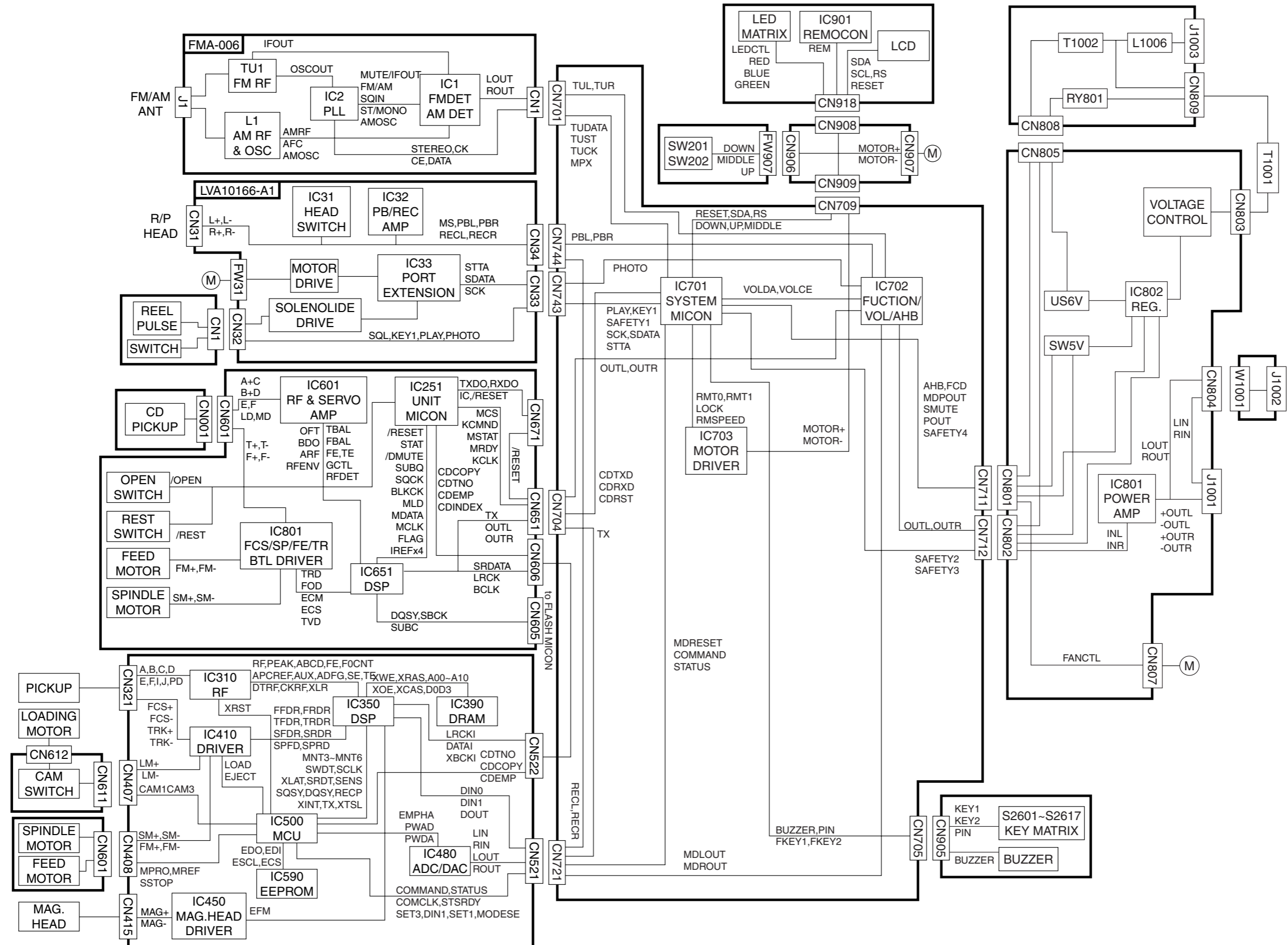


Block diagram



Standard schematic diagrams

■ Main & control circuit

6

5

4

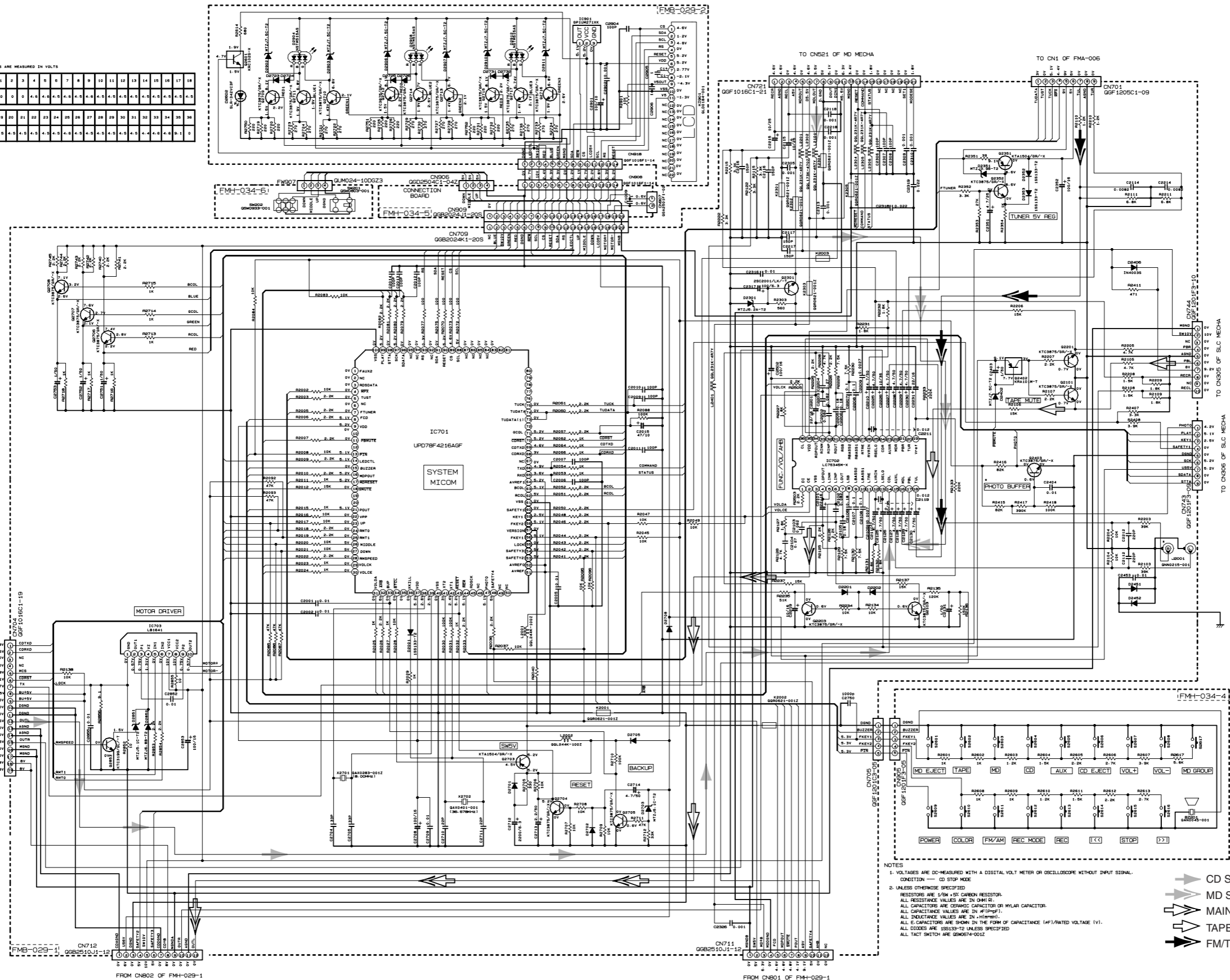
3

2

1

ALL VALUES ARE MEASURED IN VOLTS

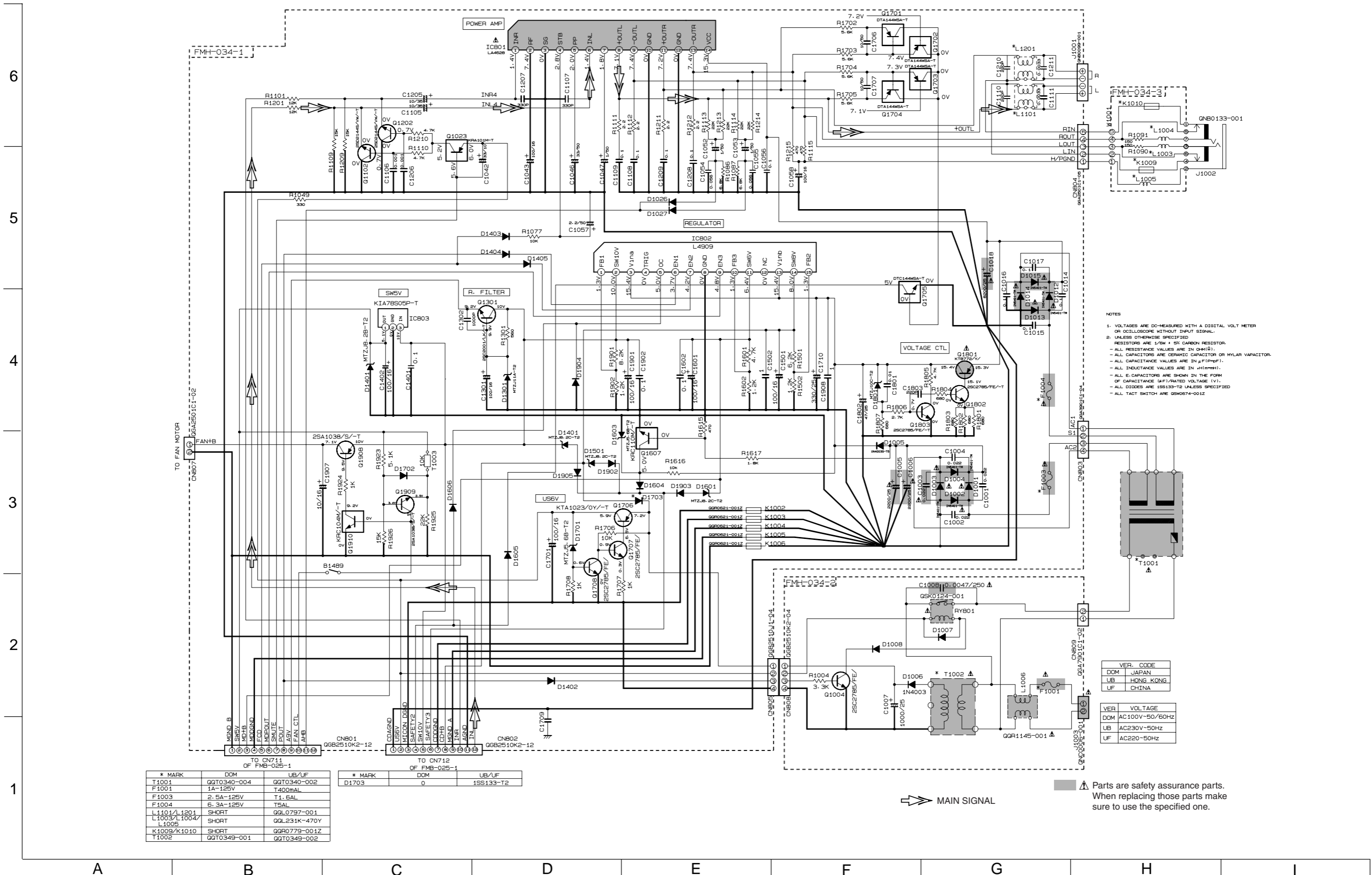
IC700	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IC700	0	0	0	4.8	4.1	4.5	4.8	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
IC702	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
IC702	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.6	4.6	4.6	0



- 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 1/8W ± 5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN PICO (pF).
ALL INDUCTANCE VALUES ARE IN MILLI (mH).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS133-12 UNLESS SPECIFIED.
ALL TACT SWITCHES ARE SMD74-001.
- ➡ CD SIGNAL
 - ➡ MD SIGNAL
 - ➡ MAIN SIGNAL
 - ➡ TAPE P. B. SIGNAL
 - ➡ FM/TUNER SIGNAL

A B C D E F G H I

Power amplifier & Power supply circuit



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
 2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ± 5% CARBON RESISTOR.
 - ALL RESISTANCE VALUES ARE IN OHMS.
 - ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR VAPACITOR.
 - ALL CAPACITANCE VALUES ARE IN μF (μ=10⁻⁶).
 - ALL INDUCTANCE VALUES ARE IN mH (m=10⁻³).
 - ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)-RATED VOLTAGE (V).
 - ALL DIODES ARE 1SS133-T2 UNLESS SPECIFIED
 - ALL TACT SWITCH ARE GSK0674-001Z

* MARK	DOM	UB/UF
T1001	QG0340-004	QG0340-002
F1001	1A-125V	T400mAL
F1003	2.5A-125V	T1.6AL
F1004	6.3A-125V	T5AL
L1101/L1201	SHORT	QGL0797-001
L1003/L1004	SHORT	QGL231K-470Y
L1005	SHORT	QGL0779-001Z
K1009/K1010	SHORT	QGT0349-001
T1002	QG0349-001	QG0349-002

