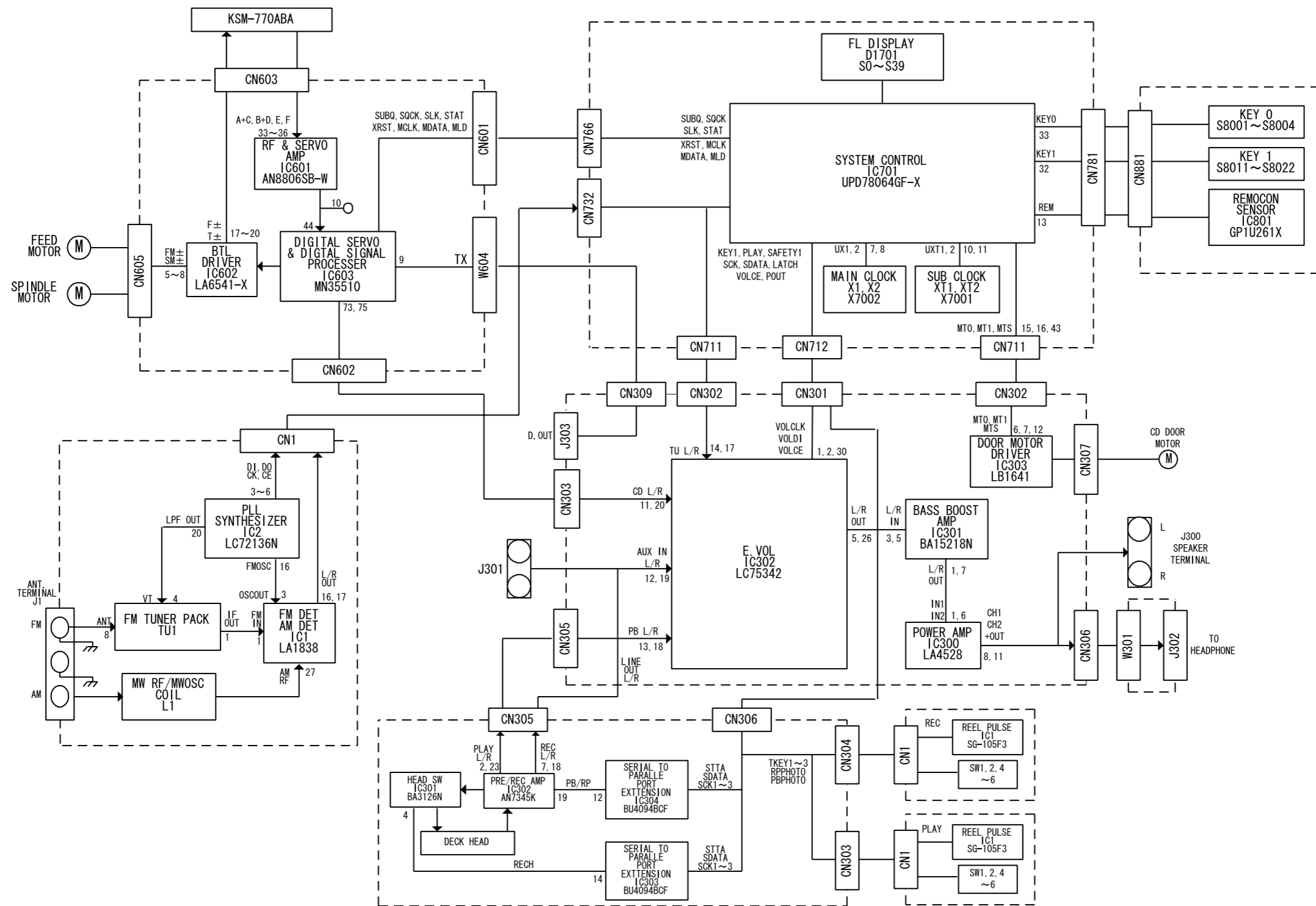
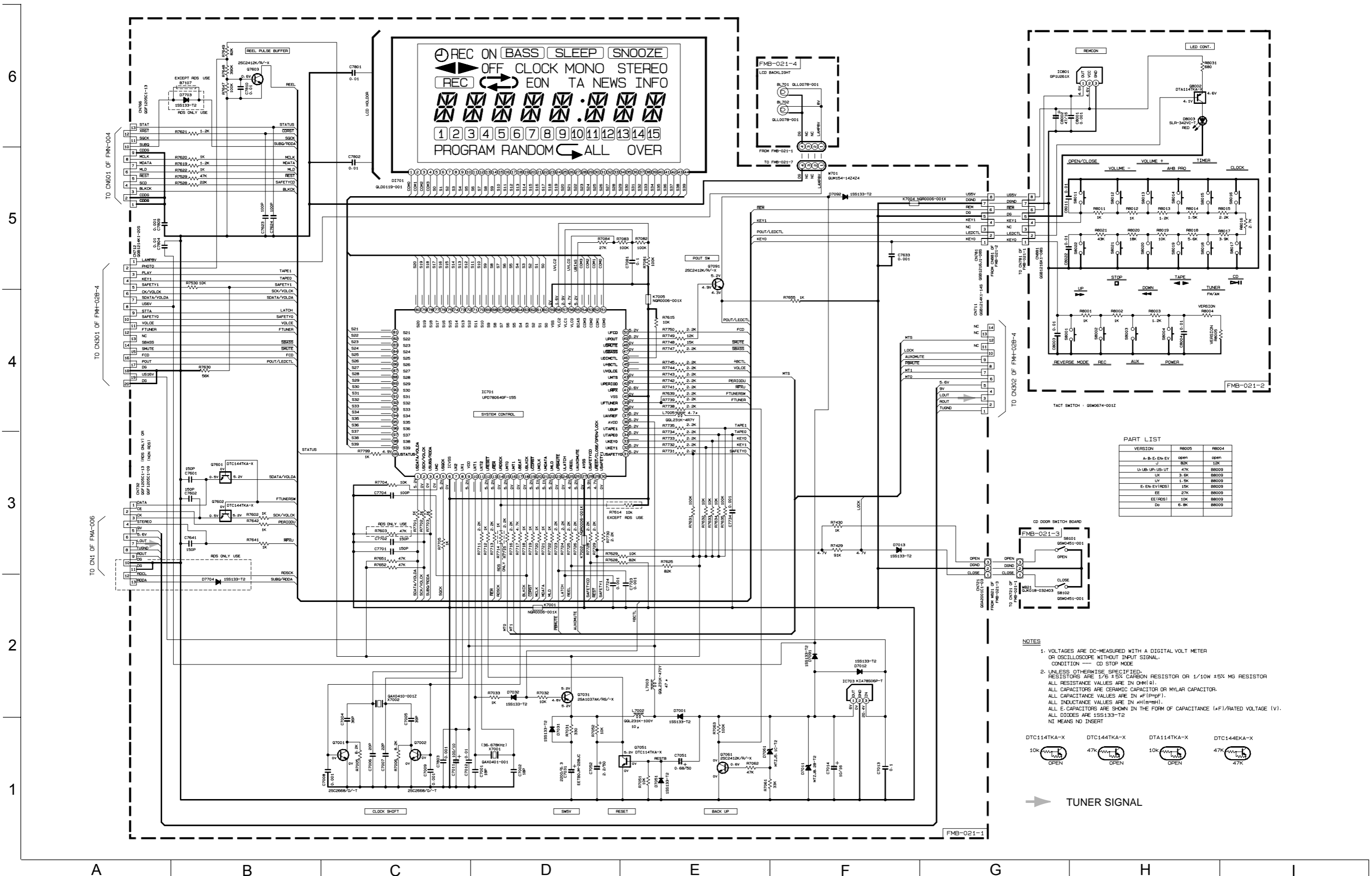


