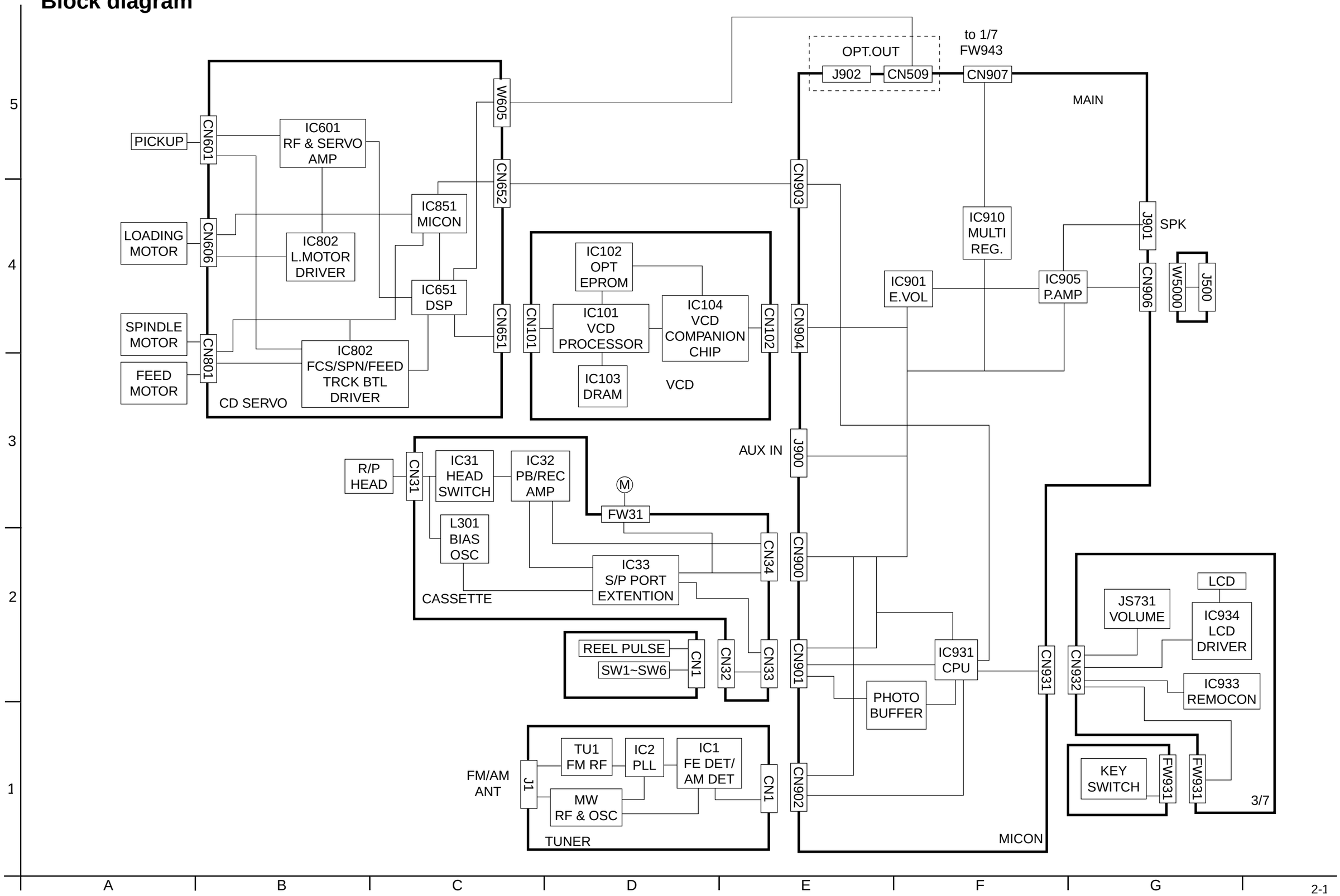
Block diagram

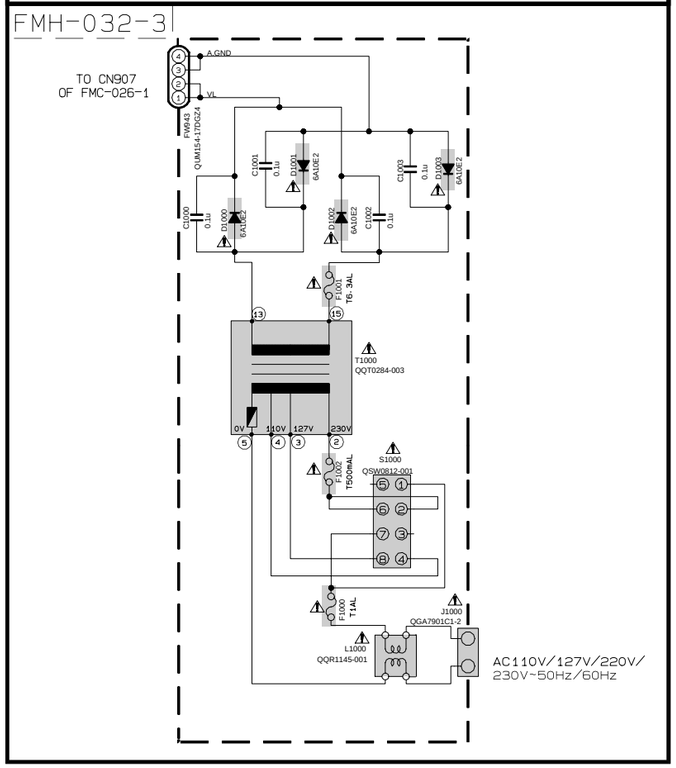


Standard schematic diagrams

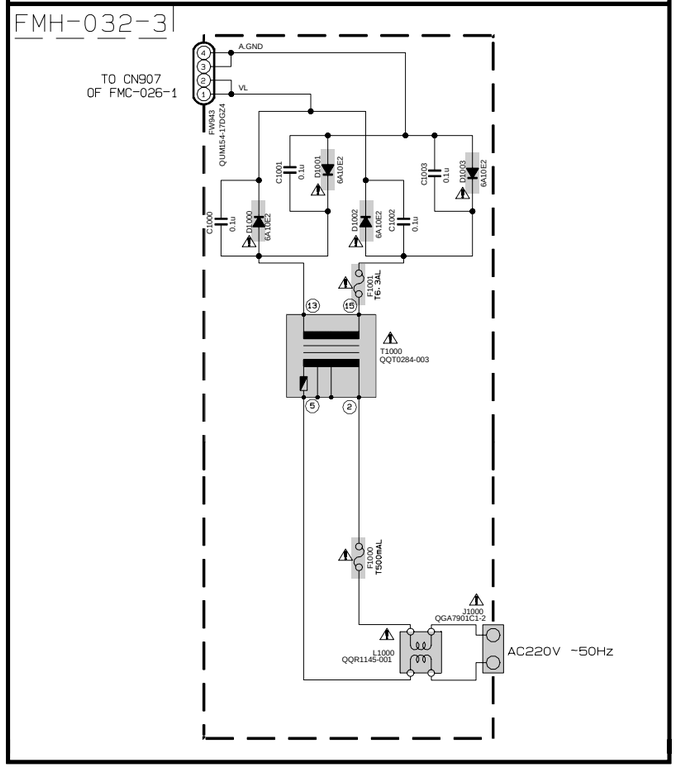
■ Trans section

POWER SUPPLY BLOCK

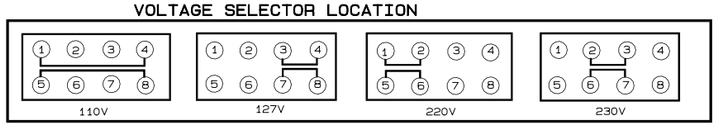
UT/US/UB/UX/UN



UF



VOLTAGE SELECTOR LOCATION



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 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   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.

EXPLANATION OF OVERALL OF SCHEMATIC

MODEL : UX-P38V

