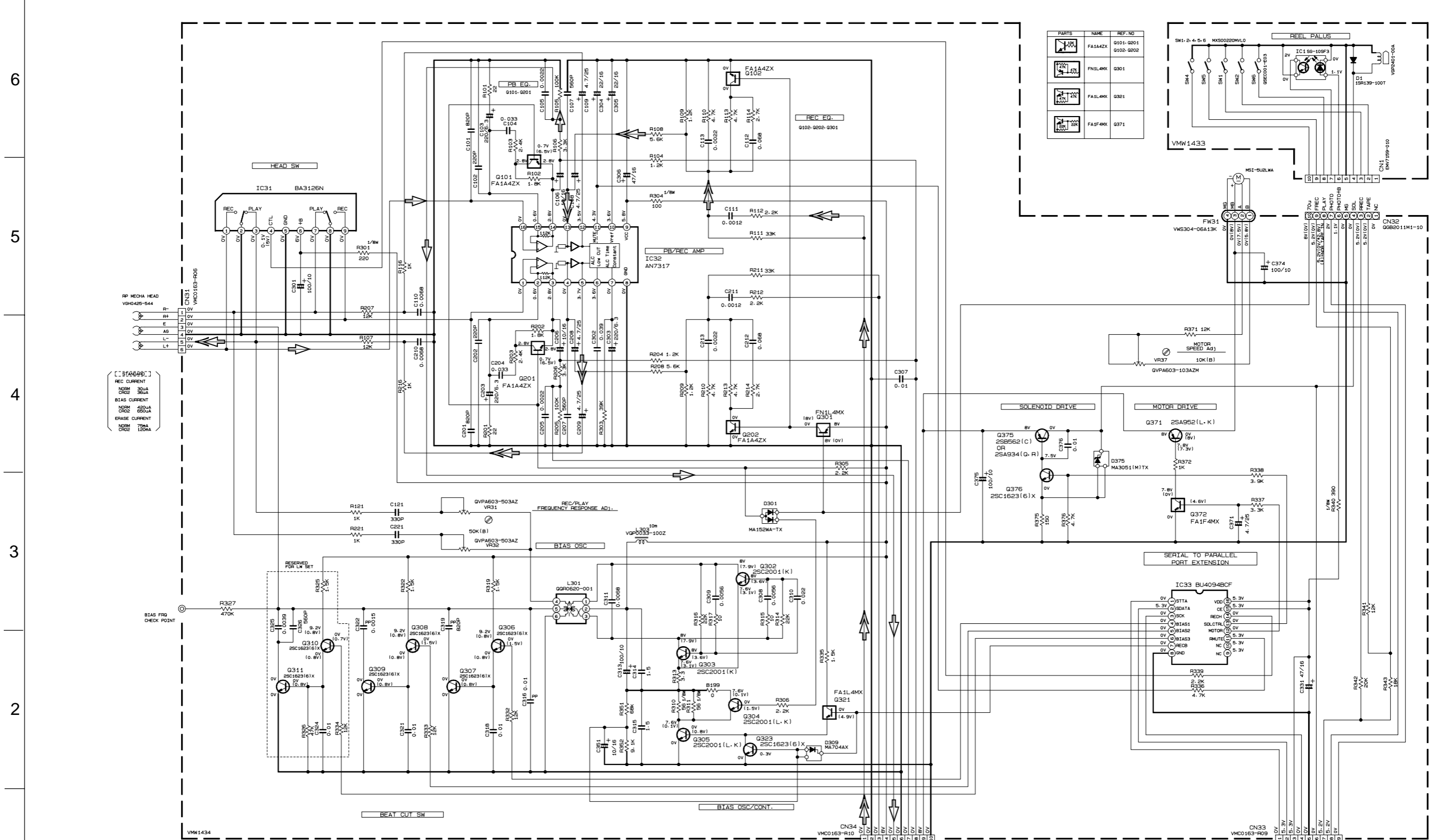


- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
  2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN Ω(M). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN #F(P=pF). ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).

