

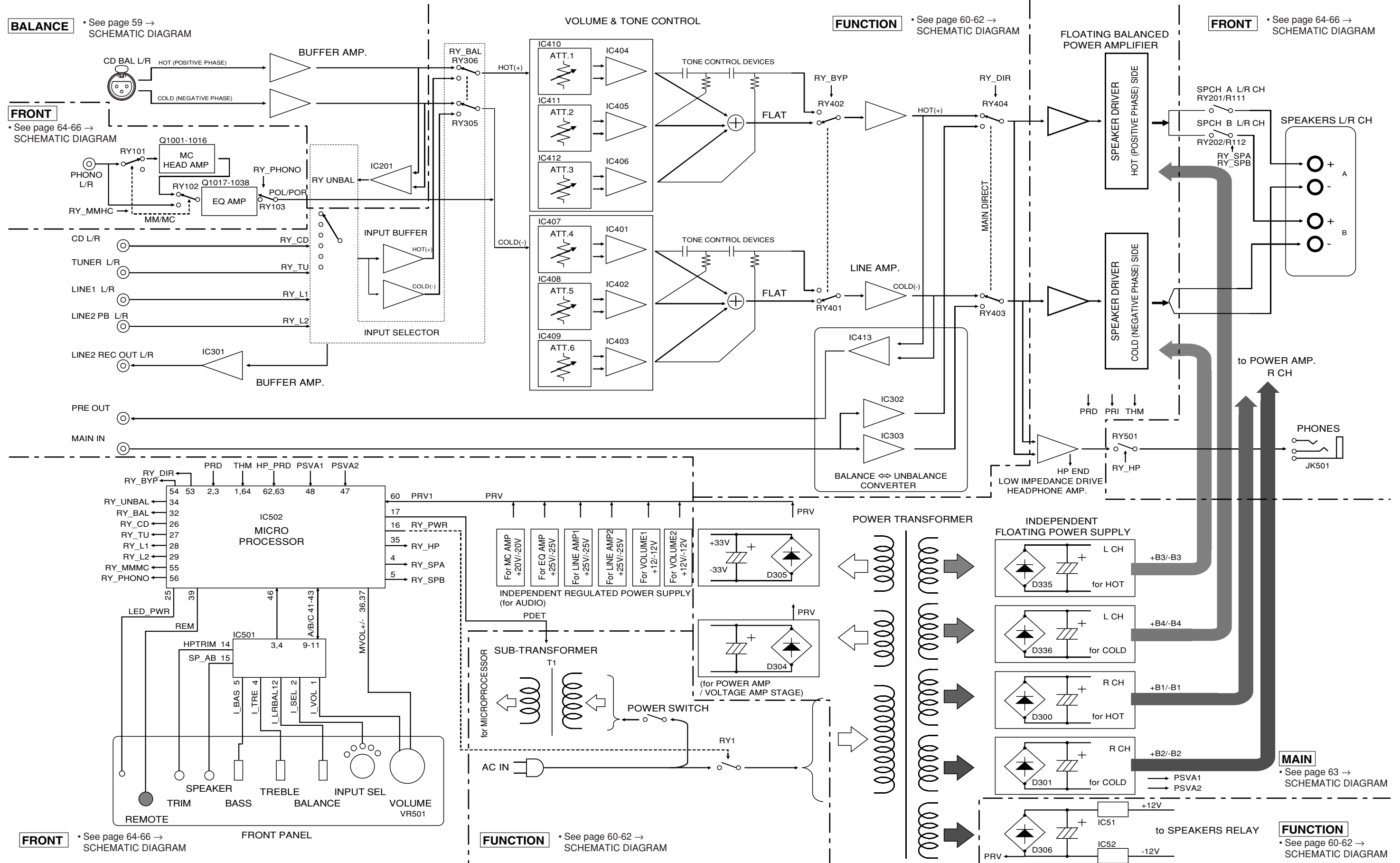
# BLOCK DIAGRAM

**BALANCE** • See page 59 → SCHEMATIC DIAGRAM

**FRONT** • See page 64-66 → SCHEMATIC DIAGRAM

**FUNCTION** • See page 60-62 → SCHEMATIC DIAGRAM

**FRONT** • See page 64-66 → SCHEMATIC DIAGRAM



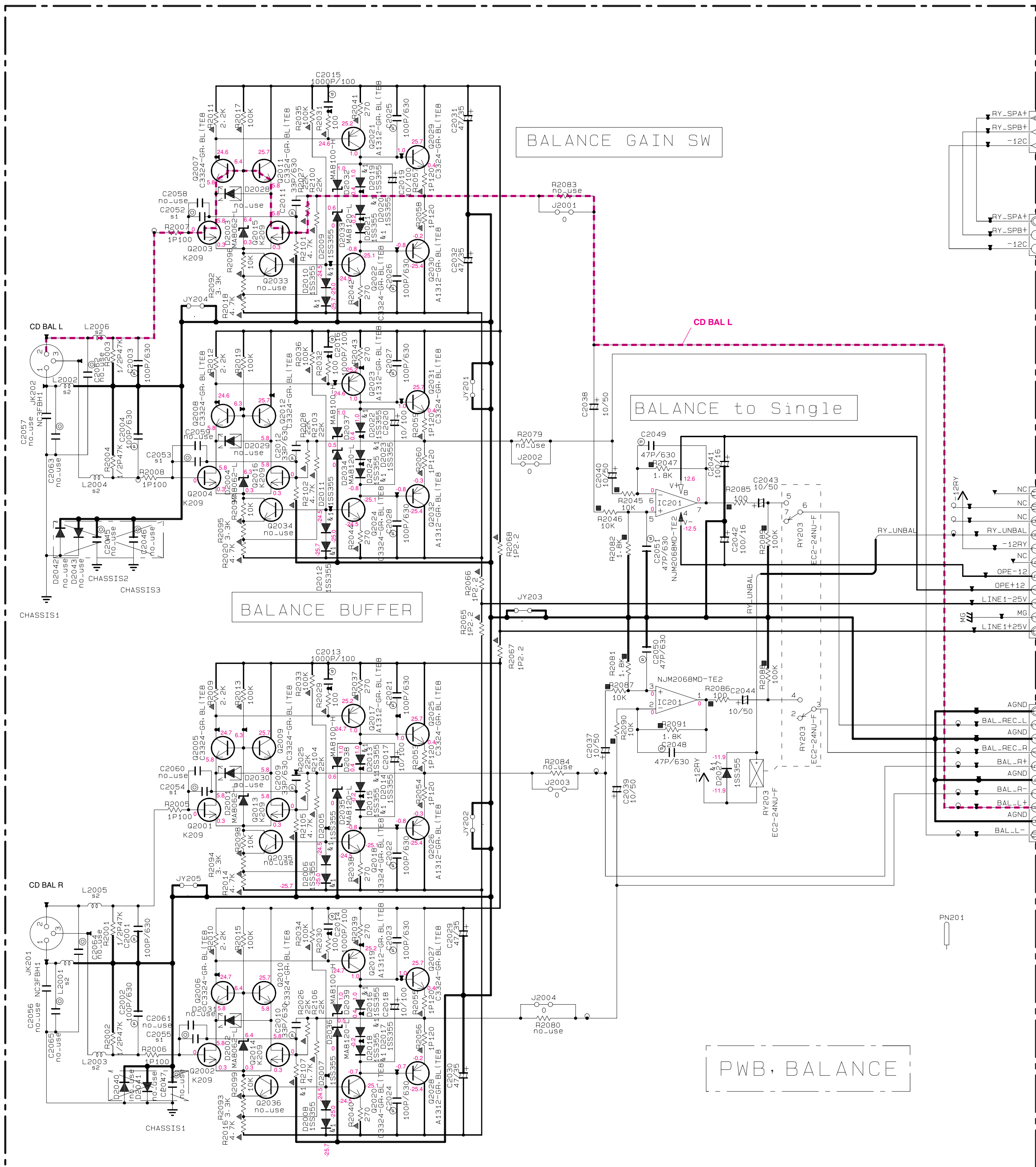
**FRONT** • See page 64-66 → SCHEMATIC DIAGRAM

**FUNCTION** • See page 60-62 → SCHEMATIC DIAGRAM

**MAIN** • See page 63 → SCHEMATIC DIAGRAM

**FUNCTION** • See page 60-62 → SCHEMATIC DIAGRAM

SCHEMATIC DIAGRAMS  
BALANCE



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☒	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▣	FIRE PROOF CARBON FILM RESISTOR
◻	CEMENT MOLDED RESISTOR
⊕	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

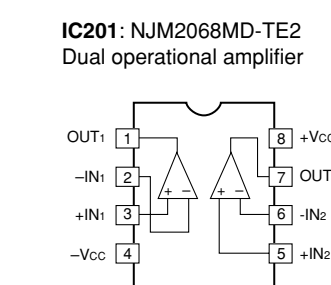
CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⊖	MICA CAPACITOR
⊕	POLYPROPYLENE FILM CAPACITOR
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	D2005-2024-2027	1SS355 MA111 KDS160-RTK/P

NOTICE (mode1)  
(J)..... JAPAN  
(U)..... U.S.A  
(C)..... CANADA  
(R)..... GENERAL  
(T)..... CHINA  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(G)..... EUROPE  
(L)..... SINGAPORE  
(E)..... SOUTH EUROPE  
(V)..... TAIWAN  
(F)..... RUSSIAN



Destination Part List

sXX	LOC	J	UC	RTKAL	B	G
s1	C2055 C2053 C2054 C2052	X	X	WE10050 100P/630	WE10050 100P/630	WE10050 100P/630
s2	L2004 L2001 L2005 L2003 L2002 L2006	V4B3010 MMZ168Y601	V4B3010 MMZ168Y601	RD35000 0	RD35000 0	RD35000 0

