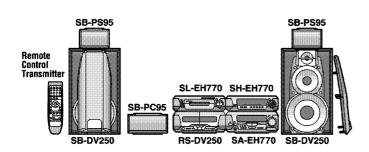
# Service Manual

### **Tuner/Amplifier**



### **SA-EH770**

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-EH770
Sound Processor	SH-EH770
Tuner/Amplifier	SA-EH770
CD Changer	SL-EH770
Cassette Deck	RS-DV250
Front Speakers*	SB-DV250
Center Speaker*	SB-PC95
Surround Speakers*	SB-PS95

<sup>\*:</sup> Made in Spain.

### **Specifications**

CENTER

PMPO 1 kHz;

Power output (L/R both channel driven):

**Amplifier section** 

Sterec	mode;		
DIN	1 kHz, THD 1	l % (High);	$2 \times 25 \text{ W} (6 \Omega)$
	100 Hz, THD	1 % (Low);	$2 \times 45 \text{ W} (8 \Omega)$
RMS	1 kHz, THD 1	10 % (High);	$2 \times 35 \text{ W } (6 \Omega)$
	100 Hz, THD	10 % (Low);	$2 \times 65 \text{ W} (8 \Omega)$
PRO L	.OGIC mode;		
DIN	FRONT	1 kHz, THD 1 % (High);	$2 \times 25 \text{ W } (6 \Omega)$
		100 Hz, THD 1 % (Low);	$2 \times 45 \text{ W} (8 \Omega)$
	SURROUND	1 kHz, THD 1 %;	$2 \times 30 \text{ W} (8 \Omega)$
	CENTER	1 kHz, THD 1 %;	60 W (8 Ω)
RMS	FRONT	1 kHz, THD 10 % (High);	$2 \times 35 \text{ W} (6 \Omega)$
		100 Hz, THD 10 % (Low);	$2 \times 65 \text{ W} (8 \Omega)$
	SURROUND	1 kHz, THD 10%;	$2 \times 40 \text{ W} (8 \Omega)$

1 kHz, THD 10 %;

SURROUND; 8  $\Omega$  CENTER; 8  $\Omega$  DIGITAL S.WOOFER: 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:  $1.8~\mu V$  (IHF usable) S/N 26 dB:  $1.5~\mu V$  S/N (MONO): 70~dB~(75~dB, IHF) Antenna terminal(s):  $75~\Omega$  (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

80 W (8 Ω)

3,000 W

Power supply:
(F) (FG) (FP)

(E), (EG), (EP) areas; AC 230 V, 50 Hz (EB) area; AC 230 – 240 V, 50 Hz Power consumption: 190 W Standby; 0.5 W Dimensions (W×H×D): 293×118.5×343 mm Mass: 5.2 kg

Notes: Specifications are subject to change without notice.

Mass and dimensions are approximate.

Total harmonic distortion is measured by the digital spectrum analyzer.

# **Technics**

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### **⚠ 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 Before Repairs

- 1. Turn off the power supply. Using a 10  $\Omega$ , 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 respect to supply voltage 230/240 V.

Power supply voltage	AC 230 V	AC 240 V
Consumed current 50 Hz	100 ~ 3	350 mA

### 2 Protection Circuitry

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.

### 3 Accessories

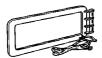
· AC power supply cord for (E), (EG), (EP) areas (RJA0019-1X)......1 pc.



· 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.





• Remote control transmitter (EUR7702050)......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.



### 4 Caution for AC Mains Lead

# (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

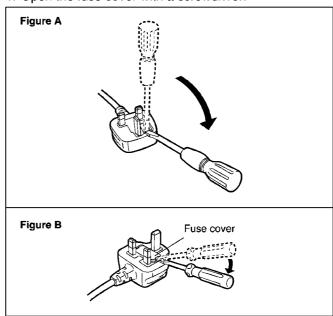
Remove the connector cover.

### How to replace the fuse

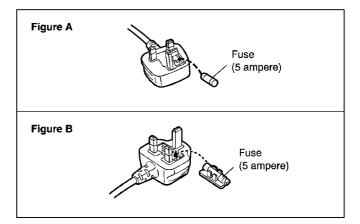
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

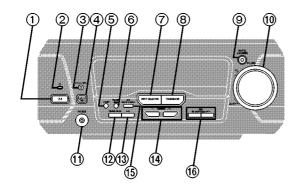


2. Replace the fuse and close or attach the fuse cover.

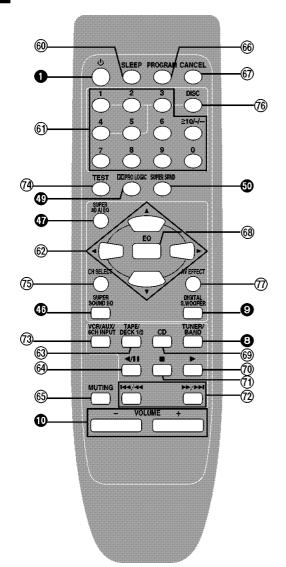


### 5 Location of Controls

Α



В



### A Tuner/amplifier

① Standby/on switch (也/I)

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 (也)

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 (@PLAY/@REC)
- ④ Clock/timer button (CLOCK/TIMER)
- ⑤ Demo button (- DEMO)
- 6 FM mode button (FM AUTO/MONO)
- Source input button (INPUT SELECTOR)
- ® Tuner/band button (TUNER/BAND)
- Digital super woofer button and indicator (DIGITAL S.WOOFER)
- Volume control (VOLUME)
- (1) Headphone jack (PHONES)
- 1 Tuning mode button (TUNING MODE)
- (3) Set button (SET)
- f 4 Tuning buttons (  $\lor$  ,  $\land$  TUNING)
- (5) 6ch discrete input button (6CH DISCRETE INPUT)
- ® RDS display mode button (RDS, PS-DISP MODE-PTY)

### B Remote control

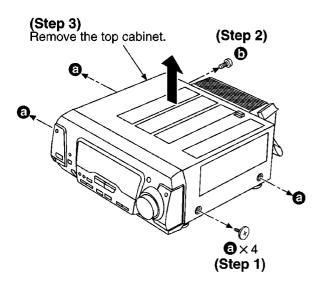
Buttons such as 1 function in the same way as the controls on the main unit.

- 60 Sleep timer button (SLEEP)
- ⑥ Numbered buttons (1-9, 0, ≥10/-/--)
- Cursor buttons (◀, ▶, ▲, ▼)
- (ii) Tape select, deck 1/deck 2 select button (TAPE/DECK 1/2)
- 65 Muting button (MUTING)
- 66 Program button (PROGRAM)
- (CANCEL)
- ® EQ button (EQ)
- (CD) button (CD)
- ⑦ CD play/tape forward playback button (►)
- ⑦ CD/tape stop button (■)
- ② CD skip/search, tape fast forward/rewind buttons
  (I◄◄/◄◄,►►/►►I)
- Input select button (VCR/AUX/6CH INPUT)
- Test button (TEST)
- Channel select button (CH SELECT)
- ® Disc button (DISC)
- AV effect button (AV EFFECT)

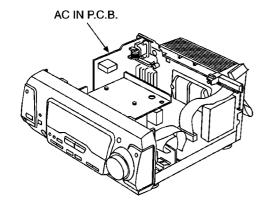
# 6 Operation Checks and Component Replacement Procedures

- 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.

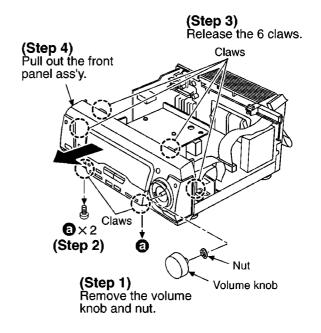


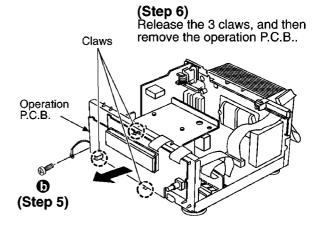
· Check the AC IN P.C.B. as shown below.



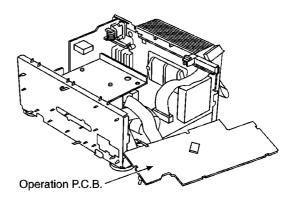
# 6.2. Checking for the operation P.C.B.

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



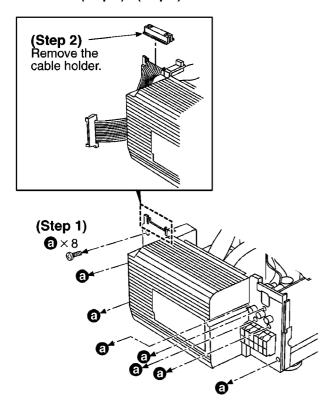


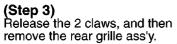
· Check the operation P.C.B. as shown below.

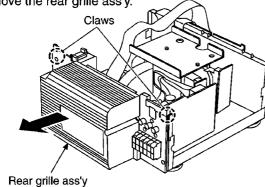


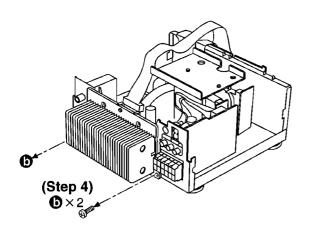
# 6.3. Checking for the main P.C.B.

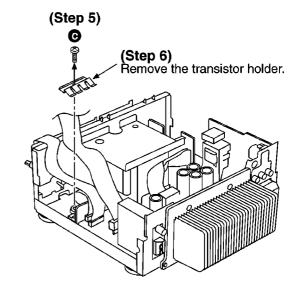
- · Follow the (Step 1) (Step 3) of item 6.1.
- · Follow the (Step 1) (Step 6) of item 6.2.

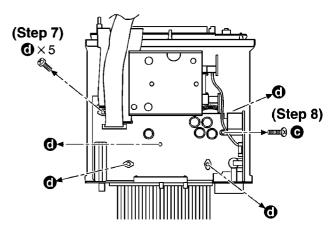


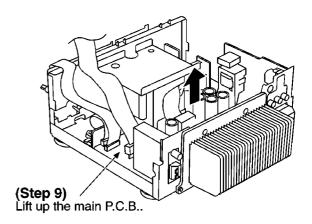




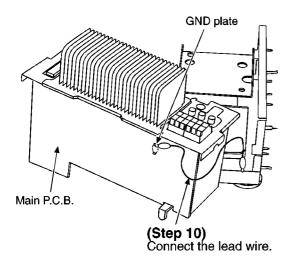






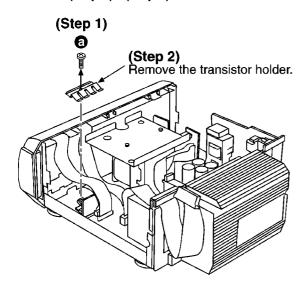


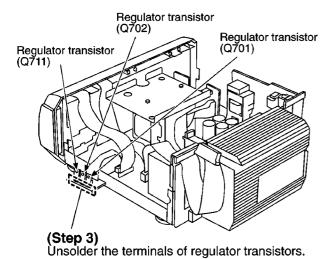
· Check the main P.C.B. as shown below.



# 6.4. Replacement for the regulator transistor

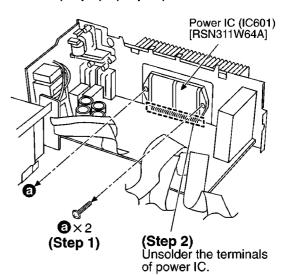
· Follow the (Step 1) - (Step 3) of item 6.1.





### 6.5. Replacement for the power IC

- · 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.



### NOTE:

When mounting the power IC apply silicone conpound (RFKX0002) to the rear side of power IC.

# 7 To Supply Power Source

This unit SA-EH770 is designed to operate on power supplied form system connected. For system connection, refer to Fig. 7-1.

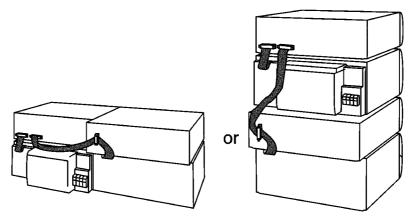


Fig. 7-1.

When the unit SA-EH770 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.