# Block diagram



# Standard schematic diagrams

## ■ CPU & LCD driver circuit (UX-V10)



**PART LIST**

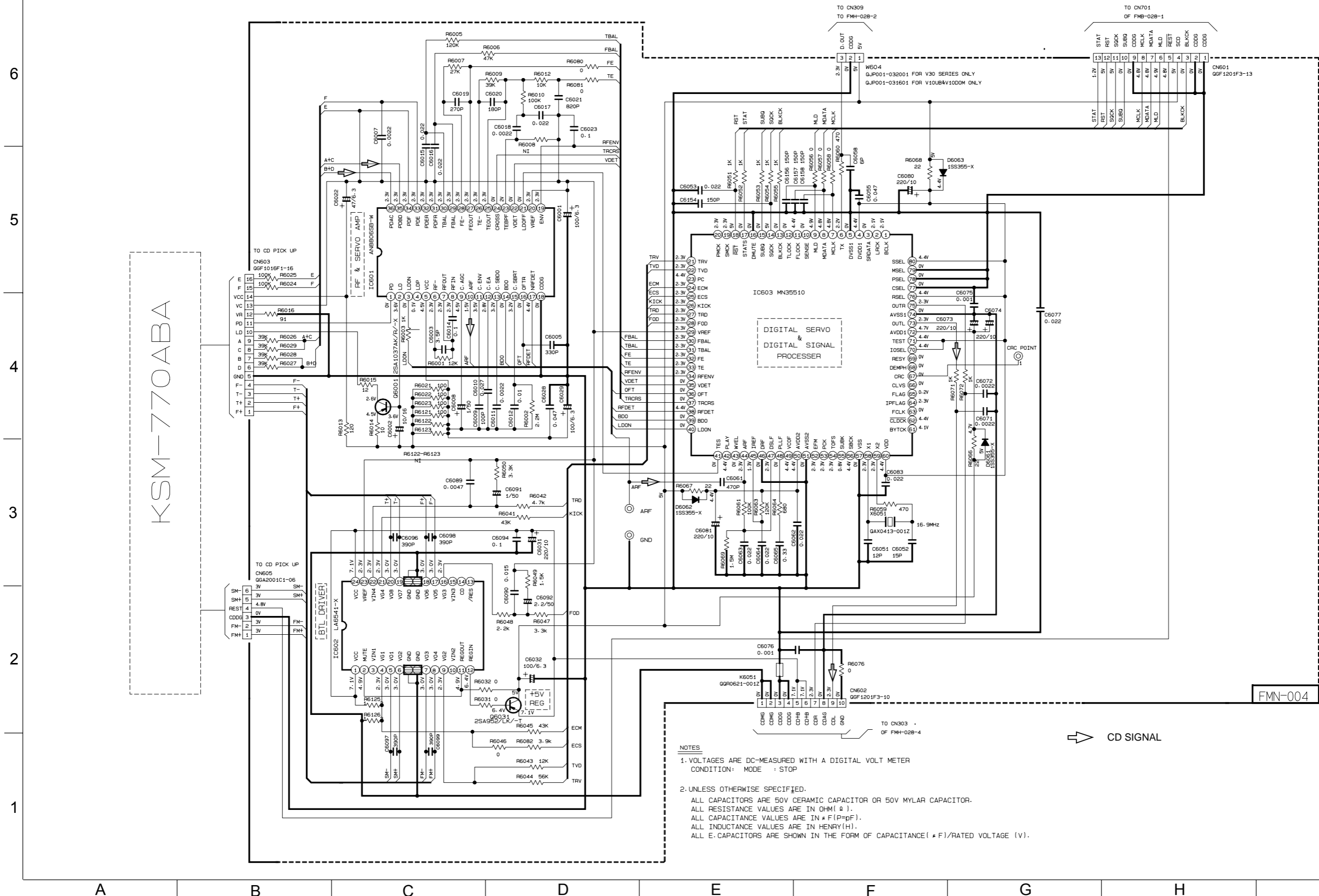
VERSION	R8005	R8004
A-B-E-EN-EV	open	open
J	82K	12K
U-LB-UP-UB-UT	47K	R8009
UX	1K	R8003
UY	1.5K	R8002
E-EN-EV(RDS)	15K	R8009
EE	27K	R8009
EE(RDS)	10K	R8009
Do	6.8K	R8009