To PWB. SPTML-R  
CB59

Page 66 [H2]  
to FRONT (12)\_CB59

To PWB. SUBTR  
W3

Page 62 [H8]  
to FUNCTION (3)\_W3

To PWB. FUNC (1)  
-INPUT  
W3005

Page 60 [K2]  
to FUNCTION (1)\_W3005

To PWB. FUNC (1)  
-INPUT  
W3006

Page 60 [K2]  
to FUNCTION (1)\_W3006

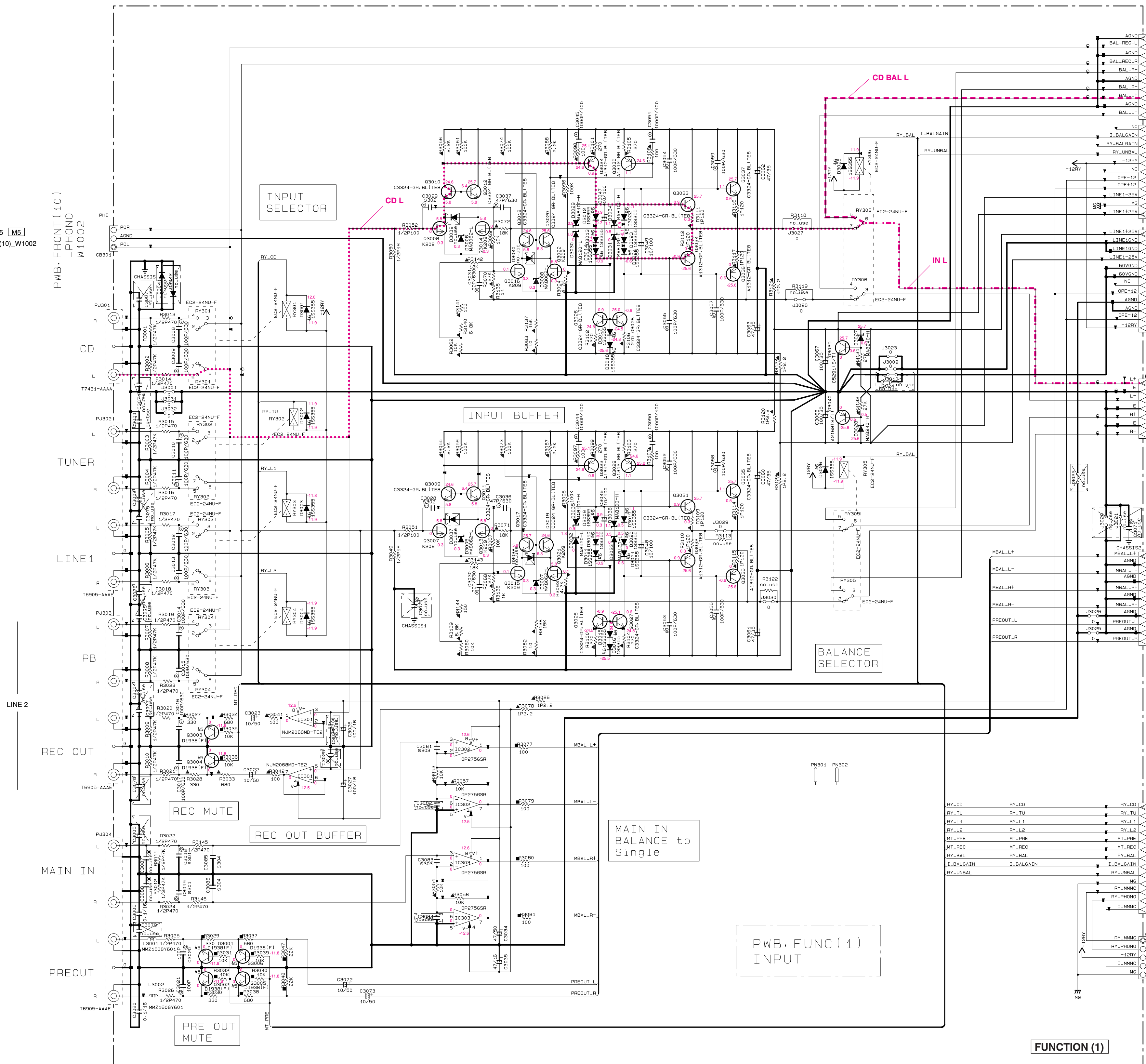
PWB. BALANCE

\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
\* Components having special characteristics are marked Δ, and must be replaced with parts having specifications equal to those originally installed.  
\* Schematic diagram is subject to change without notice.  
● 電圧は、内部抵抗10MΩの電圧計で測定したものです。  
● Δ印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。  
● 本回路図は標準回路図です。改良のため予告なく変更することがございます。



FUNCTION 1/3

Page 65 [M5] to FRONT (10)\_W1002



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
⊠	METAL FILM RESISTOR
⊞	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊞	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

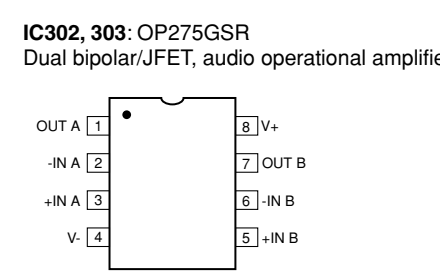
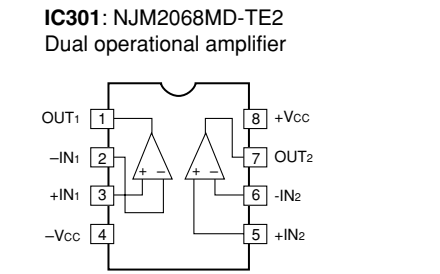
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
⊙	POLYESTER FILM CAPACITOR
⊙	POLYSTYRENE FILM CAPACITOR
⊙	MICA CAPACITOR
⊙	POLYPROPYLENE FILM CAPACITOR
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1	02-4-7	2SC2412K(G/R/S) 2SC9318B(AK/R/R/S) KTC3875S-V-GR-RTK/P
k2	01-144-147-4050-4053	0T144EKA KRC104S-RTK/P
k3	0145-146	0T144EKA KRA104S-RTK/P
k4	04001-4002-4007-4008	2SA1037AK(G/R/S) KTA1504S-V-GR-RTK/P
k5	0401-3001-3006-4003-4006-4009-4011	2SD1938F(S-T 2SC3326(A/B) 2SC938A(A/B) 2SC9704(K)
k6	01-4-6-10-12-3001-3004-3009-3026-4009-4010-4015-4034-4037-4038	1S535S MA111 KDS160-RTK/P

NOTICE (code1)

- (J)..... JAPAN
- (U)..... U.S.A
- (C)..... CANADA
- (R)..... GENERAL
- (T)..... CHINA
- (K)..... KOREA
- (A)..... AUSTRALIA
- (B)..... BRITISH
- (G)..... EUROPE
- (L)..... SINGAPORE
- (E)..... SOUTH EUROPE
- (V)..... TAIWAN
- (F)..... RUSSIAN



To PWB. BALANCE CB202  
Page 59 [I7] to BALANCE\_CB202

To PWB. BALANCE CB201  
Page 59 [I5] to BALANCE\_CB201

To PWB. FUNC (2) -VOLUME CB403  
Page 61 [J4] to FUNCTION (2)\_CB403

To PWB. FUNC (2) -VOLUME CB402  
Page 61 [B6] to FUNCTION (2)\_CB402

To PWB. FUNC (2) -VOLUME CB401  
Page 61 [B5] to FUNCTION (2)\_CB401

To PWB. FRONT (1) MICON CB519  
Page 64 [B5] to FRONT (1)\_CB519

To PWB. FRONT (10) PHONO W1003  
Page 65 [B5] to FRONT (10)\_W1003

Destination Part List

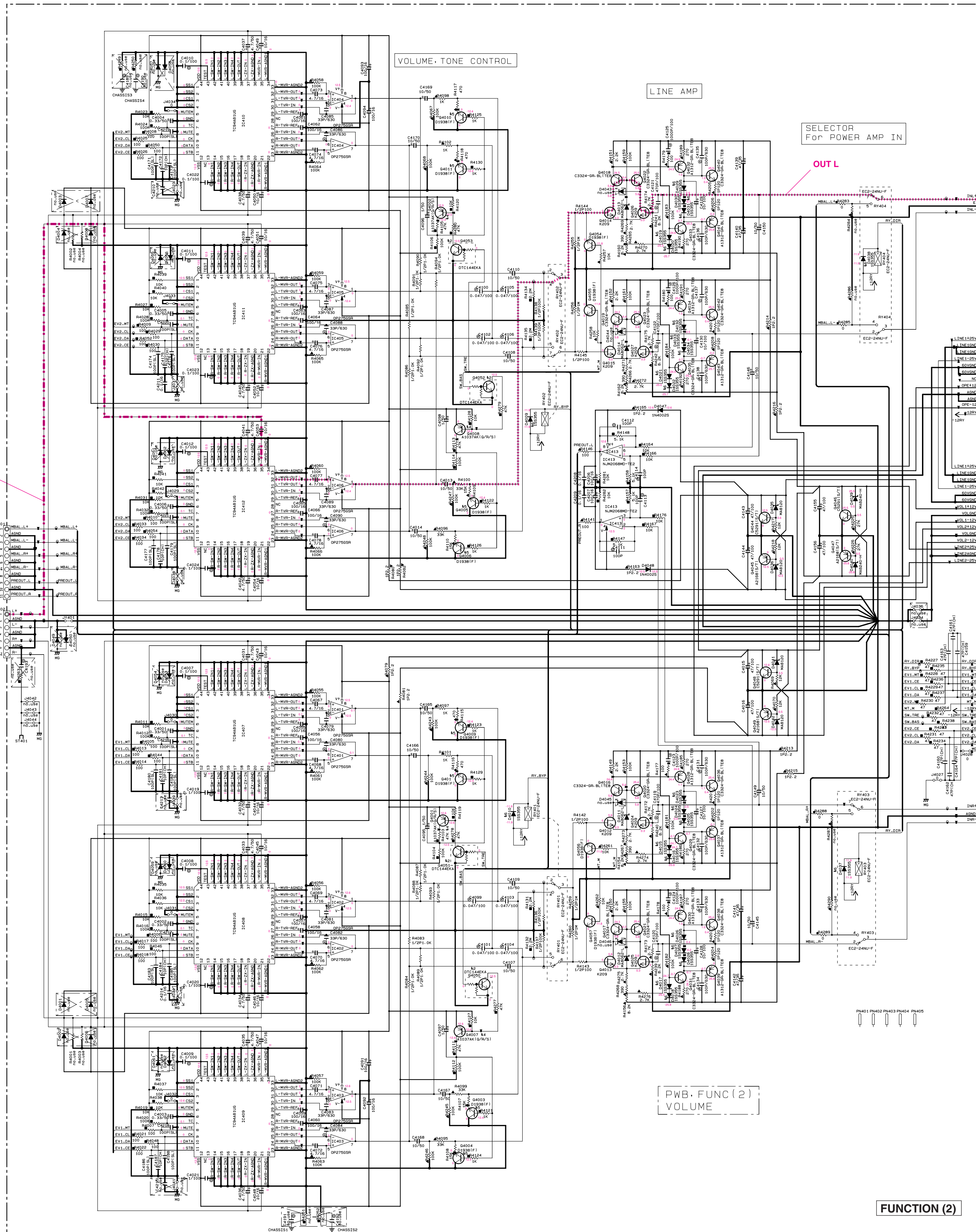
sXX	LDC	J	UC	RL	TK	A	B	G
9301	C3018 C3019	UA65210 100P	UA65210 100P		UA65247 470P	UA65210 100P	UA65247 470P	UA65247 470P
9302	C3026 C3029	X	X	X	WE10095 100P/630	X	WE10095 100P/630	WE10095 100P/630
9303	C3083	X	X	X	US06210 100P (SL)	X	US06210 100P (SL)	US06210 100P (SL)
9304	C3085	X	X	X	US06247 470P (SL)	X	US06247 470P (SL)	US06247 470P (SL)

