# Service Manua Speaker System Active subwoofer **SB-AS500**



Sufix for Model No.	Area.	Colour
(E)	Europe	(K)
(EB)	United Kingdom	

# **Specifications**

SPEAKER SECTION		Input sensitivity/Impedan	<b>ce</b> 335 mV/15 kΩ
Туре	1 way 2 speaker system Bass-reflex type	Low pass filter	50–200 Hz Variable
Speaker		GENERAL	
Woofer	14 cm cone type $ imes$ 2	Power supply	AC 110-127 V/220-240 V, 50/60 Hz
Impedance	1 Ω	Power consumption	40 W
Input power		Dimensions (W $ imes$ H $ imes$ D)	318.6 imes382 imes430 mm
Music	200 W	Weight	10.3 kg
DIN	100 W	-	
Sound pressure level	83 dB/W (1.0 m)	Note:	
Frequency response	38–410 Hz (–16 dB)	Specifications are subject to	o change without notice.
	42–350 Hz (–10 dB)	Weight and dimensions are	e approximate.

### AMPLIFIER SECTION

Continuous power output	
20-200 Hz (THD 1%)	100 W(1 Ω)
Phase switching	NORMAL/REVERSE

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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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## Positioning the Speaker

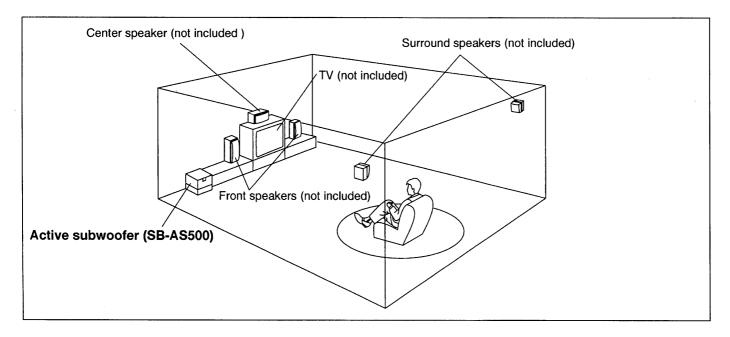
- The subwoofer can be placed in any position as long as it is at a reasonable distance from the TV.
- Do not place any object on top of this unit.

The diagram below shows the basic positioning of each speaker.

This speaker system is designed so as to be able to be used in close proximity to a TV, but irregular coloring may result due to how the system is placed. If such distortion occurs, turn off the TV for between 15 and 30 minutes. The TV's demagnetizing function will eliminate the distortion. If the irregular coloring is still visible, move the speaker further away from the TV.

#### Note:

Do not attach this speaker to walls or ceilings.



# Accessories

 Monaural connection cable .... 1pc. (RJL1P015B50)

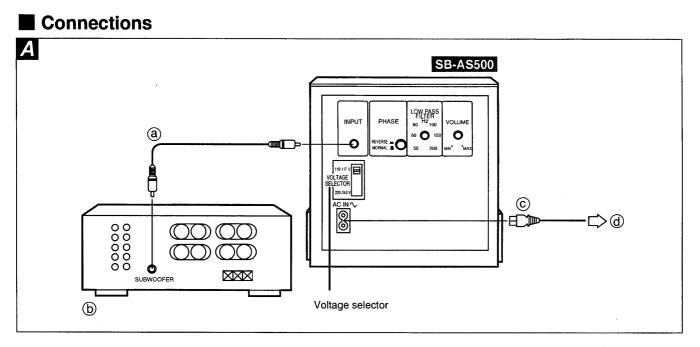


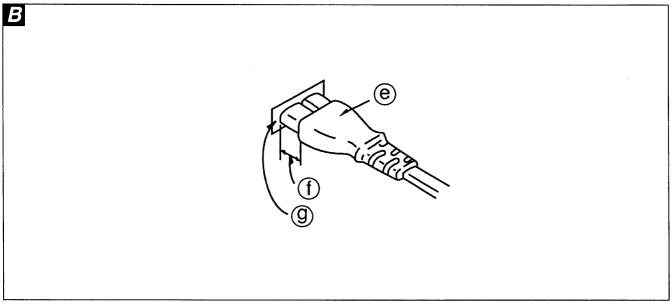
• AC power supply cord ...... 1pc. (RJA0019-2K:For E area)



(RJA0049-2K:For EB area)







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### Connecting to receiver (or amplifier)

#### Note:

- Can be connected to a receiver (or amplifier) with a pin cord type subwoofer terminal.
- Before making the connections, switch OFF the power to the receiver (or amplifier).
- (a) Monaural connection cable (included)
- (b) Receiver (or amplifier) (not included)

### Power connections

Connect power supply cord after all other cables and cords are connected.  $\label{eq:connected}$ 

© AC power supply cord (included)

0 To household AC outlet

#### Voltage selector

Use a flat-head screwdriver to turn the voltage selector on the rear panel to the appropriate position for the area in which this unit is used.

#### Note

This unit will be seriously damaged if this setting is not made correctly.

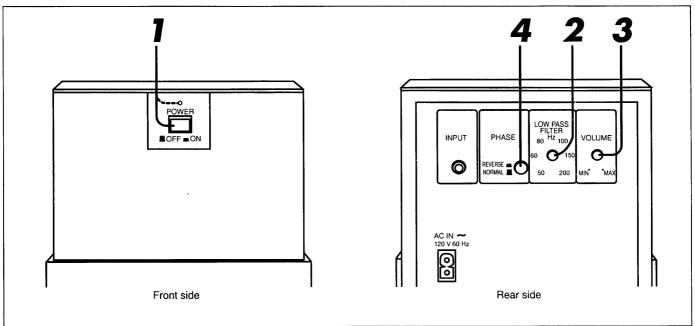
#### Insertion of Connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.

However there is no problem using the unit.

Oconnector ① Approx. 6 mm ② Appliance inlet

# Operation



Set the low pass filter, volume and phase to suit characteristics of the speaker and SB-AS500 combination.

#### 1 Set power to the "- ON" position.

The unit is now in standby mode and the POWER indicator turns red.

When a signal is received, the unit turns ON automatically and the indicator turns green.

The unit automatically switches to standby if a signal is not received for approximately two (2) minutes.

- f 2 Set LOW PASS FILTER to a suitable frequency, refer to "Frequency response by LOW PASS FILTER setting" on the opposite page.
- $m{3}$  Set VOLUME to a suitable level, refer to "Frequency response by VOLUME setting" on the opposite page.
- **4** After sampling some music, set PHASE to ". NORMAL" or " - REVERSE", whichever position allows playback to sound normal.

#### For your reference:

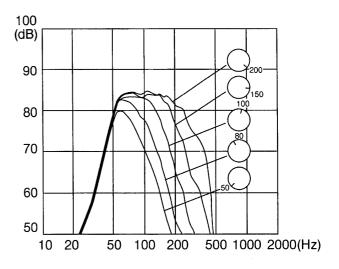
If subwoofer and front speaker phase are the inverse of one another, they will tend to rub each other out. Playback will not be normal and sounds will seem muffled.

