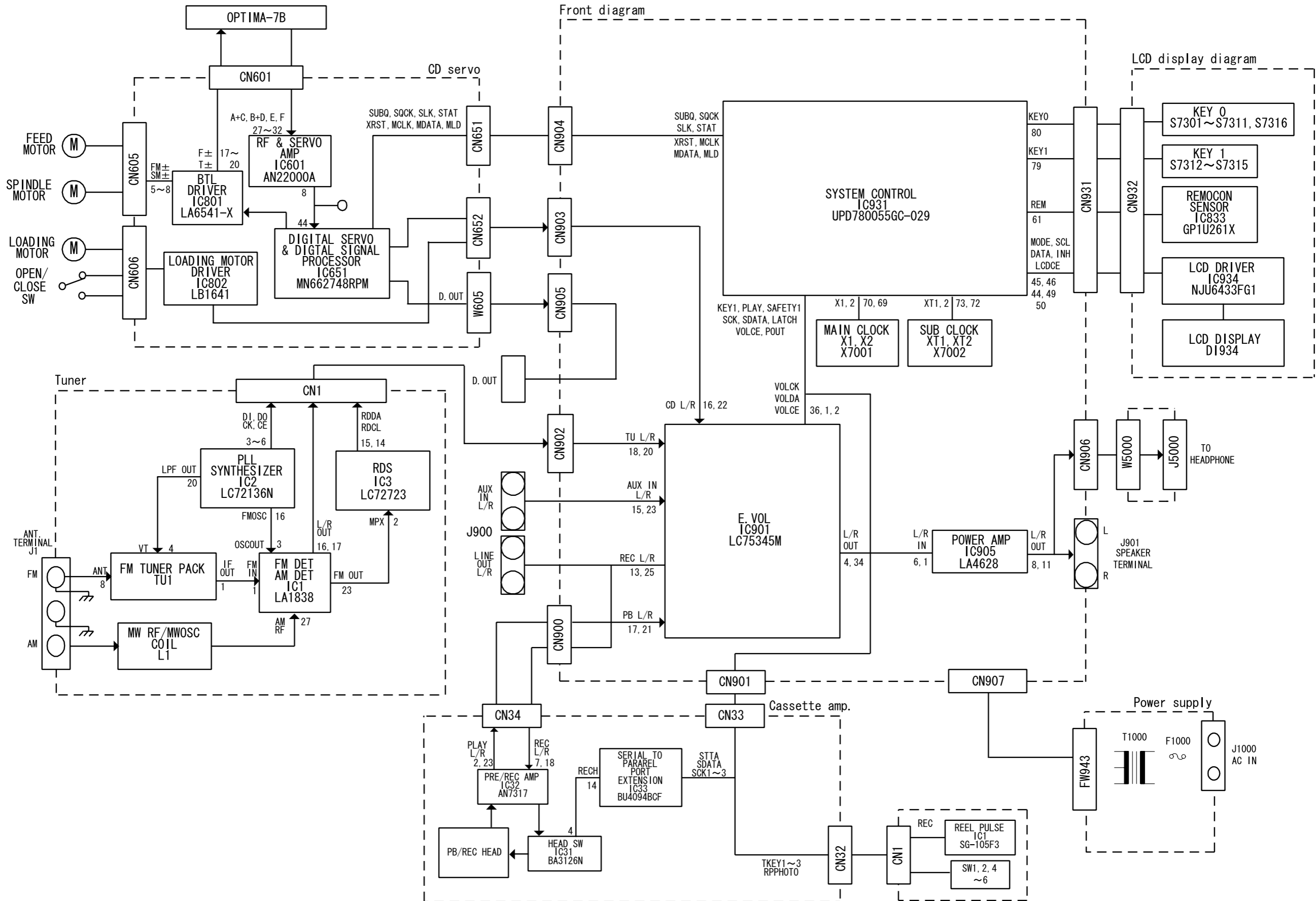


Block diagram



Standard schematic diagrams

Front circuit

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A

B

C

D

E

F

G

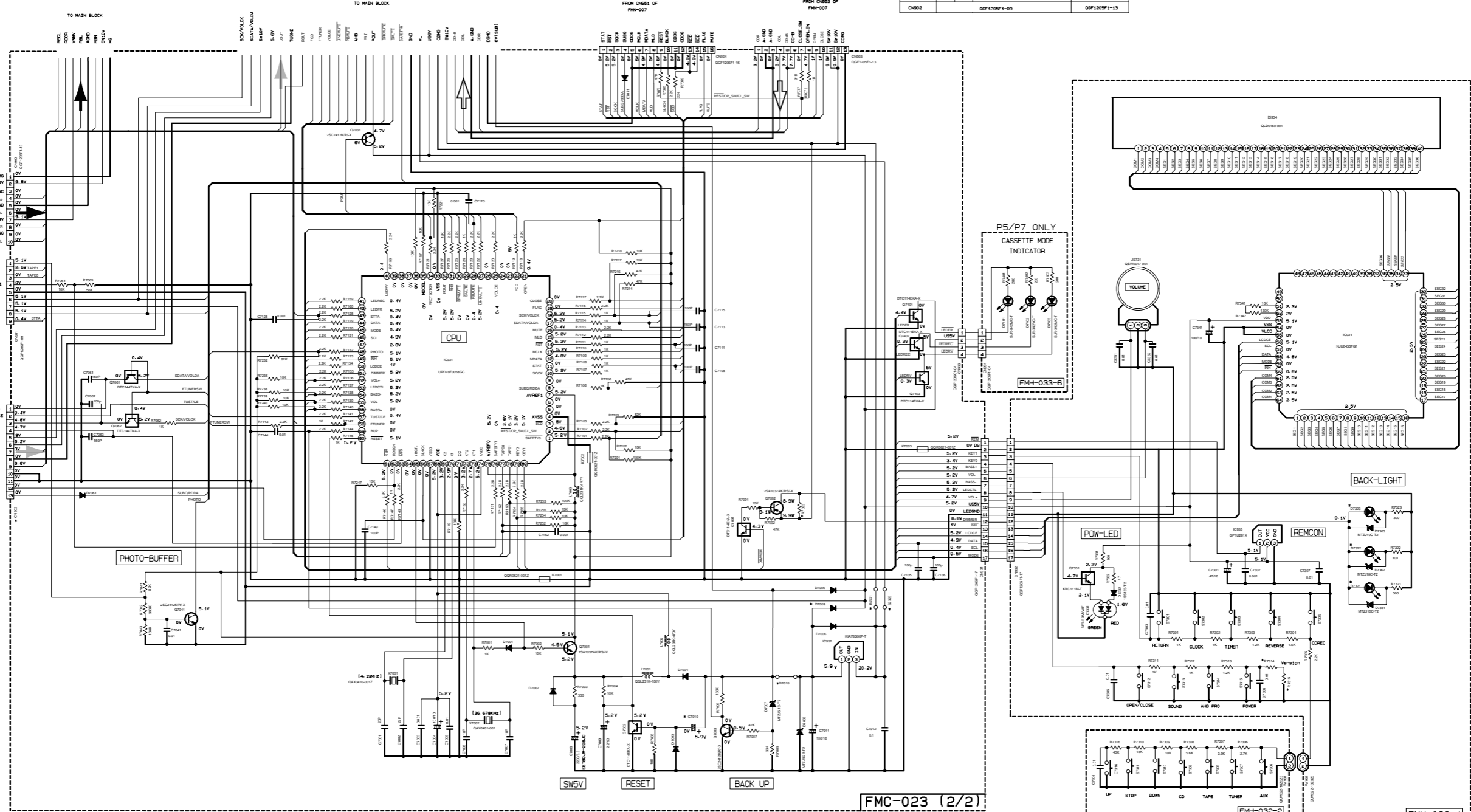
H

I

DTC144TKA-X 47K OPEN Q7061/Q7062	DTC144TKA-X 10K OPEN Q7002	DTC144EK-X 10K Q7091/Q7401/Q7402/Q7403
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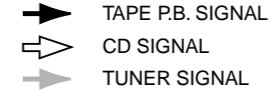
MARK

VERSION	PS-PS	UX-PS	UX-PS	UX-PS	UX-PS	UX-PS	UX-PS
ITEMS	(L)	(A)	(UBA/FAN/UP)	(UBA/FAN/UP)	(UBA/FAN/UP)	(UBA/FAN/UP)	(UBA/FAN/UP)
R7059	1K	1K	1K	1K	1K	1K	1K
C7361	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE
