

- [COVER](#)
- [1 Before Repairs](#)
- [2 Protection Circuitry](#)
- [3 Accessories](#)
- [4 Caution for AC Mains](#)
- [Lead](#)
- [5 Location of Controls](#)
- [6 Operation Checks and Component Replacement Procedures](#)
- [6.1 Checking for the AC IN P.C.B.](#)
- [6.2 Checking for the operation P.C.B.](#)
- [6.3 Checking for the main P.C.B.](#)
- [6.4 Replacement for the regulator transistor](#)
- [6.5 Replacement for the power IC](#)
- [7 To Supply Power Source](#)
- [8 Self-Diagnostic Function](#)
- [8.1 To display the malfunction code](#)
- [8.2 To return to the normal display](#)
- [8.3 Display contents](#)
- [8.3.1 U70 CD, U70 DECK \(displayed automatically\)](#)
- [8.3.2 F61](#)
- [9 Schematic Diagram](#)
- [Notes](#)
- [10 Schematic Diagram](#)
- [11 Printed Circuit Board Diagram](#)
- [12 Type Illustration of ICs, Transistors and Diodes](#)
- [13 Wiring Connection Diagram](#)
- [14 Block Diagram](#)
- [15 Terminal Function of ICs](#)
- [15.1 IC901 \(C2BBFD000297\):System Control/FL Drive](#)
- [16 Replacement Parts List](#)
- [17 Cabinet Parts Location](#)
- [18 Packaging](#)

Service Manual

TOP NEXT

AD0102030C2

Service Manual

Tuner/Amplifier

- SA-EH570

Colour

(S).....Silver Type

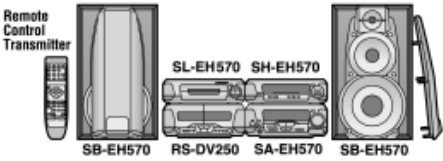
Areas

(E).....Europe.

(EB).....Great Britain.

(EG).....Germany, Italy, France, Netherlands and Denmark.

(EP).....East Europe and CIS.



Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

System	SC-EH570
Sound Processor	SH-EH570
Tuner/Amplifier	SA-EH570
CD Player	SL-EH570
Cassette Deck	RS-DV250
Front Speakers*	SB-EH570

*: Made in Spain.

Specifications

Amplifier section

Power output (L/R both channel driven):

DIN 1 kHz, THD 1 % (High);	2 x 25 W (6 Ω)
100 Hz, THD 1 % (Low);	2 x 65 W (8 Ω)
RMS 1 kHz, THD 10 % (High);	2 x 35 W (6 Ω)
100 Hz, THD 10 % (Low);	2 x 85 W (8 Ω)

Total harmonic distortion:

Rated power at 1 kHz;	1 % (6 Ω)
Half power at 1 kHz;	0.1 % (6 Ω)

Load impedance:

Main (High);	6 Ω
Main (Low);	8 Ω

DIGITAL S.WOOFER:

Center frequency;	60 Hz
LEVEL (VOL-20 dB):	MID +3 dB
	MAX +6 dB

FM tuner section

Frequency range: 87.50 – 108.00 MHz (0.05 MHz steps)

Sensitivity:	1.8 μV (IHF usable)
S/N 26 dB:	1.5 μV
S/N (MONO):	70 dB (75 dB, IHF)
Antenna terminal(s):	75 Ω (unbalanced)

AM tuner section

Frequency range: 522 – 1629 kHz (9 kHz steps)
520 – 1630 kHz (10 kHz steps)

Sensitivity (S/N 20 dB): 500 μV/m

Timer section

Clock:	Quartz - lock type
Function:	Play timer (1 time, daily), Rec timer (1 time, daily), Sleep (120 min, 30 min intervals)
Setting intervals (Play/Rec):	1 minute – 23 hours 59 minutes (1 min intervals)

General

Power supply:	AC 230 V, 50 Hz
(E), (EG), (EP) areas	AC 230 – 240 V, 50 Hz
(EB) area;	
Power consumption:	160 W
Standby;	0.5 W
Dimensions (W×H×D):	293×118.5×346 mm
Mass:	5.0 kg

Notes: Specifications are subject to change without notice.
Mass and dimensions are approximate.
Total harmonic distortion is measured by the digital spectrum analyzer.

© 2001 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

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.

Technics®

1 Before Repairs

[TOP](#) [PREVIOUS](#) [NEXT](#)

1. Turn off the power supply. Using a 10 Ω , 10 W resistor, connect both ends of power supply capacitors (C701, C703 and C702, C704) in order to discharge the voltage.
2. Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz in NO SIGNAL mode should be shown below with respectto supply voltage 230/240 V.

Power supply voltage	AC 230 V	AC 240 V
Consumed current 50 Hz	70 ~ 300 mA	

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

2 Protection Circuitry

[TOP](#) [PREVIOUS](#) [NEXT](#)

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.
- Sound stops during a performance.

The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are shorted, or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedures outlined below.

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

3 Accessories

[TOP](#) [PREVIOUS](#) [NEXT](#)

- AC power supply cord for (E), (EG), (EP) areas/(RJA0019-1X).....1 pc.



- AC power supply cord for (EB) area/(RJA0053-2X).....1 pc.



- AM loop antenna set/(RSA0022-L).....1 pc.



- FM indoor antenna/(RSA0007).....1 pc.



- Speaker cords/(REE0853).....2 pcs./ (REE1057).....2 pcs.

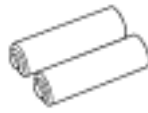


- Remote control transmitter/(EUR7702070).....1 pc.



- Remote control batteries/(R6/LR6, “AA”, UM-3).....2 pcs.

Note: These are available on sales route.



- Antenna plug adaptor for (EB) area only/(SJP9009).....1 pc.



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

4 Caution for AC Mains Lead

[TOP](#) [PREVIOUS](#) [NEXT](#)

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

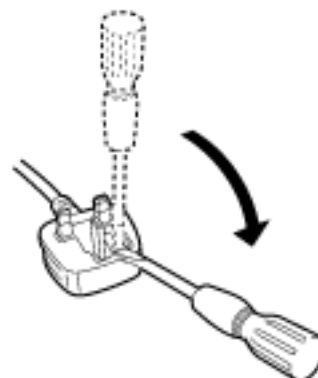
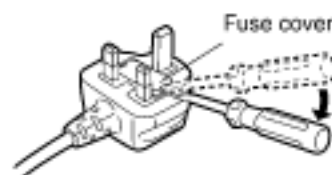


Figure B

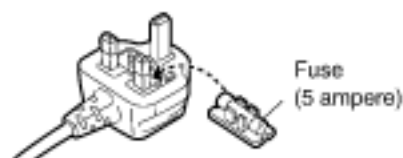


2. Replace the fuse and close or attach the fuse cover.

Figure A



Figure B





•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

5 Location of Controls

[TOP](#) [PREVIOUS](#) [NEXT](#)



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

6 Operation Checks and Component Replacement /Procedures

[TOP](#) [PREVIOUS](#) [NEXT](#)

- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

[6.1 Checking for the AC IN P.C.B.](#)

[6.2 Checking for the operation P.C.B.](#)

[6.3 Checking for the main P.C.B.](#)

[6.4 Replacement for the regulator transistor](#)

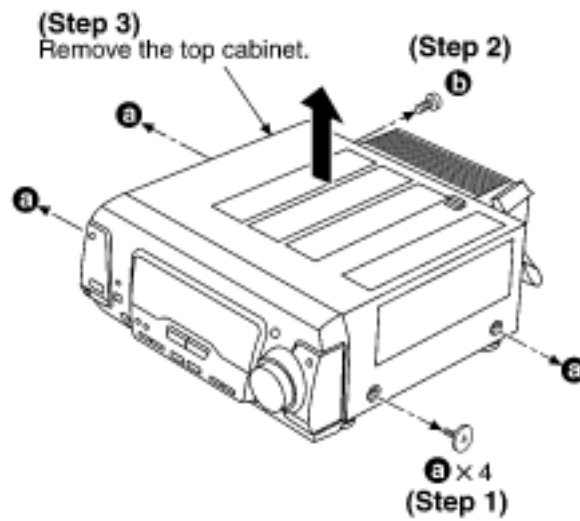
[6.5 Replacement for the power IC](#)

•@

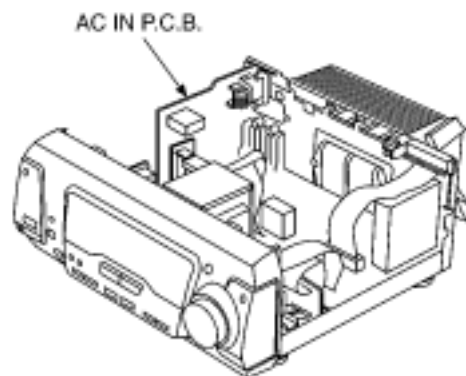
[TOP](#) [PREVIOUS](#) [NEXT](#)

6.1 Checking for the AC IN P.C.B.

[TOP](#) [PREVIOUS](#) [NEXT](#)



- Check the AC IN P.C.B. as shown below.



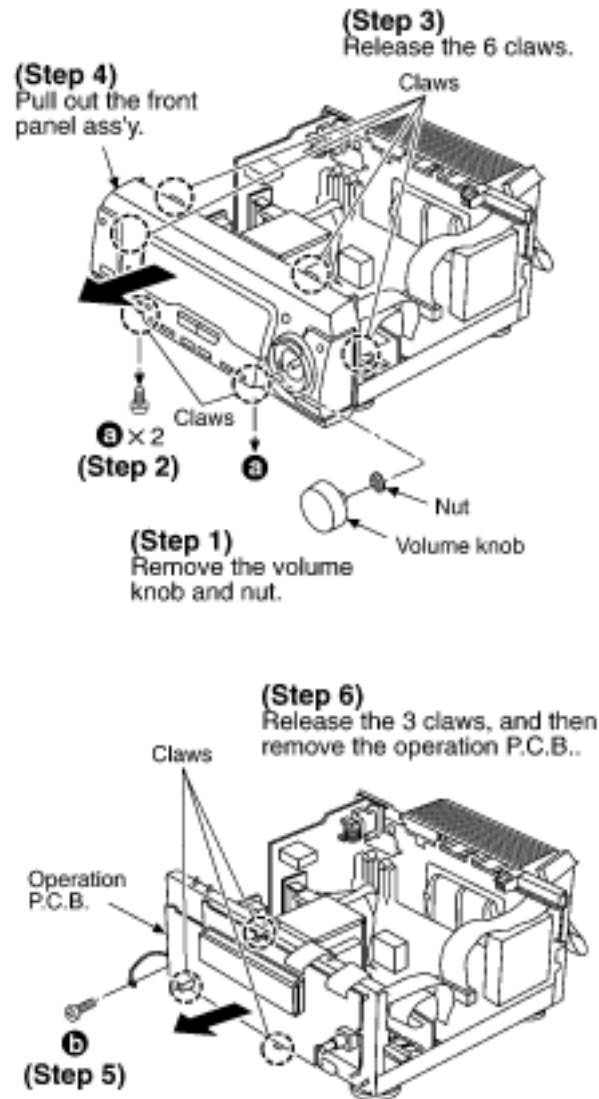
•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

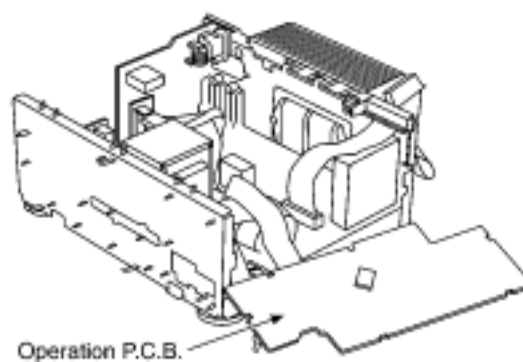
6.2 Checking for the operation P.C.B.

[TOP](#) [PREVIOUS](#) [NEXT](#)

- Follow the (Step 1) - (Step 3) of item 6.1.



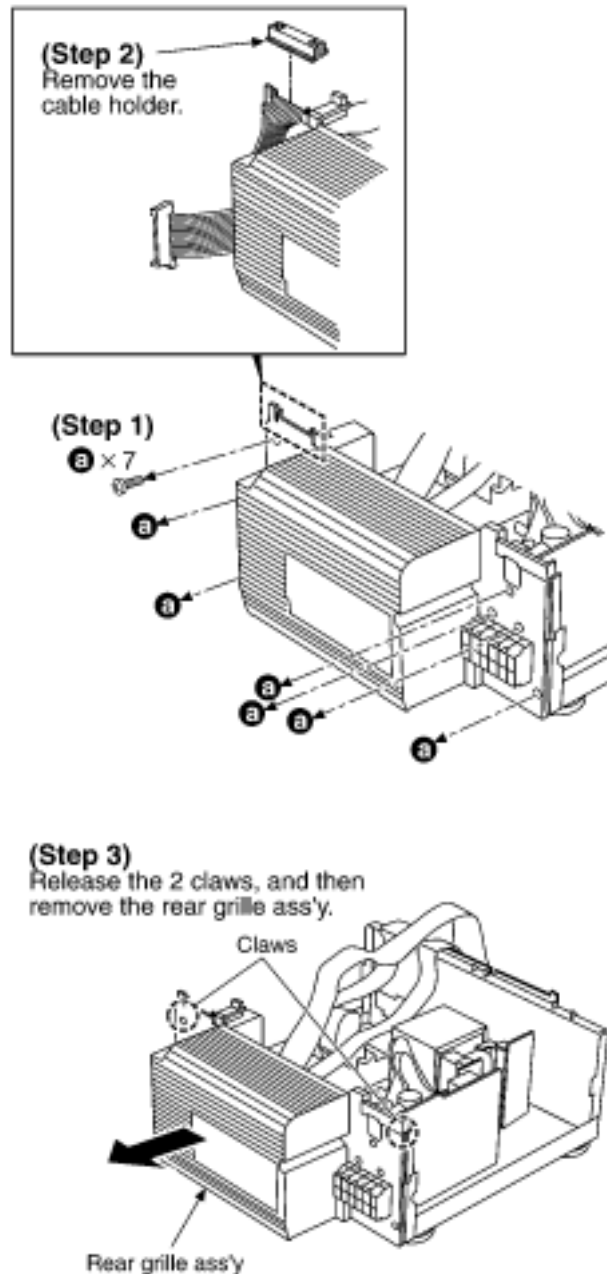
- Check the operation P.C.B. as shown below.

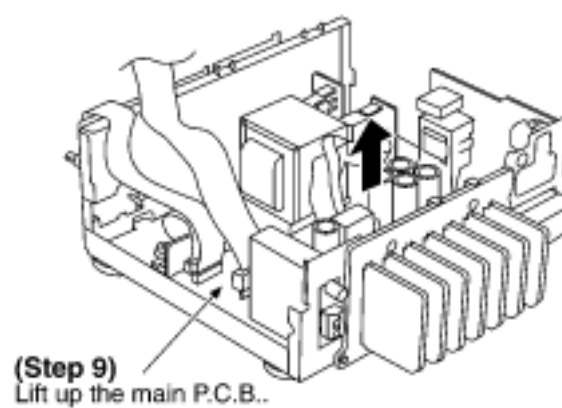
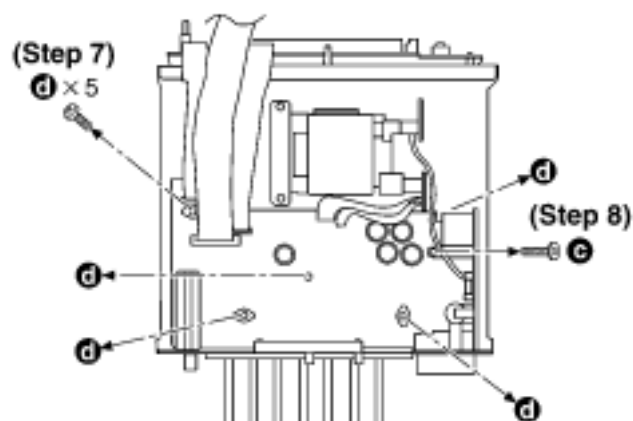
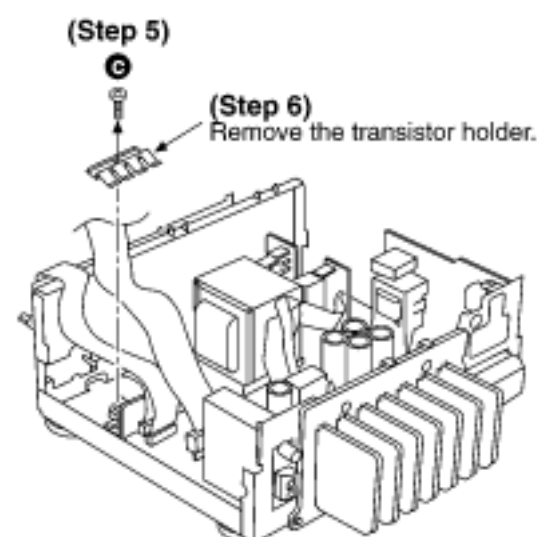
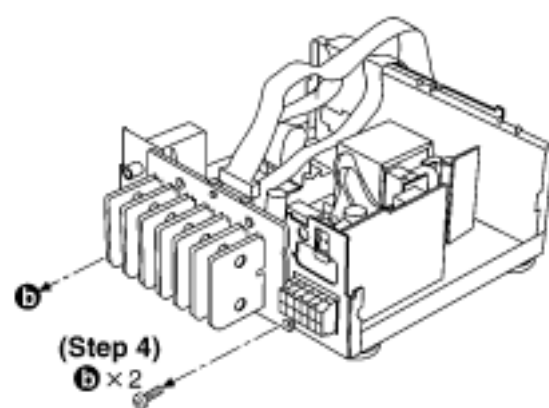


6.3 Checking for the main P.C.B.

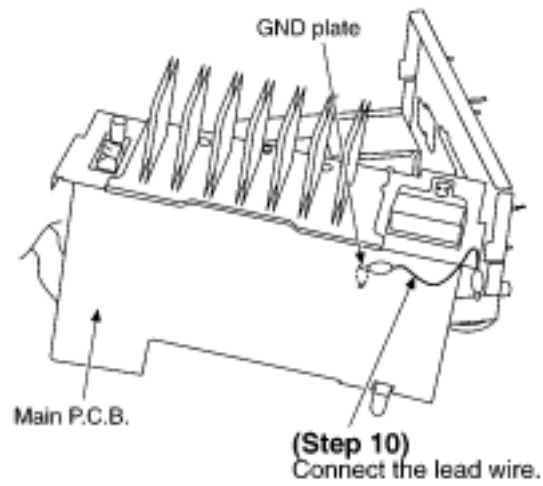
[TOP](#) [PREVIOUS](#) [NEXT](#)

- Follow the (Step 1) - (Step 3) of item 6.1.
- Follow the (Step 1) - (Step 6) of item 6.2.





- Check the main P.C.B. as shown below.



