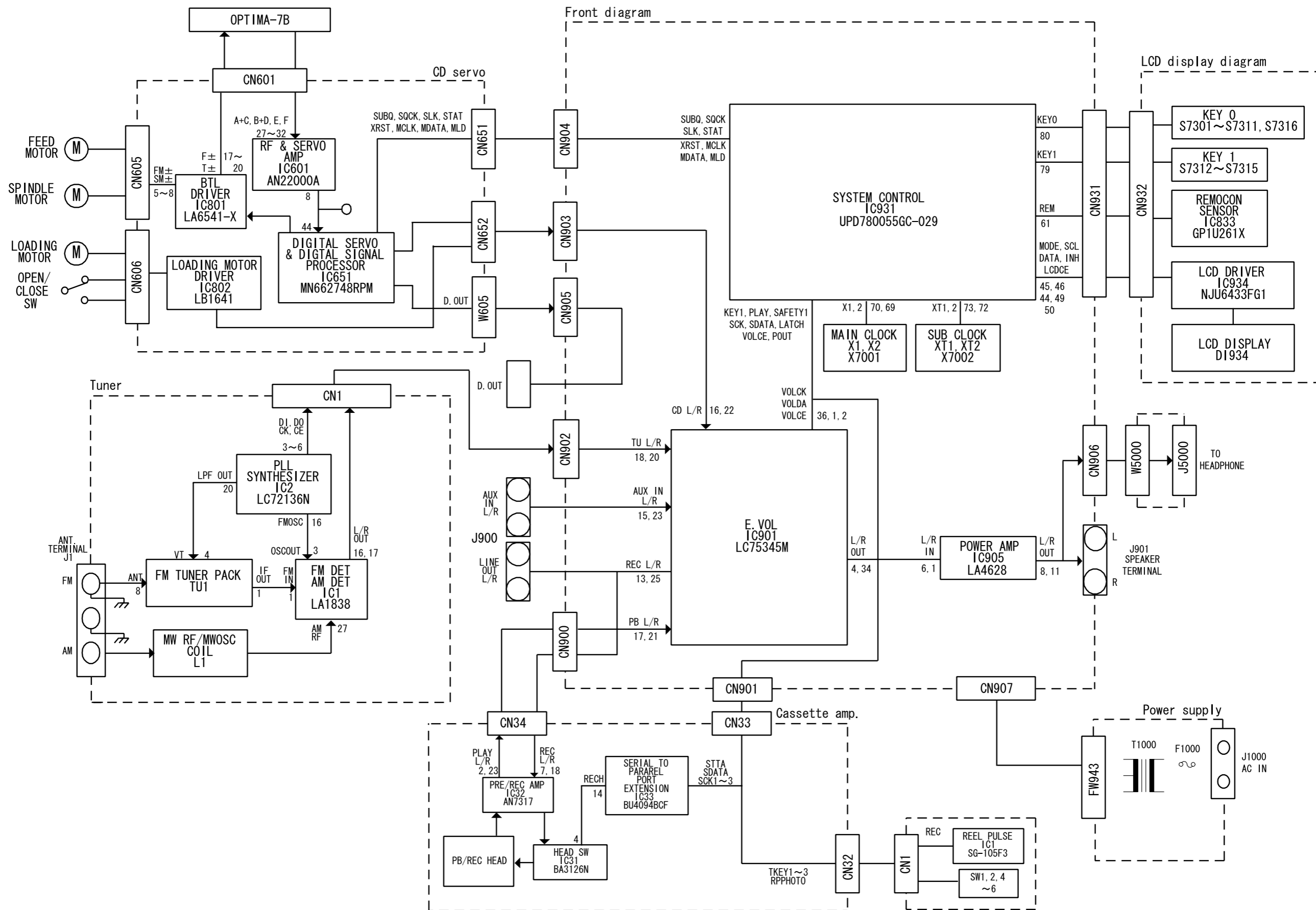


Block diagram



Standard schematic diagrams

■ Front circuit

6

5

4

3

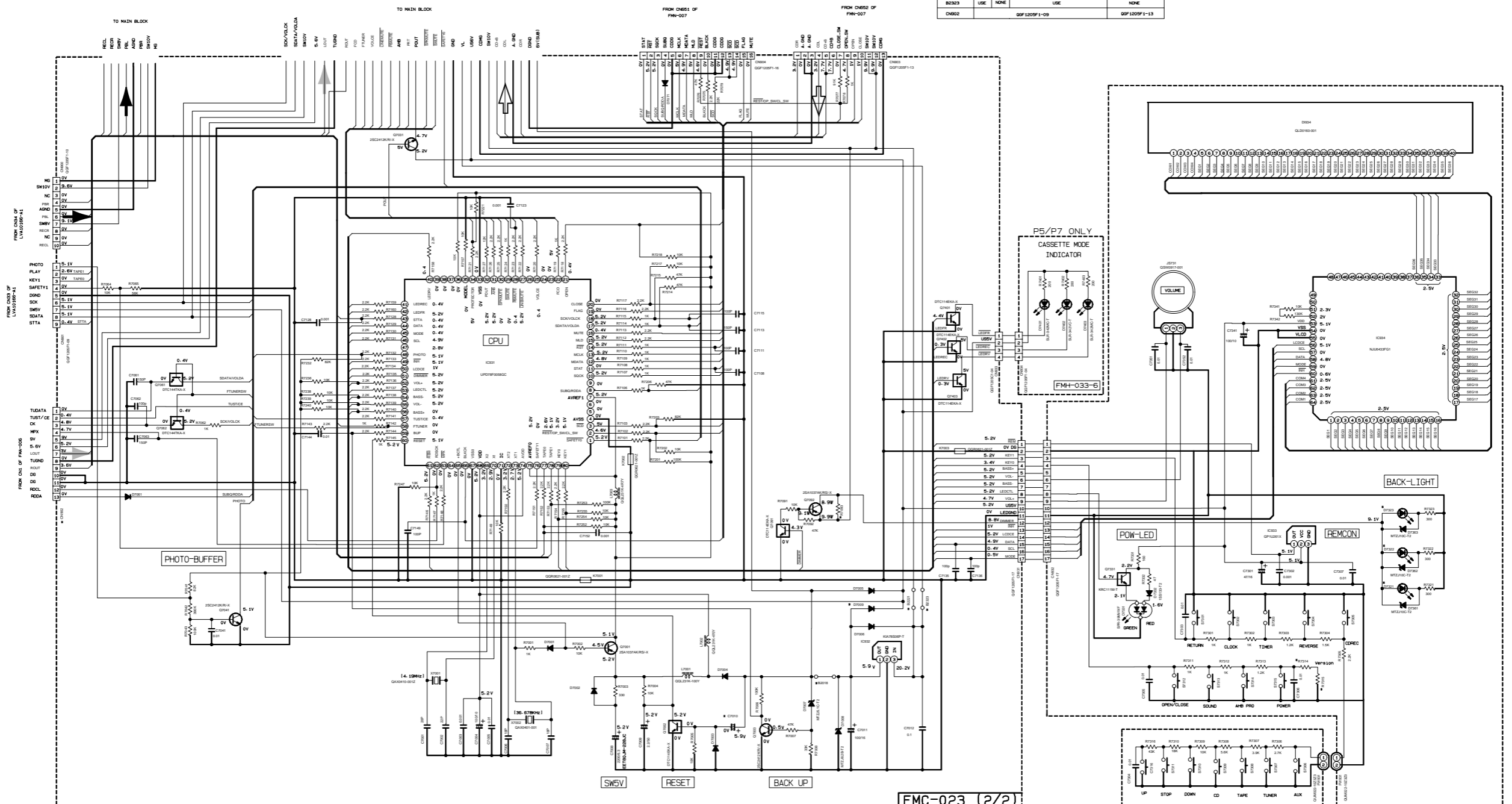
2

1

DTC144TKA-X 47K OPEN D7061/D7062	DTC144TKA-X 10K OPEN D7002	DTC144EK-X 10K OPEN D7091/D7401/D7402/D7403
---	-------------------------------------	--

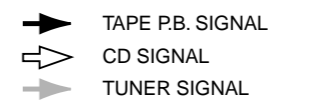
MARK

VERSION	FB-PS	UX-P5	UX-P5R
ITEMS	(L)	(A)	(E)
D7059	1K	1K	1K
D7061	BLUE	BLUE	BLUE
D7062	BLUE	BLUE	BLUE
D7071/BM	BM		D7071