D7363	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE
D7071/8M	8M						D7071
R7314 (VERSION1)	10K	B/W	B/W	B/W	B/W	B/W	B/W
R7315 (VERSION1)	60K	47K	47K	47K	3.3K	1.5K	10K
C7010	4.7/50	10/50		4.7/50			10/50
D7009	NONE	USE		NONE			USE
R0018	USE	NONE		USE			NONE
R0021	NONE	USE		NONE			USE
R0023	USE	NONE		USE			NONE
C0002	GIP 1209P 1-09						GIP 1209P 1-13

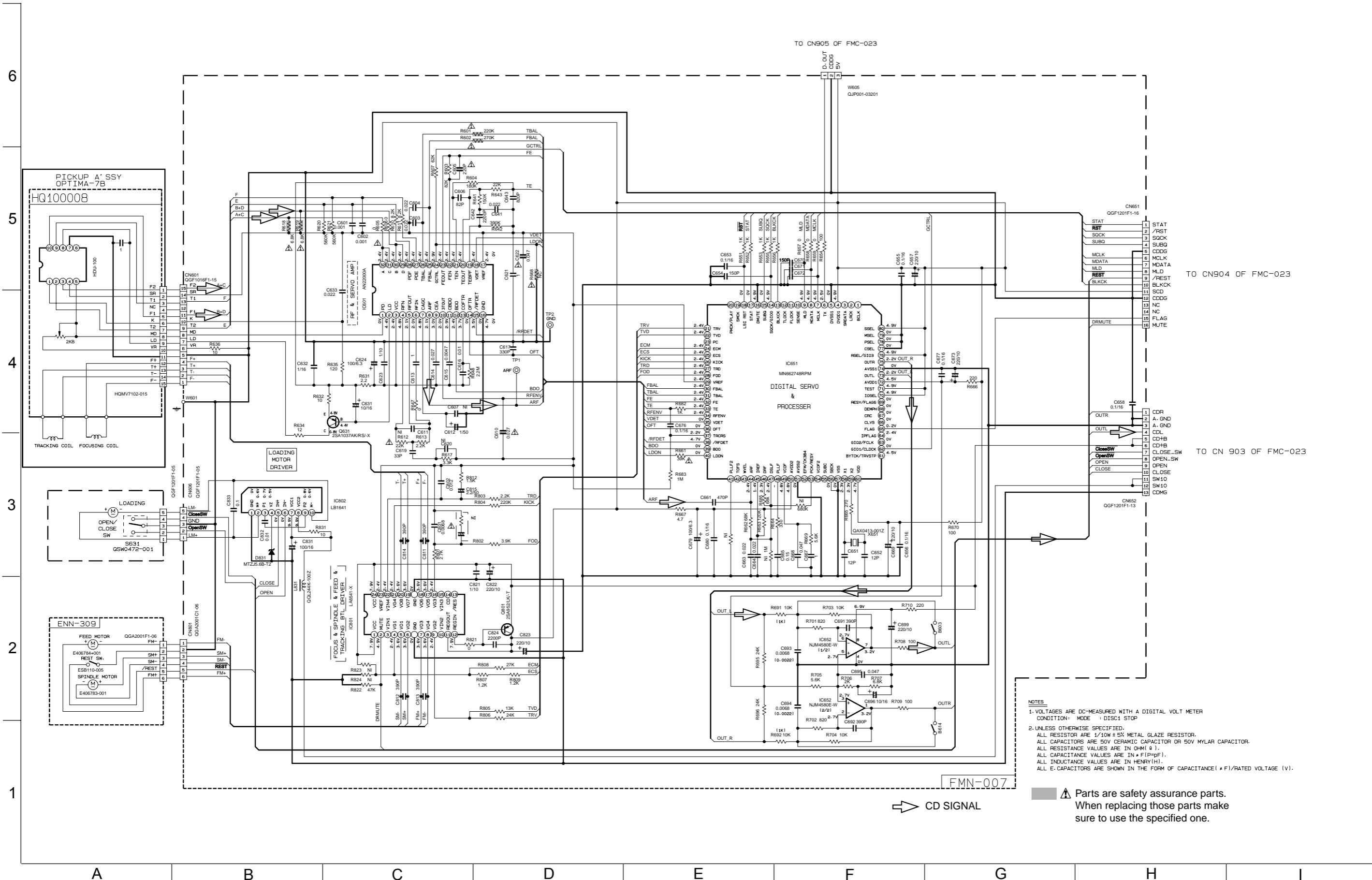


NOTES

- 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(Ω), M(KΩ), G(MΩ). ALL CAPACITANCE VALUES ARE IN nF(nP), μF(μP), pF(pP). ALL INDUCTANCE VALUES ARE IN μH(μHP), mH(mHP), H(HP). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V). ALL DIODES ARE IN 1SS133-T7 UNLESS SPECIFIED.