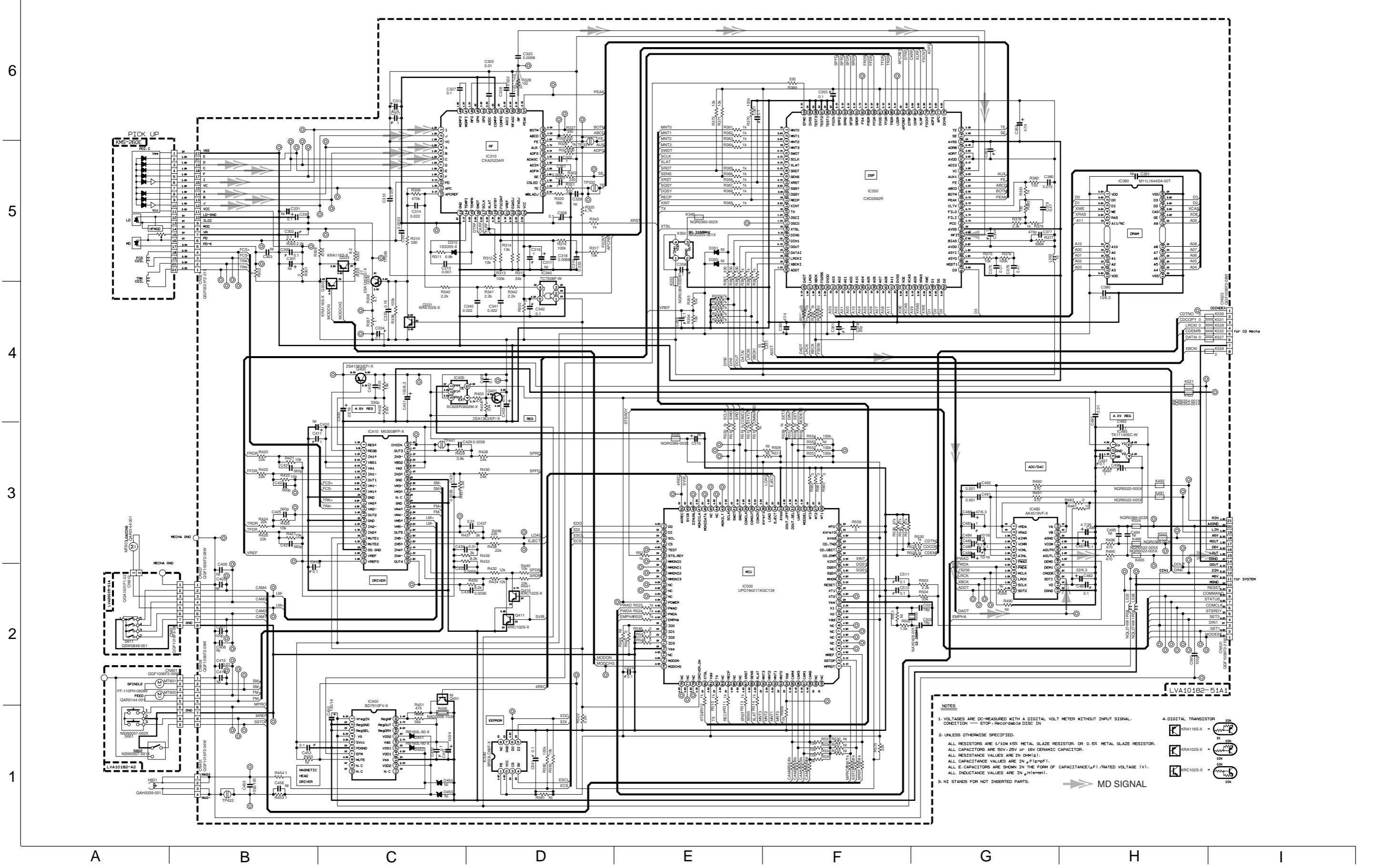
* MARK	DOM	UB/UF
D1703	0	1SS133-T2

VER. CODE	
DOM	JAPAN
UB	HONG KONG
UF	CHINA

VER.	VOLTAGE
DOM	AC100V-50/60HZ
UB	AC230V-50HZ
UF	AC220-50HZ

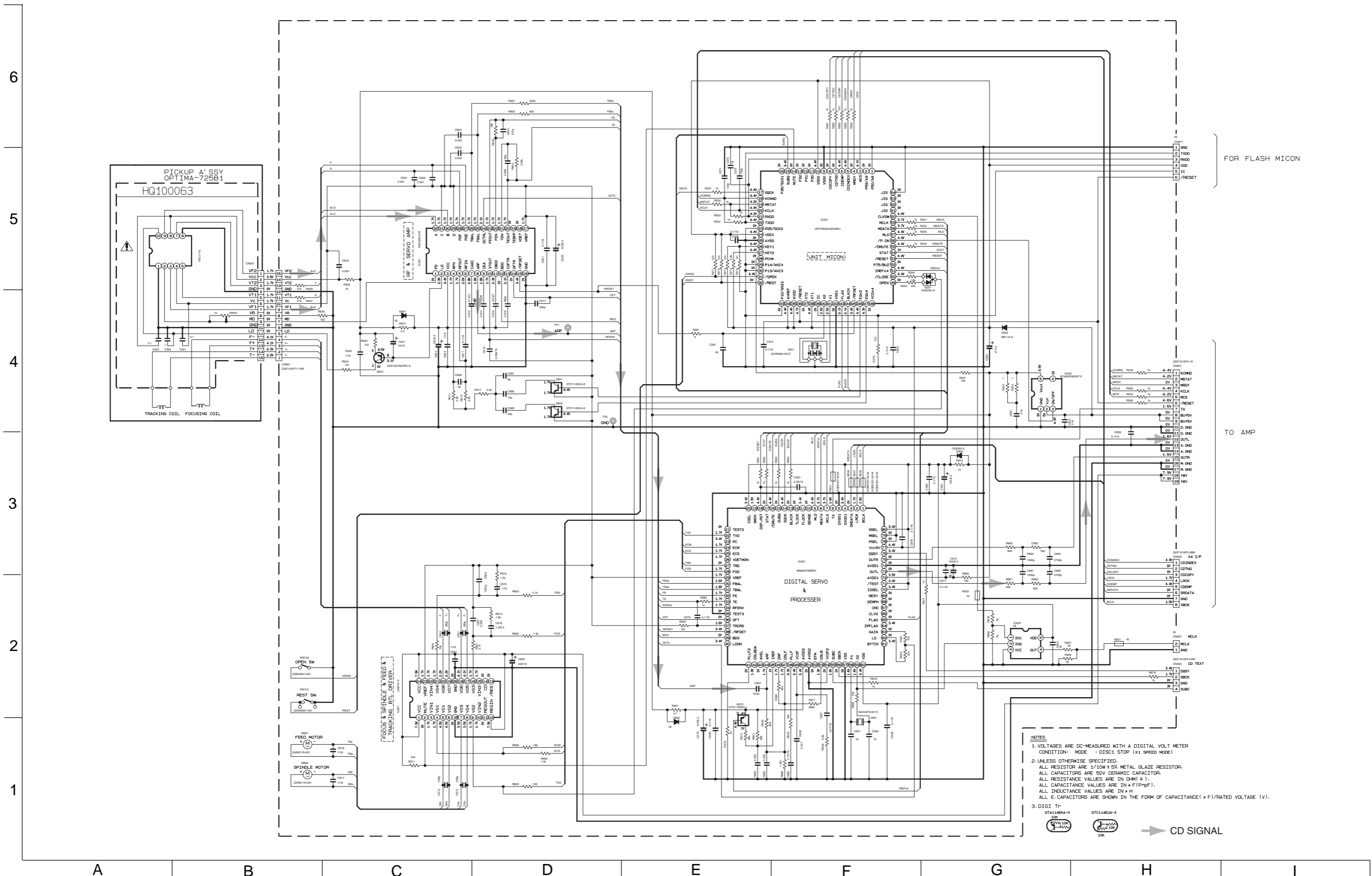
Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

MD control circuit



- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION --- STOP, Recor-On to DISC IN
 2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. OR 0.5X METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V, 25V or 16V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN Ω(MΩ).
ALL CAPACITANCE VALUES ARE IN pF(nF).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
ALL INDUCTANCE VALUES ARE IN μH(mH).
 3. NI STANDS FOR NOT INSERTED PARTS.
 4. DIGITAL TRANSISTOR
- MD SIGNAL