#### When settings are complete

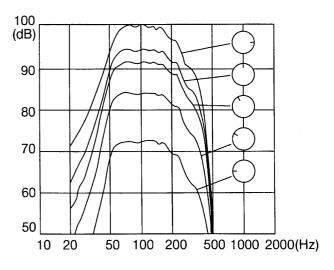
The only operation you should have to perform daily is press POWER to turn the unit ON/OFF.

If you reposition the system and the acoustics change, reset the unit as necessary.

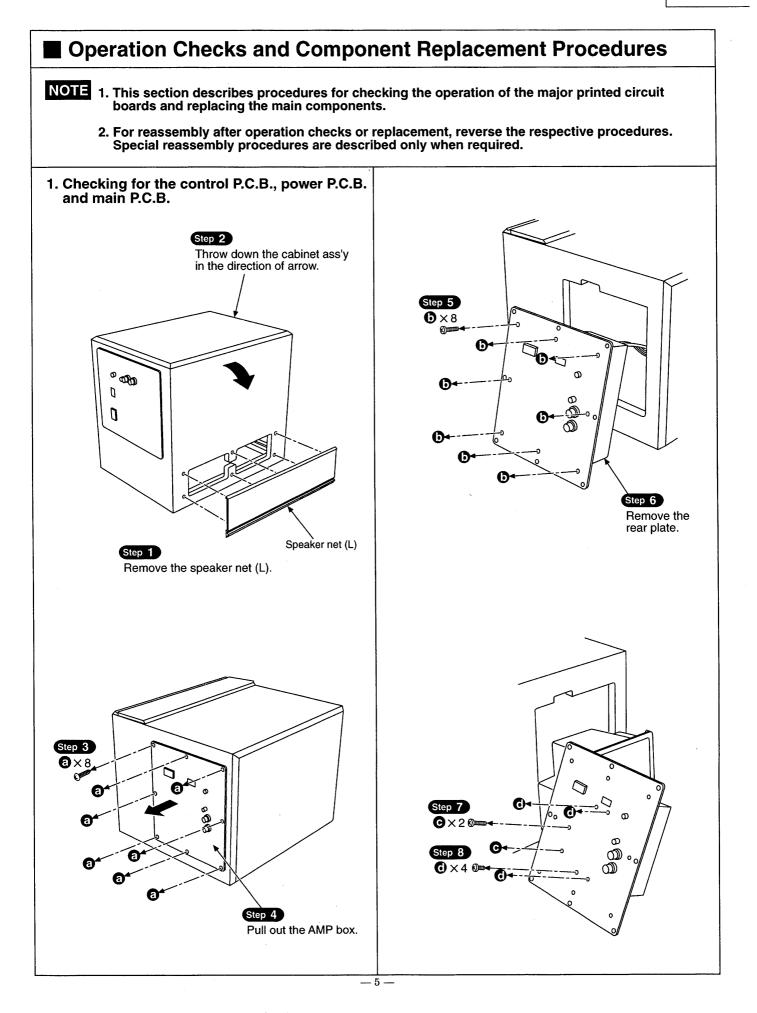
### Frequency response by LOW PASS FILTER setting