R7314 (VERSION)	10K	B/W	B/W
R7315 (VERSION)	50K	47K	47K
C7010	4.7/50	10/50	10/50
D7009	NONE	USE	USE
R0018	USE	NONE	USE
R0021	NONE	USE	USE
R0023	USE	NONE	USE
C0002	GPF 120PF 1-09		GPF 120PF 1-13



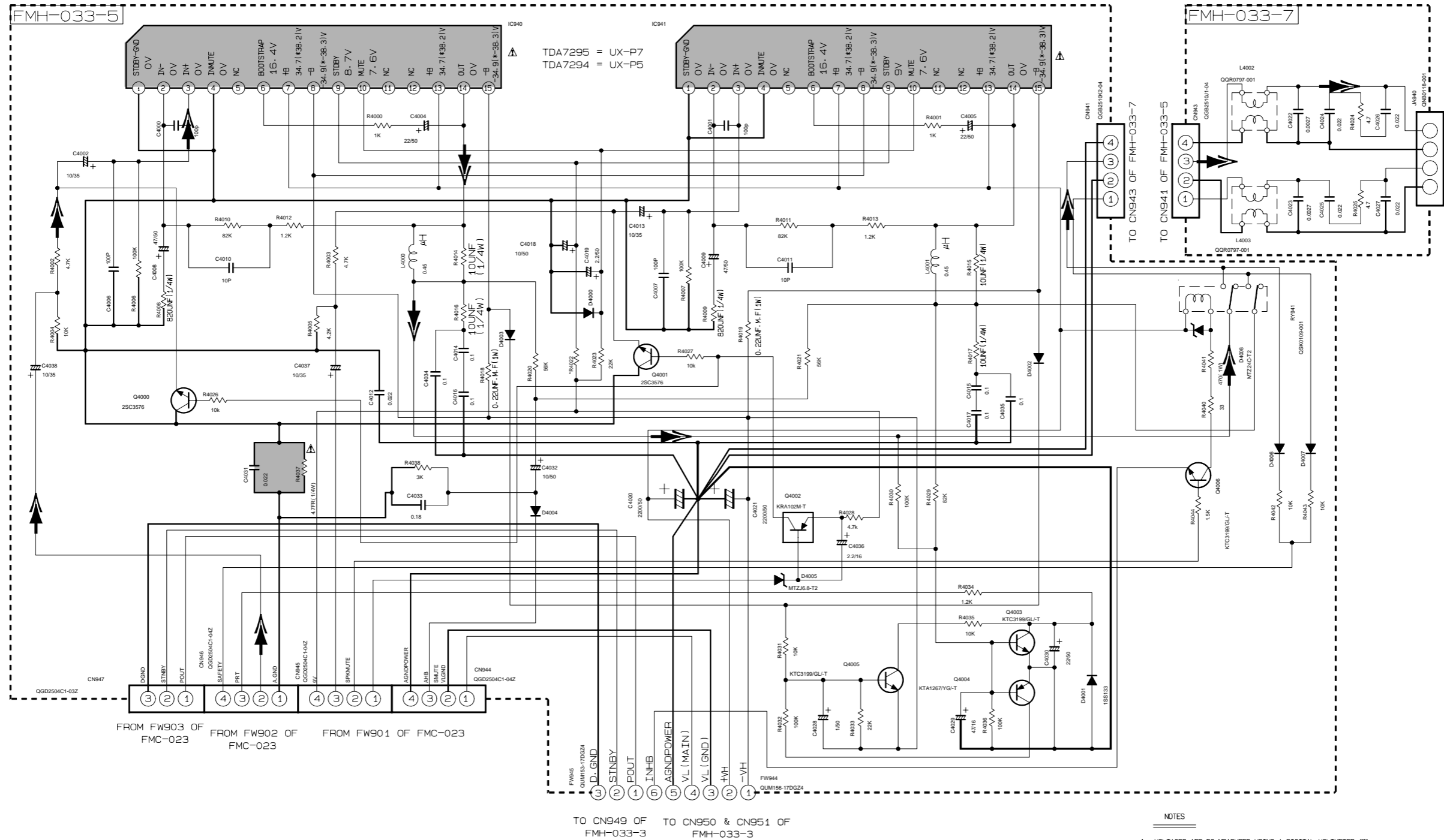
NOTES

- 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 Ω(M), K, M. ALL CAPACITANCE VALUES ARE IN nF(pF), μF. ALL INDUCTANCE VALUES ARE IN μH(mH). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V). ALL DIODES ARE IN 1SS133-T7 UNLESS SPECIFIED.



