

Service Manual

Audio System

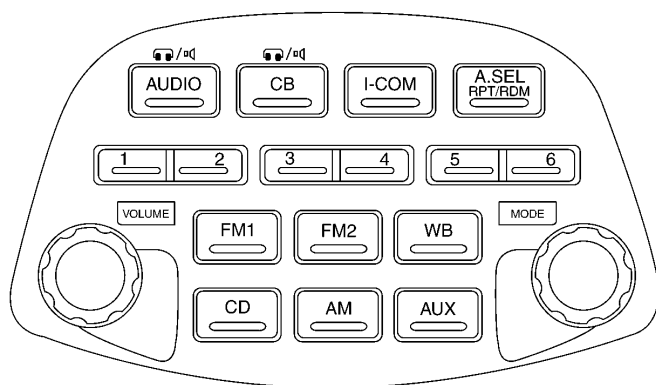
RM-G45PA

Colour

(K).....Black Type

Area

(A).....U.S.A.



Specifications

General

Power supply:	DC 12 V
Power consumption:	Less than 8 A
Dimensions (W×H×D):	238×75×208 mm
Weight:	1.14 kg

Amplifier section

Main amplifier:	25 W×4 (3 Ω, THD 10 %)
Head set:	1 W×4 (8 Ω, THD 10 %)

Tuner section

Tuning mode:	PLL synthesizer
Frequency range:	
FM;	87.5 – 107.9 MHz
AM;	530 – 1710 kHz
WB;	162.400 – 162.550 MHz
Intermediate frequency:	
FM;	10.7 MHz
AM;	10.71 MHz (1 st), 450 kHz (2 nd)
WB;	10.625, 10.700, 10.775 MHz (1 st), 450 kHz (2 nd)

Usable sensitivity:

FM;	Less than 15 dBμV
AM;	Less than 35 dBμV
WB;	Less than 10 dBμV

Image interference:

FM;	More than 35 dB
AM;	More than 40 dB
WB;	More than 16 dB

S/N:

FM;	More than 45 dB
AM;	More than 40 dB
WB;	More than 40 dB

Separation:

FM;	More than 20 dB
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Antenna section

Impedance:	75 Ω (unbalanced)
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Notes: Specifications are subject to change without notice.
Weights and dimensions are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

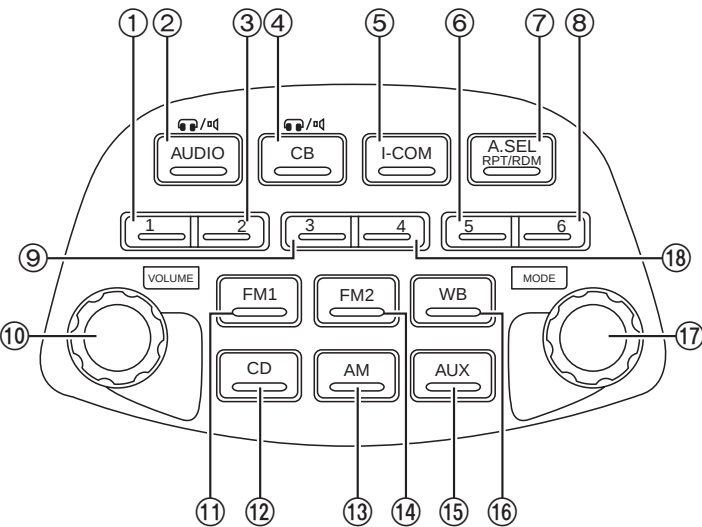
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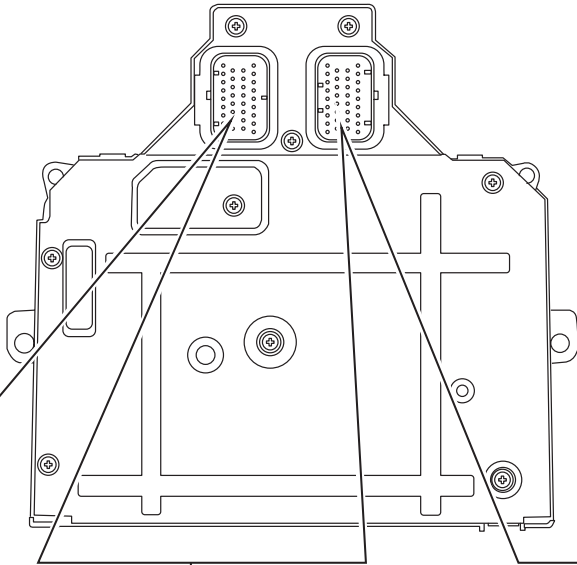
1 Location of Controls

<Front side>

- ① Preset channel (1) button
- ② Audio button
- ③ Preset channel (2) button
- ④ CB button
- ⑤ I-COM button
- ⑥ Preset channel (5) button
- ⑦ A.SEL RPT/RDM button
- ⑧ Preset channel (6) button
- ⑨ Preset channel (3) button
- ⑩ Volume knob
- ⑪ FM1 button
- ⑫ CD button
- ⑬ AM button
- ⑭ FM2 button
- ⑮ AUX button
- ⑯ WB button
- ⑰ MODE knob
- ⑱ Preset channel (4) button



<Rear side>



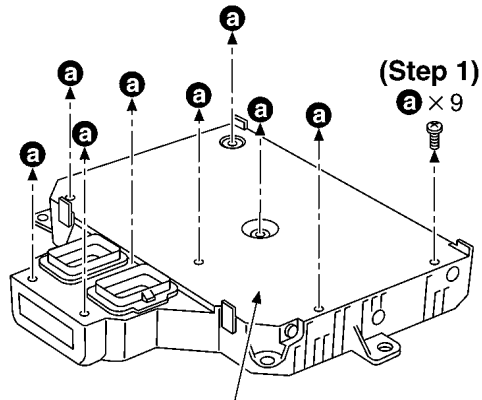
I/O connector		I/O connector	
1. FL (+)	24. SW KS3	1. AUX L	24. CB MIC OUT
2. FL (-)	25. DISP REQ	2. BUS L (-)	25. CB MIC GND
3. FR (+)	26. GND (MAIN)	3. BUS L (+)	26. STARTER (MUTE)
4. FR (-)	27. HS MIC DR	4. BUS R (-)	27. CB STARTER (MUTE)
5. RR (+)	28. HS MIC PA	5. BUS R (+)	28. CB AUDIO GND
6. RR (-)	29. HS MIC E(D)	6. BUS (-)	29. CB AUDIO IN
7. DISP GND	30. HS MIC E(P)	7. BUS (+)	30. CB RST
8. DISP SO	31. SW K14	8. BUS SYS ACC	31. CB PTT
9. DISP SCK	32. SW K12	9. BUS +B	32. CB SO
10. RL (+)	33. VBAT (ACC)	10. AUX R	33. CB SI
11. RL (-)	34. BU	11. BUS AUDIO GND	34. CB SCK
12. HS OUT L(P)		12. BUS GND	
13. HS OUT L(D)		13. BUS GND	
14. SW GND		14. BUS ILLUMI	
15. SW K13		15. NC	
16. SW K11		16. NC	
17. DISP CE		17. MUTE IN	
18. HS OUT R(P)		18. AUX GND	
19. HS OUT R(D)		19. PULSE	
20. HS OUT E(P)		20. CB AUDIO MUTE	
21. HS OUT E(D)		21. CB PERM	
22. SW KS1		22. CB DET	
23. SW KS2		23. CB SHIELD	

2 Disassembly Instructions

[Repair Advisory]

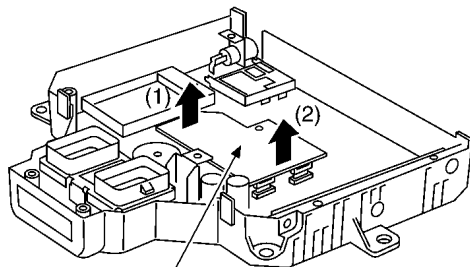
Prior to any repair, use the air gun to prevent the panel buttons from being damaged by dust and sand particles.

2.1. Removal of the main P.C.B. and sub (1) P.C.B.

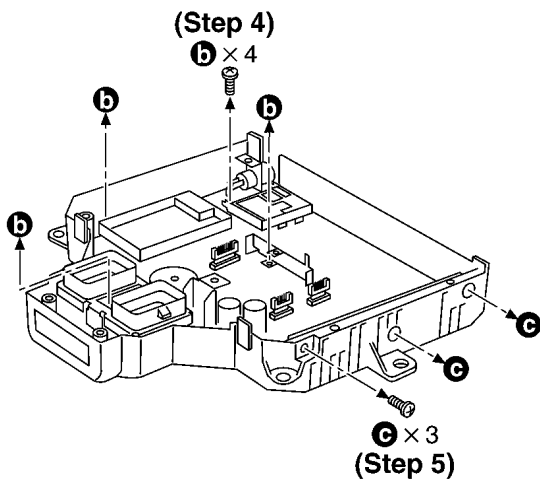


(Step 2)
Remove the bottom plate.

(Step 3)
Pull out the sub (1) P.C.B. in the direction of arrow (1), and remove it in the direction of arrow (2).

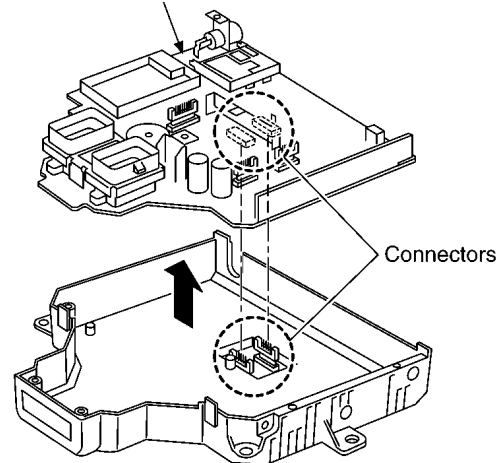


Sub (1) P.C.B.



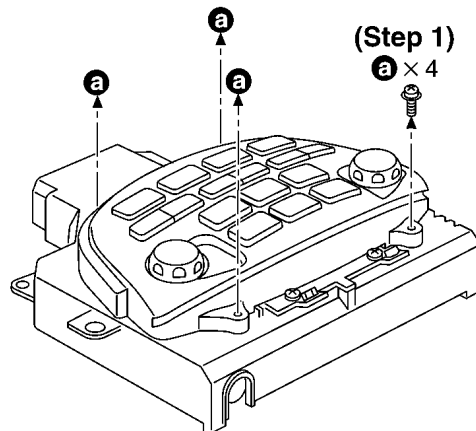
(Step 6)

Lift up the main P.C.B..

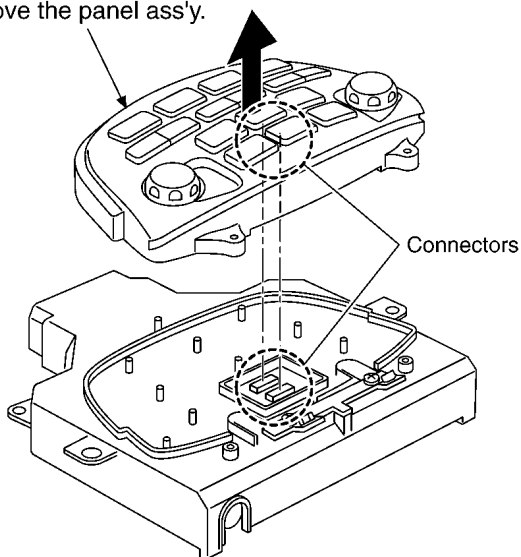


NOTE:
When installing the main P.C.B., insert the connectors on the straight carefully.

2.2. Removal of the operation P.C.B.

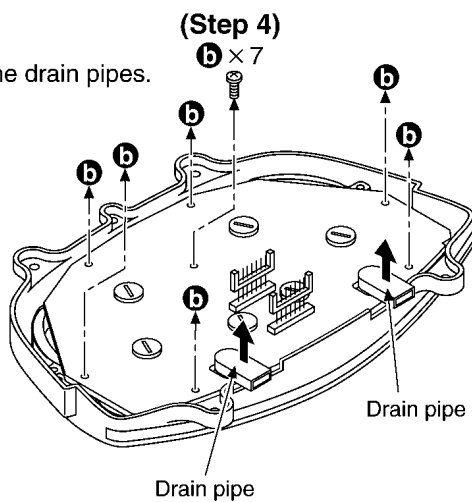


(Step 2)
Remove the panel ass'y.



NOTE:
When installing the panel ass'y, insert the connectors on the straight carefully.

(Step 3)
Pull out the drain pipes.



(Step 4)

b × 7

Drain pipe

Drain pipe

■ Notice for installation of the drain pipe

Position the drain pipe as illustration Fig.1.

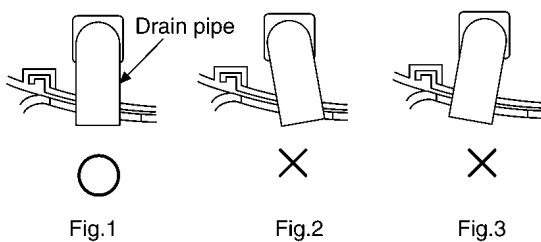
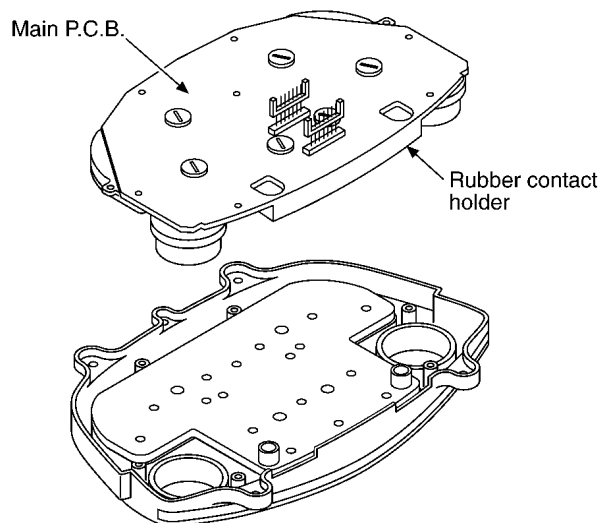


Fig.1

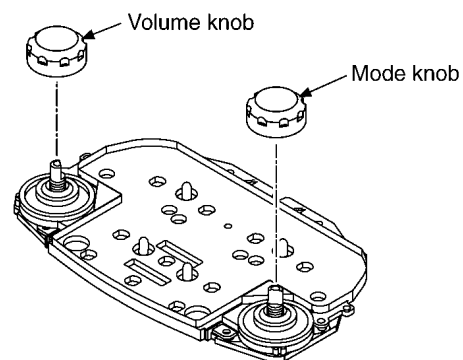
Fig.2

Fig.3

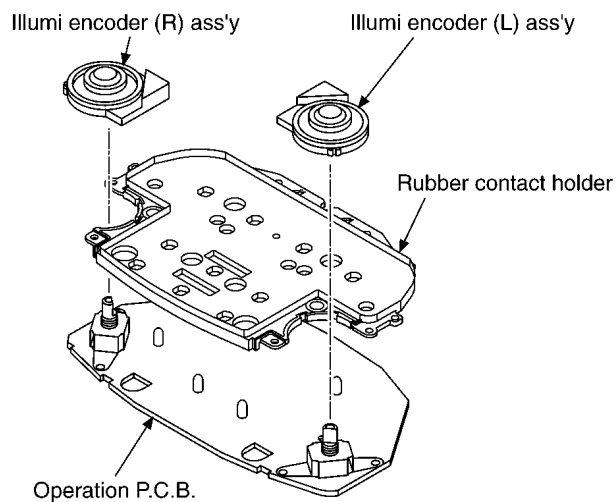
(Step 5)
Remove the main P.C.B. and rubber contact holder.