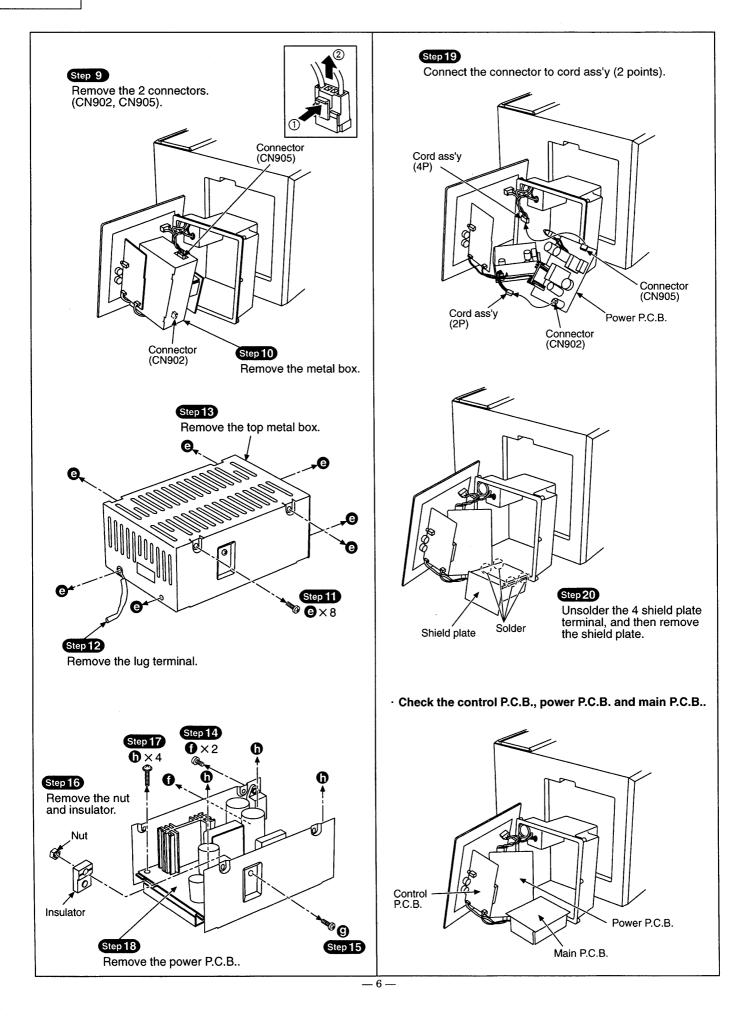


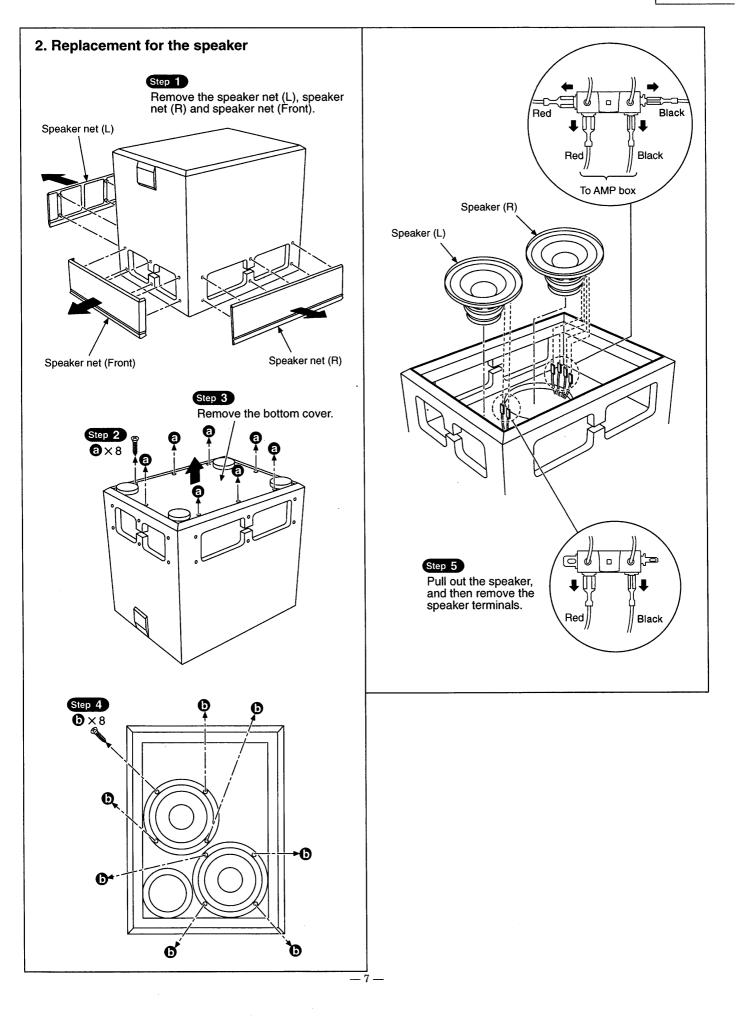
### Frequency response by VOLUME setting

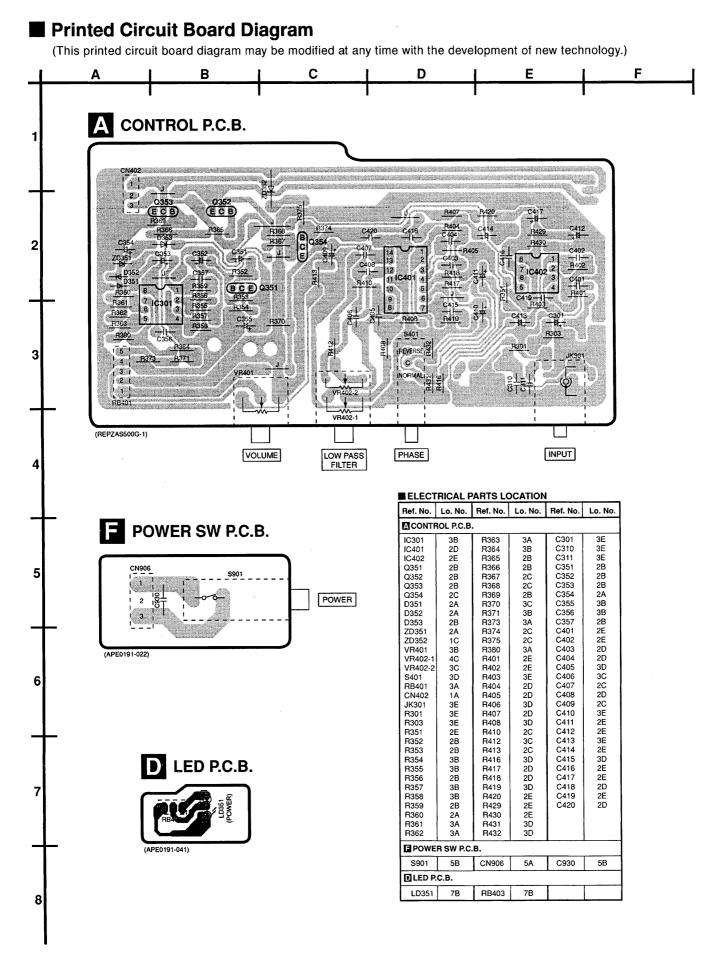


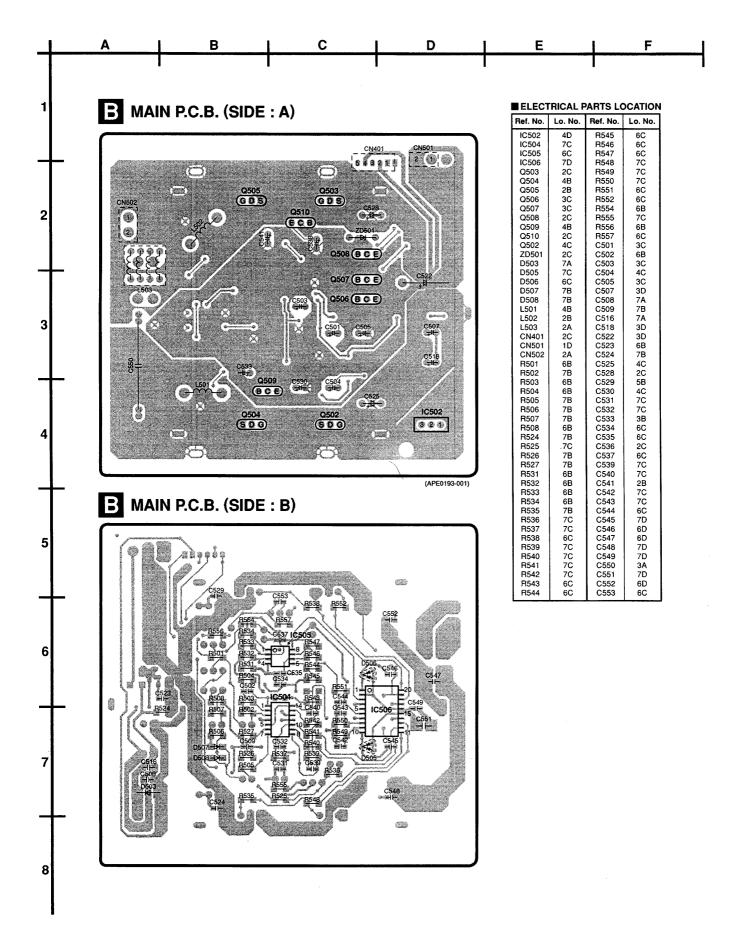
- 4 -

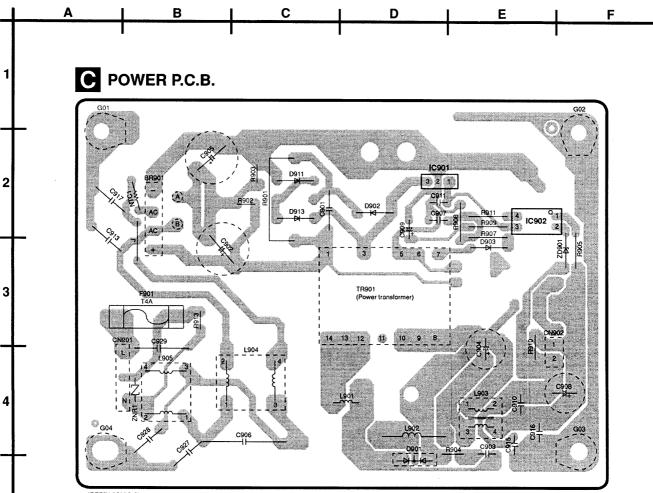












(REPZAS500G-2)