A B C D E F G H I

Subwoofer circuit



VERSION	FW945	CN947	R4022	C4034	C4035	L4002	L4003	C4022	C4023	C4024	C4025	R4024	R4025	C4026	C4027	C4014	C4015	C4016	C4017
J	X	X	10K	0	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X
UF/UN/UP/US/ UT/UW/UX/UY	X	X	1K	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B/E/EN/EV/EE/UB	0	0	1K	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0 = USED
X = NOT USED

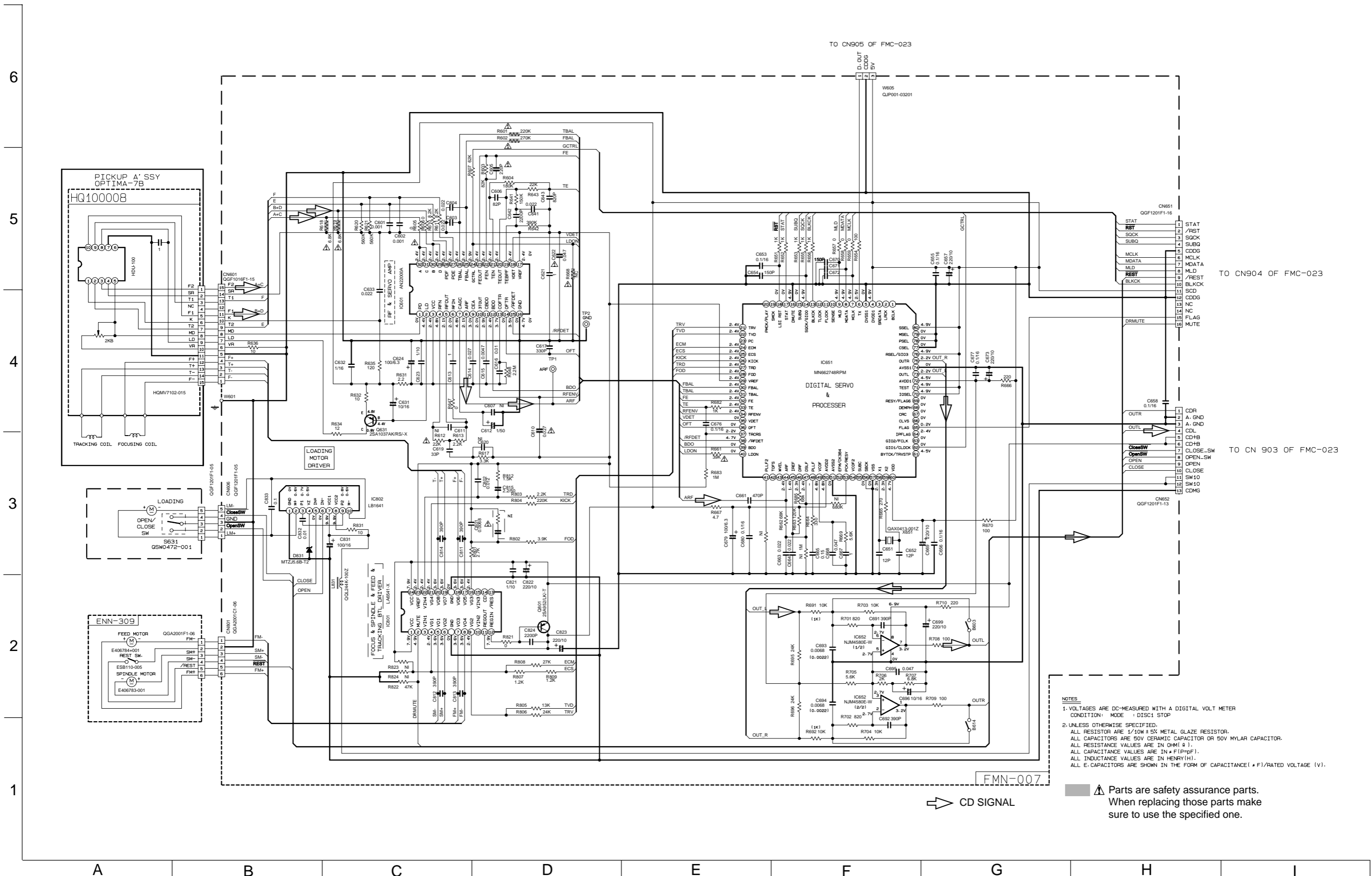
Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

- NOTES
- VOLTAGES ARE DC-MEASURED USING A DIGITAL VOLTMETER OR AN OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION
 - 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-T7 TYPE UNLESS SPECIFIED. POLYPROPYLENE CAPACITOR 50V ± 5% MYLAR CAPACITOR OR 50V ± 5% THIN FILM CAPACITOR
 - THOSE PART WITH BRACKET IS NOT USED. FOR RESISTOR-IT WOULD BE A SHORT. FOR CAPACITOR-IT WOULD BE AN OPEN.