(Step 6)
Pull out the volume knob and mode knob.



(Step 7)
Remove the illumi encorder (R) ass'y, illumi encoder (L) ass'y and rubber contact holder.

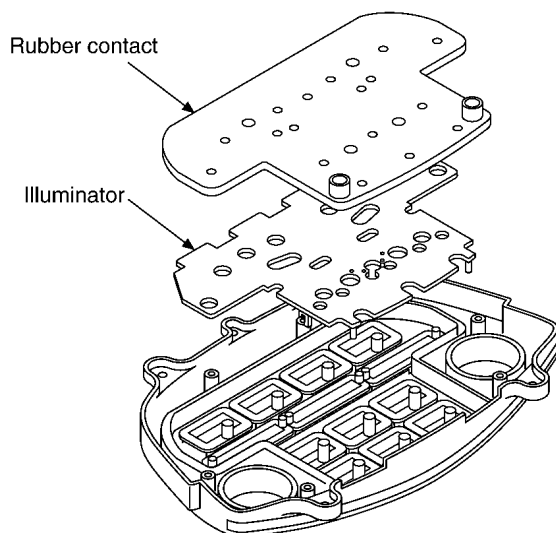


2.3. Removal of the rubber contact, illuminator and buttons

- Follow the (Step 1) - (Step 5) of item 2.2.

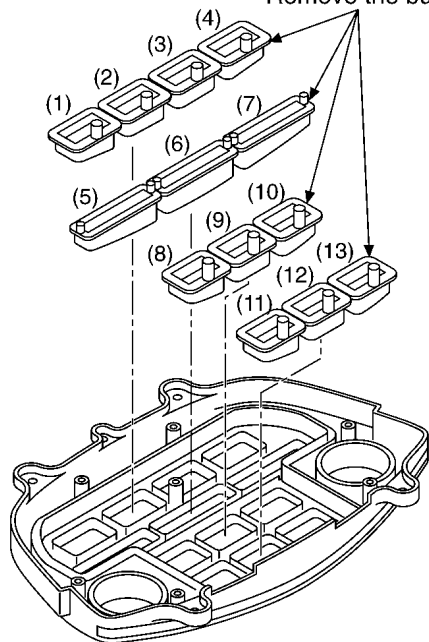
(Step 1)

Remove the rubber contact and illuminator.



(Step 2)

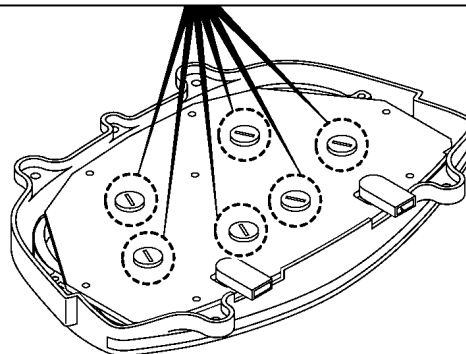
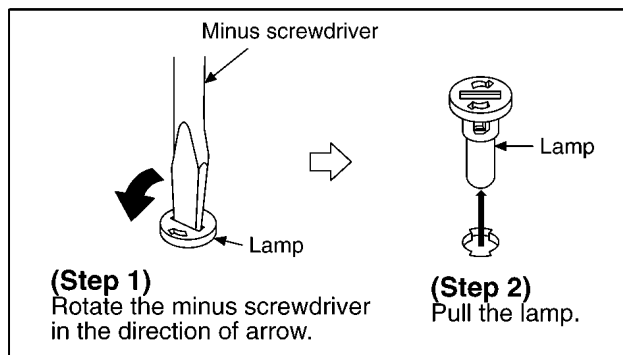
Remove the buttons.



- | | |
|------------------------------|---------------------|
| (1) ... A.SEL RPT/RDM button | (8) ... WB button |
| (2) ... I-COM button | (9) ... FM2 button |
| (3) ... CB button | (10) ... FM1 button |
| (4) ... AUDIO button | (11) ... AUX button |
| (5) ... 5, 6 button | (12) ... AM button |
| (6) ... 3, 4 button | (13) ... CD button |
| (7) ... 1, 2 button | |

2.4. Removal of the lamp

- Follow the (Step 1) , (Step 2) of item 2.2.



3 Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

S602:	Mode switch (MODE)
S603:	Volume mode switch (V MODE)
S651:	Audio switch (AUDIO)
S652:	CB select switch (CB)
S653:	Preset channel 1 switch (CH1)
S654:	Preset channel 2 switch (CH2)
S655:	Preset channel 4 switch (CH4)
S656:	Preset channel 5 switch (CH5)
S658:	I-com switch (I-COM)
S659:	Auto select/repeat switch (A.SEL/RPT)
S660:	Preset channel 3 switch (CH3)
S661:	Preset channel 6 switch (CH6)
S662:	FM1 select switch (FM1)
S663:	FM2 select switch (FM2)
S664:	Weather band select switch (WB)
S665:	Aux switch (AUX)
S666:	AM select switch (AM)
S667:	CD select switch (CD)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark	: FM
()	: AM
< >	: WB

- Important safety notice:

Components identified by $\triangle$ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- The supply part number is described alone in the replacement parts list.
- Voltage and signal line

	: Positive voltage line
	: FM signal line
	: FM/AM OSC signal line
	: AM signal line
	: WB signal line
	: WB OSC signal line
	: FM/AM/WB Vcap cont. signal line
	: Main signal line

Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

Do not touch the legs of IC or LSI with the fingers directly.

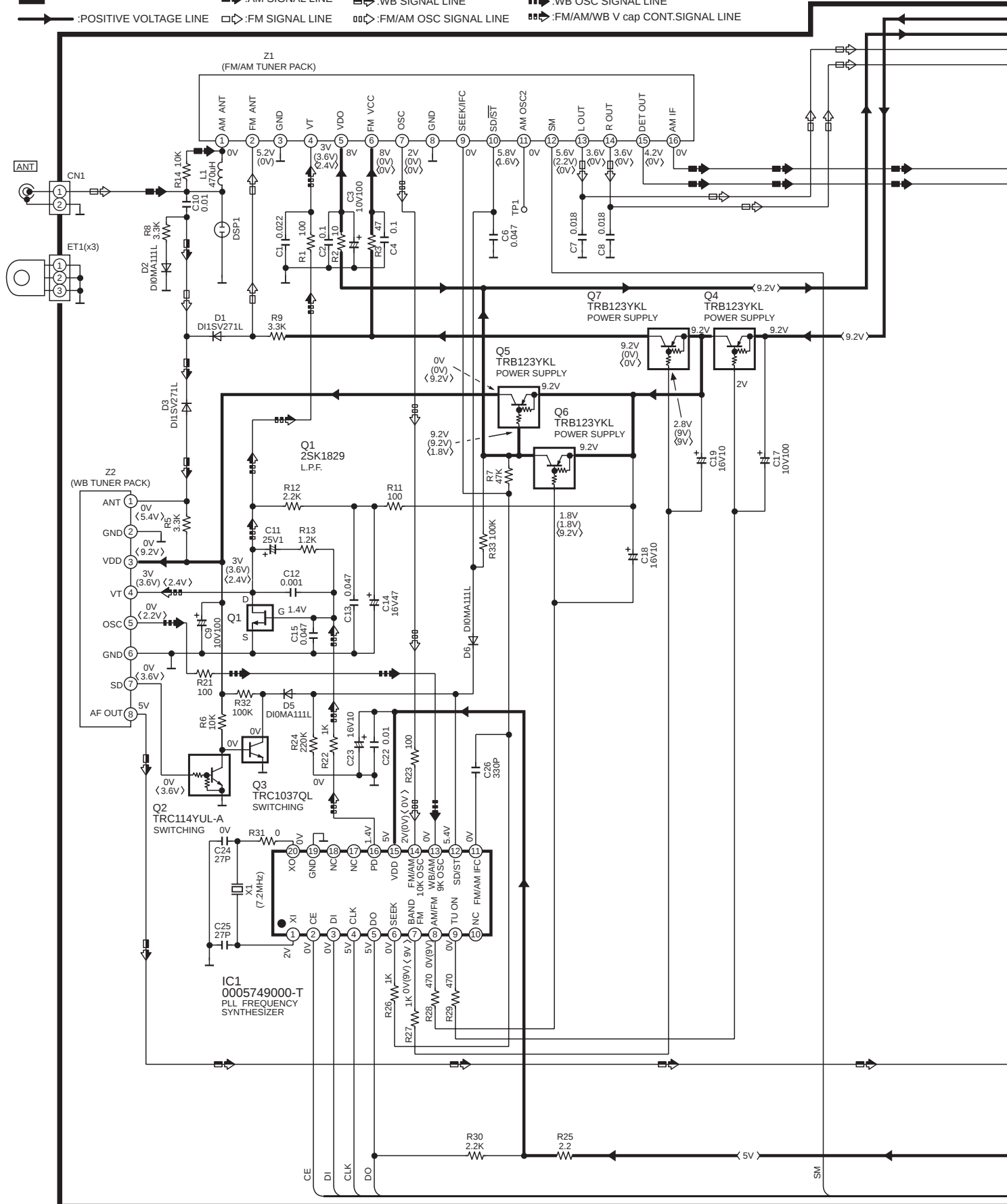
4 Schematic Diagram

SCHEMATIC DIAGRAM-1

Note: The number which noted at the connectors on the schematic diagram as "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2" indicates the schematic diagram serial number located on the left corner in the schematic diagram.

A MAIN CIRCUIT

■ :AM SIGNAL LINE ■ :WB SIGNAL LINE ■ :WB OSC SIGNAL LINE
 — :POSITIVE VOLTAGE LINE □ :FM SIGNAL LINE □ :FM/AM OSC SIGNAL LINE ■ :FM/AM/WB V cap CONT.SIGNAL LINE



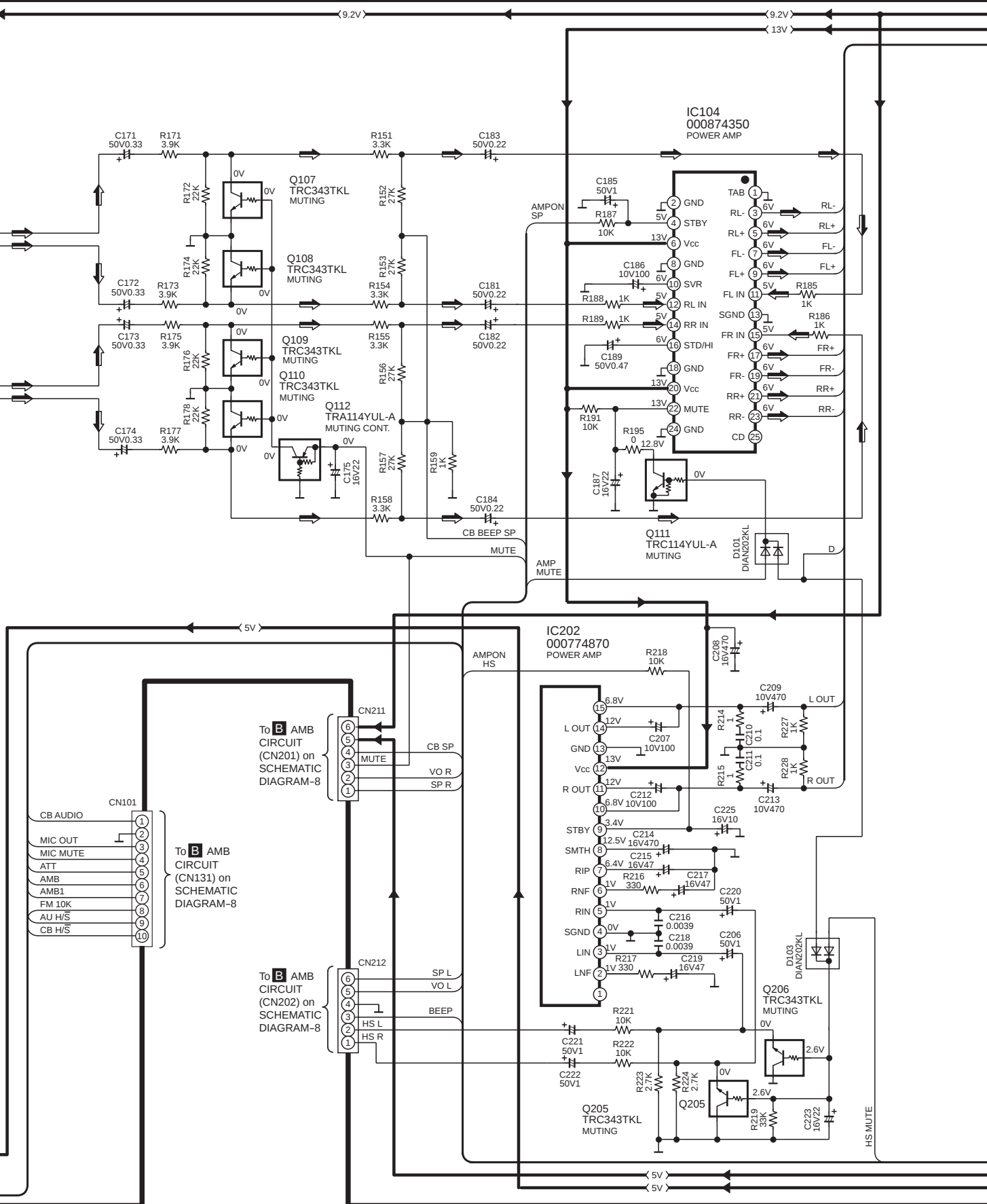
RM-G45(PA) MAIN SCHEMATIC DIAGRAM

 : POSITIVE VOLTAGE LINE
 : FM SIGNAL LINE
 : AM SIGNAL LINE
 : WB SIGNAL LINE
 : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-3