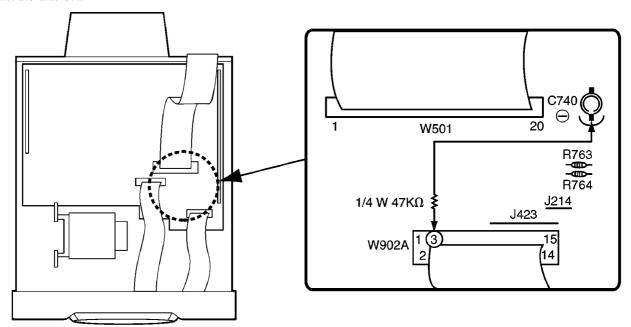


Fig. 7-2.

### Notes:

Use only this method when checking the voltage etc..

In case of checking the operations, use the system connections to supply power source.

### 8 Self-Diagnostic Function

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

U70 CD: U70 DECK: Automatically displays on the tuner/amplifier when a malfunction

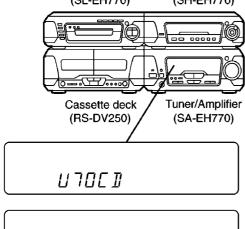
occurs. Refer to Fig. 8-1.

**F61:** Automatically displays on the tuner/amplifier when a malfunction

occurs. Refer to Fig. 8-1.

CD Changer (SL-EH770)

Sound processor (SH-EH770)



UJOJECK

Fig. 8-1.

# 8.2. To return to the normal display

#### 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.

### 8.3. Display contents

# 8.3.1. U70 CD, U70 DECK (displayed automatically)

#### · 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 Changer 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.

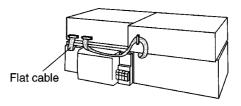


Fig. 8-2.



Fig. 8-3.

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

#### SA-EH770:

IC901 (C2BBFD000297)

SL-EH770:

IC451 (C2BBFD000256)

RS-DV250:

IC701 (M38503M2406F)

Check these ICs and replace.

#### 8.3.2. F61

### · 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-EH770) output IC (IC601). (When a DC voltage is applied to speaker terminals.)

# 9 Schematic Diagram Notes

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

Notes:

S901: Power standby/on switch ( U /l)
S902: Clock/timer switch (CLOCK/TIMER)

S903: Demo switch ( ■ DEMO)
S904: Play timer/record timer switch

( ② PLAY/ ② REC)

S905: FM mode switch

(FM AUTO/MONO)

S906: Tuning mode switch

(TUNING MODE)

S907: Set switch (SET)
S908: Source input switch

(INPUT SELECTOR)

**S909:** 6 ch discrete input switch

(6 CH DISCRETE INIPUT)

**S910:** Tuning down switch (TUNING, V) **S911:** Tuning up switch (TUNING,  $\Lambda$ ) **S912:** Tuner/band switch (TUNER/BAND)

S913: Digital super woofer switch

(DIGITAL S.WOOFER)

S914: RDS display mode PS switch

(RDS DISP MODE-PS)

**S915:** RDS display mode PTY switch

(RDS DISP MODE-PTY)

VR901: Volume control VR (VOLUME)

 Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (highimpedance) 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  $\triangle$  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fireretardant (resistors), high-quality sound (capacitors), lownoise (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

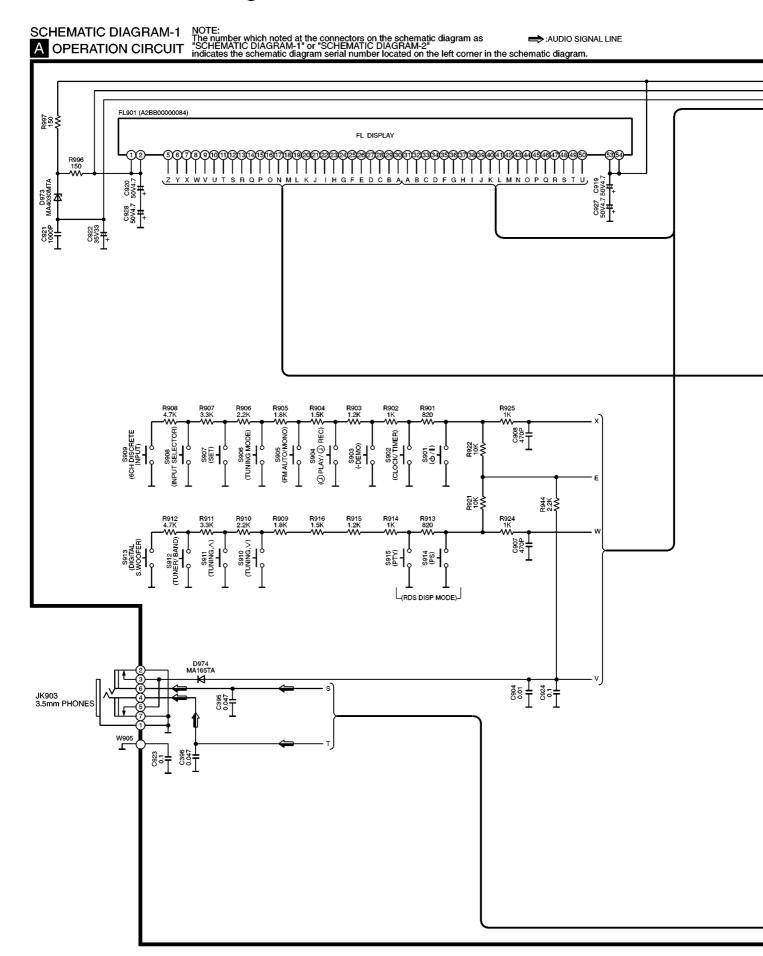
: Positive voltage line
: Negative voltage line



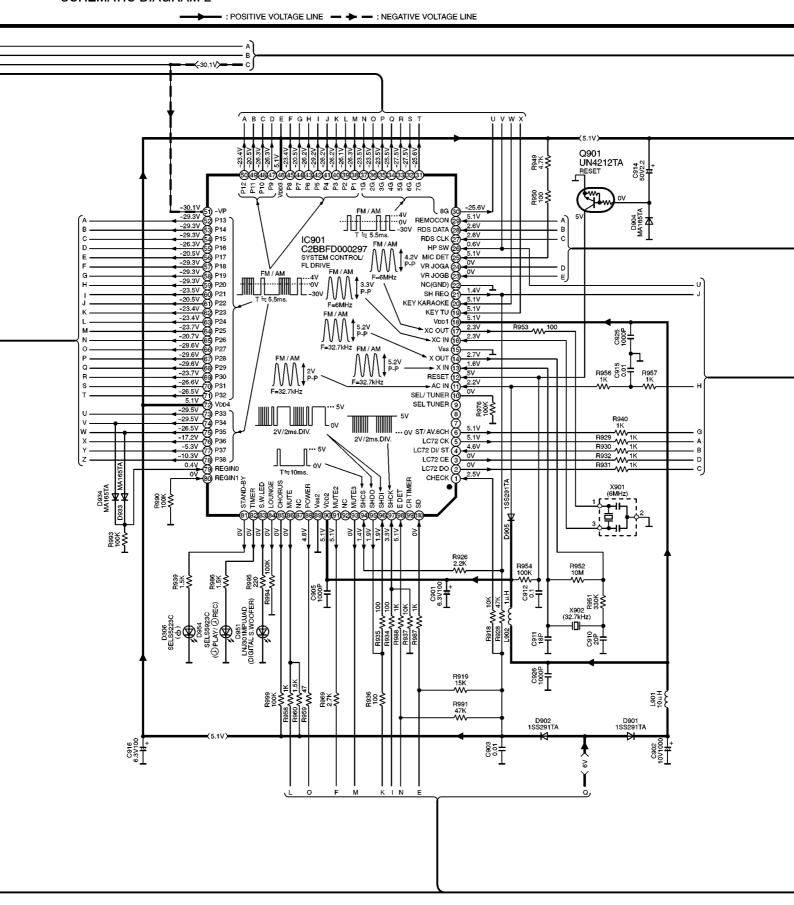
: AM signal line : AM OSC signal line : FM signal line