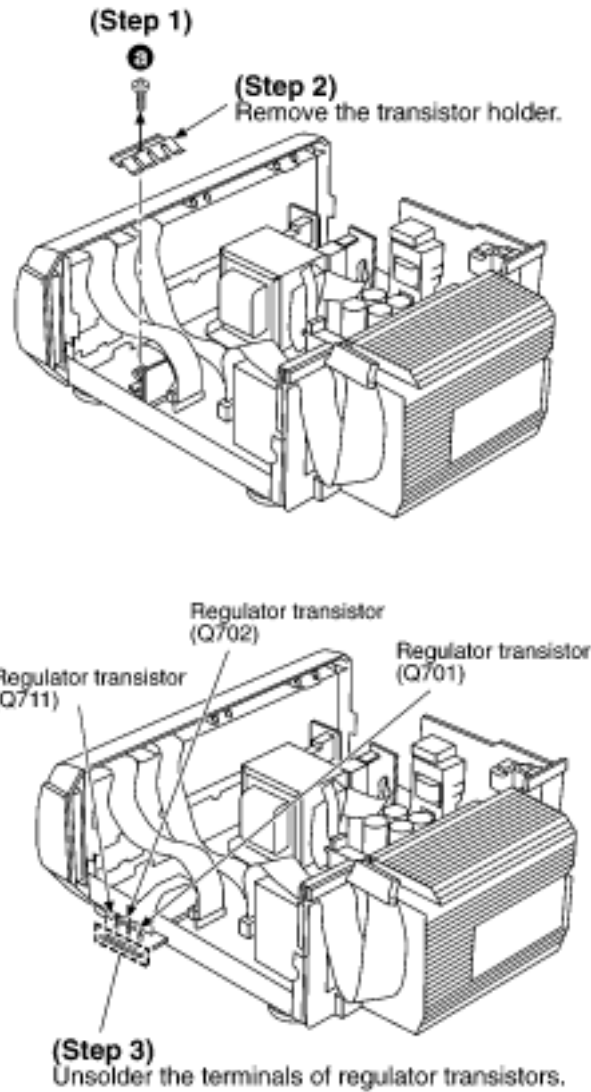
•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

6.4 Replacement for the regulator transistor

[TOP](#) [PREVIOUS](#) [NEXT](#)

- Follow the [\(Step 1\)](#) - [\(Step 3\)](#) of item 6.1.



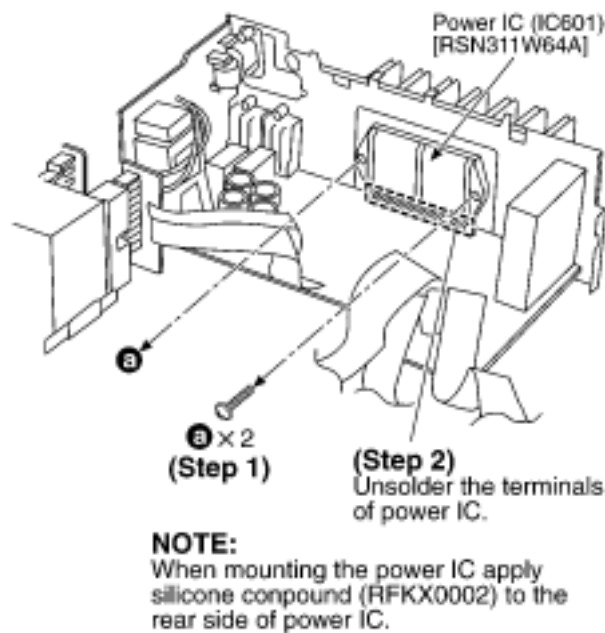
•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

6.5 Replacement for the power IC

[TOP](#) [PREVIOUS](#) [NEXT](#)

- Follow the (Step 1) - (Step 3) of item 6.1.
- Follow the (Step 1) - (Step 6) of item 6.2.
- Follow the (Step 1) - (Step 10) of item 6.3.



•@

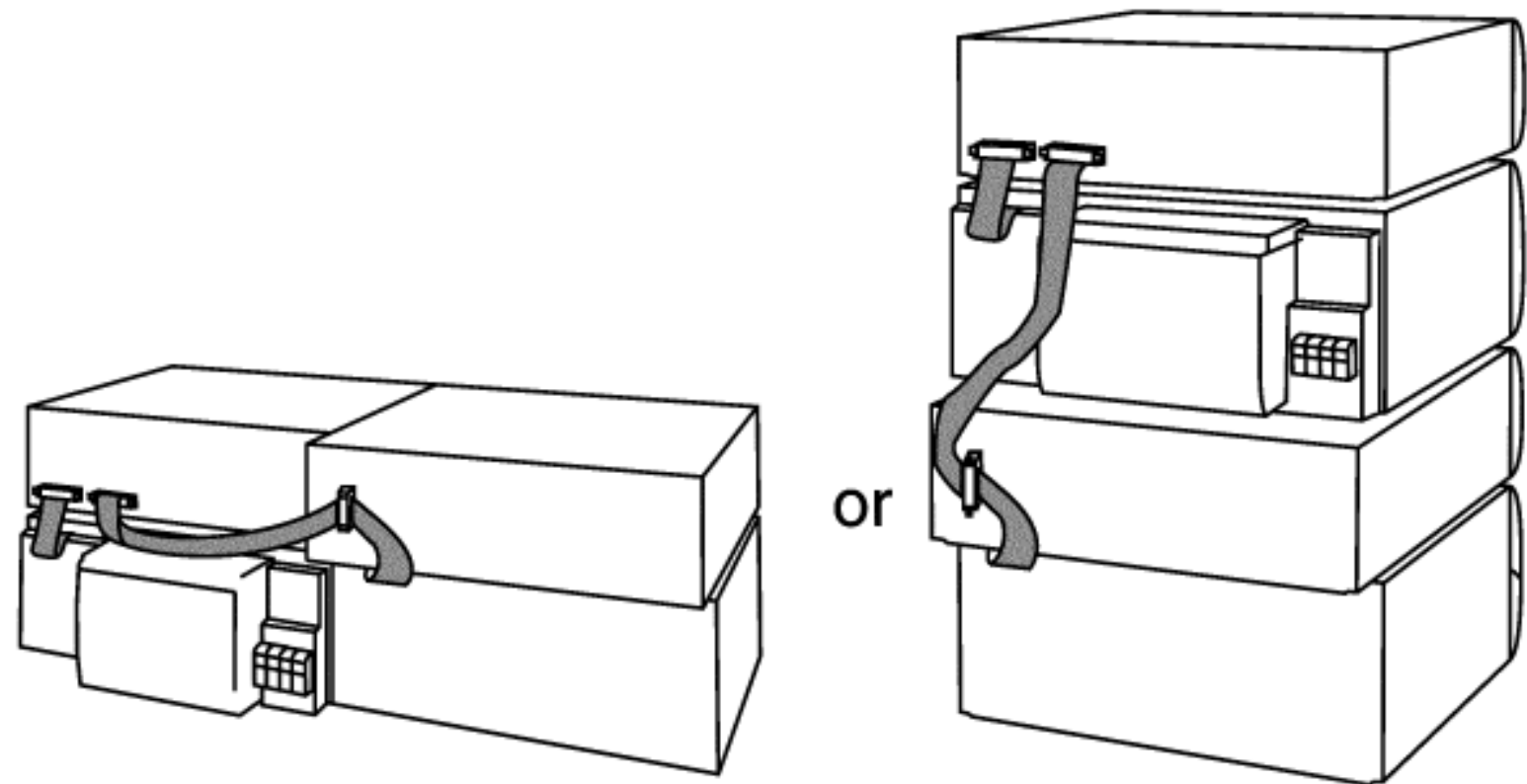
[TOP](#) [PREVIOUS](#) [NEXT](#)

7 To Supply Power Source

[TOP](#) [PREVIOUS](#) [NEXT](#)

This unit SA-EH570 is designed to operate on power supplied from system connected. /For system connection, refer to [Fig. 7-1.](#)

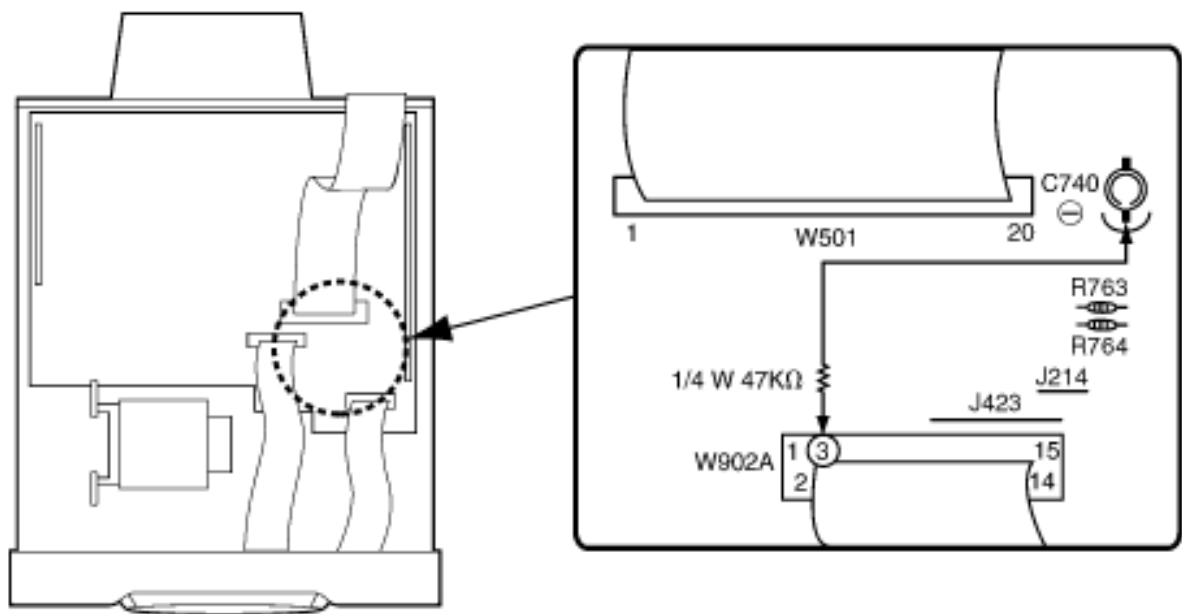
Fig. 7-1.



When the unit SA-EH570 has to test and service alone, use the following method to supply power source.

1. Short the section between [W902A Pin 3](#) and [C740 \(-\)](#) (GND). (Refer to [Fig. 7-2.](#))
2. Connect this unit to an AC power supply cord./ (This unit come to stand-by mode.)
3. Turn the unit ON.

Fig. 7-2.



Notes:

Use only this method when checking the voltage etc../In case of checking the operations, use the system connections to supply power source.

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

8 Self-Diagnostic Function

[TOP](#) [PREVIOUS](#) [NEXT](#)

This unit is equipped with a self-diagnostic function which, in the event of a malfunction, automatically displays a code indicating the nature of the malfunction.

Use this self-diagnostic function when servicing the unit.

[8.1 To display the malfunction code](#)

[8.2 To return to the normal display](#)

[8.3 Display contents](#)

[8.3.1 U70 CD, U70 DECK\(displayed automatically\)](#)

[8.3.2 F61](#)

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

8.1 To display the malfunction code

[TOP](#) [PREVIOUS](#) [NEXT](#)

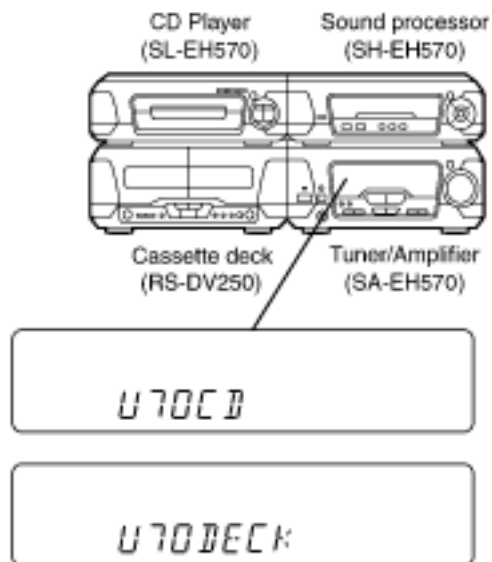
- U70 CD:/U70 DECK:

Automatically displays on the tuner/amplifier when a malfunction occurs. Refer to [Fig. 8-1](#).

- F61:

Automatically displays on the tuner/amplifier when a malfunction occurs. Refer to [Fig. 8-1](#).

Fig. 8-1.



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

8.2 To return to the normal display

[TOP](#) [PREVIOUS](#) [NEXT](#)

1. [For U70 CD/U70 DECK](#)

- Press an any operation button on the tuner/amplifier.
- To re-display the code, switch the power off (POWER STANDBY button), and then switch power back on again.

2. [For F61](#)

- If F61 is displayed, the power will automatically be switched off and the standby indicator will light up.
- F61 will be displayed for 3 seconds, and then the clock will be displayed.
- To re-display the code, switch the power on. F61 will be re-displayed, and then after 3 seconds the clock will be displayed and the power will automatically switch off.

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

8.3 Display contents

[TOP](#) [PREVIOUS](#) [NEXT](#)

[8.3.1 U70 CD, U70 DECK\(displayed automatically\)](#)

[8.3.2 F61](#)

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

8.3.1 U70 CD, U70 DECK/(displayed automatically)

[TOP](#) [PREVIOUS](#) [NEXT](#)

- [Problem or condition](#)

A bus-line communications error has occurred as a result of the flat cables being inserted incorrectly, thus preventing the system from operating.

- If U70 is displayed on the tuner/amplifier, the tape deck or CD Player cannot be operated by remote control.

- [Correction Procedure](#)

1. To check for correct insertion of flat cables.

- Insert each connectors until you hear a click.
- Insert the flat cables at the back of the unit in the order indicated. Refer to [Fig. 8-2](#).

Make sure the white side of the cables is on your right side. Refer to [Fig. 8-3](#).

Fig. 8-2.

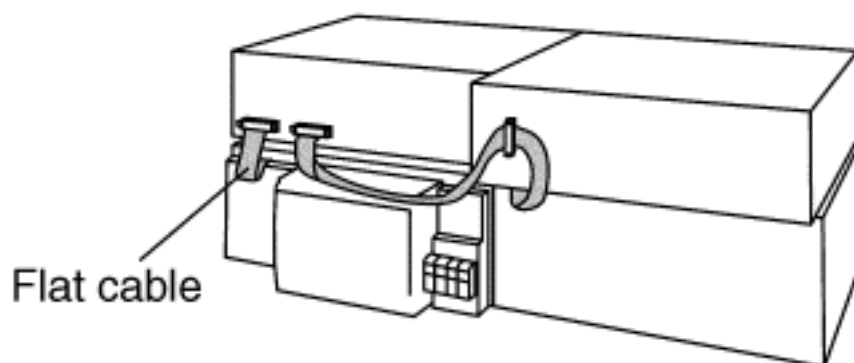
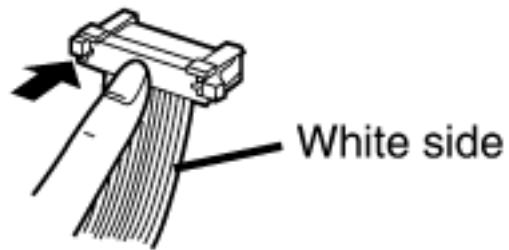


Fig. 8-3.



- Breakage of flat cables. (Check and replace.)
- If the problem is not corrected by items 1 and 2 above, this indicates a faulty IC.

[SA-EH570:](#)

IC901 (C2BBFD000297)

[SL-EH570:](#)

IC451 (M38504E6225F)

[RS-DV250:](#)

IC701 (M38503M2406F)

Check these ICs and replace.

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

8.3.2 F61

[TOP](#) [PREVIOUS](#) [NEXT](#)

- [Problem or condition](#)

When the power switch is switched on, it automatically switches back off, making it impossible to switch power on.

- [Correction procedure](#)

Faulty Tuner/Amplifier (SA-EH570) output IC (IC601). (When a DC voltage is applied to speaker terminals.)

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

9 Schematic Diagram Notes

[TOP](#) [PREVIOUS](#) [NEXT](#)

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

Notes:

- S901:

Power standby/on switch (



/I)

- S902:

Clock/timer switch (CLOCK/TIMER)

- S903:

Demo switch (



DEMO)

- S904:

Play timer/record timer switch/(



PLAY/



REC)

- S905:

FM mode switch/(FM AUTO/MONO)

- S906:

Tuning mode switch/(TUNING MODE)

- S907:

Set switch (SET)

- S908:

Source input switch/(INPUT SELECTOR)

- S910:

Tuning down switch (TUNING,

∇)

- S911:

Tuning up switch (TUNING,

$\wedge$)

- S912:

Tuner/band switch (TUNER/BAND)

- S913:

Digital super woofer switch/(DIGITAL S.WOOFER)

- S914:

RDS display mode PS switch/(RDS DISP MODE-PS)/ [\[Except for \(EB\) area\]](#)

- S915:

RDS display mode PTY switch/(RDS DISP MODE-PTY)/ [\[Except for \(EB\) area\]](#)

- VR901:

Volume control VR (VOLUME)

- 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

: Power ON (FM or AM)

- Important safety notice:

Components identified by  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.

- **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.