CD control circuit



FOR FLASH MICON

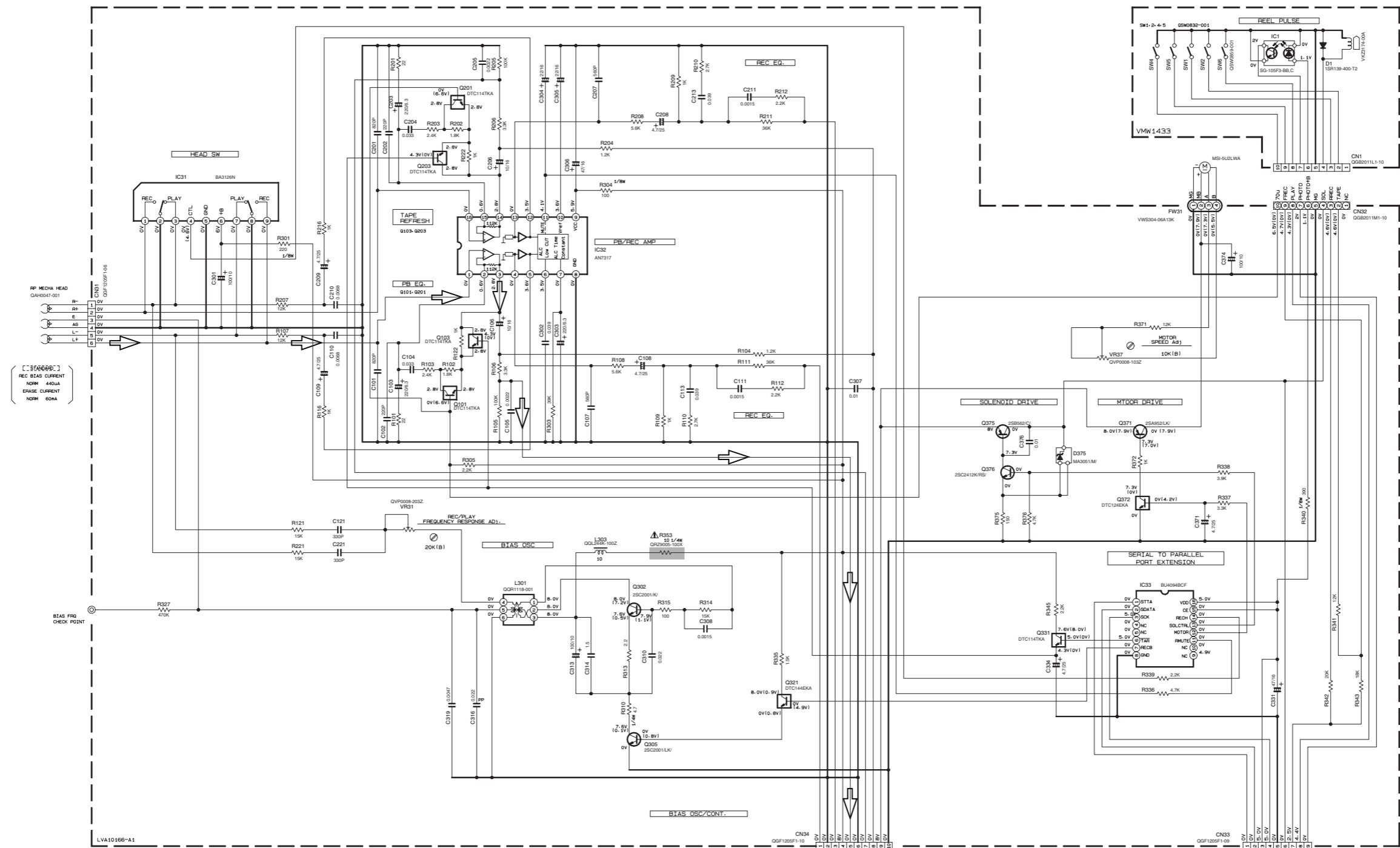
TO AMP

- NOTES**
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
CONDITION: MODE = DISC1 STOP (x1 SPEED MODE)
 2. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/10W ± 5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITANCE VALUES ARE IN PICO (pF).
ALL INDUCTANCE VALUES ARE IN μH
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
 3. DIGIT TR



CD SIGNAL

■ Cassette 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).
- 3. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN nF(n=10⁻⁹).
- 4. ALL INDUCTANCE VALUES ARE IN mH(m=10⁻³).
- 5. ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#1/RATED VOLTAGE (V)).
- 6. POLYPROPYLENE CAPACITOR

TO CN744
OF FMH-025-1
SHEET 5/7

PARTS	NAME	REF. NO
FA142	DTC114TKA	Q101-Q103
FA144	DTC144EKA	Q301
FA145	DTC144EKA	Q372

➔ TAPE P. B. SIGNAL

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

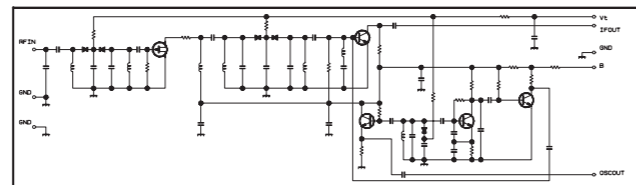
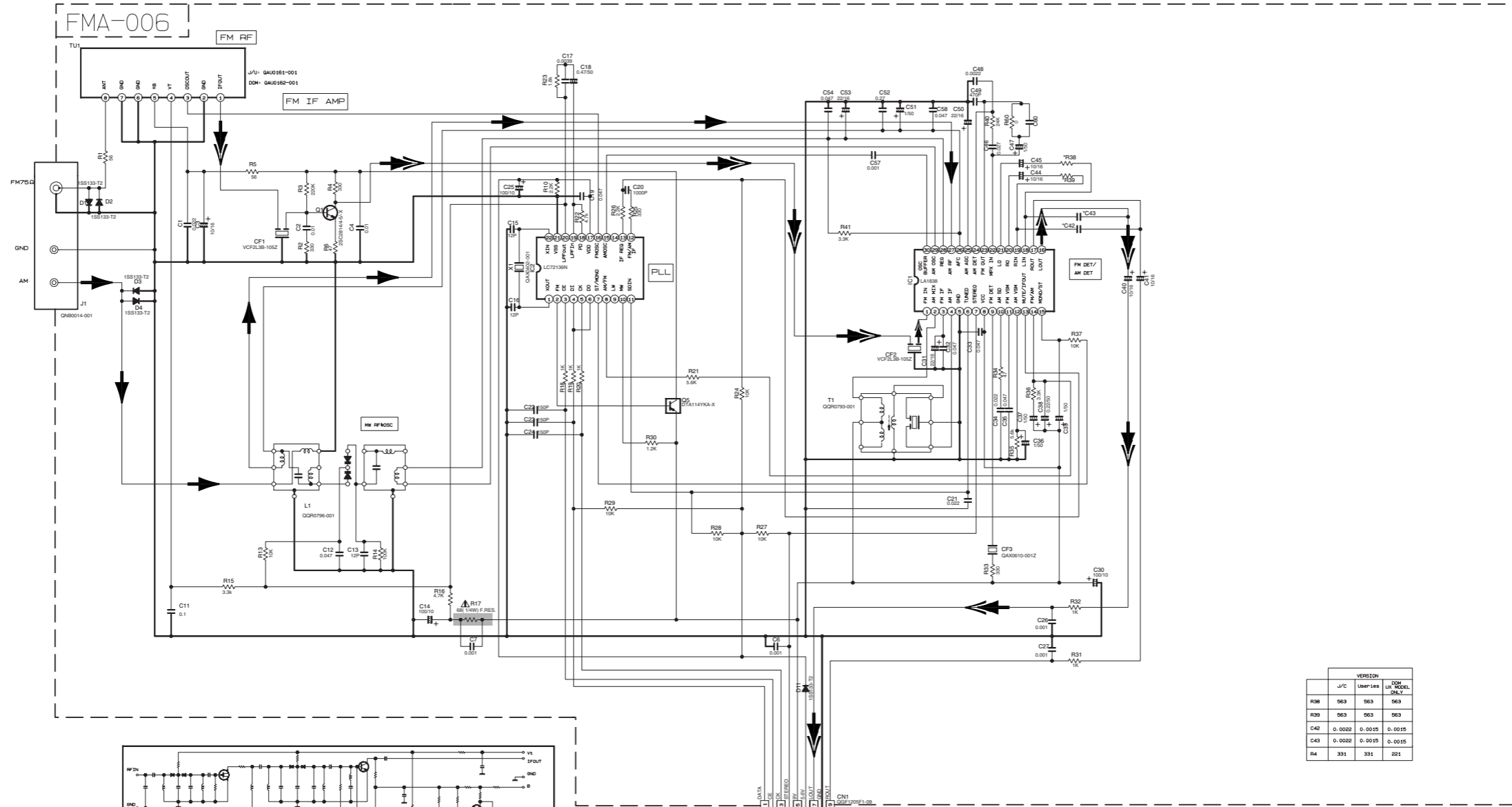
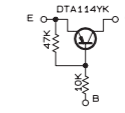
SHEET 4/7

■ Tuner circuit

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPACITANCE VALUES ARE IN pF(pF).
5. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
6. SI DIODES (D) ARE ALL 1SS133-T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA166 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS:
 Q1 2SC2814/4-S/-X Q2-Q3 2SC2412K/R/-X
 Q4-Q5 DTA114YA-X

8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS:

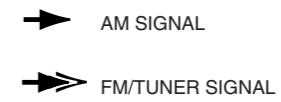


CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1 FM NO SIGNAL		3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	0.1	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.5	3.5	3.6	3.6	2.7
IC1 FM 60dB STEREO		3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	4.3	0	0.9	7.8	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
IC1 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	2.7	
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	3.8	0	2.3								

TP NO.	Q1	Q5				
PIN NO.	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	7.1	0.85	8.9	8.9	0
AM 520kHz NO SIGNAL	0	0	0	9.0	0	8.9