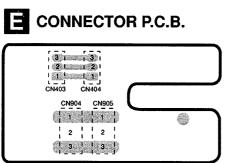
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7

8

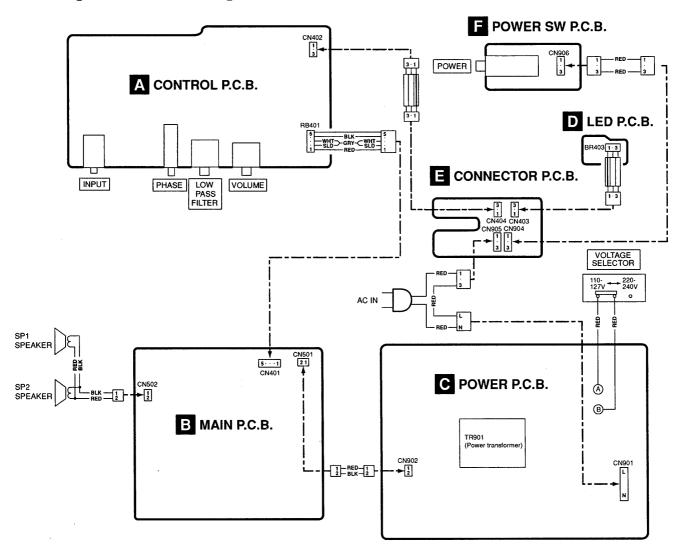
#### **ELECTRICAL PARTS LOCATION**



(APE0191-031)

Def No. Lo No. Def No. Lo No. Def No. Lo No.									
Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.				
POWE	R P.C.B.								
IC901	2D	ZNR1	4B	C906	4C				
IC902	2E	NTC1	2B	C907	2D				
D901	5D	R901	2C	C908	4F				
D902	2D	R902	2C	C909	2D				
D903	3E	R903	2C	C910	4E				
D911	2C	R904	4E	C911	2D				
D913	2C	R905	3F	C913	3A				
ZD901	3F	R907	2E	C915	4E				
L901	4D	R908	2E	C916	4E				
L902	4D	R909	2E	C917	2A				
L903	4E	R910	4E	C927	4B				
L904	4C	R911	2E	C928	4B				
L905	4B	R913	3B	C929	4B				
TR901	3D	C901	2C	G01	1A				
F901	3B	C902	3B	G02	1F				
BR901	2B	C903	4E	G03	4F				
CN901	4B	C904	4E	G04	4A				
CN902	4F	C905	2B						
	ECTOR P.O	с.в.							
CN403	6B	CN904	7B						
CN404	6B	CN905	7B						

### Wiring Connection Diagram



NOTE:
BLK ···· Black
GRY Gray
GRN Green
RED ···· Red
SLD Shield wi
WHT ···· White

# After Repair And Adjustment

After repairs are completed, restore power gradually using a variac, to avoid overcurrent. Current consumption at 50Hz in NO SIGNAL mode should be shown below with respect to supply voltage 127/240V.

Voltage selector range	Supply voltage	Current consumption		
110–127V	127V (50Hz)	about 104mA		
220–240V	240V (50Hz)	about 87mA		

### Protection Circuitry

This unit incorporates speaker-protection circuits to prevent damage caused by excessive input or abnormal signals. When excess input is detected, the input is automatically interrupted.

### If sound is interrupted...

1. Reduce the volume level from the receiver or amplifier.

- 2. Check whether or not there is anything wrong with the equip ment used such as the sound source, or connections.
  - If there is nothing wrong, turn off the power.
- 3. Turn on the power once again.

After the protection circuitry is reset...

Take care not to increase the receiver's or amplifier's volume level too much.

# Schematic Diagram

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

Notes:

- S401 : PHASE selector switch in "NOM" position.
  - $(NOM \leftrightarrow REV)$
- S901 : POWER switch in "OFF" position.
- VR401 : VOLUME adjustment.
- VR402 : LOW PASS FILTER adjustment.
- Signal line
  - : POSITIVE VOLTAGE LINE

• Important safety notice:

Components identified by  $\triangle$  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

#### Caution!

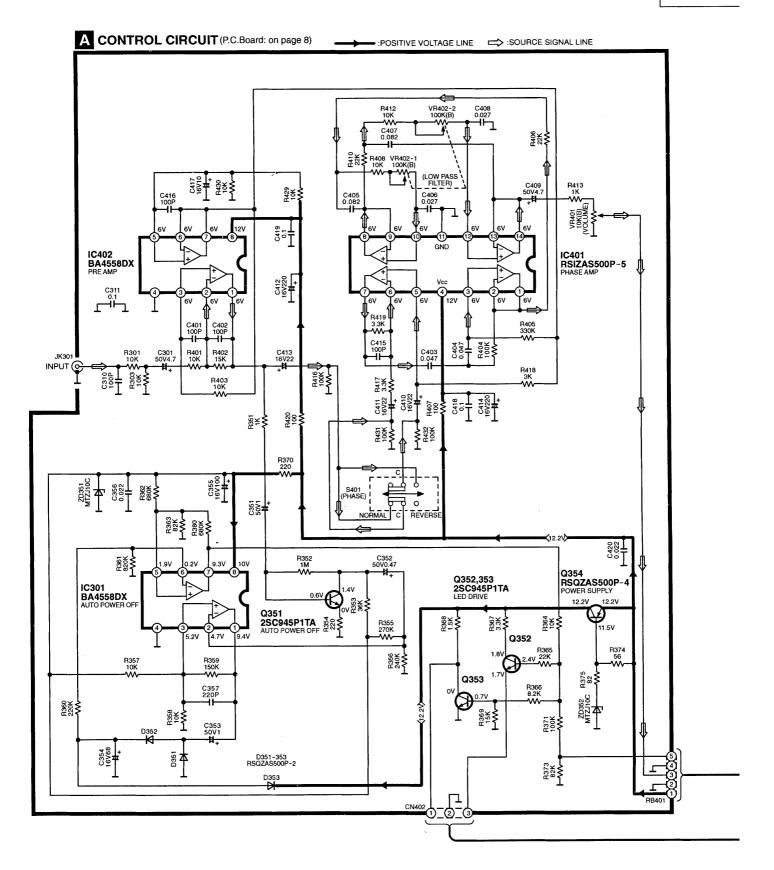
IC and LSI are sensitive to static electricity.