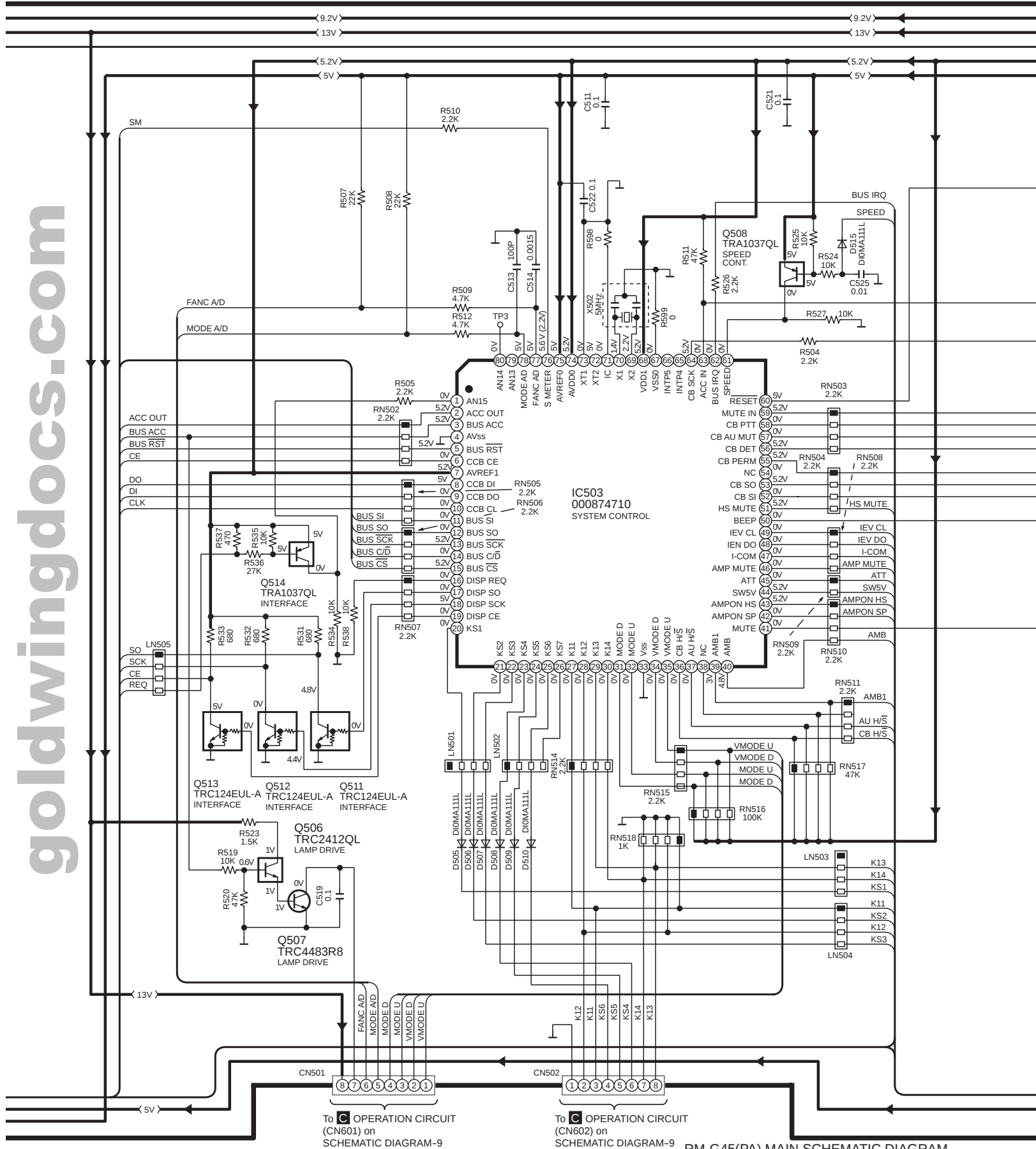
→ : POSITIVE VOLTAGE LINE ⇨ : MAIN SIGNAL LINE