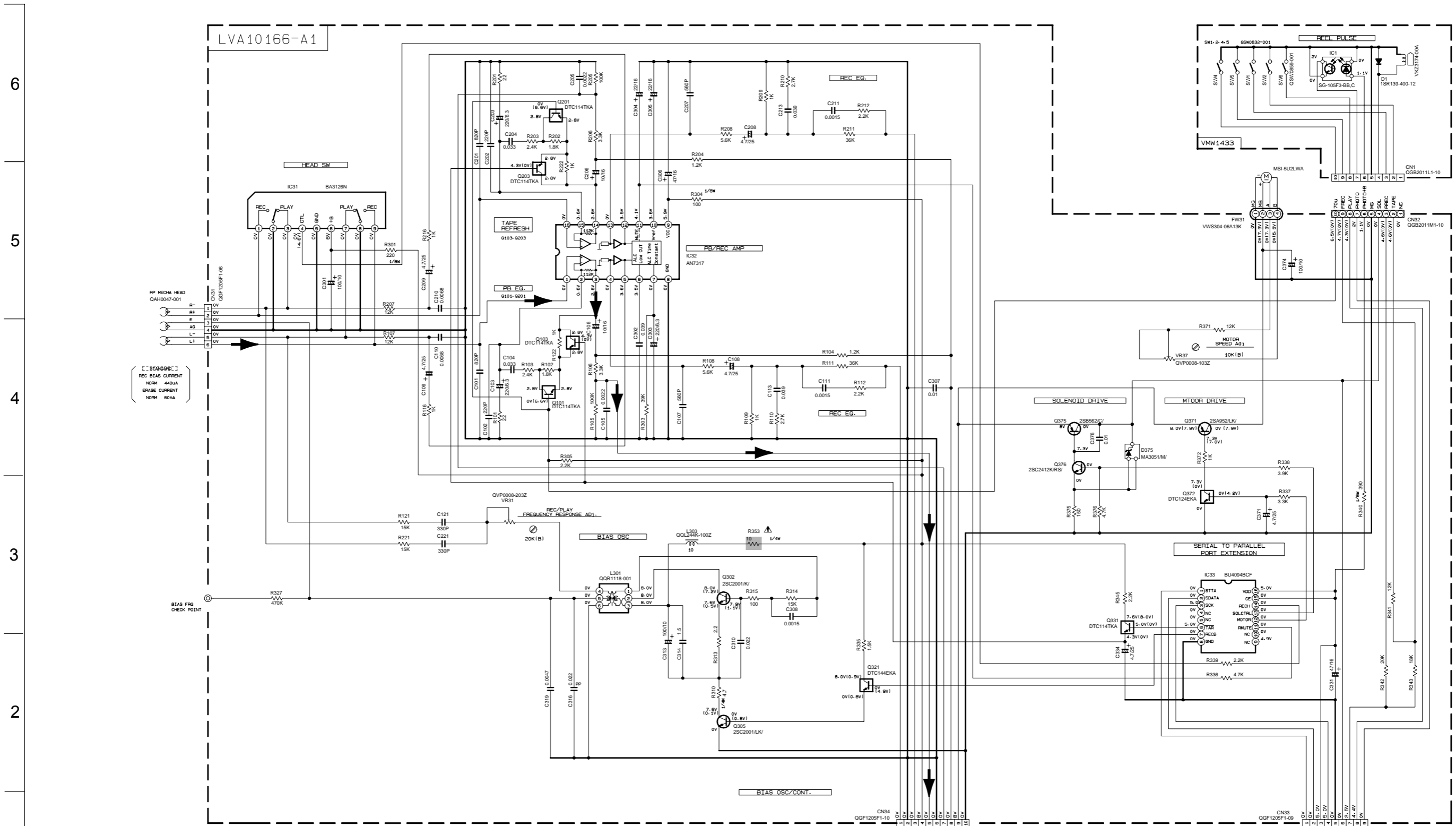
CD servo circuit



- 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(F)(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 Ω(MHΩ).
- 3. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN nF(μF).
- 4. ALL INDUCTANCE VALUES ARE IN μH(mH).
- 5. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
- 6. POLYPROPYLENE CAPACITOR

TO CN90 OF FMC-023
TO CN90 OF FMC-023

PARTS	NAME	REF. NO
	FA1A4Z or DTC114TKA	Q101-Q201 Q103-Q203 Q331
	FA1F4H or DTC144EKA	Q321
	FA1F4H or DTC144EKA	Q372

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

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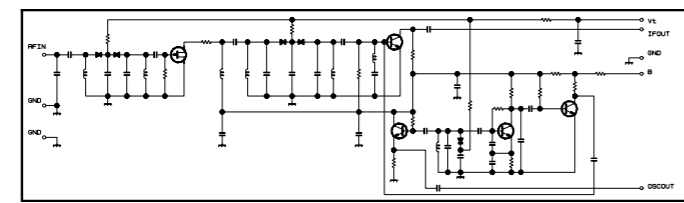
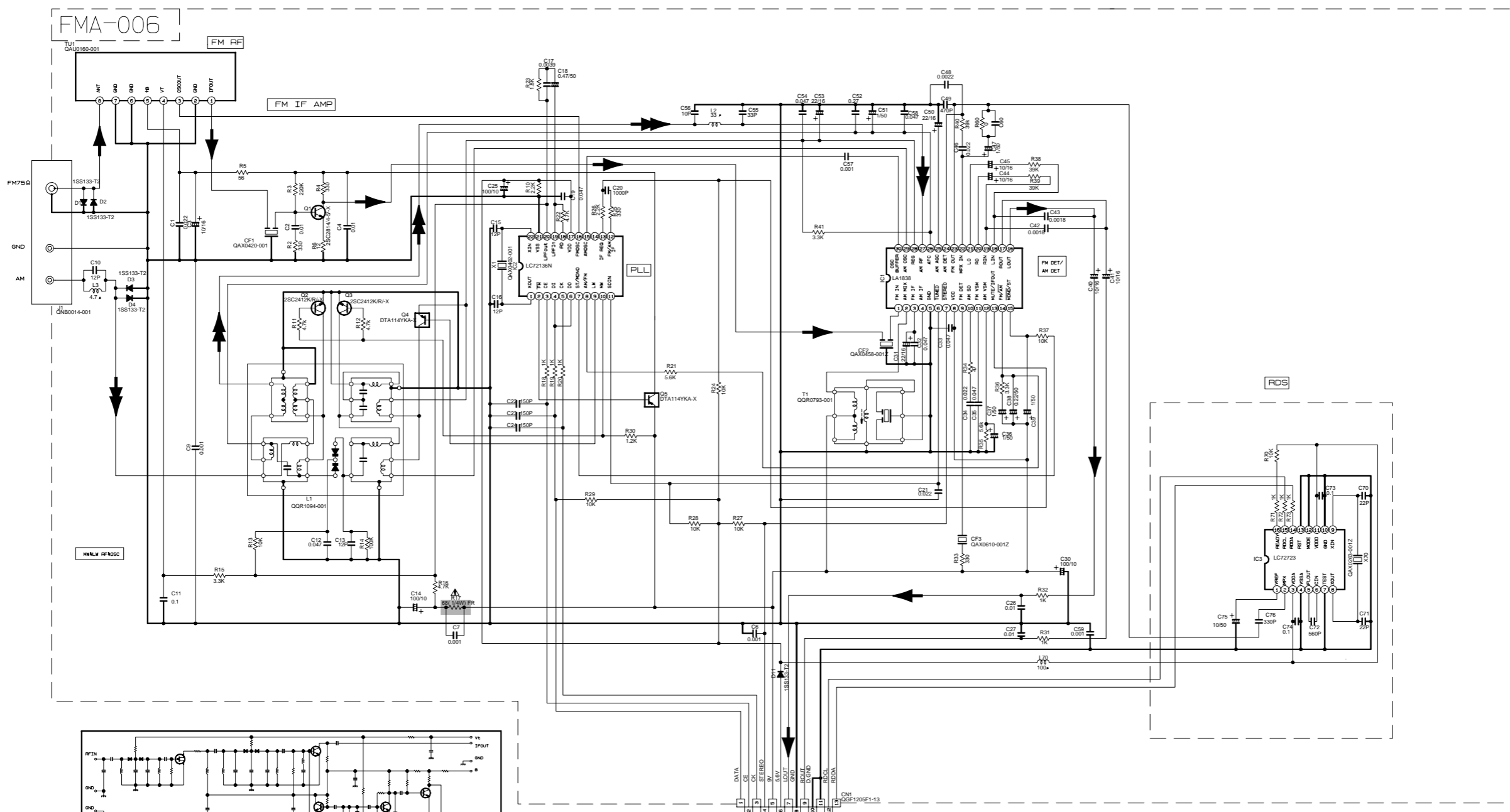
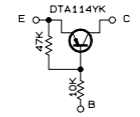
A B C D E F G H I