: FM OSC signal line : Audio signal line

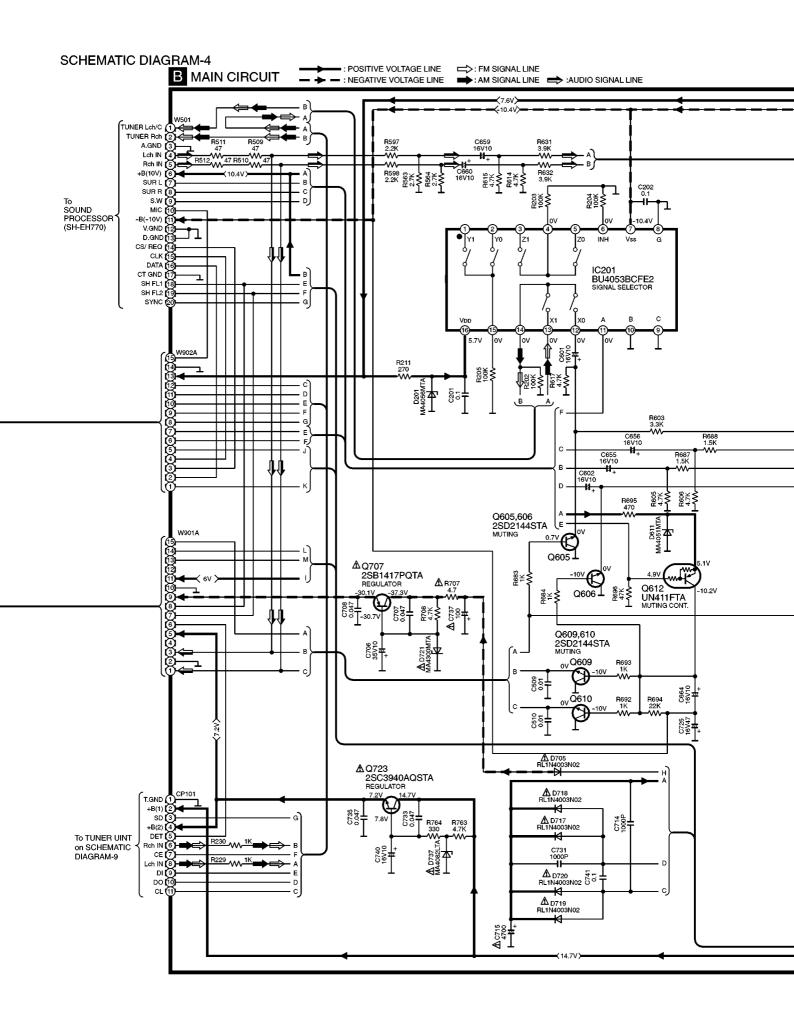
# 10 Schematic Diagram

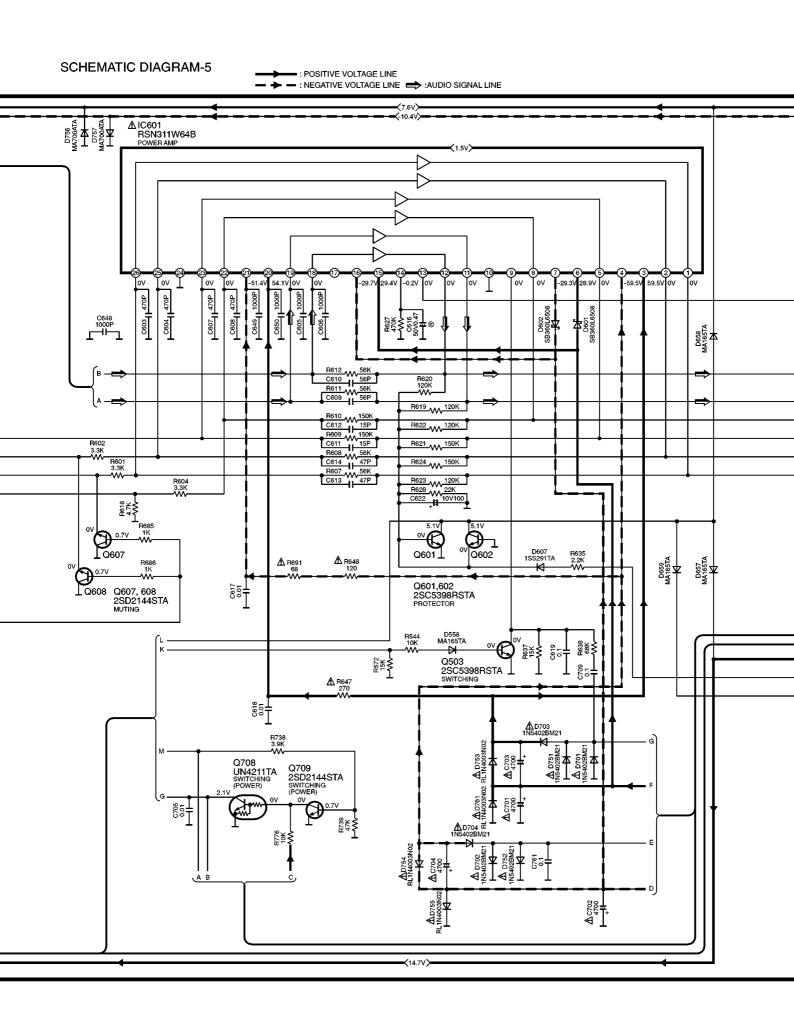


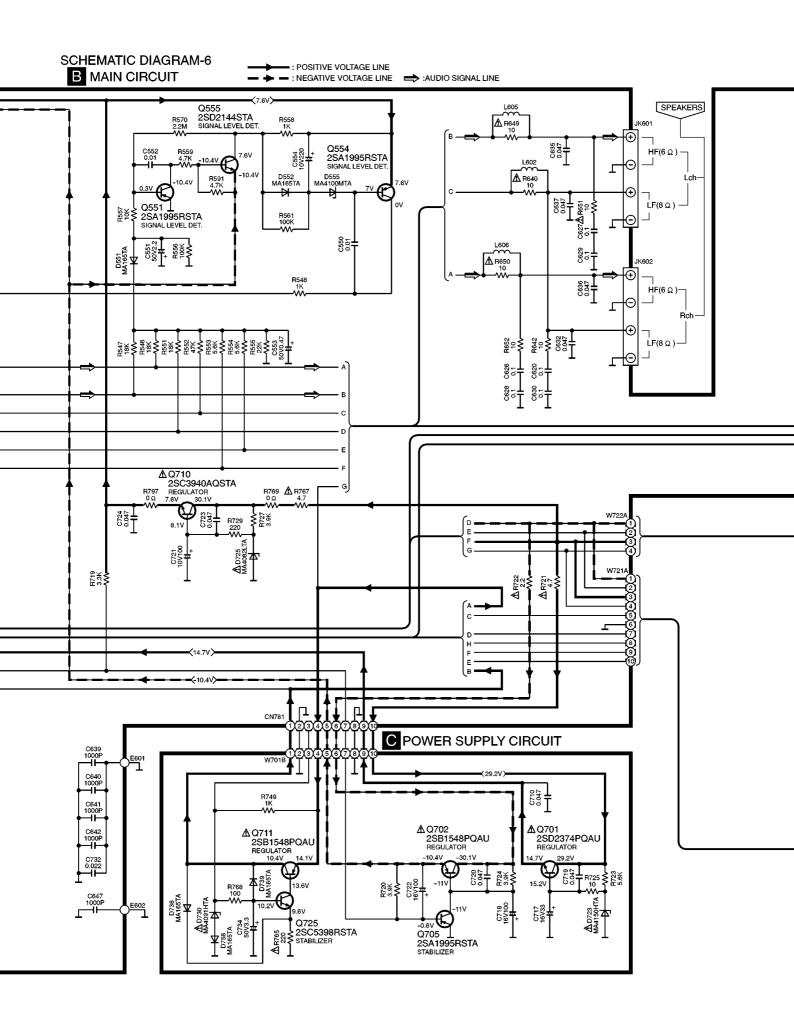
#### **SCHEMATIC DIAGRAM-2**

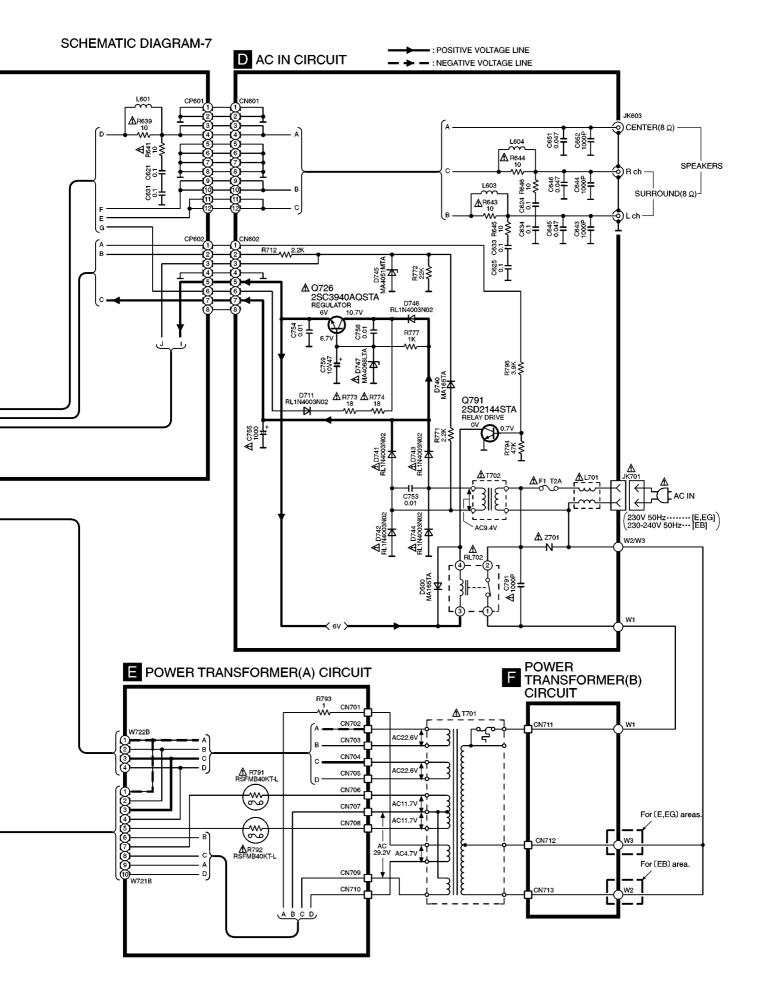


# **SCHEMATIC DIAGRAM-3** A OPERATION CIRCUIT : POSITIVE VOLTAGE LINE - : NEGATIVE VOLTAGE LINE : AUDIO SIGNAL LINE C917 0.01 C918 6.3V100 Q902 UN411FTA MUTING CONT. R974 845 105 1 %5 ₹5 1 IC151 C1BB00000527 RDS SIGNAL DEMODULATOR D906 MA165TA D907 MA165TA 2.5V 2 HPX IN RDCL (1 RDDA A MODE 5) FLOUT VDDB (1 \$±<u>₹</u> X151 \$122 \$125 C156 25.4 T R158 1K