RM-G45(PA) MAIN SCHEMATIC DIAGRAM

SCHEMATIC DIAGRAM-4

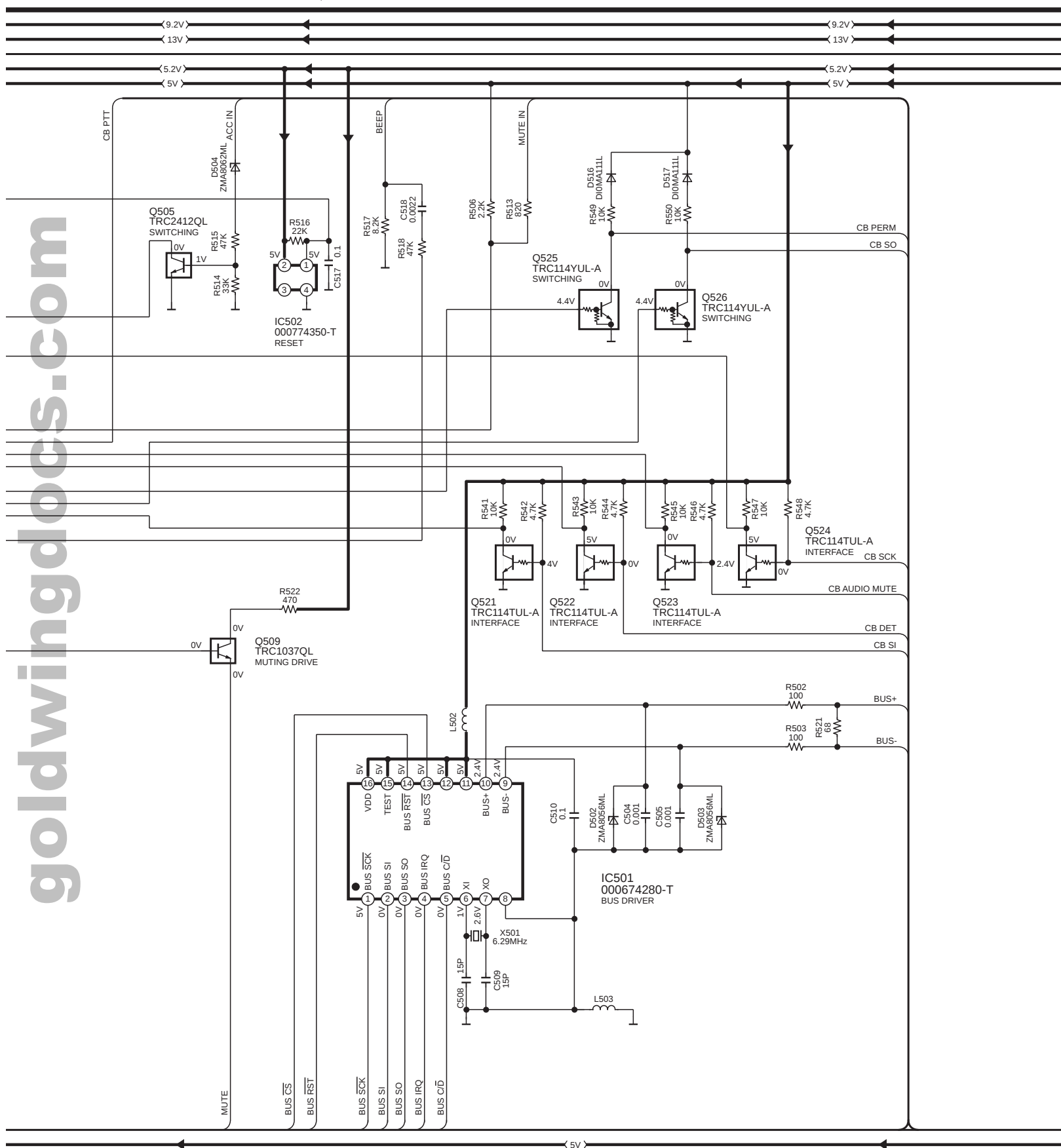
→ : POSITIVE VOLTAGE LINE



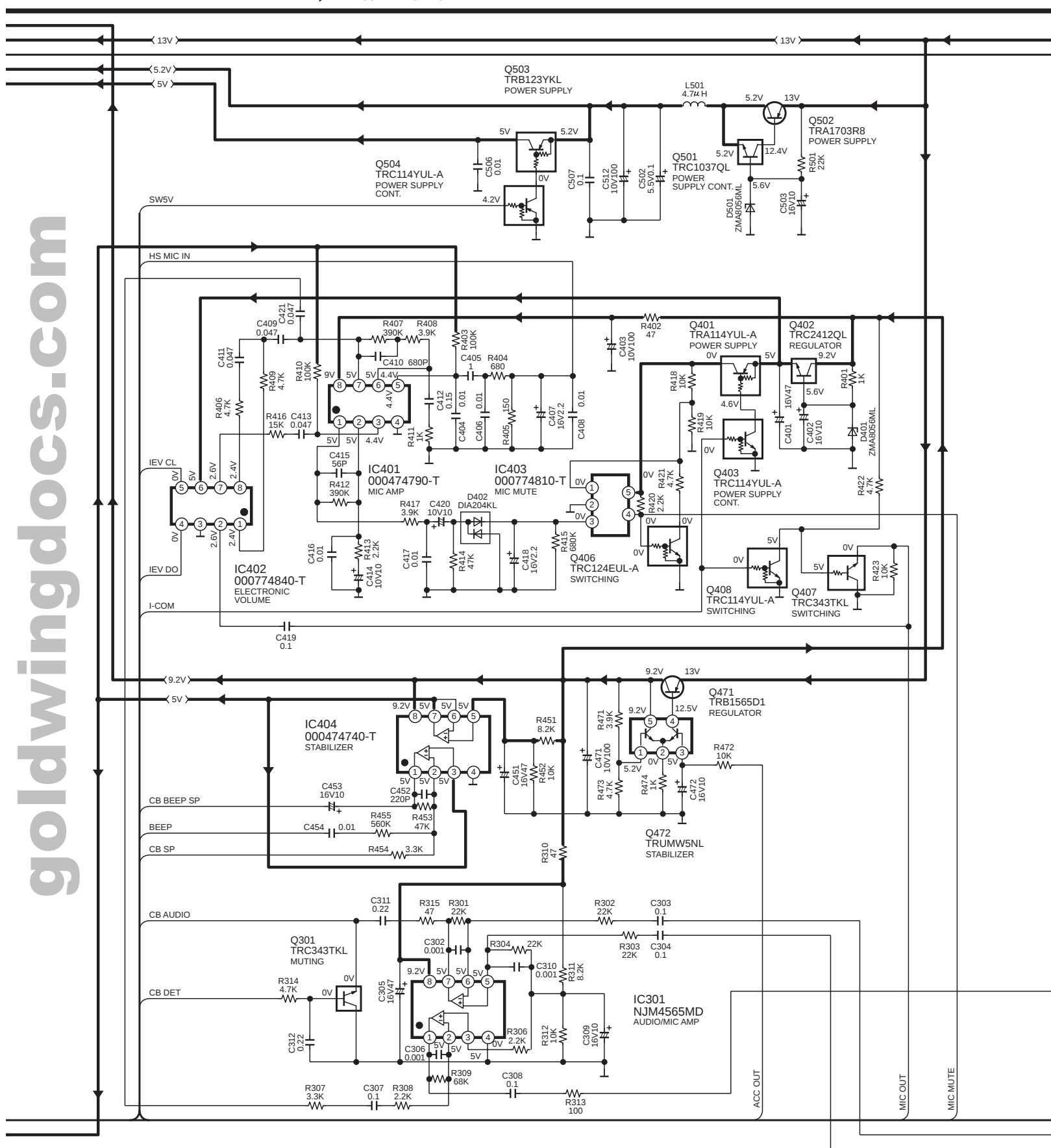
RM-G45(PA) MAIN SCHEMATIC DIAGRAM

SCHEMATIC DIAGRAM-5

→ : POSITIVE VOLTAGE LINE



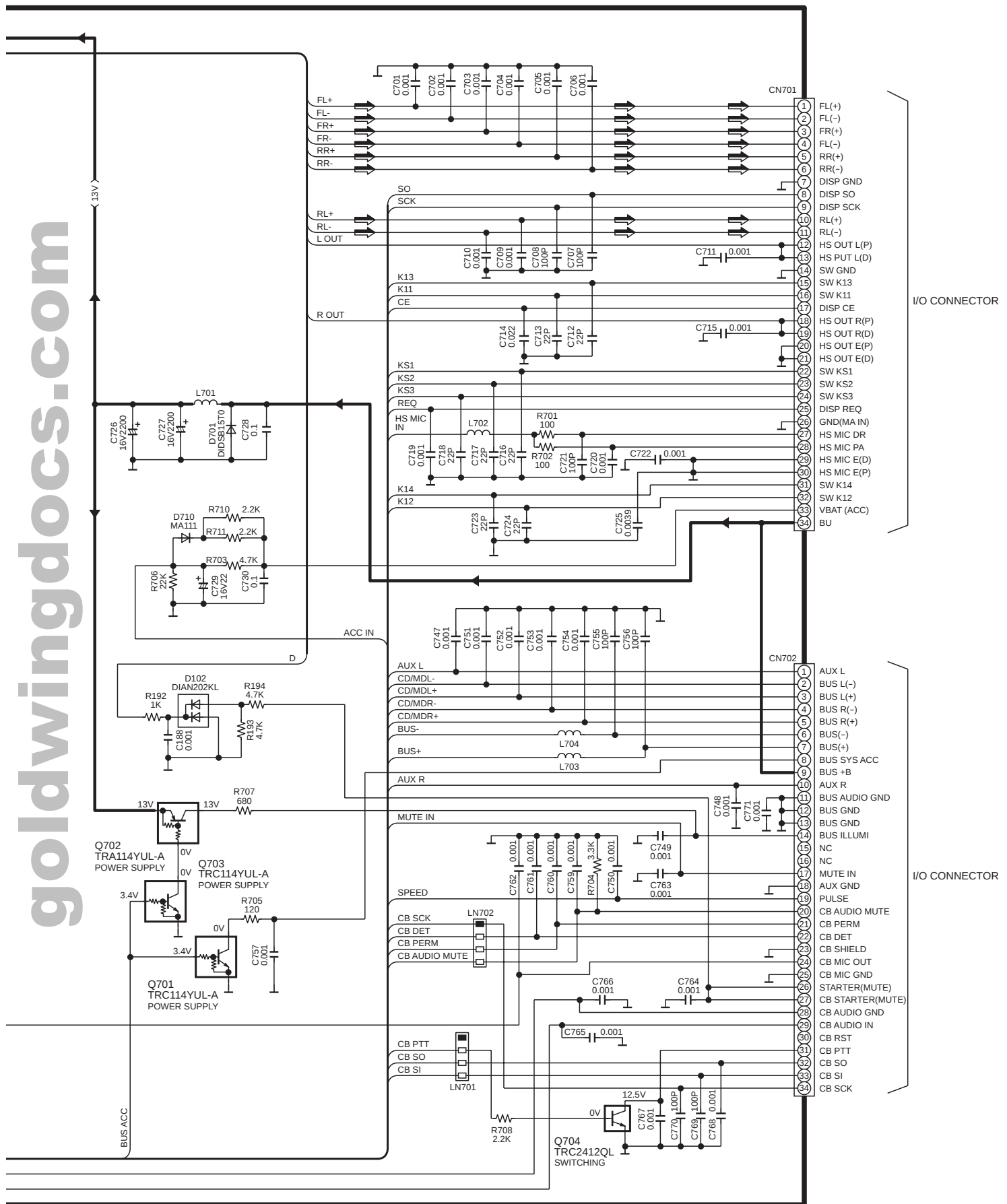
→ : POSITIVE VOLTAGE LINE



RM-G45(PA) MAIN SCHEMATIC DIAGRAM

SCHEMATIC DIAGRAM-7

→ : POSITIVE VOLTAGE LINE ⇒ : MAIN SIGNAL LINE



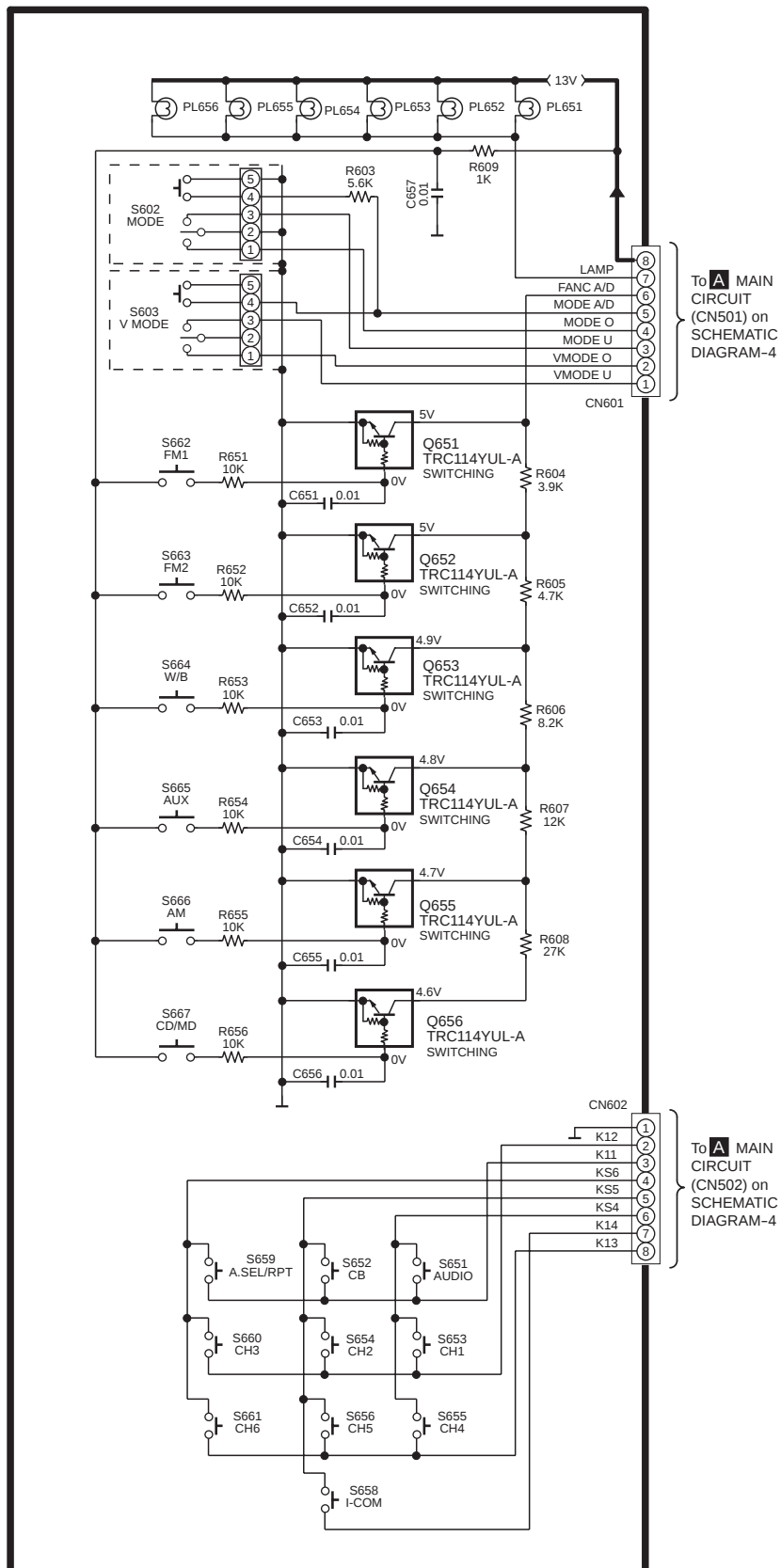
RM-G45(PA) MAIN SCHEMATIC DIAGRAM

B AMB CIRCUIT

→ : POSITIVE VOLTAGE LINE



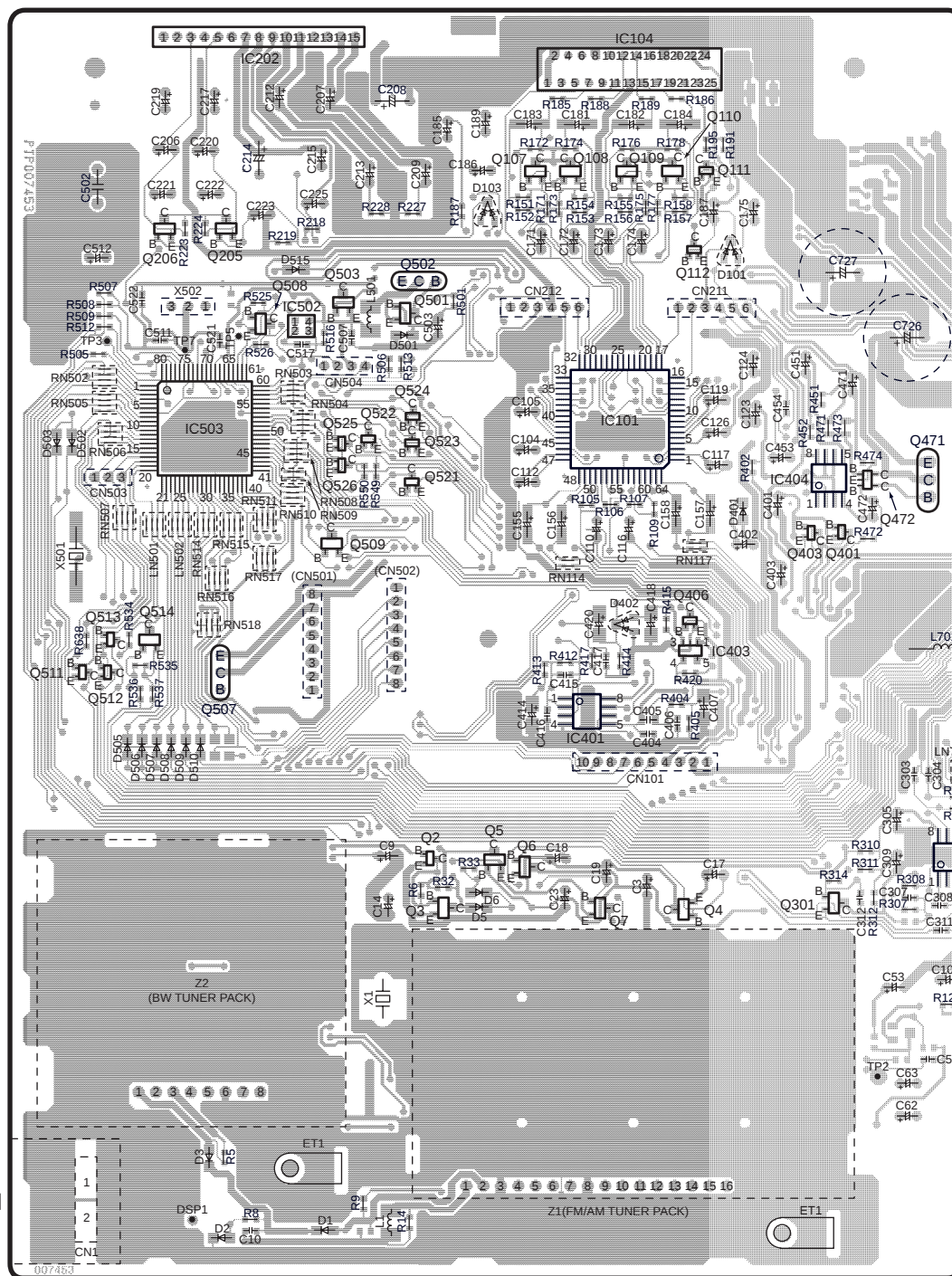
SCHEMATIC DIAGRAM-9

 : POSITIVE VOLTAGE LINE
C OPERATION CIRCUIT

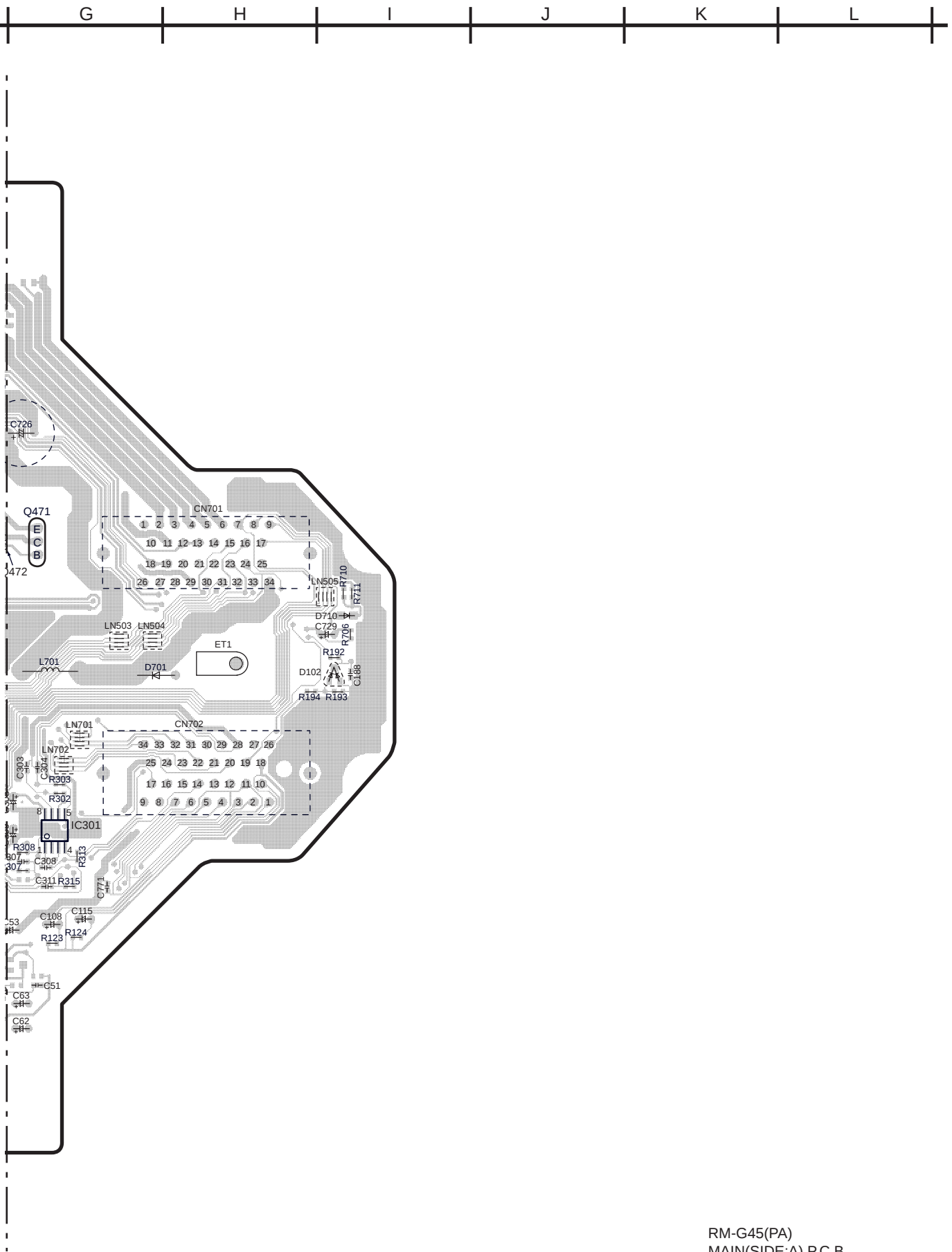
RM-G45(PA) OPERATION SCHEMATIC DIAGRAM

5 Printed Circuit Board Diagram

A MAIN P.C.B.(SIDE:A)



RM-G45(PA)
MAIN(SIDE:A) P.C.B.

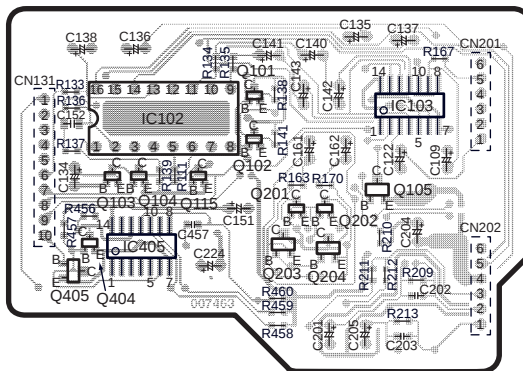


RM-G45(PA)
MAIN(SIDE:A) P.C.B.

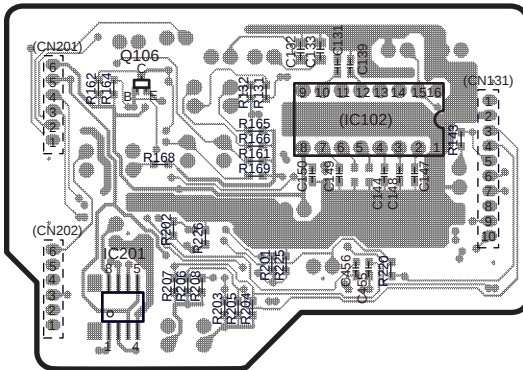
19



B



B



A B C D E F

1

2

3

4

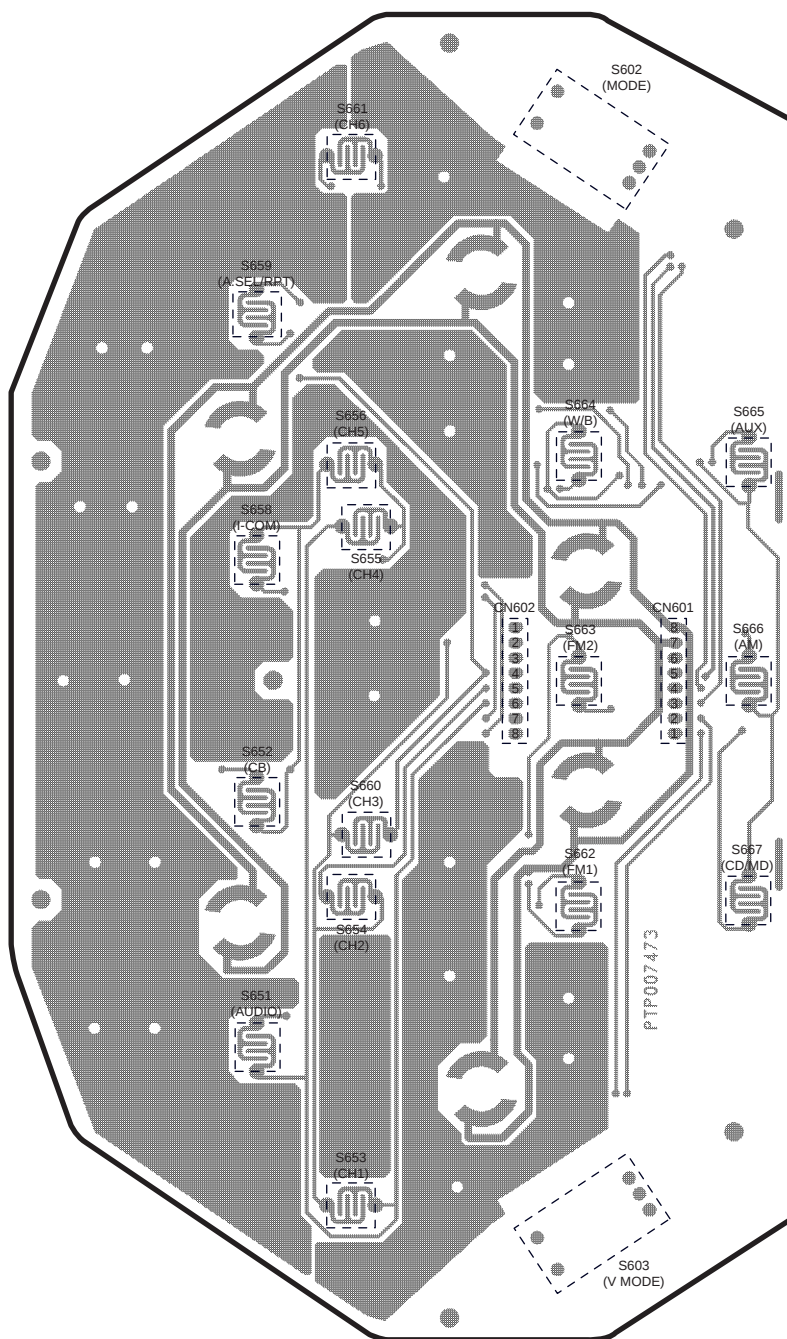
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6

7

8

C OPERATION P.C.B.(SIDE:A)

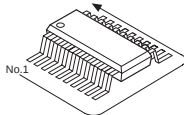
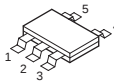
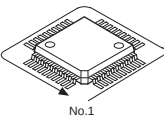
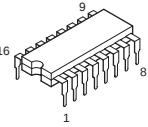
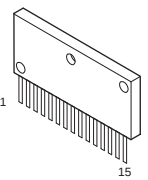
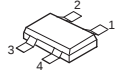
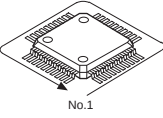
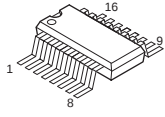
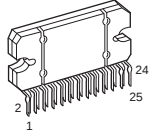
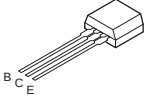
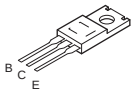
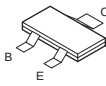
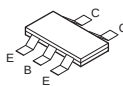
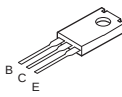
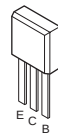
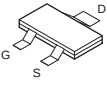
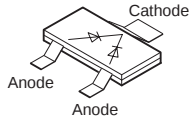
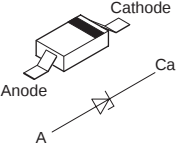
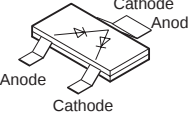
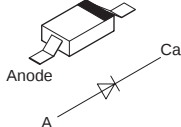
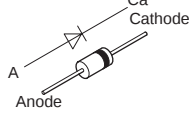


RM-G45(PA)
OPERATION(SIDE:A) P.C.B.