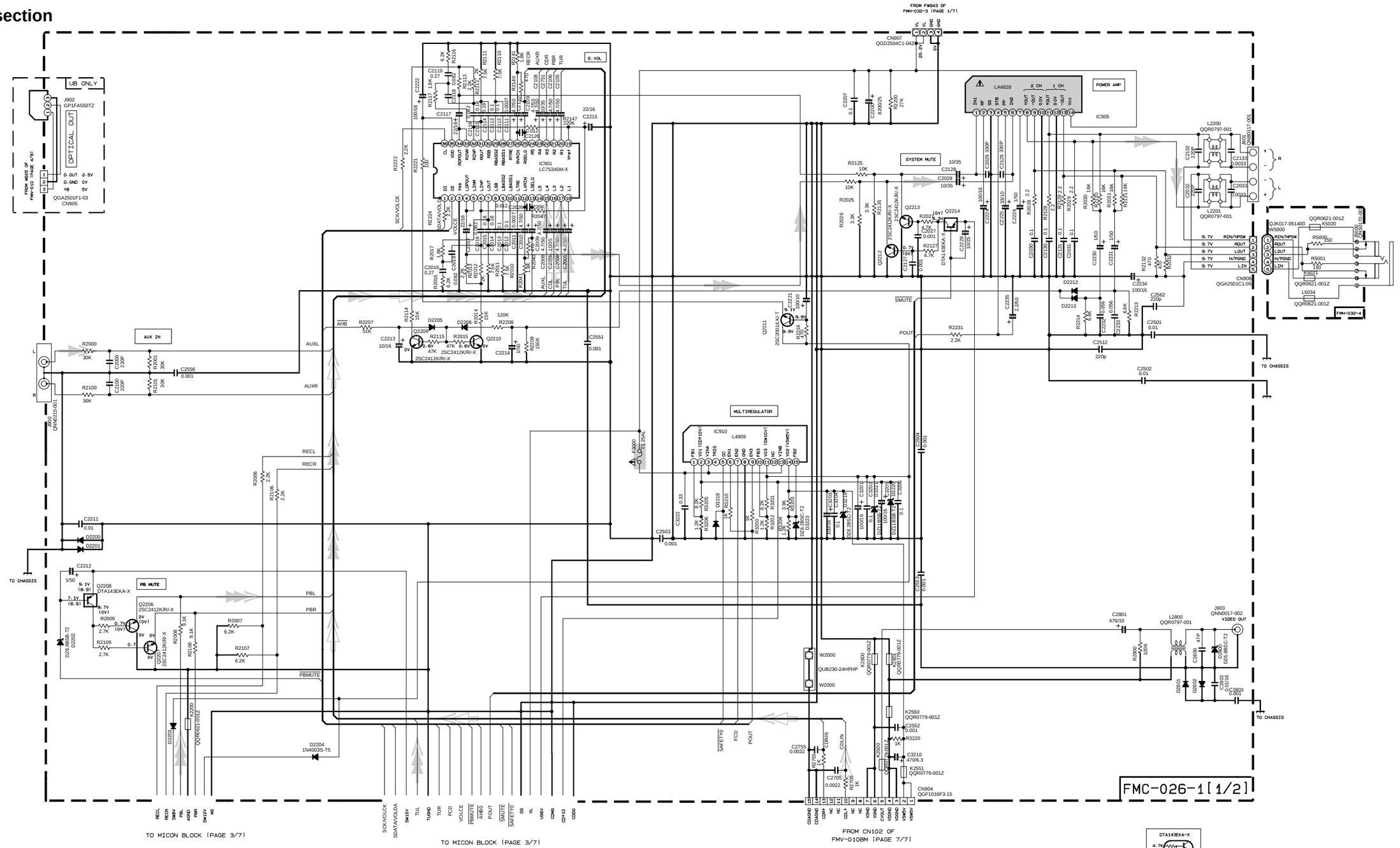
SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/7	UX-P38V	. PRIMARY WITH MAINS TRANSFORMER
2/7	UX-P38V	. DC REGULATOR, AUDIO OUTPUT . EXTERNAL INPUT, SOURCE SELECTOR SWITCH
3/7	UX-P38V	. LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL
4/7	UX-P38V	. CD SERVO AND CD SYSTEM CONTROL . CD CHANGER MECHANISM CONTROL
5/7	UX-P38V	. TAPE DECK MECHANISM CONTROL . TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS
6/7	UX-P38V	. TUNER RF/IF/FM MULTIPLEX
7/7	UX-P38V	. VIDEO CONTROL CIRCUIT WITH MP3 FEATURE