- 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 1/6 ±5% CARBON RESISTOR OR 1/10W ±5% MG RESISTOR  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN #F(#PF).  
ALL INDUCTANCE VALUES ARE IN #H(#MH).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).  
ALL DIODES ARE 1SS133-T2  
NI MEANS NO INSERT



➔ TUNER SIGNAL

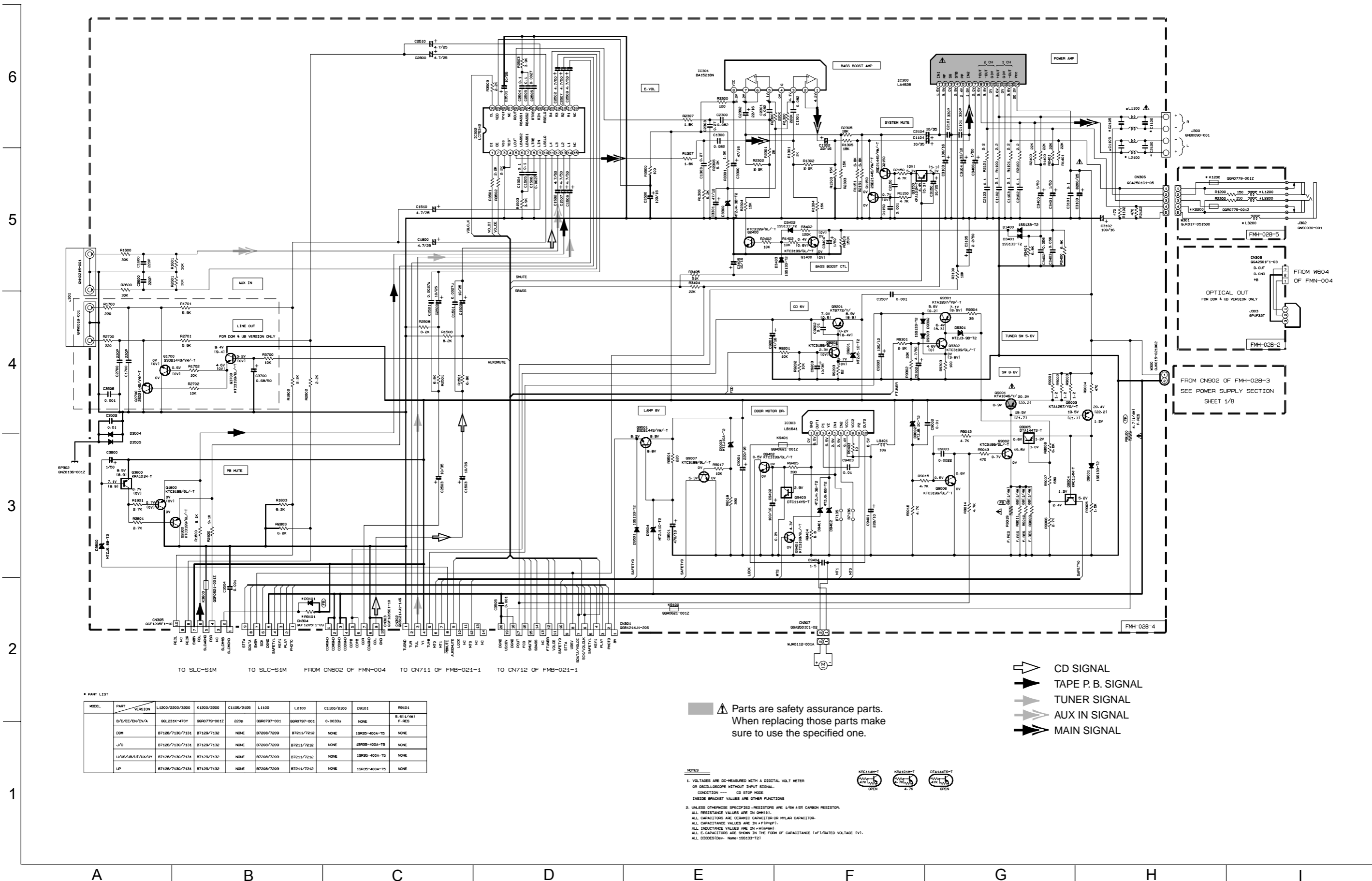
CD servo circuit (UX-V10)



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

➔ CD SIGNAL

Power amplifier circuit (UX-V10)



\* PART LIST

MODEL	PART	VERSION	L100/200/300	R100/200	C100/2100	L1100	L2100	C1100/2100	D9101	R9101
B/E/EE/EN/EA	00L231K-470Y	090779-002	2006	090797-001	090797-001	0.0033u	NONE	NONE	5.61Z/4W F-RES	
DOM	87128/7130/7131	87128/7132	NONE	87208/7209	87211/7212	NONE	19K95-400A-T5	NONE		
J/C	87128/7130/7131	87128/7132	NONE	87208/7209	87211/7212	NONE	19K95-400A-T5	NONE		
U/A/S/UB/UT/U/A/UY	87128/7130/7131	87128/7132	NONE	87208/7209	87211/7212	NONE	19K95-400A-T5	NONE		
LP	87128/7130/7131	87128/7132	NONE	87208/7209	87211/7212	NONE	19K95-400A-T5	NONE		

