

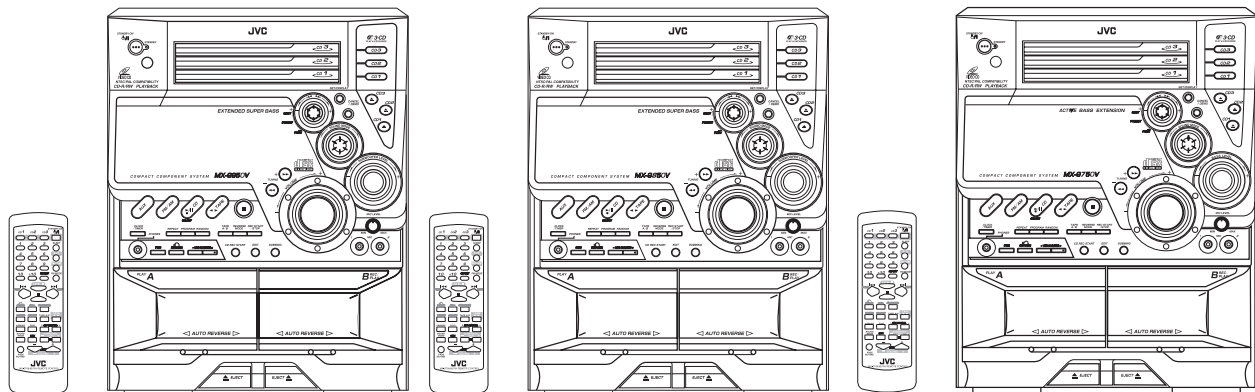
# JVC

## SCHEMATIC DIAGRAMS

### COMPACT COMPONENT SYSTEM

## MX-G950V/MX-G880V MX-G850V/MX-G750V

CD-ROM No.SML200207



CA-MXG950V

CA-MXG850V  
CA-MXG880V

CA-MXG750V



#### MX-G950V/MX-G850V

##### Area Suffix

U-----Other Areas  
UN-----Asean  
UX-----Saudi Arabia

#### MX-G880V

##### Area Suffix

UN-----Asean

#### MX-G750V

##### Area Suffix

UN-----Asean  
US-----Singapore  
UX-----Saudi Arabia

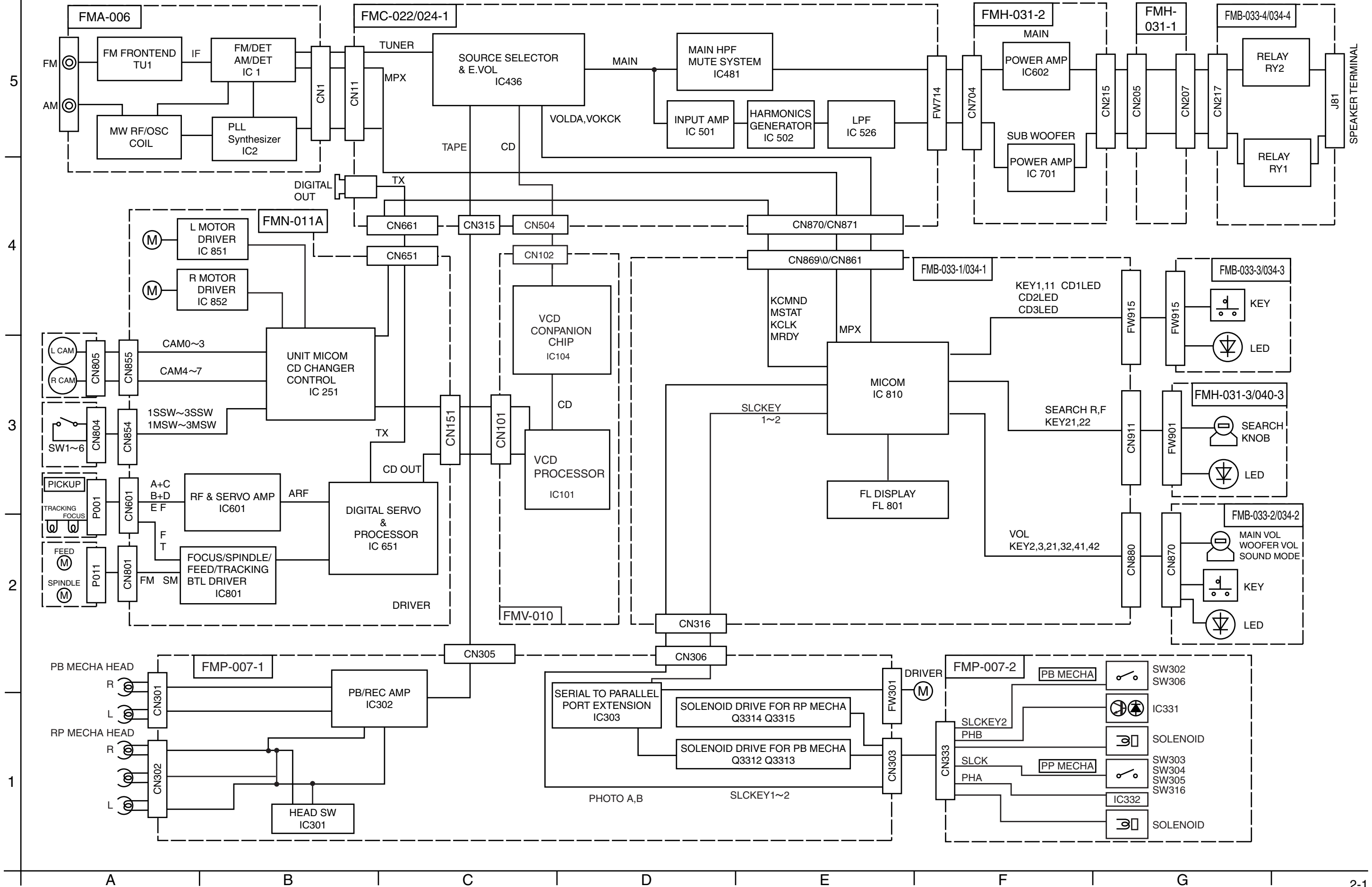
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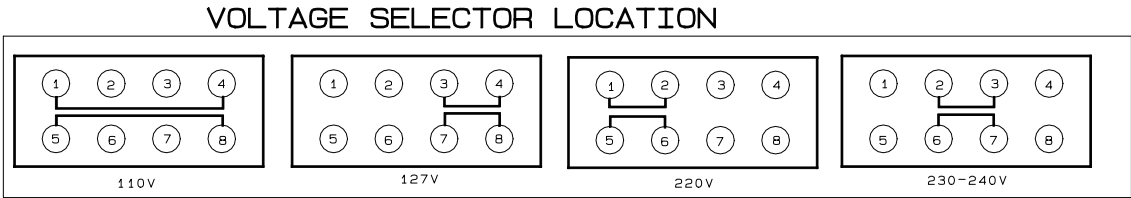
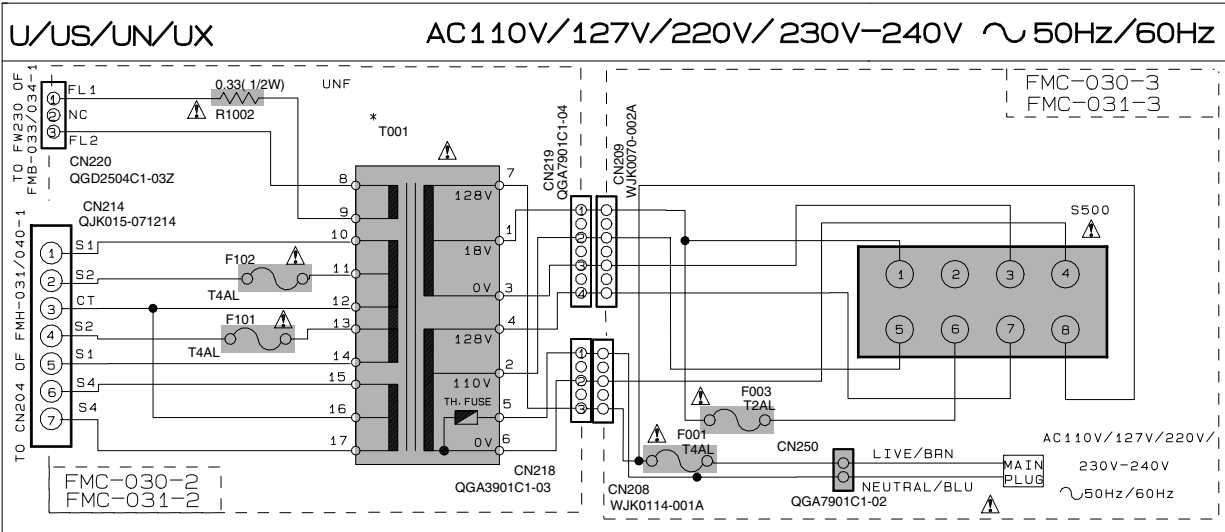
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (⬤) and ICP (●) or identified by the "△" mark nearby are critical for safety.

(This regulation does not correspond to J and C version.)

## Block diagram



Standard schematic diagrams  
■ Primary with mains transformer section



\* MARK

MODEL REF. NO.	CA-MXG750V	CA-MXG850V/880V	CA-MXG950V
T001		QGT0319-003	QGT0322-003

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

EXPLANATION OF OVERALL OF SCHEMA.