TP NO.	Q2	Q3	Q4			
PIN NO.	E	C	B	E	C	B
AM 520kHz NO SIGNAL	0	0	0.7	0	0	0.7
AM 1440Hz NO SIGNAL	0	0	0.3	0	0.3	0.3

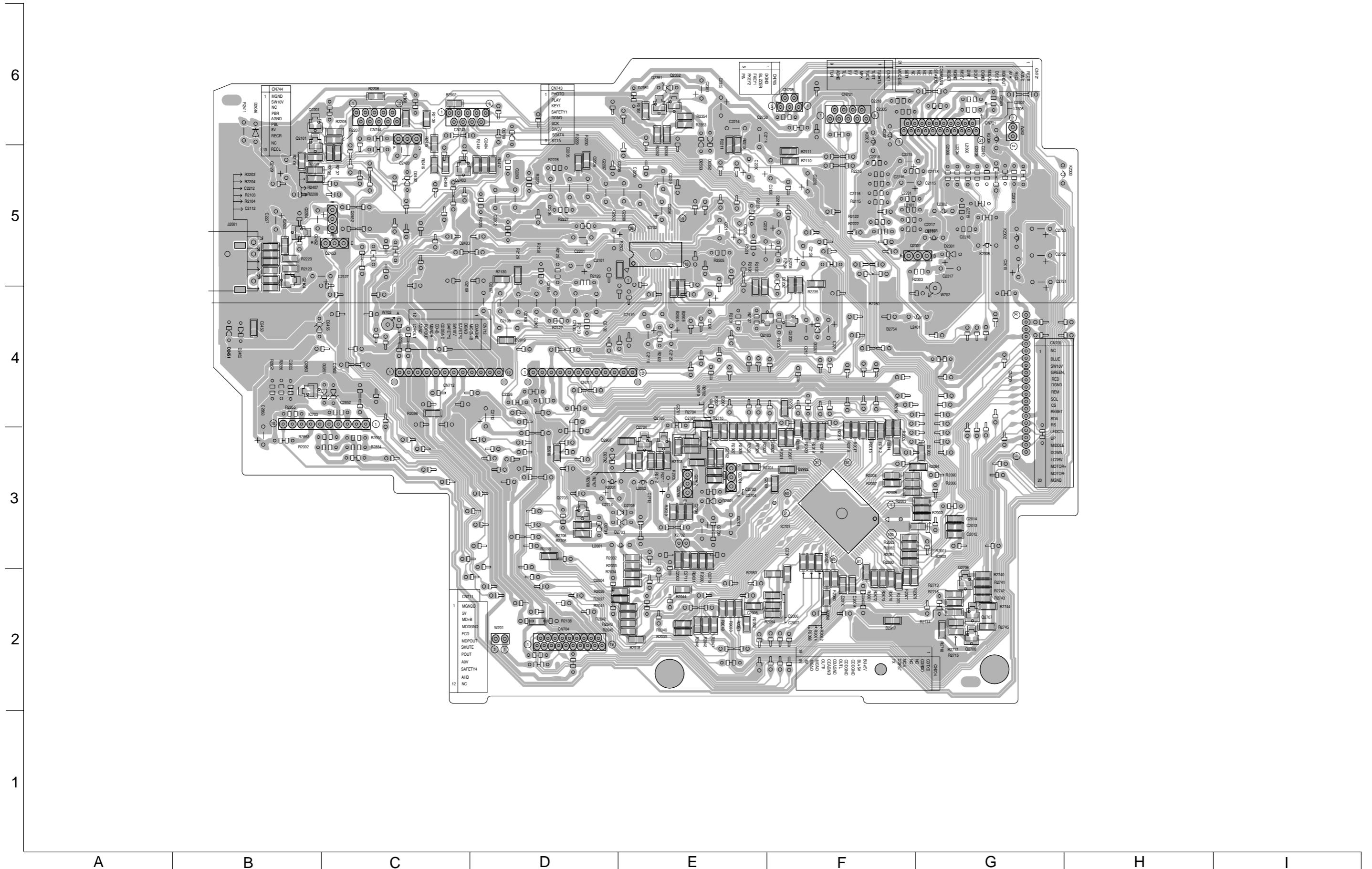
VERSION	J/C		
	Use1es	USE MODEL	USE MODEL
R38	563	563	563
R39	563	563	563
C42	0.0022	0.0015	0.0015
C43	0.0022	0.0015	0.0015
R4	331	331	331



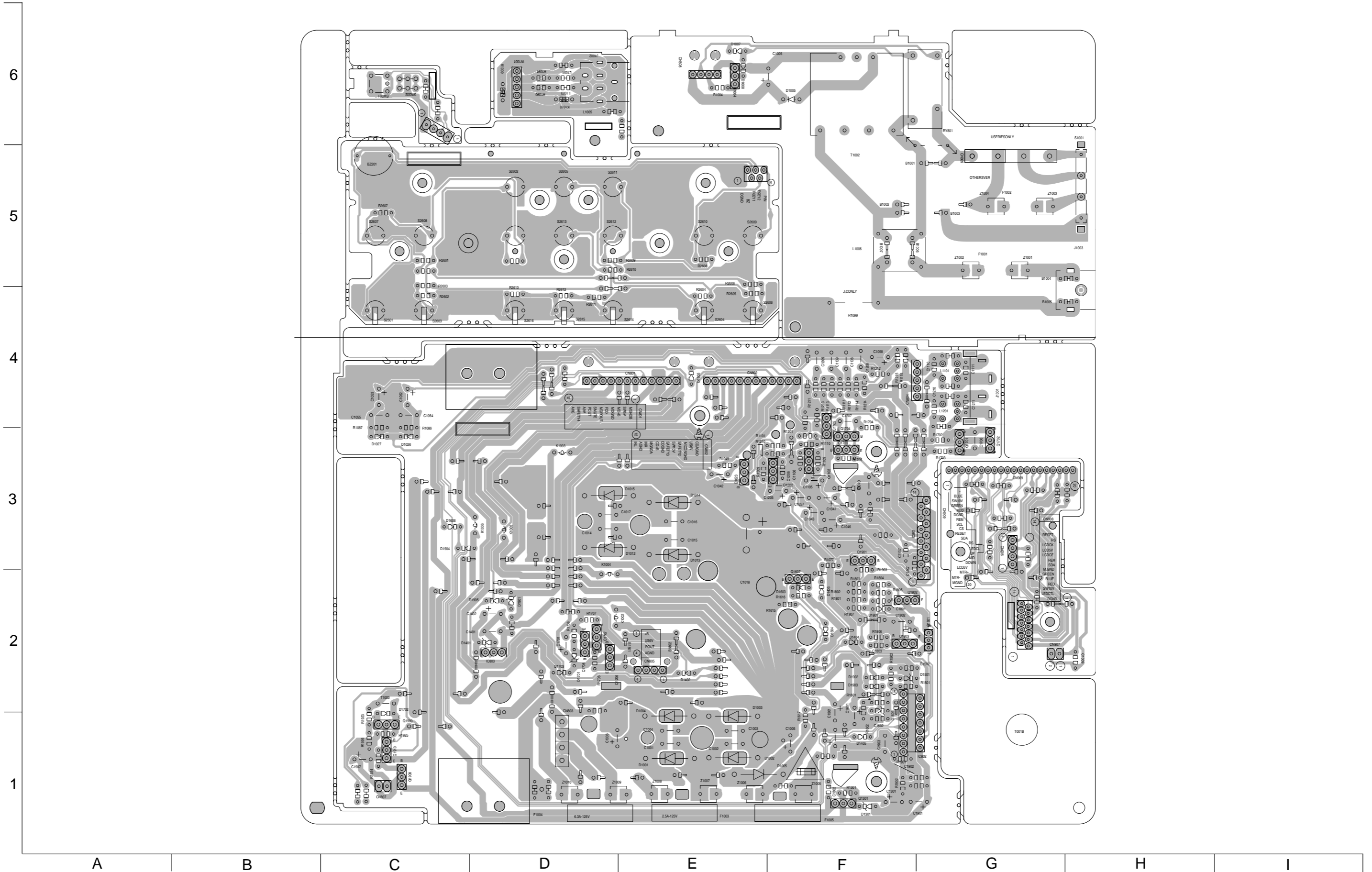
▲ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Printed circuit boards