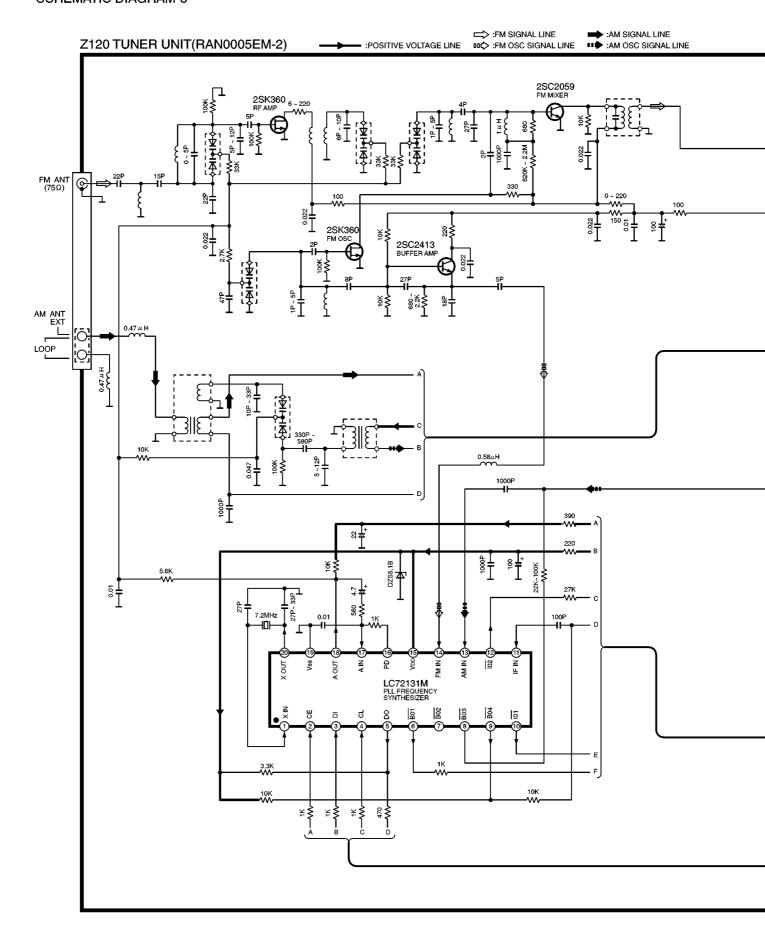




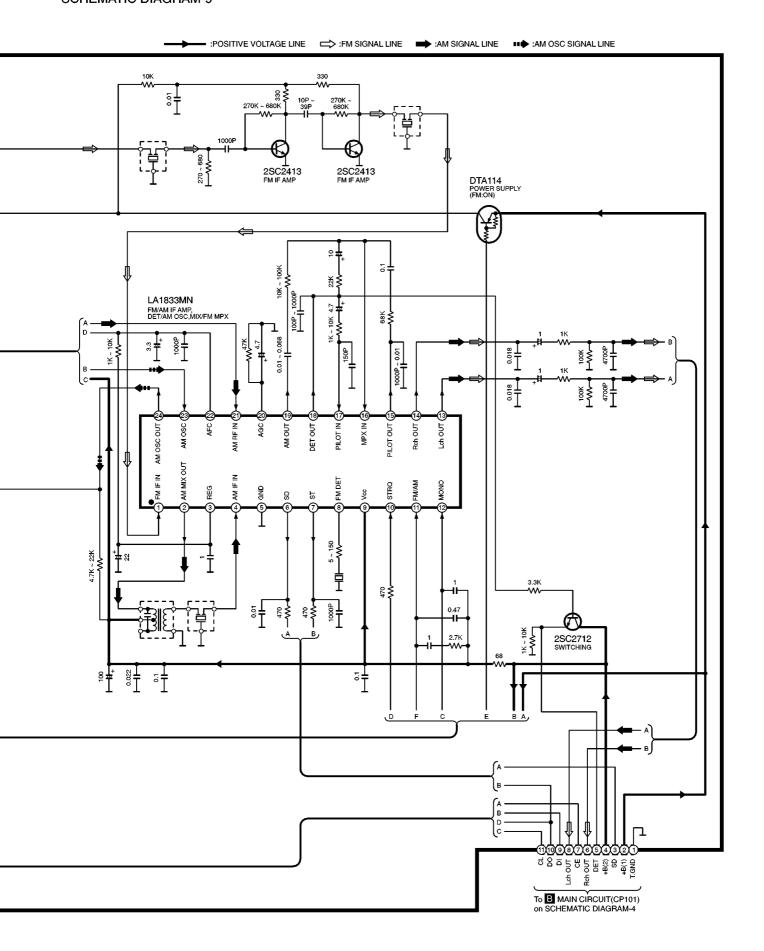




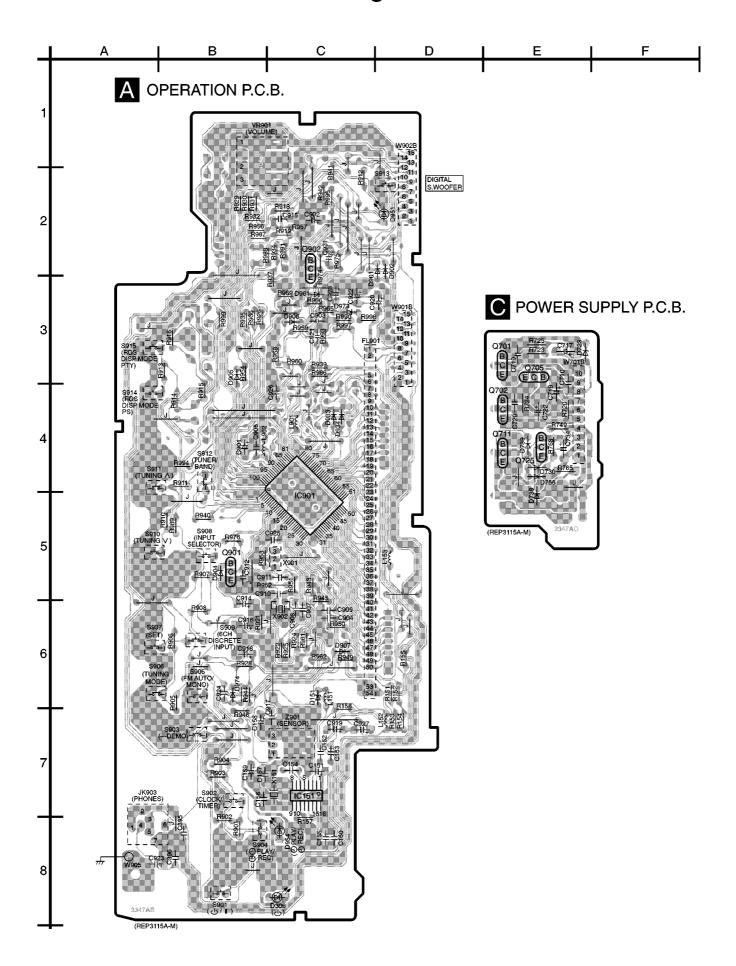
### **SCHEMATIC DIAGRAM-8**

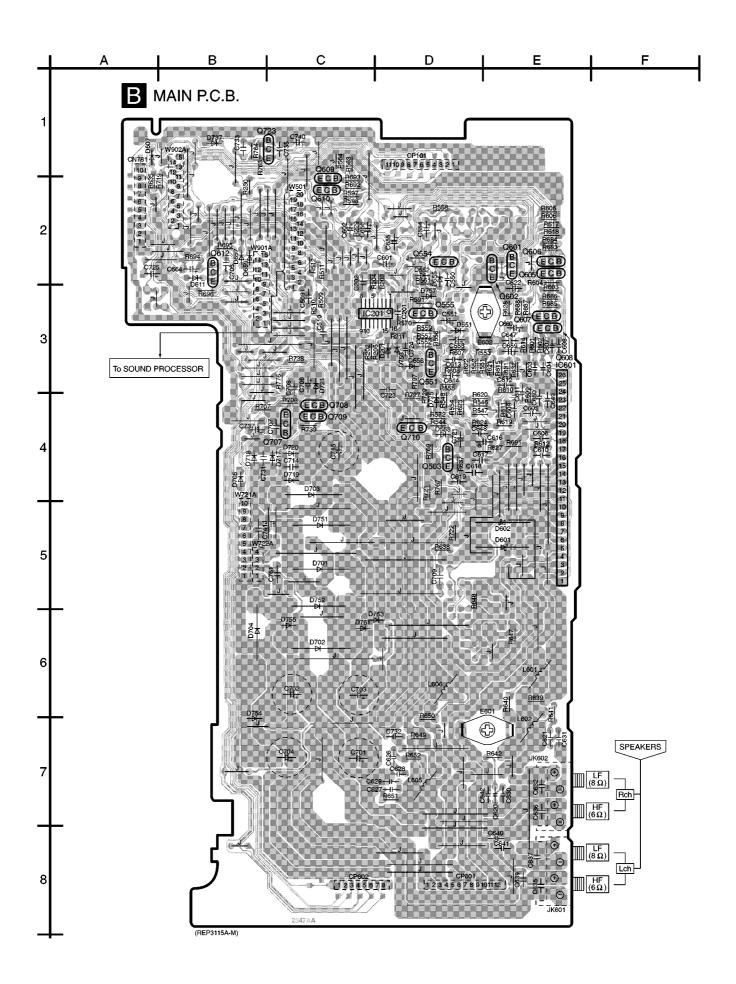


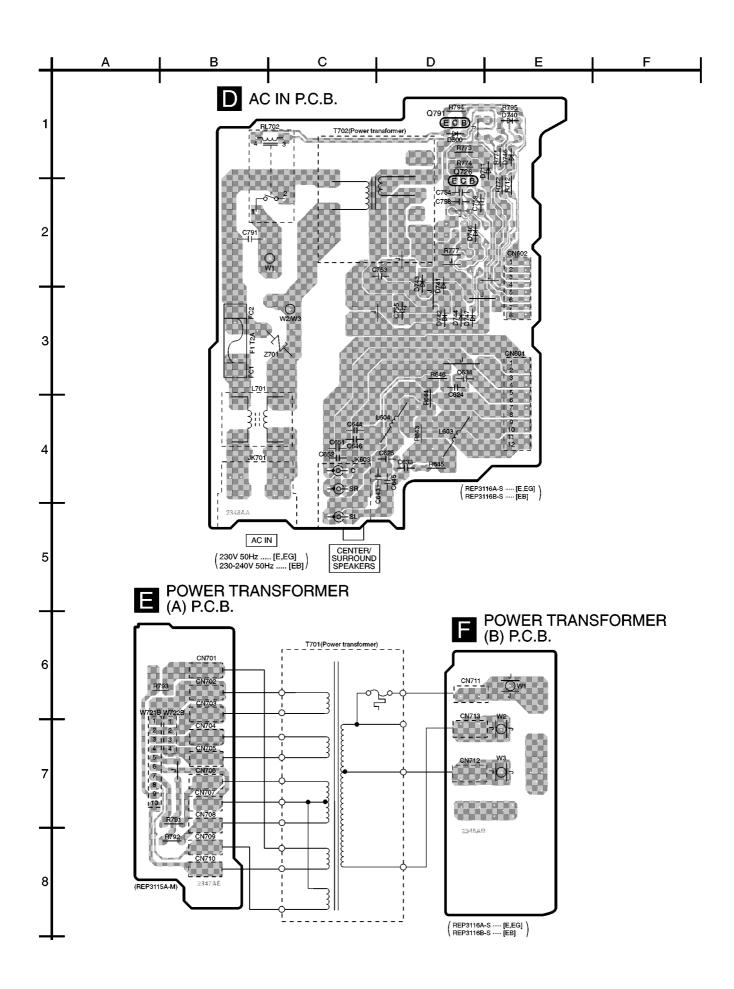
### **SCHEMATIC DIAGRAM-9**



# 11 Printed Circuit Board Diagram





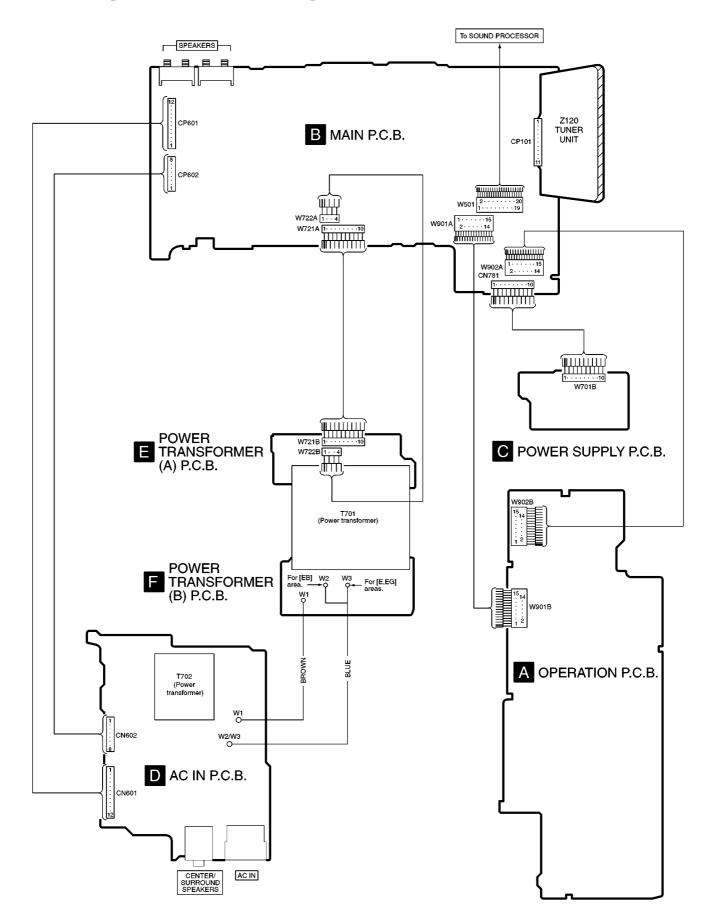




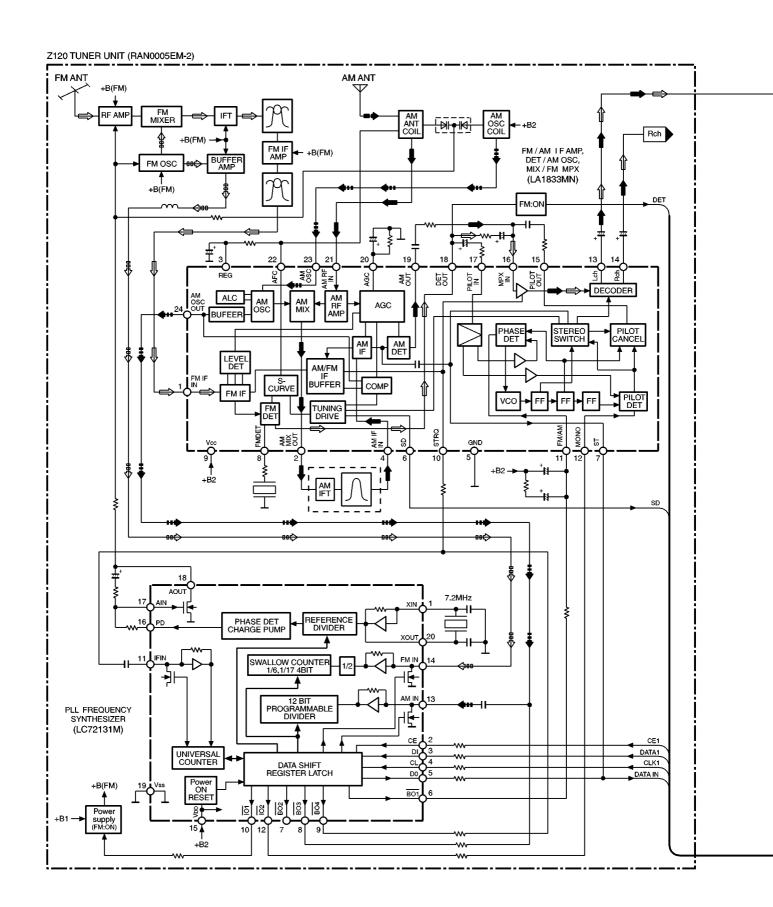
# 12 Type Illustration of ICs, Transistors and Diodes