- Voltage and signal line

-



: Positive voltage line

-



: Negative voltage line

○



: AM signal line

○



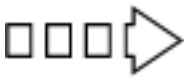
: AM OSC signal line

○



: FM signal line

○



: FM OSC signal line

○



: Audio signal line

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

10 Schematic Diagram

[TOP](#) [PREVIOUS](#) [NEXT](#)



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

11 Printed Circuit Board Diagram

[TOP](#) [PREVIOUS](#) [NEXT](#)



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

12 Type Illustration of ICs, Transistors and Diodes

[TOP](#) [PREVIOUS](#) [NEXT](#)



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

13 Wiring Connection Diagram

[TOP](#) [PREVIOUS](#) [NEXT](#)



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

14 Block Diagram

[TOP](#) [PREVIOUS](#) [NEXT](#)



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

15 Terminal Function of ICs

[TOP](#) [PREVIOUS](#) [NEXT](#)

[15.1 IC901 \(C2BBFD000297\):System Control/FL Drive](#)

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

15.1 IC901 (C2BBFD000297):/System Control/FL Drive

[TOP](#) [PREVIOUS](#) [NEXT](#)

Pin No.	Terminal Name	I/O	Function
1	CHECK	I	Clock check signal input
2	LC72 DI	O	PLL data signal output for tuner unit (Z120)
3	LC72 CE	O	Chip enable signal output for tuner unit (Z120)
4	LC72 DI/ST	I	IF count data/stereo detect signal input from tuner unit (Z120)
5	LC72 CK	O	Clock signal output for tuner unit (Z120)
6	ST/AV./6CH	-	Not used, open
7	NC	-	Not used, open
8			
9	SEL TUNER	-	Not used, open
10	SEL/ TUNER	-	Not used, connected to GND
11	AC IN	I	Power failure detect signal input
12	RESET	I	Reset signal input
13	X IN	I	Oscillator connected terminal (32.7 kHz)
14	X OUT	O	
15	VSS	-	GND terminal
16	XC IN	I	Oscillator connected terminal (6 MHz)
17	XC OUT	O	
18	VDD1	I	Power supply terminal
19	KEY TU	I	Operation key signal input
20	KEY KARAOKE	I	Operation key signal input
21	SH REQ	I	Request signal input from Sound Processor
22	NC(GND)	-	Not used, connected to GND
23	VR JOGB	I	Volume control signal input
24	VR JOGA		
25	MIC DET	I	Microphone connecting detect signal input (Not used, connected to VDD)
26	HP SW	I	Headphone connecting detect signal input
27	RDS CLK	I	RDS clock signal input
28	RDS DATA	I	RDS data signal input
29	REMO/CON	I	Remote control signal input

30 37	8G 1G	O	Grid signal output
38 45	P1 P8	O	Segment signal output
46	VDD3	I	Power supply terminal
47 50	P9 P12	O	Segment signal output
51	-VP	I	Power supply terminal (Negative)
52 71	P13 P32	O	Segment signal output
72	VDD4	I	Power supply terminal
73 78	P33 P38	O	Segment signal output
79	REGIN0	-	Not used, connected to GND
80	REGIN1		
81	STANDBY	O	LED (STANDBY) drive signal output
82	TIMER	O	LED (TIMER) drive signal output
83	S.W.LED	O	LED (DIGITAL S.WOOFER) drive signal output
84	LOUNGE	-	LED (LOUNGE) drive signal output (Not used, connected to GND)
85	CHORUS	-	LED (CHORUS) drive signal output (Not used, connected to VDD)
86	MUTE	O	Muting signal output
87	NC	-	Not used, open
88	POWER	O	Power control signal output
89	VSS2	-	GND terminal
90	VDD2	I	Power supply terminal
91	MUTE2	O	Muting signal output
92	NC	-	Not used, open
93	MUTE3	O	Muting signal output
94	SH CS	O	Chip select signal output for Sound Processor
95	SH DO	O	Serial communication signal to Sound Processor (Data signal output)
96	SH DI	I	Serial communication signal to Sound Processor (Data signal input)
97	SH CK	I	Serial communication signal to Sound Processor (Clock signal input)
98	E DET	I	Unusual condition detect signal input
99	CR TIMER	-	Not used, open

100	SD	I	Station detector signal input from tuner unit (Z120)
-----	----	---	--

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

16 Replacement Parts List

[TOP](#) [PREVIOUS](#) [NEXT](#)

Notes:

- Important safety notice:

Components identified by  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.
- The <IA> <IB> <IC> <ID> <IE> marks in Remarks indicate language of instruction manual.

<IA>: Spanish

<IB>: English

<IC>: German, Italian, French

<ID>: Netherlands, Danish, Swedish

<IE>: Russian, Polish, Czech
- The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
- The marking [RTL] indicates that Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependenton the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- All parts are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

<u>1</u>	RKM0395F-S	CABINET	1	
2	RHD30007-1S	SCREW	4	
3	XTBS3+10JFZ1	SCREW	1	
<u>4</u>	REX0967	WIRE ASS'Y	1	
<u>5</u>	RMQ1018	GASKET	1	
<u>6</u>	RGW0317-S	KNOB,VOLUME	1	
<u>7</u>	RHN90001	NUT	1	
<u>8</u>	RKA0106-N	FOOT RING	4	
<u>9</u>	RKF0606M-K	BACK GRILL	1	
<u>10</u>	RKW0581-1V	FL WINDOW	1	
<u>11</u>	RMN0427A	CABLE HOLDER	1	
<u>12</u>	RYP1010-S	FRONT PANEL ASS'Y	1	(E,EG,EP)
12	RYP1010A-S	FRONT PANEL ASS'Y	1	(EB)
<u>12-1</u>	RGB0025-A	TECHNICS BADGE	1	
<u>13</u>	SHG1654	RUBBER	4	
14	XTB3+10JFZ	SCREW	10	
15	XTB3+8JFZ	SCREW	11	
16	XTW3+15T	SCREW	2	
17	XTBS3+8JFZ1	SCREW	2	
<u>18</u>	RLBT4001-N	FERRITE CORE	1	
<u>19</u>	RMN0582	HOLDER	1	
20	XTB3+12FFZ	SCREW	1	
21	XTB3+20JFZ	SCREW	1	
<u>A1</u>	EUR7702070	REMOTE CONTROLLER	1	
<u>A1-1</u>	UR64EC2337E	BATTERY COVER	1	
<u>A2</u>	REE0853	SP CORD(GRAY/BLUE)	2	
<u>A3</u>	REE1057	SP CORD(RED/BLACK)	2	
<u>A4</u>	SJP9009	ANT.ADAPTOR	1	(EB)
<u>A5</u>	RJA0019-1X	AC POWER SUPPLY /CORD	1	(E,EG,EP)/ 
A5	RJA0053-2X	AC POWER SUPPLY /CORD	1	(EB) 
<u>A6</u>	RQCA0801	DEMO GUIDE	1	
A7	RQCB0169	SERVICE CENTER LIST	1	
<u>A8</u>	RQT5756-E	OPERATING /INSTRUCTIONS	1	(E)<IA>
A8	RQT5753-B	OPERATING /INSTRUCTIONS	1	(EB,EP)<IB>

A8	RQT5751-D	OPERATING /INSTRUCTIONS	1	(EG)<IC>
A8	RQT5752-H	OPERATING /INSTRUCTIONS	1	(EG)<ID>
A8	RQT5757-R	OPERATING /INSTRUCTIONS	1	(EP)<IE>
A9	RSA0007	FM INDOOR ANTENNA	1	
A10	RSA0022-L	AM LOOP ANTENNA	1	
C151	ECA1CAK100XB	16V 10U	1	
C152	ECBT1H331KB5	50V 330P	1	F1D1H331A012
C153	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C154	ECBT1H561KB5	50V 560P	1	F1D1H561A012
C155	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C156,57	ECBT1H470J5	50V 47P	2	F1D1H470A006
C158,59	RCE0JKA470BG	6.3V 47U	2	F2A0J470A014
C160	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C395,96	ECBT1H473KB5	50V 0.047U	2	
C509,10	ECBT1H103KB5	50V 0.01U	2	
C550	ECBT1H103KB5	50V 0.01U	1	
C551	ECA1HAK2R2XB	50V 2.2U	1	
C552	ECBT1H103KB5	50V 0.01U	1	
C553	RCE1HKAR47BG	50V 0.47U	1	F2A1HR47A015
C554	ECA1AAK221XH	10V 220U	1	
C602	ECA1CAK100XB	16V 10U	1	
C603,04	ECBT1H471KB5	50V 470P	2	F1D1H471A012
C607,08	ECBT1H471KB5	50V 470P	2	F1D1H471A012
C611,12	ECBT1H150JC5	50V 15P	2	
C613,14	ECBT1H470J5	50V 47P	2	F1D1H470A006
C616	ECEA1HKNR47B	50V 0.47U	1	
C617,18	ECKR2H103ZU	500V 0.01U	2	
C619-21	ECBT1H104KB5	50V 0.1U	3	
C622	RCE1AKA101BG	10V 100U	1	F2A1A1010020
C626-31	ECBT1H104KB5	50V 0.1U	6	
C632	ECBT1H473KB5	50V 0.047U	1	
C635-37	ECBT1H473KB5	50V 0.047U	3	
C639-42	ECBT1H102KB5	50V 1000P	4	F1D1H102A012
C647-50	ECBT1H102KB5	50V 1000P	4	F1D1H102A012
C655,56	ECA1CAK100XB	16V 10U	2	
C664	ECEA1CKS100	16V 10U	1	

C671,72	ECBT1H104KB5	50V 0.1U	2	
C673	ECA2AM010	100V 1U	1	
C701,02	F2B1V4720004	4700U	2	
C703,04	ECA1VM332	3300U	2	
C705	ECBT1H103KB5	50V 0.01U	1	
C706	RCE1VKA100BG	35V 10U	1	F2A1V1000011
C707,08	ECBT1H473KB5	50V 0.047U	2	
C709	ECQV1H104JM3	50V 0.1U	1	
C710	ECBT1H473KB5	50V 0.047U	1	
C714	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C715	ECA1EAM472XE	4700U	1	
C717	ECA1CAK330XB	16V 33U	1	
C718	ECA1CAK101XB	16V 100U	1	
C719,20	ECBT1H473KB5	50V 0.047U	2	
C721	RCE1AKA101BG	10V 100U	1	F2A1A1010020
C722	ECA1CAK101XB	16V 100U	1	
C723,24	ECBT1H473KB5	50V 0.047U	2	
C725	ECA1CAK470XB	16V 47U	1	
C731	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C732	ECBT1H223KB5	50V 0.022U	1	F1D1H223A012
C733	ECBT1H473KB5	50V 0.047U	1	
C734	RCE1HKA3R3BG	50V 3.3U	1	F2A1H3R3A015
C735	ECBT1H473KB5	50V 0.047U	1	
C737	ECA1HM101	100U	1	
C740	ECA1CAK100XB	16V 10U	1	
C741	ECQE1104KF3	100V 0.1U	1	
C753	ECKR1H103ZF5	50V 0.01U	1	F1B1H1030001
C754	ECBT1H103KB5	50V 0.01U	1	
C755	ECA1CAM102XB	1000U	1	
C758	ECBT1H103KB5	50V 0.01U	1	
C759	RCE1AKA470BG	10V 47U	1	F2A1A470A011
C761	ECQE1104KF3	100V 0.1U	1	
C791	ECKWRS102MBC	1000P	1	
C901	EEAFC0J101B	6.3V 100U	1	
C902	RCE1AM102BV	10V 1000U	1	
C903,04	ECBT1H103KB5	50V 0.01U	2	

C905	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C907,08	ECBT1H471KB5	50V 470P	2	F1D1H471A012
C909	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C910	ECBT1H200JC5	50V 20P	1	F1D1H200A015
C911	ECBT1H180J5	50V 18P	1	F1D1H180A006
C912	ECBT1H104KB5	50V 0.1U	1	
C914	ECA1HAK2R2XB	50V 2.2U	1	
C915	ECBT1H103KB5	50V 0.01U	1	
C916	EEAFC0J101B	6.3V 100U	1	
C917	ECBT1H103KB5	50V 0.01U	1	
C918	ECA0JAK101XB	6.3V 100U	1	
C919,20	RCE1HKA4R7BG	50V 4.7U	2	F2A1H4R70009
C921	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C922	ECA1VAK330XB	35V 33U	1	
C923,24	ECBT1H104KB5	50V 0.1U	2	
C925,26	ECBT1H102KB5	50V 1000P	2	F1D1H102A012
C927,28	RCE1HKA4R7BG	50V 4.7U	2	F2A1H4R70009
CN602	RJU057W008	CONNECTOR(8P)	1	K1KB08B00034
CN701-13	RJS1A1101T1	CONNECTOR(1P)	13	
CN781	RJS10T5ZA	CONNECTOR(10P)	1	K1MP10A00007
CP101	RJT100W11	CONNECTOR(11P)	1	
CP602	RJT057W008-1	CONNECTOR(8P)	1	K1KA08A00187
D151	MA4051M	DIODE	1	MAZ40510M
D306	SELS5223C	LED	1	B3AAA0000486
D500	MA165	DIODE	1	MA2C165
D551,52	MA165	DIODE	2	MA2C165
D555	MA4100M	DIODE	1	MAZ41000M
D558	MA165	DIODE	1	MA2C165
D601,02	SB360L6508	DIODE	2	B0JAPG000014
D607	1SS291TA	DIODE	1	
D611	MA4051M	DIODE	1	MAZ40510M
D657-59	MA165	DIODE	3	MA2C165
D671,72	MA4140M	DIODE	2	MAZ41400MF
D673	MA4180L	DIODE	1	MAZ41800L

D701-04	1N5402BF	DIODE	4	
D705	RL1N4003N02	DIODE	1	
D711	RL1N4003N02	DIODE	1	
D717-20	RL1N4003N02	DIODE	4	
D721	MA4300M	DIODE	1	MAZ43000M/ 
D723	MA4150M	DIODE	1	MAZ41500M/ 
D725	MA4082LTA	DIODE	1	MAZ40820LF/ 
D730	MA4091H	DIODE	1	MAZ40910HF/ 
D737	MA4082LTA	DIODE	1	MAZ40820LF/ 
D738-40	MA165	DIODE	3	MA2C165
D741-44	RL1N4003N02	DIODE	4	
D745	MA4051M	DIODE	1	MAZ40510M
D746	RL1N4003N02	DIODE	1	
D747	MA4068L	DIODE	1	MAZ40680L/ 
D751,52	1N5402BF	DIODE	2	
D753-55	RL1N4003N02	DIODE	3	
D756,57	MA700	DIODE	2	MA2C700
D758	MA165	DIODE	1	MA2C165
D761	RL1N4003N02	DIODE	1	
D901,02	1SS291TA	DIODE	2	
D904	MA165	DIODE	1	MA2C165
D905	1SS291TA	DIODE	1	
D906,07	MA165	DIODE	2	MA2C165
D933	MA165	DIODE	1	MA2C165
D951	LNJ301MPUJAD	LED	1	
D954	SELS5923C	LED	1	B3ADA0000083
D973	MA4030M	DIODE	1	MAZ40300M
D974	MA165	DIODE	1	MA2C165
F1	XBA2C20TB0	FUSE	1	K5D202BL0001/ 
FL901	A2BB00000084	FL DISPLAY	1	
IC151	C1BB00000527	IC	1	
IC601	RSN309W44B	IC	1	

IC901	C2BBFD000297	IC	1	
JK601,02	K4BC04B00028	JACK,SPEAKERS	2	
JK701	SJS9236-1	JACK,AC INLET	1	K2AA2B000002/ 
JK903	RJJ37TN02-C	JACK,HEADPHONES	1	K2HC103A0009
L151,52	ELEXT101KA9	COIL	2	
L153	RLQA1R0JT1-Y	COIL	1	G0C1R0JA0019
L601,02	RLQYR73MW1-0	COIL	2	G0ZZ00001606
L605,06	RLQYR73MW1-0	COIL	2	G0ZZ00001606
L701	RLQZ371	COIL	1	ELF15N035AN/ 
L901	RLQA100JT1-Y	COIL	1	G0C100JA0019
L902	RLQA1R0JT1-Y	COIL	1	G0C1R0JA0019
<u>P1</u>	RPG5273	PACKING CASE/(SYSTEM)	1	(E)
P1	RPG5272	PACKING CASE/(SYSTEM)	1	(EB)
P1	RPG5271	PACKING CASE/(SYSTEM)	1	(EG)
P1	RPG5274	PACKING CASE/(SYSTEM)	1	(EP)
<u>P2</u>	RPQ0951	PAD(SYSTEM)	1	
<u>P3</u>	RPG4397	PACKING CASE(RS)	1	
<u>P3</u>	RPG4396	PACKING CASE(SA)	1	
<u>P3</u>	RPG4398	PACKING CASE(SH)	1	
<u>P3</u>	RPG4399	PACKING CASE(SL)	1	
<u>P4</u>	RPN1195-2	PAD(RS)	1	
<u>P4</u>	RPN1194	PAD(SA)	1	
<u>P4</u>	RPN1196	PAD(SH)	1	
<u>P4</u>	RPN1203	PAD(SL)	1	
<u>P5</u>	RPF0139-1	PROTECTION BAG/(F.B.)	1	
<u>P6</u>	SPP740-1	SHEET	4	
PCB1	REP3115D-M	MAIN PCB	1	(E,EG,EP)/[RTL]
PCB1	REP3115E-M	MAIN PCB	1	(EB)[RTL]
PCB2	REP3116E-S	SUB PCB	1	(EB)[RTL]
PCB2	REP3116D-S	SUB PCB	1	(E,EG,EP)/[RTL]

Q503	2SC5398RSTA	TRANSISTOR	1	B1AACF000059
Q551	2SA1995RSTA	TRANSISTOR	1	B1ACDF000006
Q554	2SA1995RSTA	TRANSISTOR	1	B1ACDF000006
Q555	2SC3327A	TRANSISTOR	1	
Q601,02	2SC5398RSTA	TRANSISTOR	2	B1AACF000059
Q606	2SC3327A	TRANSISTOR	1	
Q609,10	2SC3327A	TRANSISTOR	2	
Q612	UN411FTA	TRANSISTOR	1	UNR411F00A
Q671,72	2SD1859QRTV2	TRANSISTOR	2	B1BAAJ000003
Q673	2SB1417PQTA	TRANSISTOR	1	2SB14170JA
Q701	2SD2374PQAU	TRANSISTOR	1	2SD23740J1AU/ 
Q702	2SB1548PQAU	TRANSISTOR	1	2SB15480J1AU/ 
Q705	2SA1995RSTA	TRANSISTOR	1	B1ACDF000006
Q707	2SB1417PQTA	TRANSISTOR	1	2SB14170JA/ 
Q708	UN4211	TRANSISTOR	1	UNR4211
Q709	2SC3327A	TRANSISTOR	1	
Q710	2SC3940AQSTA	TRANSISTOR	1	2SC3940ARA/ 
Q711	2SB1548PQAU	TRANSISTOR	1	2SB15480J1AU/ 
Q723	2SC3940AQSTA	TRANSISTOR	1	2SC3940ARA/ 
Q725	2SC5398RSTA	TRANSISTOR	1	B1AACF000059
Q726	2SC3940AQSTA	TRANSISTOR	1	2SC3940ARA/ 
Q791	2SC3327A	TRANSISTOR	1	
Q901	UN4212TA	TRANSISTOR	1	UNR421200A
R151,52	ERDS2FJ102	1/4W 1K	2	
R153,54	ERDS2FJ104	1/4W 100K	2	
R155	ERDS2FJ121	1/4W 120	1	
R157,58	ERDS2FJ102	1/4W 1K	2	
R229,30	ERDS2FJ102	1/4W 1K	2	
R509-12	ERDS2FJ470	1/4W 47	4	
R544	ERDS2FJ103	1/4W 10K	1	
R548	ERDS2FJ102	1/4W 1K	1	
R551,52	ERDS2FJ683	1/4W 68K	2	
R553,54	ERDS2FJ392	1/4W 3.9K	2	
R555	ERDS2FJ152	1/4W 1.5K	1	
R556	ERDS2FJ104	1/4W 100K	1	