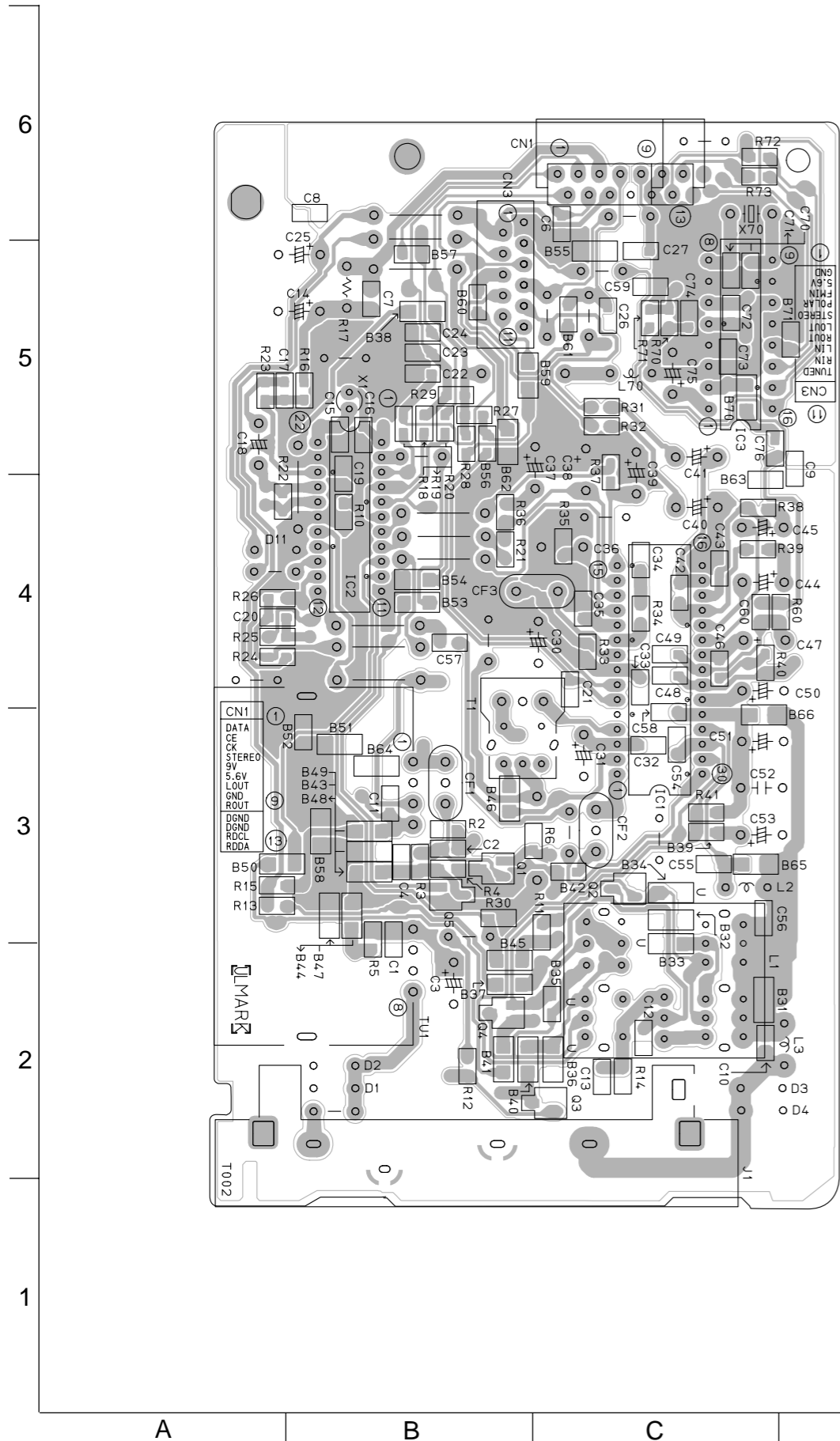
■ Main board Block No. 01



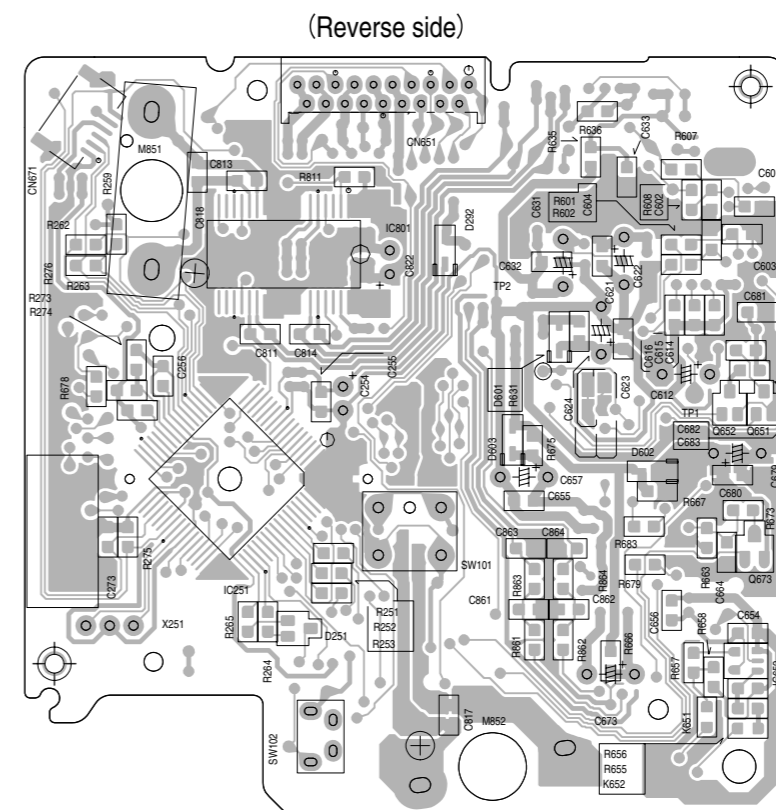
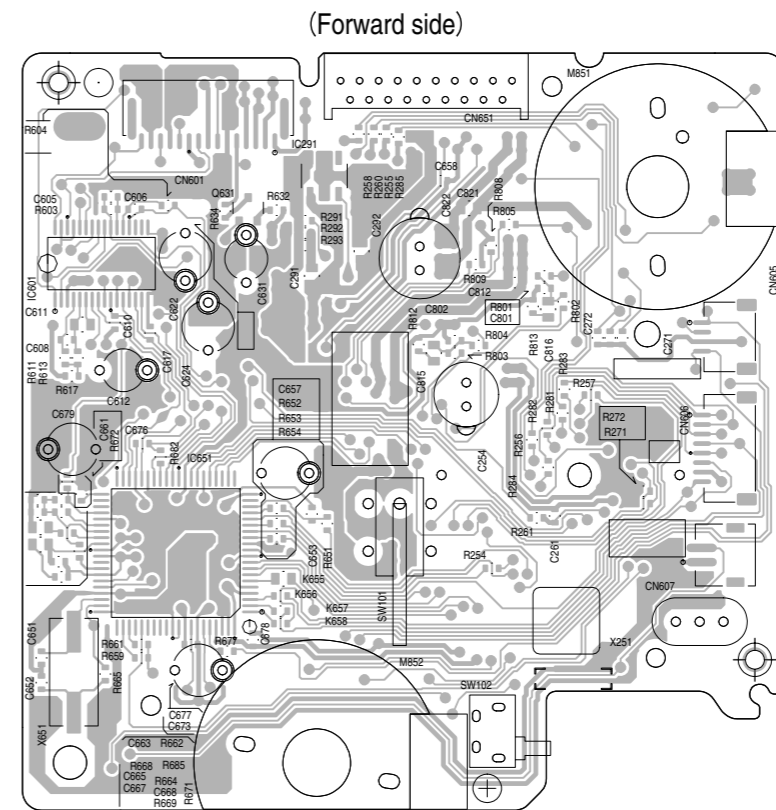
■ Power amplifier & control & AC jack board **Block No. 02**



