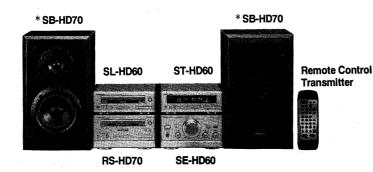
ORDER NO. AD9702022C2 Service Manua Amplifier

Amplifier

System: SC-HD60



SE-HD60

Colour (N) Gold

Area (E)Europe. (EG) Germany and Italy.

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

Specifications

Amplifier Section

Power output

DIN 1 kHz, THD 1 %, both channel driven: 2 × 45 W (6 ohm) RMS 1 kHz, THD 10 %, both channel driven: 2 × 60 W (6 ohm) **Total harmonic distortion** Rated power at 1 kHz: 1 % (6 ohm)

Half power at 1 kHz: 0.09 % (6 ohm)

Load impedance: 6 ohm

S/N (rated power): 90 dB

General

Power consumption: 100 W **Power supply**

[for (E,EG) area]: 230 V, AC 50Hz Dimensions: 196(W)/103(H)/255(D) mm Weight: 4.1 kg

Notes:

- 1. Specifications are subject to change without notice.
- 2. Weight and dimensions are approximate.
- 3. Total harmonic distortion is measured by the digital specrum analyzer.

System/SC-HD60:

Tuner: ST-HD60, Compact Disc Player: SL-HD60, Amplifier: SE-HD60, Cassette Deck: RS-HD70, Speakers: SB-HD70 Notes: * Made in PAES

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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Contents

Accessories2
Before Repair
Protection Circuitry
Location of Controls
Installation4
Connections
Changing the Tone7
Convenient Functions
Operation Checks and
Main Component Replacement Procedures
Wiring Connection Diagram10

	Page
To Supply Power Source	
Type Illustration of ICs, Transistors and Diodes	
Schematic Diagram	12 ~ 17
Printed Circuit Board Diagram	18 ~ 20
Block Diagram	21, 22
Replacement Parts List (Electrical)	23, 24
Resistors and Capacitors	25, 26
Replacement Parts List	
(Cabinet, Packing and Accessories)	
Cabinet Parts Location	
Packaging	29

Accessories

(RJA0019-2K)



(RAK-CH193WH)

Page



(RFA0737-R)



 Remote control batteries 2 pcs. (UM-4, "AAA", R03) Note: These are available on sales route.



• FM indoor antenna...... 1 pc. (RSA0007)



• Flat cable (Long thin) 1 pc. (REX0813)



• AM loop antenna set (RSA0021) AM loop antenna 1 pc. Antenna holder with stand 1 pc.





• Flat cable (short) 1 pc. • Flat cable (Long thick) 1 pc. (REX0812)

Antenna holder without stand 1 pc.

Screw 1 pc.



(REX0608)



Before Repair

- (1) Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C715 ~ C718) 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 V.

Area	(E) (EG)	
Power supply voltage	AC 230 V	
Consumed current 50 Hz	60 ~ 180 mA	

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.

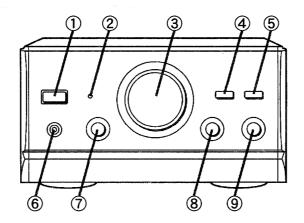
The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used. If this occurs, follow the procedure outlined below:

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

Note:

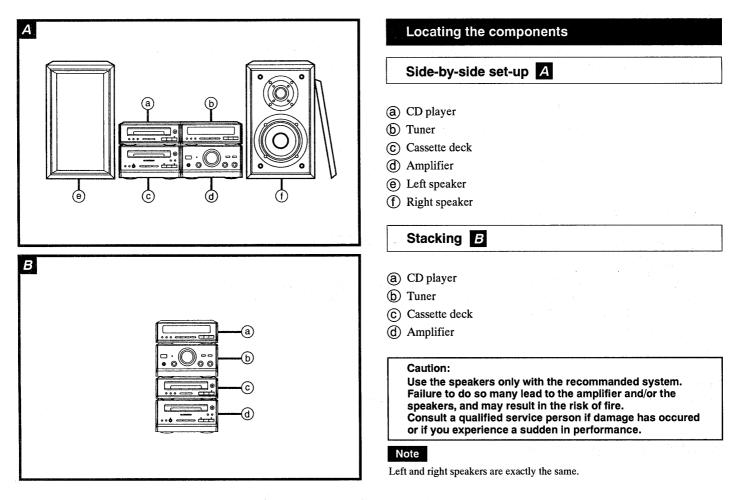
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