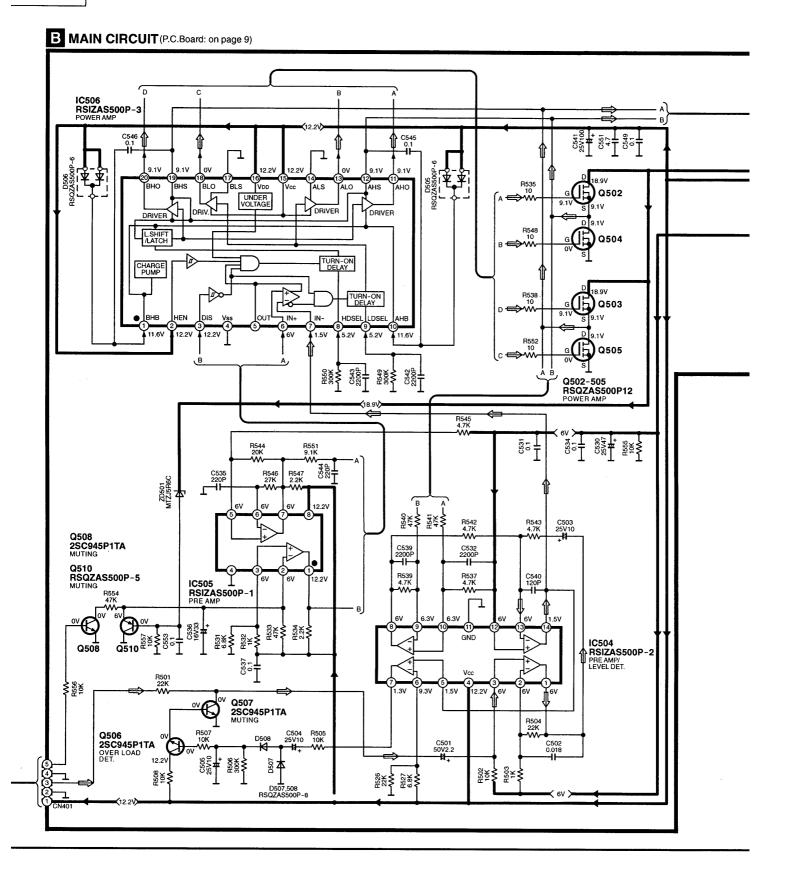
Secondary trouble can be prevented by taking care during repair.

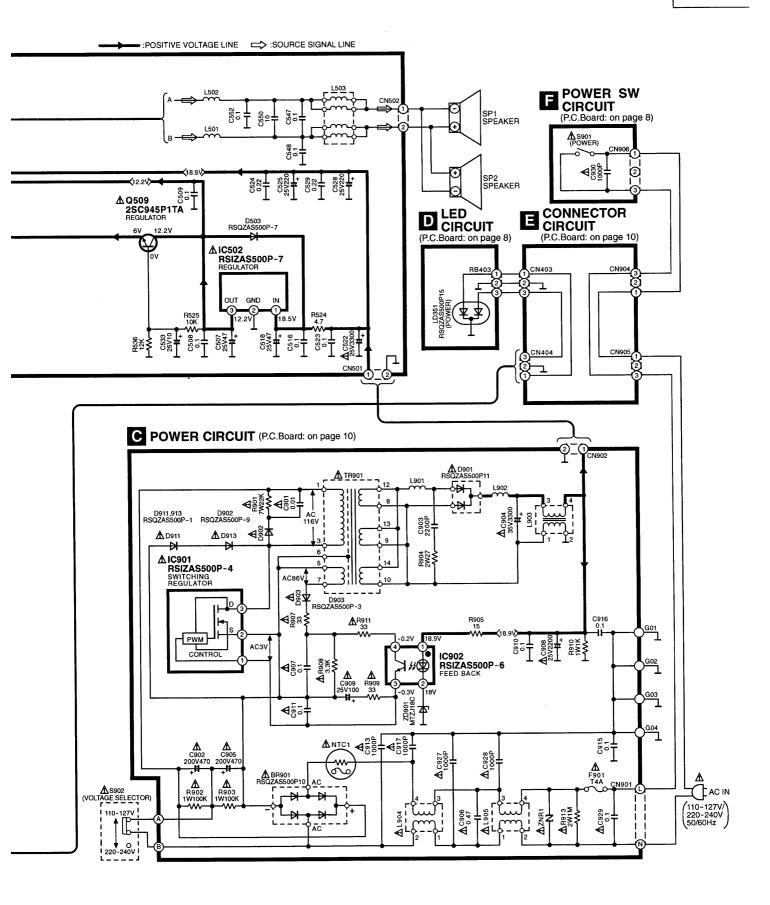
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC or LSI with fingers directly.

### • Type Illustraiton of IC's, Transistors and Diodes

BA4558DX	RSIZAS500P-5	RSIZAS500P-1	RSIZAS500P-2	RSIZAS500P-3	RSIZAS500P-7
8 <b>1</b>	14 manual and the second secon	1 4 5	14		123
RSIZAS500P-4	RSIZAS500P-6	2SC945P1TA RSQZAS500P-4 RSQZAS500P-5	RSQZAS500P12	RSQZAS500P15	RSQZAS500P10
RSQZAS500P-2 RSQZAS500P-3	MTZJ18C MTZJ10C MTZJ5R6C	RSQZAS500P-6	RSQZAS500P-8	Cathode A - Oto-A Ca RSQZAS500P11	RSQZAS500P-9 Cathode
Anode RSQZAS500P-1	A Cathode	Anode Anode	Anode A Ca	Cathode Anode A - D + N - A Ca	Anode Ca
Anode	RSQZAS500P-7 Cathode				







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### Replacement Parts List (Electrical)

#### 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 manufacturer's specified parts shown in the parts list.

- \*Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF), F=Farads (F)
- \*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)