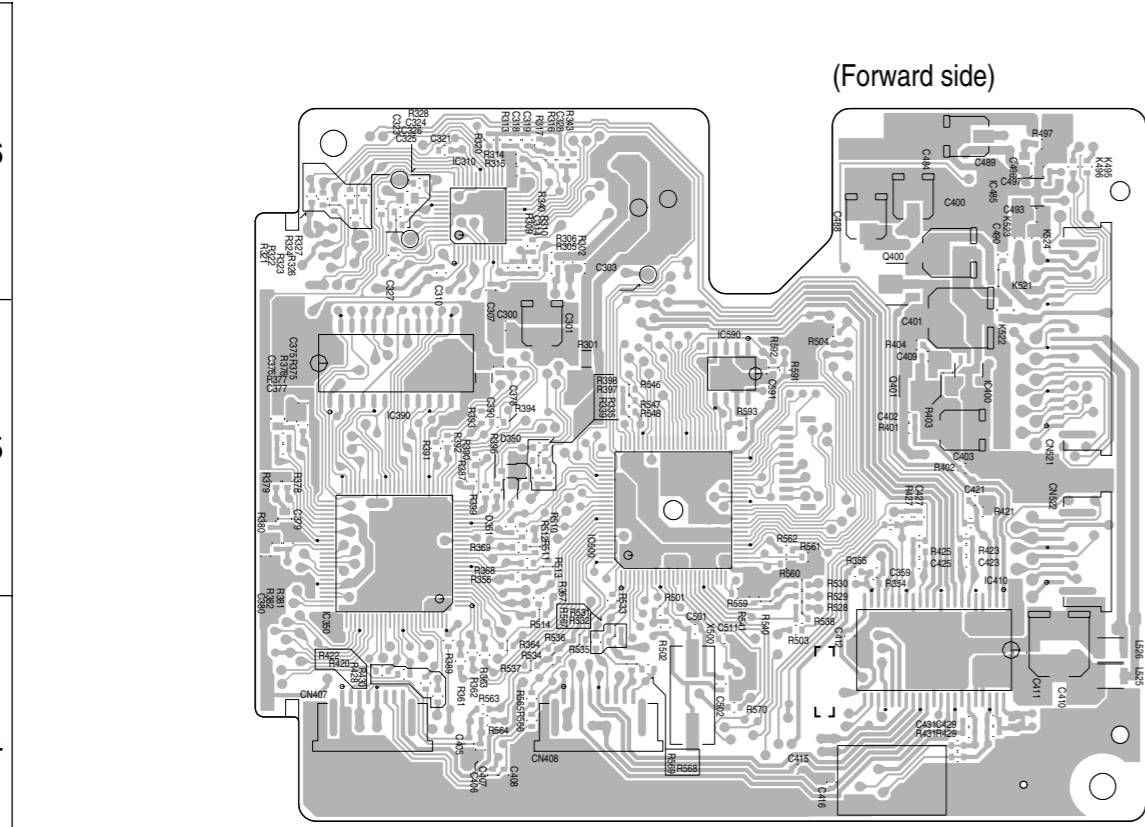
■ Tuner board Block No. 03



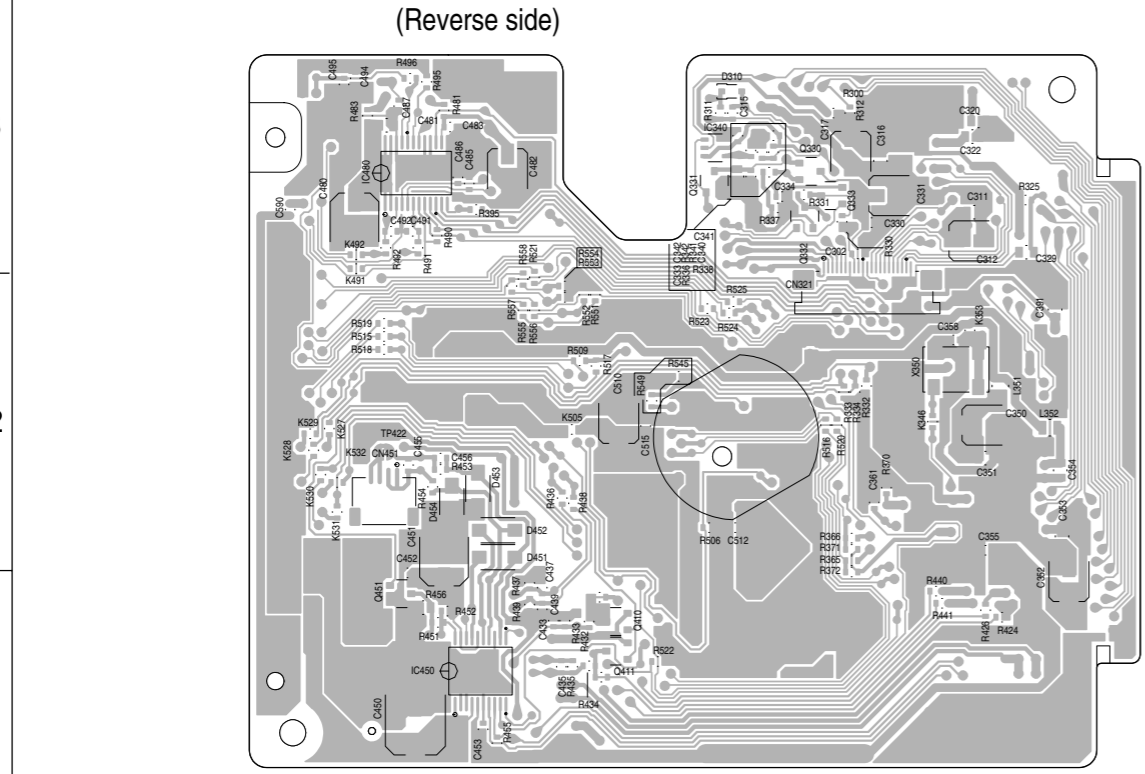
■ CD servo control board Block No. 04



■ MD servo board Block No. 05

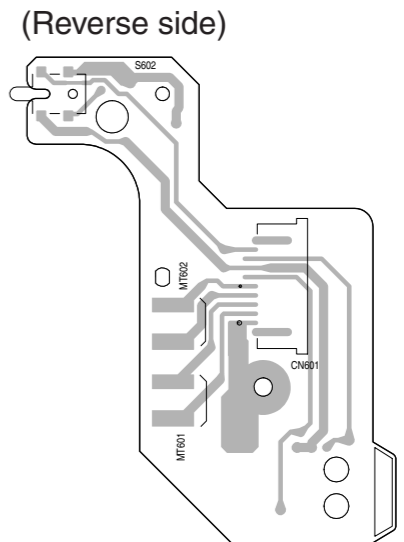
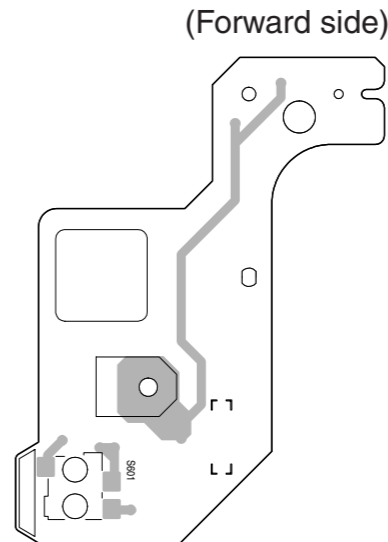