MAIN SIGNAL

A B C D E F G H I

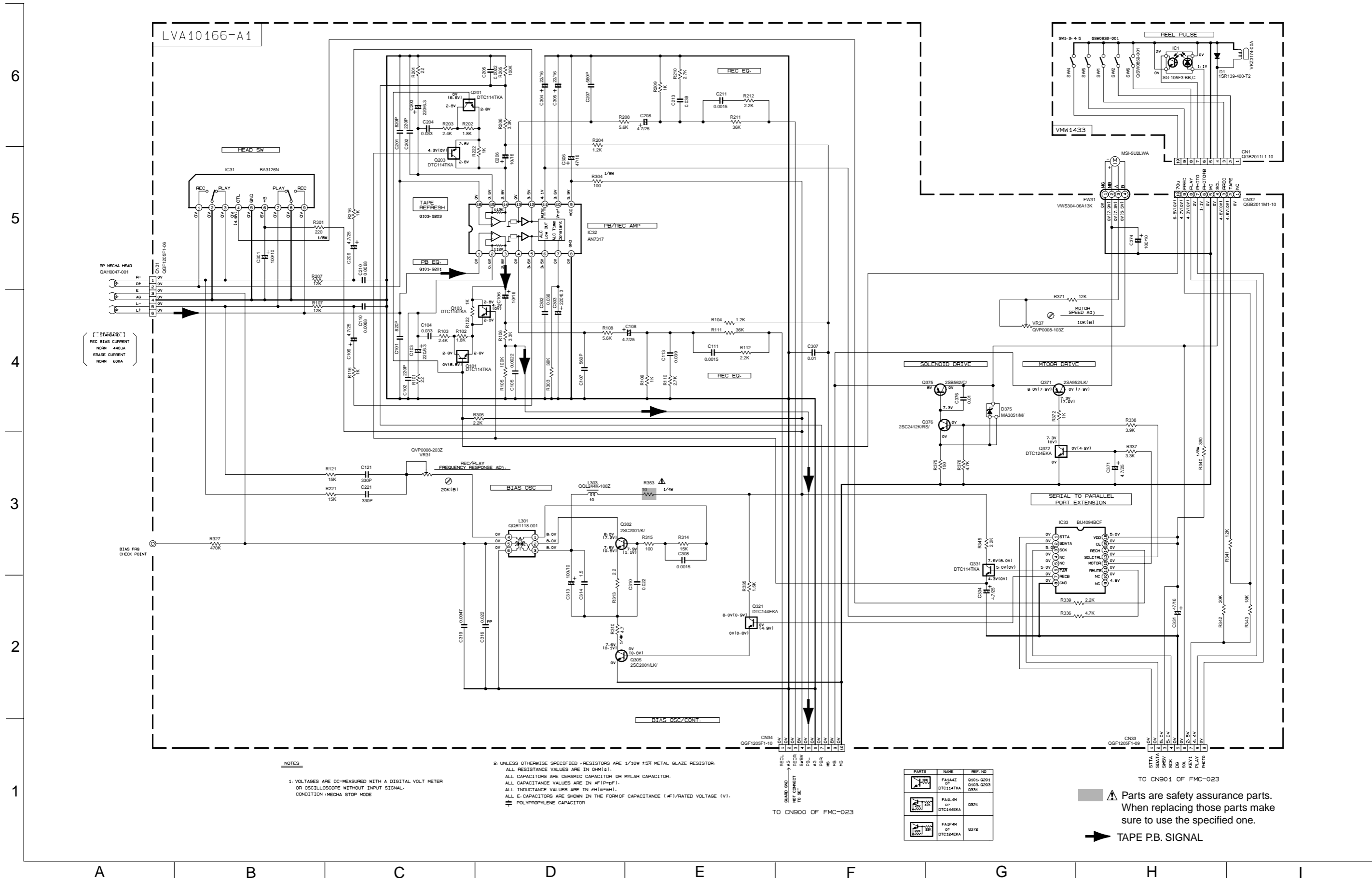
CD servo circuit



- 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 (pF).
ALL INDUCTANCE VALUES ARE IN HENRY (H).
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.

■ Cassette amplifier circuit



NOTES

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

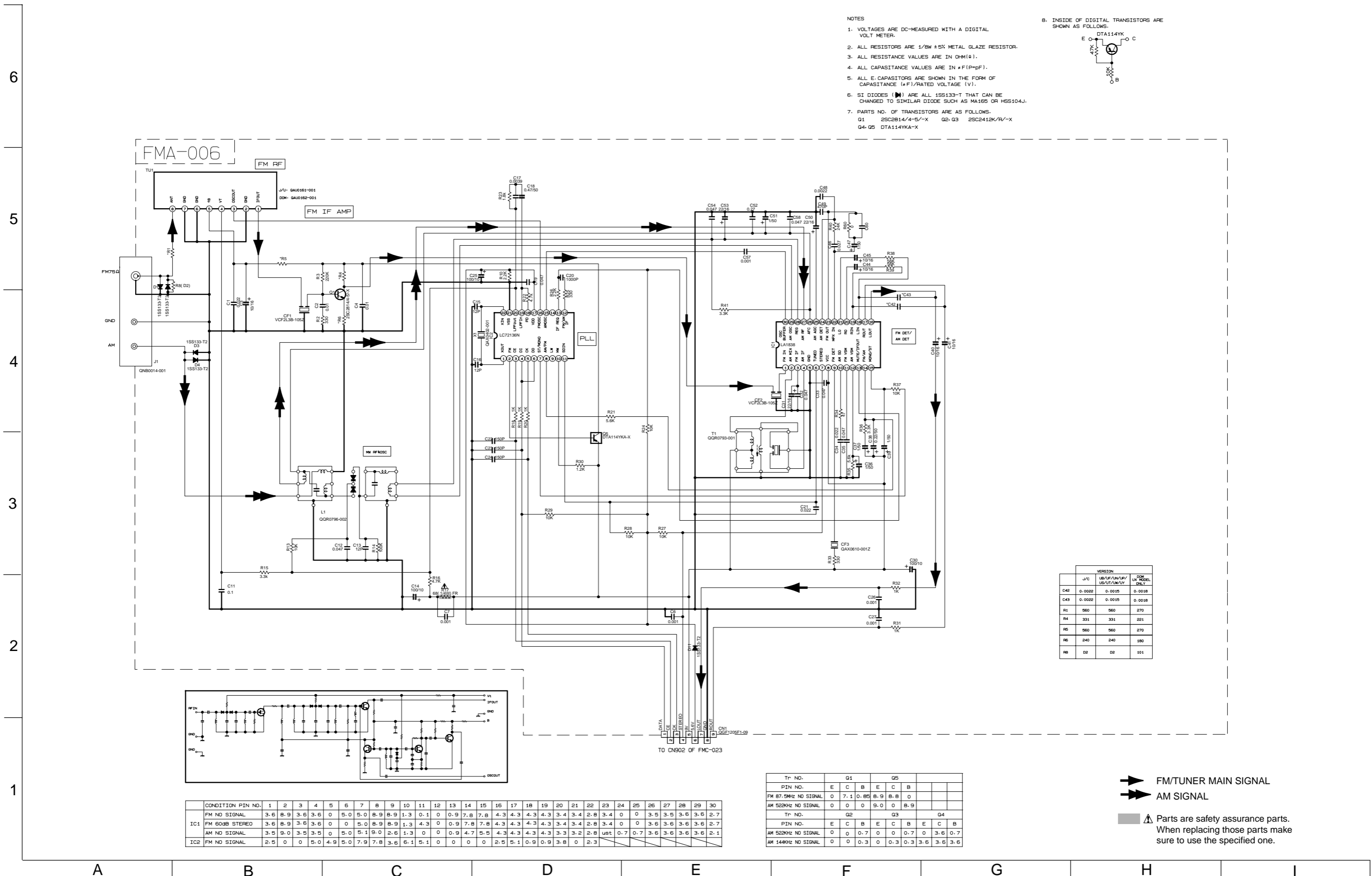
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. ALL RESISTANCE VALUES ARE IN OHM (Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN #F(100PF). ALL INDUCTANCE VALUES ARE IN #H(MH). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F/RATED VOLTAGE (V)). POLYPROPYLENE CAPACITOR

PARTS	NAME	REF. NO
	FA1A4Z	G101, G201
	DTC114TKA	G103, G203
	FA1F4H	G321
	FA1F4H	G372

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

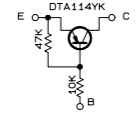
▶ TAPE P.B. SIGNAL

■ 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 nF(P=pF).
 5. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (±F)/RATED VOLTAGE (V).
 6. SI DIODES (▶) ARE ALL 1SS133-T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
 7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 2SC2814/4-5/-X Q2, Q3 2SC2412K/R/-X
Q4, Q5 DTA114KA-X

8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



VERSION			
U/C	USE/FP/FUN/AM/USE/UT/AM/AY	DOM	UX MODEL SERIAL
C42	0-0022	0-0015	0-0018
C43	0-0022	0-0015	0-0018
R1	560	560	270
R4	331	331	221
R8	560	560	270
R8	240	240	180
R8	D2	D2	101