■ Tuner circuit (E)

6
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1

- 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 Ω(MΩ).
 4. ALL CAPACITANCE VALUES ARE IN pF(PpF).
 5. ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/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 DTA114YKA-X

B. 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	2.8	3.4	0	0	3.6	3.6	3.6	2.7		
	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	2.8	3.4	0	0	3.6	3.6	3.6	2.7		
	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	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	Q2	Q3	Q4	
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
PIN NO.	E	C	B	E	C	B
AM 52KHz NO SIGNAL	0	0	0	0.7	0	0.7
AM 144KHz NO SIGNAL	0	0	0.3	0	0.3	3.6

➔ FM/TUNER MAIN SIGNAL
➔ AM SIGNAL

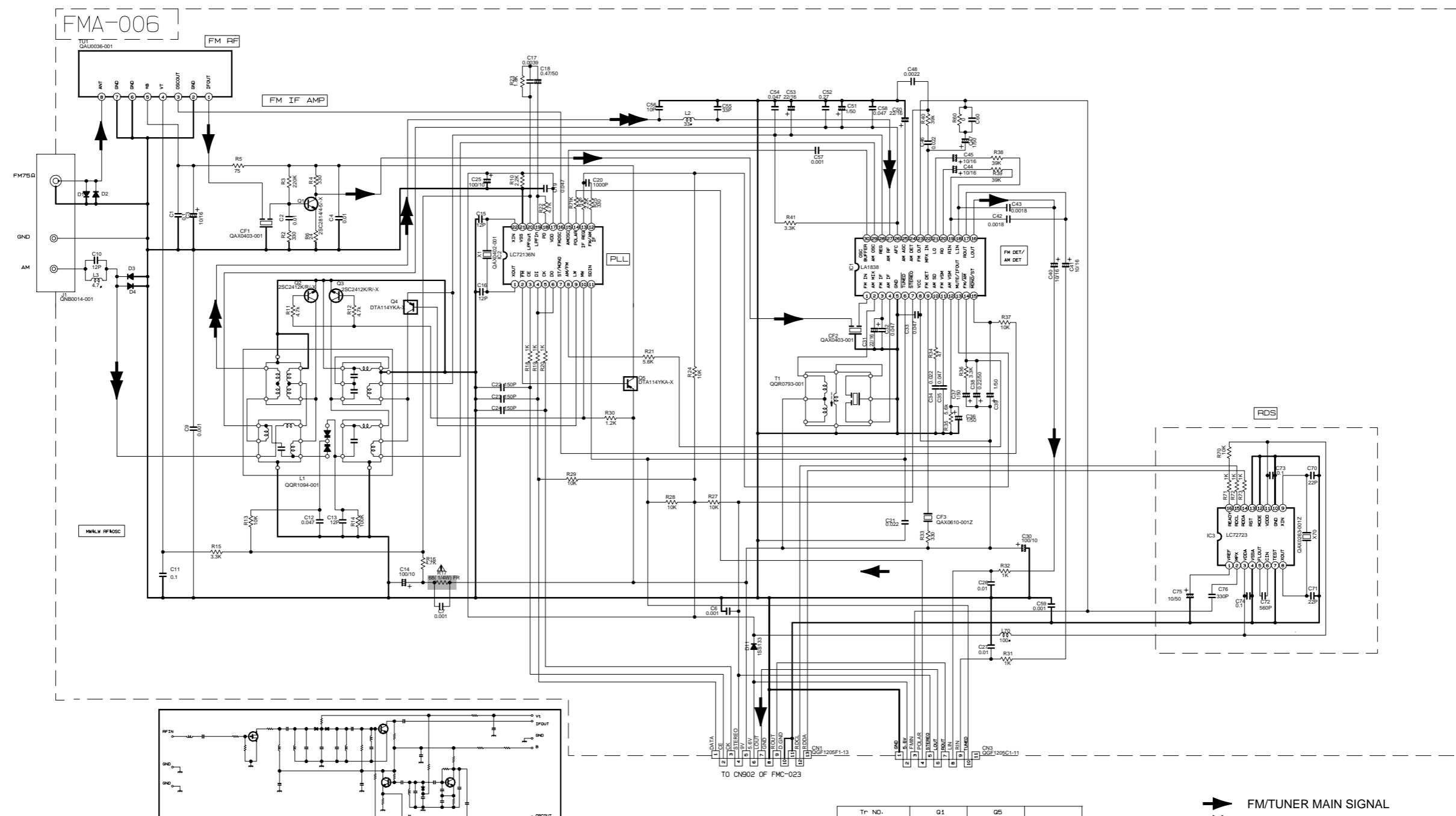
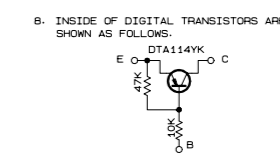
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

A B C D E F G H I

■ Tuner circuit (EE)

6
5
4
3
2
1

- 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 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 1SS133-T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
 7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 Q2 2SC2814/4-S/-X Q3 Q3 2SC2412K/R/-X
Q4 Q5 DTA114YK-X