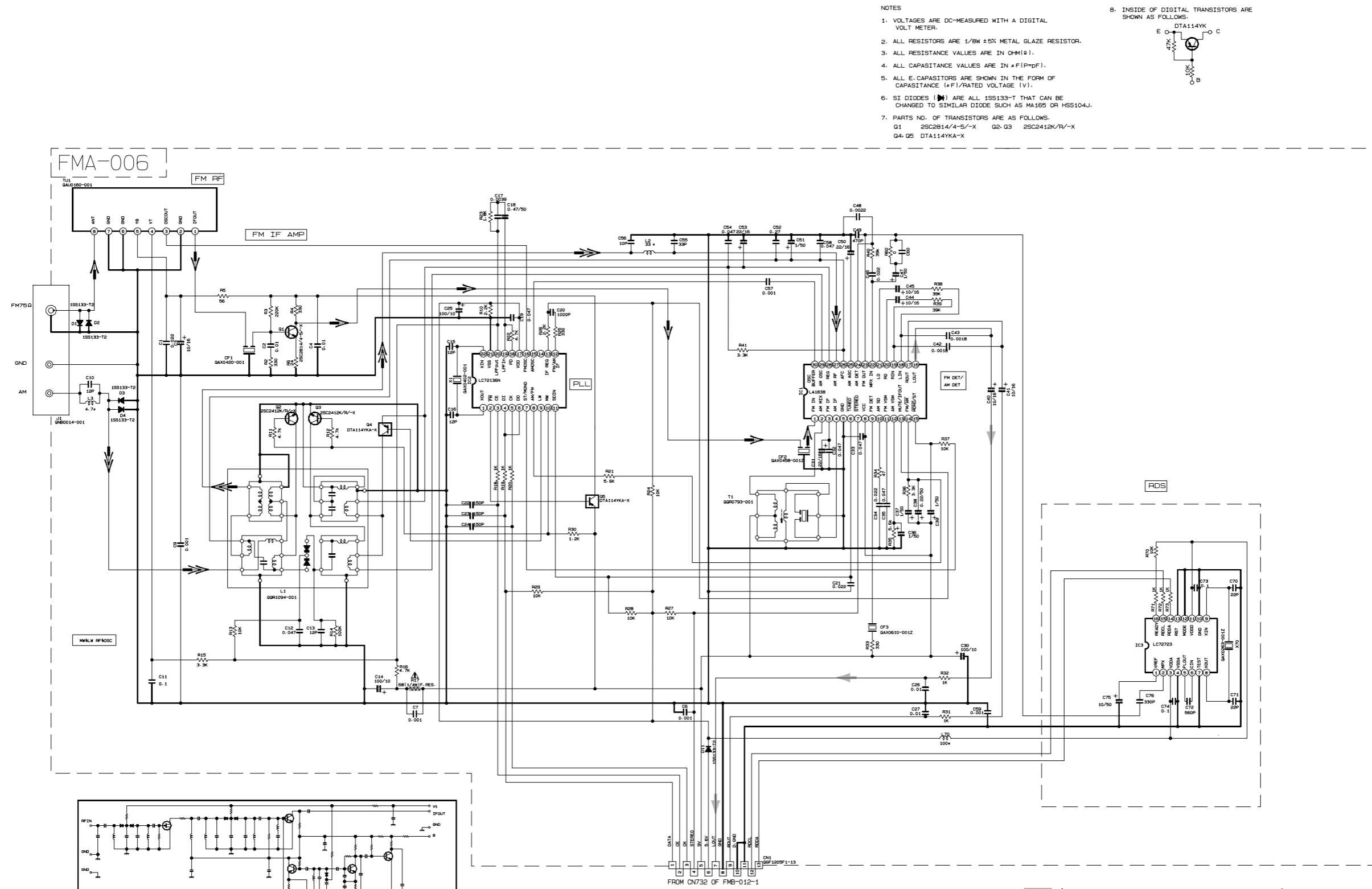
- CD SIGNAL
- TAPE P.B. SIGNAL
- TUNER SIGNAL
- AUX IN SIGNAL
- MAIN SIGNAL

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

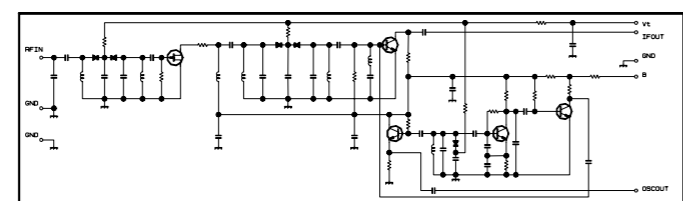
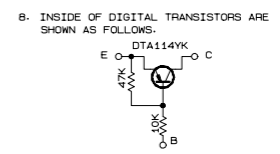
NOTES  
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
 CONDITION: — CD STOP MODE  
 INSIDE BRACKET VALUES ARE OTHER FUNCTIONS  
 2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/4W ± 5% CARBON RESISTOR.  
 ALL RESISTANCE VALUES ARE IN OHM(Ω).  
 ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
 ALL CAPACITANCE VALUES ARE IN P(F)P(F).  
 ALL INDUCTANCE VALUES ARE IN M(H)M(H).  
 ALL S-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).  
 ALL DIODES(DiV, Name: 1S5133-12)

■ Tuner circuit (UX-V10 B/E/EN)

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 pF(PpF).
  5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (±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 DTA114YKA-X



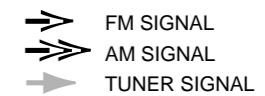
CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1	FM NO SIGNAL	3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	0.1	0	0.9	7.8	7.8	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.5	3.5	3.6	3.6	2.7	
	FM 60dB STEREO	3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	4.3	0	0.9	7.8	7.8	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.6	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	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 E C B
FM 87.5MHz NO SIGNAL	0 7.1 0.85 8.9 8.8 0	
AM 528kHz NO SIGNAL	0 0 0 9.0 0 8.9	