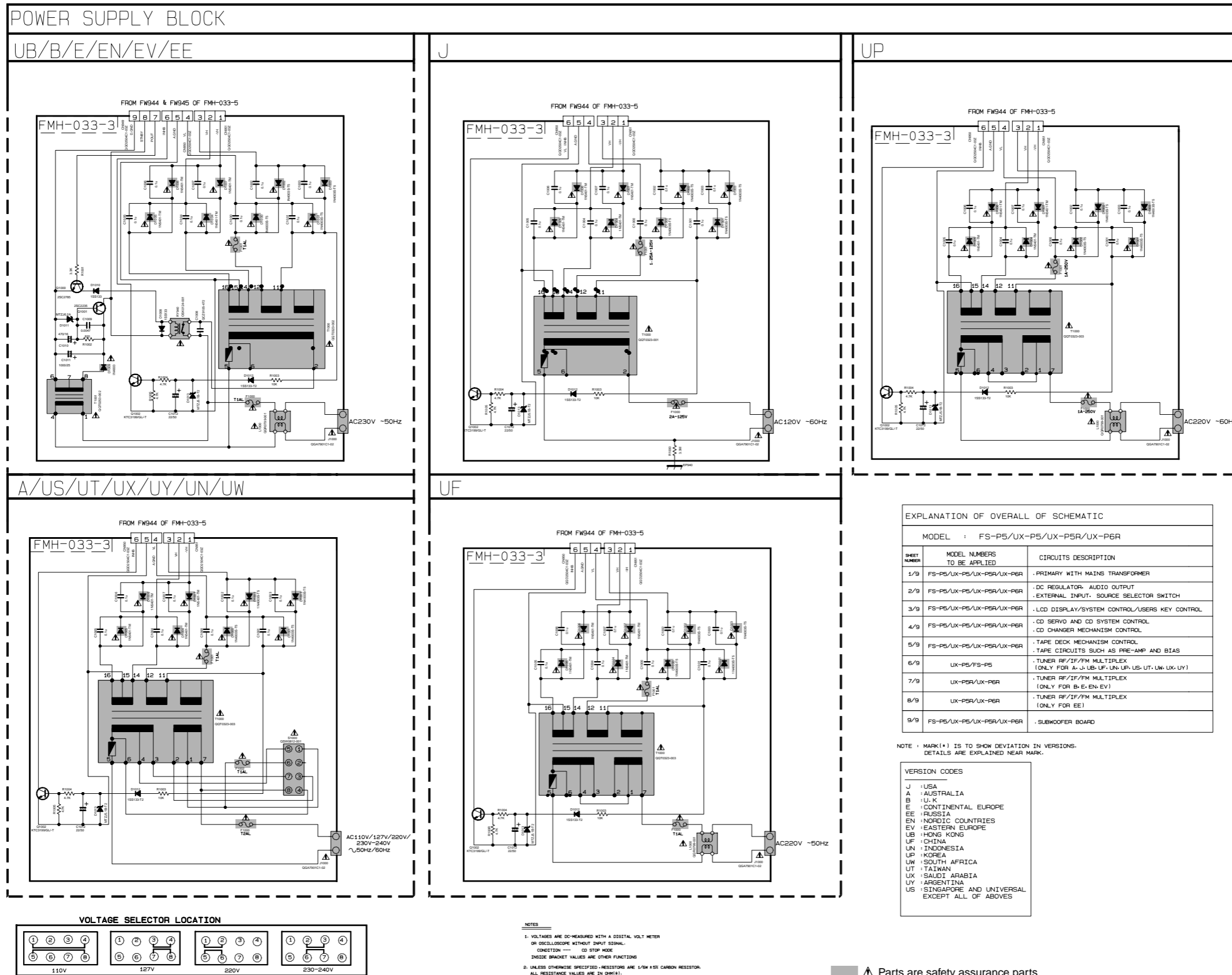
CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1 FM NO SIGNAL		3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	0.1	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.5	3.5	3.6	3.6	2-7
IC1 FM 60dB STEREO		3.6	8.9	3.6	3.6	0	0	5.0	8.9	8.9	1.3	4.3	0	0.9	7.8	7.8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

Tr. NO.	Q1	Q5				
PIN NO.	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	7-1	0-85	8-9	8-8	0
AM 52kHz NO SIGNAL	0	0	0	9-0	0	8-9

Tr. NO.	Q2	Q3	Q4					
PIN NO.	E	C	B	E	C	B		
AM 52kHz NO SIGNAL	0	0	0-7	0	0-7	0	3-6	0-7
AM 144kHz NO SIGNAL	0	0	0-3	0	0-3	0-3	3-6	3-6

▶ FM/TUNER MAIN SIGNAL
 ▶▶ AM SIGNAL
 ⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Power supply circuit



EXPLANATION OF OVERALL OF SCHEMATIC

MODEL : FS-P5/UX-P5/UX-P5R/UX-P6R

SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/9	FS-P5/UX-P5/UX-P5R/UX-P6R	PRIMARY WITH MAINS TRANSFORMER
2/9	FS-P5/UX-P5/UX-P5R/UX-P6R	DC REGULATOR, AUDIO OUTPUT, EXTERNAL INPUT, SOURCE SELECTOR SWITCH
3/9	FS-P5/UX-P5/UX-P5R/UX-P6R	LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL
4/9	FS-P5/UX-P5/UX-P5R/UX-P6R	CD SERVO AND CD SYSTEM CONTROL, CD CHANGER MECHANISM CONTROL
5/9	FS-P5/UX-P5/UX-P5R/UX-P6R	TAPE DECK MECHANISM CONTROL, TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS
6/9	UX-P5/FS-P5	TUNER RF/IF/FM MULTIPLEX (ONLY FOR A, J, UB, UF, UN, UP, US, UT, UX, UY)
7/9	UX-P5R/UX-P6R	TUNER RF/IF/FM MULTIPLEX (ONLY FOR B, E, EN, EV)
8/9	UX-P5R/UX-P6R	TUNER RF/IF/FM MULTIPLEX (ONLY FOR EE)
9/9	FS-P5/UX-P5/UX-P5R/UX-P6R	SUBWOOFER BOARD

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

VERSION CODES

- J : USA
- A : AUSTRALIA
- B : U.K
- E : CONTINENTAL EUROPE
- EE : RUSSIA
- EN : NORDIC COUNTRIES
- EV : EASTERN EUROPE
- UB : HONG KONG
- UF : CHINA
- UN : INDONESIA
- UP : KOREA
- UW : SOUTH AFRICA
- UT : TAIWAN
- UX : SAUDI ARABIA
- UY : ARGENTINA
- US : SINGAPORE AND UNIVERSAL EXCEPT ALL OF ABOVE