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	3.5	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	3.4	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								

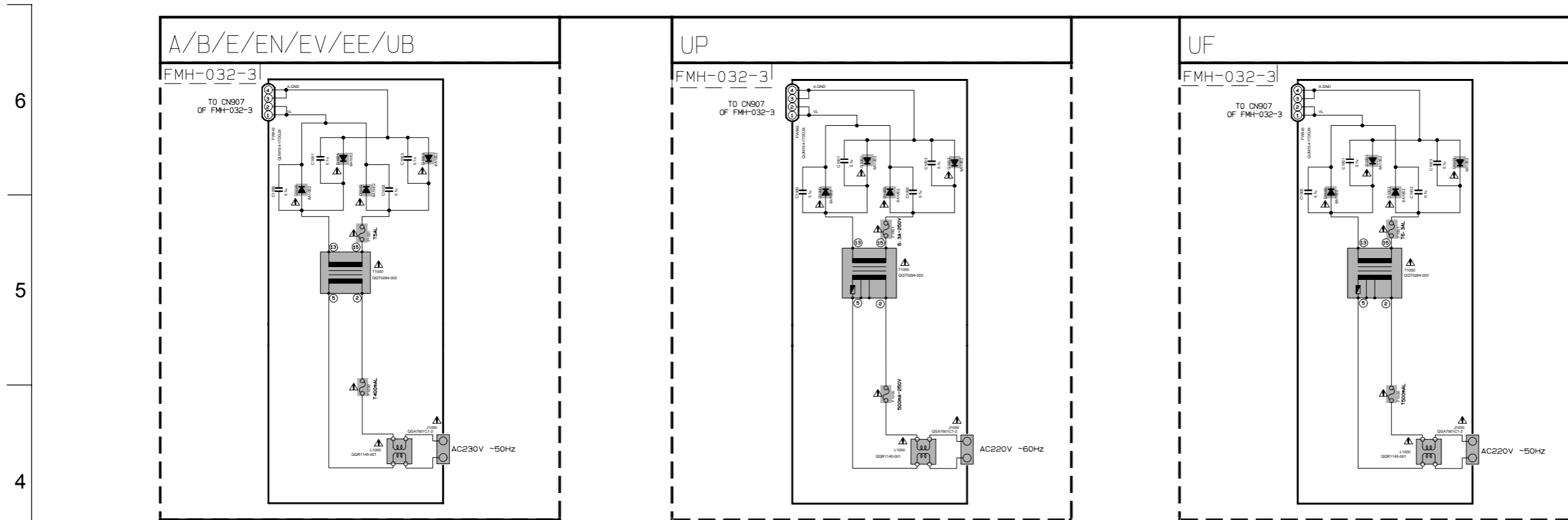
Tr. NO.	Q1				Q5				
PIN NO.	E	C	B	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	7.1	0.85	8.9	8.8	0			
AM 522kHz NO SIGNAL	0	0	0	9.0	0	8.9			

Tr. NO.	Q2				Q3				
PIN NO.	E	C	B	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	0	0.7	0	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	3.6

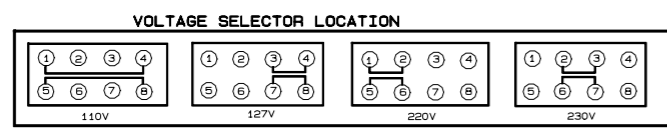
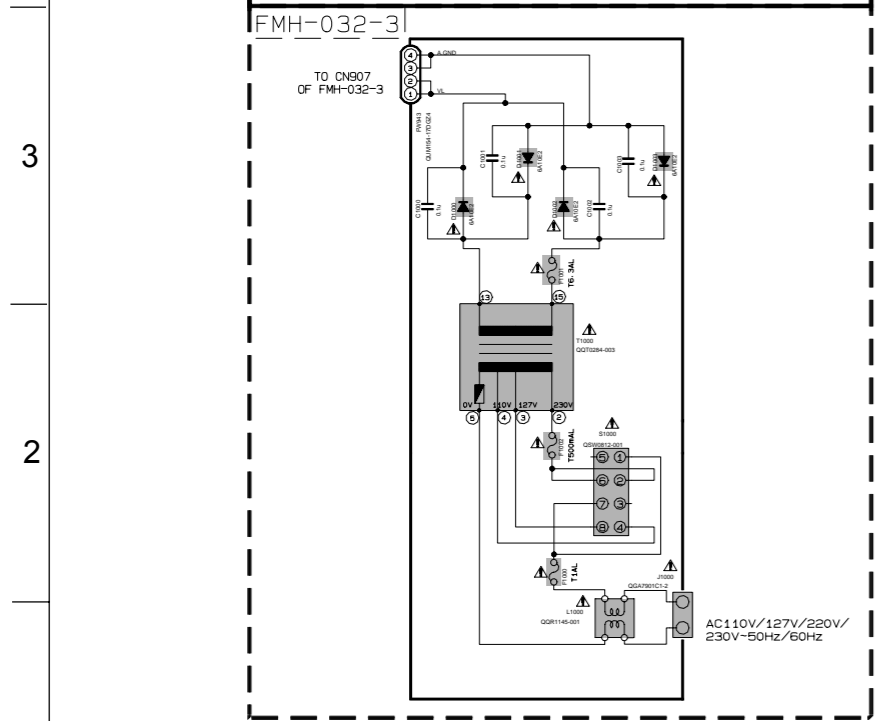
FM/TUNER MAIN SIGNAL
 AM SIGNAL
 Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

A B C D E F G H I

Power supply circuit



US/UT/UX/UY/UN/UW



EXPLANATION OF OVERALL OF SCHEMATIC

MODEL : UX-P3/UX-P3R/UX-P4R

SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/8	UX-P3/UX-P3R/UX-P4R	· PRIMARY WITH MAINS TRANSFORMER
2/8	UX-P3/UX-P3R/UX-P4R	· DC REGULATOR, AUDIO OUTPUT · EXTERNAL INPUT, SOURCE SELECTOR SWITCH
3/8	UX-P3/UX-P3R/UX-P4R	· LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL
4/8	UX-P3/UX-P3R/UX-P4R	· CD SERVO AND CD SYSTEM CONTROL · CD CHANGER MECHANISM CONTROL
5/8	UX-P3/UX-P3R/UX-P4R	· TAPE DECK MECHANISM CONTROL · TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS
6/8	UX-P3	· TUNER RF/IF/FM MULTIPLEX (ONLY FOR A, UB, UF, UN, UP, US, UT, UW, UX, UY)
7/8	UX-P3R/UX-P4R	· TUNER RF/IF/FM MULTIPLEX (ONLY FOR B, E, EN, EV)
8/8	UX-P3REEM	· TUNER RF/IF/FM MULTIPLEX (ONLY FOR EE)