MODEL CA-MXG750V/850V/880V/950V

SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/11	CA-MXG750V/850V CA-MXG880V/950V	. PRIMARY WITH MAINS TRANSFORMER
2/11	CA-MXG750V	. DC REGULATORS/AUDIO OUTPUT
3/11	CA-MXG850V CA-MXG880V/950V	. DC REGULATORS/AUDIO OUTPUT
4/11	CA-MXG750V	. EXTERNAL INPUT/SOURCE SELECTOR SWITCH
5/11	CA-MXG850V CA-MXG880V/950V	. EXTERNAL INPUT/SOURCE SELECTOR SWITCH
6/11	CA-MXG750V/850V CA-MXG880V/950V	. FL DISPLAYS/SYSTEM CONTROL LSI
7/11	CA-MXG750V/850V CA-MXG880V/950V	. USER CONTROL KEYS/MIC AMP
8/11	CA-MXG750V/850V CA-MXG880V/950V	. CD SERVO AND CD SYSTEM CONTROL . CD CHANGER MECHANISM CONTROL
9/11	CA-MXG750V/850V CA-MXG880V/950V	. TAPE DECK MECHANISM CONTROL . TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS
10/11	CA-MXG750V/850V CA-MXG880V/950V	. TUNER RF/IF/FM MULTIPLEX
11/11	CA-MXG750V/850V CA-MXG880V/950V	. VIDEO OUT

VERSION CODES

UN : ASEAN

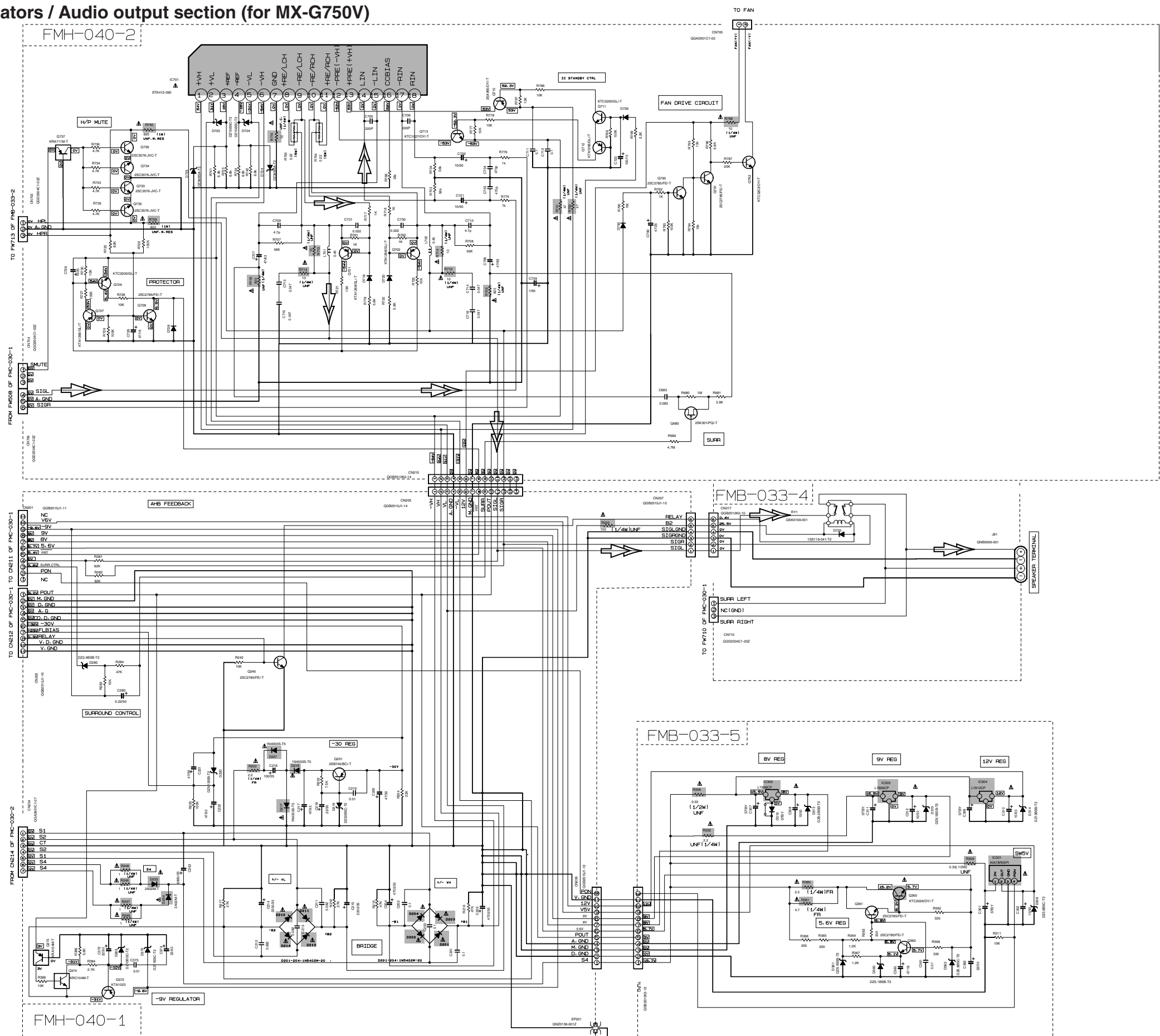
UX : SAUDI ARABIA

U : GENERAL COUNTRY

US : SINGAPORE AND UNIVERSAL EXCEPT ALL OF ABOVE



■ DC regulators / Audio output section (for MX-G750V)



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

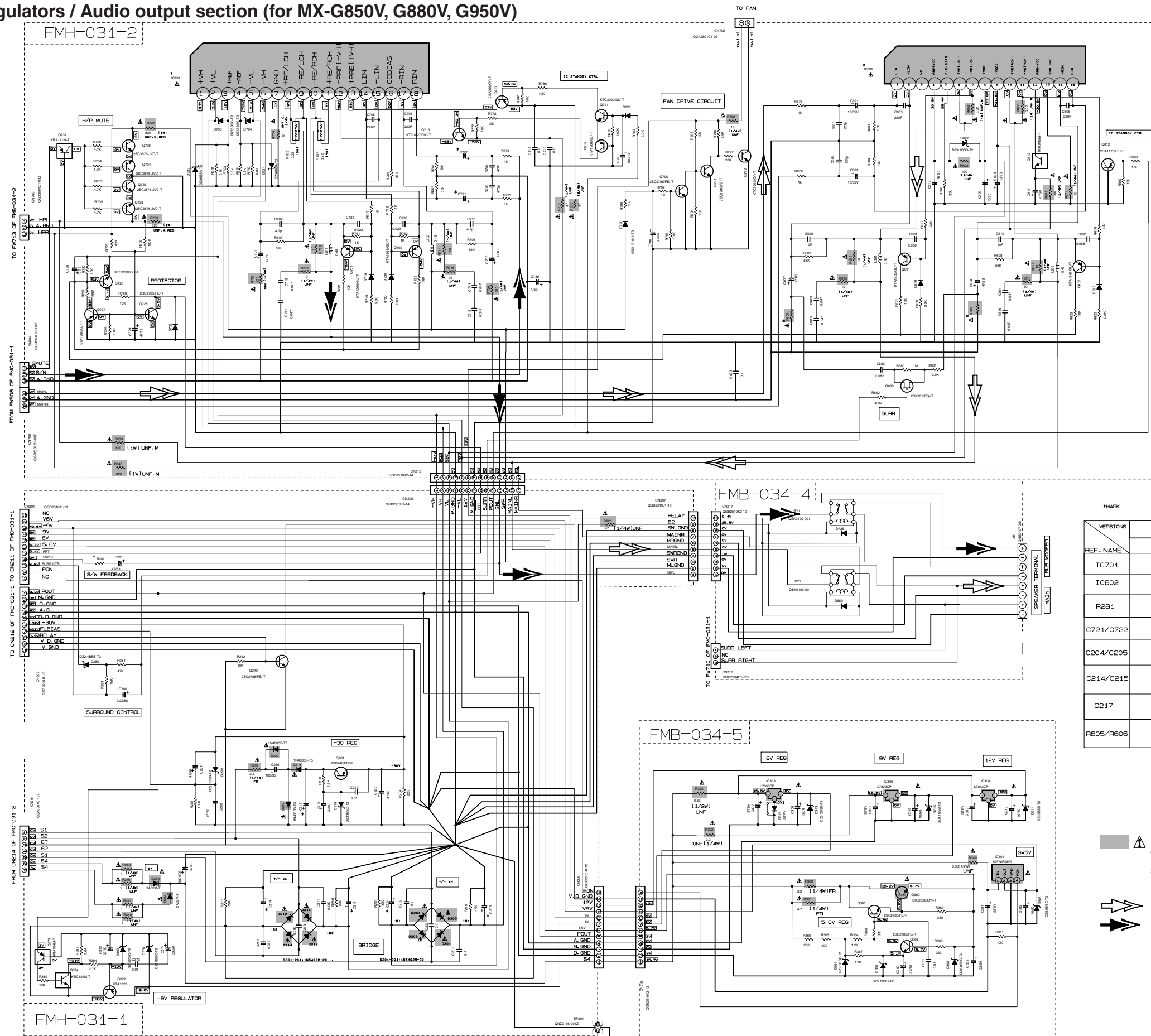
➡ MAIN SIGNAL

NOTES  
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION — AUX MODE- VOL MDN- BASS OFF  
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 pF (pF).  
ALL INDUCTANCE VALUES ARE IN mH (mH).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).  
ALL DIODES ARE 1SS119-041-12