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

VERSION CODES

UB : HONG KONG
UF : CHINA
UN : INDONESIA
UT : TAIWAN
UX : SAUDI ARABIA
US : SINGAPORE AND UNIVERSAL
EXCEPT ALL OF ABOVE

■ Main section



1. ALL VALUES ARE MEASUED IN VOLTS ----- CD STOP MODE.

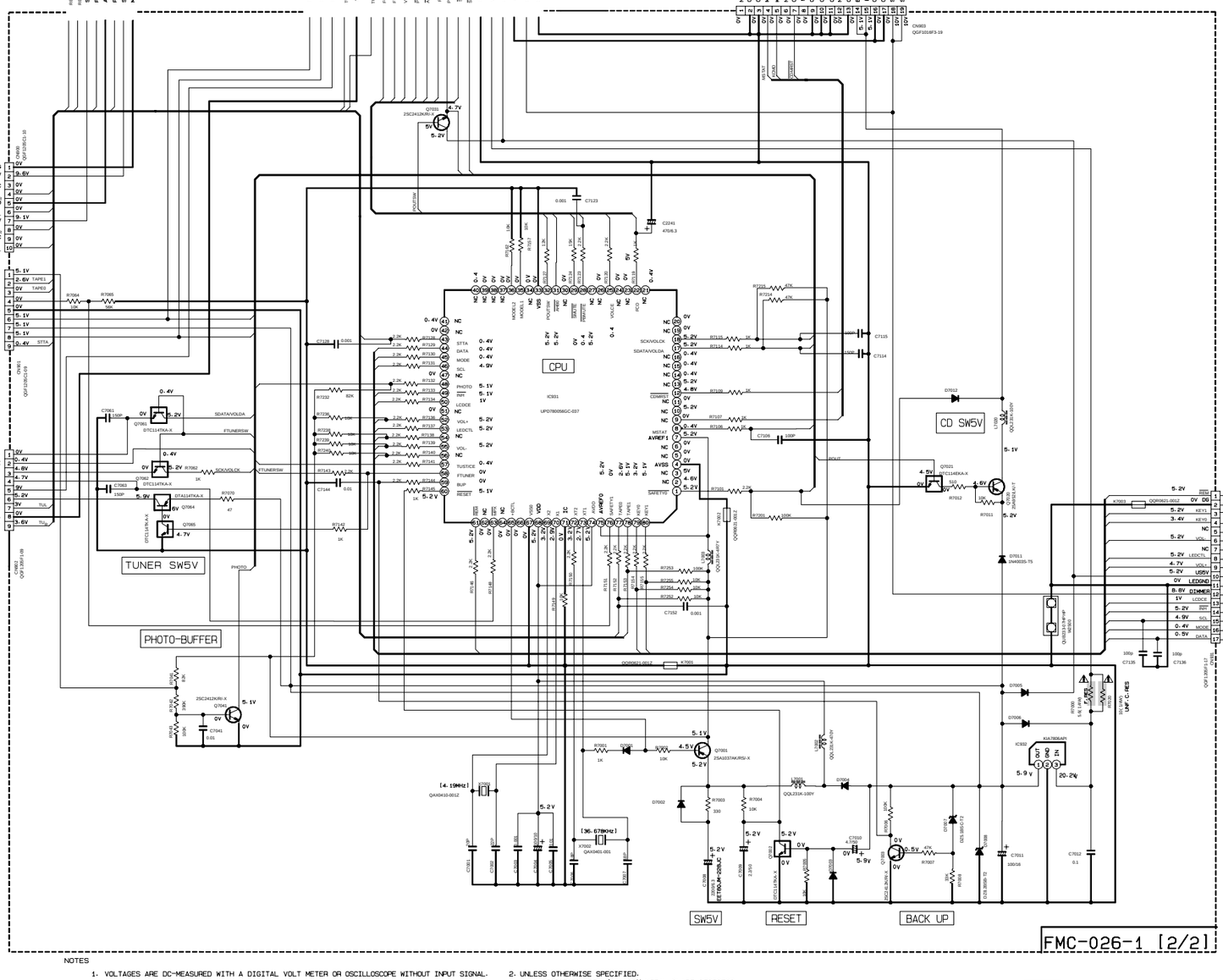
IC \ PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
IC901	5.2	0.4	0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.4	0
IC905	1.2	9.4	0	2.9	2	1.2	1.4	9	9.2	0	9	0	9.2	20.2																								
IC910	1.3	7.8	19.8	0	5.2	0.4	5.1	0	5.2	1.3	9.9	0	19.8	5.3	1.3																					