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

VERSION CODES

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

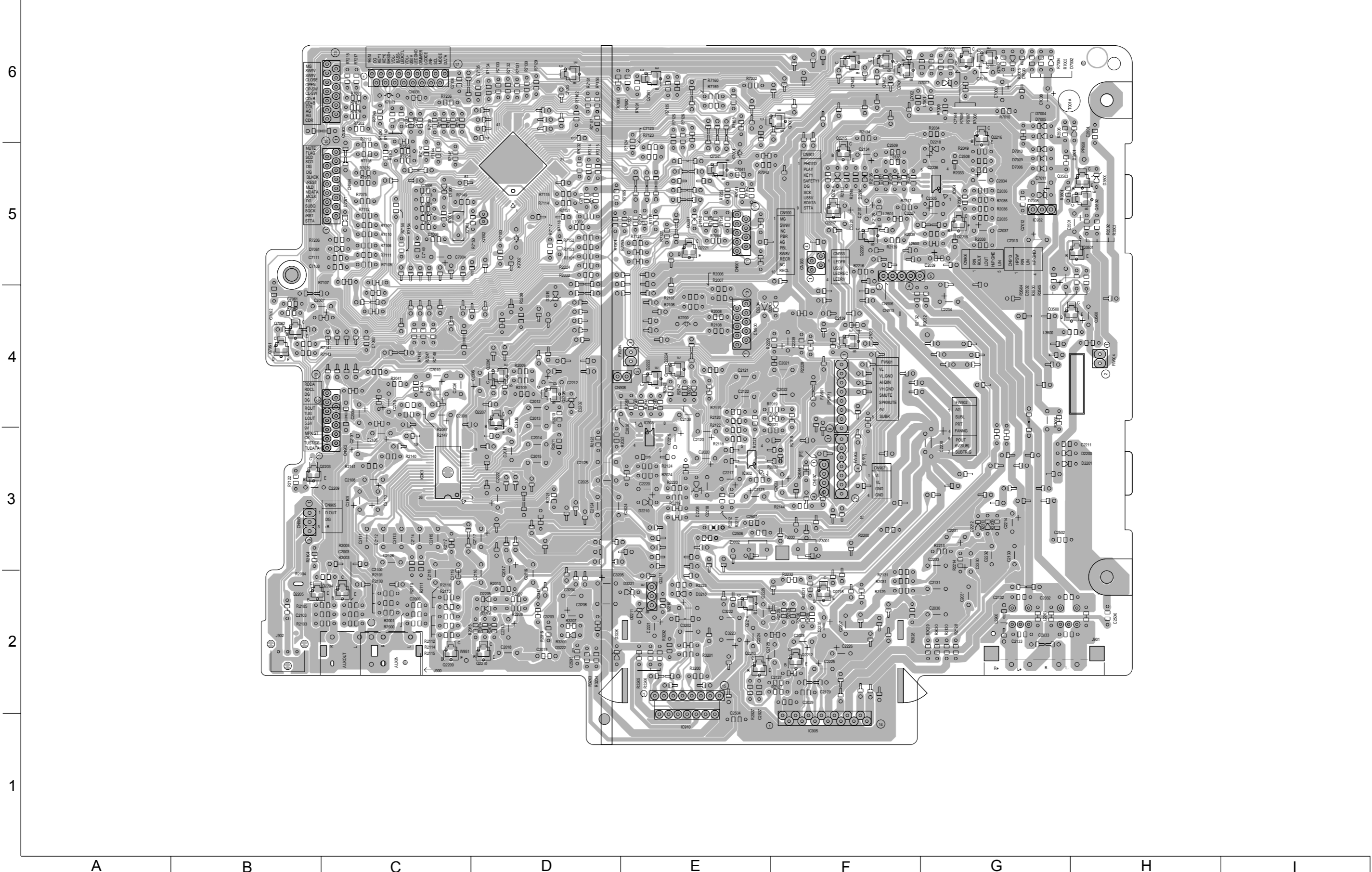
EXCEPT ALL OF ABOVE

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
 - UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W ± 5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(S). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN pF(pFpF). ALL INDUCTANCE VALUES ARE IN mH(mHmH). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (uF)/RATED VOLTAGE (V).

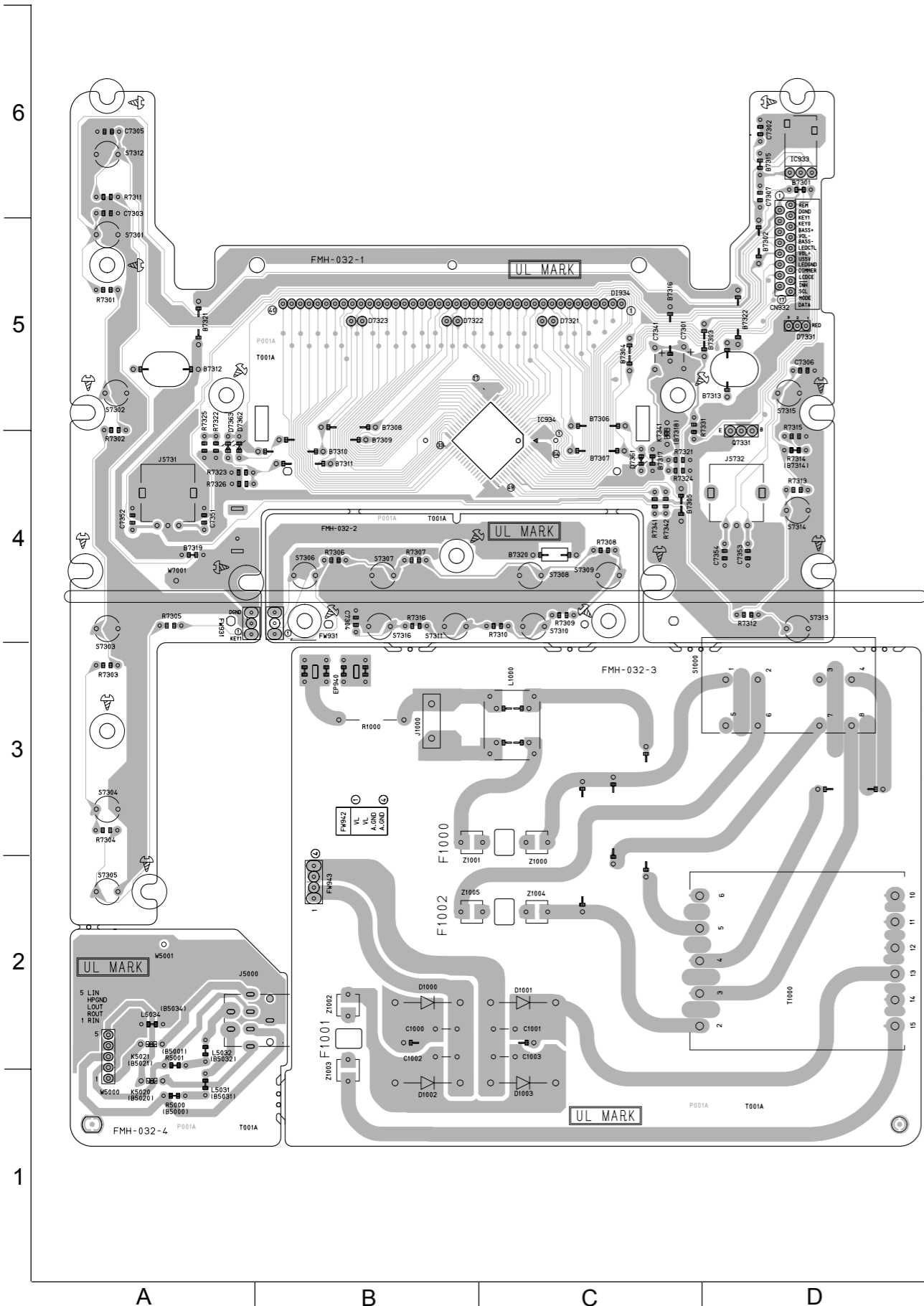
Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Printed circuit boards