★ All voltages are measured with a 10MQ/V DC electronic voltmeter.  
 ★ Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally installed.  
 ★ Schematic diagram is subject to change without notice.

●電圧は、内部抵抗10MQの電圧計で測定したものです。  
 ●△印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。  
 ●本回路図は標準回路図です。改良のため予告なく変更することがございます。



FUNCTION 2/3



REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
■	METAL CLAY RESISTOR
◻	FILM PROOF CARBON FILM RESISTOR
○	CEMENT MOUNTED RESISTOR
◇	SEMI-VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
■	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
○	POLYESTER FILM CAPACITOR
◇	POLYPROPYLENE FILM CAPACITOR
□	MICA CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

NOTICE (note1)  
 (J)..... JAPAN  
 (U)..... U.S.A.  
 (C)..... CANADA  
 (R)..... GENERAL  
 (T)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (L)..... SINGAPORE  
 (E)..... SOUTH EUROPE  
 (V)..... TAIWAN  
 (F)..... RUSSIAN

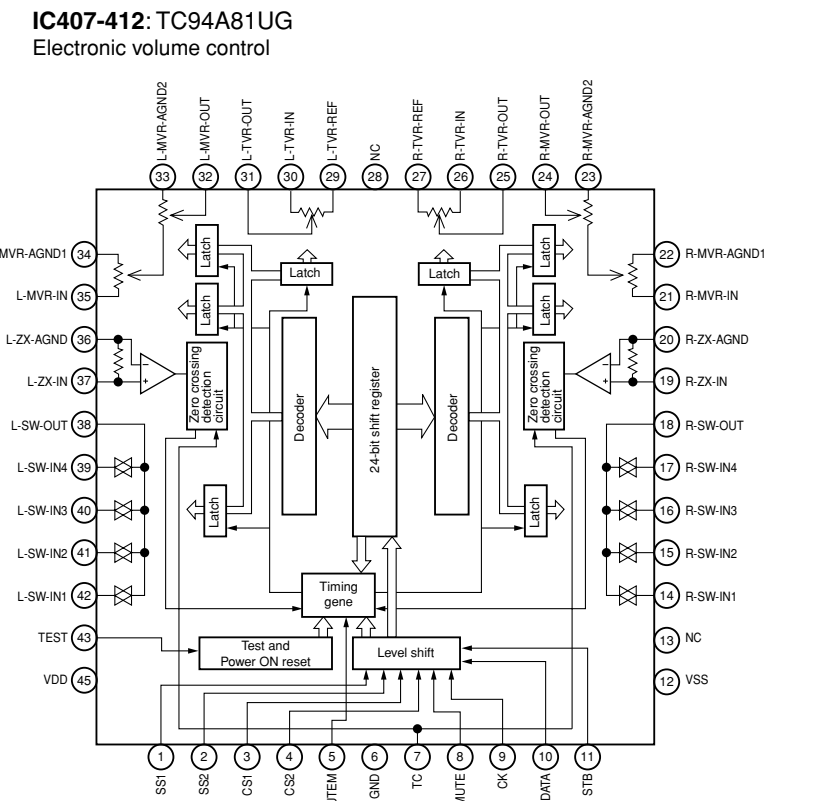
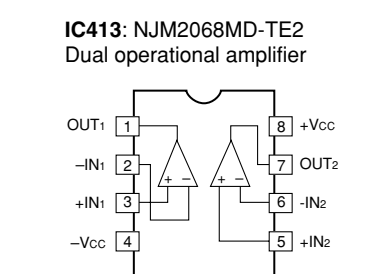
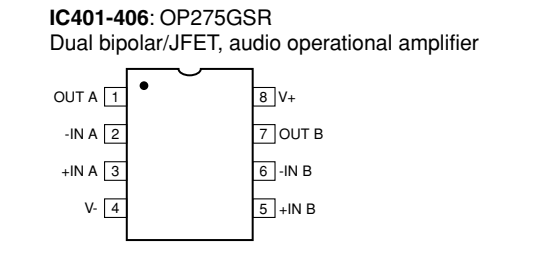
To PWB-MAIN-L W202  
 Page 63 [A8]  
 to MAIN (2) W202

To PWB-FUNC(1) W3003  
 Page 60 [K3]  
 to FUNCTION (1) W3003

To PWB-POWER(2) W6  
 Page 66 [F4]  
 to FRONT (11) W6

To PWB-FRONT(1) -MICON CB517  
 Page 64 [K6]  
 to FRONT (1) CB517

To PWB-MAIN-R W102  
 Page 63 [A3]  
 to MAIN (1) W102



Page 60 [K6]  
 to FUNCTION (1) W3002  
 To PWB-FUNC (1) -INPUT W3002

Page 60 [K4]  
 to FUNCTION (1) W3001  
 To PWB-FUNC (1) -INPUT W3001

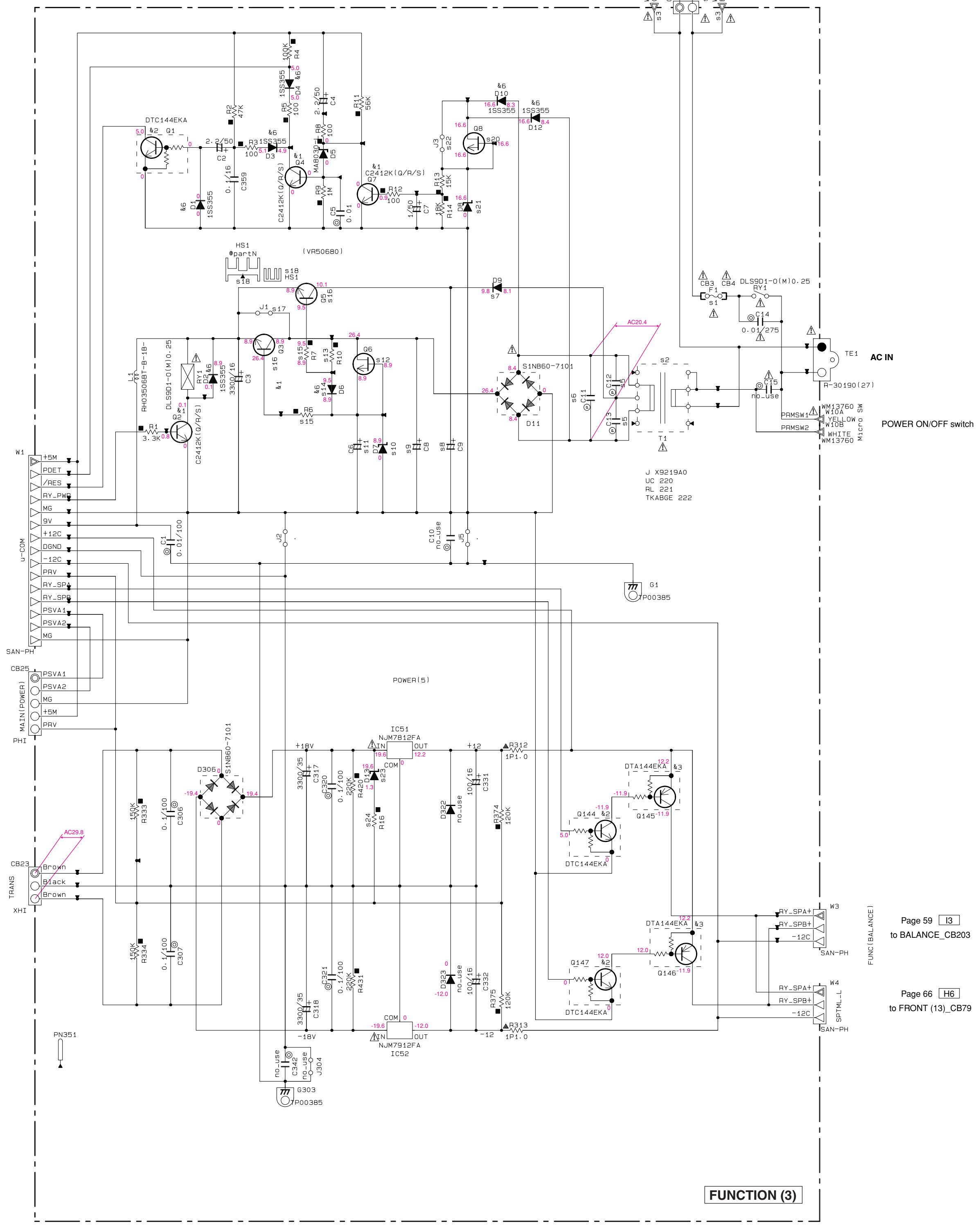
To PWB-FUNC (1) -INPUT W3003  
 To PWB-FUNC (1) -INPUT W3001

FUNCTION (2)

\* All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
 \* Components having special characteristics are marked with a triangle (▲) and must be replaced with parts having specifications equal to those originally installed.  
 \* Schematic diagram is subject to change without notice.  
 ● 電圧は、内部抵抗10MΩの電圧計で測定したものです。  
 ● ▲印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。  
 ● 本回路図は標準回路図です。改良のため予告なく変更することがございます。

FUNCTION 3/3

Page 66 B4 to FRONT (14\_W8A, W8B (R, L models) To POWER TRANSFORMER (U, C, T, K, A, B, G, J models)



Destination Part List table with columns for sXX, LOC, J, UC, RL, TK, A, B, G and rows of component specifications.