Location of Controls



- Power "STANDBY U/ON" switch (POWER, STANDBY U/ON) 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 (STANDBY) When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is terned on.
- **③ Volume control (VOLUME)**
- **④** Source direct button (SOURCE DIRECT)
- **(5)** Vocal presence button (VOCAL PRESENCE)
- 6 Headphones jack (PHONES)
- 7 Balance control (BALANCE)
- (8) Bass control (BASS)
- **9** Treble control (TREBLE)

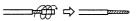
Installation

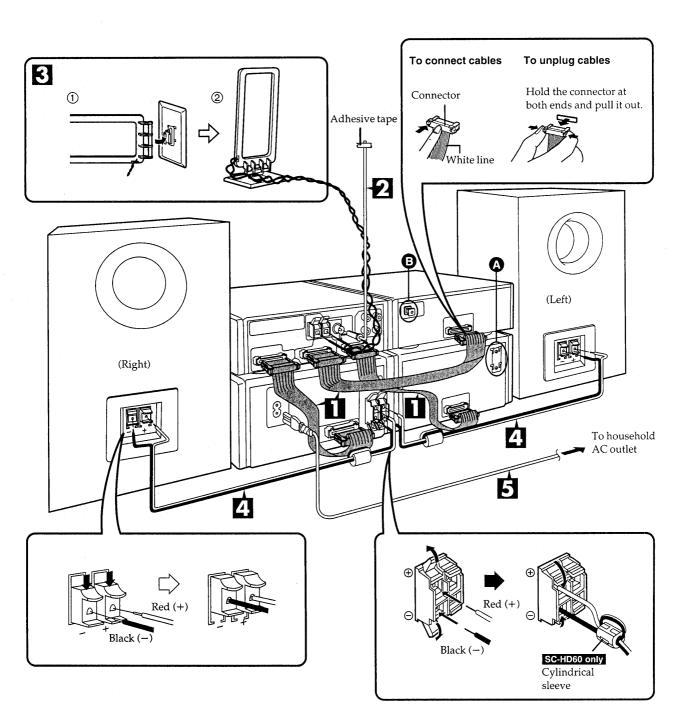


■ Connections

Connect the AC mains lead after you have connected all other cables.

To prepare the AM loop antenna wire and speaker cords, twist the vinyl cover tip and pull off.





Connect the flat cables.

- Connect the short flat cable between the terminals A1 and A2.
 Connect the long thick flat cable between the terminals B1 and B2.
- 3. Connect the long thin flat cable between the terminals C1 and C2.

Note

Do not try connecting or disconnecting the flat cables while the power is switched to ON.

After connection:

Keep cables as flat against the back of the unit as possible.

Connect the FM indoor antenna.

Tape the antenna to a wall or column, in a position where radio signals are received with the least amount of interference.

Note

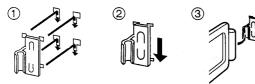
When you cannot get a good reception with this FM indoor antenna, we recommend you install an FM outdoor antenna (not included).

Connect the AM loop antenna.

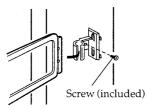
You can also install the AM loop antenna on the rear of the cassette deck, wall or pillars.

In this case, be sure to use the antenna holder with the hole.

• To install on the cassette deck rear (A)



•To install on walls or pillars



Note

To minimize noise pickup, bundle the loop antenna cord using a tape or so to keep the flat cables away from the AM loop antenna cord. Connect the right (R) and left (L) front speaker cables.