MODEL  
CD-MATUSITA

SHEET  
1/1

Head amplifier & Mechanism control section



PARTS	NAME	REF. NO
[Symbol]	FA1A4ZX	Q101-Q201
[Symbol]	FN1L4MX	Q301
[Symbol]	FA1L4MX	Q321
[Symbol]	FA1F4MX	Q371

- [Symbol] NORM 300A
- [Symbol] CR02 200A
- [Symbol] BIAS CURRENT
- [Symbol] NORM 400A
- [Symbol] CR02 650A
- [Symbol] ERASE CURRENT
- [Symbol] NORM 700A
- [Symbol] CR02 1200A

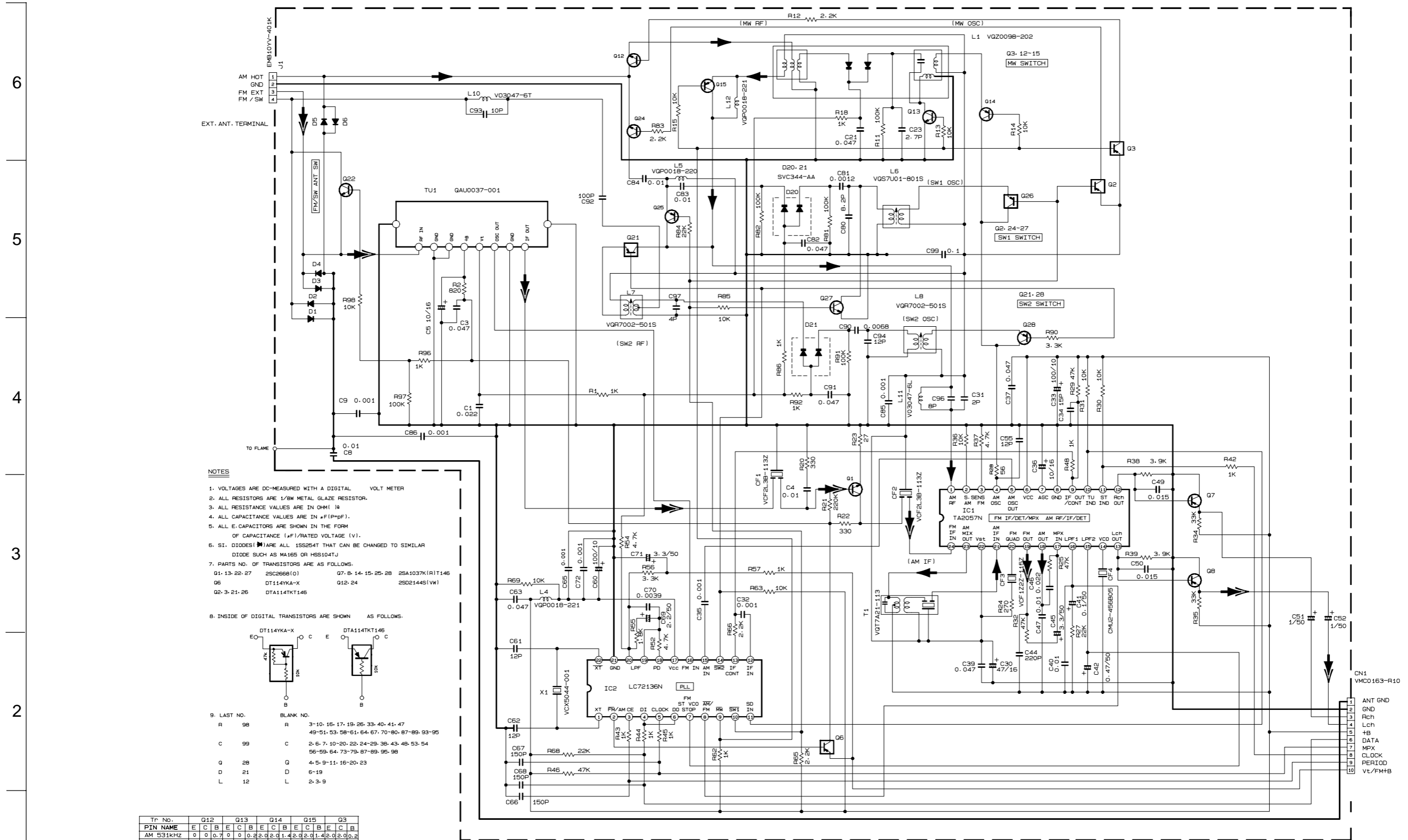
NOTES

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 nF(nPpF).
- ALL INDUCTANCE VALUES ARE IN mH(mHppH).
- ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
- POLYPROPYLENE CAPACITOR