NOTICE (model) (J) JAPAN (U) U.S.A (C) CANADA (A) GENERAL (T) CHINA (K) KOREA (A) AUSTRALIA (B) BRITISH (G) EUROPE (L) SINGAPORE (E) SOUTH EUROPE (V) TAIWAN (F) RUSSIAN

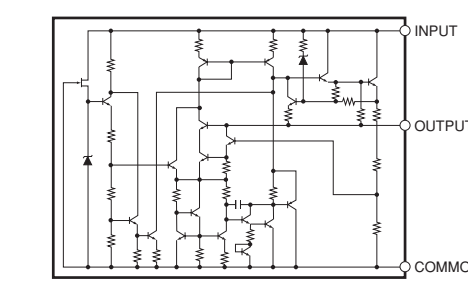
Page 64 B4 to FRONT (1)\_CB501

Page 63 L3 to MAIN (3)\_W317

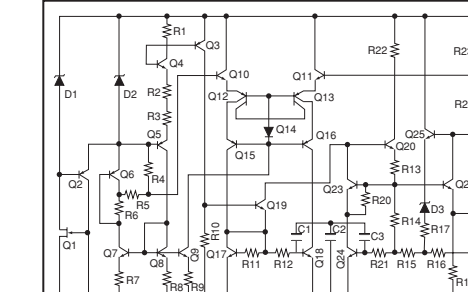
Page 59 I3 to BALANCE\_CB203

Page 66 H6 to FRONT (13)\_CB79

IC51: NJM7812FA Voltage regulator



IC52: NJM7912FA Voltage regulator



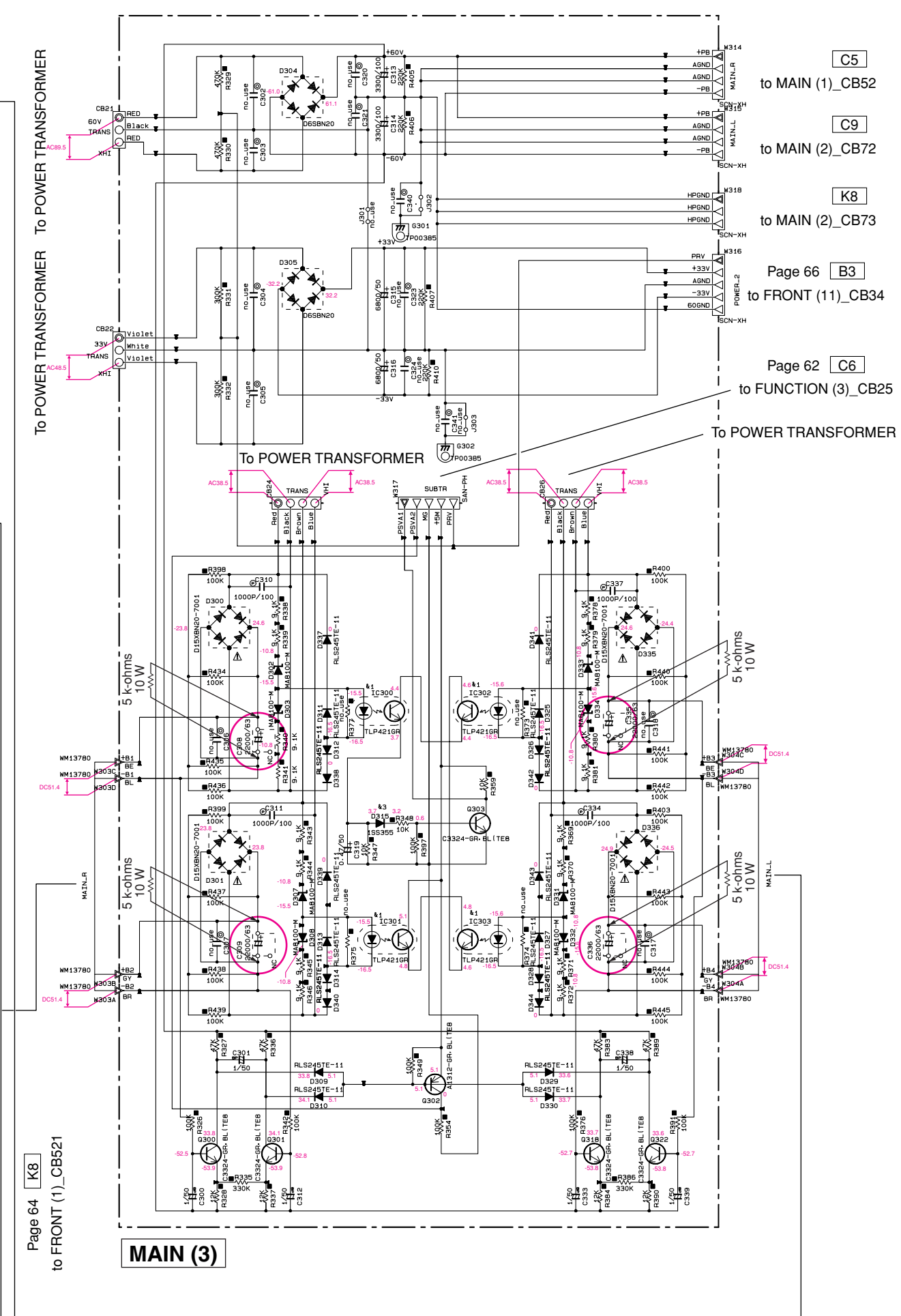
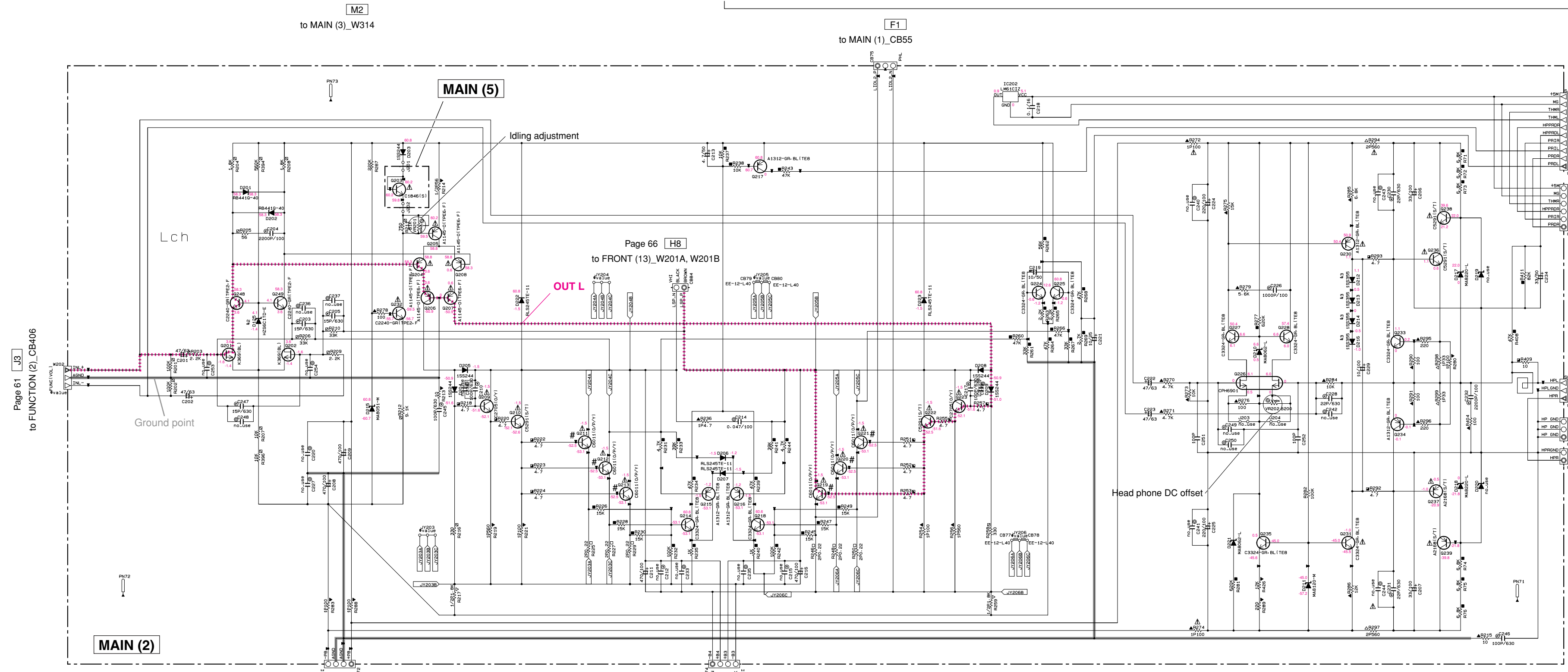
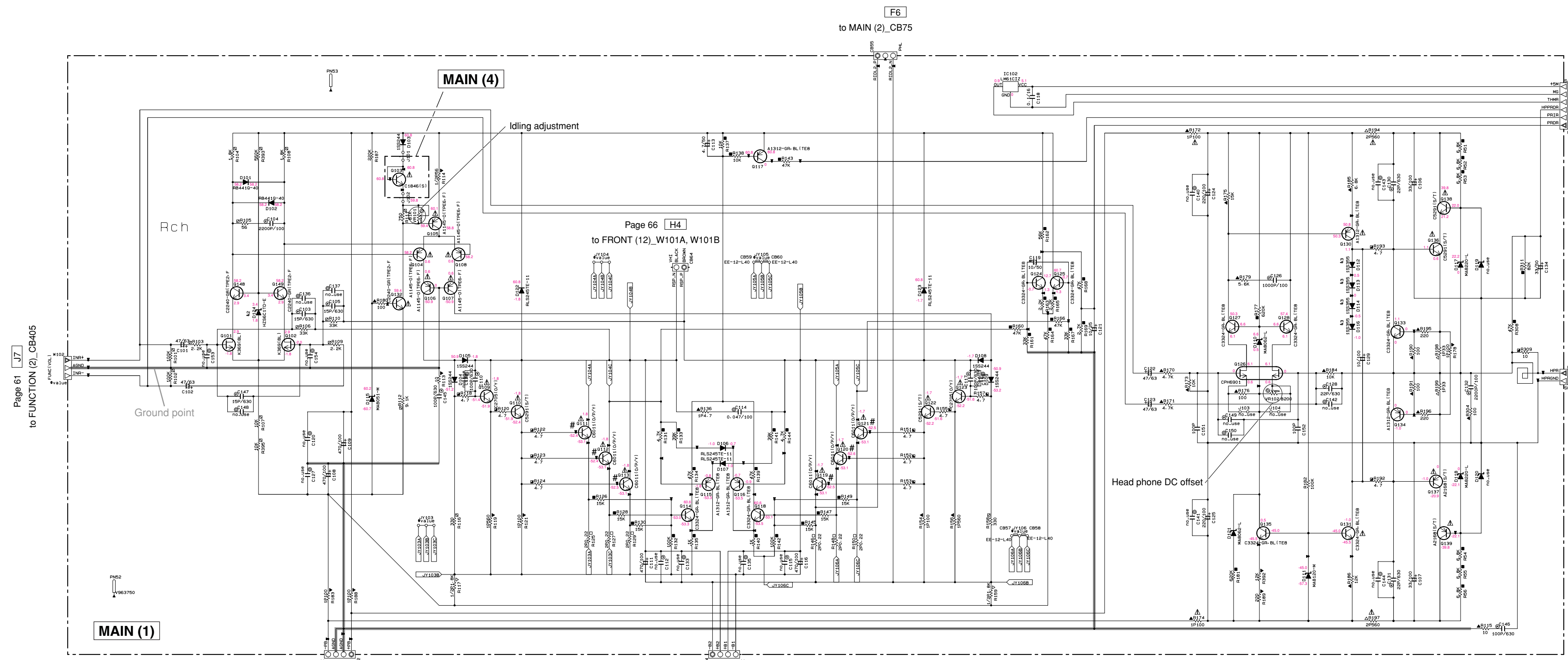
FUNCTION (3)