R557	ERDS2FJ103	1/4W 10K	1	
R558	ERDS2FJ102	1/4W 1K	1	
R559	ERDS2FJ472	1/4W 4.7K	1	
R561	ERDS2FJ104	1/4W 100K	1	
R563,64	ERDS2FJ272	1/4W 2.7K	2	
R570	ERDS2TJ225	1/4W 2.2M	1	ERDS2TJ225T
R572	ERDS2FJ153	1/4W 15K	1	
R591	ERDS2FJ472	1/4W 4.7K	1	
R597,98	ERDS2FJ222	1/4W 2.2K	2	
R601-04	ERDS2FJ332	1/4W 3.3K	4	
R605,06	ERDS2FJ472	1/4W 4.7K	2	
R607,08	ERDS2FJ563	1/4W 56K	2	
R609,10	ERDS2FJ154	1/4W 150K	2	
R617,18	ERDS2FJ472	1/4W 4.7K	2	
R621	ERDS2FJ154	1/4W 150K	1	
R622,23	ERDS2FJ124	1/4W 120K	2	
R624	ERDS2FJ154	1/4W 150K	1	
R627	ERDS2FJ474	1/4W 470K	1	
R628	ERDS2FJ223	1/4W 22K	1	
R635	ERDS2FJ222	1/4W 2.2K	1	
R637	ERDS2FJ153	1/4W 15K	1	
R638	ERDS2FJ683	1/4W 68K	1	
R639,40	ERDS1FJ100	10	2	
R641,42	ERDS2FJ100	1/4W 10	2	
R647,48	ERDS2FJ2R2	2.2	2	
R649-52	ERDS1FJ100	10	4	
R671,72	ERDS2FJ272	1/4W 2.7K	2	
R673	ERDS2FJ331	1/4W 330	1	
R674	ER0S2TKF5362	1/4W 53.6K	1	EROS2TKF5362
R675	ER0S2TKG5622	1/4W 56.2K	1	EROS2TKG5622
R684	ERDS2FJ102	1/4W 1K	1	
R687,88	ERDS2FJ152	1/4W 1.5K	2	
R692,93	ERDS2FJ102	1/4W 1K	2	
R694	ERDS2FJ223	1/4W 22K	1	
R695	ERDS2FJ471	1/4W 470	1	
R696	ERDS2FJ473	1/4W 47K	1	
R707	ERD2FCJ4R7	4.7	1	

R708	ERDS2FJ472	1/4W 4.7K	1	
R712	ERDS2FJ222	1/4W 2.2K	1	
R719	ERDS2FJ332	1/4W 3.3K	1	
R720	ERDS2FJ392	1/4W 3.9K	1	
R721	ERD2FCJ4R7	4.7	1	
R722	ERQ16NKGW2R2E	2.2	1	
R723	ERDS2FJ562	1/4W 5.6K	1	
R724	ERDS2FJ392	1/4W 3.9K	1	
R725	ERDS2FJ100	1/4W 10	1	
R727	ERDS2FJ392	1/4W 3.9K	1	
R729	ERDS2FJ221	1/4W 220	1	
R738	ERDS2FJ392	1/4W 3.9K	1	
R739	ERDS2FJ473	1/4W 47K	1	
R749	ERDS2FJ102	1/4W 1K	1	
R763	ERDS2FJ472	1/4W 4.7K	1	
R764	ERDS2FJ331	1/4W 330	1	
R765	ERDS1FJ221	220	1	
R767	ERD2FCJ4R7	4.7	1	
R768	ERDS2FJ101	1/4W 100	1	
R769	ERD25V0R00T	1/4W 0	1	
R771	ERDS2FJ222	1/4W 2.2K	1	
R772	ERDS2FJ223	1/4W 22K	1	
R773,74	ERDS1FJ180	18	2	ERDS1FVJ180T/ 
R776	ERDS2FJ103	1/4W 10K	1	
R777	ERDS2FJ102	1/4W 1K	1	
R791,92	RSFMB40KT-L	FUSE PROTECTOR	2	K5G402A00010/ 
R793	ERDS2FJ1R0	1/4W 1	1	
R794	ERDS2FJ473	1/4W 47K	1	
R795	ERDS2FJ392	1/4W 3.9K	1	
R797	ERDS2T0T	1/4W 0	1	
R901	ERDS2FJ821	1/4W 820	1	
R902	ERDS2FJ102	1/4W 1K	1	
R903	ERDS2FJ122	1/4W 1.2K	1	
R904	ERDS2FJ152	1/4W 1.5K	1	
R905	ERDS2FJ182	1/4W 1.8K	1	
R906	ERDS2FJ222	1/4W 2.2K	1	

R907	ERDS2FJ332	1/4W 3.3K	1	
R909	ERDS2FJ182	1/4W 1.8K	1	
R910	ERDS2FJ222	1/4W 2.2K	1	
R911	ERDS2FJ332	1/4W 3.3K	1	
R912	ERDS2FJ472	1/4W 4.7K	1	
R913	ERDS2FJ821	1/4W 820	1	
R914	ERDS2FJ102	1/4W 1K	1	
R915	ERDS2FJ122	1/4W 1.2K	1	
R916	ERDS2FJ152	1/4W 1.5K	1	
R918	ERDS2FJ103	1/4W 10K	1	
R919	ERDS2FJ153	1/4W 15K	1	
R921,22	ERDS2FJ103	1/4W 10K	2	
R924,25	ERDS2FJ102	1/4W 1K	2	
R926	ERDS2FJ222	1/4W 2.2K	1	
R928	ERDS2FJ473	1/4W 47K	1	
R929-32	ERDS2FJ102	1/4W 1K	4	
R934-36	ERDS2FJ101	1/4W 100	3	
R937	ERDS2FJ103	1/4W 10K	1	
R939	ERDS2FJ152	1/4W 1.5K	1	
R943	ERDS2FJ101	1/4W 100	1	
R944	ERDS2FJ222	1/4W 2.2K	1	
R945	ERDS2FJ101	1/4W 100	1	
R946	ERDS2FJ102	1/4W 1K	1	
R947,48	ERDS2FJ104	1/4W 100K	2	(EB)
R949	ERDS2FJ472	1/4W 4.7K	1	
R950	ERDS2FJ101	1/4W 100	1	
R951	ERDS2FJ334	1/4W 330K	1	
R952	ERDS2TJ106T	1/4W 10M	1	
R953	ERDS2FJ101	1/4W 100	1	
R954	ERDS2FJ104	1/4W 100K	1	
R956-58	ERDS2FJ102	1/4W 1K	3	
R959	ERDS2FJ470	1/4W 47	1	
R960	ERDS2FJ152	1/4W 1.5K	1	
R961,62	ERDS2FJ223	1/4W 22K	2	
R969	ERDS2FJ272	1/4W 2.7K	1	
R972,73	ERDS2FJ104	1/4W 100K	2	
R976	ERDS2FJ104	1/4W 100K	1	

R986	ERDS2FJ152	1/4W 1.5K	1	
R987,88	ERDS2FJ102	1/4W 1K	2	
R990	ERDS2FJ104	1/4W 100K	1	
R991	ERDS2FJ473	1/4W 47K	1	
R993,94	ERDS2FJ104	1/4W 100K	2	
R995	ERDS2FJ221	1/4W 220	1	
R996,97	ERDS2FJ151	1/4W 150	2	
R999	ERDS2FJ104	1/4W 100K	1	
RL702	RSY0040M-0	RELAY	1	
S901-08	EVQ11G05R	SW	8	
S910-15	EVQ11G05R	SW	6	
T701	RTP2N5B012	POWER TRANSFORMER	1	ETP76VST71SA/ 
T702	RTP1H3E001	POWER TRANSFORMER	1	
VR901	EVQVBXFK124B	V.R.	1	
X151	RSXC4M33S02T	OSCILLATOR	1	H0H433400001
X901	EF0EC6004T4	OSCILLATOR	1	EFOEC6004T4
X902	RSXD32K7S02	OSCILLATOR	1	H0A327200027
Z120	RAN0005EM-2	TUNER UNIT	1	
Z701	ENC471D5ATRB	ZNR	1	J0LG00000006/ 
Z901	B3RAD0000028	REMOTE SENSOR	1	

•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

17 Cabinet Parts Location

[TOP](#) [PREVIOUS](#) [NEXT](#)



•@

[TOP](#) [PREVIOUS](#) [NEXT](#)

18 Packaging

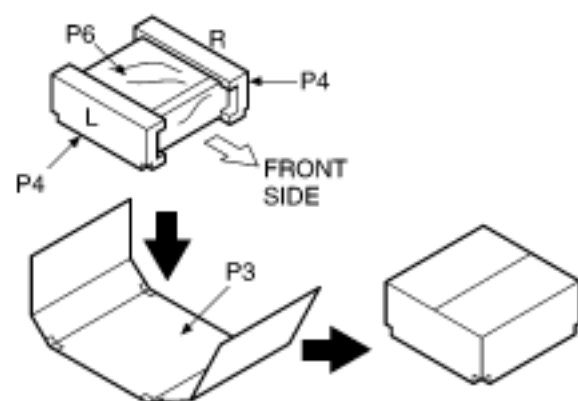
[TOP](#) [PREVIOUS](#)



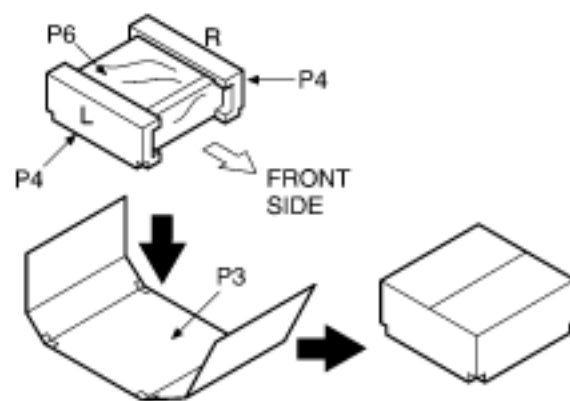
•@

[TOP](#) [PREVIOUS](#)

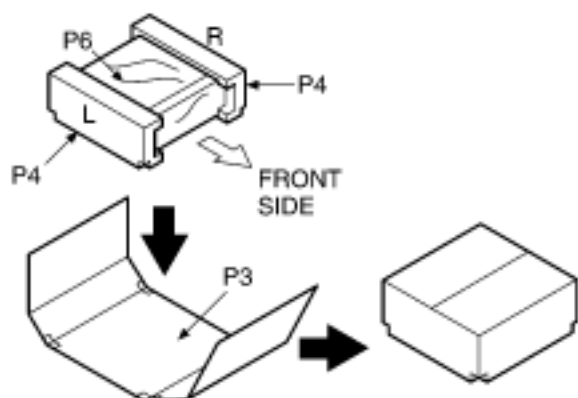
Sound Processor : SH-EH570



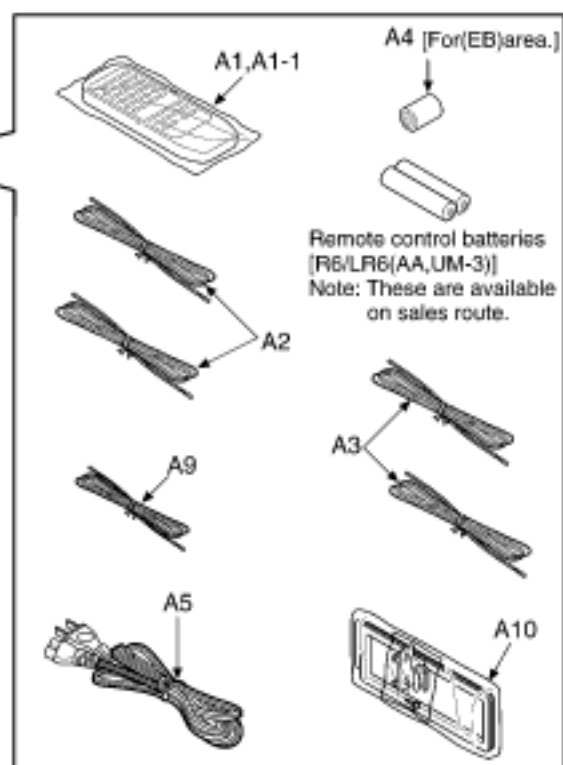
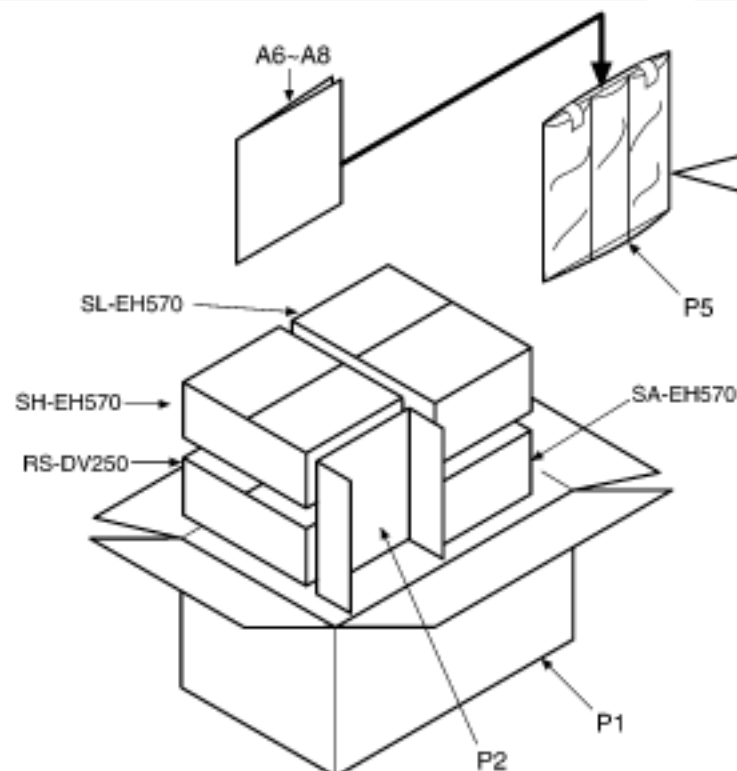
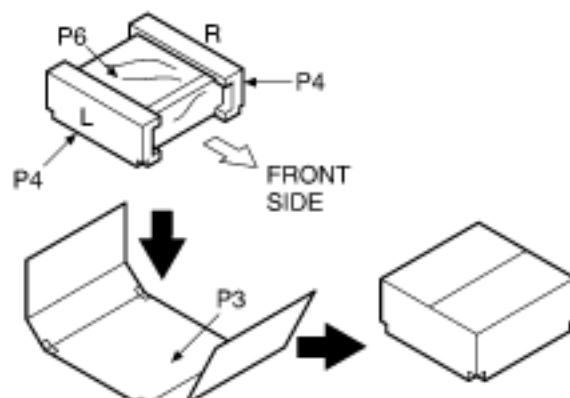
CD Player : SL-EH570

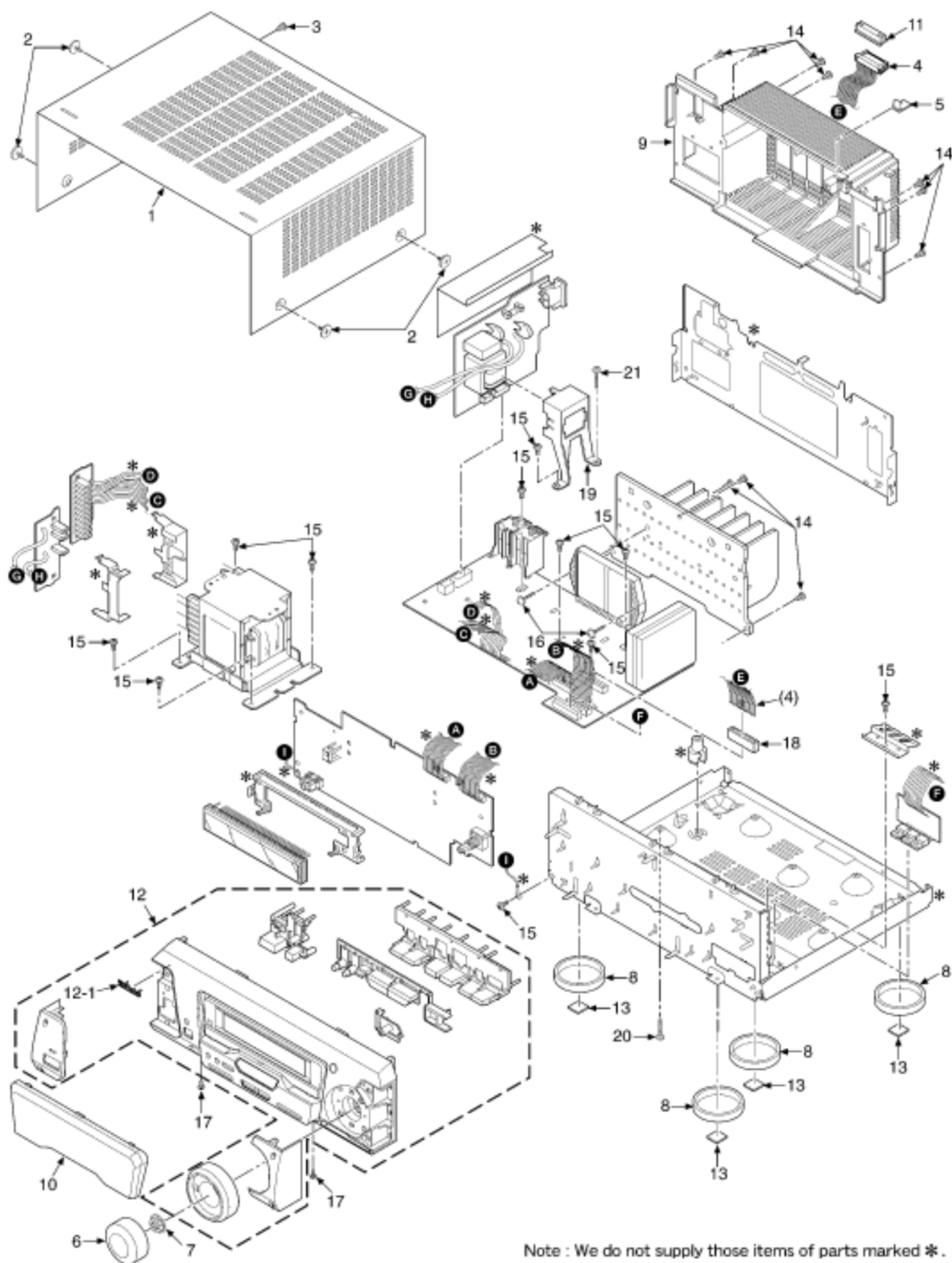


Cassette deck : RS-DV250



Tuner/Amplifier : SA-EH570





Note : We do not supply those items of parts marked *.