MX-G950V/MX-G880V  
MX-G850V/MX-G750V

MX-G950V/MX-G880V  
MX-G850V/MX-G750V

# DC regulators / Audio output section (for MX-G850V, G880V, G950V)



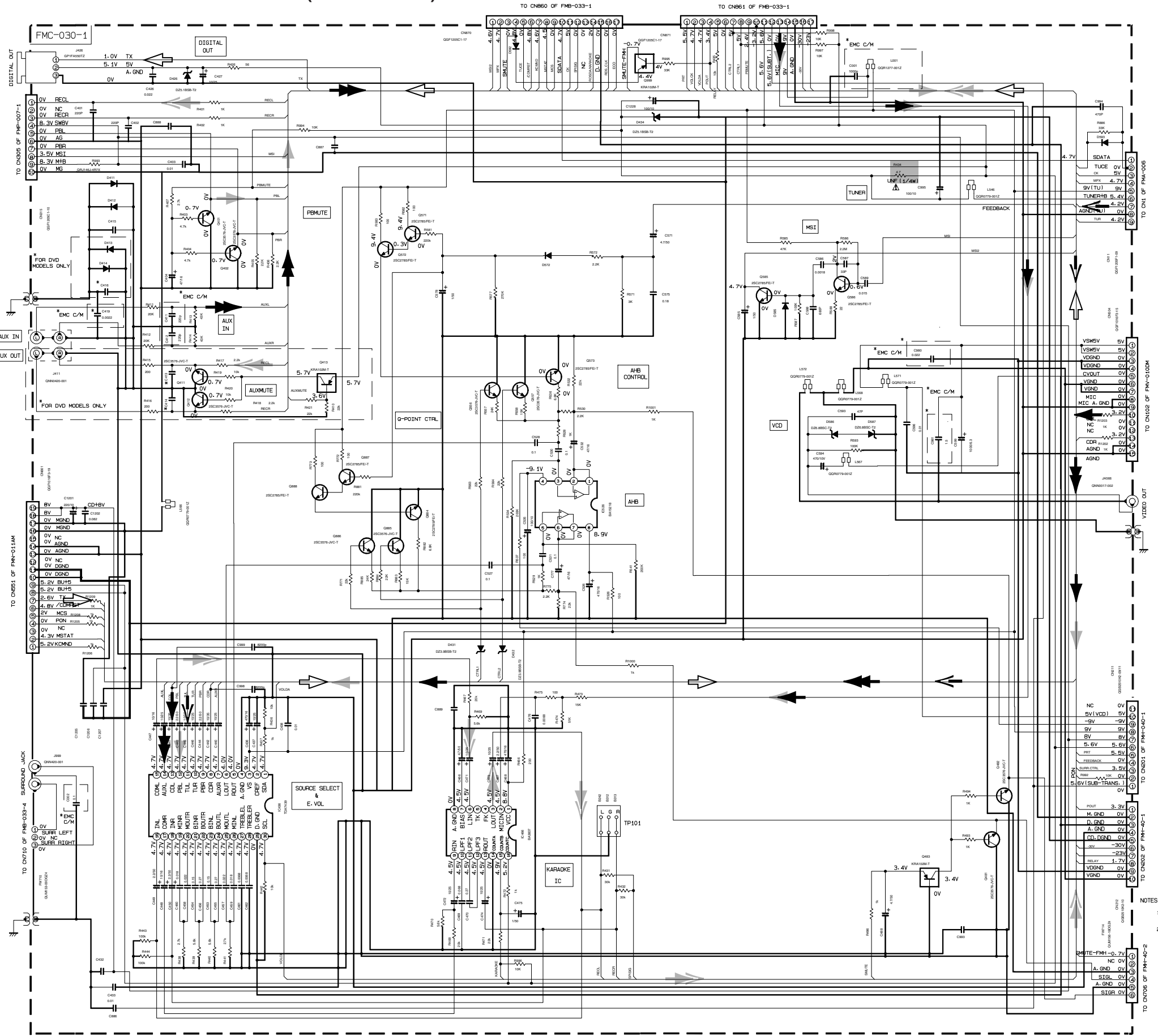
- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION — AUX MODE: VOL. MIN. BASS OFF
  2. UNLESS OTHERWISE SPECIFIED:  
RESISTORS ARE 1/4W ± 5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM (Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN nF (nF).  
ALL INDUCTANCE VALUES ARE IN mH (mH).  
ALL ELECTROLYTIC CAPACITORS ARE IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).  
ALL DIODES ARE 1SS119-041-T2

VERSIONS	CA-MXG850V/880V	CA-MXG950V
REF. NAME	U/UN/UX	U/UN/UX
IC701	STK412-090	STK412-010
IC602	STK402-030	STK402-050
R281	6.8K	10K
C721/C722	10/50	10/35
C204/C205	4700/56	4700/63
C214/C215	2200/35	2200/50
C217	47/63	47/100
R605/R606	1.2K (1/4W) UNF	1K (1/4W) UNF

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

MAIN SIGNAL  
SUB WOOFER SIGNAL

■ External input / Source selector switch section (for MX-G750V)



- ➔ AUX IN SIGNAL
- ➔ TUNER SIGNAL
- ➔ CD SIGNAL
- ➔ MAIN SIGNAL
- ➔ TAPE PLAY SIGNAL
- ➔ TAPE REC / AUX OUT SIGNAL
- ➔ DIGITAL DATA SIGNAL

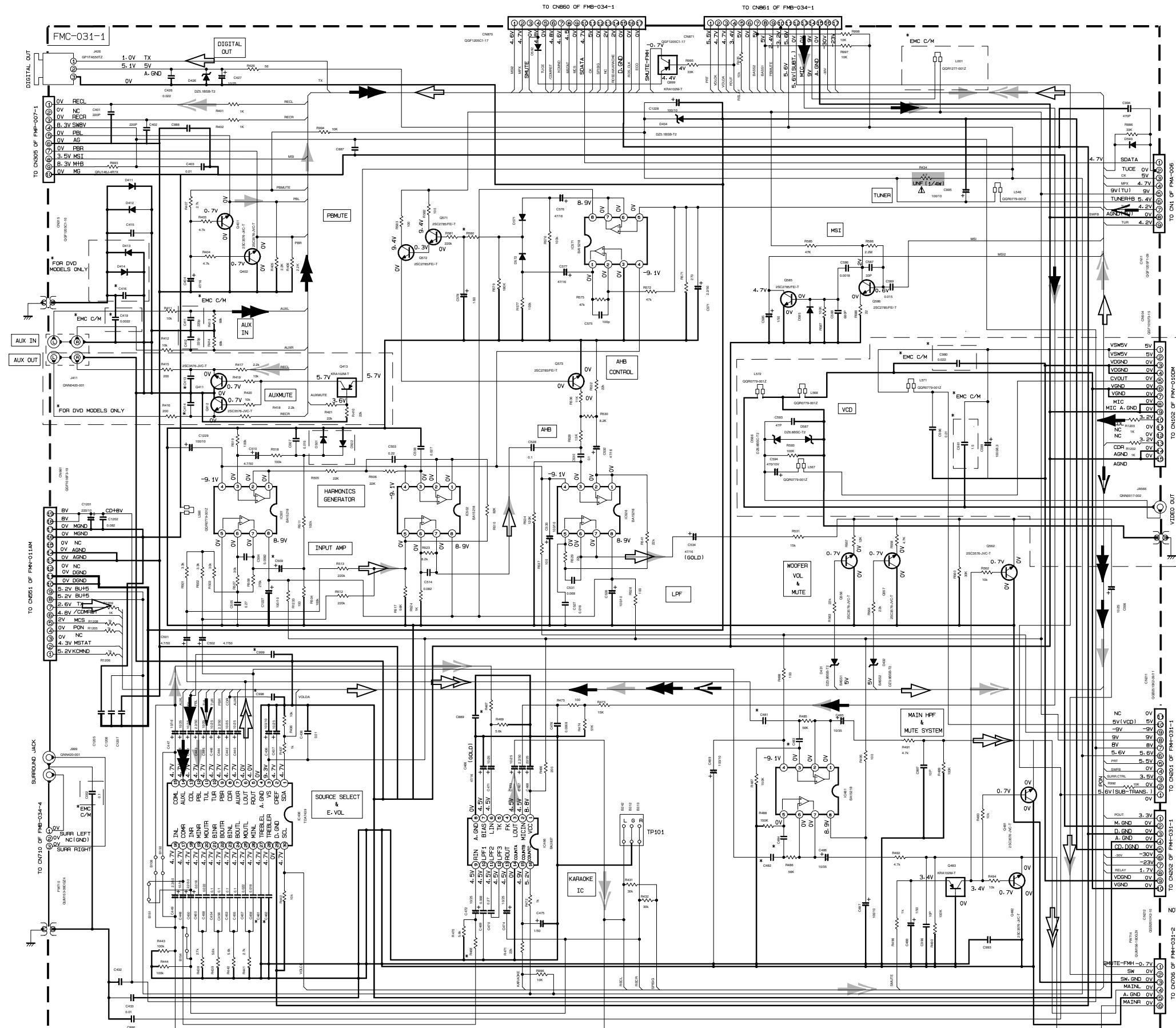
Parts are safety assurance parts.  
When replacing those parts make  
sure to use the specified one.

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION — AUX MODE- VOL. MDN- SUBNOOFR VOL. 1.
  - 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 PICO (pF).  
ALL INDUCTANCE VALUES ARE IN MICRO (μH).  
ALL C-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (pF)/RATED VOLTAGE (V).  
ALL DIODES ARE 1SS119-041-12

MX-G950V/MX-G880V  
MX-G850V/MX-G750V

MX-G950V/MX-G880V  
MX-G850V/MX-G750V

■ External input / Source selector switch section (for MX-G850V, G880V, G950V)



\*MARK

MODEL	CA-MXG850V/880V
VERSION	US/UK UN
R467/468	20K
C481/482	0F632AJ-223Z
C483/484	0FLM1HJ-223Z
C461/462	0F632AJ-682Z
C509	0ETN10M-475Z
R580	15K
C998/999	4700p

\*MARK

MODEL	CA-MXG950V
VERSION	US/UK UN
R467/468	15K
C481/482	0F632AJ-223Z
C483/484	0FLM1HJ-223Z
C461/462	0F632AJ-682Z
C509	0ETN10M-105Z
R580	28K
C998/999	2200p