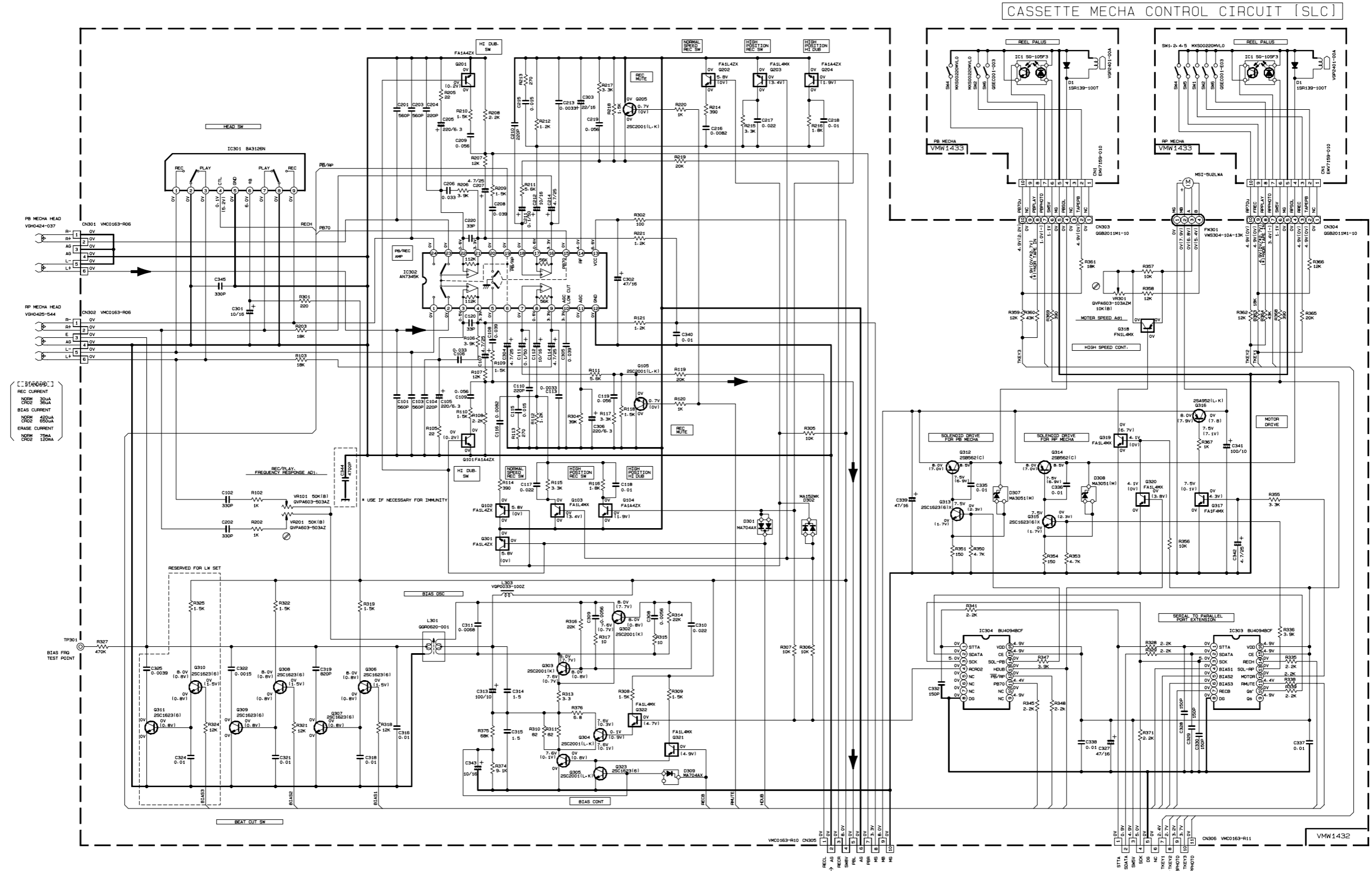
Tr. NO.	Q2	Q3	Q4
PIN NO.	E C B E C B E C B		
AM 528kHz NO SIGNAL	0 0 0.7 0 0 0.7 0 3.6 0.7		
AM 144kHz NO SIGNAL	0 0 0.3 0 0.3 0.3 3.6 3.6 3.6		

⚠ 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

■ Cassette mecha control circuit (UX-V10)



- [[STANDARD]]  
 REC CURRENT  
 NORM 300A  
 CROD 300A  
 BIAS CURRENT  
 NORM 4800A  
 CROD 4800A  
 ERASE CURRENT  
 NORM 1500A  
 CROD 1500A

NOTES  
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. ( ) IS INVERT MODE  
 2. UNLESS OTHERWISE SPECIFIED  
 ALL RESISTANCE VALUES ARE IN OHM(Ω).  
 ALL CAPACITANCE VALUES ARE IN nF(nPpF).  
 ALL CAPACITANCE VALUES ARE IN μF(μPpF).  
 ALL INDUCTANCE VALUES ARE IN mH(mPpH).  
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).  
 PLYPROPYLENE CAPACITOR

TABLE 1. DIGITAL TR LIST

PART. NO.	CONSTRUCTION	REF. NO.	SYMBOL	REF. NO.
FA144X	47K	Q318	FA144X	Q317
FA142Z	10K	Q101/Q201	FA144X	Q103/Q203
FA142Z	47K	Q104/Q204	FA144X	Q319
FA142Z	47K	Q102/Q202	FA144X	Q320/Q321/Q322
FA142Z	47K	Q301		

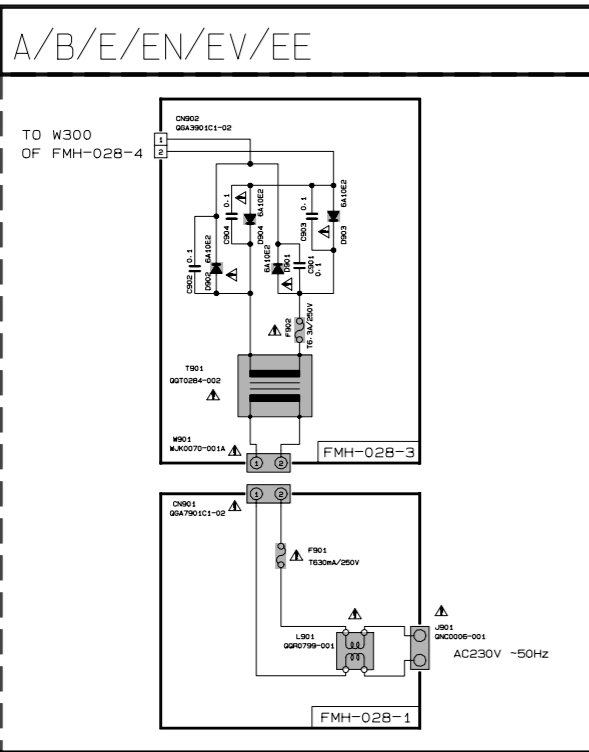
FROM PRE-AMP CIRCUIT  
 FROM CN305 OF FMH-028-4