2. 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 OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE/μF/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133-T2 TYPE UNLESS SPECIFIED

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

MAIN SIGNAL
AUX IN SIGNAL
CD SIGNAL
TUNER SIGNAL
TAPE SIGNAL

■Micon section



DTA114TKA-X	DTC144TKA-X	DTC114TKA-X	DTC114EK-X
10K OPEN	47K OPEN	10K OPEN	10K 10K
Q7064	Q7061/Q7062	Q7002/Q7065	Q7021

* MARK

ITEMS \ VERSION	(UB/UF/UN/UP US/UT/UW)	(UX)	(UY)
D7321 D7322 D7323	ORANGE	ORANGE	ORANGE
R7314 (VERSION)	B/W	B/W	B/W
R7315 (VERSION)	47K	3.6K	1.5K
R7000	4.7(1/4W) F.RES		

ORANGE:QLMP-AL49

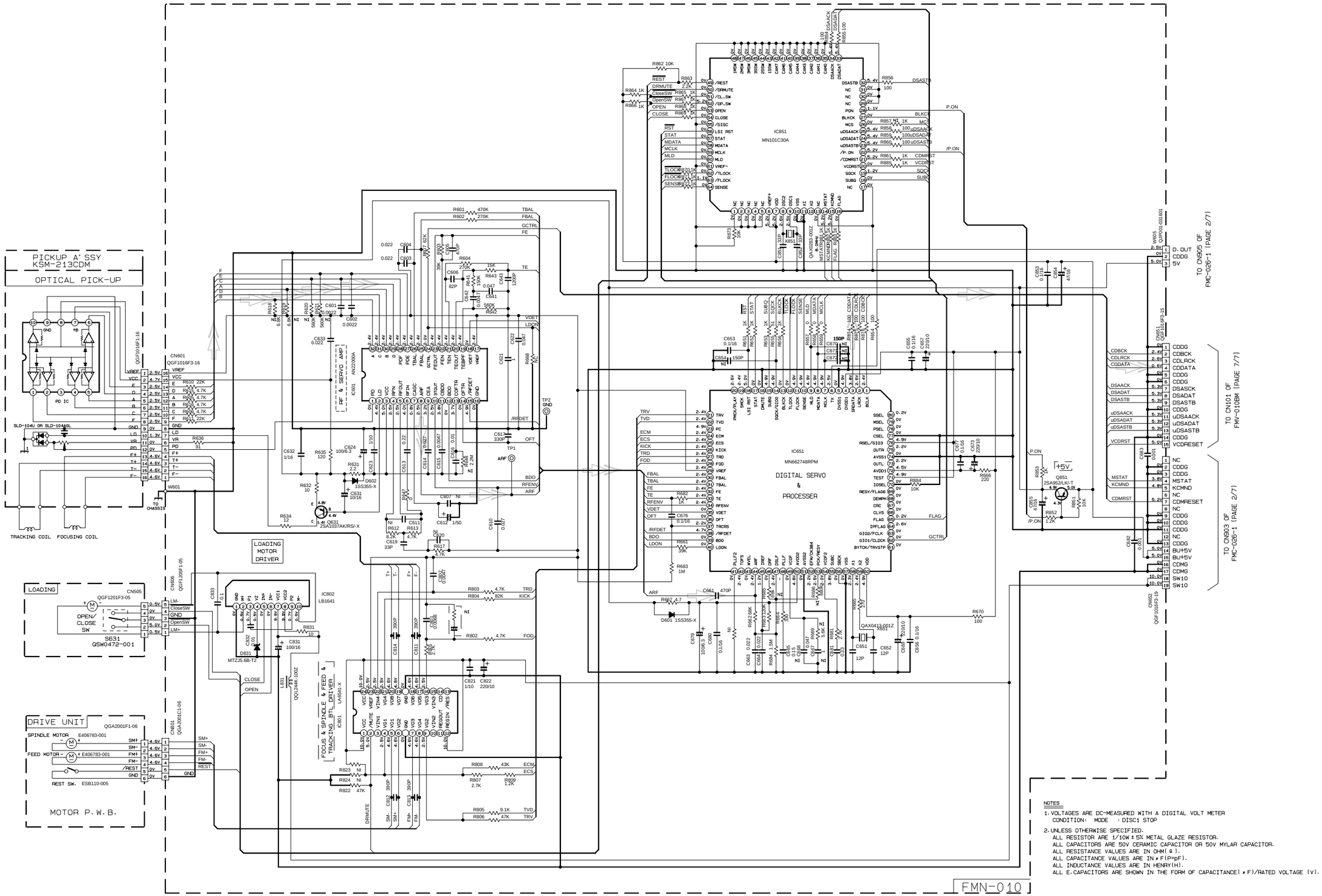
NOTES

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

2. 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 OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN #F(P=pF).
   ALL INDUCTANCE VALUES ARE IN #H(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(#F)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133-T2 TYPE UNLESS SPECIFIED