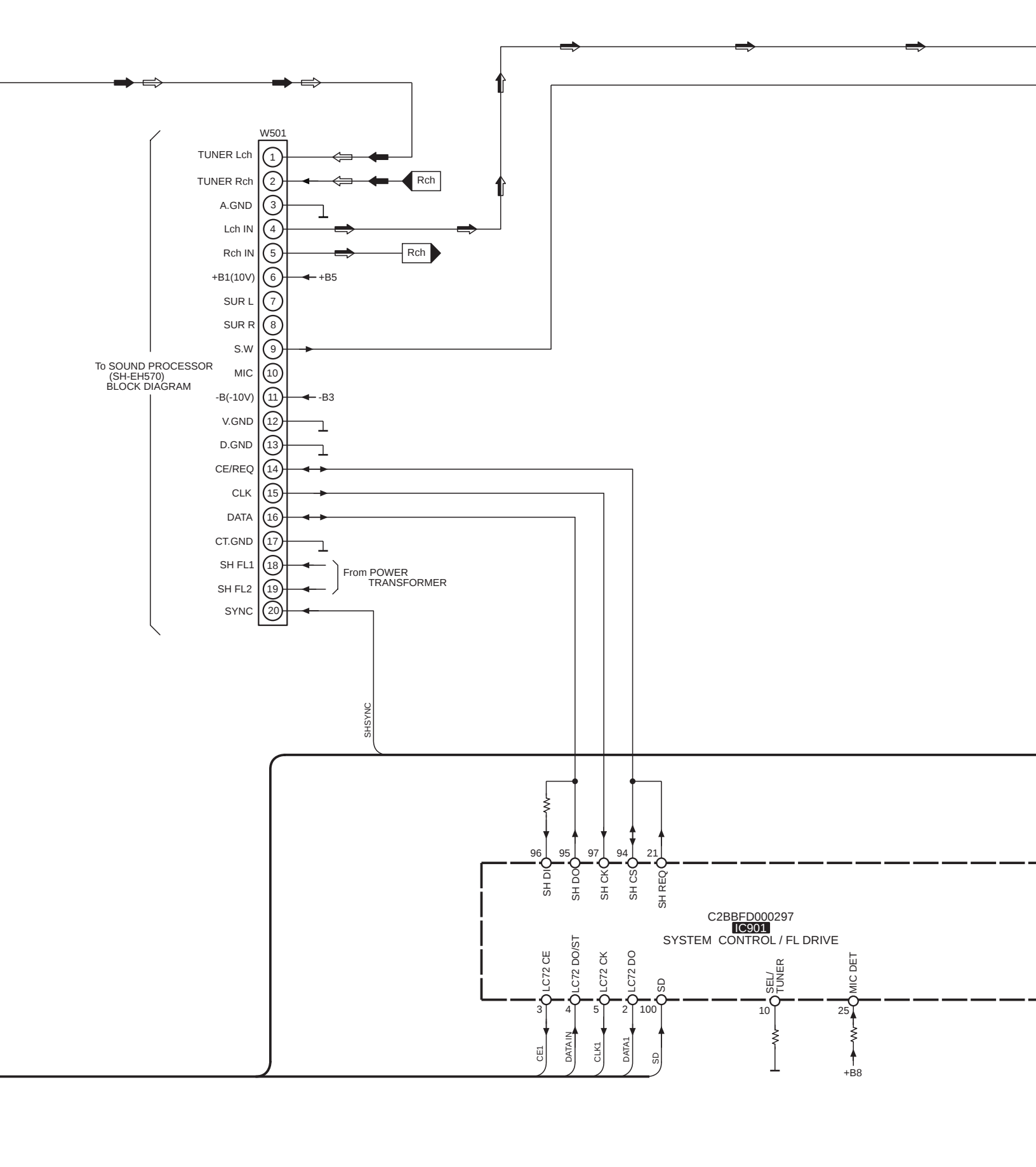
The diagram illustrates a complex radio receiver circuit, specifically a car stereo, centered around the LA1833MN IC. The circuit is divided into several functional blocks:

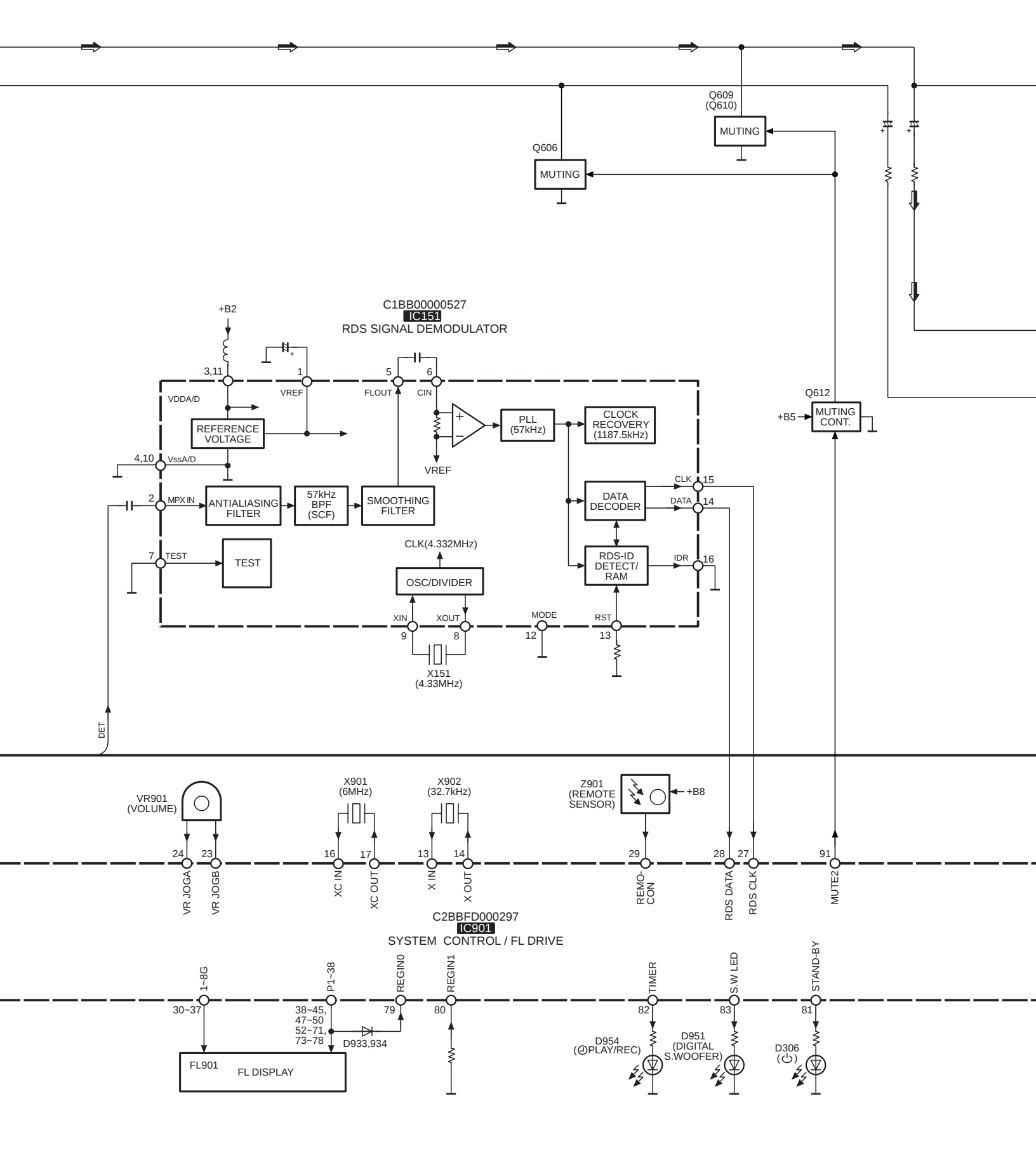
- Input and Front-End:** Includes FM and AM antennas, an RF amplifier, FM mixer, IFT, FM IF amplifier, FM oscillator, and a buffer amplifier. It also features an AM antenna coil, AM oscillator coil, and a +B2 supply.
- LA1833MN IC:** The central integrated circuit, which handles FM/AM IF amplification, detection, AM oscillation, mixing, and FM multiplexing. It includes pins for REG, AFC, AM OSC, AM RF IN, AGC, AM OUT, DET OUT, PILOT IN, MPX IN, PILOT OUT, Lch, and Rch.
- Processing and Control:** Includes an ALC (Automatic Level Control) section, AM OSC, AM MIX, AM RF AMP, AGC (Automatic Gain Control), AM IF, AM DET, COMP (Compressor), and a TUNING DRIVE section. It also features a LEVEL DET, FM IF, FM DET, and an S-CURVE section.
- PLL Frequency Synthesizer (LC72131M):** A separate section for frequency synthesis, including a PHASE DET CHARGE PUMP, REFERENCE DIVIDER, SWALLOW COUNTER (1/6, 1/17, 4BIT), 12 BIT PROGRAMMABLE DIVIDER, and a DATA SHIFT REGISTER LATCH. It has pins for XIN, XOUT, FM IN, AM IN, CE, D, CL, D0, and BO1.
- Output and Control:** Includes a DECODER, PHASE DET, STEREO SWITCH, PILOT CANCEL, and PILOT DET sections. It also features a VCO (Voltage-Controlled Oscillator), FF (Flip-Flop), and a MONO output.
- Power and Grounding:** The circuit is powered by +B1 and +B2 supplies. It includes a Power ON RESET section and a PLL FREQUENCY SYNTHESIZER (LC72131M) section.

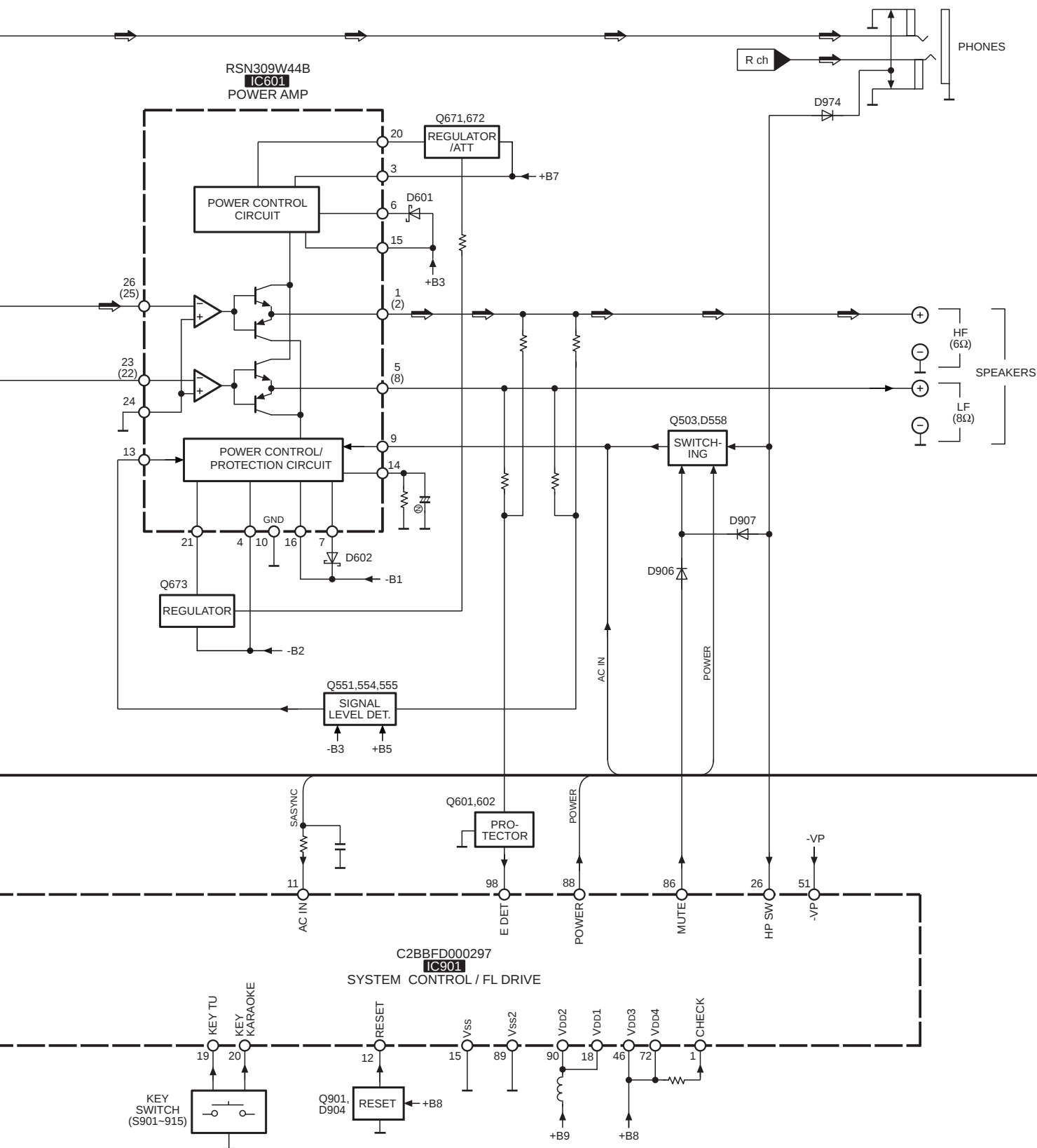
The diagram is a detailed schematic, showing numerous components, including resistors, capacitors, and integrated circuits, with numerous pins and connections labeled. It is a high-level technical drawing intended for electronic engineers or technicians.

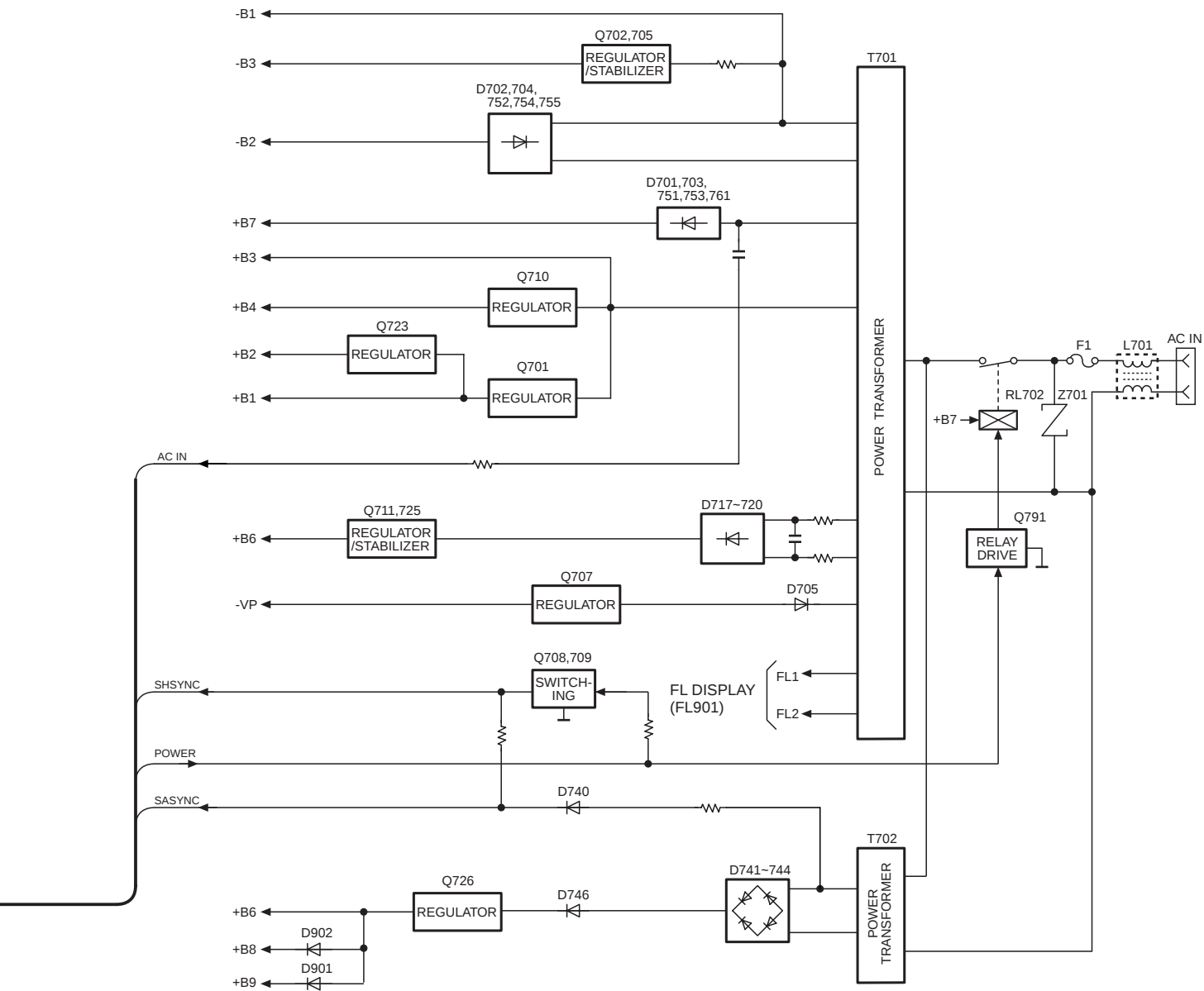
PLL FREQUENCY
SYNTHESIZER
(LC72131M)

FM / AM I F AMP,
DET / AM OSC,
MIX / FM MPX
(LA1833MN)









NOTES :

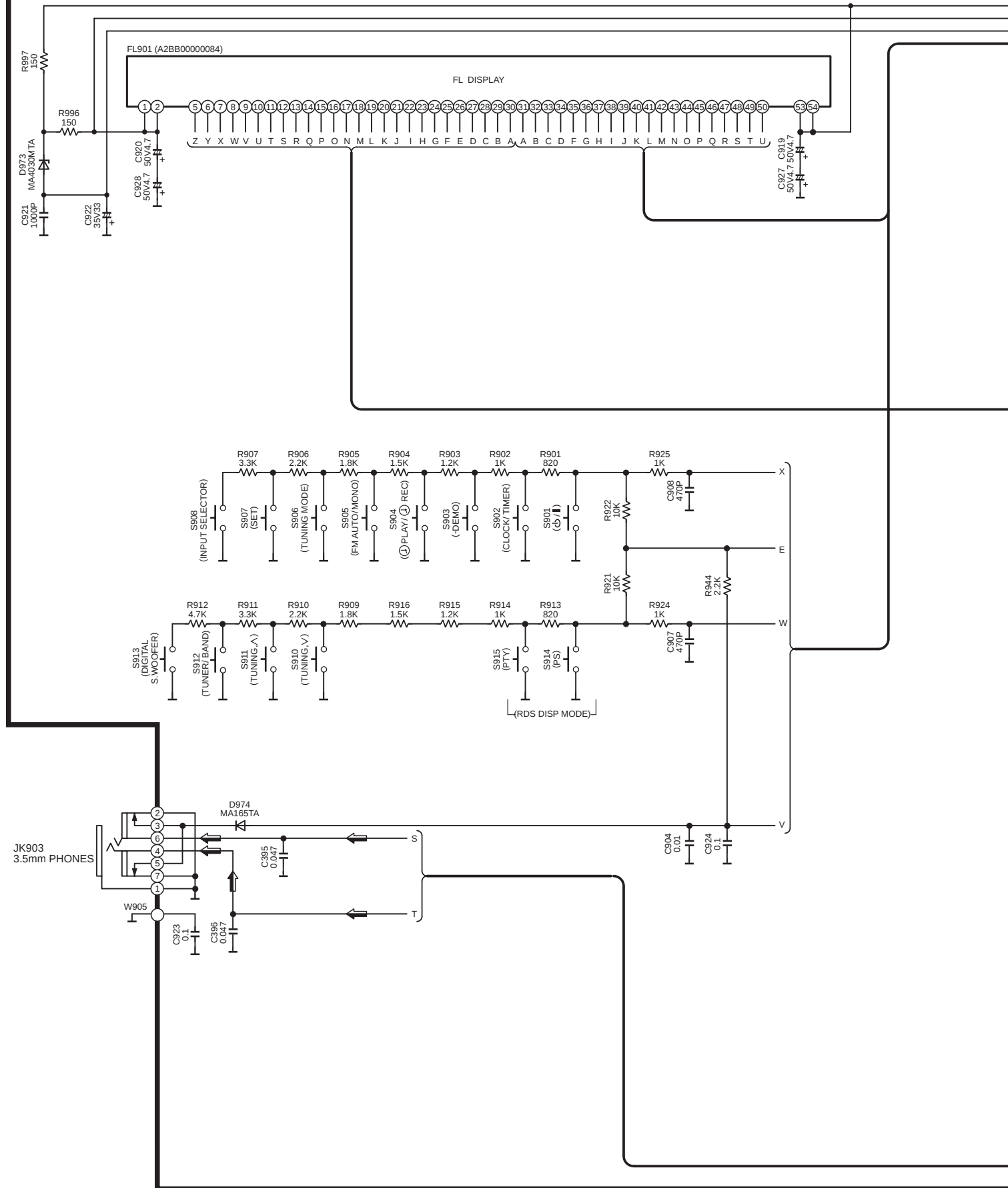
- SIGNAL LINE
- ◁ : FM SIGNAL
- ➡ : AM SIGNAL
- ◁ : FM OSC SIGNAL
- ➡ : AM OSC SIGNAL
- ➡ : AUDIO SIGNAL
- () indicates pin No. Right channel.