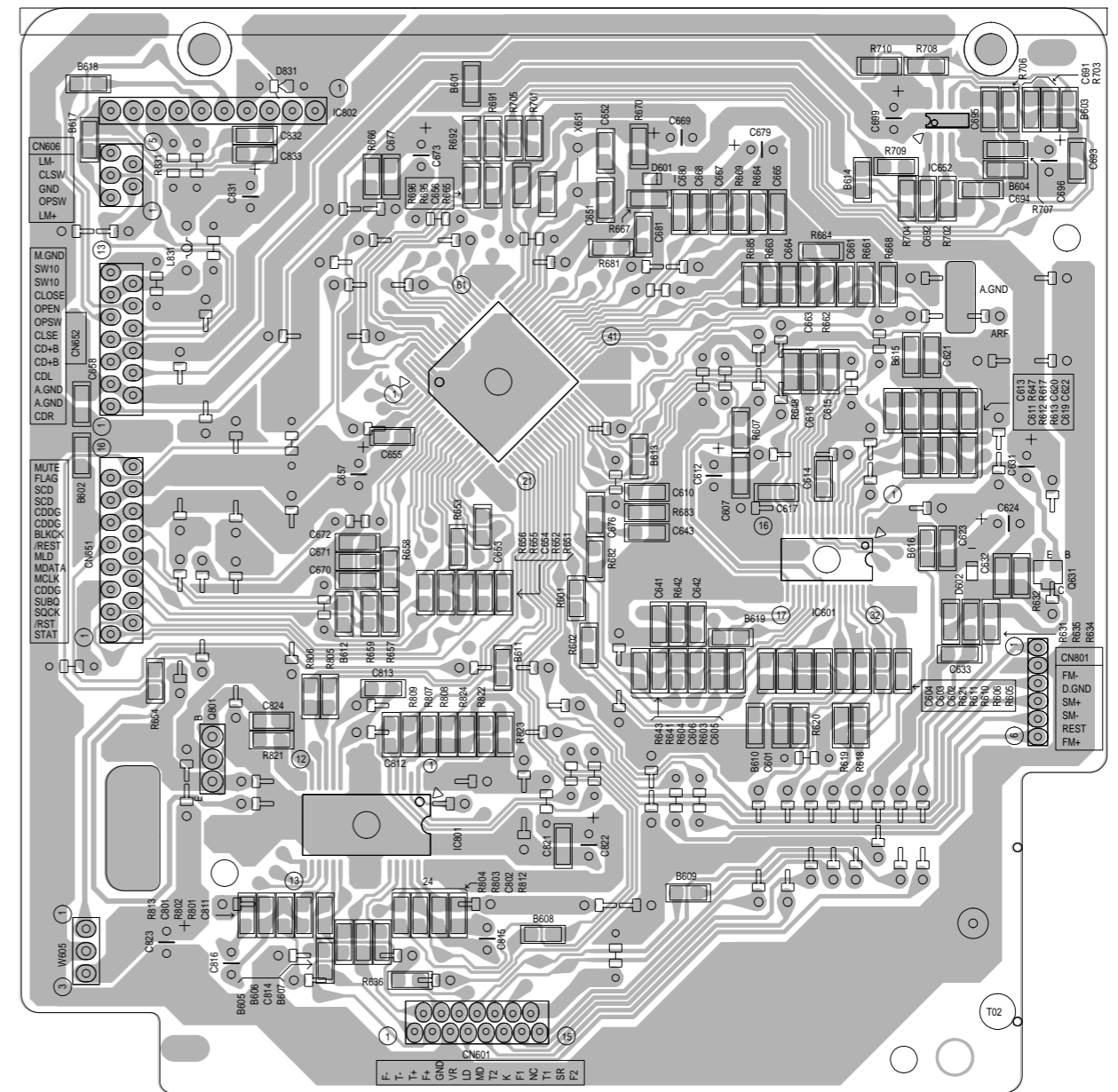
■ Main board Block No. 01



■ Front board Block No. 02

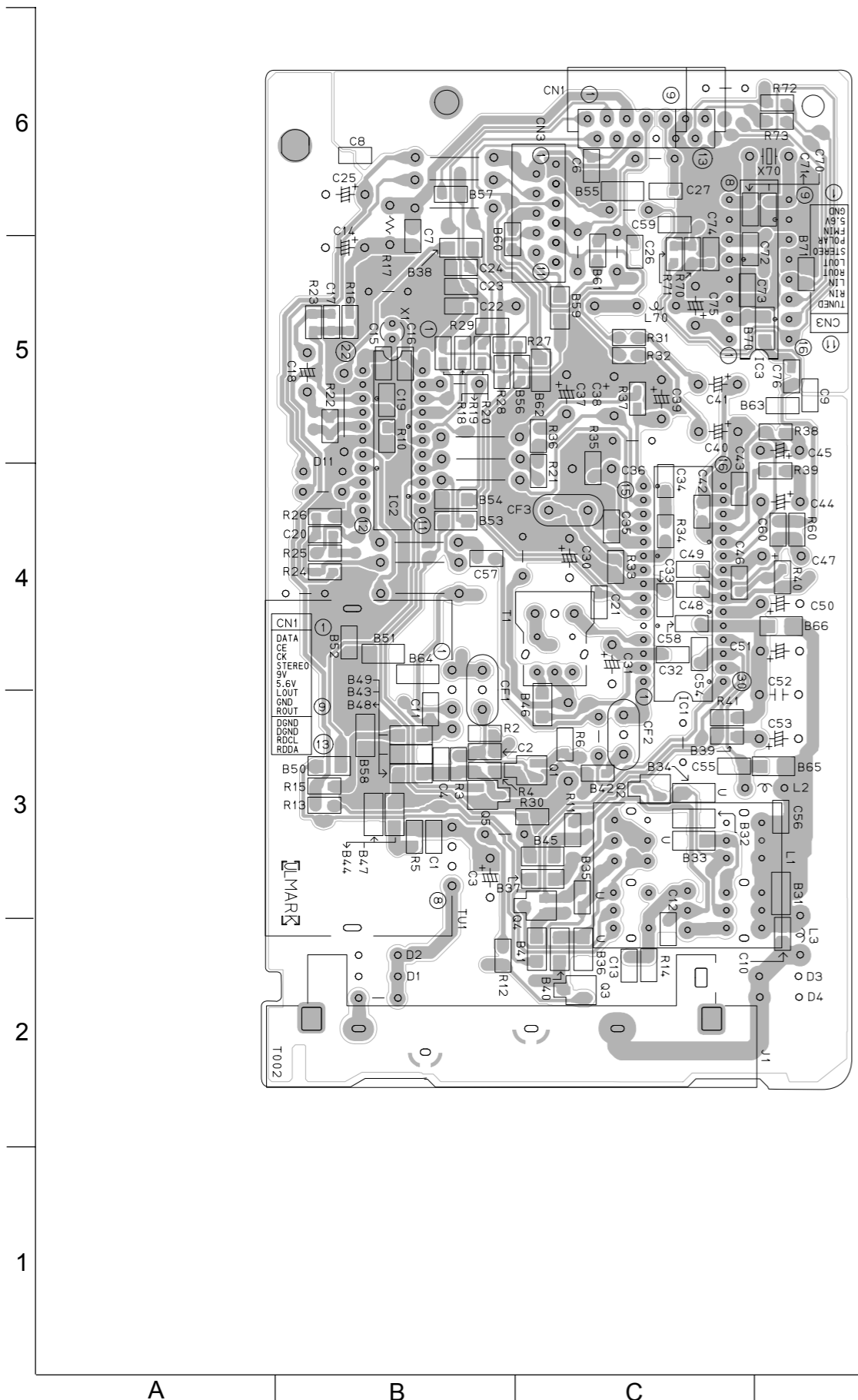


■ CD servo board Block No. 03