*	The narts	indicated "MESA" in			<b>▲</b> C909	ECA1EM101	25V 100U	1	MESA
	nic parts				C910	RCUZAS500P-2	63V 0. 1U	1	MESA
		y MESA. And other	pa	ints are supplied by	<b>▲</b> C911	RCUZAS500P-2	63V 0. 1U	1	MESA
	MAES.				<b>▲</b> C913	RCUZAS500P14	250V 1000P	1	MESA
					C915, 16	RCUZAS500P-2	63V 0. 1U	2	MESA
					<b>▲</b> C917	RCUZAS500P14	250V 1000P	1	MESA
					A C927, 28	RCUZAS500P14	250V 1000P	2	
					<b>▲ C929</b>	RCUZAS500P15	250V 0. 1U	1	MESA
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	<b>▲ C930</b>	RCUZAS500P17	250V 1000P	1	MESA
								<u> </u>	
ABR901	RSQZAS500P10	DIODE	1	MESA	CN401	RJP5G18ZA	CONNECTOR (5P)	1	MESA
					CN402-04	SJT3319	CONNECTOR (3P)	3	
C301	ECEA1HKA4R7B	50V 4.7	1	MESA	CN501, 02	RJP1A3202	CONNECTOR (2P)	2	MESA
C310	ECKT1H101KB	50V 100P	1	MESA	CN901	RJP1A4204	CONNECTOR (2P)	1	
0311	ECFR1H104ZF	50V 0. 1U	• 1	MESA	CN902	RJP1A5302	CONNECTOR (2P)	1	MESA MESA
C351	ECEA1HKS010	50V 1U	1	MESA	CN904-06	RJP1A4103	CONNECTOR (3P)	3	
C352	ECEA1HKAR478	50V 0. 47U	1	MESA					MESA
C353	ECEA1HKS010	50V 1U	1	MESA	D351-53	RSQZAS500P-2	DIODE	3	MEGA
C354	RCEZAS500P-1	16V 68U	1	MESA	D503		DIODE		MESA
C355	ECEA1CKS101	16V 100U	1	MESA	D505, 06	RSQZAS500P-6		1	MESA
C356	ECKT1H223ZF	50V 0. 022U	1 1	MESA	D507, 08			2	
0357	ECKT1H221KB	50V 220P					DIODE	2	
C401, 02	ECKT1H101KB	50V 100P	2	MESA	▲ D901		DIODE	1	MESA
C403, 04	ECQB1H473JF3	50V 0.047U	2	MESA	▲ D902		DIODE	1	MESA
C405	ECOB1H823JF3	50V 0.082U	1	MESA	▲D903		DIODE	1	MESA
C408			· · ·	MESA	▲D911		DIODE	1	MESA
C408	ECOB1H273JZ	50V 0.027U	1	MESA	▲D913	RSQZAS500P-1	DIODE	1	MESA
C408	ECOB1H823JF3	50V 0. 082U	1	MESA	L				-
	ECOB1H273JZ	50V 0. 027U	1	MESA	▲ F901	XBA2C40TB0	FUSE, 250V T4A	1	MESA
C409	ECEA1HKA4R7B	50V 4.7U	1	MESA					
C410, 11	ECEA1CKS220	16V 22U	2	MESA	10301	BA4558DX	10	1	MESA
C412	ECA1CM221	16V 220U	1	MESA	10401	RSIZAS500P-5	10	1	MESA
C413	ECEA1CKS220	16V 22U	1	MESA	10402	BA4558DX	10	1	MESA
C414	ECA1CM221	16V 220U	1	MESA	A 10502	RSIZAS500P-7	10	1	MESA
C415, 16	ECKT1H101KB	50V 100P	2	MESA	10504	RSIZAS500P-2	10	1	MESA
<u>C417</u>	ECEA1CKS100	16V 10U	1	MESA	10505	RSIZAS500P-1	10	1	MESA
C418, 19	ECFR1H104ZF	50V 0. 1U	2	MESA	10506	RS1ZAS500P-3	10	1	MESA
C420	ECKT1H223ZF	50V 0. 022U	1	MESA	A 10901	RSIZAS500P-4	10	1	MESA
C501	RCUZAS500P11	50V 2. 2U	1	MESA	10902	RSIZAS500P-6	10	1	MESA
C502	ECUV1H183KBN	50V 0. 018U	1	MESA					
C503-05		25V 10U	3	MESA	JK301	RJJZAS500P-2	JACK, INPUT	1	MESA
C507	RCUZAS500P10	25V 47U	1	MESA					IIIEOA
C508, 09	ECUV1H104ZFN	50V 0.1U	2	MESA	L501, 02	RLQZAS500P-5	COIL	2	MESA
C516	ECUV1H104ZFN	50V 0. 1U	1	MESA	L503		COIL	1	MESA
C518	RCUZAS500P10	25V 47U	. 1	MESA	L901		COIL	1	MESA
<b>∆</b> C522	ECA1EM332	25V 3300U	1	MESA	L902	the second s	COIL		MESA
C523	ECUV1H104ZFN	50V 0.1U	1	MESA	L903		COIL		MESA
C524	ECUV1H224ZFM	50V 0. 22U	1	MESA		RLFZAS500P-1	COIL		MESA
C525	RCUZAS500P-9	25V 220U	1	MESA	▲L905		COIL	-	
C528	RCUZAS500P-9	25V 220U	1	MESA	<u> </u>				MESA
C529	ECUV1H224ZFM	50V 0. 22U		MESA	LD351	RSQZAS500P15	LED		
C530	RCUZAS500P10	25V 47U	1	MESA		N342/13300F13			MESA
		50V 0.1U	1	MESA	A NTO1	DCOTACEOOD14			
C532	····	50V 2200P			ANTC1	RSQZAS500P14	FUSE RESISTOR	_1	MESA
		25V 10U		MESA	0051 50	0000011110	7044010700		
C534		50V 0.1U	+	MESA MESA		2SC3311AR	TRANSISTOR	3	MESA
C535		50V 220P	1				TRANSISTOR	_1	MESA
C536	RCUZAS500P-6			MESA			TRANSISTOR	4	MESA
C537			ᆜ	MESA		2SC3311AR	TRANSISTOR	3	MESA
C539		50V 0. 1U	1	MESA	▲ 0509	2SC3311AR	TRANSISTOR	1	MESA
0008	ECUV1H222ZFN	50V 2200P	1	MESA	Q510	RSQZAS500P-5	TRANSISTOR	1	MESA
								_	

Ref. No.

C540

C541

C544

C550

C551

A C901

<u>∧</u> C902

▲ C904 ▲ C905

▲ C906 ▲ C907

**∆** C908

C903

C542, 43

C545-49

C552, 53

Part No.

ECUV1H121KV

ECUV1H221KV

RCUZAS500P-8 25V

ECUV1H222ZFN 50V

ECUVIHIO4ZEN 50V

RCUZAS500P-1 6V

ECUV1H104ZFN 50V

RCUZAS500P12 1KV

RCUZAS500P-5 200V

RCUZAS500P-3 100V

RCUZAS500P13 35V

RCUZAS500P-5 200V

RCUZAS500P16 250V

RCUZAS500P-2 63V

25V

ECA1EM222

RCUZAS500P-4 100V

50V

50V

Part Name & Description

120P

1000

2200P

220P

0. 1U

100

4. 7U

0, 10

0. 01U

4700

2200P

33000

470U

0. 47U

0. 1U

22000

Remarks

MESA

Pc

1

1

2

1

5

1

1

2

1

1

1

1

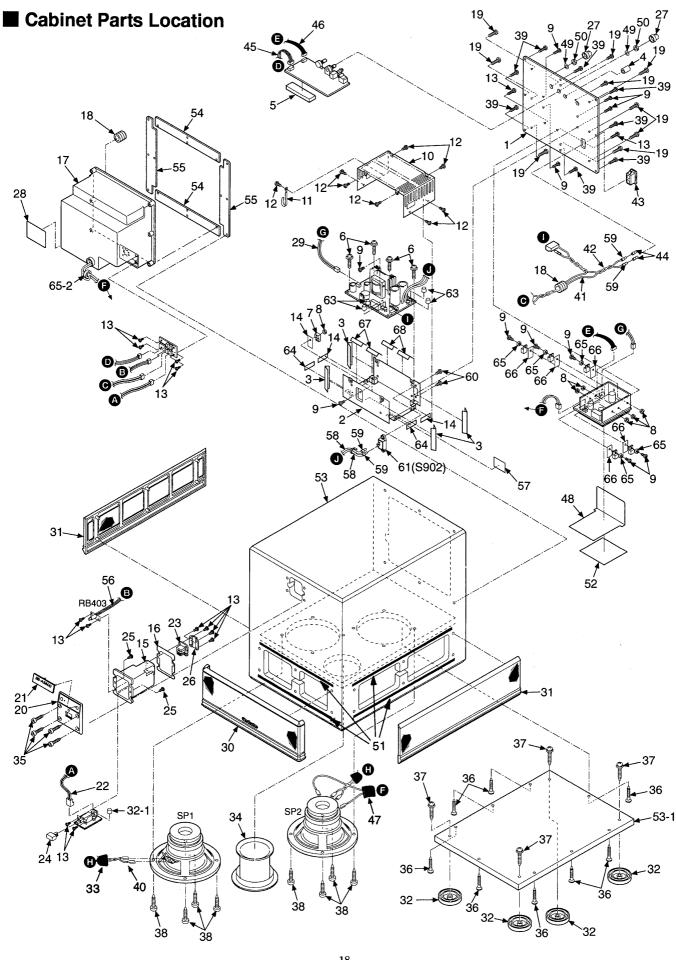
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1