SCHEMATIC DIAGRAM-1

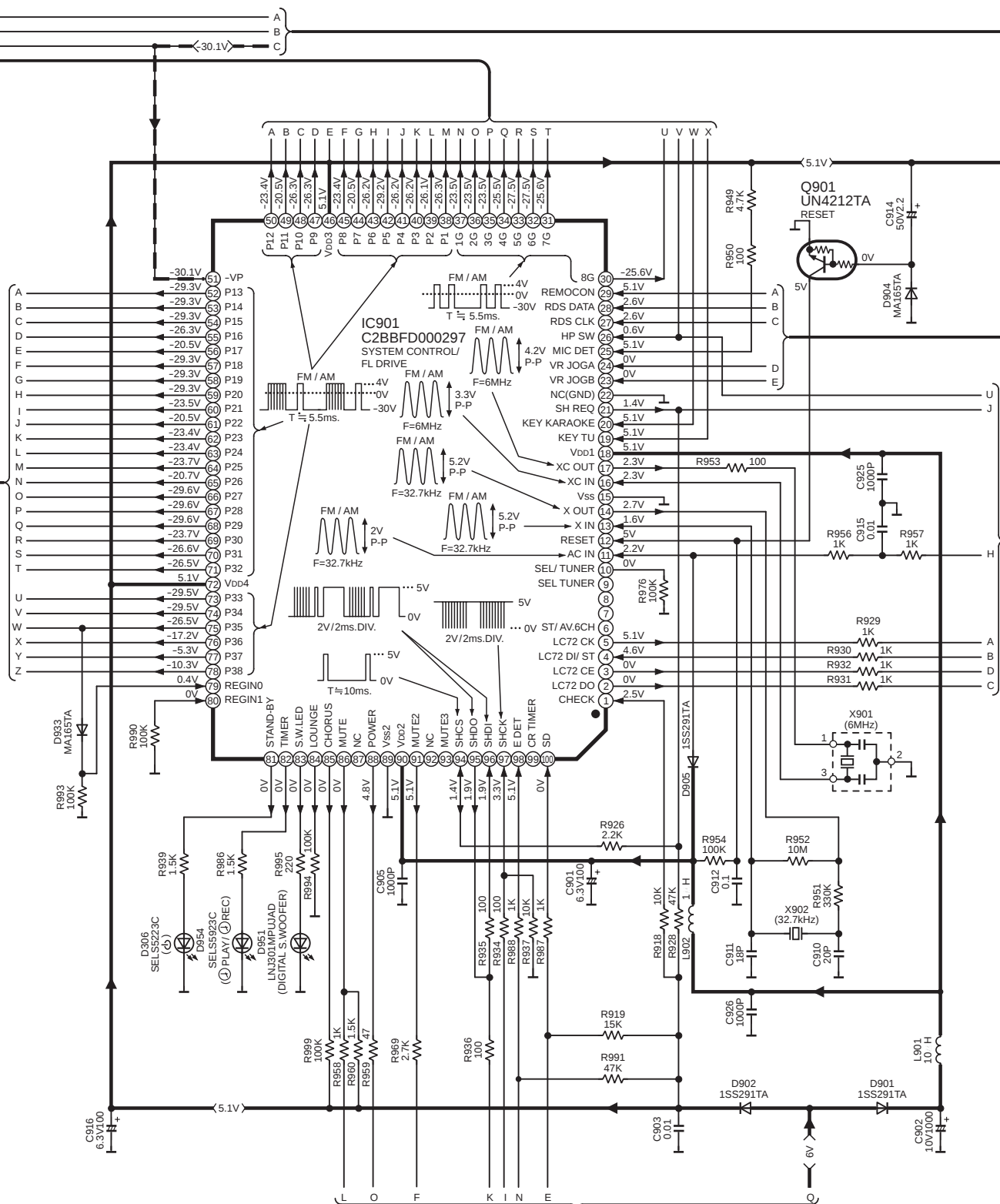
A OPERATION CIRCUIT

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.

⇒ :AUDIO SIGNAL LINE



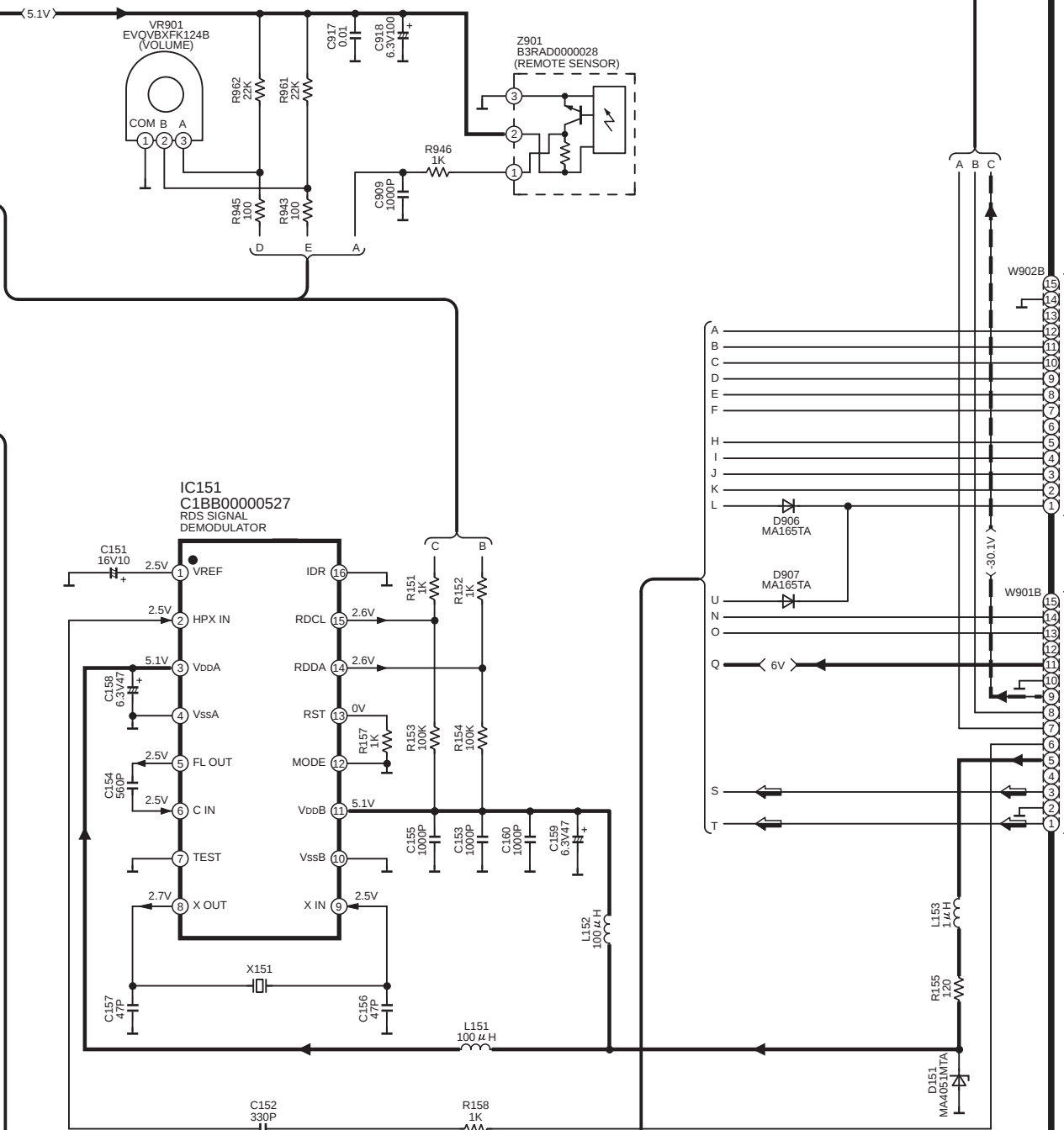
→ : POSITIVE VOLTAGE LINE - → - : NEGATIVE VOLTAGE LINE



SCHEMATIC DIAGRAM-3

A OPERATION CIRCUIT

→ : POSITIVE VOLTAGE LINE → : NEGATIVE VOLTAGE LINE → : AUDIO SIGNAL LINE



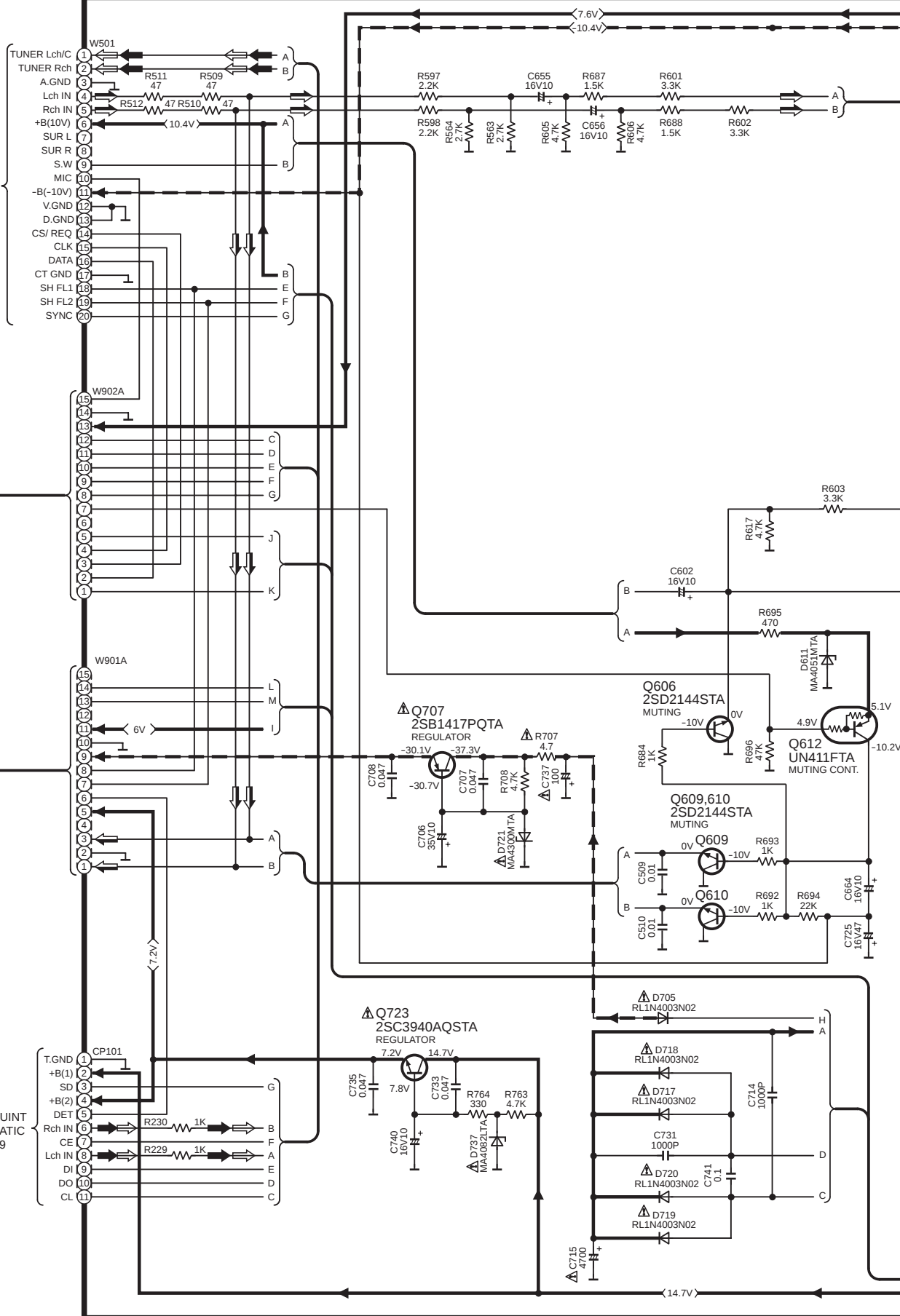
SCHEMATIC DIAGRAM-4

B MAIN CIRCUIT

→ : POSITIVE VOLTAGE LINE
 → : FM SIGNAL LINE
 → : NEGATIVE VOLTAGE LINE
 → : AM SIGNAL LINE
 → : AUDIO SIGNAL LINE

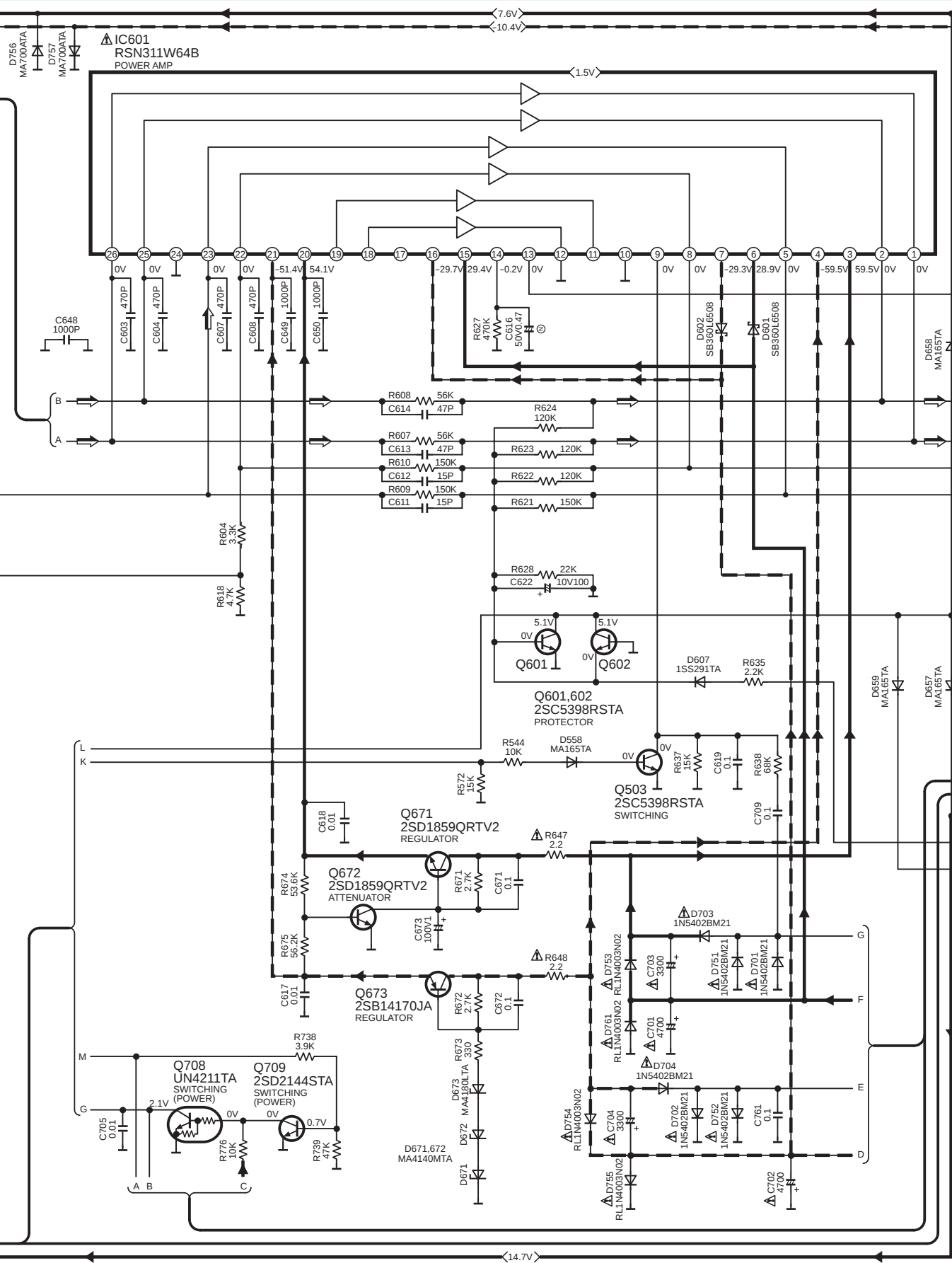
To SOUND PROCESSOR (SH-EH770)