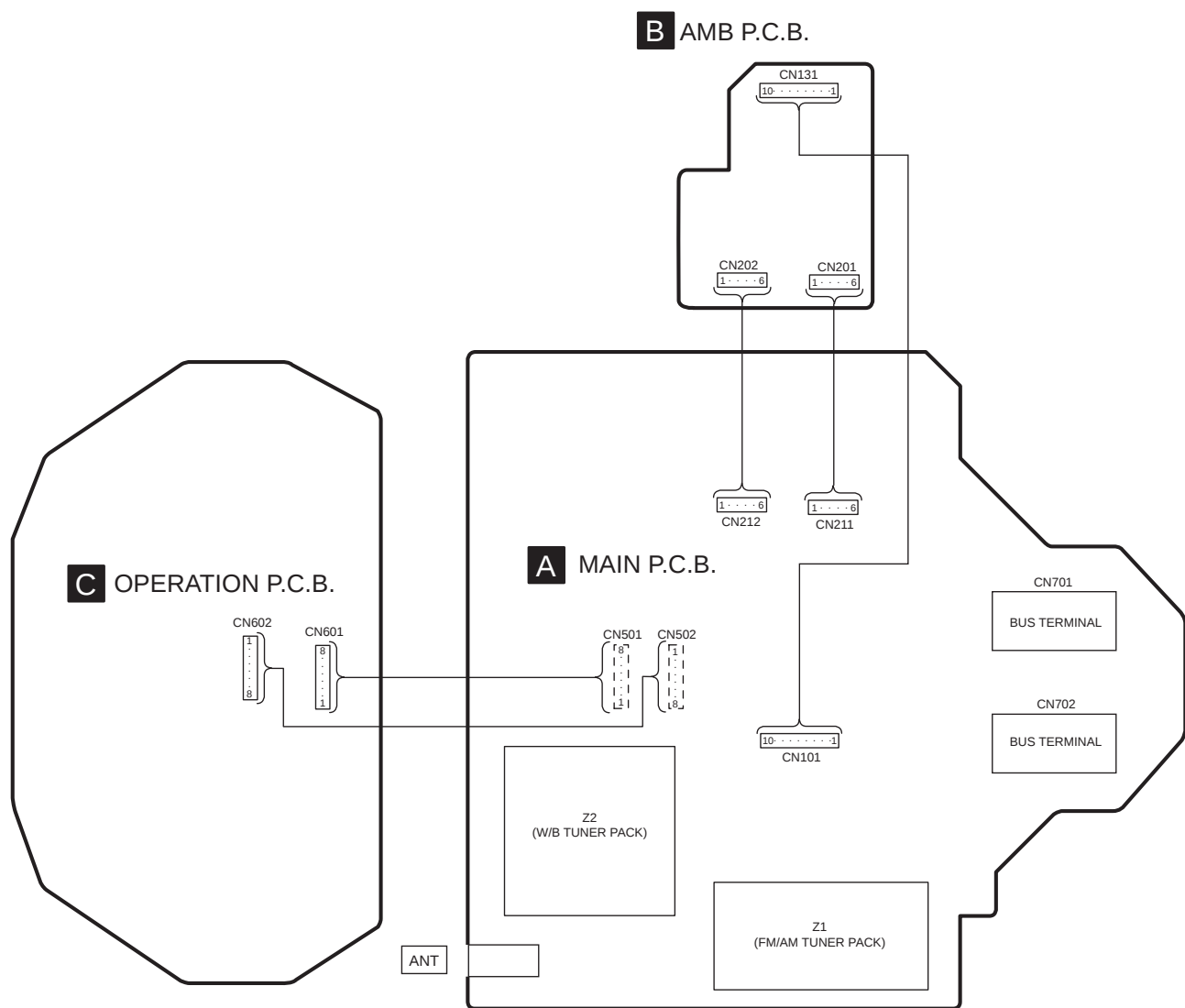
goldwingdocs.com



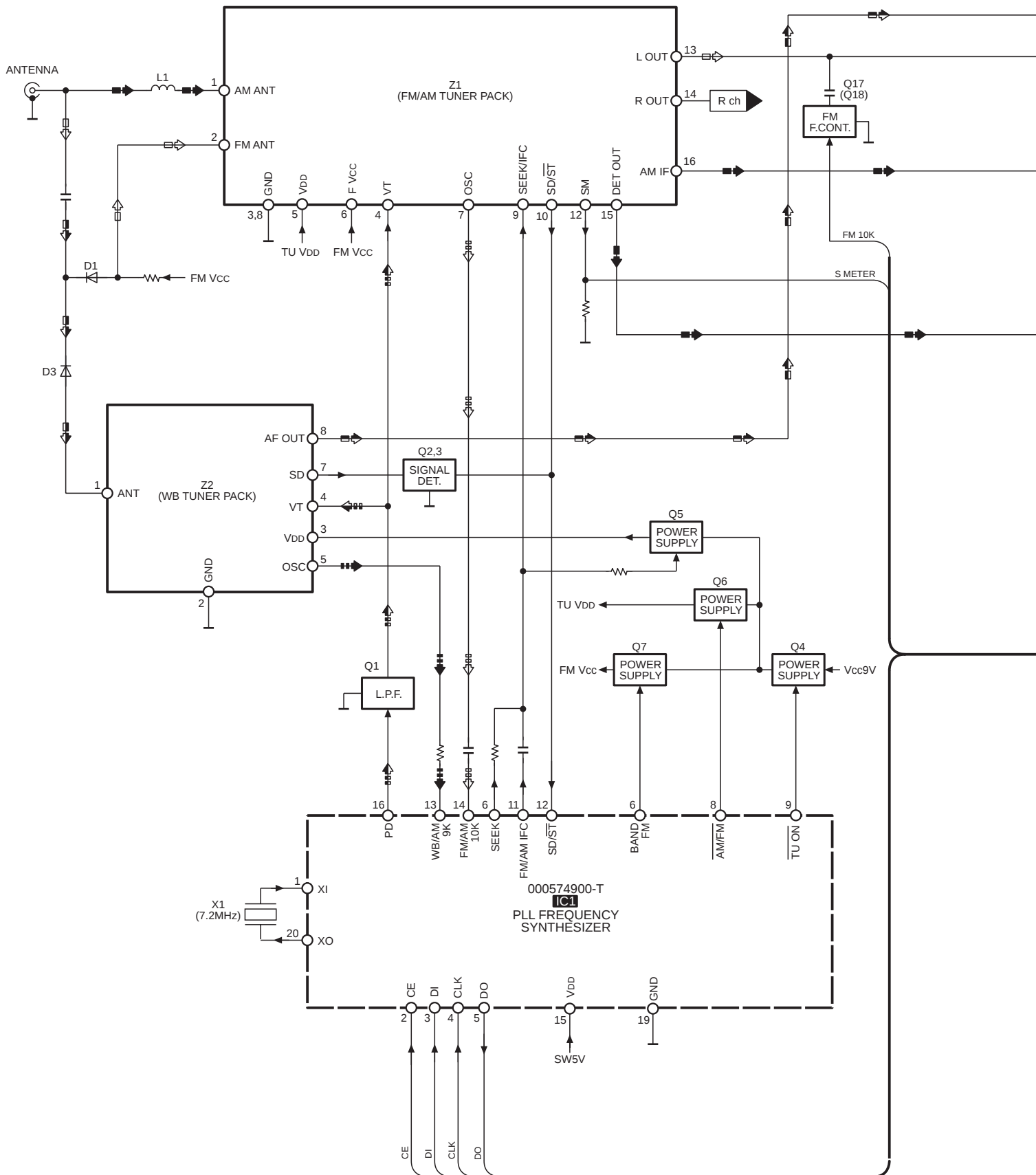
6 Type Illustration of ICs and Diodes

 <table><tr><td>000574900-T</td><td>20PIN</td></tr><tr><td>000774840-T</td><td>8PIN</td></tr><tr><td>000474780-T</td><td>14PIN</td></tr><tr><td>000474790-T</td><td>8PIN</td></tr><tr><td>000474740-T</td><td>8PIN</td></tr></table>	000574900-T	20PIN	000774840-T	8PIN	000474780-T	14PIN	000474790-T	8PIN	000474740-T	8PIN	 000774810-T	 <table><tr><td>000774960</td><td>64PIN</td></tr></table>	000774960	64PIN	 000774860	 000774870
000574900-T	20PIN															
000774840-T	8PIN															
000474780-T	14PIN															
000474790-T	8PIN															
000474740-T	8PIN															
000774960	64PIN															
000774350-T 	 <table><tr><td>000874710</td><td>80PIN</td></tr></table>	000874710	80PIN	 000684180-T 000674280-T	 000874350	TRB123YKL 	TRB1565D1 									
000874710	80PIN															
 TRC1037QL TRC144EUL-A TRC114TUL-A TRC2412QL TRC343TKL TRC114YUL-A	TRUMW5NL 	TRA1703R8 	TRC4483R8 	2SK1A829 												
DIAN202KL 	ZMA8056ML ZMA8062ML 	DIDA204KL 	DI0MA111L 	DIDSB15T0 												

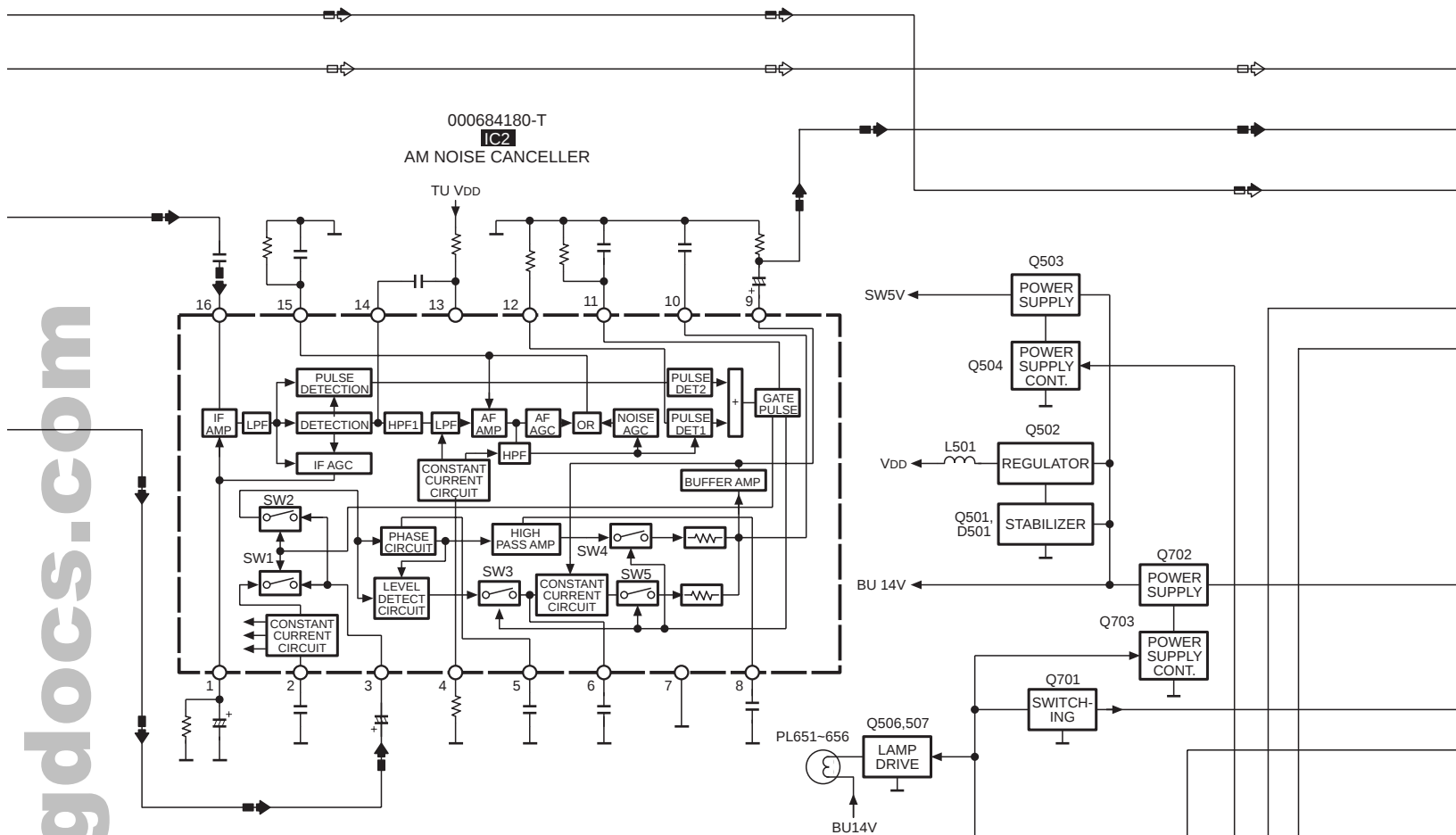
7 Wiring Connection Diagram



8 Block Diagram



RM-G45(PA)
BLOCK DIAGRAM

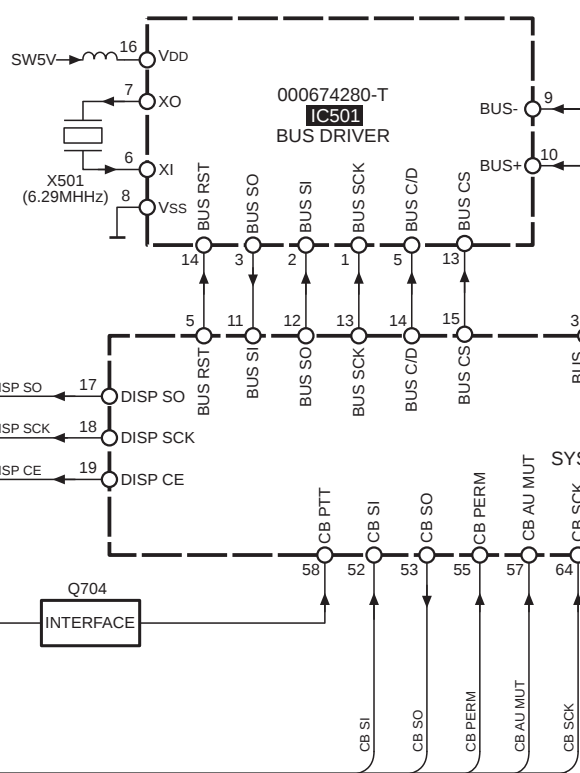


CN701 (BUS TERMINAL)