1

								-	
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R301	ERDS2FJ103	1/6W 10K	1	MESA	R555-57	ERJ8GEYJ103V	1/8W 10K	3	MESA
R303	ERDS2FJ103	1/6W 10K	1	MESA	<b>▲</b> R901	RREZAS500P-5	7W 22K	1	MESA
R351	ERDS2FJ102	1/6W 1K	1	MESA	AR902, 03	RREZAS500P-7	1W 100K	2	MESA
R352		1/6W 1W	1	MESA	R904	RREZAS500P-4	2W 27	1	MESA
R353	ERDS2FJ363	1/6W 36K	1	MESA	R905	RREZAS500P-1	1/4W 15	1	MESA
R354	ERDS2FJ221	1/6W 220	1	MESA	<b>▲</b> R907	RREZAS500P-3	1/4W 33	1	MESA
R355	ERDS2FJ274	1/6W 270K		MESA	AR908	RREZAS500P-2	1/4₩ 3.3K	1	MESA
R356		1/6W 240K	$\frac{1}{1}$	MESA	<b>▲</b> R909	RREZAS500P-3	1/4W 33	1	MESA
		1/6W 10K	2	MESA	R910	RREZAS500P-6	1W 1K	1	MESA
R359	ERDS2FJ154	1/6W 150K		MESA	▲R911	RREZAS500P-3	1/4₩ 33		MESA
	ERDS2FJ154		1-:	MESA	AR913	RREZASSOOP-8	2W 1M	+	MESA
R360		1/6W 220K	+		CT Kalo	RRELASSOUP-0	20 10		MESA
R361		1/6W 820K	+ - !	MESA	6401	D007405000-1	SW, PHASE	1	MESA
R362		1/6W 680K	+-!	MESA	\$401	RSPZAS500P-1			MESA
R363		1/6W 82K	1	MESA	▲ \$901	RSPZAS500P-2	SW, POWER		MESA
R364	ERDS2FJ103	1/6W 10K	11	MESA					1/504
R365	ERDS2FJ223	1/6W 22K	1	MESA	SP1, 2	EAST14PL09B6	WOOFER	2	MESA
R366	ERDS2FJ822	1/6W 8.2K	1	MESA					11504
R367	ERDS2FJ332	1/6. 3.3K	1	MESA	▲TR901	RTPZAS500P-1	POWER TRANSFORMER	1	MESA
R368	ERDS2FJ152	1/6W 1.5K	1	MESA		L			
R369	ERDS2FJ153	1/6W 15K	1	MESA	VR401	RRVZAS500P-1		1	MESA
R370	ERDS2FJ221	1/6₩ 220	1	MESA	VR402	RRVZAS500P-2	V.R., LOW PASS FILTER	1	MESA
R371	ERDS2FJ104	1/6W 100K	1	MESA					
R373	ERDS2FJ823	1/6W 82K	1	MESA	ZD351, 52	MTZJ10C	DIODE	2	
R374	ERDS2FJ560	1/6W 56	1	MESA	ZD501	MTZJ5R6C	DIODE	1	MESA
R375	ERDS2FJ820	1/6W 82	1	MESA	ZD901	MTZJ18C	DIODE	1	MESA
R380	ERDS2FJ684	1/6W 680K	1	MESA		1			
R401	ERDS2FJ103	1/6W 10K	1	MESA	<b>∆</b> ZNR1	RSQZAS500P13	SURGE ABSORBER	1	MESA
R402	ERDS2FJ153	1/8W 15K	$+\frac{1}{1}$	MESA		1		Ļ,	1
R403	ERDS2FJ103	1/6W 10K	+	MESA	<b></b>	1		$\vdash$	<u> </u>
- R404	ERDS2FJ104	1/6W 100K	+	MESA				⊢	
R405	ERDS2FJ334	1/6W 330K	$+\frac{1}{1}$	MESA				-	
R405				MESA					
	ERDS2FJ223		+	MESA					
R407	ERDS2FJ101	1/6W 100	+						
R408	ERDS2FJ103	1/6W 10K	+!	MESA					
R410	ERDS2FJ223	1/6W 22K	1	MESA		+		_	
R412	ERDS2FJ103	1/6W 10K	1	MESA					
R413	ERDS2FJ102	1/6W 1K	1	MESA				1_	
R416	ERDS2FJ104	1/6W 100K	1	MESA					
R417	ERDS2FJ332	1/6W 3.3K	1	MESA			· · · · ·		
R418	ERDS2FJ302	1/6W 3K	1	MESA					
R419	ERDS2FJ332	1/6W 3.3K	1	MESA					
R420	ERDS2FJ101	1/6W 100	1	MESA					
R429, 30	ERDS2FJ103	1/6W 10K	2	MESA					
R431, 32	ERDS2FJ104	1/6W 100K	2	MESA					
R501	ERJ8GEYJ223V	1/8W 22K	1	MESA				$\mathbf{T}$	1
R502	ERJ8GEYJ103V	1/8W 10K	1	MESA			T	1	T
R503	ERJ8GEYJ102V	1/8W 1K	1	MESA				1	
R504	ERJ8GEYJ223V	1/8W 22K						1	
R505	ERJ8GEYJ103V		+					+-	
R506	RRJZAS500P-5	and the second se		MESA				+-	
		and the second se		· · · · · · · · · · · · · · · · · · ·	ļ			╋	
R507, 08 R524	ERJ8GEYJ103V ERJ8GEYJ4R7V			· · · · · · · · · · · · · · · · · · ·				+-	
				MESA				+	
R525	ERJ8GEYJ103V			MESA				+	
R526	ERJ8GEYJ223V		-	MESA				+	
R527	ERJ8GEYJ682V						·}	+	
R531	ERJ8GEYJ682V							+	
R532	ERJ8GEYJ102V						·	1	
R533	ERJ8GEYJ473V	and the second	1		L	-			1
R534	ERJ8GEYJ222V		1					1	
R535	RRJZAS500P-3	1/8W 10		MESA					<u> </u>
R536	ERJ8GEYJ123V	1/8W 12K		MESA				ſ	
R537	RRJZAS500P-1	1/8W 4.7K	ŀ	MESA				Γ	
R538	RRJZAS500P-3	1/8W 10		MESA				Γ	
R539	RRJZAS500P-1	1/8W 4.7K	-	MESA				Т	
R540, 41	RRJZAS500P-2							T	1
R542, 43	RRJZAS500P-1							$\uparrow$	1
R544	RRJZAS500P-4		$\pm$	the second se		1		+	
R545	ERJ8GEYJ472V				<b> </b>			+	
R546	ERJ8GEYJ273V				<b> </b>	+	+	+	
R546	ERJ8GEYJ273V		+	inite di t		+		+	+
			_			+		╋	
R548	RRJZAS500P-3							╀	
R549, 50	RRJZAS500P-5			2 MESA				+-	
R551	RRJZAS500P-6		_					1	
R552	RRJZAS500P-3		_					1	-
R554	ERJ8GEYJ473V	1/8W 47K	_	MESA					
			Γ						
						1		Γ	