Note

- For SC-HD60 connect the end of the speaker cable with the cylindrical sleeve to the amp side.
- •To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.
- Be sure to connect only positive (red) wires to positive (+) terminals and negative (black) wires to negative (-) terminals.

These speakers are made so as to be able to be used in close proximity to the TV, but irregular coloring may result due to how the system is placed. If such distortion occurs, turn off the TV for sometime between 15 and 30 minutes. The demagnetizing function of the TV will eliminate the distortion. If the irregular coloring is still visible, then move the speaker further away from the TV. Please note that if there is a magnetic object near the TV, irregular coloring may result due to the interaction between the TV and the speakers.

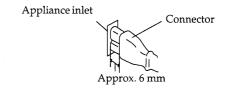
Connect the AC mains lead.

(United Kingdom only) BE SURE TO READ THE CAUTION FOR AC MAINS LEAD ON PAGE 4 BEFORE PROCEEDING TO STEP 5.

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.

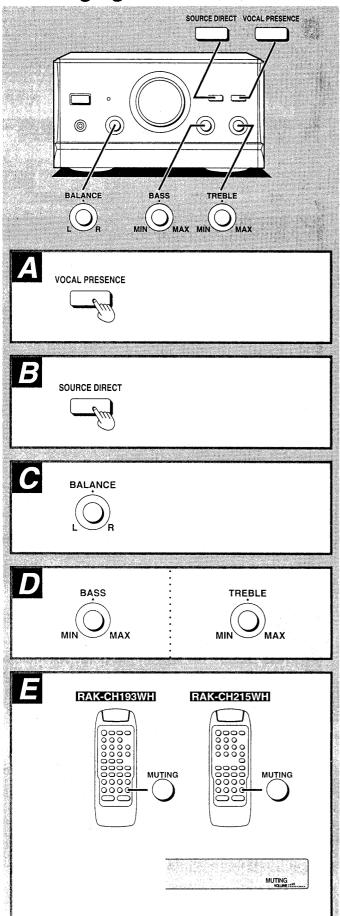
However there is no problem using the unit.



Connections to "DIGITAL OPTICAL OUT" terminal: (3)

Before using this terminal, take out the dust protection cap. Connect an optical-fiber cable to the optical input terminal of the DCC or minidisc deck (cables and components not included).

Changing the Tone



Listening with Vocal Presence

A

С

E

Press VOCAL PRESENCE.

The button will light up. Vocal Presence accentuates midrange sounds to make voices stand out. (Vocal Presence cannot be used at the same time as SOURCE DIRECT.)

To cancel

Press VOCAL PRESENCE again.

For clearer sound

Press SOURCE DIRECT.

The button will light up. Voice signals will not be fed through the tone control circuit, so you get a clearer sound. (You cannot adjust BASS or TREBLE when using SOURCE DIRECT.)

To cancel

Press SOURCE DIRECT again.

To adjust the sound balance

Turn BALANCE to adjust the left/right sound balance.

Note

The effect works only with playback. It cannot be used in recording.

To adjust the tone quality

Turn BASS to adjust the low-frequency sound.

Turn TREBLE to adjust the high-frequency sound.

Note

The effect works only with playback. It cannot be used in recording.

Convenient Functions

To mute the volume

This feature is convenient when you have a telephone call, etc.

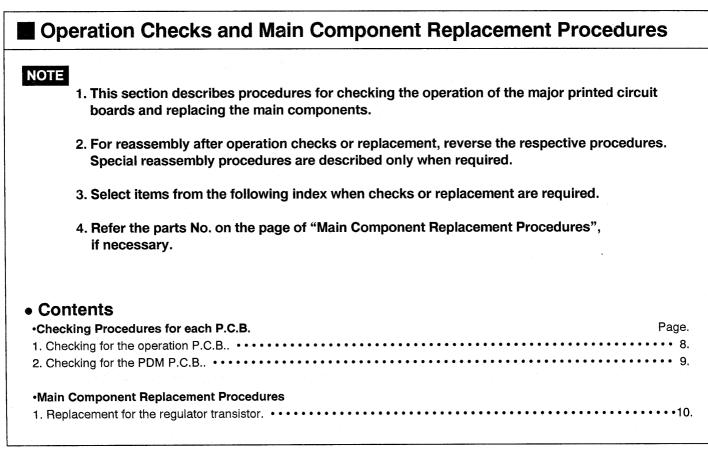
by remote control only Press MUTING.