FROM MICOM THRU MAIN BOARD  
 FROM CN304 OF FMH-028-4

TEPE P.B. SIGNAL

■ Power supply circuit (UX-V10)

POWER SUPPLY BLOCK

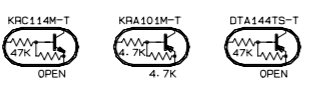


EXPLANATION OF OVERALL OF SCHEMATIC		
MODEL : FS-V10/UX-V10/UX-V20R		
SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/8	FS-V10/UX-V10/UX-V20R	. PRIMARY WITH MAINS TRANSFORMER
2/8	FS-V10/UX-V10/UX-V20R	. DC REGULATORS/AUDIO OUTPUT . EXTERNAL INPUT. SOURCE SELECTOR SWITCH
3/8	FS-V10/UX-V10/UX-V20R	. LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL
4/8	FS-V10/UX-V10/UX-V20R	. CD SERVO AND CD SYSTEM CONTROL . CD CHANGER MECHANISM CONTROL
5/8	FS-V10/UX-V10/UX-V20R	. TAPE DECK MECHANISM CONTROL . TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS
6/8	FS-V10/UX-V10	. TUNER RF/IF/FM MULTIPLEX (ONLY FOR J, C, U, UP, UR, US, UT, UV, UX, UY, A, DDM)
7/8	UX-V10/UX-V20R	. TUNER RF/IF/FM MULTIPLEX (ONLY FOR B, E, EN, EV)
8/8	UX-V10/UX-V20R	. TUNER RF/IF/FM MULTIPLEX (ONLY FOR EE)

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

VERSION CODES	
J	U.S.A.
B	U.K.
E	CONTINENTAL EUROPE
EE	RUSSIA
EN	NORDIC COUNTRIES
EV	EASTERN EUROPE
A	AUSTRALIA
UP	KOREA
US	SINGAPORE
UT	TAIWAN
UX	SAUDI ARABIA
UY	ARGENTINA
UB	HONG KONG
U	UNIVERSIAL EXCEPT ALL OF ABOVE

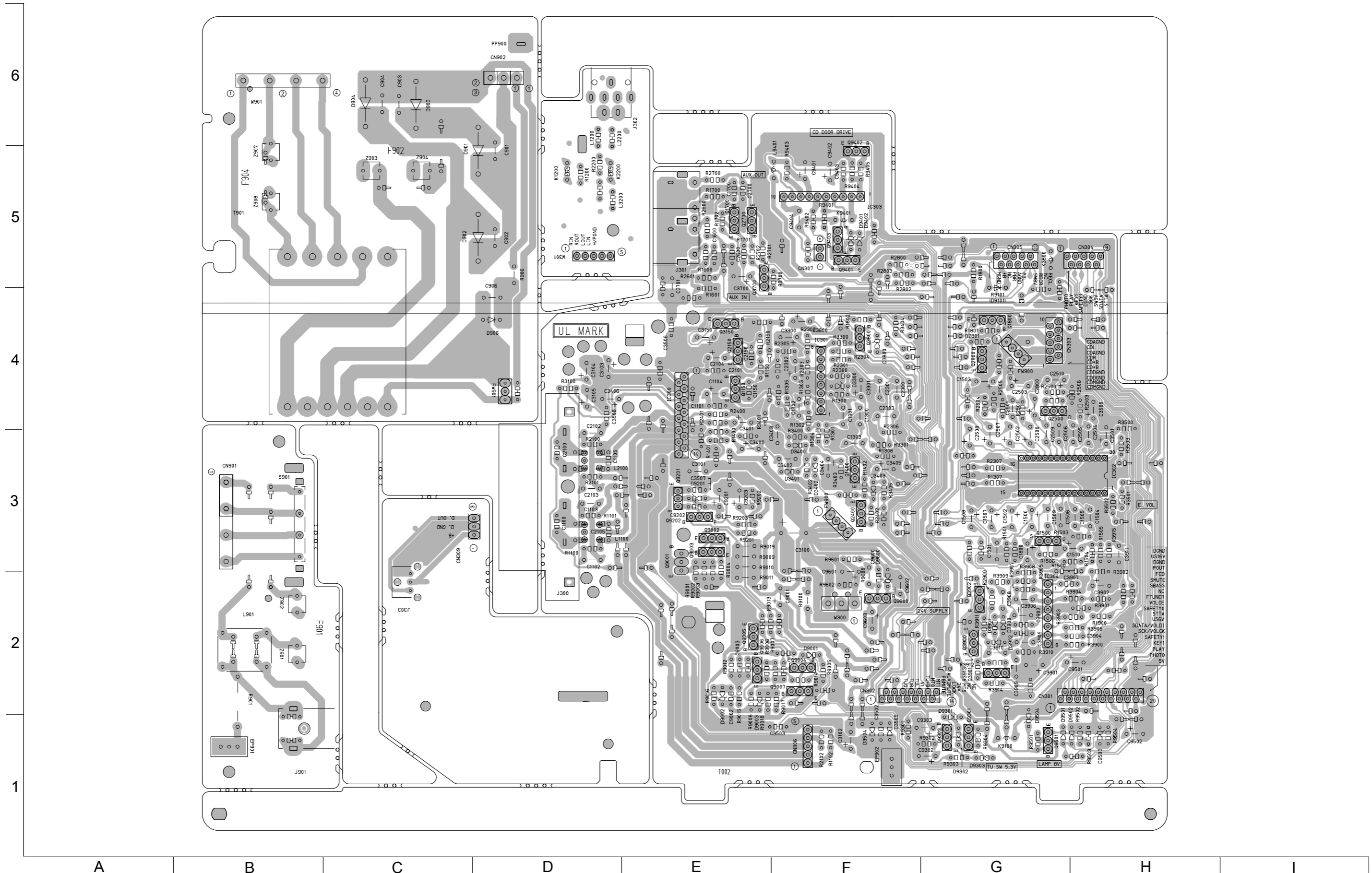
- NOTES**
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION --- CD STOP MODE  
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
  - UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN #F(#=pF).  
ALL INDUCTANCE VALUES ARE IN #H(#=mH).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).  
ALL DIODES(Dev. Name: 1SS133-T2)