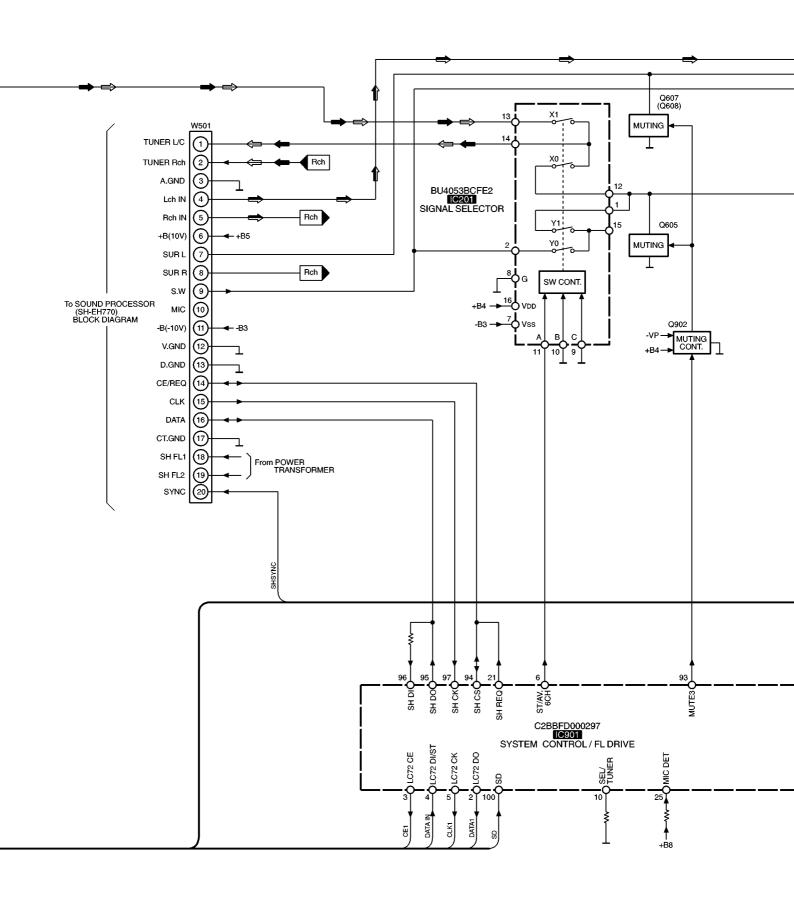
BU4053BCFE2 C1BB00000527	C2BBFD000297	RSN311W64B	UN411FTA UN4211TA UN4212TA	2SB1417PQTA	2SD2144STA
2SA1995RSTA 2SC5398RSTA	2SC3940AQSTA	2SB1548PQAU 2SD2374PQAU	1SS291TA MA700ATA  Ca Cathode Anode	MA4091HTA MA4100MTA MA4150HTA MA4300MTA Ca Cathode Anode	MA165TA  Ca Cathode Anode
SB360L6508  Ca Cathode Anode	1N5402BM21 RL1N4003N02	Ca Cathoo	MA4030MTA MA4051MTA MA4056MTA MA4068LTA MA4075MTA MA4082LTA	Anode Cathode	SELS5223C SELS5923C Anode Cathode