NOTES

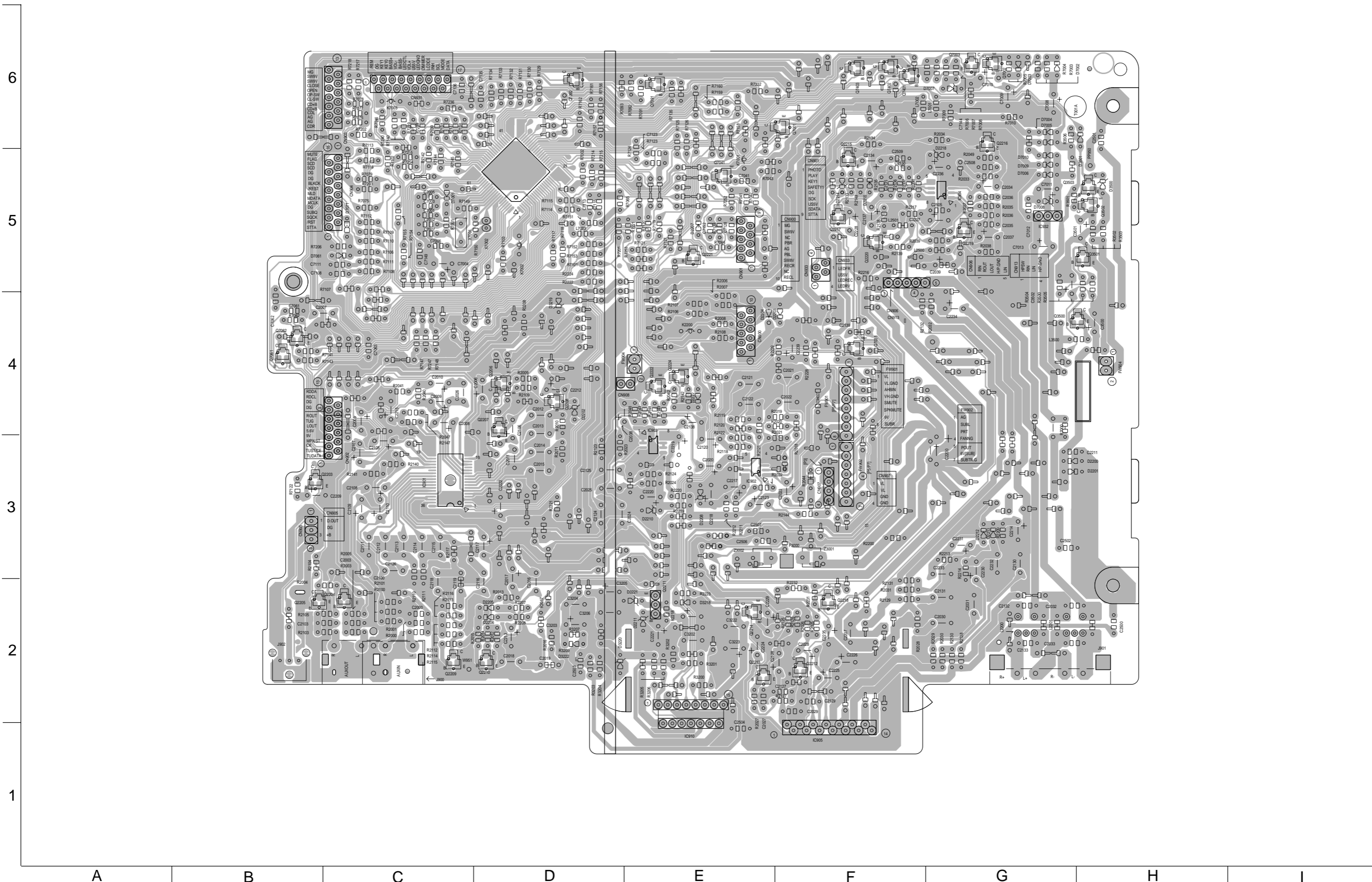
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
 CONDITION — CD STOP MODE
 INSIDE BRACKET VALUES ARE OTHER FUNCTIONS

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
 ALL RESISTANCE VALUES ARE IN OHMS (Ω).
 ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
 ALL CAPACITANCE VALUES ARE IN nF (n=10⁻⁹), μF (μ=10⁻⁶).
 ALL INDUCTANCE VALUES ARE IN mH (m=10⁻³).
 ALL C CAPACTORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
 ALL DIODES (10V, Name: 1SS133-T2)

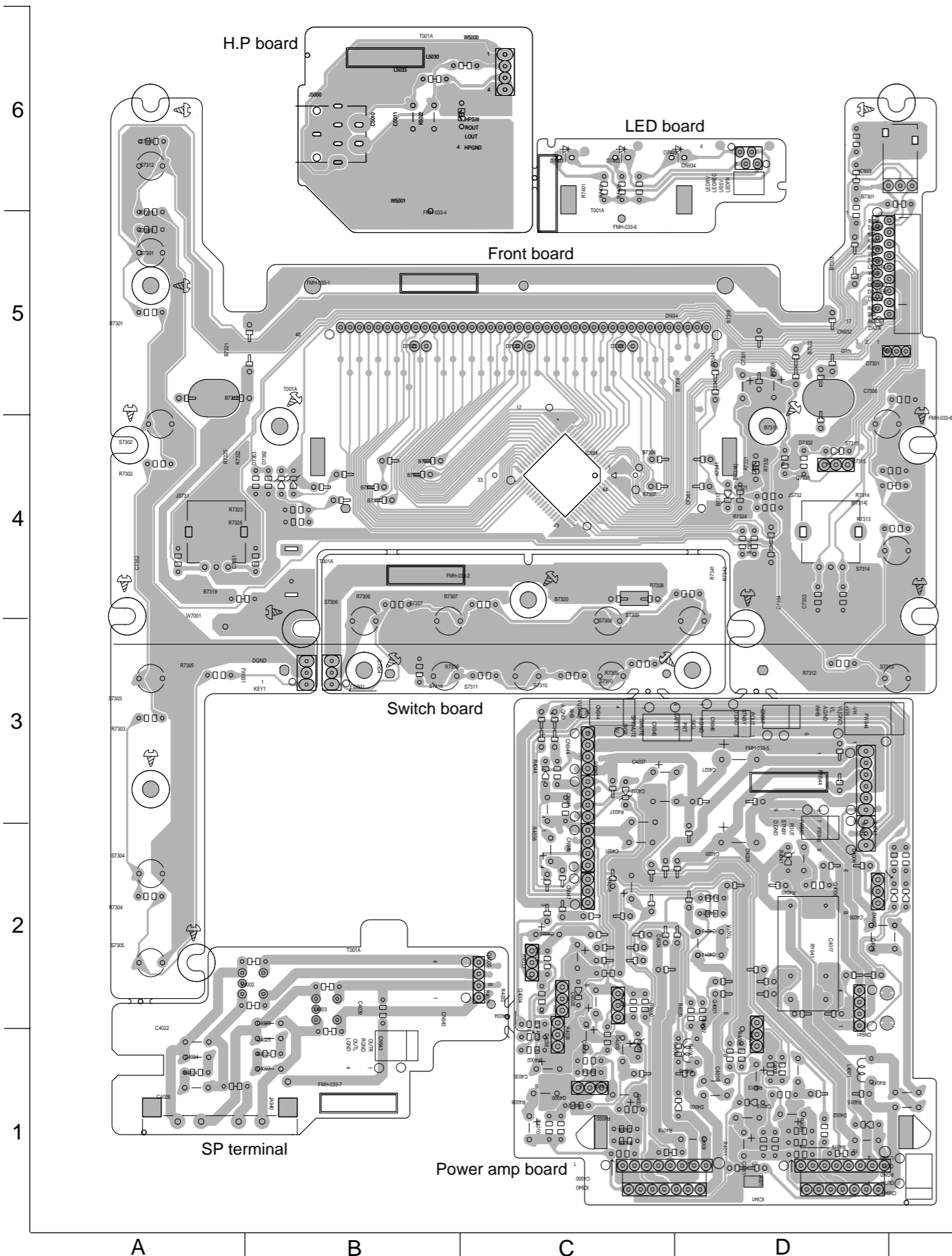
▲ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Printed circuit boards