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

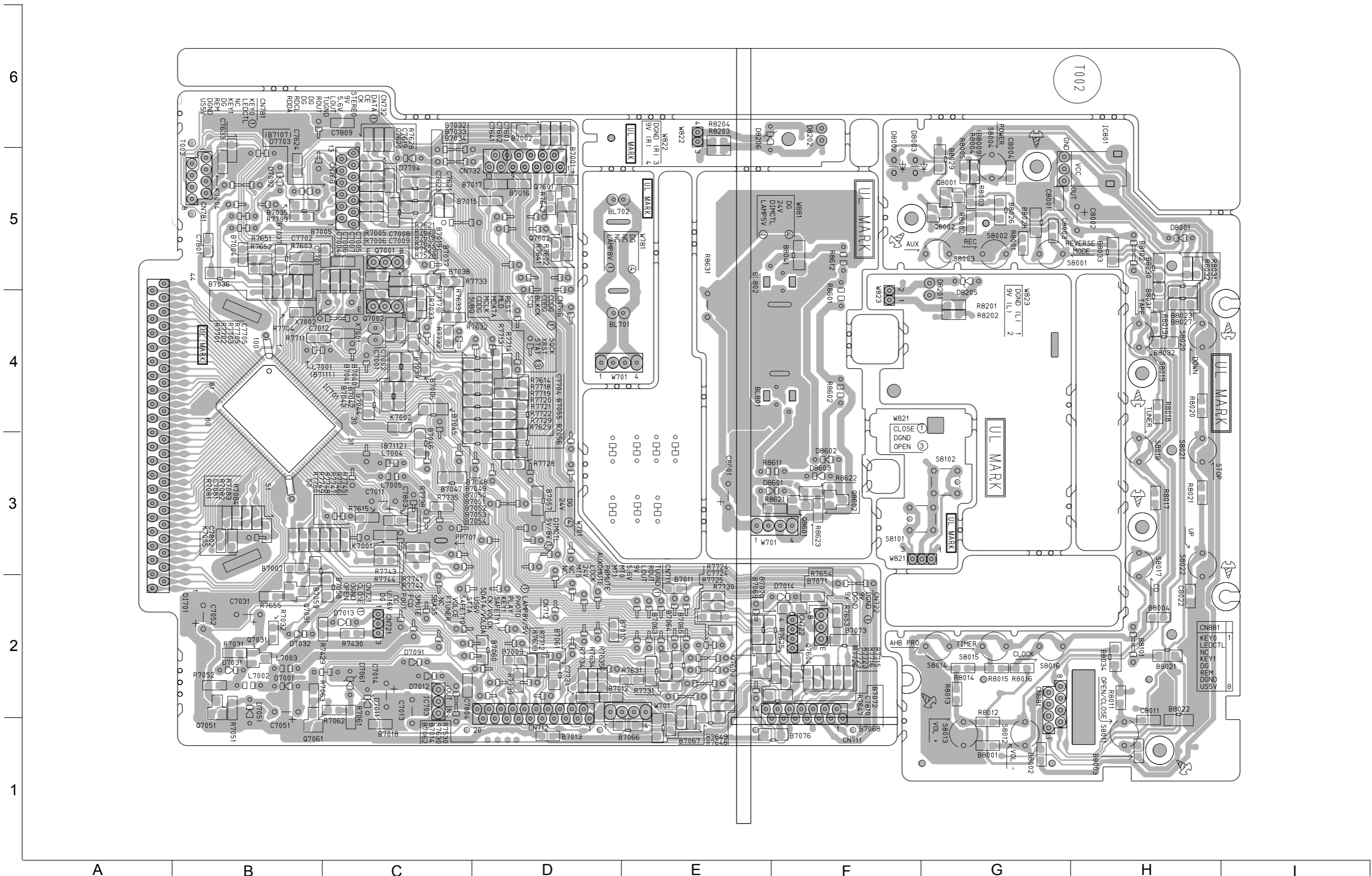
# Printed circuit boards

■ Main board