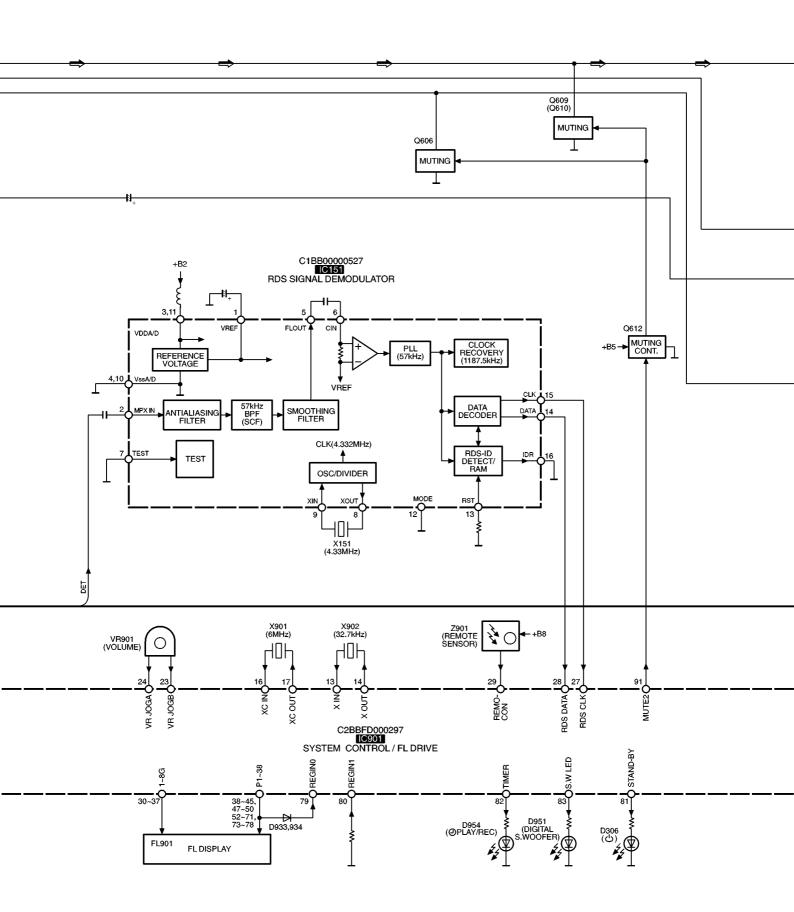
# 13 Wiring Connection Diagram

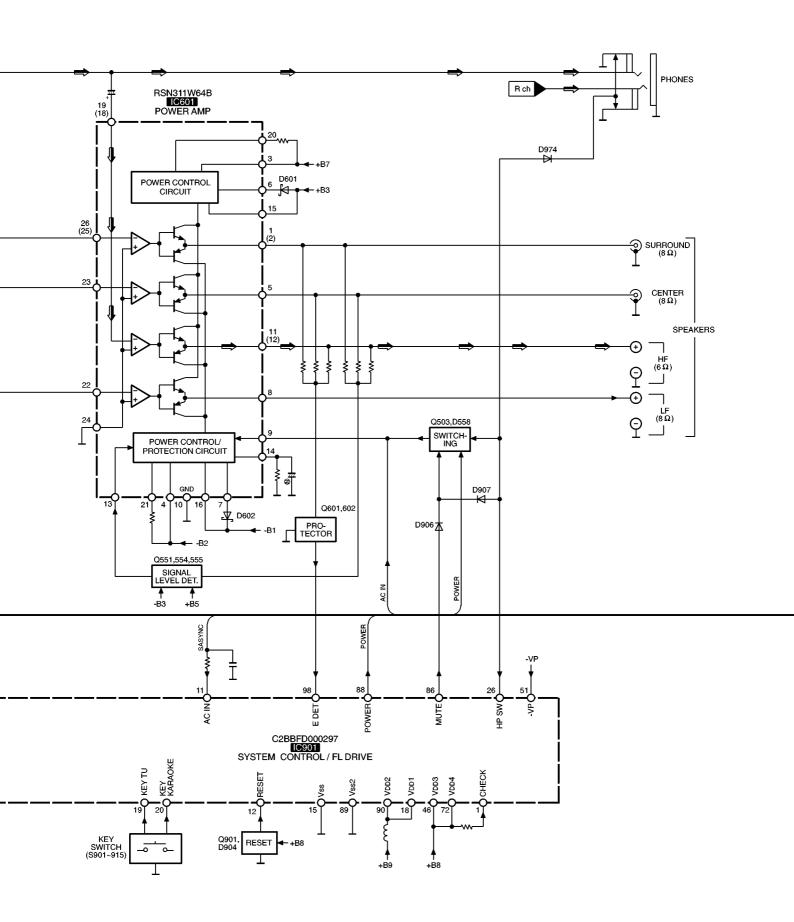


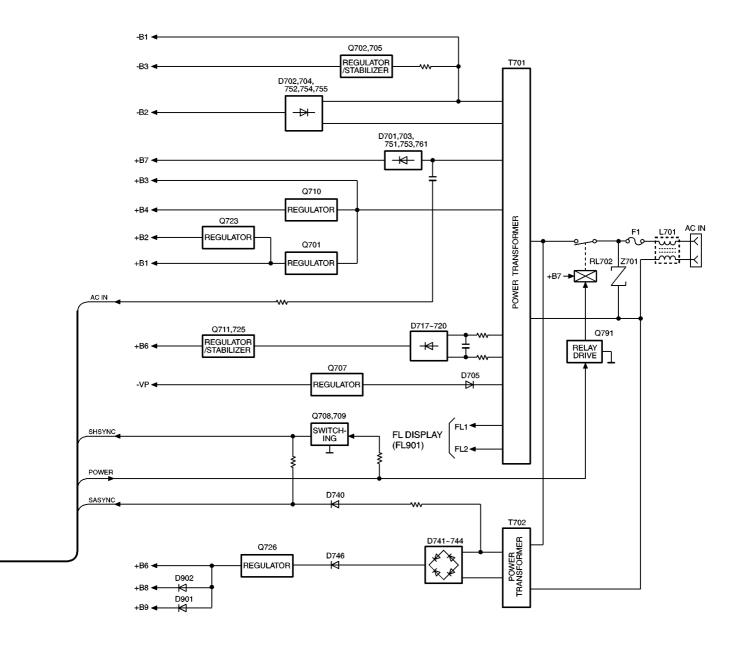
# 14 Block Diagram

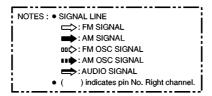












# 15 Terminal Function of ICs

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

Pin   Name				T
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.         O         Signal select output           6         CH         -         Not used, open           10         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         Oscillator connected terminal (6 MHz)           15         V <sub>SS</sub> -         GND terminal           16         XC IN         I         Oscillator connected terminal (6 MHz)           17         XC OUT         O         Oscillator			I/O	Function
2	No.	Name		
2	1	CHECK		
1	2		0	
C72 DI/ST	-			
4         LC72 D/ST         I         IF count data/stereo detect signal input from tuner unit (2120)           5         LC72 CK         O         Clock signal output for tuner unit (2120)           6         ST/AV. 6CH         O         Signal select output           7         NC         -         Not used, open           8         SEL TUNER         -         Not used, open           10         SEL/ TUNER         -         Not used, open           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         Oscillator connected terminal (6 MHz)           15         Y <sub>SS</sub> -         GND terminal           16         XC IN         I         Operation key signal input           17         XC OUT         O         O           18         V <sub>Dp</sub> 1         I         Power supply terminal           19         KEY         I         Operation key signal input           20         KEY         I         Operation key signal input           21         SH			J	
	4	LC72 DI/ST	-	
S			•	
6 ST/AV. 6CH 7 NC - Not used, open 8 SEL TUNER - Not used, open 10 SEL/ - Not used, connected to GND 11 AC IN	5	LC72 CK	0	
GCH	-			
7 NC - Not used, open  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 V <sub>SS</sub> - GND terminal  16 XC IN I Oscillator connected terminal (6 MHz)  17 XC OUT O  18 V <sub>DD</sub> 1 I Power supply terminal  19 KEY TU I Operation key signal input  20 KEY I Operation key signal input  21 SH REO 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 V <sub>DD</sub> )  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  30 8G I Remote control signal input  45 P8  46 V <sub>DD</sub> 3 I Power supply terminal  47 P9  1 I O Segment signal output  45 P8  46 V <sub>DD</sub> 3 I Power supply terminal  47 P9  1 I Power supply terminal  48 P38  79 REGINO - Not used, connected to GND  80 REGIN1  81 STANDBY O LED (ITMER) drive signal output  83 S.W.LED O LED (ITMER) drive signal output	ľ		O	Signal select output
SEL TUNER   Not used, open	<del>-</del>			Not used onen
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 V <sub>SS</sub> - GND terminal 16 XC IN I Oscillator connected terminal (6 MHz) 17 XC OUT O 18 V <sub>DD</sub> 1 I Power supply terminal 19 KEY TU I Operation key signal input 19 KEY TU I Operation key signal input 20 KEY KARAOKE 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 I Headphone connecting detect signal input (Not used, connected to V <sub>DD</sub> ) 26 HP SW I Headphone connecting detect signal input (Not used, connected to V <sub>DD</sub> ) 27 RDS CLK I RDS clock signal input 28 RBD DATA I RDS data signal input 29 REMO CON 30 8G I Grid signal output 37 1G Grid signal output 37 1G Grid signal output 45 P8 46 V <sub>DD</sub> 3 I Power supply terminal 47 P9 O Segment signal output 50 P12		I NC	-	Not used, open
10	-			
TÜNER  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 V <sub>SS</sub> - GND terminal  16 XC IN I Oscillator connected terminal (6 MHz)  17 XC OUT O  18 V <sub>DD</sub> 1 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 V <sub>DD</sub> )  26 HP SW I Headphone connecting detect signal input  27 RDS CLK I RDS clock signal input  28 RDS DATA I RDS clock signal input  29 REMO CON I Remote control signal input  29 REMO Grid signal output  30 8G I Remote control signal input  40 PP REMO CON  31 Grid signal output  45 P8  46 V <sub>DD</sub> 3 I Power supply terminal  47 PP I O Segment signal output  50 P12 Segment signal output  51 -VP I Power supply terminal (Negative)  52 P13 I O Segment signal output  53 P33 O Segment signal output  54 P8  55 P8  66 V <sub>DD</sub> 4 I Power supply terminal  67 P9  68 P38  60 REGIN1  61 STANDBY O LED (STANDBY) drive signal output  68 LOUNGE - LED (LOUNGE) drive signal output			-	
11	10		-	Not used, connected to GND
12				
13         X IN         I         Oscillator connected terminal (32.7 kHz)           14         X OUT         O         GND terminal           16         XC IN         I         Oscillator connected terminal (6 MHz)           17         XC OUT         O         Scillator connected terminal (6 MHz)           18         V <sub>DD</sub> 1         I         Power supply terminal           19         KEY TU         I         Operation key signal input           20         KEY         I         Operation key signal input           20         KEY         I         Operation key signal input           21         SH REQ         I         Power supply terminal           22         NC(GND)         -         Not used, connected to GND           23         VR JOGA         I         Volume control signal input           25         MIC DET         I         Microphone connecting detect signal input           26         HP SW         I         Headphone connecting detect signal input           27         RDS CLK         I         RDS clock signal input           28         RDS DATA         I         RDS clock signal input           29         REMO         I         Remote control signal input	11	AC IN	<u> </u>	
144         X OUT         O           155         V <sub>SS</sub> - GND terminal           16         XC IN         I           17         XC OUT         O           18         V <sub>DD</sub> 1         I           19         KEY TU         I           20         KEY KARAOKE         I           21         SH REQ         I           22         NC(GND)         -           23         VR JOGB         I           24         VR JOGA         I           25         MIC DET         I           Microphone connecting detect signal input           26         HP SW         I           26         HP SW         I           27         RDS CLK         I           28         RDS DATA         I           29         REMO         I           CON         I           30         8G           I         I           I         BDS data signal input           29         REMO           CON         I           38         P1           I         I           Q         Grid signal output	12	RESET	- 1	Reset signal input
144         X OUT         O           155         V <sub>SS</sub> - GND terminal           16         XC IN         I           17         XC OUT         O           18         V <sub>DD</sub> 1         I           19         KEY TU         I           20         KEY KARAOKE         I           21         SH REQ         I           22         NC(GND)         -           23         VR JOGB         I           24         VR JOGA         I           25         MIC DET         I           Microphone connecting detect signal input           26         HP SW         I           26         HP SW         I           27         RDS CLK         I           28         RDS DATA         I           29         REMO         I           CON         I           30         8G           I         I           I         BDS data signal input           29         REMO           CON         I           38         P1           I         I           Q         Grid signal output	13	X IN	1	Oscillator connected terminal (32.7 kHz)
15	14	X OLIT	0	,
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 GRARAOKE 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 30 8G I Remote control signal input 37 1G Grid signal output 38 P1 I ROS Grid signal output 45 P8 P8 POWER Segment signal output 46 VDD3 I Power supply terminal 47 P9 I Power supply terminal 47 P9 I Power supply terminal (Negative) 50 P12 Segment signal output 50 P12 Segment signal output 51 -VP I Power supply terminal (Negative) 52 P13 I POWER Segment signal output 53 P33 O Segment signal output 54 P38				GND terminal
17       XC OUT       O         18       V <sub>DD</sub> 1       I       Power supply terminal         19       KEY TU       I       Operation key signal input         20       KEY       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 JOGA       I       Volume control signal input         24       VR JOGA       I       Volume control signal input         25       MIC DET       I       Microphone connecting detect signal input (Not used, connected to V <sub>DD</sub> )         26       HP SW       I       Headphone connecting detect signal input Remote control signal input         27       RDS CLK       I       RDS clock signal input         28       RDS DATA       I       Remote control signal input         29       REMO CON       I       Remote control signal input         30       8G       I       I       Grid signal output         37       1G       Grid signal output         45       P8       I       Power supply terminal         47       P9       I       Power supply terminal (Negative) <td>-</td> <td></td> <td></td> <td></td>	-			
18       V <sub>DD</sub> 1       I       Power supply terminal         19       KEY TU       I       Operation key signal input         20       KEY       I       Operation key signal input         20       KEY       I       Operation key signal input         21       SH REQ       I       Processor         22       NC(GND)       -       Not used, connected to GND         23       VR JOGA       I       Volume control signal input         24       VR JOGA       I       Microphone connecting detect signal input (Not used, connected to V <sub>DD</sub> )         26       HP SW       I       Headphone connecting detect signal input (Not used, connected to V <sub>DD</sub> )         26       HP SW       I       REDS clock signal input (Not used, connected to V <sub>DD</sub> )         27       RDS CLK       I       RDS clock signal input (Not used, connected to Signal input (Not used, connected to Signal input (Not used, Signal output (Not used, S	_			Osciliator connected terminal (6 MHz)
19				
Comparison   Com	18		- 1	
Comparison   Com	19	KEY TU		
KARAOKE	20	KEY	$\overline{}$	
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 V <sub>DD</sub> )  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  30 8G I REMO GON  30 BG I REMO GON  31 BREMO GON  32 BREMO GON  33 BREMO GON  34 BREMO GON  35 BREMO GON  36 BREMO GON  37 IG  38 P1 I Power supply terminal  48 PB  49 PB  40 Segment signal output  50 P12  51 -VP I Power supply terminal (Negative)  52 P13 I Power supply terminal (Negative)  53 P13 I Power supply terminal  54 PB  55 P13 I Power supply terminal  56 P12  57 PDA  58 P38  59 REGINO Segment signal output  59 P38  79 REGINO - Not used, connected to GND  80 REGIN1  81 STANDBY O LED (STANDBY) drive signal output  82 TIMER O LED (DIGITAL S.WOOFER) drive signal output  84 LOUNGE - LED (LOUNGE) drive signal output		KARAOKE		
Processor  Processor  Not used, connected to GND  Volume control signal input  Volume control signal input  Not used, connected to GND  The system of the sy	21	SH REQ	1	Request signal input from Sound
Not used, connected to GND			-	
VR JOGB	22	NC(GND)	-	
24 VR JOGA 25 MIC DET I Microphone connecting detect signal input (Not used, connected to V <sub>DD</sub> ) 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 29 REMO CON I Remote control signal input 30 RG Grid signal output 31 IG Grid signal output 32 PS REMO Segment signal output 33 PS REMO Segment signal output 44 PS REMO Segment signal output 45 PS REMO Segment signal output 46 V <sub>DD</sub> 3 I Power supply terminal 47 PS I Power supply terminal (Negative) 50 PS PS I Power supply terminal (Negative) 51 -VP I Power supply terminal (Negative) 52 PS REMO Segment signal output 53 PS PS I Power supply terminal 54 PS PS I Power supply terminal 55 PS PS I POWER signal output 56 PS PS I POWER signal output 57 PS PS PS I POWER signal output 58 PS PS I POWER SIGNAL OUTPUT 58 PS PS PS PS I POWER SIGNAL OUTPUT 59 REGINO Not used, connected to GND 50 REGINS I POWER SIGNAL OUTPUT 50 PS	-		1	
Mic Det	_			Volume control signal input
(Not used, connected to V <sub>DD</sub> )   26				
26	25	MIC DET	- 1	Microphone connecting detect signal input
RDS CLK	L_			
28 RDS DATA I RDS data signal input 29 REMO CON 30 8G GI Grid signal output 37 1G 38 P1 GI Segment signal output 45 P8 GI GRID Segment signal output 45 P8 GI GRID Segment signal output 46 VDD3 I Power supply terminal 47 P9 GI GRID Segment signal output 50 P12 GI Power supply terminal (Negative) 51 -VP I Power supply terminal (Negative) 52 P13 GI POWER SUPPLY TERMINAL 71 P32 GI POWER SUPPLY TERMINAL 72 VDD4 I Power supply terminal 73 P33 GI POWER SUPPLY TERMINAL 74 P9 GI POWER SUPPLY TERMINAL 75 P38 GI POWER SUPPLY TERMINAL 76 P38 GI POWER SUPPLY TERMINAL 77 P38 GI POWER SUPPLY TERMINAL 78 P38 GI POWER SUPPLY TERMINAL 79 REGINO - 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	-			
29 REMO CON 30 8G 30 8G 37 1G 38 P1 45 P8 46 V <sub>DD</sub> 3 I Power supply terminal 47 P9 4	27	RDS CLK		
CON  30 8G	28	RDS DATA	I	RDS data signal input
30 8G	29	REMO	ı	Remote control signal input
		CON		
37	30	8G		
38	Ш		0	Grid signal output
	37	1Ġ		
	38	P1		
45 P8 46 V <sub>DD</sub> 3 I Power supply terminal 47 P9			0	Segment signal output
46 V <sub>DD</sub> 3 I Power supply terminal  47 P9	45			• • •
47 P9    P9   P12   Power supply terminal (Negative)   P13	46	V <sub>DD</sub> 3	-	Power supply terminal
	-		-	1, 2
Signal   Figure   F	Ιï	'ĭ	0	Seament signal output
51 -VP I Power supply terminal (Negative)  52 P13	50	P12	-	
52 P13   O Segment signal output 71 P32   Power supply terminal 73 P33     O Segment signal output 78 P38   O Segment signal output 79 REGINO - Not used, connected to GND 80 REGIN1   O LED (STANDBY) drive signal output 81 STANDBY O LED (TIMER) 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	-		1	Power supply terminal (Negative)
				Company Communical (Nogativo)
71	1	[13	0	Segment signal output
72		P32	J	oegment signal output
73 P33   O Segment signal output   78 P38   O Segment signal output   79 REGINO   O Not used, connected to GND   80 REGIN1   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	-		,	Power supply terminal
	-		- 1	гоwer suppry terminal
78     P38       79     REGIN0     -       80     REGIN1       81     STANDBY     O       82     TIMER     O       83     S.W.LED     O       LED (DIGITAL S.WOOFER) drive signal output       84     LOUNGE     -       LED (LOUNGE) drive signal output	[ /3 ]		_	Commant signal sutnut
79 REGINO - 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			U	Segment signal output
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				Net read course to the OND
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	-		-	INOT USEA, CONNECTED TO GIND
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	-			
83 S.W.LED O LED (DIGITAL S.WOOFER) drive signal output  84 LOUNGE - LED (LOUNGE) drive signal output	81	STANDBY	0	LED (STANDBY) drive signal output
83 S.W.LED O LED (DIGITAL S.WOOFER) drive signal output  84 LOUNGE - LED (LOUNGE) drive signal output	82	TIMER	0	LED (TIMER) drive signal output
output     output	_		0	
84 LOUNGE - LED (LOUNGE) drive signal output			-	
	84	LOUNGE	-	·
1 1 1	-			
		•		/

Pin	Terminal	I/O	Function	
No.	Name			
85	CHORUS	-	LED (CHORUS) drive signal output	
			(Not used, connected to V <sub>DD</sub> )	
86	MUTE	0	Muting signal output	
87	NC	-	Not used, open	
88	POWER	0	Power control signal output	
89	V <sub>SS</sub> 2	•	GND terminal	
90	V <sub>DD</sub> 2	-	Power supply terminal	
91	MUTE2	0	Muting signal output	
92	NC	•	Not used, open	
93	MUTE3	0	Muting signal output	
94	SH CS	0	Chip select signal output for Sound	
			Processor	
95	SH DO	0	Serial communication signal to Sound	
			Processor (Data signal output)	
96	SH DI	ı	Serial communication signal to Sound	
			Processor (Data signal input)	
97	SH CK	ı	Serial communication signal to Sound	
			Processor (Clock signal input)	
98	E DET	1	Unusual condition detect signal input	
99	CR TIMER	-	Not used, open	
100	SD	1	Station detector signal input from tuner unit	
			(Z120)	

# 16 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 fireretardant (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