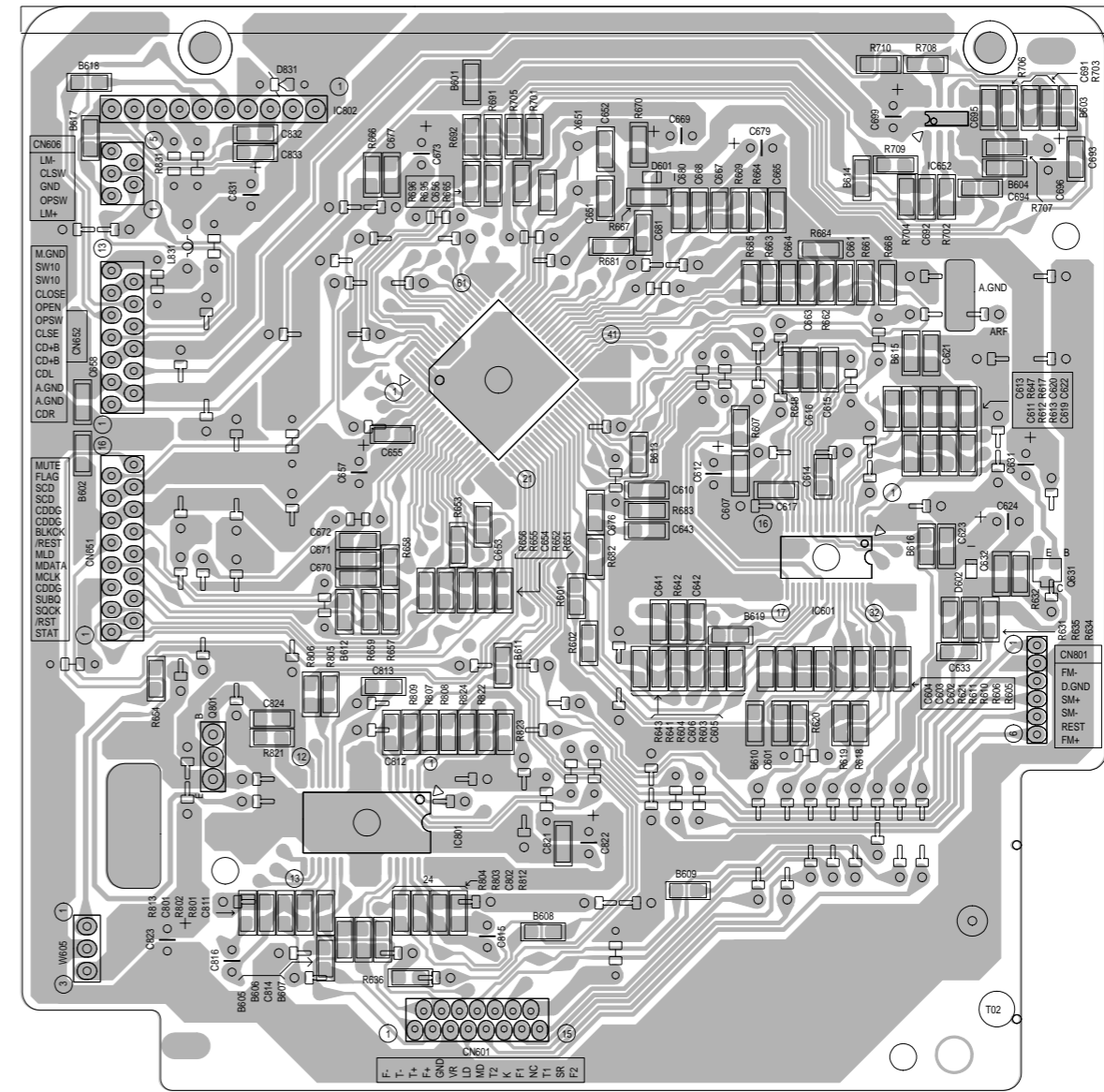
■ Main board Block No. 01



■ Front board Block No. 02

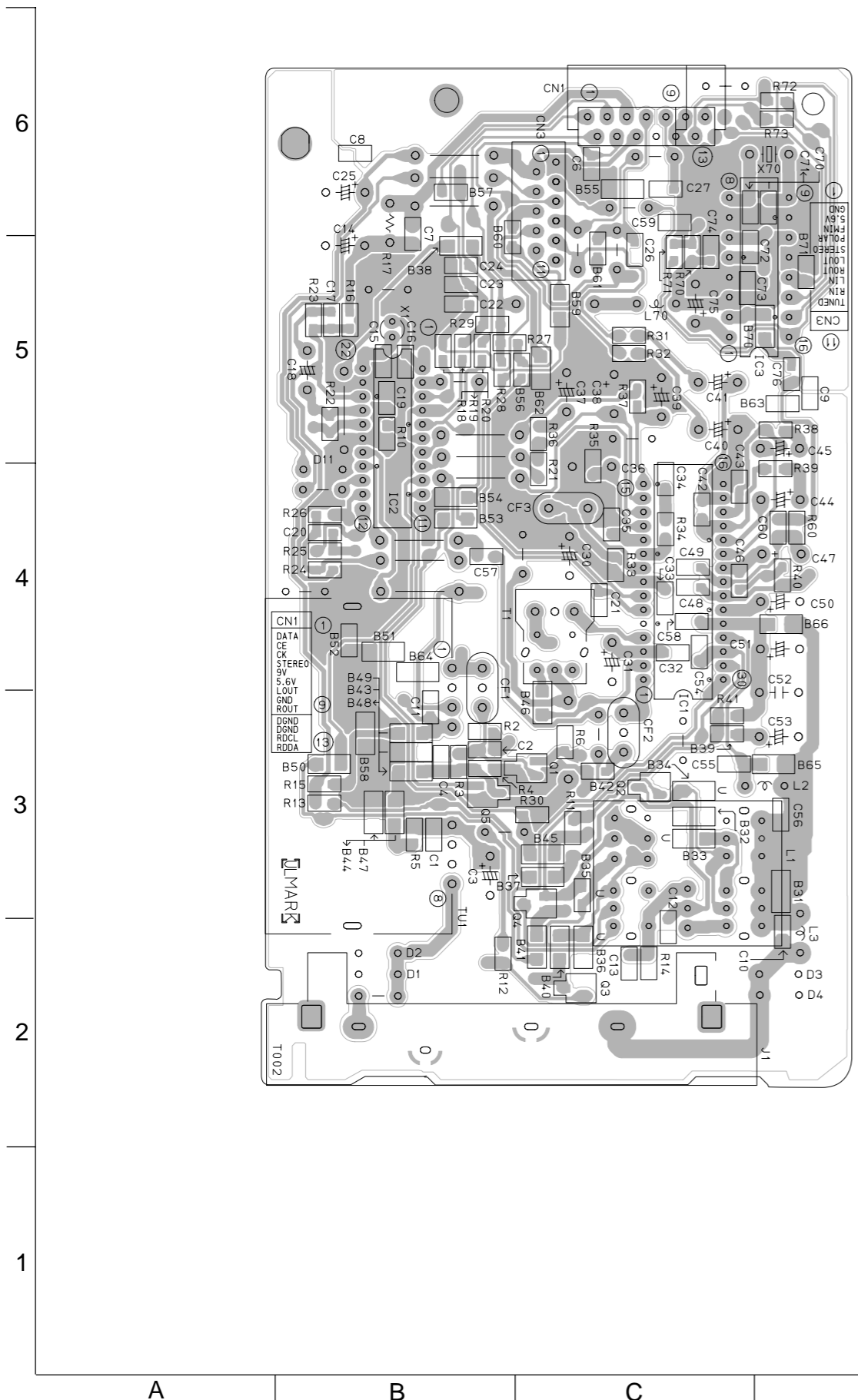


■ CD servo board Block No. 03