DISP SO	Q511	INTERFACE	DISP SO
DISP SCK	Q512	INTERFACE	DISP SCK
DISP CE	Q513	INTERFACE	DISP CE

CN702 (BUS TERMINAL)

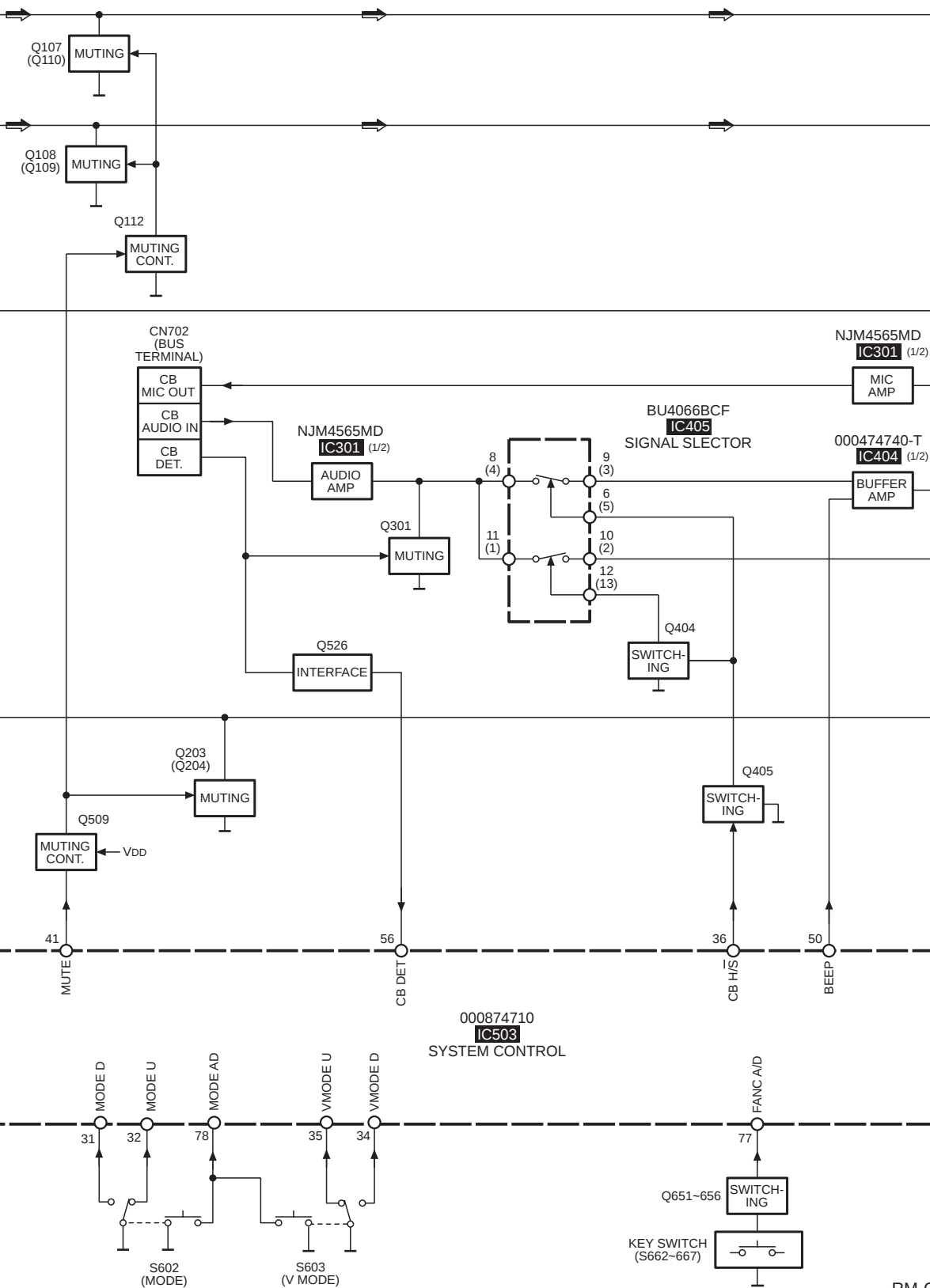
CB A.MUTE	Q523	INTERFACE	CB AU MUT
CB PERM	Q525	INTERFACE	CB PERM
CB SO	Q526	INTERFACE	CB SO
CB SI	Q521	INTERFACE	CB SI
CB SCK	Q513	INTERFACE	CB SCK
CB PTT	Q513	INTERFACE	CB SCK

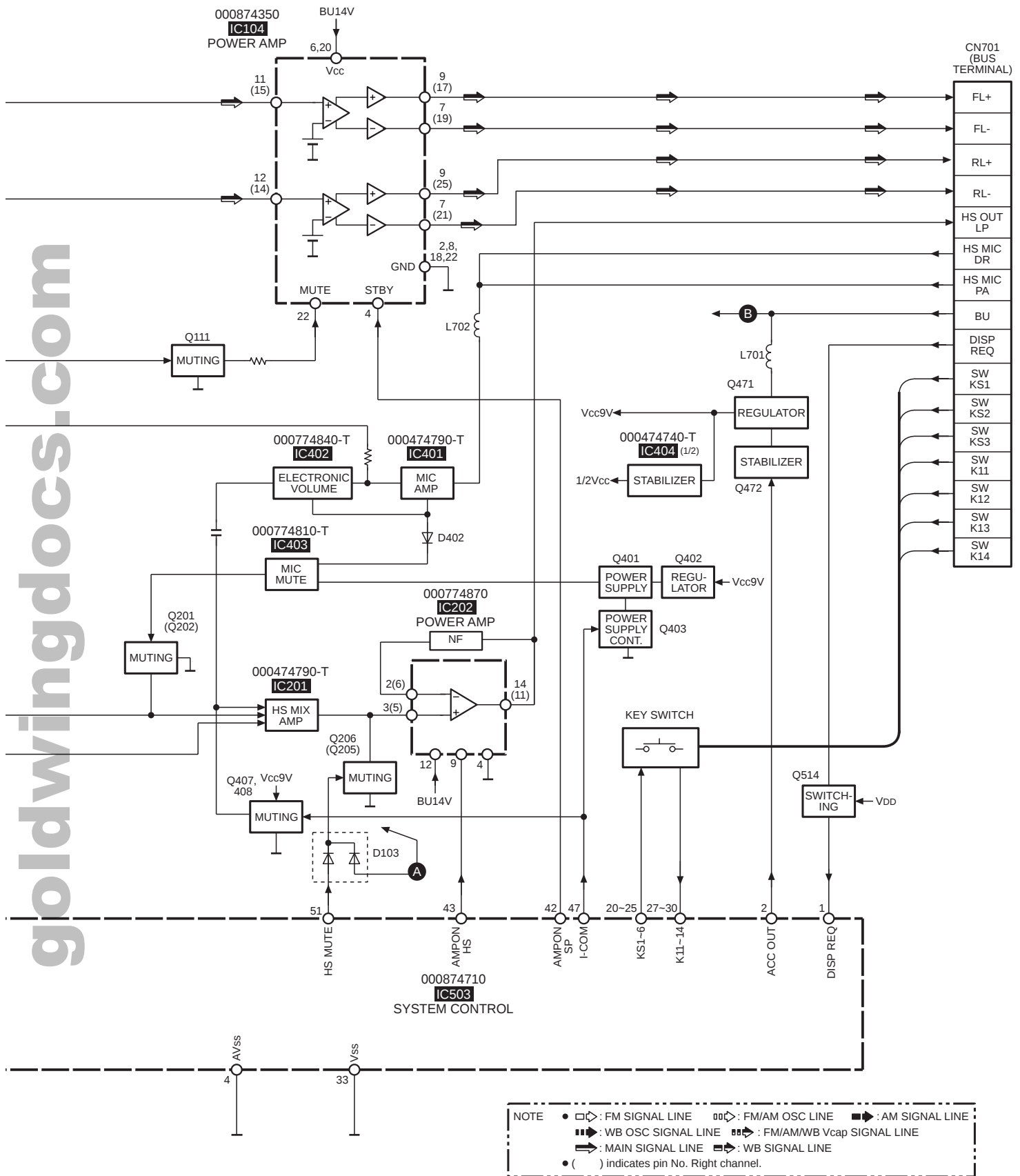


000874710 IC503 SYSTEM CONTROL

RM-G45(PA)
BLOCK DIAGRAM



RM-G45(PA)
BLOCK DIAGRAM

RM-G45(PA)
BLOCK DIAGRAM

9 Modification of RM-G45PA for European/Australian/Japanese Version

9.1. Modification Detail

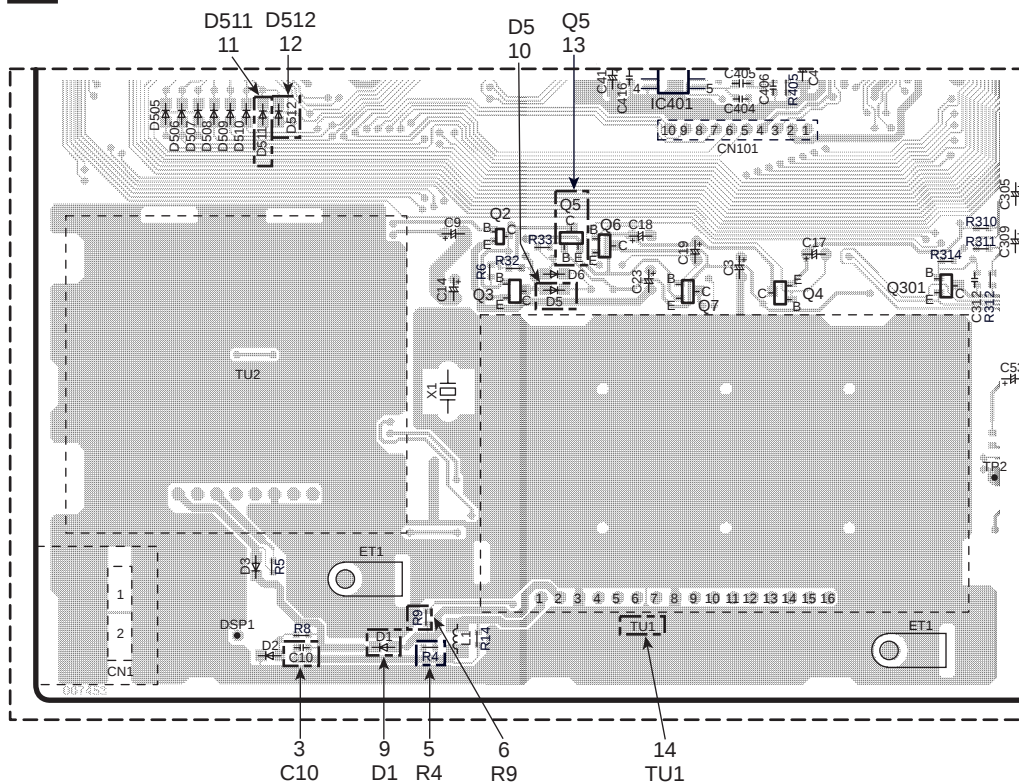
No	Ref No.	RM-G45PA Part No	RM-G45PA→ for Europe	RM-G45PA→ for Australia	RM-G45PA→ for Japan
Capacitor					
1	C7	CY183622J	Exchange ECUM1H123KBN	Not change	Exchange ECUM1H123KBN
2	C8	CY183622J	Exchange ECUM1H123KBN	Not change	Exchange ECUM1H123KBN
3	C10	CY103622J	Removal	Not change	Removal
4	C21	Not used	Additional ECUM1H331JCN	Additional ECUM1H331JCN	Additional ECUM1H331JCN
Resistor					
5	R4	Not used	Additional RRJ3GEY0R00	Not change	Additional RRJ3GEY0R00
6	R9	RK332JA0J	Removal	Not change	Removal
7	R21	RK101JA0J	Removal	Not change	Removal
8	R653	RK103JA0J	Not change	Not change	Removal
Diode					
9	D1	DI1SV271L	Removal	Not change	Removal
10	D5	DI0MA111L	Removal	Not change	Removal
11	D511	Not used	Additional MA111	Not change	Additional MA111
12	D512	Not used	Additional MA111	Additional MA111	Not change
Transistor					
13	Q5	TRB123YKL	Removal	Not change	Removal
Component Combinations					
14	TU1	000153571	Not change	Not change	Exchange CY123623J

Notes for Europe:

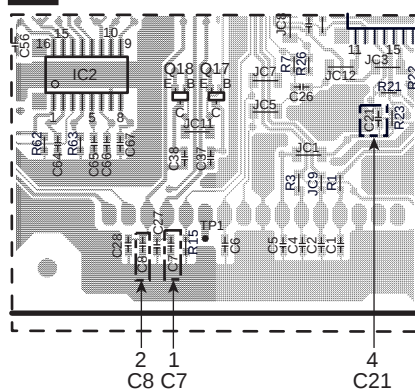
- You can received a L band program by WB button.
- The mentioned characters on the audio source select button are informal.
[FM]→[U]/[AM]→[M]/[WB]→[L]
- Please look at Service Manual of the RM-G45PA version about the remodeling work.