<ID>: 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 dependent on 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 &	Pcs	Remarks
		Description		
1	RKM0395F-S	CABINET	1	
2	RHD30007-1S	SCREW	4	
3	XTBS3+10JFZ1	SCREW	1	
4	REX0967	WIRE ASS'Y	1	
5	RMQ1018	GASKET	1	
6	RGW0317-S	KNOB, VOLUME	1	
7	RHN90001	NUT	1	
8	RKA0106-N	FOOT RING	4	
9	RKF0606K-K	BACK GRILL	1	
10	RKW0581-1V	FL WINDOW	1	
11	RMN0427A	CABLE HOLDER	1	
12	RYP1005-S	FRONT PANEL ASS'Y	1	
12-1	RGB0025-A	TECHNICS BADGE	1	
13	SHG1654	RUBBER	4	
14	XTB3+10JFZ	SCREW	11	
15	XTB3+8JFZ	SCREW	13	
16	XTW3+15T	SCREW	2	
17	XTBS3+8JFZ1	SCREW	2	
18	RLBT4001-N	FERRITE CORE	1	
19	RMN0582	HOLDER	1	
20	XTB3+12FFZ	SCREW	1	
21	XTB3+20JFZ	SCREW	1	
A1	EUR7702050	REMOTE CONTROLLER	1	
A1-1	UR64EC2337E	BATTERY COVER	1	
A2	REE0853	SP CORD (GRAY/BLUE)	2	
A3	REE1057	SP CORD(RED/BLACK)	2	
A4	SJP9009	ANT ADAPTOR	1	(EB)
<b>A</b> 5	RJA0019-1X	AC POWER SUPPLY CORD	1	(E,EG,EP) ⚠
<b>A</b> 5	RJA0053-2X	AC POWER SUPPLY CORD	1	(EB) A
A6	RQCA0801	DEMO GUIDE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A7	RQCB0169	SERVICE CENTER LIST	1	
A8	RQT5756-E	OPERATING	1	(E) <ia></ia>
	1013730 1	INSTRUCTIONS	_	(2)(21)
A8	RQT5753-B	OPERATING	1	(EB,EP) <ib></ib>
		INSTRUCTIONS		
A8	RQT5751-D	OPERATING	1	(EG) < IC>
		INSTRUCTIONS		
A8	RQT5752-H	OPERATING	1	(EG) < ID>
		INSTRUCTIONS		(==) ==
A8	RQT5757-R	OPERATING INSTRUCTIONS	1	(EP) < IE>
A9	RSA0007	FM INDOOR ANTENNA	1	
A10	RSA0022-L	AM LOOP ANTENNA	1	
		121 2001 121121111	_	
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
C201,02	ECBT1H102KB5	50V 0.1U	2	
C395,96	ECBT1H104RB5	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	
C601,02	ECA1CAK100XB	16V 10U	2	
C603,04	ECBT1H471KB5	50V 470P	2	F1D1H471A012
C605,06	ECBT1H102KB5	50V 1000P	2	F1D1H102A012
C607,08	ECBT1H471KB5	50V 470P	2	F1D1H471A012
C609,10	ECBT1H560J5	50V 56P	2	ECBT1H560J3
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
C624-31	ECBT1H104KB5	50V 0.1U	8	
C632	ECBT1H473KB5	50V 0.047U	1	
C633,34	ECBT1H104KB5	50V 0.1U	2	
C635-37	ECBT1H473KB5	50V 0.047U	3	
C639-44	ECBT1H102KB5	50V 1000P	6	F1D1H102A012
C645,46	ECBT1H473KB5	50V 0.047U	2	
C647-50	ECBT1H102KB5	50V 1000P	4	F1D1H102A012
C651	ECBT1H473KB5	50V 0.047U	1	
C652	ECBT1H102KB5	50V 1000P	1	F1D1H102A012
C655,56	ECA1CAK100XB	16V 10U	2	
C659,60	ECA1CAK100XB	16V 10U	2	
C664	ECEA1CKS100	16V 10U	1	
C701-04	F2B1V4720004	4700U	4	Δ
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	470U	1	Δ
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	

	Part No.	Part Name &	Pcs	Remarks
<b>***</b>		Description	١.	
C734	RCE1HKA3R3BG	50V 3.3U	1	F2A1H3R3A015
C735	ECBT1H473KB5	50V 0.047U	1	A
C737	ECA1HM101	100U	1	Δ
C740	ECA1CAK100XB	16V 10U	1	
C741	ECQE1104KF3	100V 0.1U	1	W1D1W1020001
C753	ECKR1H103ZF5	50V 0.01U	1	F1B1H1030001
C754	ECBT1H103KB5	50V 0.01U	1	Α
C755		1000U	1	Δ
C758	ECBT1H103KB5	50V 0.01U	1	T03 13 45 03 03 1
C759	RCE1AKA470BG	10V 47U	1	F2A1A470A011
C761	ECQE1104KF3	100V 0.1U	1	Δ.
C791	ECKWRS102MBC	1000P	1	Δ
C901	EEAFC0J101B	6.3V 100U	1	
C902	RCE1AM102BV	10V 1000U	2	
C903,04	ECBT1H103KB5	50V 0.01U	_	m1m1m1001010
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		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
C931	ECEA1CKN100B	16V 10U	1	
CN601	RJU057W012	CONNECTOR (12P)	1	K1KB12B00033
CN602	RJU057W008	CONNECTOR (8P)	1	K1KB08B00034
CN701-13	RJS1A1101T1	CONNECTOR (1P)	13	
CN781	RJS10T5ZA	CONNECTOR (10P)	1	K1MP10A00007
CP101	RJT100W11	CONNECTOR (11P)	1	
CP601		CONNECTOR (12P)	1	K1KA12A00160
CP602	RJT057W008-1	CONNECTOR (8P)	1	K1KA08A00187
D151	MA4051M	DIODE	1	MAZ40510M
D201	MA4056M	DIODE	1	MAZ40560M
D306			-	
	SELS5223C	LED	1	B3AAA0000486
D500	MA165	DIODE	_	MA2C165
D500 D551,52			1	
	MA165	DIODE	1	MA2C165
D551,52	MA165 MA165	DIODE	1 1 2	MA2C165 MA2C165
D551,52 D555	MA165 MA165 MA4100M	DIODE DIODE	1 1 2 1	MA2C165 MA2C165 MAZ41000M
D551,52 D555 D558	MA165 MA165 MA4100M MA165	DIODE DIODE DIODE	1 1 2 1	MA2C165 MA2C165 MAZ41000M MA2C165
D551,52 D555 D558 D601,02 D607	MA165 MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M	DIODE DIODE DIODE	1 1 2 1 1 2	MA2C165 MA2C165 MAZ41000M MA2C165 B0JAPG000014 MAZ40510M
D551,52 D555 D558 D601,02 D607	MA165 MA165 MA4100M MA165 SB360L6508 1SS291TA	DIODE DIODE DIODE DIODE	1 1 2 1 1 2 1	MA2C165 MA2C165 MAZ41000M MA2C165 BOJAPG000014
D551,52 D555 D558 D601,02 D607	MA165 MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M	DIODE DIODE DIODE DIODE DIODE	1 1 2 1 1 2 1 1	MA2C165 MA2C165 MAZ41000M MA2C165 B0JAPG000014 MAZ40510M MA2C165
D551,52 D555 D558 D601,02 D607 D611 D657-59	MA165 MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M MA165	DIODE DIODE DIODE DIODE DIODE DIODE	1 1 2 1 1 2 1 1 1 3	MA2C165 MA2C165 MAZ41000M MA2C165 B0JAPG000014 MAZ40510M MA2C165
D551,52 D555 D558 D601,02 D607 D611 D657-59	MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M MA165 1N5402BF	DIODE DIODE DIODE DIODE DIODE DIODE DIODE	1 1 2 1 1 2 1 1 3 4	MA2C165 MA2C165 MAZ41000M MA2C165 B0JAPG000014 MAZ40510M MA2C165
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705	MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M MA165 1N5402BF RL1N4003N02	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	1 1 2 1 1 2 1 1 3 4	MA2C165 MA2C165 MAZ41000M MA2C165 B0JAPG000014 MAZ40510M MA2C165
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711	Ma165 Ma4100M Ma165 SB360L6508 1SS291TA Ma4051M Ma165 1N5402BF RL1N4003N02 RL1N4003N02	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	1 1 2 1 1 2 1 1 3 4 1	MA2C165 MA2C165 MAZ41000M MA2C165 B0JAPG000014 MAZ40510M MA2C165
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20	Ma165 Ma165 Ma4100M Ma165 SB360L6508 1SS291TA Ma4051M Ma165 1N5402BF RL1N4003N02 RL1N4003N02 RL1N4003N02	DIODE	1 1 2 1 1 2 1 1 3 4 1 1 4	Ma2C165 Ma2C165 Ma241000M Ma2C165 B0JAPG000014 Ma2C165  A Ma243000M Ma2C43000M Ma2C43000M
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20 D721	MA165 MA100M MA165 SB360L6508 1SS291TA MA4051M MA165 1N5402BF RL1N4003N02 RL1N4003N02 RL1N4003N02 MA4300M	DIODE	1 1 2 1 1 2 1 1 3 4 1 1 1	Ma2C165 Ma2C165 Ma2C165 Ma2C165 B0JAPG000014 Ma2C165  A  Ma2C165  A  Ma2C165
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20 D721 D723	Ma165 Ma165 Ma4100M Ma165 SB360L6508 1SS291TA Ma4051M Ma165 1N5402BF RL1N4003N02 RL1N4003N02 RL1N4003N02 MA4300M MA4150M	DIODE	1 1 2 1 1 2 1 1 3 4 1 1 1 4 1	Ma2C165 Ma2C165 Ma2C165 Ma2C165 B0JAPG000014 Ma2C165  A A Ma2C165 A A Ma2C165 Ma2C165 A Ma2C165 A Ma2C165
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20 D721 D723 D725	MA165 MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M MA165 1N5402BF RL1N4003N02 RL1N4003N02 RL1N4003N02 MA4150M MA4150M MA4082LTA	DIODE	1 1 2 1 1 2 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ma2C165 Ma2C165 Ma2C165 Ma2C165 B0JAPG000014 Ma2C165  A  Ma2C165 A
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20 D721 D723 D725 D730	MA165 MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M MA165 1N5402BF RL1N4003N02 RL1N4003N02 RL1N4003N02 MA4300M MA4150M MA4082LTA MA4091H	DIODE	1 1 2 1 2 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ma2C165 Ma2C165 Ma2C165 Ma2C165 B0JAPG000014 Ma2C165  A  Ma2C165  A  Ma2C165  Ma2C16
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20 D721 D723 D725 D730 D737	MA165 MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M MA165 1N5402BF RL1N4003N02 RL1N4003N02 RL1N4003N02 MA4300M MA4150M MA4082LTA MA4091H MA4082LTA	DIODE	1 1 2 1 1 2 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ma2C165 Ma2C165 Ma2C165 Ma2C165 B0JAPG000014 Ma2C165  A  Ma2C165 A
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20 D721 D723 D725 D730 D737	MA165 MA165 MA4100M MA165 SB360L6508 1SS291TA MA4051M MA165 1N5402BF RL1N4003N02 RL1N4003N02 RL1N4003N02 MA4300M MA4150M MA4082LTA MA4091H MA4082LTA	DIODE	1 1 2 1 1 2 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ma2C165 Ma2C165 Ma2C165 Ma2C165 B0JAPG000014 Ma2C165  A  Ma2C165  M  MA2C165
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20 D721 D723 D725 D730 D737 D738-40 D741-44	Ma165 Ma165 Ma4100M Ma165 SB360L6508 1SS291TA Ma4051M Ma165 1N5402BF RL1N4003N02 RL1N4003N02 Ma4300M Ma4150M Ma4082LTA Ma4091H Ma4082LTA Ma4082LTA Ma165 RL1N4003N02	DIODE	1 1 2 1 1 2 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ma2C165 Ma2d1000M Ma2C165 B0JapG000014  Ma2d0510M Ma2C165     Ma2d3000M  Ma2d3000M  Ma2d3000M  Ma2d3000M  Ma2d0820LF  Ma2d0820LF  Ma2d0820LF  Ma2d0820LF  Ma2d0820LF  Ma2d0820LF
D551,52 D555 D558 D601,02 D607 D611 D657-59 D701-04 D705 D711 D717-20 D721 D723 D725 D730 D737 D738-40 D741-44 D745	Ma165 Ma165 Ma4100M Ma165 SB360L6508 1SS291TA Ma4051M Ma165 1N5402BF RL1N4003N02 RL1N4003N02 Ma4300M Ma4150M Ma4082LTA Ma4091H Ma4082LTA Ma4082LTA Ma165 RL1N4003N02 Ma4083LTA	DIODE	1 1 2 1 1 2 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MA2C165 MA2C165 MA2C165 MA2C165 B0JAPG000014  MA2C165   MA2C165   MA2C165   MA2C165   MA2C165  MA2C165  MA2C165  MA2C165  MA2C165  MA2C165  MA2C165  MA2C165  MA2C165  MA2C165