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SB-AS500
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# Replacement Parts List (Cabinet)

Notes: • The parts indicated 'MESA' in Remarks column are supplied by MESA.

• Important safety notice: Components identified by  $\Delta$  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.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	
					36	XTN42+32FG	SCREW	8	
1	RGGZAS500G-1	REAR PLATE	1	MESA	37	XTBS31BZ+22	SCREW	4	MESA
2	RMKZAS500P-2	METAL BOX (BOTTON)	1	MESA	38	XTNP42+20FG	SCREW	8	MESA
3	RMGZAS500P11	SPONGE	4	MESA	39	XTNP42+20FG	SCREW	8	MESA
4	RGUZAS500P-1	KNOB	1	MESA	40	REXPM300W	CORD ASS' Y	1	MESA
5	RIIGZAS500P-2	CUSHION	1	MESA	41	REXZAS500P-4	CORD ASS' Y	1	MESA
6	XTW3+8L	SCREW	4	MESA	42	REXZAS500P-5	CORD ASS' Y	1	MESA
7	RINRZAS500P-4	INSULATOR	1	MESA	43	RJJZAS500G-1	AC SOCKET	1	MESA
8	XWG3B	NUT	6	MESA	44	RWZZAS500G-1	TUBE	2	MESA
9	XSN3+8BVS	SCREW	11	MESA	45	REXZAS500P-6	CORD ASS' Y	1	MESA
10	RIKZAS500P-1	METAL BOX (TOP)	1	MESA	46	REXZAS500P-7	CORD ASS' Y (RB401)	1	MESA
11	RINQZAS500P-8	LUG TERMINAL	1	MESA	47	REXZAS5006-3	WIRE ASS' Y	1	MESA
12	XSN3+6FZ	SCREW	8	MESA	48	RSCZAS500P-1	SHIELD PLATE	1	MESA
13	XTN3+10JFZ	SCREW	14	MESA	49	XWS7AW	WASHER	2	2 MESA
14	RMGZAS500P-7	SPONGE	3	MESA	50	XNS7S	NUT	2	2 MESA
15	RKSZAS500P-2	FRONT COVER	1	MESA	51	RMPQP0517	HIMERON	6	MESA
16	RMGZAS500P-5	CUSHION	1	MESA					
17	RKSZAS500P-1	REAR COVER	1	MESA	52	RMGZAS500P-6	CUSHION	1	MESA
18	RMRZAS500P-2	BUSHING	2	MESA	53	RYK0825A-K	CABINET ASS' Y	1	MESA
19	XTN3+12GFZ	SCREW	9	MESA	53-1		BOTTOM COVER	1	MESA
20	RGPZAS500P-1	FRONT PANEL	1	MESA	54	RMGZAS500P-3	CUSHION	2	2 MESA
21	RGKZAS500P-1	NAME PLATE	1	MESA	55	RMGZAS500P-4	CUSHION	2	2 MESA
22		CORD ASS' Y	1	MESA	56	REXZAS500P-8	CORD ASS' Y (RB403)	1	MESA
23		BUSHING	1	MESA	57	ROLZAS500P-3	CAUTION LABEL	1	MESA
24	RGU0890-K	POWER KNOB	1	MESA	58	REXZAS500G-9	CORD ASS' Y	2	2 MESA
25	XTN26+5JFZ	SCREW	2	MESA	59	RWZZAS500G-2	TUBE	4	MESA
26		BACK COVER	1	MESA	60	XSN3+12FZ	SCREW	2	2 MESA
27		KNOB	2	MESA	61	RSSZAS500G-1	SW, VOLTAGE SELECTOR (S902)	1	MESA
28		CAUTION LABEL	1	MESA	62	RLBZAS500G-1	BEAD FZRIT	1	MESA
29	REXZAS500P-2	CORD ASS' Y	1	MESA	63	RWZZAS500G-3	TUBE	:	5 MESA
30	RYB188B	SPEAKER NET (FRONT)	11	MESA	64	RINGZAS500P-8	SPONGE	1	2 MESA
31	RYB189A	SPEAKER NET (SIDE)	2	MESA	65	RMRZAS500P-6	WASHER	1	5 MESA
32	BKA0053-A	FOOT	4	MESA	66	RMRZAS500P-5	SI RUBBER		5 MESA
33	RMQP0583	HIMERON	$t_{1}$	MESA	67	RMGZAS500P-9	SPONGE		2 MESA
34	BKTW500	TUNE PORT ASS' Y	$\frac{1}{1}$	MESA	68	RMGZAS500P10			2 MESA
35	SNES4+20FG	SCREW		MESA	SP1/SP2	EAST14PL09B6	WOOFER		2 MESA

# Replacement Parts List (Accessories & Packing)

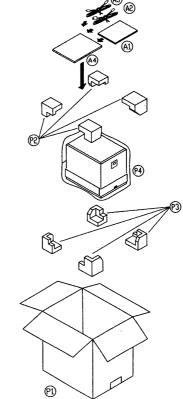
Notes: • Important safety notice:

Components identified by  $\Delta$  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 parts indicated 'MESA' in Remarks column are supplied by MESA. And other parts are supplied by MAES.

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG4637	CARTON BOX (E)	[MAES]
P1	RPG4638	CARTON BOX (EB)	[MAES]
P2	SPSPW500CD	PAD UP	[MAES]
P3	SPSPW500AB	PAD DOWN	[MAES]
P4	SPHP35060	SHEET (170Cm)	[MAES]
A1	RQT4628-E	INSTRUCTION BOOK	[MAES]
A2 🛆	RJA0019-2K	AC MAINS LEAD (E)	[MAES]
A2 🛆	RJA0049-2K	AC MAINS LEAD (EB)	[MAES]
A3	RJL1P015B50	MONOAURAL CABLE	[MAES]
A4	XZBA4	PLASTIC BAG	[MAES]

# Packaging



And other parts are supplied by MAES.

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