9.2. Modification Printed Circuit Board

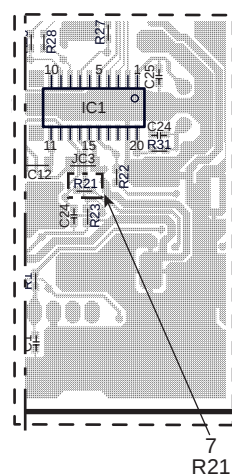
A MAIN P.C.B.(SIDE:A)



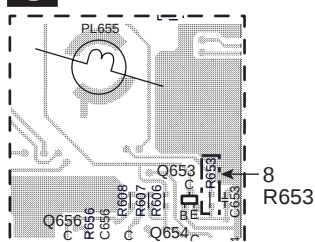
A MAIN P.C.B.(SIDE:B)



A MAIN P.C.B.(SIDE:B)



C OPERATION P.C.B.(SIDE:B)



10 Terminal Function of IC

10.1. IC503(000874710): System Control

Pin No.	Terminal Name	I/O	Function
1	AN15	I	Request signal input
2	ACC OUT	O	Power supply control signal output
3	BUS ACC	O	System power supply control signal output
4	AV _{SS}	-	GND
5	BUS RST	O	Reset signal output
6	CCB CE	O	Chip enable signal output
7	AVREF1	I	Not used, connected to V _{DD}
8	CCB DI	I	Data signal input
9	CCB DO	O	Data signal output
10	CCB CL	O	Clock signal output
11	BUS SI	I	Serial data input
12	BUS SO	O	Serial data output
13	BUS SCK	O	Serial clock signal output
14	BUS C/D	O	Command data signal output
15	BUS CS	O	Chip select signal output
16	DISP REQ	-	Not used, connected to GND via resistor
17	DISP SO	O	Serial data output for LCD
18	DISP SCK	O	Serial clock output for LCD
19	DISP CE	O	Chip enable output for LCD
20 25	KS1 KS6	O	Key source signal output
26	KS7	-	Not used
27 30	K11 K14	I	Key return signal input
31	MODE D	I	Mode switch signal input
32	MODE U	I	Mode switch signal input
33	V _{SS}	-	GND
34	V MODE D	I	V mode switch signal input
35	V MODE U	I	V mode switch signal input
36	CB H/S	O	CB sound select signal output
37	AU H/S	O	Audio sound select signal output
38	NC	-	Not used
39	AMB1	O	AMB control signal output
40	AMB	O	AMB ON/OFF signal output
41	MUTE	O	Audio mute signal output
42	AMPON SP	O	Power amp ON/OFF control signal output for speaker
43	AMPON HS	O	Power amp ON/OFF control signal output for headphone
44	SW5V	O	Power supply control signal output
45	ATT	O	Audio attenuator ON/OFF control signal output
46	AMP MUTE	O	Power amp mute control signal output for speaker
47	I-COM	O	Power supply control signal output for INTERCOM interrupt mute
48	IEV DO	O	Electric volume data output for INTERCOM microphone volume control and mute
49	IEV CL	O	Electric volume clock output for INTERCOM microphone volume control and mute
50	BEEP	O	Beep signal output
51	HS MUTE	O	Power amp mute control signal output for headset
52	CB SI	I	Serial data input from CB
53	CB SO	O	Serial data output for CB
54	NC	-	Not used, open
55	CB PERM	O	key data output request terminal
56	CB DET	I	CB connecting detect signal input

Pin No.	Terminal Name	I/O	Function
57	CB AU MUTE	I	CB audio mute signal input
58	CB PTT	O	CB PTT signal output
59	MUTE IN	I	Mute key ON/OFF detect signal input
60	RESET	I	System reset signal input
61	SPEED	I	Speed pulse signal input
62	BUS IRQ	I	Interrupt request signal input
63	ACC IN	I	ACC ON/OFF signal input
64	CB SCK	I	Serial clock signal input
65	INTP4	-	Not used, open
66	INTP5	-	Not used, open
67	V _{SS} 0	-	GND
68	V _{DD} 1	I	Power supply terminal
69	X2	O	Crystal oscillator connected terminal (F=5 MHz)
70	X1	I	
71	IC	-	Connected to V _{SS}
72	XT2	-	Not used, open
73	XT1	-	Connected to V _{SS}
74	AV _{DD} 0	I	Power supply terminal
75	AVREF0	I	Reference voltage input
76	S METER	I	S meter voltage input
77	FANCAD	I	Key detect signal input
78	MODEAD	I	Mode detect signal input
79	AN13	-	Not used, open
80	AN14	-	Not used, open

11 Replacement Parts List

Notes:

- Important safety notice:

Components identified by $\triangle$ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