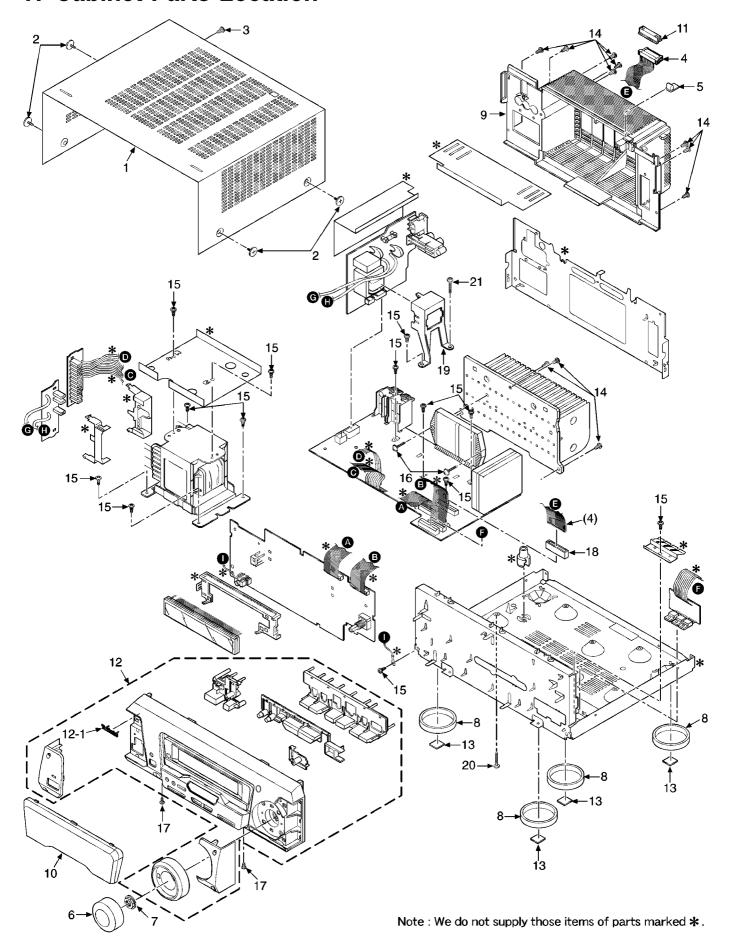
Ref. No.	Part No.	Part Name &	Pcs	Remarks
		Description	+_	Δ
D751,52	1N5402BF	DIODE	2	A
D753-55	RL1N4003N02	DIODE	3	Δ
D756,57	MA700	DIODE	2	MA2C700
D758	MA165	DIODE	1	MA2C165
D761	RL1N4003N02	DIODE	1	$\triangle$
D901,02	1SS291TA	DIODE	2	
D904	MA165	DIODE	1	MA2C165
D905	1SS291TA	DIODE	1	
D906,07	MA165	DIODE	1 2	MA2C165
D933,34	MA165	DIODE	2	MA2C165
· ·				MAZCIOS
D951	LNJ301MPUJAD	LED	1	
D954	SELS5923C	LED	1	B3ADA0000083
D961	MA4075M	DIODE	1	MAZ40750M
D973	MA4030M	DIODE	1	MAZ40300M
D974	MA165	DIODE	1	MA2C165
F1	XBA2C20TB0	FUSE, T2A	1	K5D202BL0001
			+	Δ
FL901	32BB00000004	FL DISPLAY	1	
ETIZAT	A2BB00000084	EN DISCHAI	+	
			+	
IC151	C1BB00000527	IC	1	
IC201	BU4053BCFE2	IC	1	
IC601	RSN311W64B	IC	1	
IC901	C2BBFD000297	IC	1	
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JK601,02	K4BC04B00028	JACK, SPEAKERS	2	
JK603	K2HA103B0015	JACK, SPEAKERS	1	
JK701	SJS9236-1	JACK, AC INLET	1	K2AA2B000002
011702	5025230 2	011011/110 211221	-	
JK903	RJJ37TN02-C	JACK, HEADPHONES	1	K2HC103A0009
L151,52	ELEXT101KA9	COIL	2	
L153	RLQA1R0JT1-Y	COIL	1	GOC1ROJAO019
L601-06	RLQYR73MW1-0	COIL	6	G0ZZ00001606
L701	RLQZ371	LINE FILTER	1	ELF15N035AN
1,01	KLQ2371	DINE FILIER	-	<u> </u>
L901	RLQA100JT1-Y	COIL	1	G0C100JA0019
L902	RLQA1R0JT1-Y	COIL	1	GOC1ROJA0019
2702	REGRETOGII	COIL	+-	GUCIKUUMUUIS
P1	RPG5267	PACKING CASE	1	(E)
FI	RFG5267	(SYSTEM)	-	( 5)
P1	RPG5266	PACKING CASE	1	(EB)
	112 03200	(SYSTEM)	-	(22)
P1	RPG5265	PACKING CASE	1	(EG)
		(SYSTEM)		
P1	RPG5268	PACKING CASE	1	(EP)
<b>D</b> 2	DD000E1	(SYSTEM)	+-	
P2	RPQ0951	PAD (SYSTEM)	1	
P3	RPG4397	PACKING CASE(RS)	1	
P3	RPG4396	PACKING CASE(SA)	1	
P3	RPG4398	PACKING CASE(SH)	1	
P3	RPG4399	PACKING CASE(SL)	1	
P4	RPN1195-2	PAD(RS)	1	
P4	RPN1194	PAD(SA)	1	
P4	RPN1196	PAD(SH)	1	
P4	RPN1197	PAD(SL)	1	
P5	RPF0139-1	PROTECTION BAG	1	
		(F.B.)		
P6	SPP740-1	SHEET	4	
DCD1	DED33353	MATH DOD	+-	fpmr 1
PCB1	REP3115A-M	MAIN PCB	1	[RTL]
PCB2	REP3116A-S	SUB PCB	1	(E,EG,EP) [RTL]
PCB2	REP3116B-S	SUB PCB	1	(EB) [RTL]
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0503		TRANSISTOR	1	B1AACF000059
Q503 Q551	2SC5398RSTA	TRANSISTOR	1	B1AACF000059
Q551	2SC5398RSTA 2SA1995RSTA	TRANSISTOR	1	B1ACDF000006
Q551 Q554	2SC5398RSTA 2SA1995RSTA 2SA1995RSTA	TRANSISTOR TRANSISTOR	1	
Q551 Q554 Q555	2SC5398RSTA 2SA1995RSTA 2SA1995RSTA 2SC3327A	TRANSISTOR TRANSISTOR TRANSISTOR	1 1 1	B1ACDF000006 B1ACDF000006
Q551 Q554 Q555 Q601,02	2SC5398RSTA 2SA1995RSTA 2SA1995RSTA 2SC3327A 2SC5398RSTA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 1 1 2	B1ACDF000006
Q551 Q554 Q555 Q601,02 Q605-10	2SC5398RSTA 2SA1995RSTA 2SA1995RSTA 2SC3327A 2SC5398RSTA 2SC3327A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 1 1 2 6	B1ACDF000006 B1ACDF000006 B1AACF000059
Q551 Q554 Q555 Q601,02 Q605-10 Q612	2SC5398RSTA 2SA1995RSTA 2SA1995RSTA 2SC3327A 2SC5398RSTA 2SC3327A UN411FTA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 1 1 2 6 1	BlacdF000006 BlacdF000006 BlaacF000059 UNR411F00a
Q551 Q554 Q555 Q601,02 Q605-10	2SC5398RSTA 2SA1995RSTA 2SA1995RSTA 2SC3327A 2SC5398RSTA 2SC3327A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 1 1 2 6	B1ACDF000006 B1ACDF000006 B1AACF000059

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q702	2SB1548PQAU	TRANSISTOR	1	2SB15480J1AU ⚠
Q705	2SA1995RSTA	TRANSISTOR	1	B1ACDF000006
Q707	2SB1417PQTA	TRANSISTOR	1	2SB14170JA ⚠
Q708	UN4211	TRANSISTOR	1	UNR4211
Q709	2SC3327A	TRANSISTOR	1	01111111
Q710	2SC3940AQSTA	TRANSISTOR	1	2SC3940ARA
Q711	2SB1548PQAU	TRANSISTOR	1	∆ 2SB15480J1AU
			1	
Q723	2SC3940AQSTA	TRANSISTOR		Δ
Q725	2SC5398RSTA	TRANSISTOR	1	B1AACF000059
Q726	2SC3940AQSTA	TRANSISTOR	1	2SC3940ARA <u>∧</u>
Q791	2SC3327A	TRANSISTOR	1	
Q901	UN4212TA	TRANSISTOR	1	UNR421200A
Q902	UN411FTA	TRANSISTOR	1	UNR411F00A
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	
R202-05	ERDS2FJ104	1/4W 100K	4	
R211	ERDS2FJ271	1/4W 270	1	
R229,30	ERDS2FJ102	1/4W 1K	2	
R509-12	ERDS2FJ470	1/4W 47	4	
R544	ERDS2FJ103	1/4W 10K	1	
R546,47	ERDS2FJ183	1/4W 18K	2	
R548	ERDS2FJ102	1/4W 1K	1	
R551	ERDS2FJ183	1/4W 18K 1/4W 47K	1	
R552	ERDS2FJ473 ERDS2FJ562	· .	2	
R553,54 R555	ERDS2FJ223	1/4W 5.6K 1/4W 22K	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	
R611,12	ERDS2FJ563	1/4W 56K	2	
R614,15	ERDS2FJ472	1/4W 4.7K	2	
R617,18	ERDS2FJ472	1/4W 4.7K	2	
R619,20	ERDS2FJ124	1/4W 120K	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	
R631,32	ERDS2FJ392	1/4W 3.9K	2	
R635	ERDS2FJ222	1/4W 2.2K	1	
R637	ERDS2FJ153	1/4W 15K	1	
R638 R639,40	ERDS2FJ683 ERDS1FJ100	1/4W 68K 10	2	Δ
R641,42	ERDS1FJ100 ERDS2FJ100	1/4W 10	2	
R643,44	ERDS1FJ100	10	2	Δ
R645,46	ERDS2FJ100	1/4W 10	2	
R647	ERDS2FJ271	270	1	Δ
R648	ERD2FCG121	120	1	Δ
R649-52	ERDS1FJ100	10	4	Δ
R683-86	ERDS2FJ102	1/4W 1K	4	
R687,88	ERDS2FJ152	1/4W 1.5K	2	
R691	ERDS1FJ680	68	1	Δ
R692,93	ERDS2FJ102	1/4W 1K	2	
R694	ERDS2FJ223	1/4W 22K	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R695	ERDS2FJ471	1/4W 470	1	
R696	ERDS2FJ473	1/4W 47K	1	
R707	ERD2FCJ4R7	4.7	1	Δ
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	<u> </u>
R722	ERQ16NKW2R2E	2.2	1	<u> </u>
R723 R724	ERDS2FJ562 ERDS2FJ392	1/4W 5.6K 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	Δ
R767	ERD2FCJ4R7	4.7	1	Δ
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	ERDS1FVJ1801
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	
R908	ERDS2FJ472	1/4W 4.7K	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	
R940,41	ERDS2FJ102	1/4W 1K	2	
R942	ERDS2FJ222	1/4W 2.2K	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	
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	

Ref. No.	Part No.	Part Name &	Pcs	Remarks
		Description		
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	
R965,66	ERDS2FJ392	1/4W 3.9K	2	
R969	ERDS2FJ272	1/4W 2.7K	1	
R974	ERDS2FJ102	1/4W 1K	1	
R975	ERDS2FJ223	1/4W 22K	1	
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	Δ
S901-15	EVQ11G05R	SW	15	
T701	RTP2N5B012	POWER TRANSFORMER	1	ETP76VST71SA
T702	RTP1H3E001	POWER TRANSFORMER	1	$\triangle$
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	

# **17 Cabinet Parts Location**



# 18 Packaging