\* All voltages are measured with a 10MΩ/V DC electronic voltmeter. \* Components having special characteristics are marked ! and must be replaced with parts having specifications equal to those originally installed. \* Schematic diagram is subject to change without notice.

● 電圧は、内部抵抗10MΩの電圧計で測定したものです。 ● !印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。 ● 本回路図は標準回路図です。改良のため予告なく変更することがございます。



MAIN

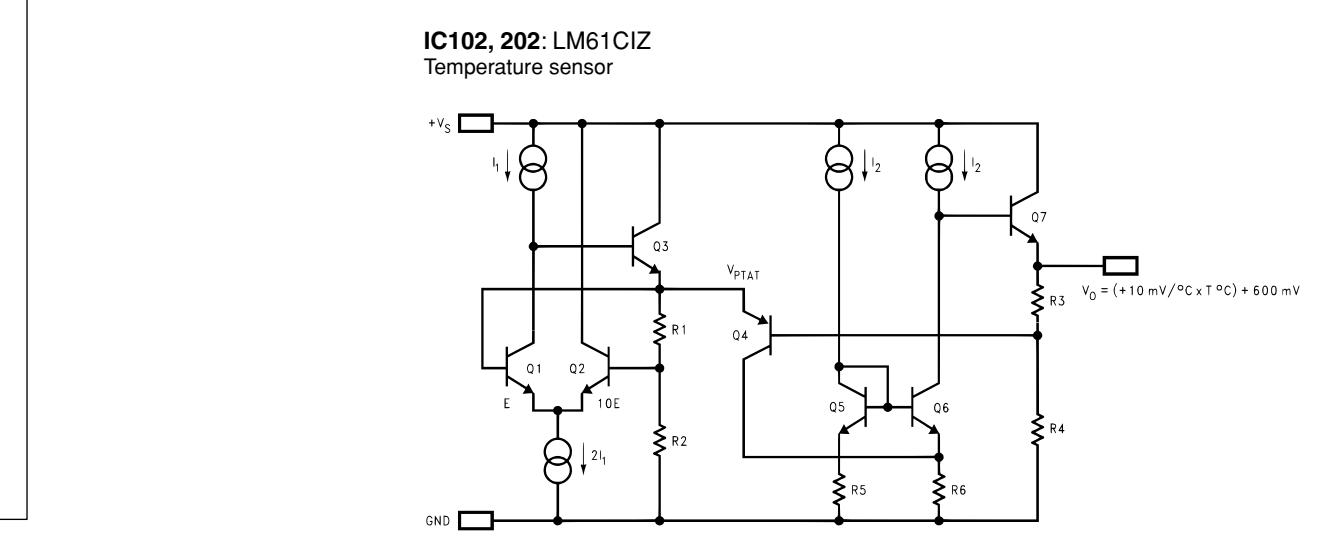


Mark	Reference Parts Number	Parts Name
R1	IC300-303	TP4220R
R2	0104-105	H506C110-E
R3	0101-11A, 11B, 20P-214, 216, 315	M4111
		M4115
		M4108-80V-P

Page 64 [C9] to FRONT (2)\_CB504

to MAIN (3)\_W318

Page 64 [K9]



**Safety measures**

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that positions indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, perform discharge by connecting a discharge resistor (5k-ohms/10W) between terminals at following positions. The time required for discharging is about 30 seconds.

- C308 on MAIN (3) P.C.B.
- C309 on MAIN (3) P.C.B.
- C335 on MAIN (3) P.C.B.
- C336 on MAIN (3) P.C.B.

**安全対策**

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記箇所には電源をOFFにした後も電荷が残り、高電圧が維持されており危険です。修理作業前に放電用抵抗(5kΩ/10W)を下記箇所の端子間に接続して放電してください。放電所用時間は約30秒間です。

- MAIN (3) P.C.B.のC308
- MAIN (3) P.C.B.のC309
- MAIN (3) P.C.B.のC335
- MAIN (3) P.C.B.のC336

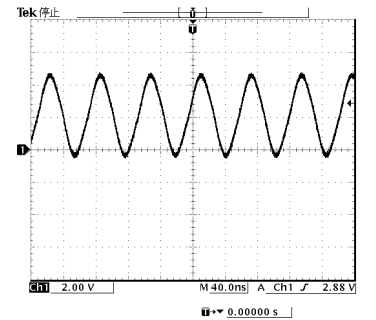
- All voltages are measured with a 10MΩV DC electronic voltmeter.
- Components having special characteristics are marked #, and must be replaced with parts having specifications equal to those originally installed.
- Schematic diagram is subject to change without notice.

- 電圧は、内部抵抗10MΩの電圧計で測定したものです。
- 上印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
- 本回路図は標準回路図です。改良のため予告なく変更することがございます。

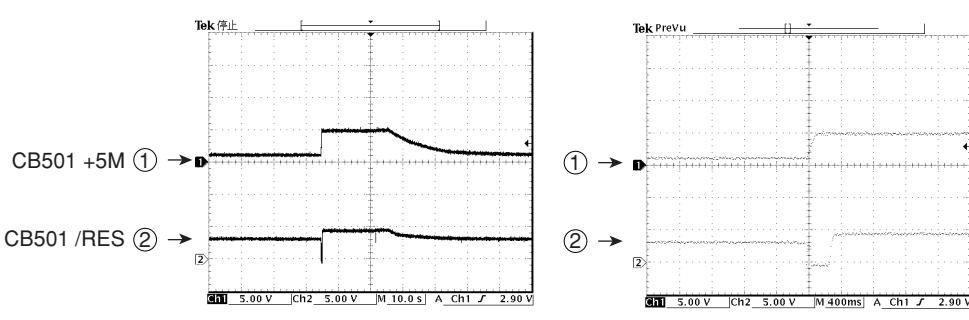


FRONT 1/3

POINT (A-1) XL501 (Pin 23 of IC502)



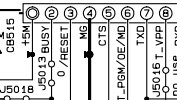
POINT (A-2)(A-3) Pin 1, ② / Pin 3 of CB501



POWER ON POWER OFF

POWER ON

Writing port



FRONT (9)