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

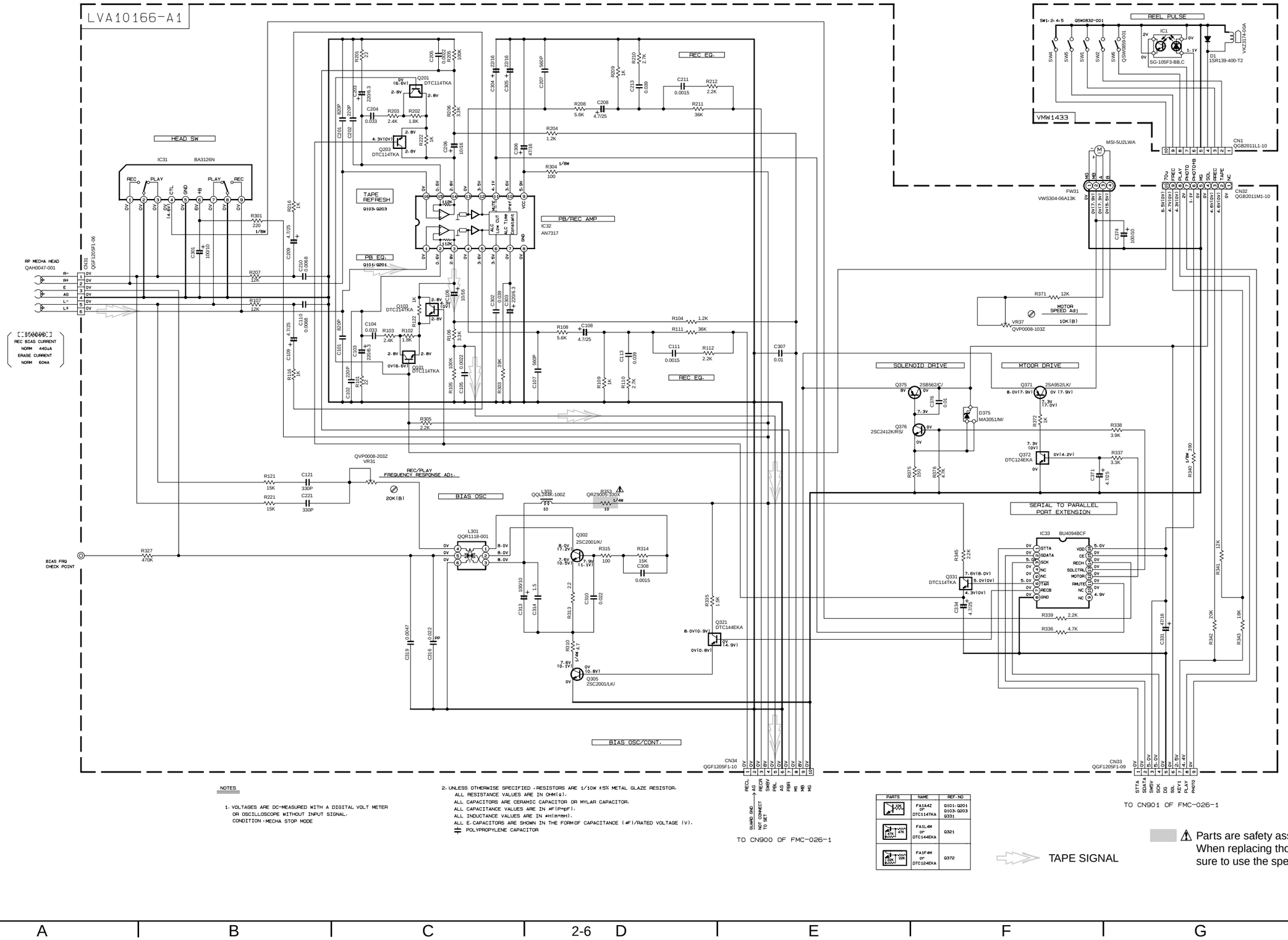
■CD servo section



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

■Cassette section



NOTES

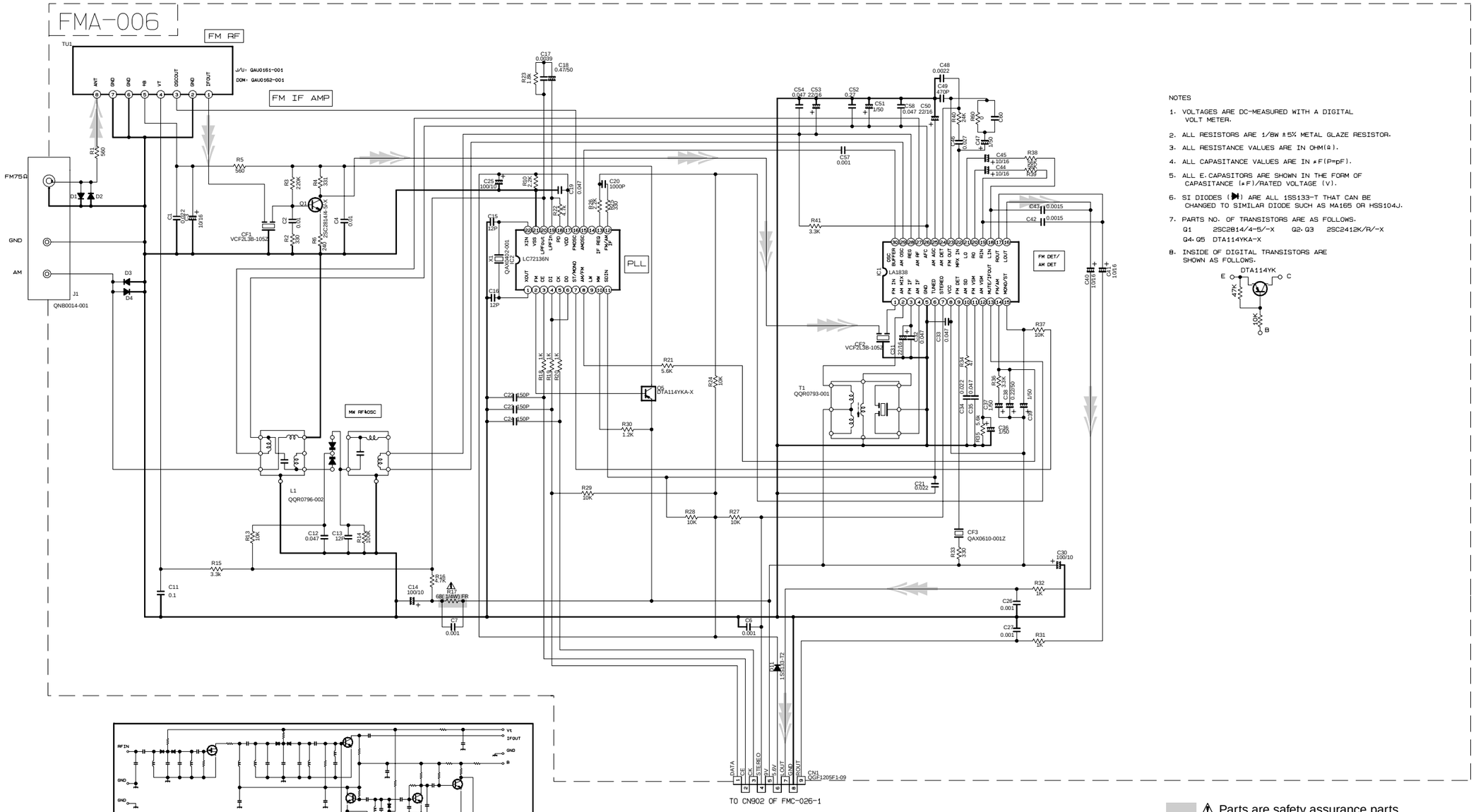
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION : MECHA STOP MODE