"MUTING" will light.

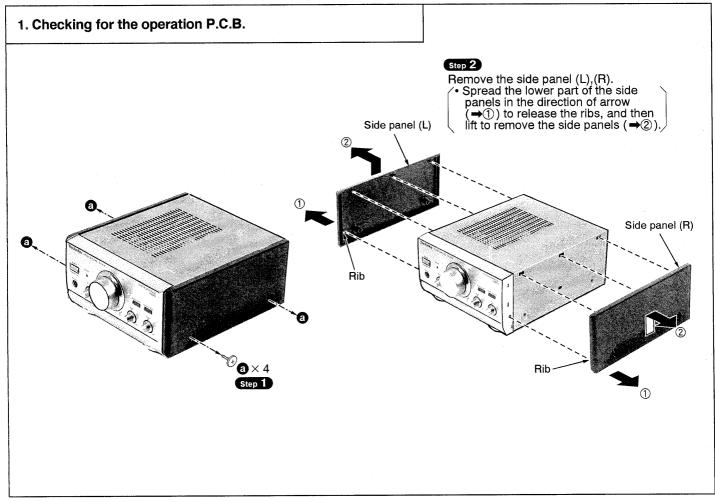
To cancel, press MUTING once again. ("MUTING" goes out.) To cancel from the amplifier, reduce the volume level to the minimum position (-- dB) and then reset to the desired volume.

For your reference:

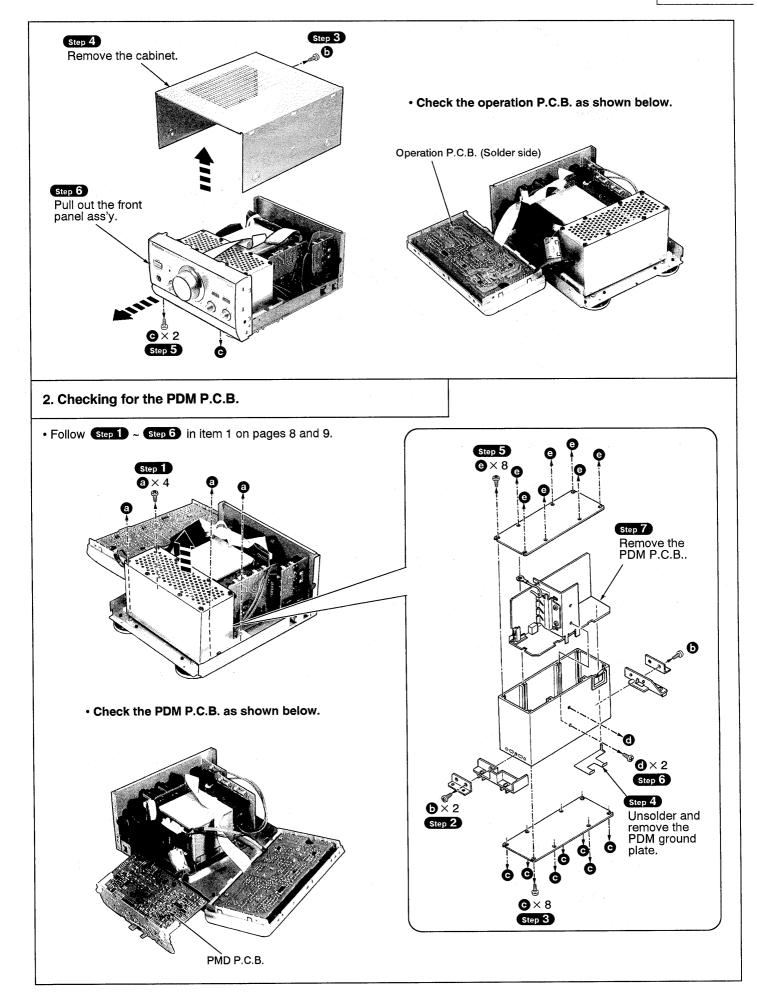
When the system is turned off, the muting operation will be automatically canceled.