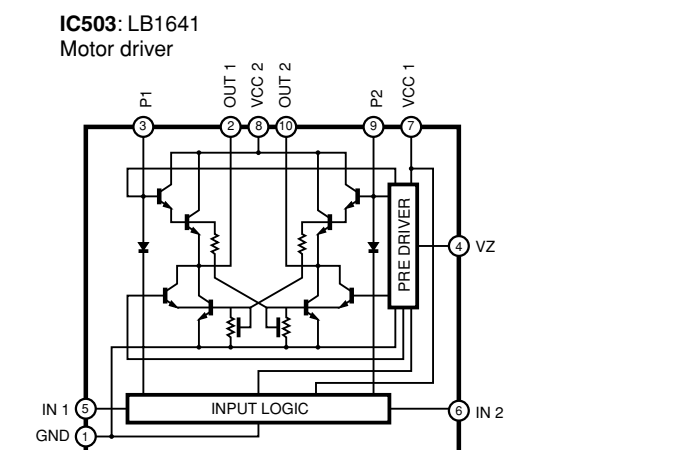
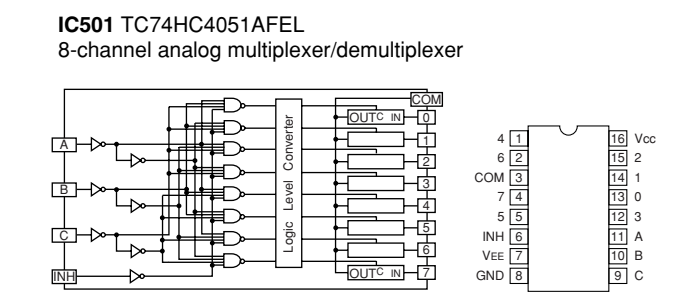
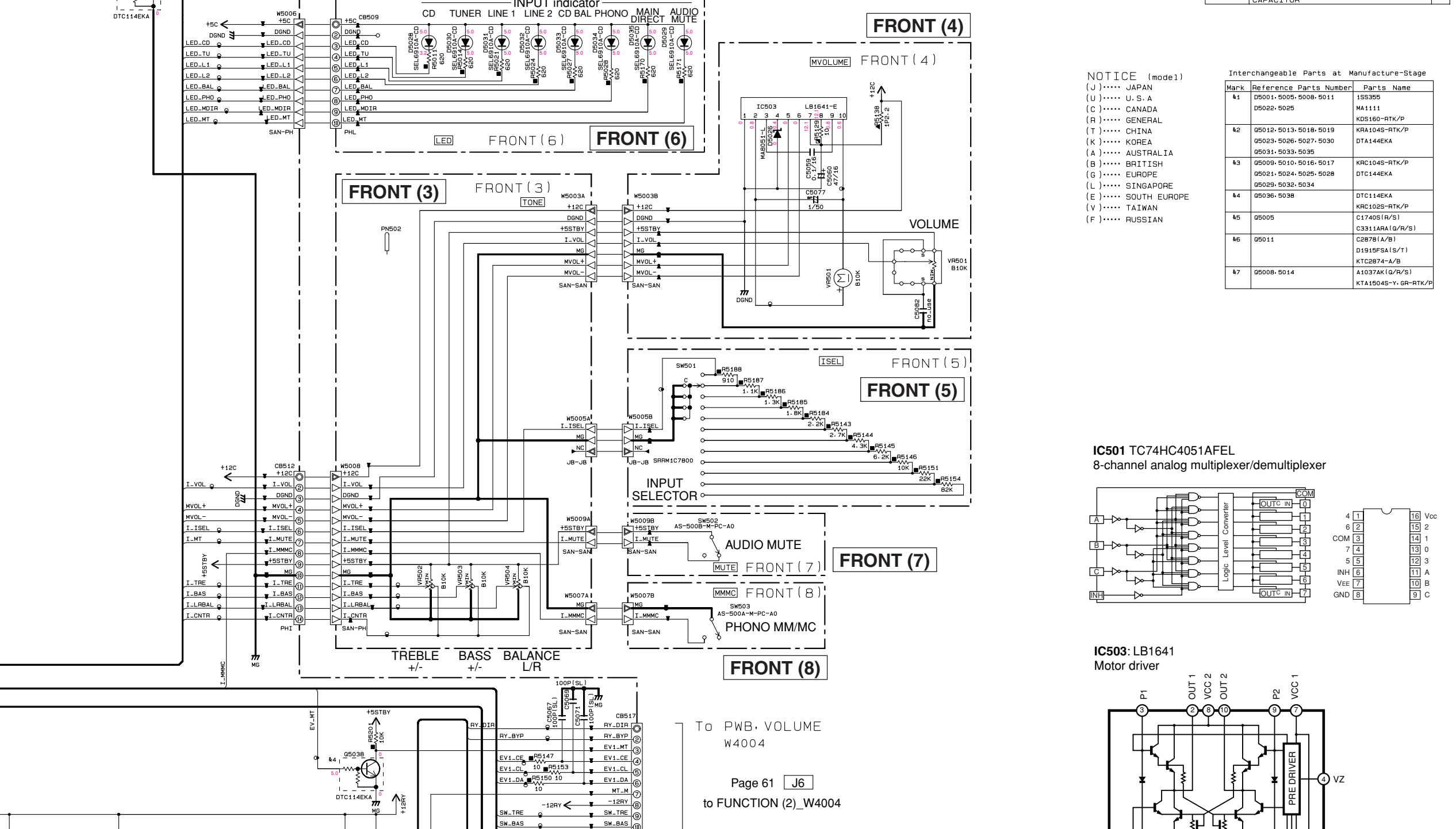
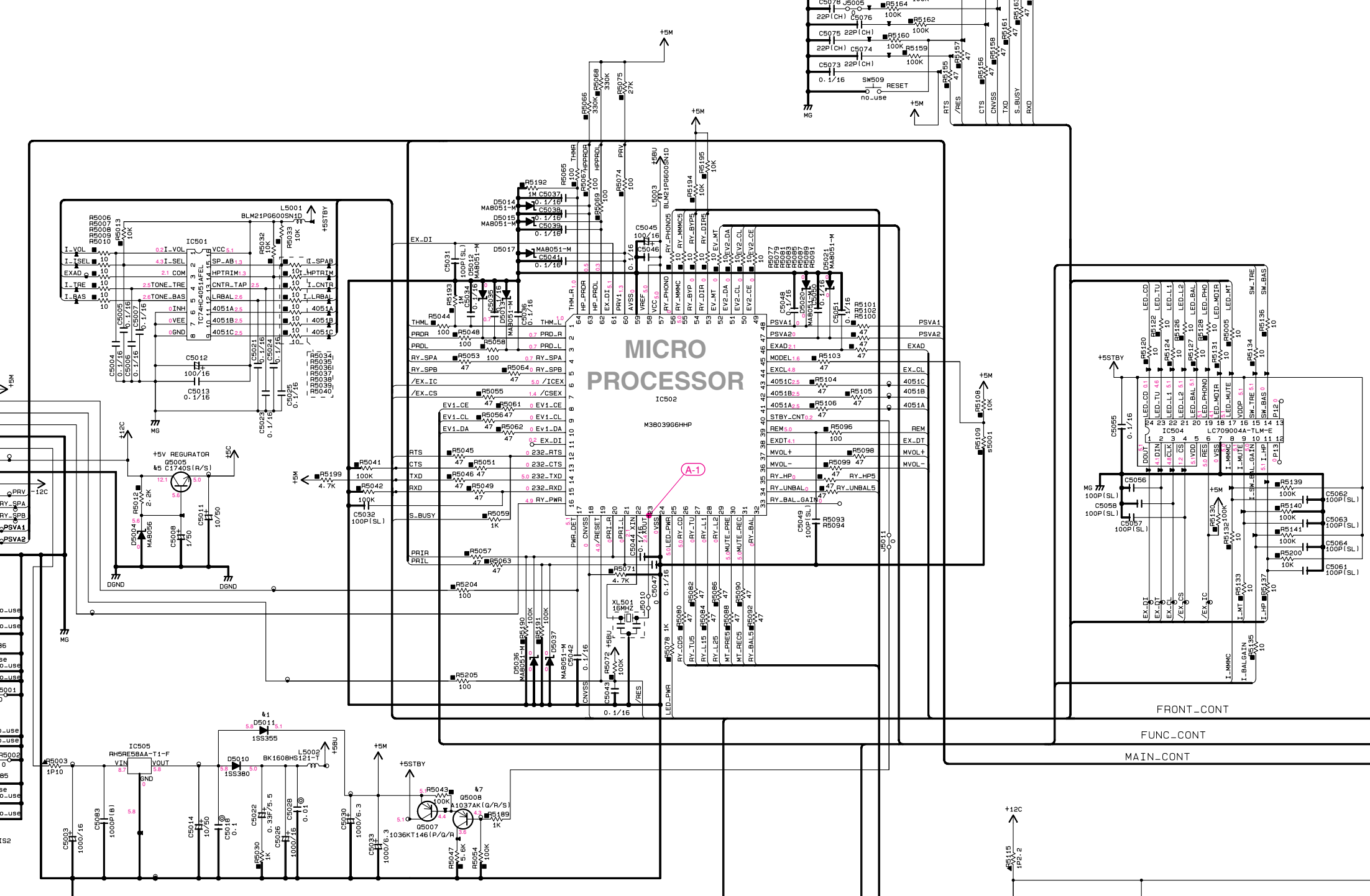
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W4992, W4993, W4994, W4995, W4996, W4997, W4998, W4999, W5000.

RESISTOR PARTS NAME table with columns: NO, MARK, PARTS NAME, REMARKS.

CAPACITOR PARTS NAME table with columns: NO, MARK, PARTS NAME, REMARKS.

NOTICE (note1) (U) JAPAN (U) U.S.A (C) CANADA (B) GENERAL (T) CHINA (K) KOREA (A) AUSTRALIA (E) BRITISH (G) EUROPE (L) SINGAPORE (S) SOUTH EUROPE (V) TAIWAN (F) RUSSIAN