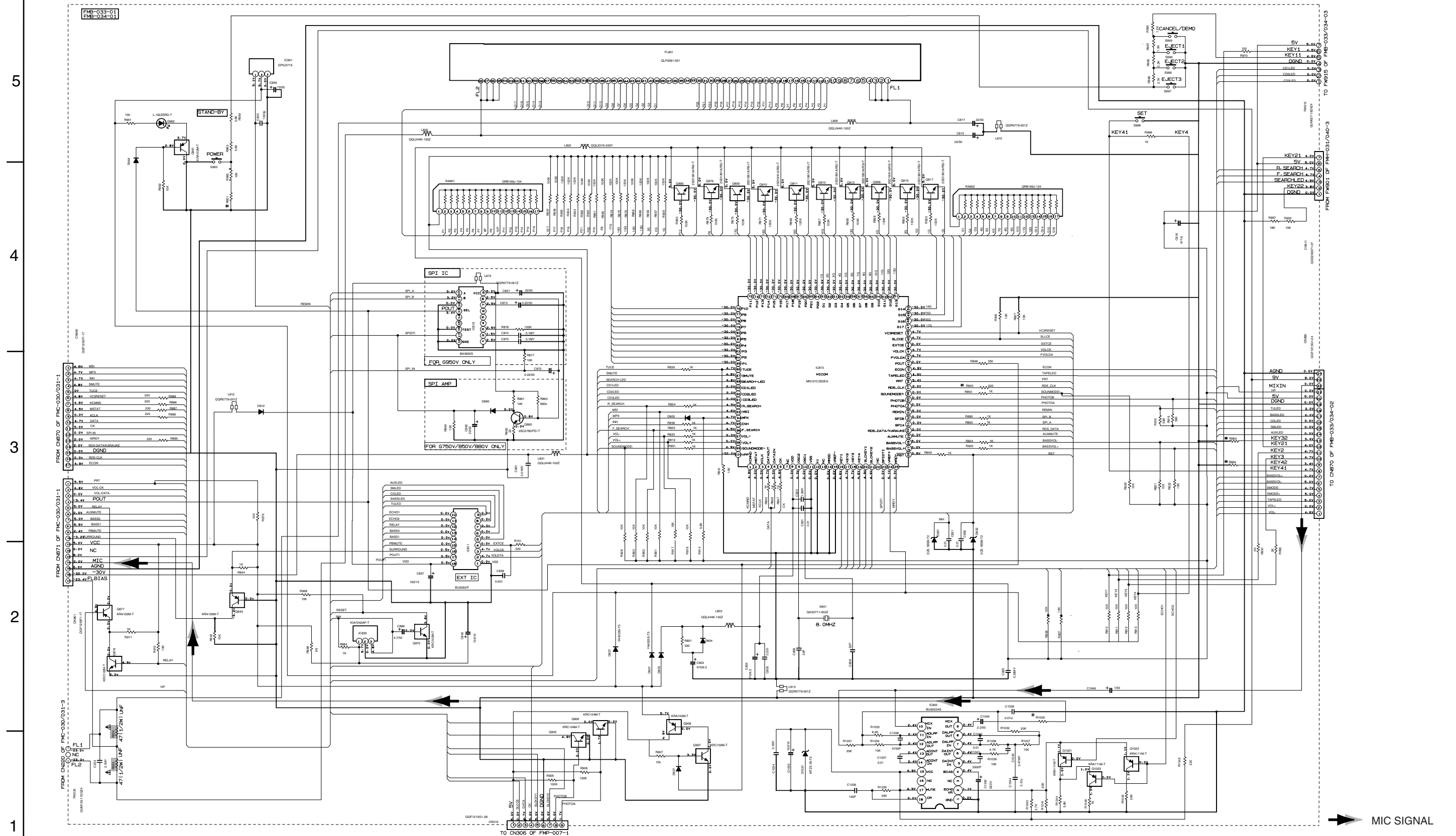
- MIC SIGNAL
- SUBWOOFER SIGNAL
- AUX IN SIGNAL
- TUNER SIGNAL
- CD SIGNAL
- MAIN SIGNAL
- TAPE PLAY SIGNAL
- TAPE REC / AUX OUT SIGNAL
- DIGITAL DATA SIGNAL

NOTES  
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION — AUX MODE- VOL MIN- SUBWOOFER VOL 1.  
2. UNLESS OTHERWISE SPECIFIED  
RESISTORS ARE 1/4W ±5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM(S).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN pF(pF).  
ALL INDUCTANCE VALUES ARE IN mH(mH).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).  
ALL DIODES ARE 1SS119-041-T2


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



## ■FL displays / System control LSI



■ MARK	CA-MXG750V	CA-MXG750V	CA-MXG850V	CA-MXG850V/BB0V	CA-MXG950V	CA-MXG950V
	UX	US, UN	UX	U/UN	UX	U/UN
R921	330K	330K	75K	75K	18K	18K
R994	18K	75K	18K	75K	18K	75K
R994	18K	330K	18K	330K	18K	330K
RB43	NONE	NONE	NONE	NONE	NONE	NONE
R1036	68K	68K	27K	27K	30K	30K

 **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 — AUX MODE- VOL MIN- BASS LEVEL 1

2. UNLESS OTHERWISE SPECIFIED

RESISTORS ARE 1/4W ±5% CARBON RESISTOR.

ALL RESISTANCE VALUES ARE IN OHMS (Ω).

ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.

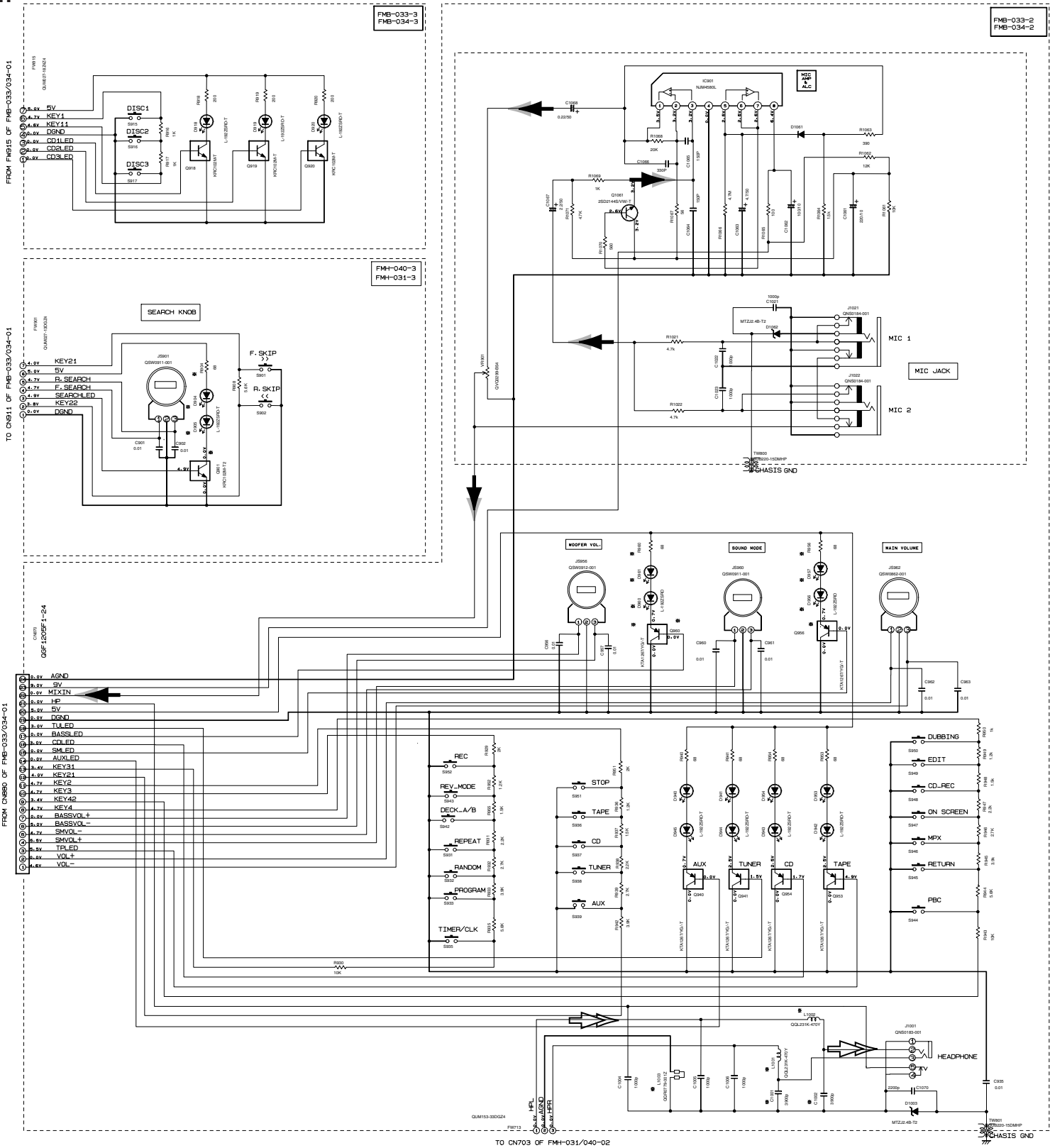
ALL CAPACITANCE VALUES ARE IN PICO(F) (pF).

ALL INDUCTANCE VALUES ARE IN MILLI(H) (mH).

ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (nF)/RATED VOLTAGE (V).

ALL DIODES ARE 1SS119-041-2

User control keys / Mic amp section



* MARK	CA-MXG750V US-UN	CA-MXG750V UX	CA-MXG850V/880V L/UN	CA-MXG850V UX	CA-MXG850V L/UN	CA-MXG950V UX
D904, D905, D956, D957 D960, D961	NONE	NONE	NONE	NONE	L-192ZSRD-T	L-192ZSRD-T
L1001, L1002 C1001, C1002	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT
L1003	QGL231K-2R2Y	QGL231K-2R2Y	QGL231K-2R2Y	QGL231K-2R2Y	QGL231K-2R2Y	QGL231K-2R2Y
R904, R956, R960	NONE	NONE	NONE	NONE	SB	SB
Q901	NONE	NONE	NONE	NONE	KRC102M-T	KRC102M-T
Q956, Q960	NONE	NONE	NONE	NONE	KTA1267/YG/-T	KTA1267/YG/-T

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION — AUX MODE, VOL MIN, BASS OFF

2. UNLESS OTHERWISE SPECIFIED

RESISTORS ARE 1/4W ± 5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM (Ω).  
ALL CAPACITORS ARE ORGANIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN μF (μF).  
ALL INDUCTANCE VALUES ARE IN mH (mH).  
ALL DIODES ARE 1SS119-041-T2.