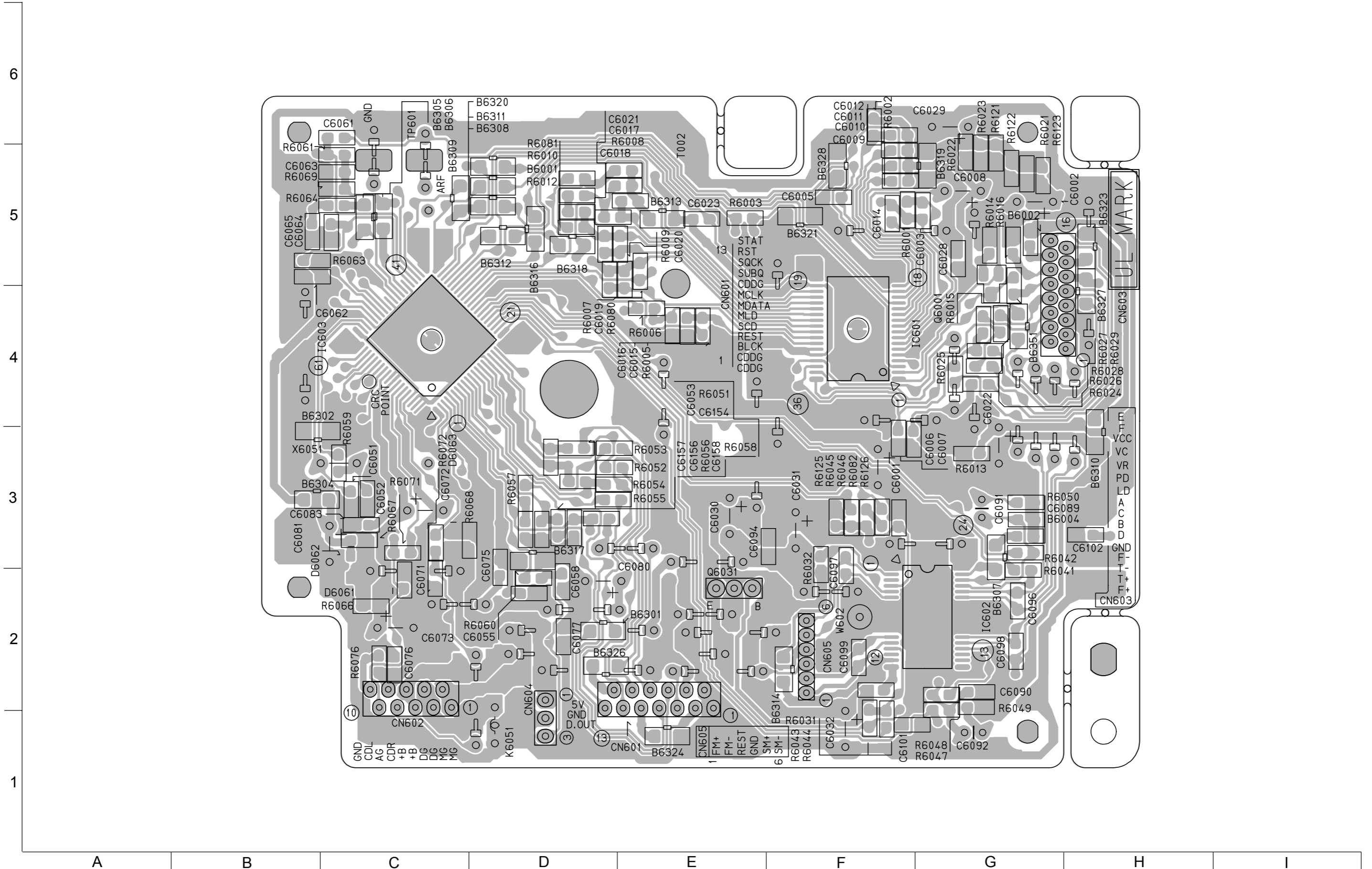




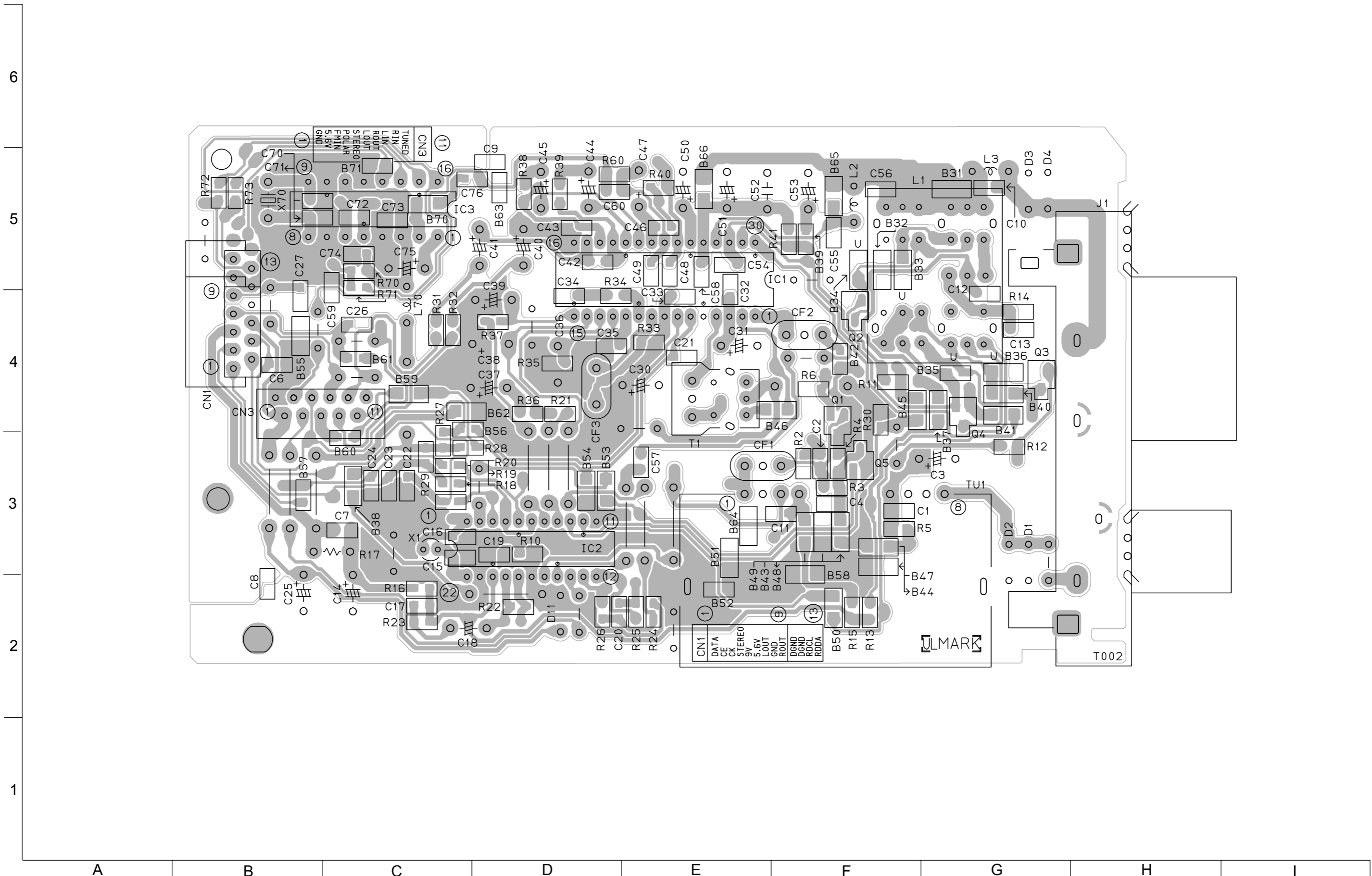
■ Micon P. C. board



CD board



■ Tuner P. W. B



<<MEMO>>