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 μF(P=pF). ALL INDUCTANCE VALUES ARE IN μH(m=mH). ALL E.CAPACITORS ARE SHOWN IN THE FORMOF CAPACITANCE (μF)/RATED VOLTAGE (V). POLYPROPYLENE CAPACITOR

PARTS	NAME	REF.NO
10K	FA1A4Z or DTC114TKA	Q101·Q201 Q103·Q203 Q331
47K	FA1L4M or DTC144EKA	Q321
10K	FA1F4M or DTC124EKA	Q372

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

■ Tuner section



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 ㎌(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (㎌)/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
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

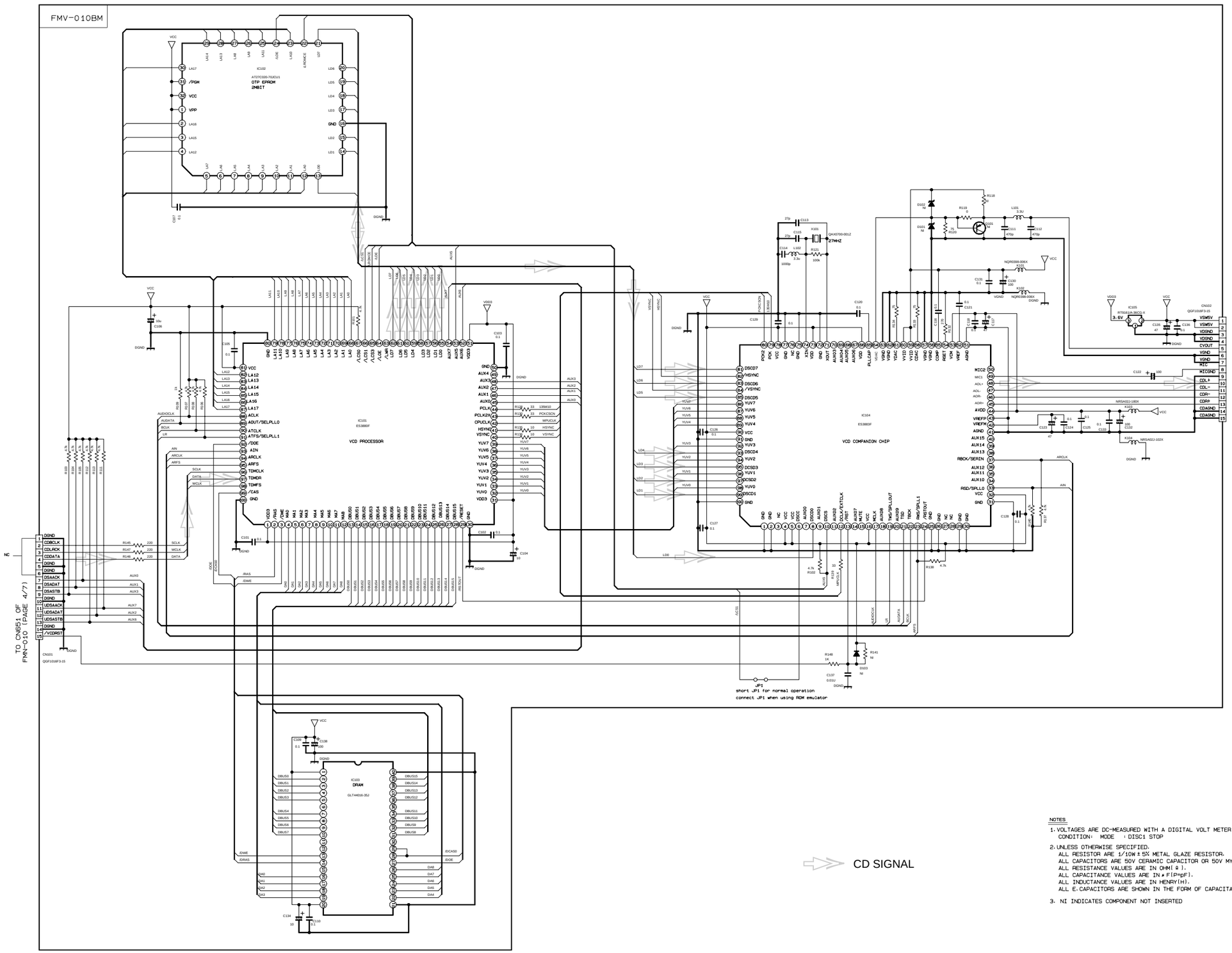
	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1	FM NO SIGNAL	3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	0.1	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.5	3.5	3.6	3.6	2.7
	FM 60dB STEREO	3.6	8.9	3.6	3.6	0	0	5.0	8.9	8.9	1.3	4.3	0	0.9	7.8	7.8	4.3	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
	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 522KHz 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 522KHz 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.