■ CD servo and CD system control section

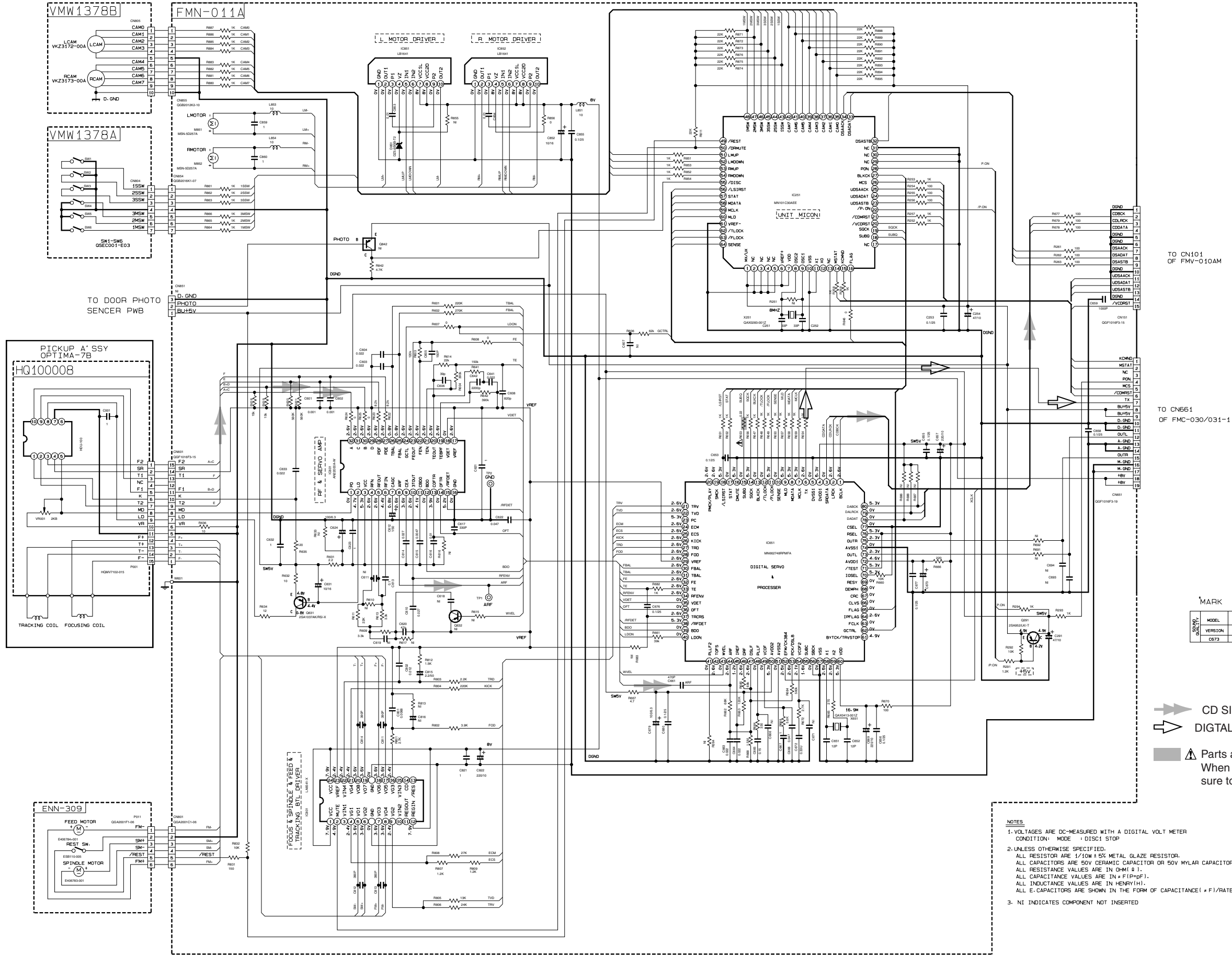
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2

1



MX-G950V/MX-G880V  
MX-G850V/MX-G750V

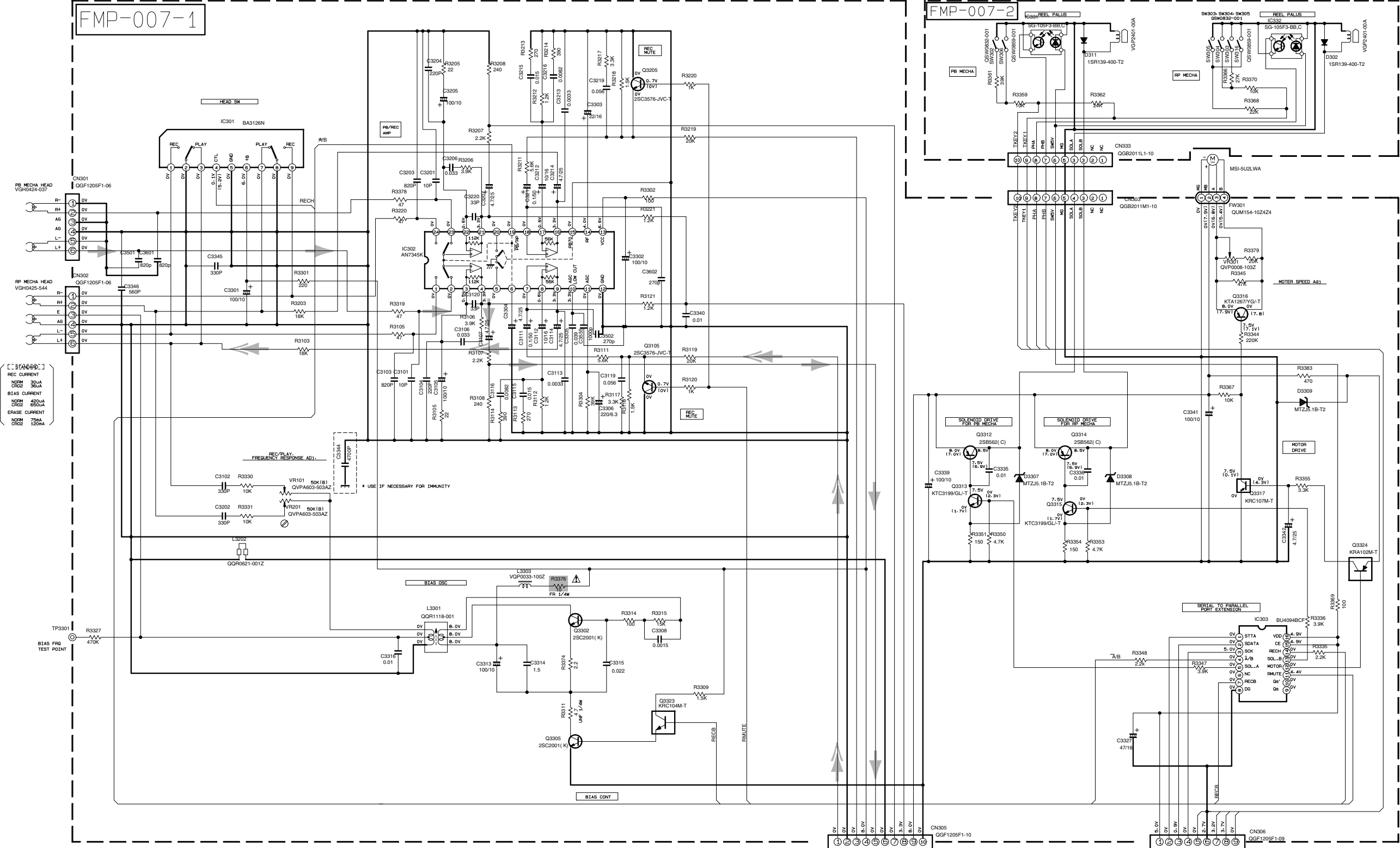
MX-G950V/MX-G880V  
MX-G850V/MX-G750V

■ Tape deck mechanism control section

FMP-007-1

FMP-007-2

CASSETTE MECHA CONTROL CIRCUIT [SLC]



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 CAPACITORS ARE CERAMIC CAPACITOR
- ALL CAPACITANCE VALUES ARE IN μF(μF).
- ALL INDUCTANCE VALUES ARE IN mH(mH).
- ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
- PP: POLYPROPYLENE CAPACITOR