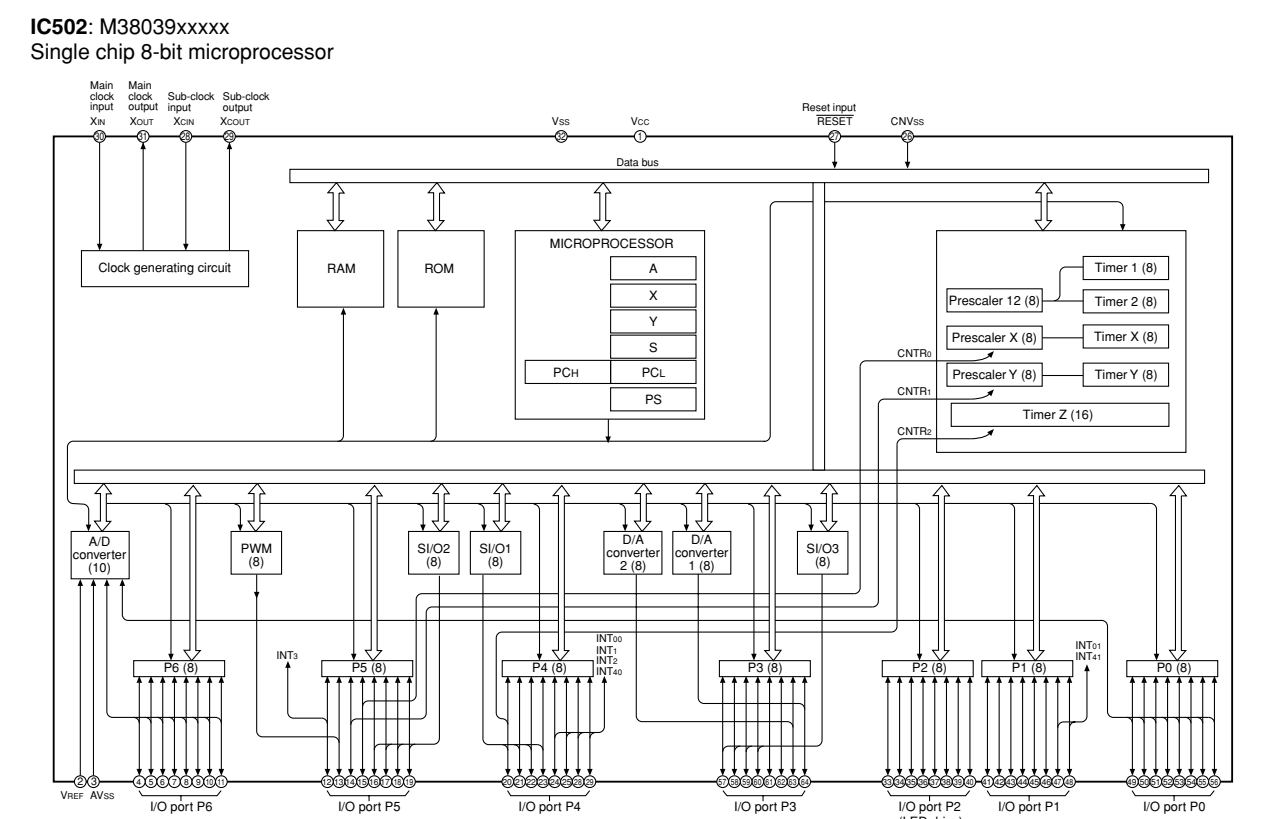
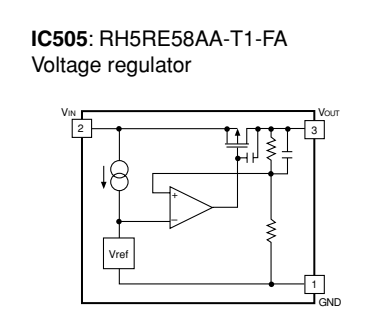
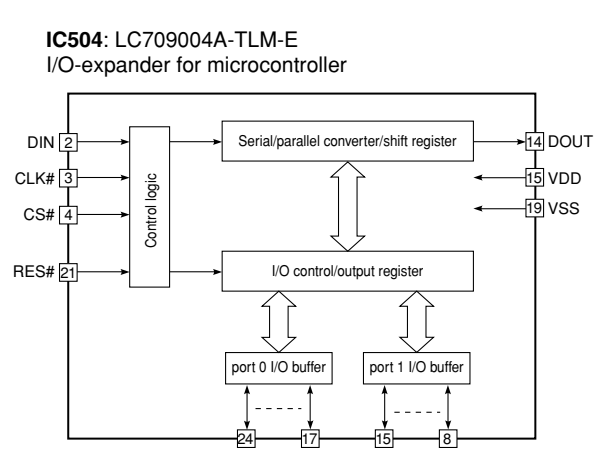
Interchangeable Parts at Manufacture Stage table with columns: Mark, Reference Parts Number, Parts Name.



To PWB. VOLUME W4004 Page 61 J6 to FUNCTION (2), W4004

To PWB. INPUT W3004 Page 60 K8 to FUNCTION (1), W3004

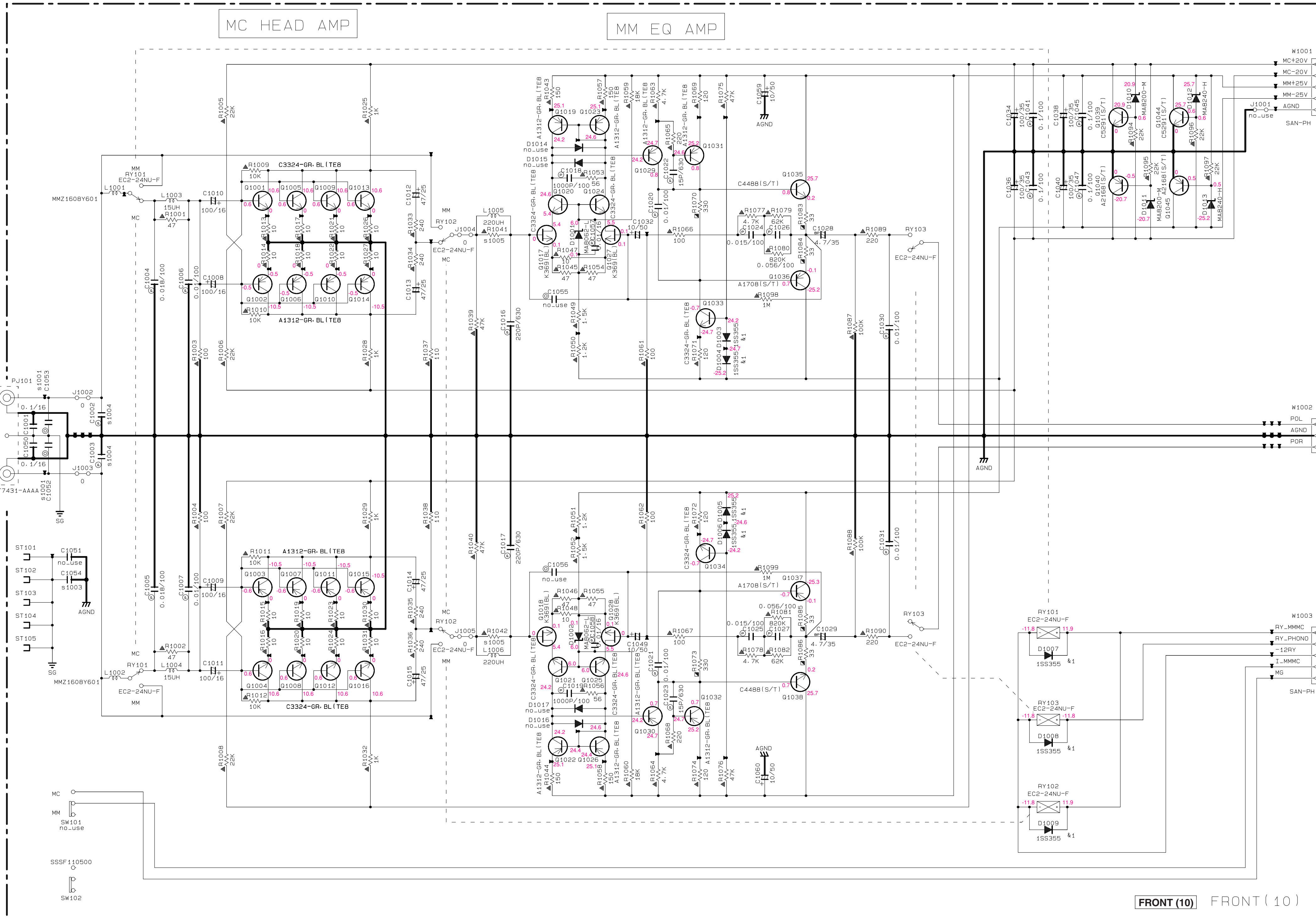
To PWB. MAIN-R W202 Page 63 K6 to MAIN (2), W203



All voltages are measured with a 10MΩ/V DC electronic voltmeter. Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally installed. Schematic diagram is subject to change without notice.

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Page 66 G3 to FRONT (11)\_CB27

Page 60 B3 to FUNCTION (1)\_CB301

Page 60 K9 to FUNCTION (1)\_CB305

FRONT (10) FRONT (10)

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊙	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
Ⓜ	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
Ⓢ	SEMICONDUCTIVE CERAMIC CAPACITOR
Ⓣ	POLYPHENYLENE SULFIDE FILM CAPACITOR

NOTICE (model)

(J)..... JAPAN  
 (U)..... U. S. A  
 (C)..... CANADA  
 (R)..... GENERAL  
 (T)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (L)..... SINGAPORE  
 (E)..... SOUTH EUROPE  
 (V)..... TAIWAN  
 (F)..... RUSSIAN

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	D1003-1009	1SS355 MA111 KDS160-RTK/P