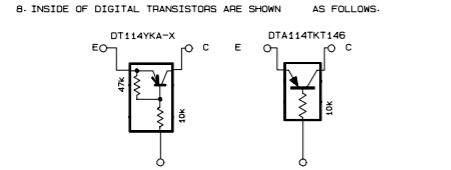
▶ PLAYBACK SIGNAL  
 ⇨ RECORDING SIGNAL

A B C D E F G H I

■ Tuner section



- NOTES**
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
  - ALL RESISTORS ARE 1/8W METAL GLAZE RESISTOR.
  - 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).
  - SI. DIODES (D) ARE ALL 1S5254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104TJ
  - PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.  
 Q1-13-22-27 2SC2668(O)    Q7-8-14-15-25-28 2SA1037K(R1T146)  
 Q6 DT114YKA-X    Q12-24 2SD2144S(VW)  
 Q2-3-21-25 DTA114TKT146
  - INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



9. LAST NO.      BLANK NO.

Tr No.	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
R	98			3-10-16-17-19-26-33-40-41-47				
C	99			2-6-7-10-20-22-24-29-38-43-48-53-54				
D	28			4-5-9-11-15-20-23				
Q	21			6-19				
L	12			2-3-9				

Tr No.	Q12	Q13	Q14	Q15	Q3
PIN NAME	E C B	E C B	E C B	E C B	E C B
AM 531KHZ	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
SW 2.3MHz	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0

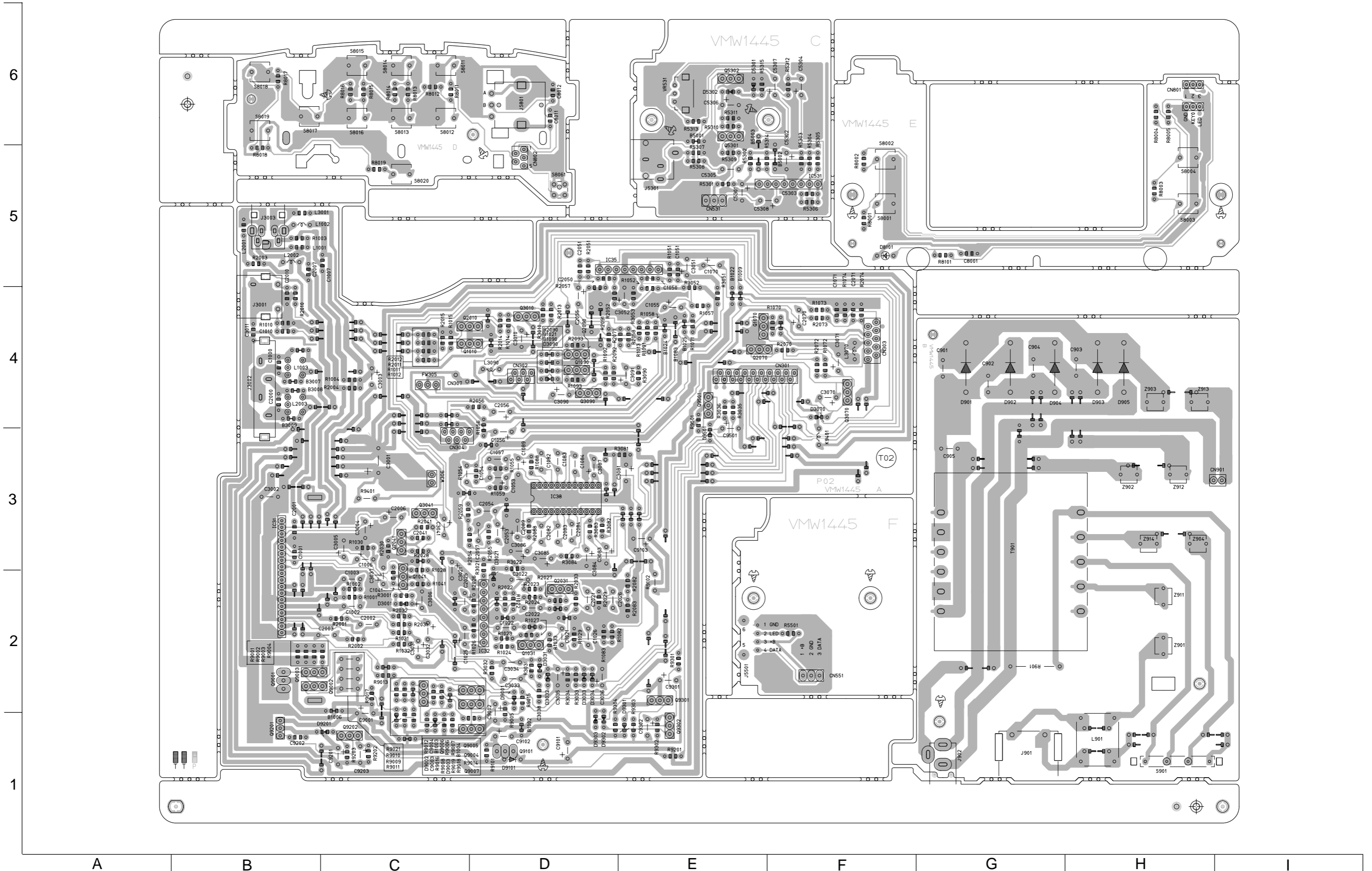
Tr No.	Q1	Q6	Q22	Q7	Q8
PIN NAME	E C B	E C B	E C B	E C B	E C B
FM 87.5MHz	0 7 5	0 7 8	0 8 8	0 0 0	0 7 1
AM 531KHZ	0 0 0	0 8 8	0 8 7	0 0 0	0 1 6