- All parts are supplied by Systems AV Business Unit./Systems Business Group, AVC Company of Matsushita Electric Industrial Co.,Ltd.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMA0F16	TRANSISTOR FIXER	1	
2	VSC5054	HEAT SINK	1	
3	VMA0F17	IC FIXER	1	
4	VMA0F23	AMB PWB HOLDER	1	
6	VMA0F18	ENCODER BRACKET	2	
7	VGP5279	UPPER PANEL	1	
8	VGK2600	SHEET	1	
9	VGK2601	ORNAMENT (R)	1	
10	VXU1572	BUTTON ASS`Y, A.SEL/RPT	1	
11	VXU1573	BUTTON ASS`Y,I-COM	1	
12	VXU1571	BUTTON ASS`Y,CB	1	
13	VXU1570	BUTTON ASS`Y,AUDIO	1	
14	VXU1574	BUTTON ASS`Y,1-2	1	
15	VXU1575	BUTTON ASS`Y,3-4	1	
16	VXU1576	BUTTON ASS`Y,5-6	1	
17	VXU1579	BUTTON ASS`Y,WB	1	
18	VXU1578	BUTTON ASS`Y,FM2	1	
19	VXU1577	BUTTON ASS`Y,FM1	1	
20	VXU1582	BUTTON ASS`Y,AUX	1	
21	VXU1581	BUTTON ASS`Y,AM	1	
22	VXU1580	BUTTON ASS`Y,CD	1	
23	VGL0885	ILLUMINATOR (ENCODER) L	1	
24	VMG1297	PACKING (KNOB)	2	
25	VMG1294	PACKING (ENCODER)	2	
26	VGL0884	ILLUMINATOR (BUTTON)	1	
27	VMG1295	RUBBER CONTACT	1	(S651-656, 658-667)
28	VMK0507	RUBBER CONTACT HOLDER	1	
29	VGU8468	KNOB ASS`Y, VOLUME/MODE	2	
30	VMD4127	DRAIN PIPE	2	
31	VKM5389	INNER CASE	1	
32	VMA0F20	CONNECTOR HOLDER	1	
33	VKF3229	BOTTOM PLATE	1	
34	VMG1293	PACKING (UPPER CASE)	1	
35	VMG1298	PACKING (CONNECTOR)	2	
36	VMA0F19	GUIDE PLATE ASS`Y	1	
37	VMG1391	PACKING B	1	
38	XTN3+10JFD	SCREW	4	
39	XTN3+8J	SCREW	1	
40	XTN3+10J	SCREW	3	
41	YM3020001	SCREW FOR IC BLK SET	2	
42	VGL0908	ILLUMINATOR (ENCODER) R	1	
43	XT26A2BPC	SCREW	7	
44	XYN3+F8	SCREW	4	
45	XSB3+10	SCREW	3	
46	XSB3+6	SCREW	9	
47	XYN4+C8	SCREW	2	
48	VGN9433	NAME LABEL	1	
49	YM3020001	SCREW	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
50	VMG1359	PACKING A	2	
C1	CY223622J	0.022uF	1	
C2	CY104322J	0.1uF	1	
C3	CE1071428	100uF/10V	1	
C4	CY104322J	0.1uF	1	
C6	CY473422J	0.047uF	1	
C7,C8	CY183622J	0.047uF	2	
C9	CE1071428	100uF/10V	1	
C10	CY103622J	0.01uF	1	
C11	CS105460N-A	1uF/25V	1	
C12	CY102622J	0.001uF	1	
C13	CY473422J	0.047uF	1	
C14	CE4763288	47uF/16V	1	
C15	CY473422J	0.047uF	1	
C17	CE1071428	100uF/10V	1	
C18,19	CE1063728	10uF/16V	2	
C22	CY103622J	0.01uF	1	
C23	CE1063728	10uF/16V	1	
C24,25	CZ2706D2J	27pF	2	
C26	CZ3316D2J	330pF	1	
C37,38	CY183622J	0.047uF	2	
C51	CY102622J	0.001uF	1	
C53	CE1071428	100uF/10V	1	
C55	CY223622J	0.022uF	1	
C56	CY102622J	0.001uF	1	
C57	CY224022J	0.22uF	1	
C58	CY682623J	0.0068uF	1	
C59	CY333422J	0.033uF	1	
C60	CY683322J	0.068uF	1	
C61	CY103622J	0.01uF	1	
C62	CE2246728	0.22uF/50V	1	
C63	CE3356728	3.3uF/50V	1	
C64	CY333422J	0.033uF	1	
C65	CY683322J	0.068uF	1	
C66,67	CY333422J	0.033uF	2	
C101	CY333422J	0.033uF	1	
C102	CY152622J	0.0015uF	1	
C103	CZ3316D2J	330pF	1	
C104	CE1063728	10uF/16V	1	
C105	CE1063818	10UF/16V	1	
C106	CY224022J	0.22uF	1	
C107	CY473422J	0.047uF	1	
C108	CE1056728	1uF/50V	1	
C109	CE1063818	10UF/16V	1	
C110	CE1056728	1uF/50V	1	
C111	CY105102J	1uF	1	
C112	CE1056818	1UF/50V	1	
C113	CY333422J	0.033uF	1	
C114	CY105102J	1uF	1	
C115,16	CE1056728	1uF/50V	2	
C117	CE1056818	1UF/50V	1	
C118	CZ3316D2J	330pF	1	
C119	CE1063818	10UF/16V	1	
C120	CY224022J	0.22uF	1	
C121	CY473422J	0.047uF	1	
C122	CE1063818	10UF/16V	1	
C123,24	CE1071818	100UF/10V	2	
C125	CY333422J	0.033uF	1	
C126	CE1063728	10uF/16V	1	
C127-29	CY152622J	0.0015uF	3	
C131	CZ1016D2J	100pF	1	
C132,33	CQ331628J	330pF	2	
C134	CE4753728	4.7uF/16V	1	
C135	CE1063818	10UF/16V	1	
C136	CE4763818	47UF/16V	1	
C137	CE1063818	10UF/16V	1	
C138	CE4753728	4.7uF/16V	1	
C139	CZ1016D2J	100pF	1	
C140-43	CE1063818	10UF/16V	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C144	CY332622J	0.0033uF	1	
C147	CY152622J	0.0015uF	1	
C148	CY332622J	0.0033uF	1	
C149	CY152622J	0.0015uF	1	
C150	CY104426J	0.1uF	1	
C151	CE1071818	100UF/10V	1	
C152	CY105102J	1uF	1	
C155-58	CX474680N	0.47uF	4	
C161,62	CE1056728	1uF/50V	2	
C163	CY103622J	0.01uF	1	
C164	CY562622J	0.0056uF	1	
C165	CY103622J	0.01uF	1	
C166	CY562622J	0.0056uF	1	
C171-74	CE3346818	0.33UF/50V	4	
C175	CE2263288	22uF/16V	1	
C181-84	CX224680N	0.22UF	4	
C185	CE1056788	1UF/50V	1	
C186	CE1071788	100UF/10V	1	
C187	CE2263288	22uF/16V	1	
C188	CY102622J	0.001uF	1	
C189	CE4746788	0.47UF/50V	1	
C201	CE1056728	1uF/50V	1	
C202,03	CZ1016D2J	100pF	2	
C204	CE4763288	47uF/16V	1	
C205,06	CE1056728	1uF/50V	2	
C207	CE1071788	100UF/10V	1	
C208	CE4773757	470UF/16V	1	
C209	CE4771578	470uF/10V	1	
C210,11	CY104322J	0.1uF	2	
C212	CE1071788	100UF/10V	1	
C213	CE4771578	470uF/10V	1	
C214	CE4773757	470UF/16V	1	
C215	CE4763288	47uF/16V	1	
C216	CY392622J	0.0039uF	1	
C217	CE4763788	47UF/16V	1	
C218	CY392622J	0.0039uF	1	
C219	CE4763788	47UF/16V	1	
C220-22	CE1056728	1uF/50V	3	
C223	CE2263288	22uF/16V	1	
C224	CE4763288	47uF/16V	1	
C225	CE1063728	10uF/16V	1	
C302	CY102622J	0.001uF	1	
C303,04	CY104322J	0.1uF	2	
C305	CE4763288	47uF/16V	1	
C306	CY102622J	0.001uF	1	
C307,08	CY104322J	0.1uF	2	
C309	CE1063728	10uF/16V	1	
C310	CY102622J	0.001uF	1	
C311,12	CY224022J	0.22uF	2	
C401	CE4763288	47uF/16V	1	
C402	CE1063728	10uF/16V	1	
C403	CE1071428	100uF/10V	1	
C404	CY103622J	0.01uF	1	
C405	CY105102J	1uF	1	
C406	CY103622J	0.01uF	1	
C407	CS225360N-A	2.2uF/16V	1	
C408	CY103622J	0.01uF	1	
C409	CY473422J	0.047uF	1	
C410	CZ6816D2J	680pF	1	
C411	CY473422J	0.047uF	1	
C412	CY154122J	0.15uF	1	
C413	CY473422J	0.047uF	1	
C414	CS106160N-A	10UF/10V	1	
C415	CZ5606D2J	56pF	1	
C416,17	CY103622J	0.01uF	2	
C418	CS225360N-A	2.2uF/16V	1	
C419	CY104322J	0.1uF	1	
C420	CS106160N-A	10UF/10V	1	
C421	CY473422J	0.047uF	1	
C451	CE4763818	47UF/16V	1	
C452	CZ2216D2J	220pF	1	
C453	CE1063728	10uF/16V	1	
C454	CY103622J	0.01uF	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C455-57	CY224022J	0.22uF	3	
C471	CE1071818	100UF/10V	1	
C472	CE1063818	10UF/16V	1	
C502	CW104F007	0.1F/5.5V	1	
C503	CE1063728	10uF/16V	1	
C504,05	CY102622J	0.001uF	2	
C506	CY103622J	0.01uF	1	
C507	CY104426J	0.1uF	1	
C508,09	CZ1506D2J	15pF	2	
C510,11	CY104426J	0.1uF	2	
C512	CE1071428	100uF/10V	1	
C513	CZ1016D2J	100pF	1	
C514	CY152622J	0.0015uF	1	
C517	CY104322J	0.1uF	1	
C518	CY222622J	0.0022uF	1	
C519	CY104426J	0.1uF	1	
C521,22	CY104426J	0.1uF	2	
C525	CY103622J	0.01uF	1	
C651-57	CY103622J	0.01uF	7	
C701-06	CY102622J	0.001uF	6	
C707,08	CZ1016D2J	100pF	2	
C709-11	CY102622J	0.001uF	3	
C712,13	CZ2206D2J	22pF	2	
C714	CY223622J	0.022uF	1	
C715	CY102622J	0.001uF	1	
C716-18	CZ2206D2J	22pF	3	
C719,20	CY102622J	0.001uF	2	
C721	CZ1016D2J	100pF	1	
C722	CY102622J	0.001uF	1	
C723,24	CZ2206D2J	22pF	2	
C725	CY392622J	0.0039uF	1	
C726,27	CE2283807	2200uF/16V	2	
C728	CY104D15J	0.1uF	1	
C729	CE2263288	22uF/16V	1	
C730	CY104D15J	0.1uF	1	
C747-50	CY102622J	0.001uF	4	
C751-54	CQ102628J	0.001uF	4	
C755,56	CZ1016D2J	100pF	2	
C757	CY102622J	0.001uF	1	
C759-68	CY102622J	0.001uF	10	
C769,70	CZ1016D2J	100pF	2	
C771	CY102622J	0.001uF	1	
CN1	000393620	ANTENNA JACK	1	
CN101	KZ0351000	CONNECTOR	1	
CN131	KZ0361000	CONNECTOR	1	
CN201,02	KZ0360600	CONNECTOR	2	
CN211,12	KZ0350600	CONNECTOR	2	
CN501,02	KZ0360800	CONNECTOR	2	
CN601,02	KZ0350800	CONNECTOR	2	
CN701	KX0183400	CONNECTOR	1	
CN702	KX0183401	CONNECTOR	1	
D1	DI1SV271L	DIODE	1	
D2	DI0MA111L	DIODE	1	
D3	DI1SV271L	DIODE	1	
D5,D6	DI0MA111L	DIODE	2	
D101-03	DIAN202KL	DIODE	3	
D401	ZMA8056ML	DIODE	1	
D402	DIDA204KL	DIODE	1	
D501-03	ZMA8056ML	DIODE	3	
D504	ZMA8062ML	DIODE	1	
D505-10	DI0MA111L	DIODE	6	
D515-17	DI0MA111L	DIODE	3	
D701	DIDSB15T0	DIODE	1	
D710	DI0MA111L	DIODE	1	
DSP1	000182030	DIA SERGE PROTECTOR	1	
ET1	000293670-T	EARTH TERMINAL	1	
IC1	000574900-T	IC	1	
IC2	000684180-T	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC101	000774960	IC	1	
IC102	000774860	IC	1	
IC103	000474780-T	IC	1	
IC104	000874350	IC	1	
IC201	000474790-T	IC	1	
IC202	000774870	IC	1	
IC301	000474740-T	IC	1	
IC401	000474790-T	IC	1	
IC402	000774840-T	IC	1	
IC403	000774810-T	IC	1	
IC404	000474740-T	IC	1	
IC405	000474780-T	IC	1	
IC501	000674280-T	IC	1	
IC502	000774350-T	IC	1	
IC503	000874710	IC	1	
JC1	RK000J42J	1/8W 0	1	
JC3-C5	RK000J42J	1/8W 0	3	
JC7,C8	RK000J42J	1/8W 0	2	
JC9,10	RK000JA0J	1/10W 0	2	
JC11,12	RK000J42J	1/8W 0	2	
L1	LC470K10J	COIL	1	
L501	LC4R7K10J	COIL	1	
L502,03	000293630-T	COIL	2	
L701	000125581	COIL	1	
L702-04	000293630-T	COIL	3	
LN501-05	000393640-T	CHIP IMPEDA	5	
LN701,02	000393640-T	CHIP IMPEDA	2	
PL651-56	000282820	PILOT LAMP	6	
Q1	2SK1829	TRANSISTOR	1	
Q2	TRC114YUL-A	TRANSISTOR	1	
Q3	TRC1037QL	TRANSISTOR	1	
Q4-Q7	TRB123YKL	TRANSISTOR	4	
Q17,18	TRC144EUL-A	TRANSISTOR	2	
Q101,02	TRC114TUL-A	TRANSISTOR	2	
Q103	TRA114YUL-A	TRANSISTOR	1	
Q104	TRC144EUL-A	TRANSISTOR	1	
Q105	TRC1037QL	TRANSISTOR	1	
Q106	TRC114YUL-A	TRANSISTOR	1	
Q107-10	TRC343TKL	TRANSISTOR	4	
Q111	TRC114YUL-A	TRANSISTOR	1	
Q112	TRA114YUL-A	TRANSISTOR	1	
Q115	TRC144EUL-A	TRANSISTOR	1	
Q201,02	TRC114TUL-A	TRANSISTOR	2	
Q203-06	TRC343TKL	TRANSISTOR	4	
Q301	TRC343TKL	TRANSISTOR	1	
Q401	TRA114YUL-A	TRANSISTOR	1	
Q402	TRC2412QL	TRANSISTOR	1	
Q403,04	TRC114YUL-A	TRANSISTOR	2	
Q405	TRC1037QL	TRANSISTOR	1	
Q406	TRC124EUL-A	TRANSISTOR	1	
Q407	TRC343TKL	TRANSISTOR	1	
Q408	TRC114YUL-A	TRANSISTOR	1	
Q471	TRB1565D1	TRANSISTOR	1	
Q472	TRUMW5NL	TRANSISTOR	1	
Q501	TRC1037QL	TRANSISTOR	1	
Q502	TRA1703R8	TRANSISTOR	1	
Q503	TRB123YKL	TRANSISTOR	1	
Q504	TRC114YUL-A	TRANSISTOR	1	
Q505,06	TRC2412QL	TRANSISTOR	2	
Q507	TRC4483R8	TRANSISTOR	1	
Q508	TRA1037QL	TRANSISTOR	1	
Q509	TRC1037QL	TRANSISTOR	1	
Q511-13	TRC124EUL-A	TRANSISTOR	3	
Q514	TRA1037QL	TRANSISTOR	1	
Q521-24	TRC114TUL-A	TRANSISTOR	4	
Q525,26	TRC114YUL-A	TRANSISTOR	2	
Q651-56	TRC114YUL-A	TRANSISTOR	6	
Q701	TRC114YUL-A	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q702	TRA114YUL-A	TRANSISTOR	1	
Q703	TRC114YUL-A	TRANSISTOR	1	
Q704	TRC2412QL	TRANSISTOR	1	
R1	RK101JA0J	1/10W 100	1	
R2	RK100JA1J	1/10W 10	1	
R3	RK470JA1J	1/10W 47	1	
R5	RK332JA0J	1/10W 3.3K	1	
R6	RK103JA0J	1/10W 10K	1	
R7	RK473JA0J	1/10W 47K	1	
R8,R9	RK332JA0J	1/10W 3.3K	2	
R11	RK101JA0J	1/10W 100	1	
R12	RK222JA0J	1/10W 2.2K	1	
R13	RK122JA0J	1/10W 1.2K	1	
R14	RK103JA0J	1/10W 10K	1	
R21	RK101JA0J	1/10W 100	1	
R22	RK102JA0J	1/10W 1K	1	
R23	RK101JA0J	1/10W 100	1	
R24	RK224JA0J	1/10W 220K	1	
R25	RK2R2JA0J	1/10W 2.2	1	
R26,27	RK102JA0J	1/10W 1K	2	
R28,29	RK471JA0J	1/10W 470	2	
R30	RK222JA0J	1/10W 2.2K	1	
R31	RK000JA0J	1/10W 0	1	
R32,33	RK104JA0J	1/10W 100K	2	
R51	RK470JA1J	1/10W 47	1	
R56	RK272JA0J	1/10W 2.7K	1	
R57	RK153JA0J	1/10W 15K	1	
R58	RK473JA0J	1/10W 47K	1	
R59	RK153JA0J	1/10W 15K	1	
R60	RK124JA0J	1/10W 120K	1	
R62	RK104JA0J	1/10W 100K	1	
R63	RK123JA0J	1/10W 12K	1	
R101	RK472JA0J	1/10W 4.7K	1	
R102	RK823JA0J	1/10W 82K	1	
R104	RK823JA0J	1/10W 82K	1	
R105	RK153JA0J	1/10W 15K	1	
R106,07	RK102JA0J	1/10W 1K	2	
R109	RK153JA0J	1/10W 15K	1	
R110	RK823JA0J	1/10W 82K	1	
R111	RK103JA0J	1/10W 10K	1	
R112	RK823JA0J	1/10W 82K	1	
R113-15	RK472JA0J	1/10W 4.7K	3	
R116	RK682JA0J	1/10W 6.8K	1	
R119	RK682JA0J	1/10W 6.8K	1	
R121-24	RK103JA0J	1/10W 10K	4	
R131,32	RK221JA0J	1/10W 220	2	
R133	RK103JA0J	1/10W 10K	1	
R134,35	RK102JA0J	1/10W 1K	2	
R136	RK224JA0J	1/10W 220K	1	
R137	RK822JA0J	1/10W 8.2K	1	
R138	RK223JA0J	1/10W 22K	1	
R139	RK105JA0J	1/10W 1M	1	
R141	RK223JA0J	1/10W 22K	1	
R143	RK472JA0J	1/10W 4.7K	1	
R151	RK332JA0J	1/10W 3.3K	1	
R152,53	RK273JA0J	1/10W 27K	2	
R154,55	RK332JA0J	1/10W 3.3K	2	
R156,57	RK273JA0J	1/10W 27K	2	
R158	RK332JA0J	1/10W 3.3K	1	
R159	RK102JA0J	1/10W 1K	1	
R161	RK104JA0J	1/10W 100K	1	
R162	RK222JA0J	1/10W 2.2K	1	
R163	RK472JA0J	1/10W 4.7K	1	
R164	RK222JA0J	1/10W 2.2K	1	
R165-69	RK104JA0J	1/10W 100K	5	
R170	RK472JA0J	1/10W 4.7K	1	
R171	RK392JA0J	1/10W 3.9K	1	
R172	RK223JA0J	1/10W 22K	1	
R173	RK392JA0J	1/10W 3.9K	1	
R174	RK223JA0J	1/10W 22K	1	
R175	RK392JA0J	1/10W 3.9K	1	
R176	RK223JA0J	1/10W 22K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R177	RK392JA0J	1/10W 3.9K	1	
R178	RK223JA0J	1/10W 22K	1	
R185,86	RK102JA0J	1/10W 1K	2	
R187	RK103JA0J	1/10W 10K	1	
R188,89	RK102JA0J	1/10W 1K	2	
R191	RK103JA0J	1/10W 10K	1	
R192	RK102JA0J	1/10W 1K	1	
R193,94	RK472JA0J	1/10W 4.7K	2	
R195	RK000JA0J	1/10W 0	1	
R201,02	RK221JA0J	1/10W 220	2	
R203	RK103JA0J	1/10W 10K	1	
R204	RK333JA0J	1/10W 33K	1	
R205,06	RK472JA0J	1/10W 4.7K	2	
R207	RK333JA0J	1/10W 33K	1	
R208	RK103JA0J	1/10W 10K	1	
R209	RK223JA0J	1/10W 22K	1	
R210	RK470JA0J	1/10W 47	1	
R211,12	RK475JA0J	1/10W 4.7M	2	
R213	RK223JA0J	1/10W 22K	1	
R214,15	RK1R0JA0J	1/10W 1	2	
R216,17	RK331JA0J	1/10W 330	2	
R218	RK103JA0J	1/10W 10K	1	
R219	RK333JA0J	1/10W 33K	1	
R220	RK472JA0J	1/10W 4.7K	1	
R221,22	RK103JA0J	1/10W 10K	2	
R223,24	RK272JA0J	1/10W 2.7K	2	
R225-28	RK102JA0J	1/10W 1K	4	
R301-04	RK223JA0J	1/10W 22K	4	
R306	RK222JA0J	1/10W 2.2K	1	
R307	RK332JA0J	1/10W 3.3K	1	
R308	RK222JA0J	1/10W 2.2K	1	
R309	RK683JA0J	1/10W 68K	1	
R310	RK470JA0J	1/10W 47	1	
R311	RK822JA0J	1/10W 8.2K	1	
R312	RK103JA0J	1/10W 10K	1	
R313	RK101JA0J	1/10W 100	1	
R314	RK472JA0J	1/10W 4.7K	1	
R315	RK470JA0J	1/10W 47	1	
R401	RK102JA0J	1/10W 1K	1	
R402	RK470JA0J	1/10W 47	1	
R403	RK104JA0J	1/10W 100K	1	
R404	RK681JA0J	1/10W 680	1	
R405	RK151JA0J	1/10W 150	1	
R406	RK472JA0J	1/10W 4.7K	1	
R407	RK394JA0J	1/10W 390K	1	
R408	RK392JA0J	1/10W 3.9K	1	
R409	RK472JA0J	1/10W 4.7K	1	
R410	RK104JA0J	1/10W 100K	1	
R411	RK102JA0J	1/10W 1K	1	
R412	RK394JA0J	1/10W 390K	1	
R413	RK222JA0J	1/10W 2.2K	1	
R414	RK473JA0J	1/10W 47K	1	
R415	RK684JA0J	1/10W 680K	1	
R416	RK153JA0J	1/10W 15K	1	
R417	RK392JA0J	1/10W 3.9K	1	
R418,19	RK103JA0J	1/10W 10K	2	
R420	RK222JA0J	1/10W 2.2K	1	
R421,22	RK472JA0J	1/10W 4.7K	2	
R423	RK103JA0J	1/10W 10K	1	
R451	RK822JA0J	1/10W 8.2K	1	
R452	RK103JA0J	1/10W 10K	1	
R453	RK473JA0J	1/10W 47K	1	
R454	RK332JA0J	1/10W 3.3K	1	
R455	RK564JA0J	1/10W 560K	1	
R456	RK103JA0J	1/10W 10K	1	
R457	RK222JA0J	1/10W 2.2K	1	
R458-60	RK473JA0J	1/10W 47K	3	
R471	RK392DA1J	1/10W 3.9K	1	
R472	RK103JA0J	1/10W 10K	1	
R473	RK472DA1J	1/10W 4.7K	1	
R474	RK102JA0J	1/10W 1K	1	
R501	RK223JA0J	1/10W 22K	1	
R502,03	RK101J42J	1/8W 100	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R504-06	RK222JA0J	1/10W 2.2K	3	
R507,08	RK223JA0J	1/10W 22K	2	
R509	RK472JA0J	1/10W 4.7K	1	
R510	RK222JA0J	1/10W 2.2K	1	
R511	RK473JA0J	1/10W 47K	1	
R512	RK472JA0J	1/10W 4.7K	1	
R513	RK821JA0J	1/10W 820	1	
R514	RK333JA0J	1/10W 33K	1	
R515	RK473JA0J	1/10W 47K	1	
R516	RK223JA0J	1/10W 22K	1	
R517	RK822JA0J	1/10W 8.2K	1	
R518	RK473JA0J	1/10W 47K	1	
R519	RK103JA0J	1/10W 10K	1	
R520	RK473JA0J	1/10W 47K	1	
R521	RK680J42J	1/8W 68	1	
R522	RK471JA0J	1/10W 470	1	
R523	RK152J42J	1/8W 1.5K	1	
R524,25	RK103JA0J	1/10W 10K	2	
R526	RK222JA0J	1/10W 2.2K	1	
R527	RK103JA0J	1/10W 10K	1	
R531-33	RK681JA0J	1/10W 680	3	
R534,35	RK103JA0J	1/10W 10K	2	
R536	RK273JA0J	1/10W 27K	1	
R537	RK471JA0J	1/10W 470	1	
R538	RK103JA0J	1/10W 10K	1	
R541	RK103JA0J	1/10W 10K	1	
R542	RK472JA0J	1/10W 4.7K	1	
R543	RK103JA0J	1/10W 10K	1	
R544	RK472JA0J	1/10W 4.7K	1	
R545	RK103JA0J	1/10W 10K	1	
R546	RK472JA0J	1/10W 4.7K	1	
R547	RK103JA0J	1/10W 10K	1	
R548	RK472JA0J	1/10W 4.7K	1	
R549,50	RK103JA0J	1/10W 10K	2	
R598,99	RK000JA0J	1/10W 0	2	
R603	RK562JA0J	1/10W 5.6K	1	
R604	RK392JA0J	1/10W 3.9K	1	
R605	RK472JA0J	1/10W 4.7K	1	
R606	RK822JA0J	1/10W 8.2K	1	
R607	RK123JA0J	1/10W 12K	1	
R608	RK273JA0J	1/10W 27K	1	
R609	RK102JA0J	1/10W 1K	1	
R651-56	RK103JA0J	1/10W 10K	6	
R701,02	RK101JA0J	1/10W 100	2	
R703	RK472J42J	1/8W 4.7K	1	
R704	RK332JA0J	1/10W 3.3K	1	
R705	RK121J42J	1/8W 120	1	
R706	RK223JA0J	1/10W 22K	1	
R707	RK681J42J	1/8W 680	1	
R708	RK222JA0J	1/10W 2.2K	1	
R710,11	RK222JA0J	1/10W 2.2K	2	
RN114	RR682J00J	1/16W 6.8K	1	
RN117	RR682J00J	1/16W 6.8K	1	
RN502-08	RR222J01J	1/16W 2.2K	7	
RN509	RR222J00J	1/16W 2.2K	1	
RN510,11	RR222J01J	1/16W 2.2K	2	
RN514,15	RR222J01J	1/16W 2.2K	2	
RN516	RR104J01J	1/16W 100K	1	
RN517	RR473J01J	1/16W 47K	1	
RN518	RR102J01J	1/16W 1K	1	
S602,03	000392790	ROTARY ENCODER	2	
TU1	000153571	TUNER PACK (AM/FM)	1	
TU2	000153470	TUNER PACK (WEATHER BAND)	1	
X1	000171350-T	OSCILLATOR	1	
X501	000171440-T	OSCILLATOR	1	
X502	000067790-T	OSCILLATOR	1	

12 Cabinet Parts Location