➡ TAPE PLAY SIGNAL  
➡ TAPE REC SIGNAL

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

FROM CN315 OF FMC-030/031-1

FROM CN316 OF FMB-033/034-1

A

B

C

2-10 D

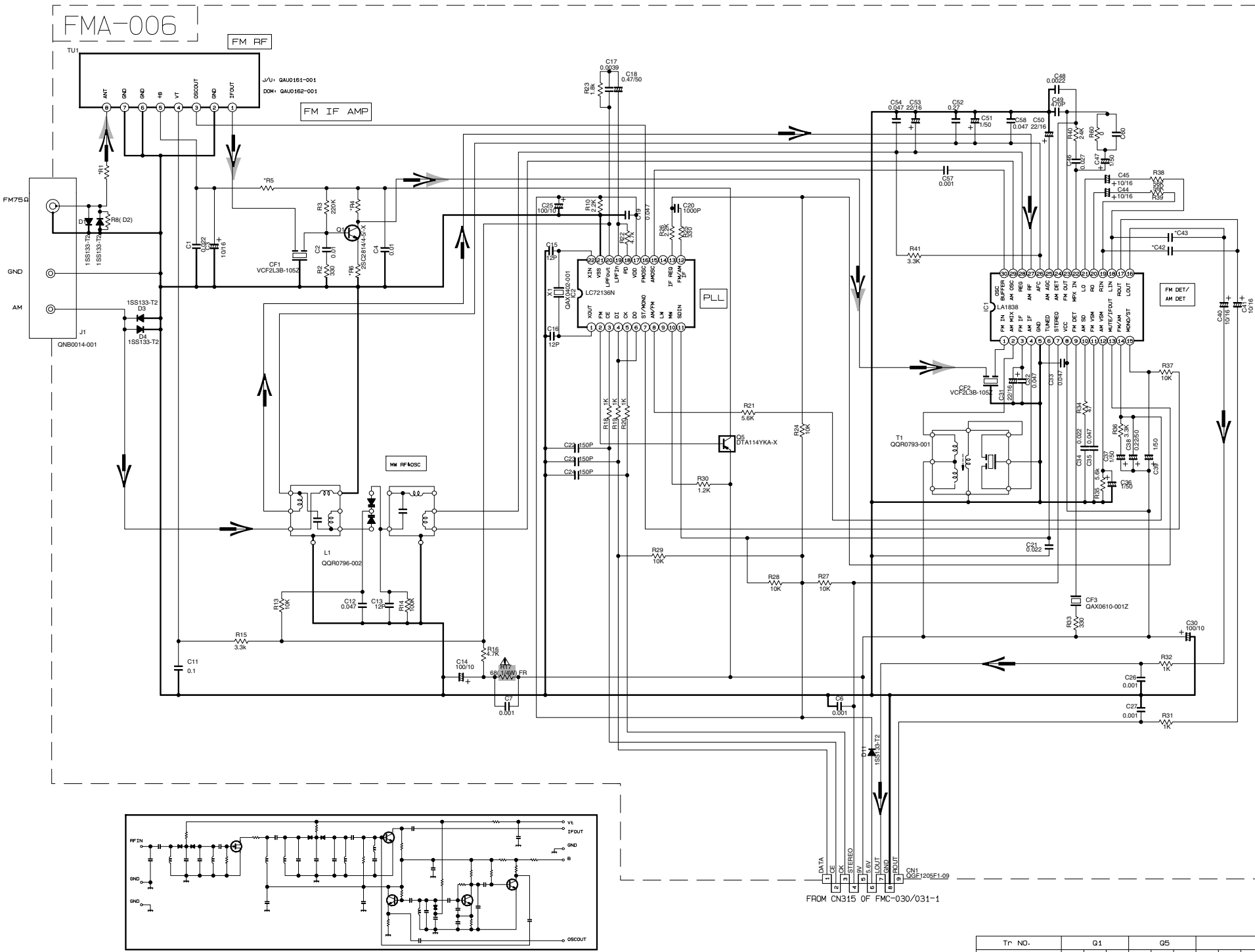
E

F

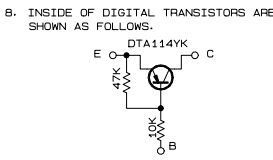
G



■ Tuner RF / IF / FM multiplex 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 CAPACITANCE VALUES ARE IN \*F(P=pF).
  5. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (\*F)/RATED VOLTAGE (V).
  6. SI DIODES (D1) 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



	VERSION		
	J/C	User1es	DCM UP MODEL ONLY
C42	0.0022	0.0015	0.0018
C43	0.0022	0.0015	0.0018
R1	560	560	270
R4	331	331	221
R5	560	560	270
R6	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
	FM GOOD 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	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.		G1				G5							
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.		G2				G3				G4			
PIN NO.		E	C	B	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL		0	0	0.7	0	0	0.7	0	0.7	0	3.6	0.7	0.7
AM 144KHz NO SIGNAL		0	0	0.3	0	0.3	0.3	3.6	3.6	3.6	3.6	3.6	3.6

➡ AM / TUNER MAIN SIGNAL  
➡ FM RADIO SIGNAL

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

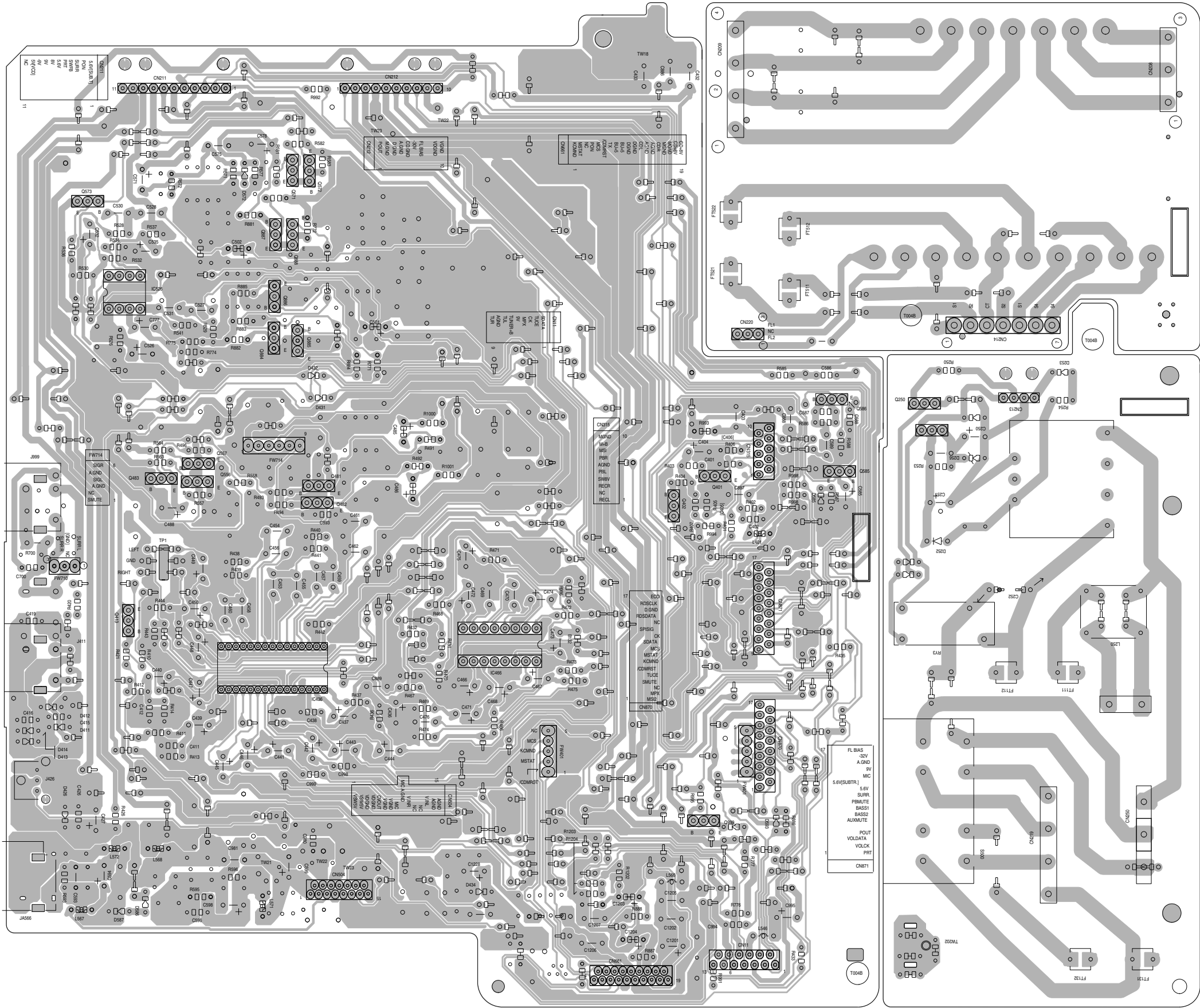
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Printed circuit boards  
■ Input board (for MX-G750V)

5  
4  
3  
2  
1

A B C D E F G



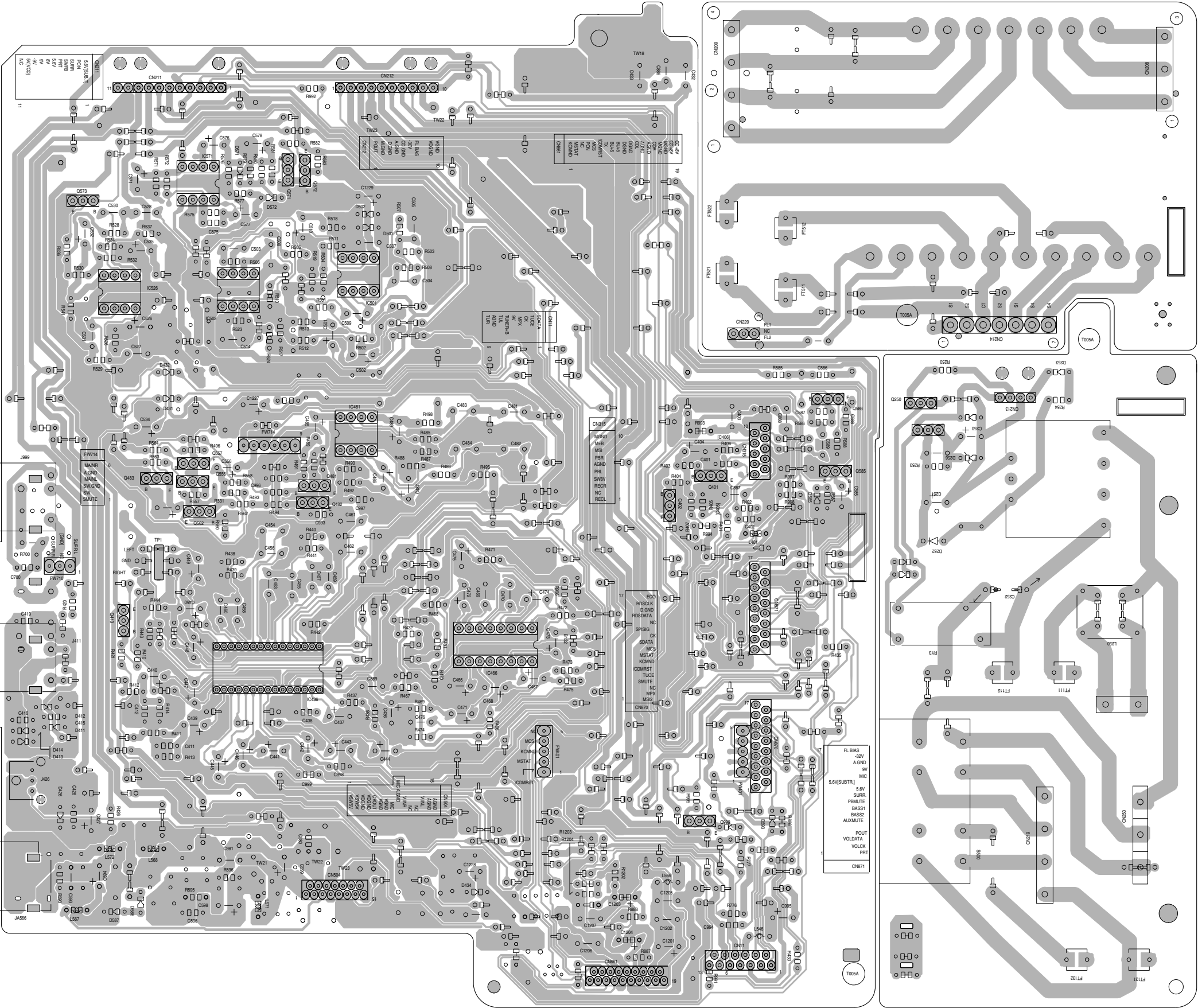


MX-G950V/MX-G880V  
MX-G850V/MX-G750V

MX-G950V/MX-G880V  
MX-G850V/MX-G750V

Input board (for MX-G950V, G880V, G850V)