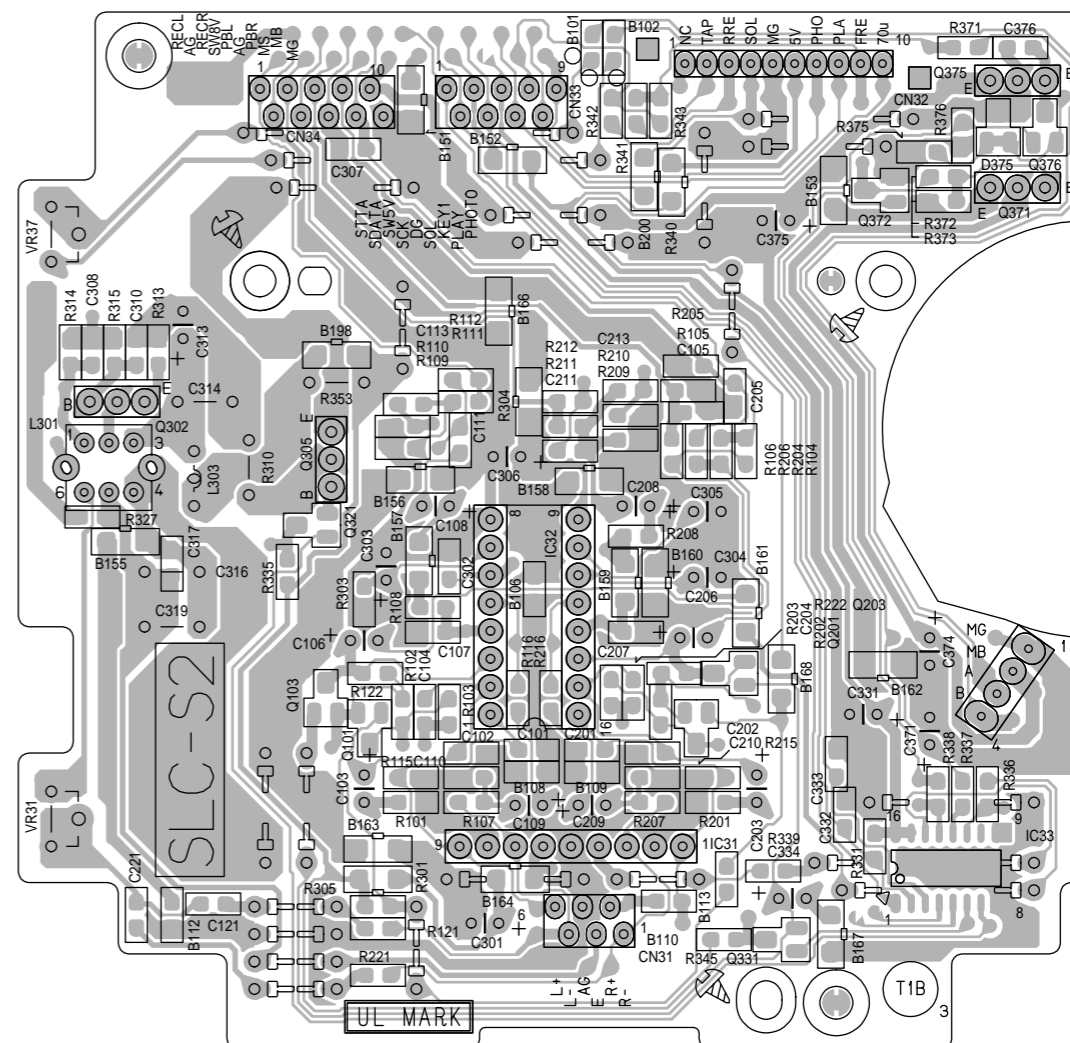
■ Tuner board

Block No. 04



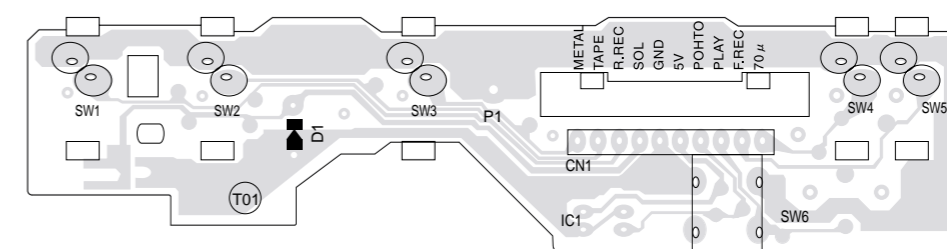
■ Head amplifier board

Block No. 05



■ Cassett switch board

Block No. 06



<<MEMO>>