(MD servo board)

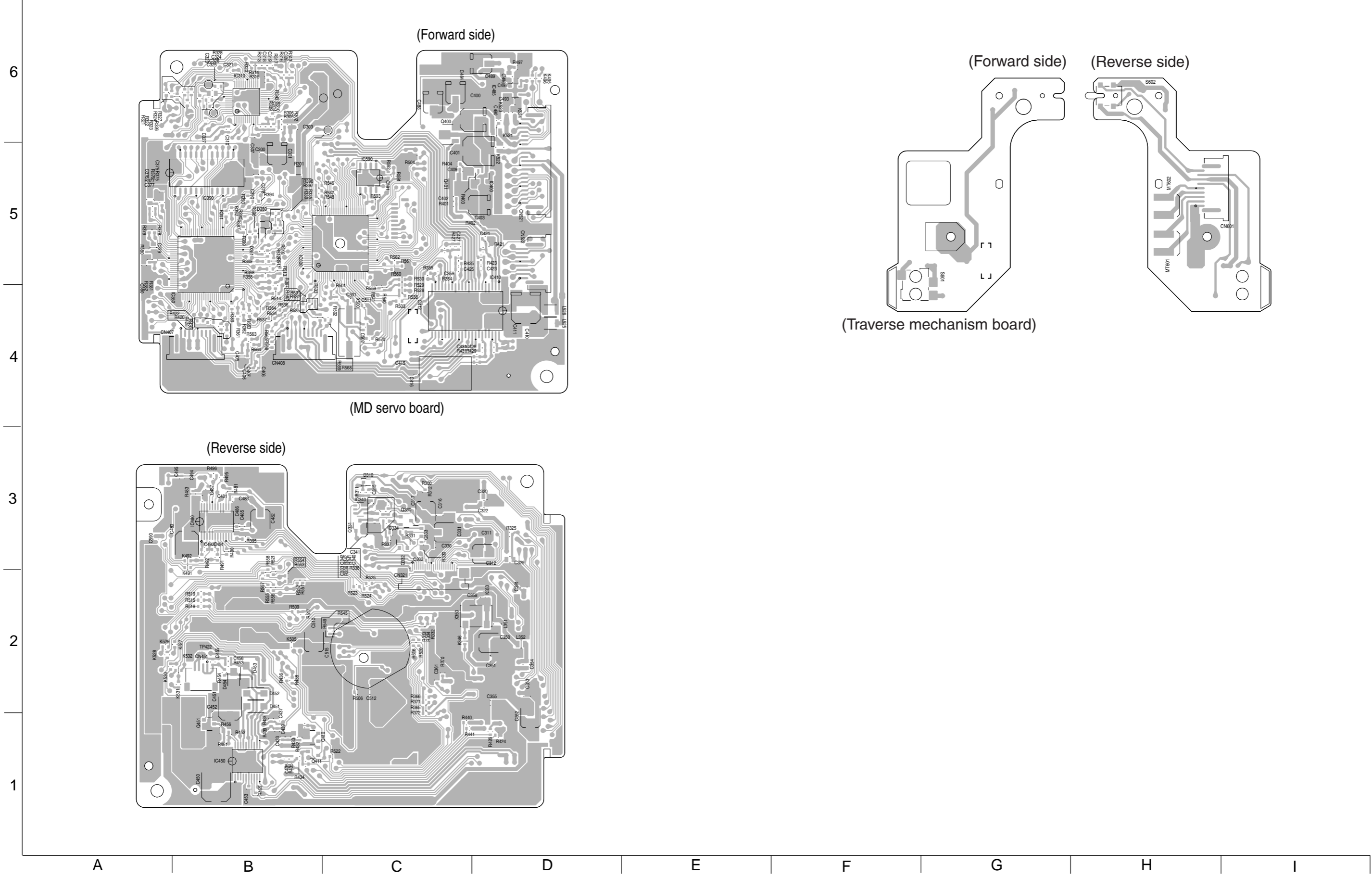


(Reverse side)

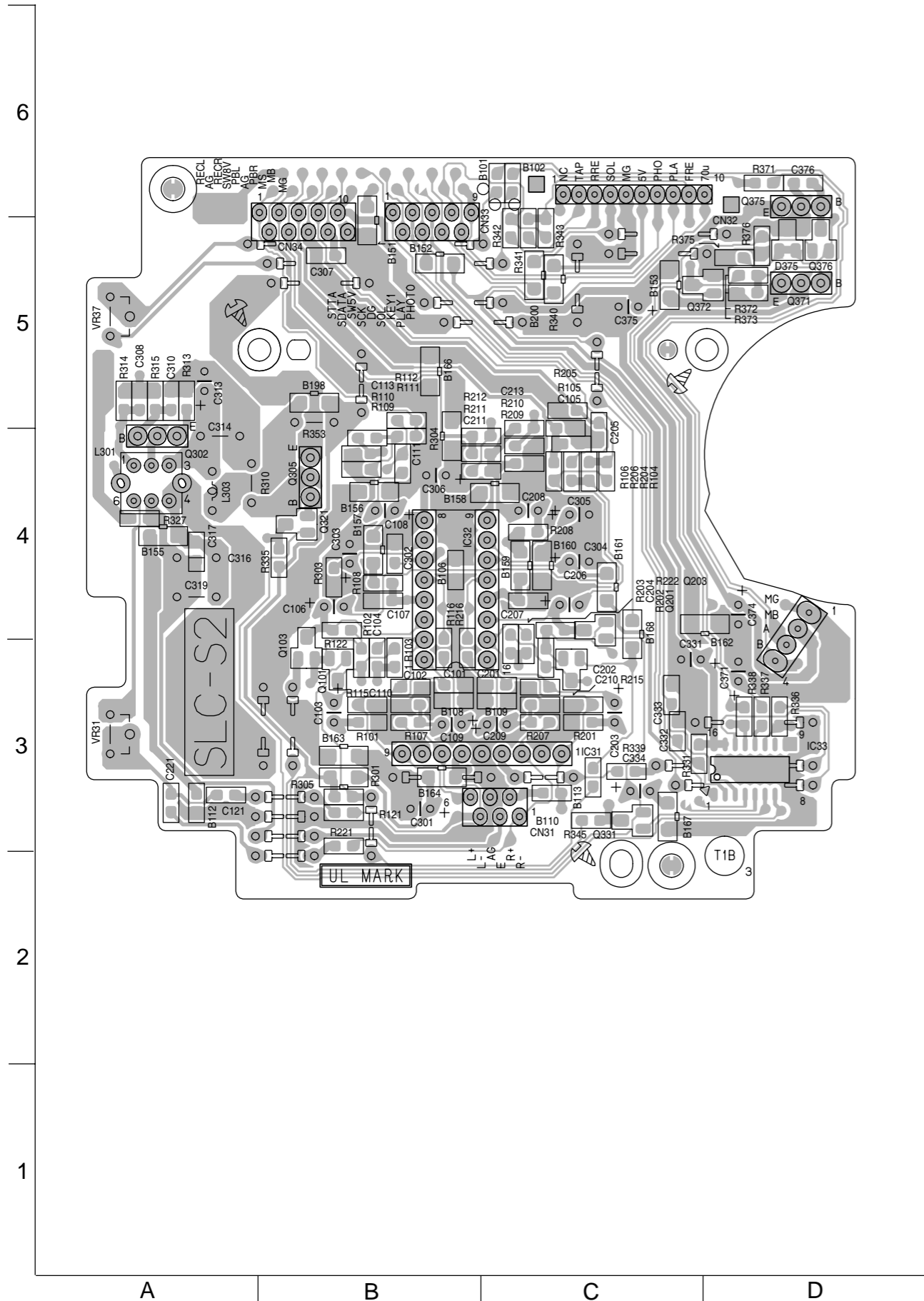
■ Traverse mechanism board Block No. 06



(Traverse mechanism board)



■ Head amplifier board Block No. 07



■ Cassette switch board Block No. 08