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
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
IC1	FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
IC2	FM NO SIGNAL	2.4	0	0	1.1	5.0	1.1	3.7	3.7	4.5	4.3	5.1	0	0	5.1	0	2.6	5.1	1.0	1.0	3.7	0	2.7		

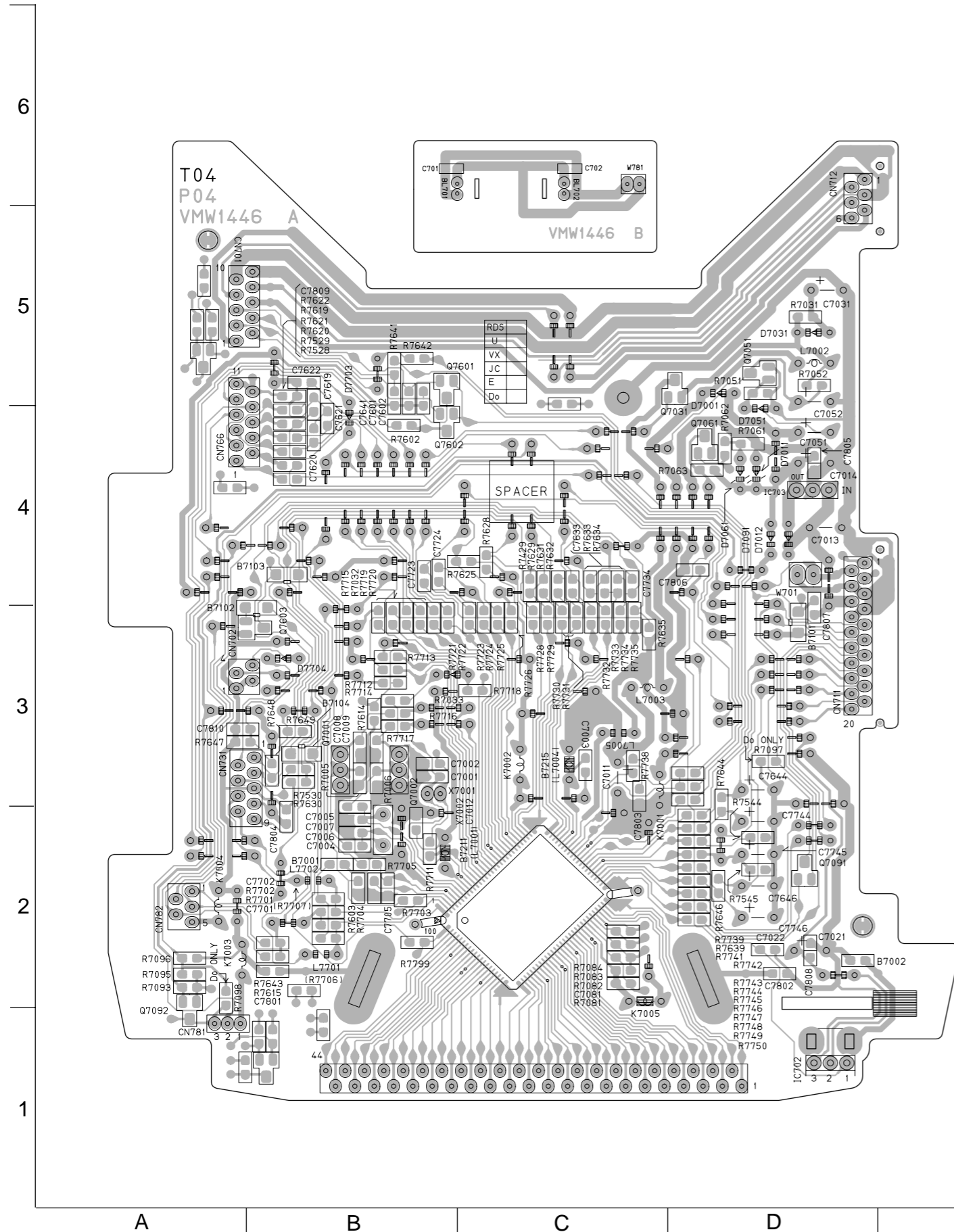
➔➔➔ FM RADIO/TUNER SIGNAL  
 ➔➔➔ AM RADIO SIGNAL