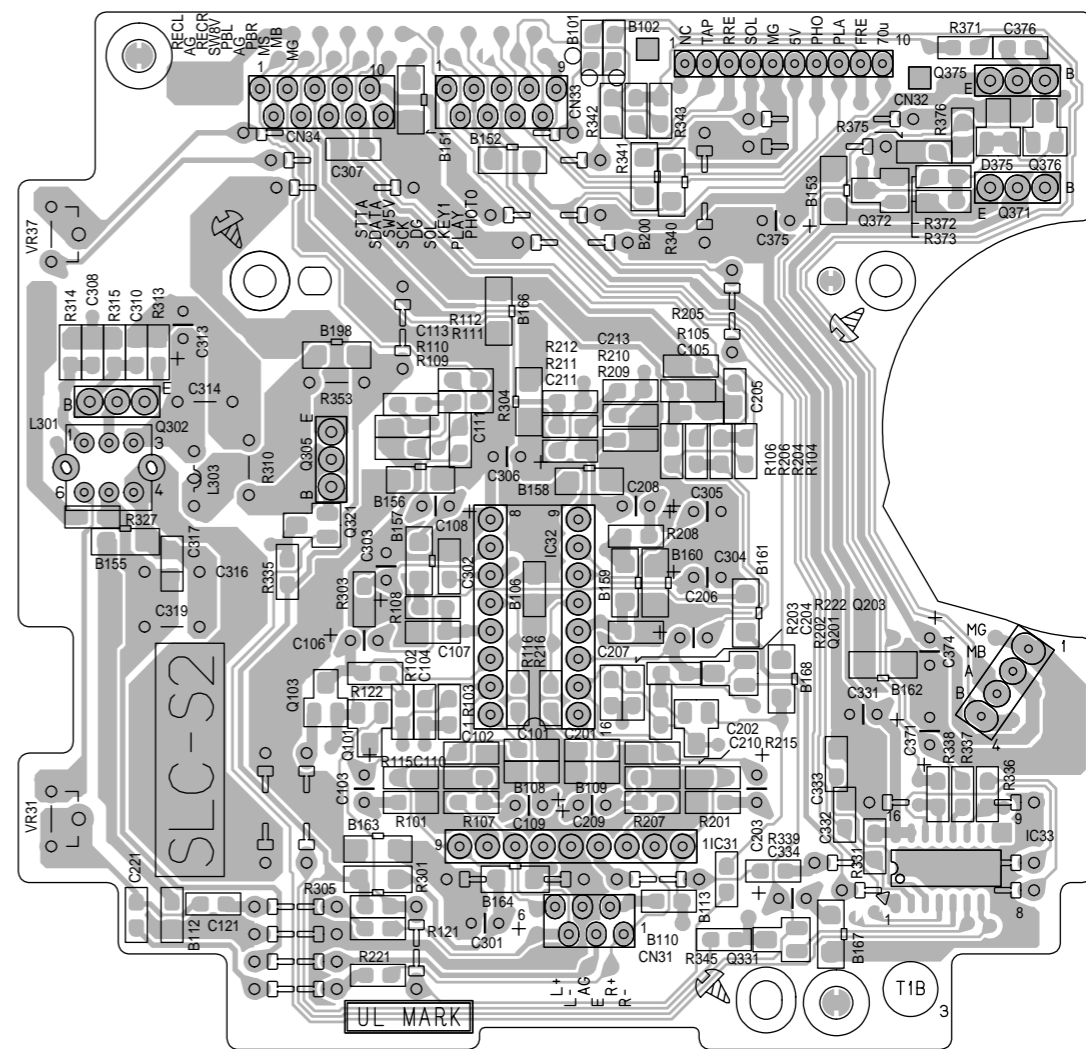
■ Tuner board

Block No. 04



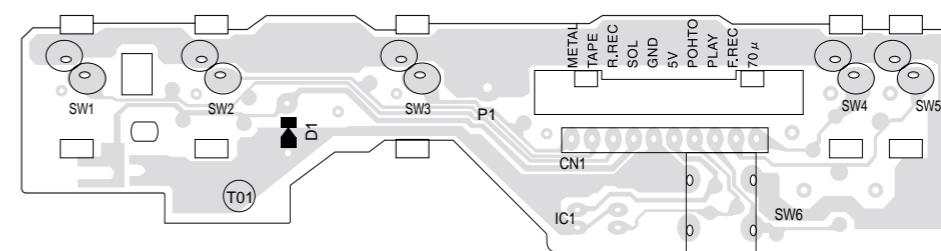
■ Head amplifier board

Block No. 05



■ Cassett switch board

Block No. 06



<<MEMO>>