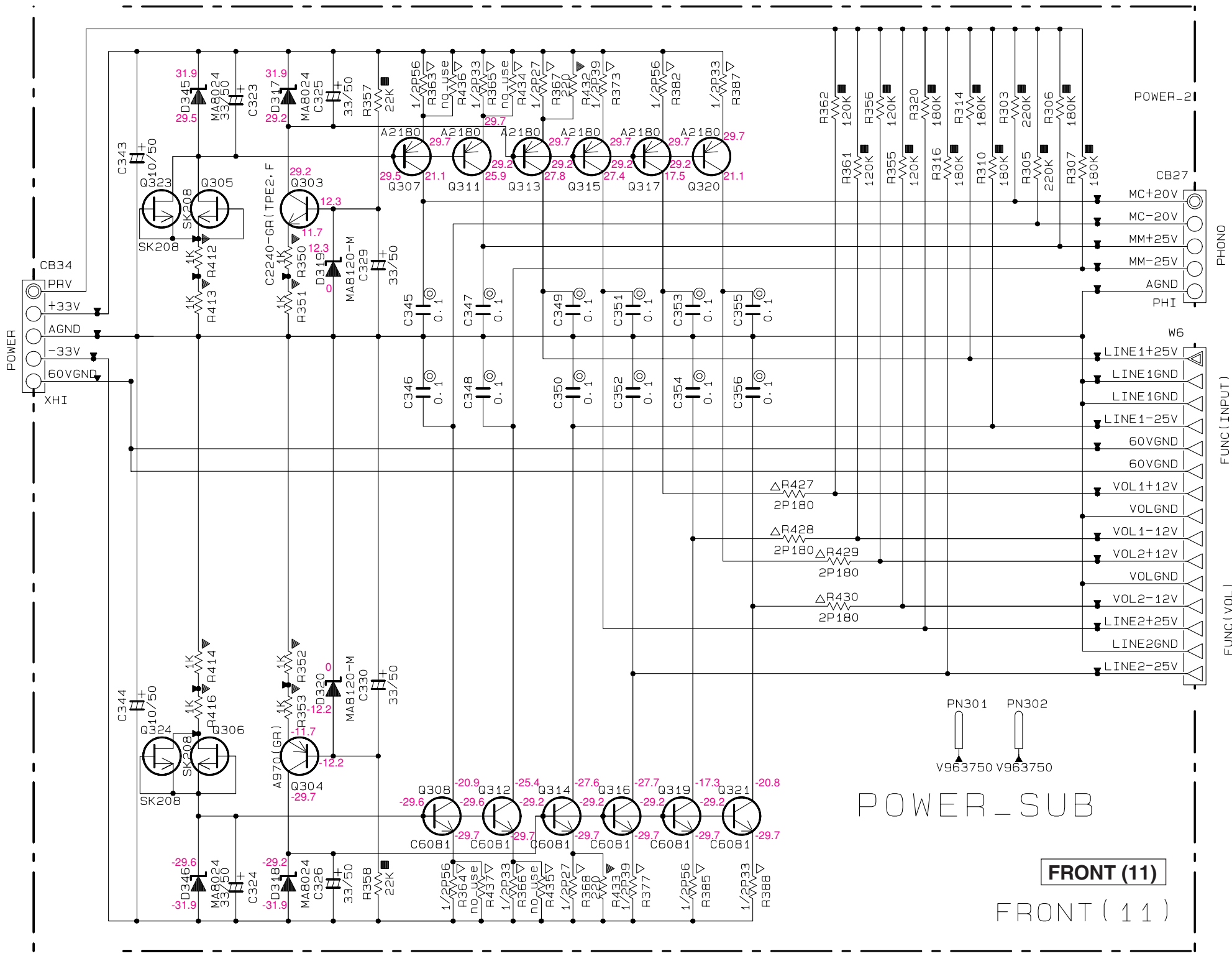
★ All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
 ★ Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally installed.  
 ★ Schematic diagram is subject to change without notice.

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 ● 本回路図は標準回路図です。改良のため予告なく変更することがございます。



FRONT 3/3

Page 63 [M2] to MAIN (3)\_W316



Page 59 [I2] to BALANCE\_W2001

Page 61 [J5] to FUNCTION (2)\_CB404

Page 63 [E3] to MAIN (1)\_CB4

Page 62 [H8] to FUNCTION (3)\_W4

Page 63 [E7] to MAIN (2)\_CB4

Page 62 [G2] to FUNCTION (3)\_CB2

NOTICE (mode1)  
 (J)..... JAPAN  
 (U)..... U. S. A  
 (C)..... CANADA  
 (R)..... GENERAL  
 (T)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (E)..... SINGAPORE  
 (V)..... TAIWAN  
 (F)..... RUSSIAN

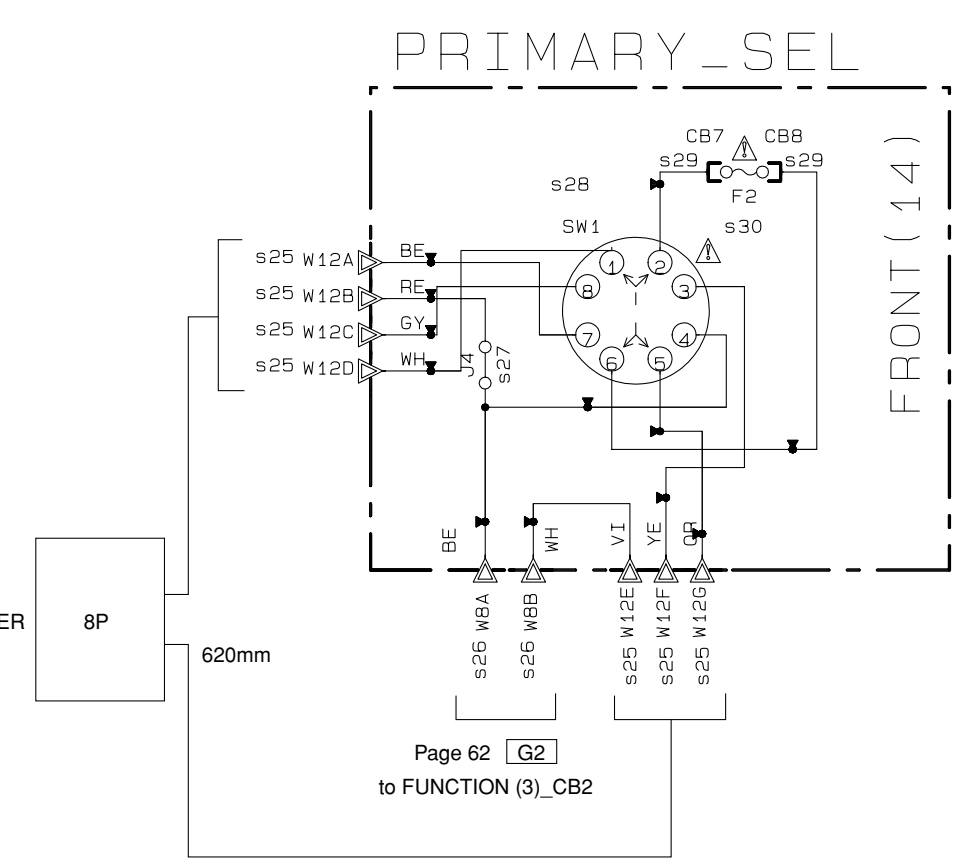
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☒	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊕	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
Ⓜ	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
Ⓢ	SEMICONDUCTIVE CERAMIC CAPACITOR
Ⓣ	POLYPHENYLENE SULFIDE FILM CAPACITOR

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	D122-123	1SS355 MA111 KDS160-RTK/P

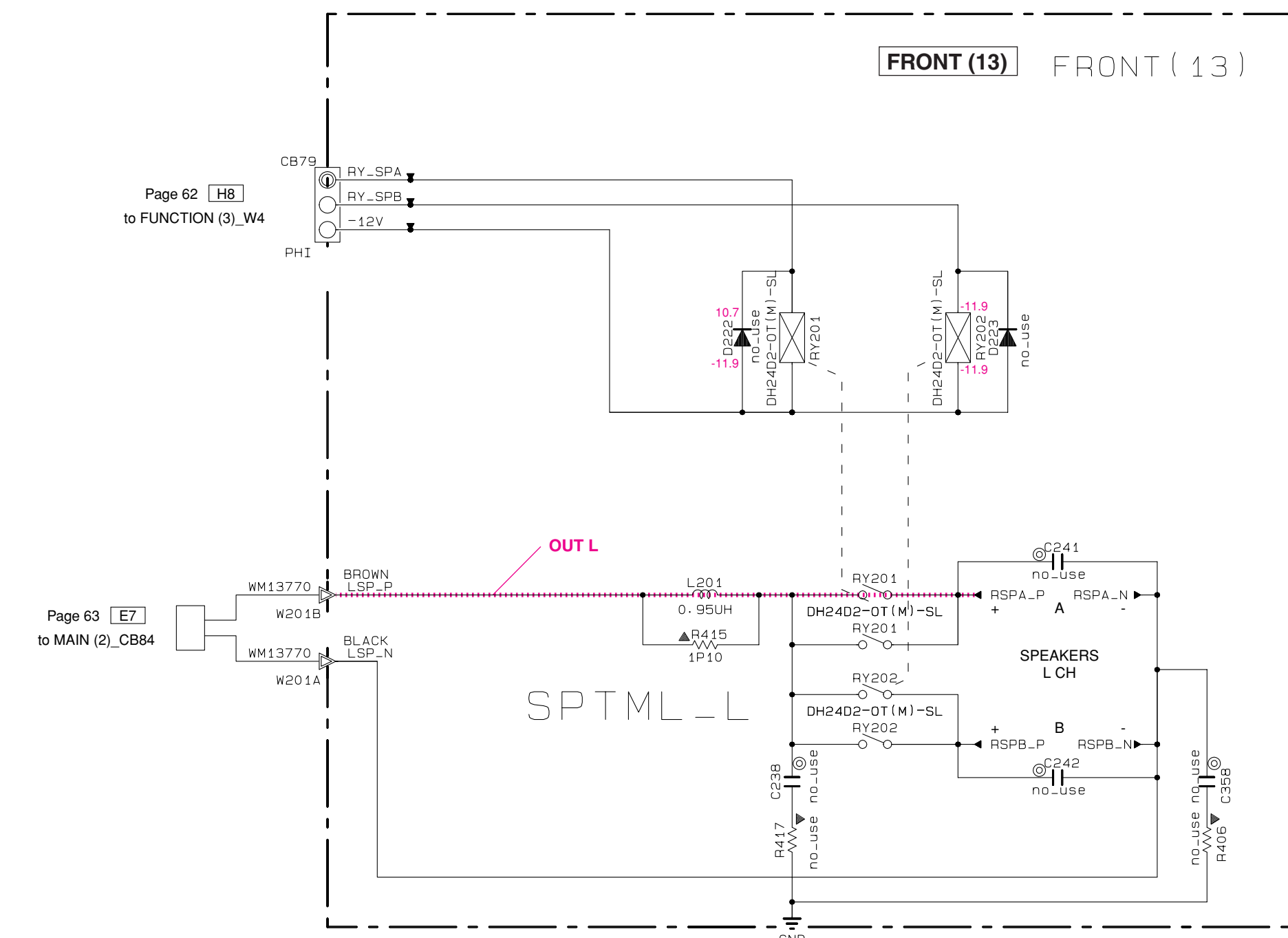
FRONT (14) R, L models



VOLTAGE SELECTOR

230-240V	1-2, 5-6
220V	2-3, 6-7
110V	3-4, 7-8
120V	4-5, 8-1

FRONT (13) FRONT (13)



★ All voltages are measured with a 10MΩ/V DC electronic voltmeter.  
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 ★ Schematic diagram is subject to change without notice.  
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