To TUNER UNIT on SCHEMATIC DIAGRAM-9



SCHEMATIC DIAGRAM-5

→ : POSITIVE VOLTAGE LINE
 - - - - - : NEGATIVE VOLTAGE LINE → : AUDIO SIGNAL LINE

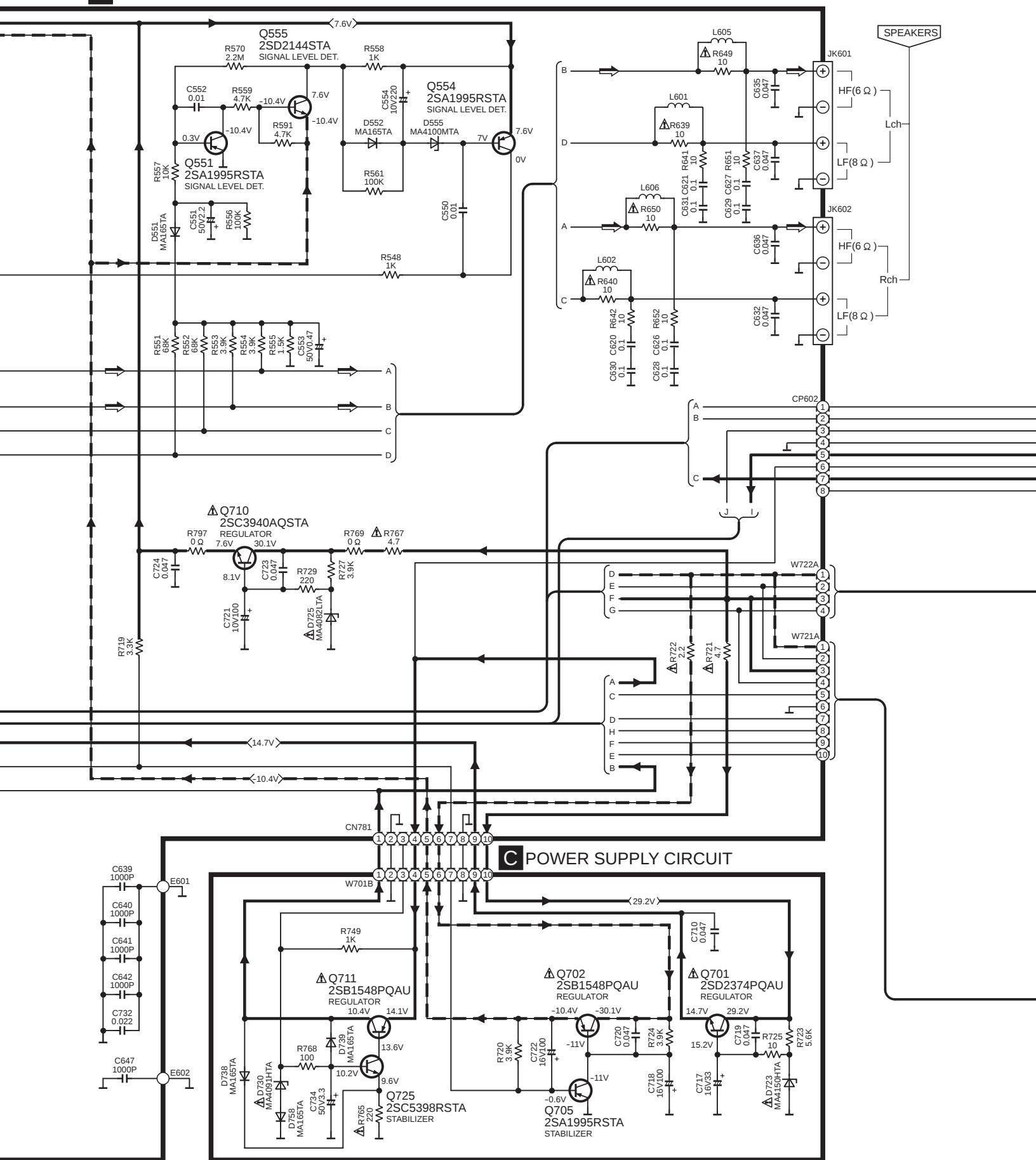


B MAIN CIRCUIT

 : POSITIVE VOLTAGE LINE

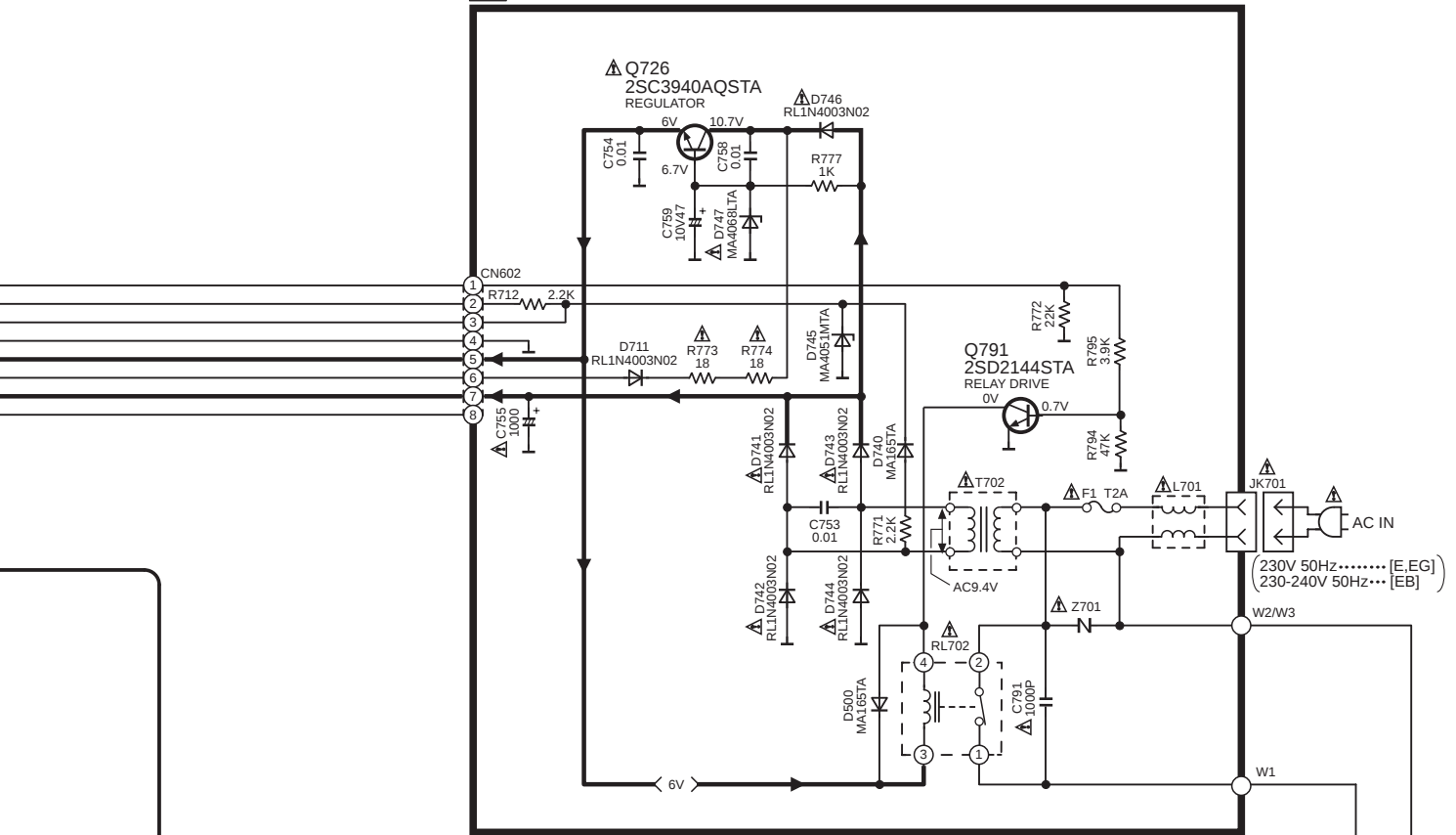
— — — — — : NEGATIVE VOLTAGE LINE

➡ AUDIO SIGNAL LINE

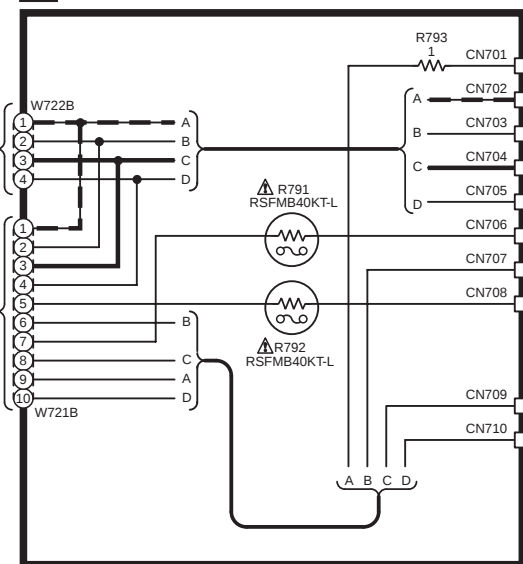


→ : POSITIVE VOLTAGE LINE - - - - -> : NEGATIVE VOLTAGE LINE

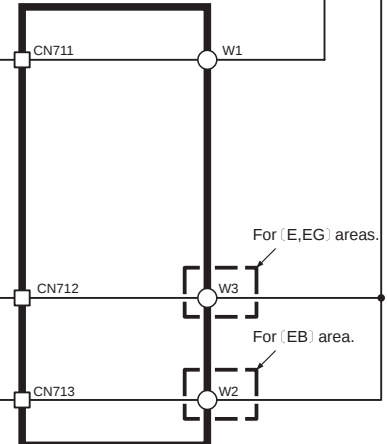
D AC IN CIRCUIT



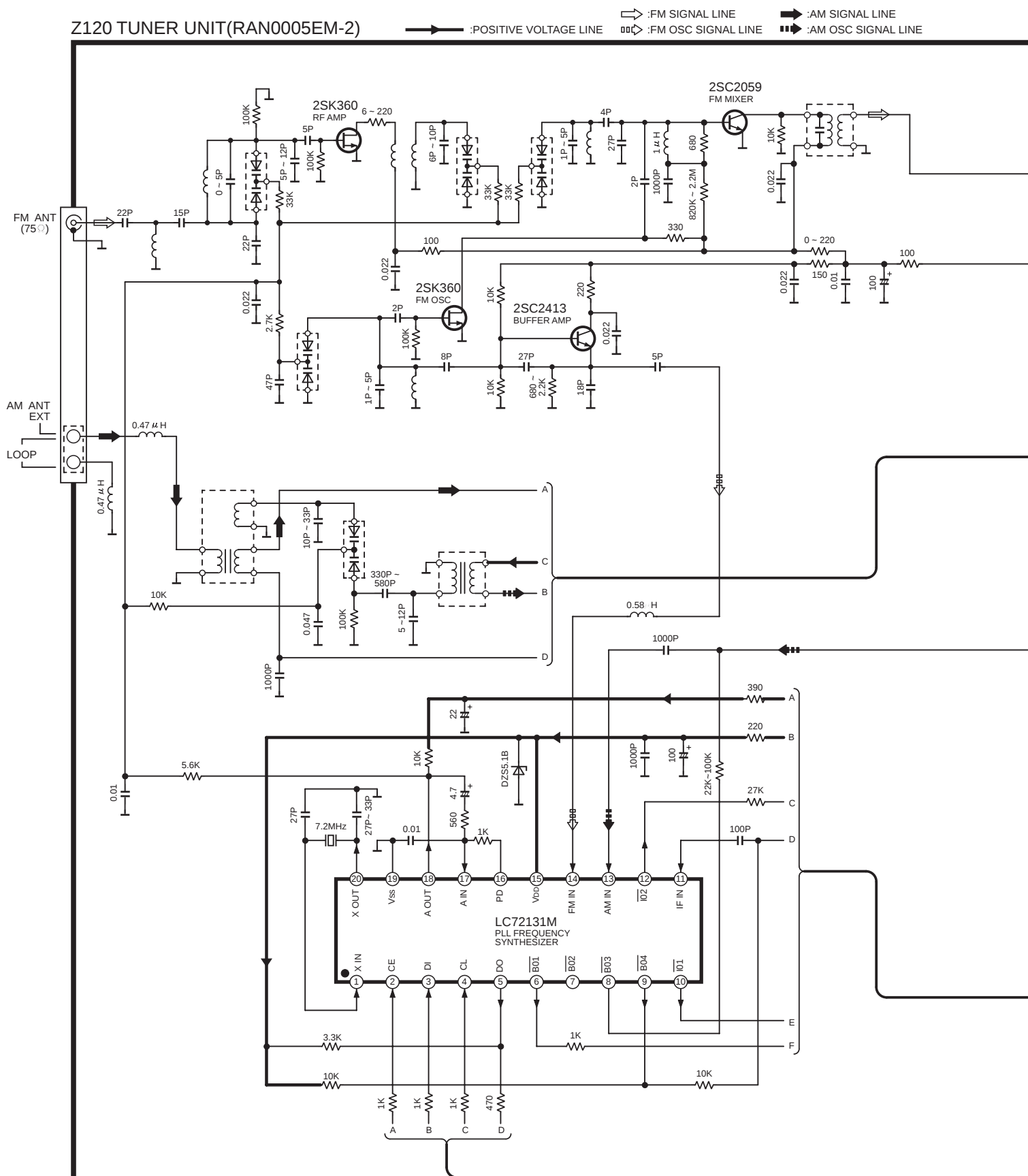
E POWER TRANSFORMER(A) CIRCUIT



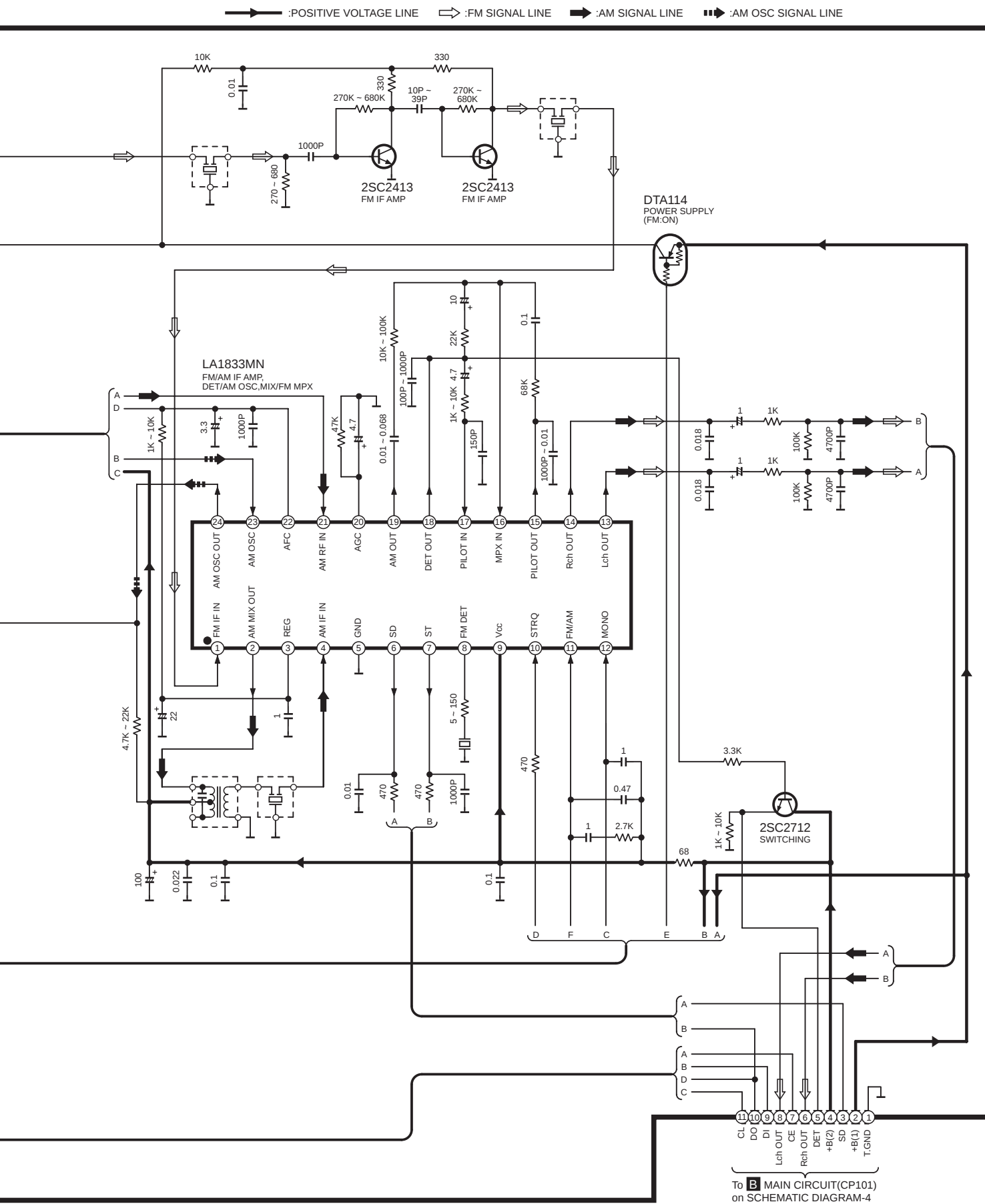
F POWER TRANSFORMER(B) CIRCUIT



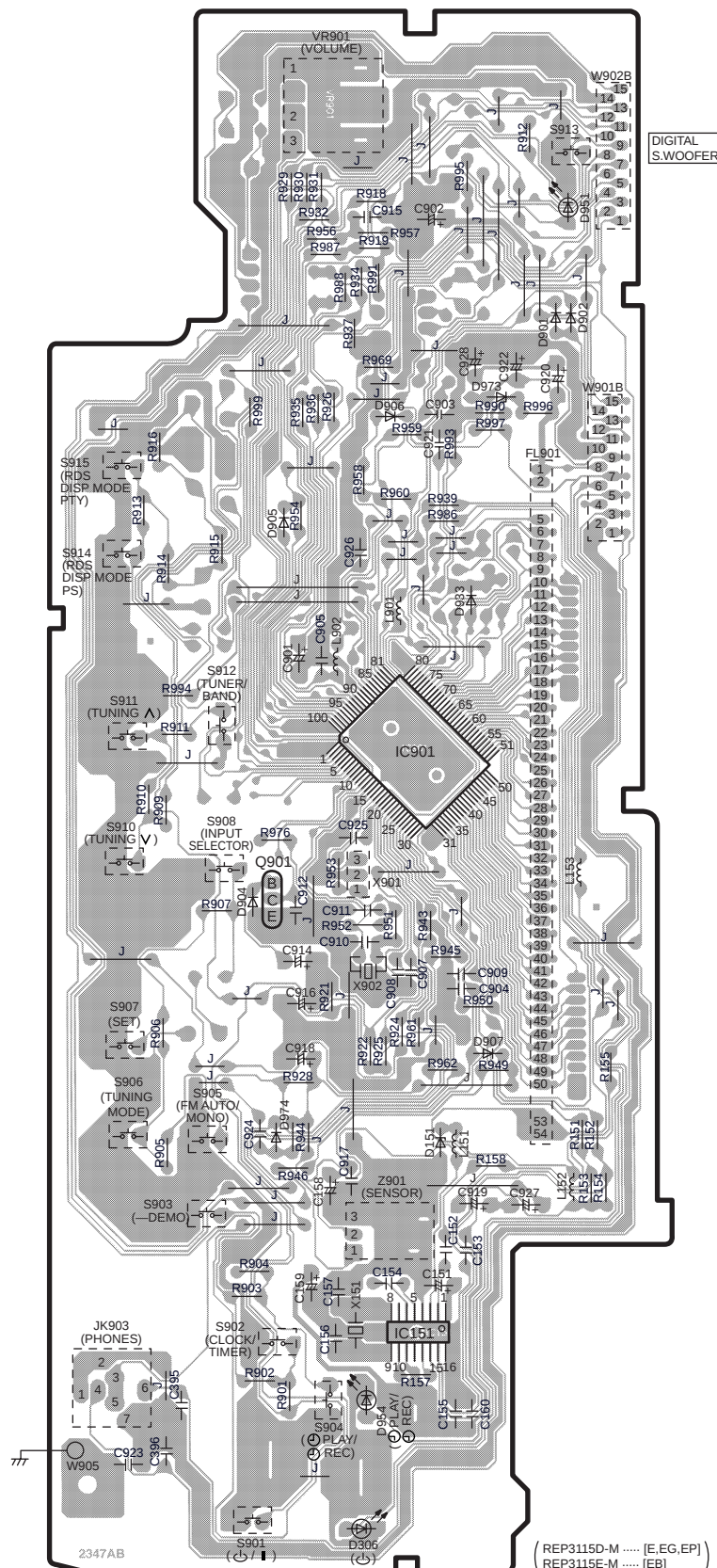
Z120 TUNER UNIT(RAN0005EM-2)