# Printed circuit boards

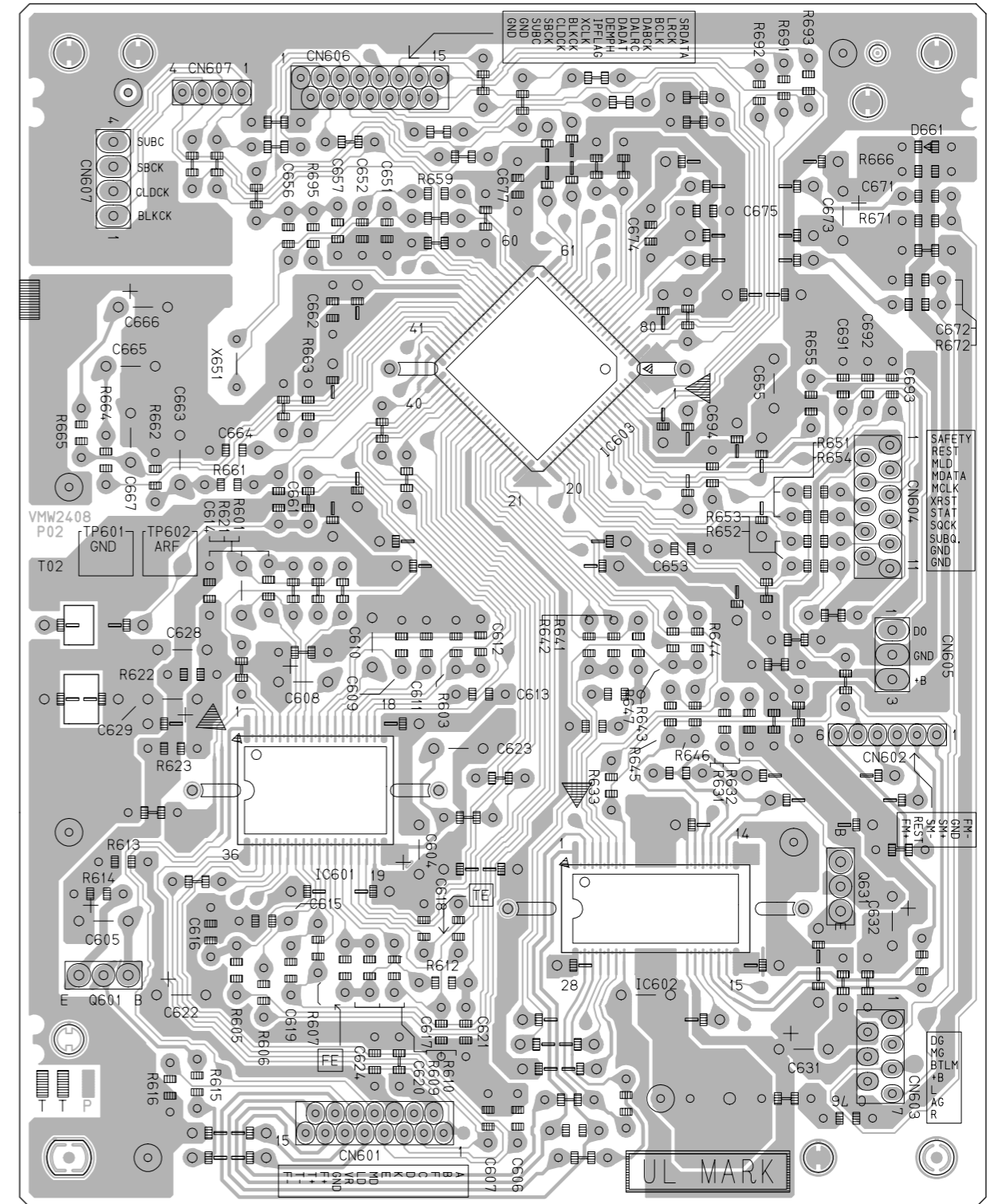
■ Main board



■ LCD system & CPU board