Transformer board



Power board

A

B

C

2-14 D

E

F

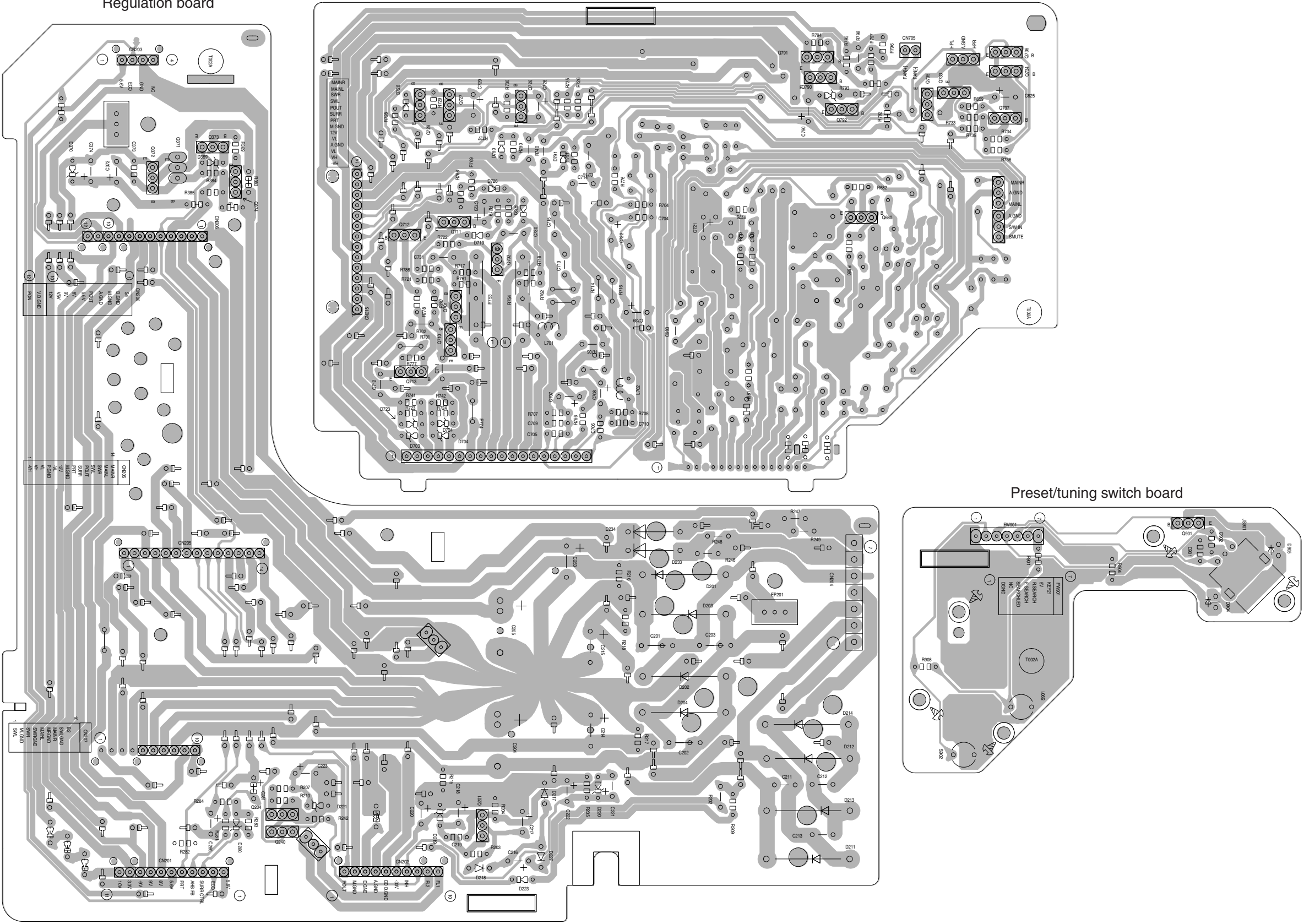
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■ Power board (for MX-G750V)

Amplifier board

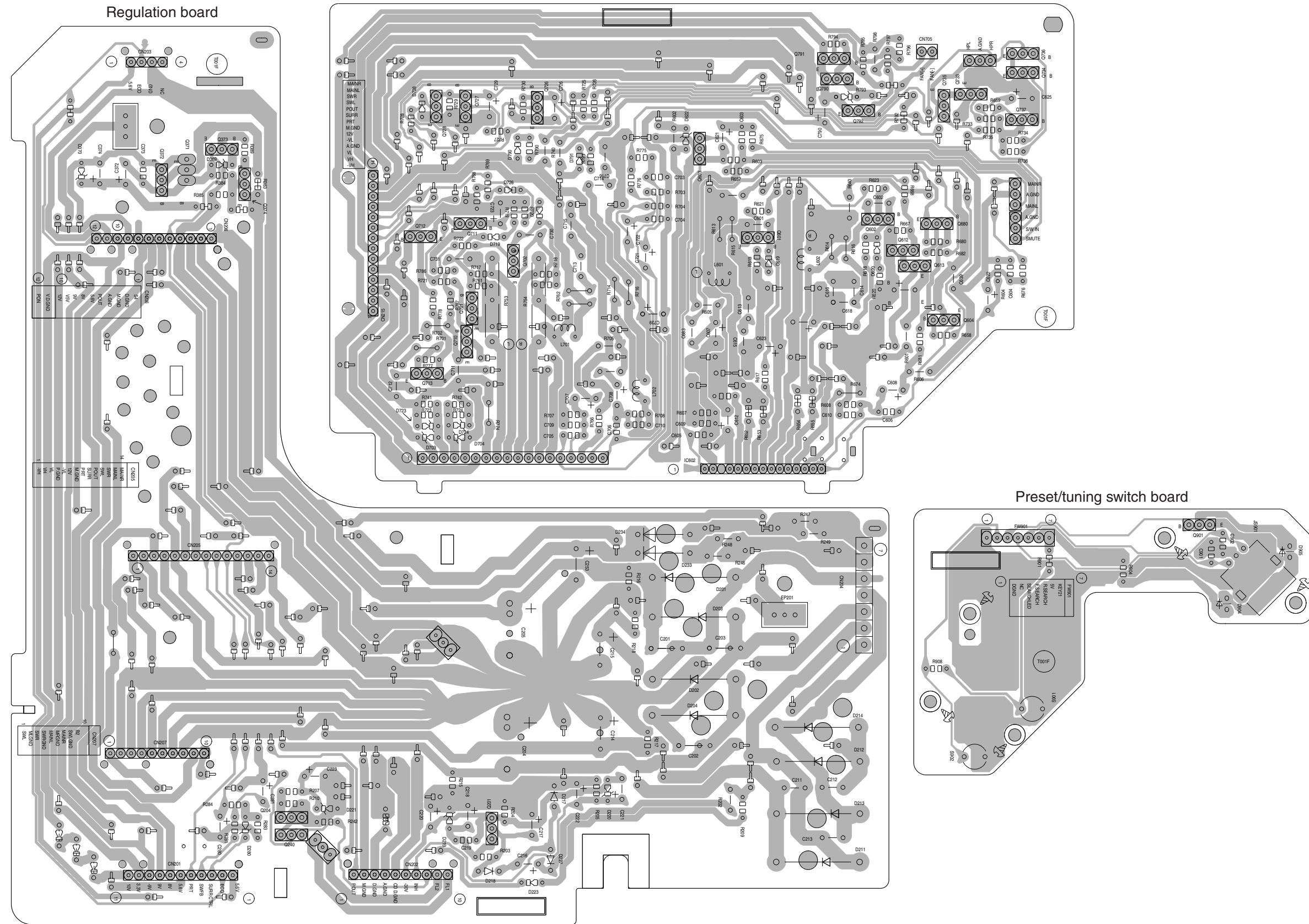
Regulation board

Preset/tuning switch board



MX-G950V/MX-G880V  
MX-G850V/MX-G750V

## Amplifier board



G



■ Front board (for MX-G750V)

Display & System control board

Operation switch board

Voltage board

CD eject board

Speaker terminal board

5  
4  
3  
2  
1

A B C D E F G



MX-G950V/MX-G880V  
MX-G850V/MX-G750V

MX-G950V/MX-G880V  
MX-G850V/MX-G750V

■ Front board (for MX-G950V, G880V, G850V)