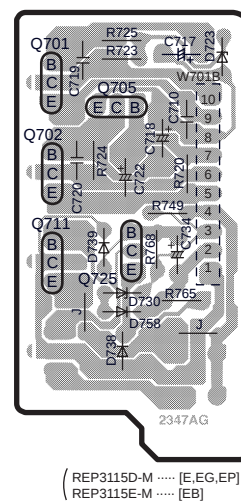
SCHEMATIC DIAGRAM-9



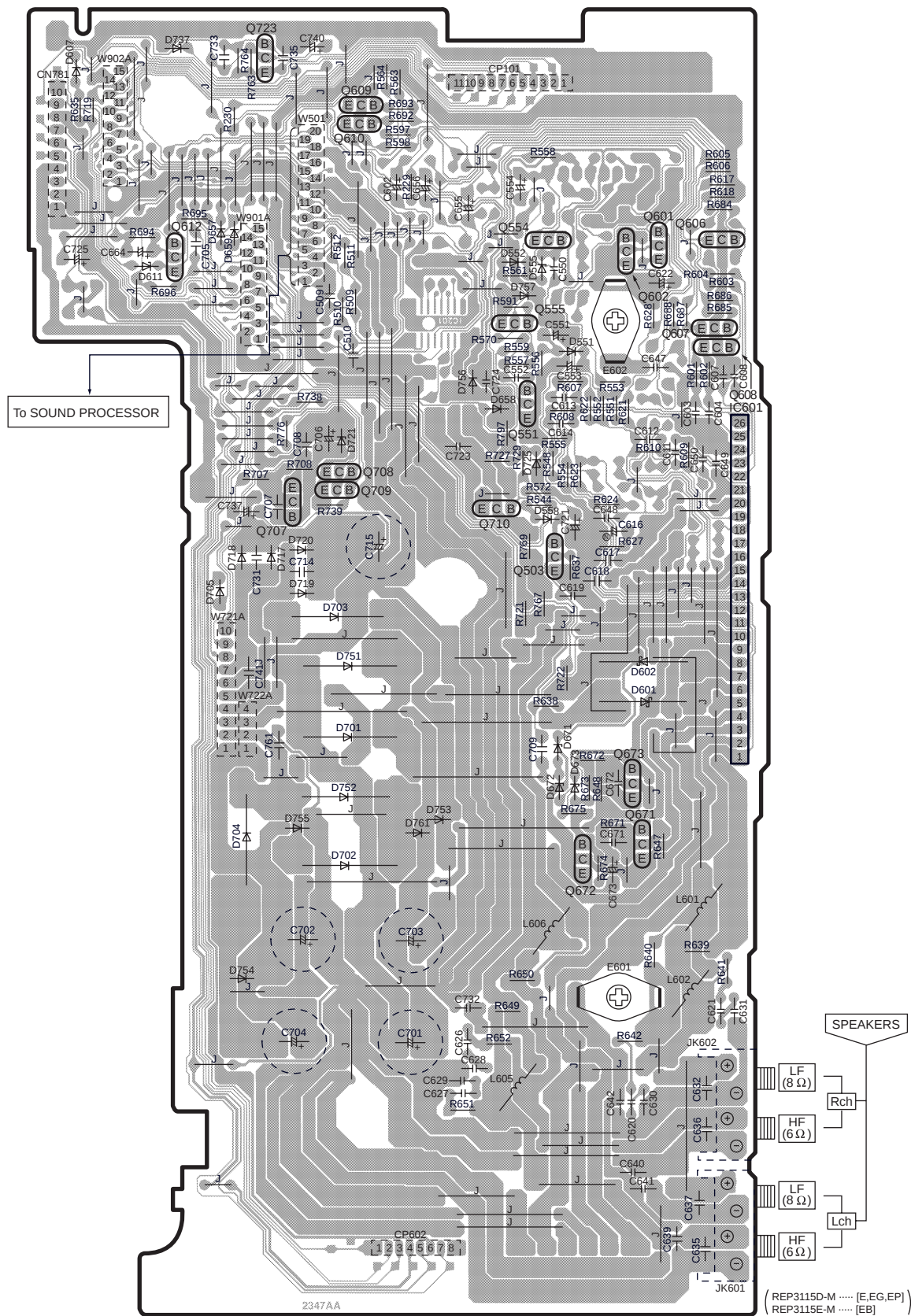
A OPERATION P.C.B.



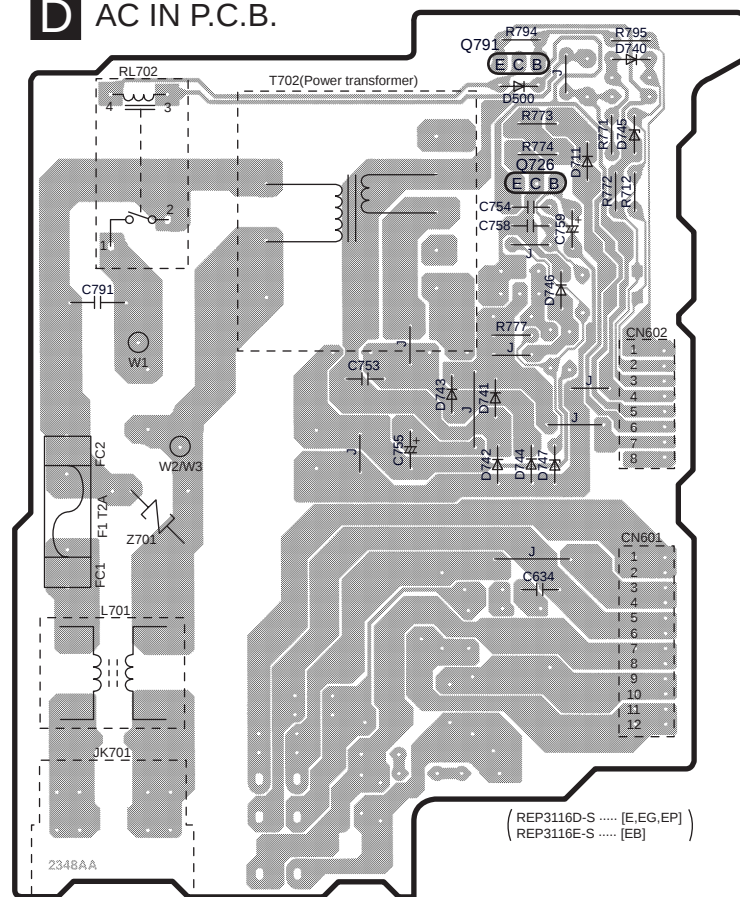
C POWER SUPPLY P.C.B.



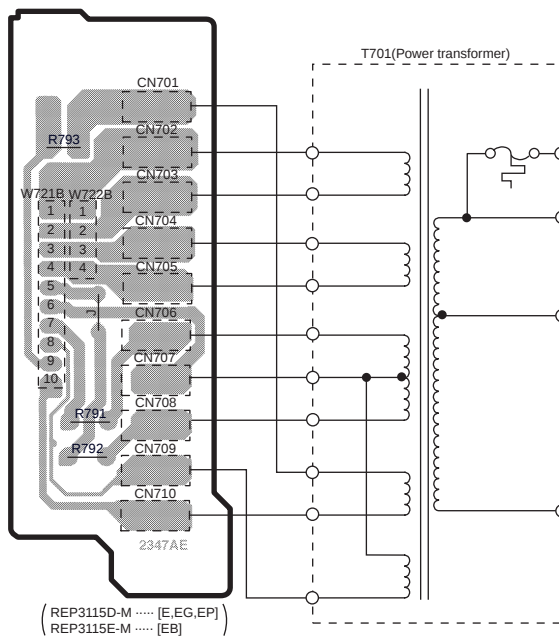
B MAIN P.C.B.


$$\begin{pmatrix} \text{REP3115D-M} \dots [E,EG,EP] \\ \text{REP3115E-M} \dots [EB] \end{pmatrix}$$

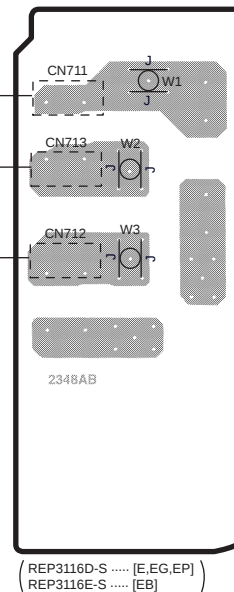
D AC IN P.C.B.

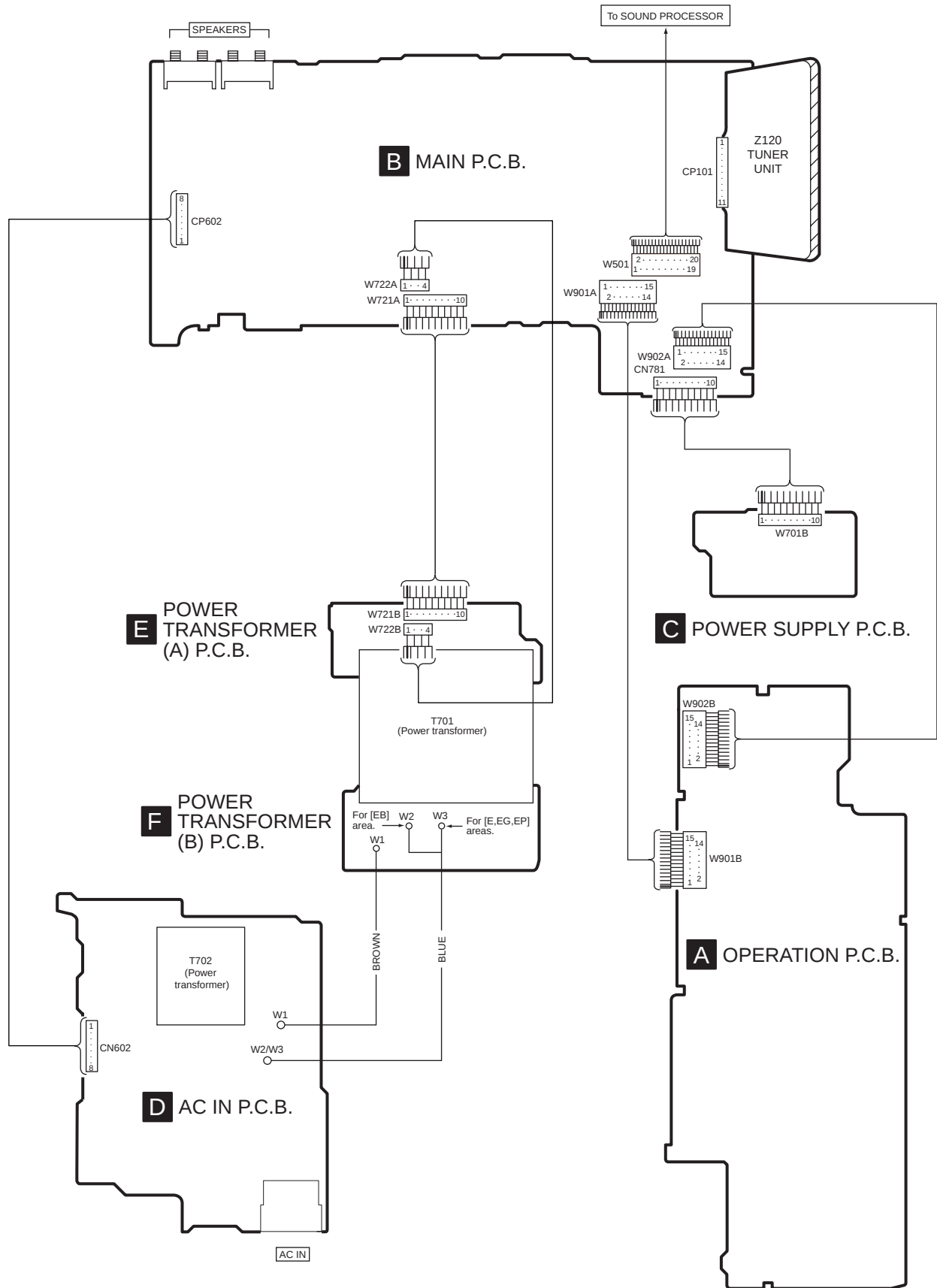


E POWER TRANSFORMER (A) P.C.B.

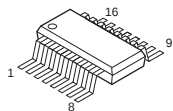


F POWER TRANSFORMER (B) P.C.B.

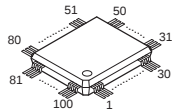




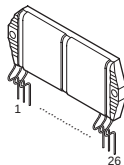
C1BB00000527



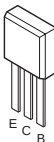
C2BBFD000297



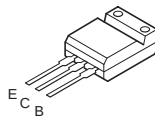
RSN309W44B



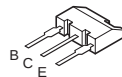
2SC3327A
UN411FTA
UN4211TA
UN4212TA



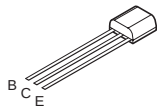
2SB1417PQTA



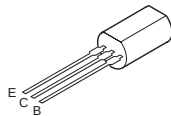
2SD1859QRTV2



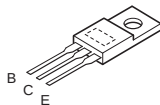
2SA1995RSTA
2SC5398RSTA



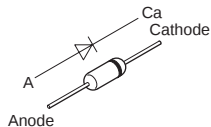
2SC3940AQSTA



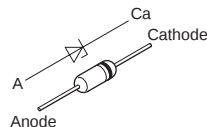
2SB1548PQAU
2SD2374PQAU



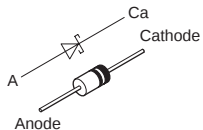
MA165TA



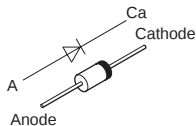
MA4091HTA
MA4100MTA
MA4140M
MA4150MTA
MA4180L
MA4300MTA



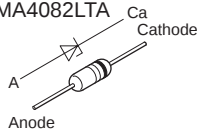
SB360L6508



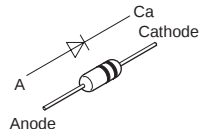
1N5402BF
RL1N4003N02



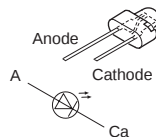
MA4030MTA
MA4051MTA
MA4068LTA
MA4082LTA



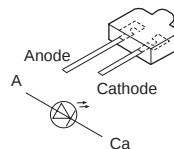
1SS291TA
MA700ATA



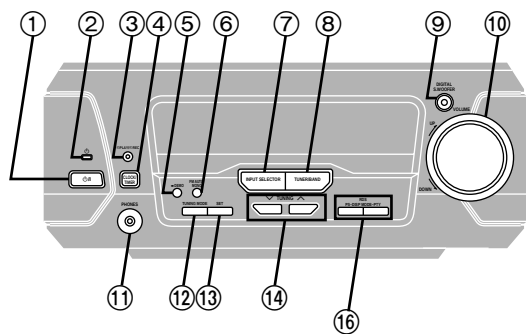
LNJ301MPUJAD



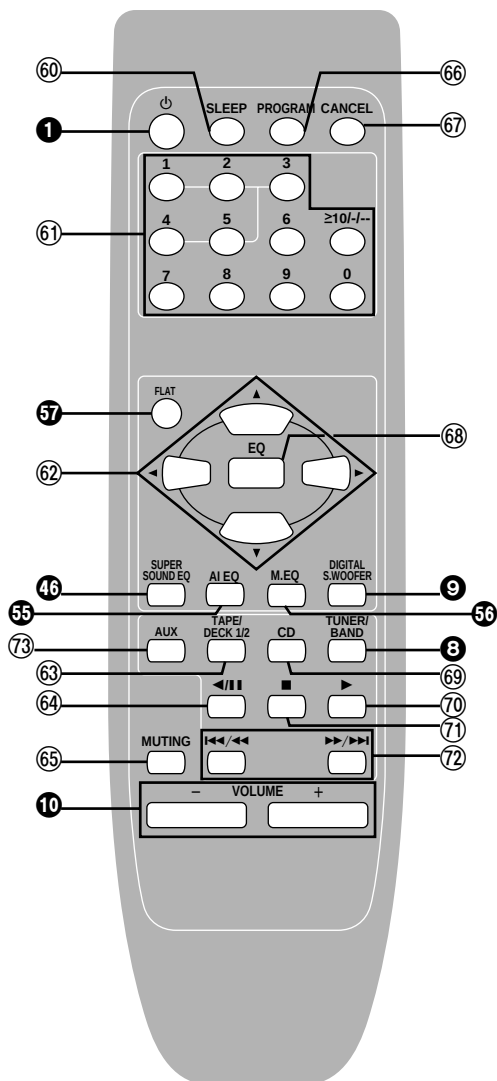
SELS5223C
SELS5923C



A



B



A Tuner/amplifier

- ① **Standby/on switch (⏻/⏻)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ② **Standby indicator (⏻)**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
- ③ **Play timer/record timer button and indicator (⏻/⏻)**
- ④ **Clock/timer button (CLOCK/TIMER)**
- ⑤ **Demo button (DEMO)**
- ⑥ **FM mode button (FM AUTO/MONO)**
- ⑦ **Source input button (INPUT SELECTOR)**
- ⑧ **Tuner/band button (TUNER/BAND)**
- ⑨ **Digital super woofer button and indicator (DIGITAL S.WOOFER)**
- ⑩ **Volume control (VOLUME)**
- ⑪ **Headphone jack (PHONES)**
- ⑫ **Tuning mode button (TUNING MODE)**
- ⑬ **Set button (SET)**
- ⑭ **Tuning buttons (V, ^, TUNING)**
- ⑮ **Except for United Kingdom**
RDS display mode button (RDS, PS-DISP MODE-PTY)

B Remote control

Buttons such as ❶ function in the same way as the controls on the main unit.

- ⑥① **Sleep timer button (SLEEP)**
- ⑥② **Numbered buttons (1-9, 0, ≥10/-/-)**
- ⑥③ **Cursor buttons (◀, ▶, ▲, ▼)**
- ⑥④ **Tape select, deck 1/deck 2 select button (TAPE/DECK 1/2)**
- ⑥⑤ **CD pause/tape reverse playback button (⏮/⏮)**
- ⑥⑥ **Muting button (MUTING)**
- ⑥⑦ **Program button (PROGRAM)**
- ⑥⑧ **Cancel button (CANCEL)**
- ⑥⑨ **EQ button (EQ)**
- ⑦① **CD button (CD)**
- ⑦② **CD play/tape forward playback button (▶)**
- ⑦③ **CD/tape stop button (■)**
- ⑦④ **CD skip/search, tape fast forward/rewind buttons (⏮/⏮, ⏭/⏭)**
- ⑦⑤ **AUX button (AUX)**