TUNER SIGNAL

■VCD control section

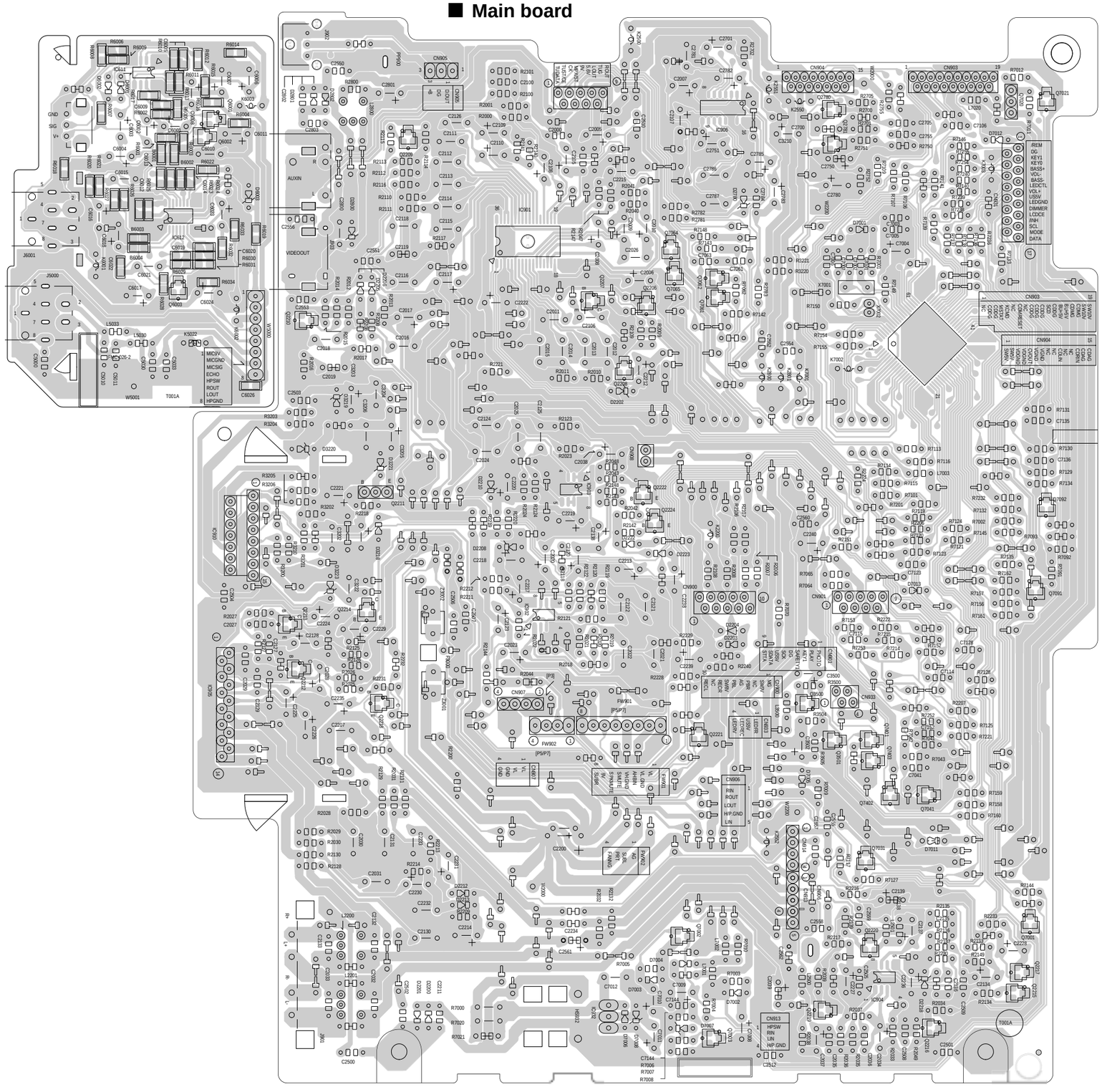


NOTES

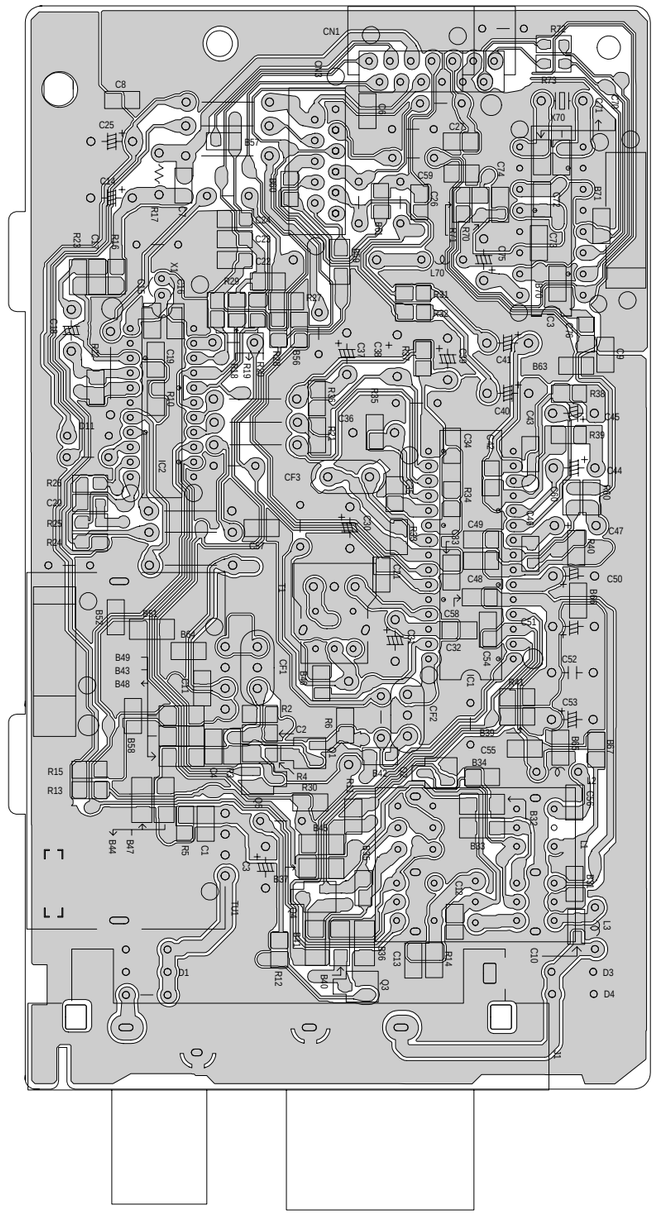
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
   CONDITION: MODE : DISC1 STOP
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTOR ARE 1/10W ± 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN HENRY(H).