Display & system control board

Operation swith board

Voltage board

CD eject board

Speaker  
terminal board

5

4

3

2

1

A

B

C

2-18 D

E

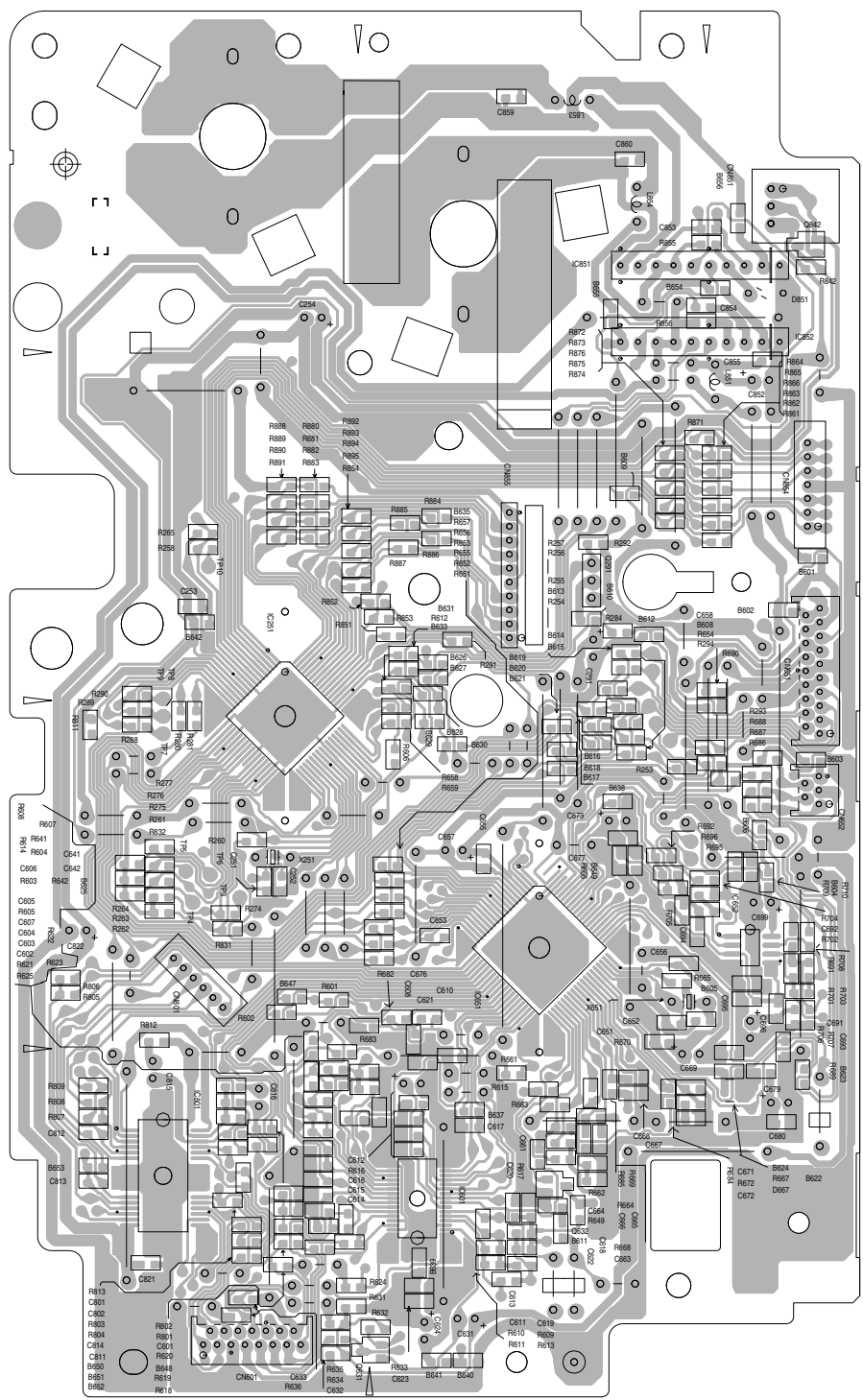
F

G

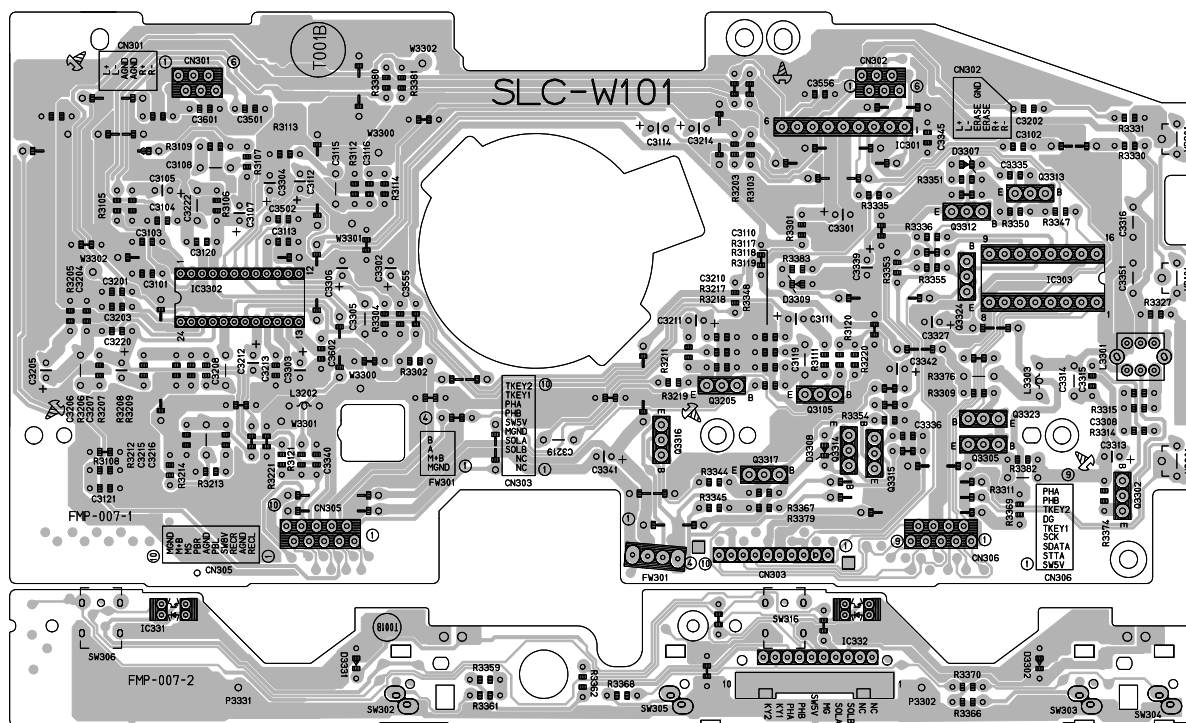


■ CD board

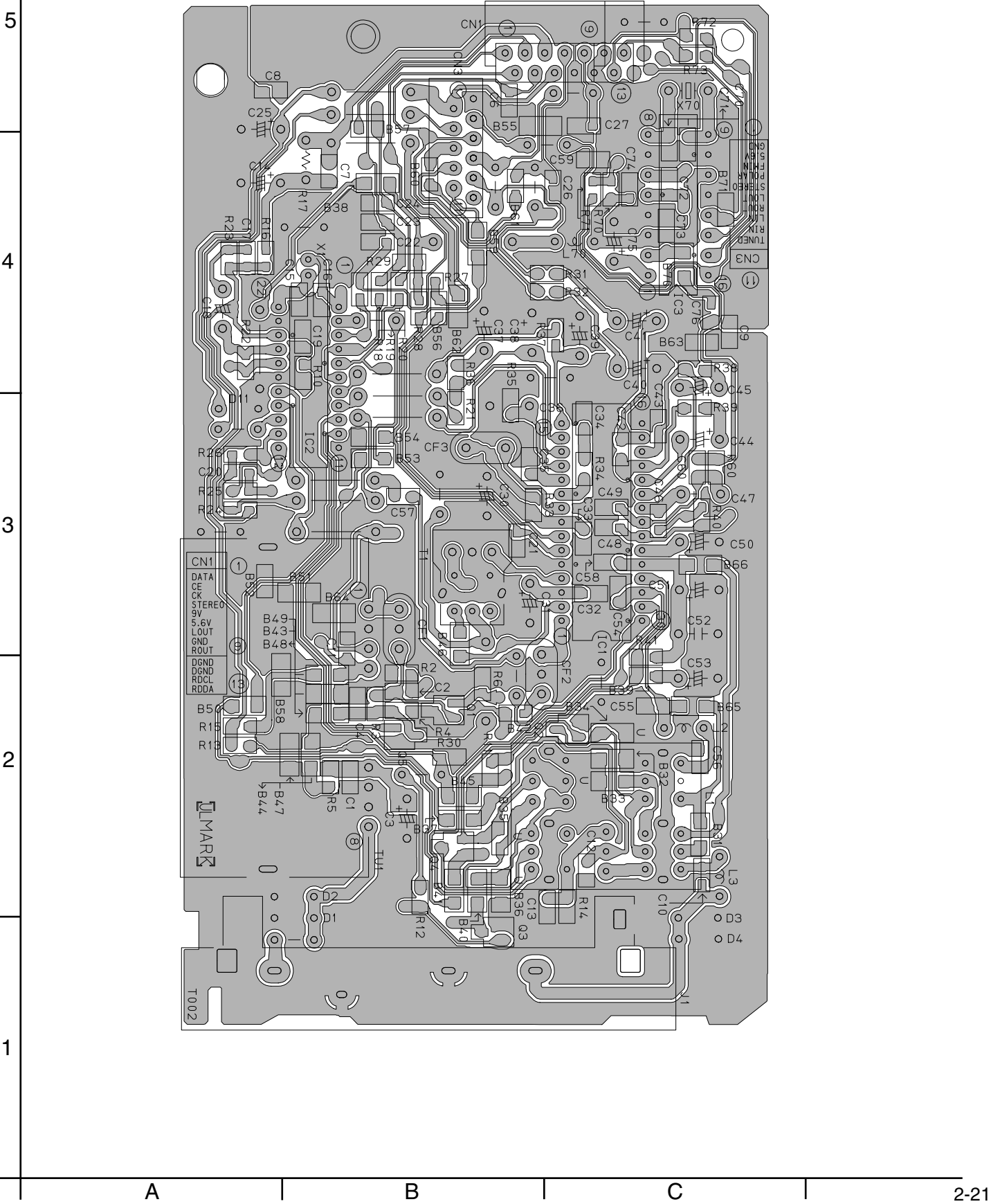
5  
4  
3  
2  
1



## ■ Head amplifier & mechanism control board



■ Tuner board



**MX-G950V/MX-G880V**  
**MX-G850V/MX-G750V**



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AUDIO & COMMUNICATION BUSINESS DIVISION

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