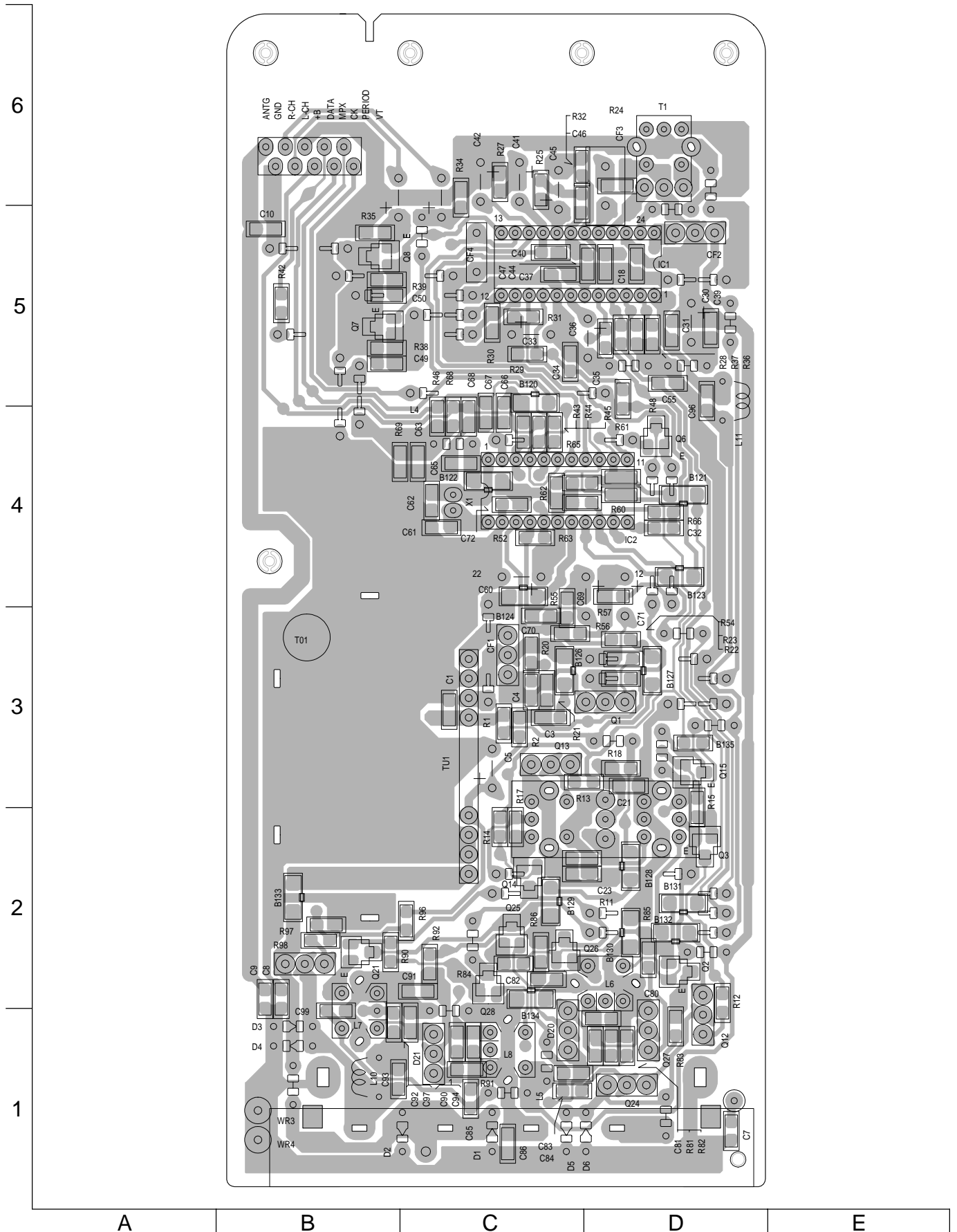


■ CD servo control board

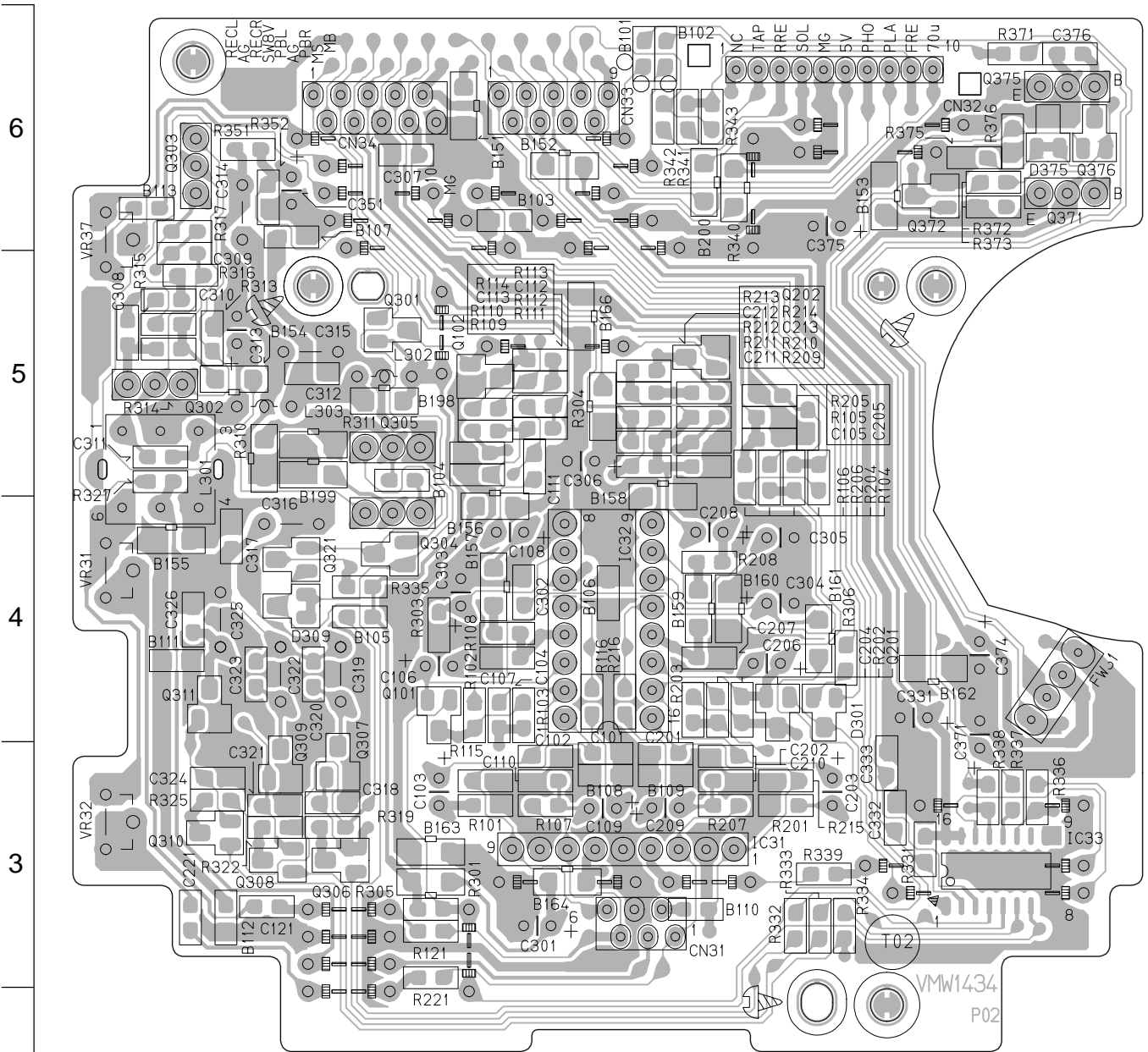




■ Tuner board



■ Head amplifier & Mechanism control board



■ Cassette switch board