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
3. NI INDICATES COMPONENT NOT INSERTED

Printed circuit boards

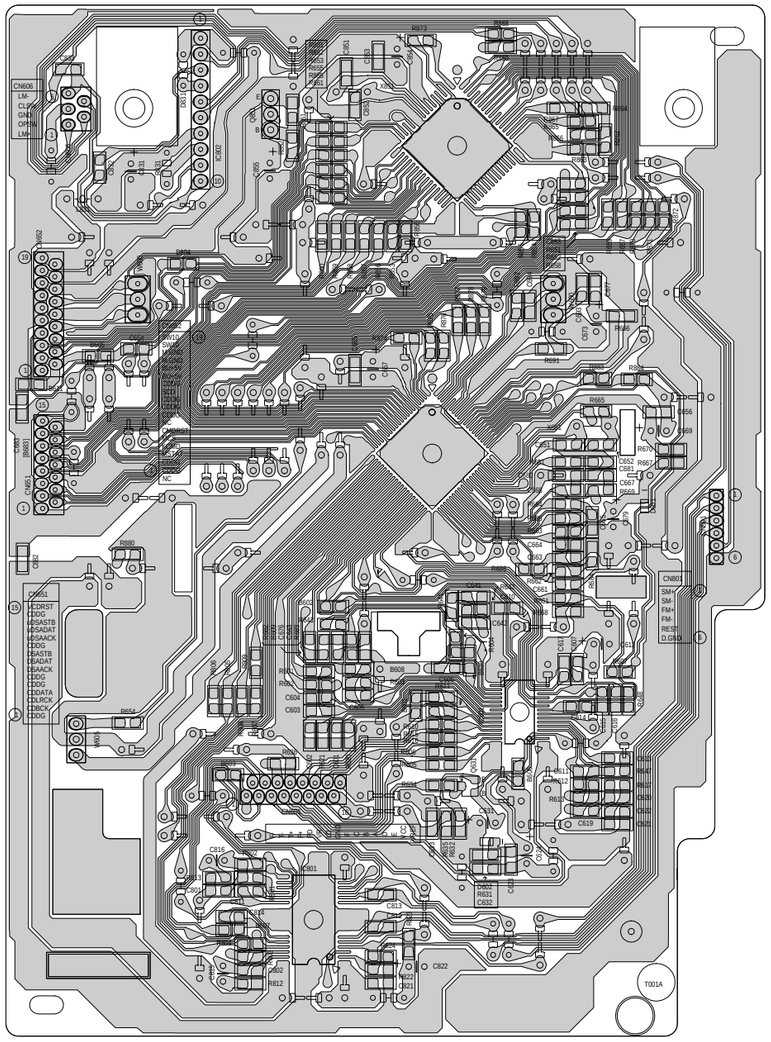
■ Main board



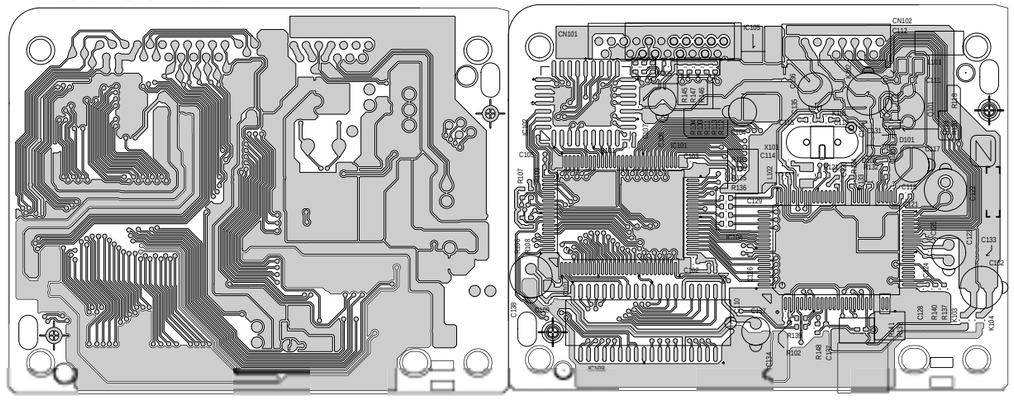
■ Tuner board



■ Micon board



■ VCD board



■ Front board / Trans board