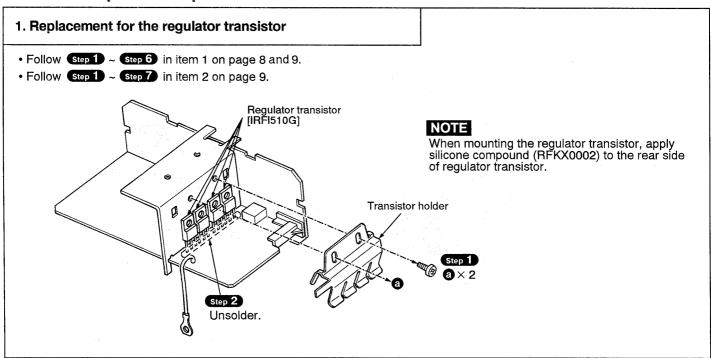
Checking Procedure for each P.C.B.



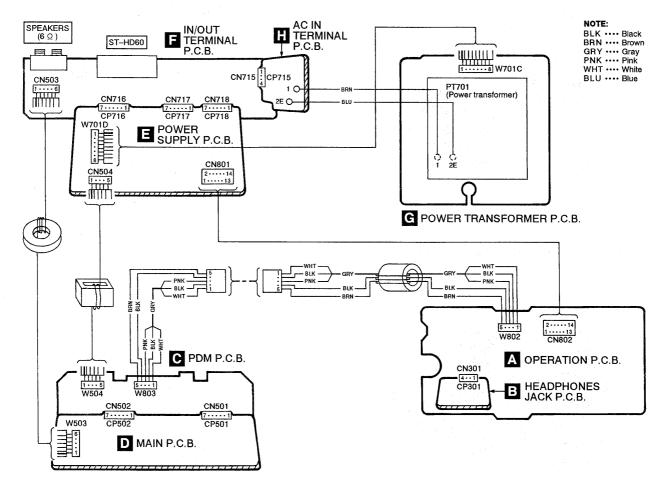
- 8 -



Main Component Replacement Procedures



Wiring Connection Diagram



To Supply Power Source

This unit SE-HD60 is not operate normally without connecting the unit ST-HD60. When operate the unit SE-HD60, be sure to connect the unit ST-HD60 with included connection cable.

AF Oscillator 1. Connect the tuner ST-HD60 to this unit SE-HD60. 2. Connect the AC power supply cord. 3. Connect the speakers to speaker input terminal. Ð e Ð 4. Press the power switch. J321 R-ch input TUNER J320 (ST-HD60) GND JK201 A1 J319 ଚ୍ଚିଚ୍ଚ L-ch input AC IN Π Speaker Terminal MD (EXT) input terminal

■ Type Illustration of ICs, Transistors and Diodes

No.1	M5218AFPE3 M5219FPTA TC7WU04FT12L TC7W08FTE12L TC9215AFEL	8PIN 8PIN 8PIN 8PIN 16PIN	IR2112	NJM2114D	TC74HC00AFT1 TC74HC74AFEL
IRFI510G	2SD2137PQTA		1 2SC3312RSTA 2SC3311AIRTA UN4111AITA UN4115TA	2SB1218BTX 2SB792RSTTX 2SD1819RTX	7 2SD2144STA
MA8033LTX Anode Cathode	Ca Anode	B MA165TA Ca Cathode Anode	Ca A Catho Anode	1N5402BF RL1N4003N02 D1NL20U-4084	MA111TX Anode Cathode
A Ca Catho	MA4120HTA MA4150HTA MA4150HTA	MA185TA Ca Ariode	Anode LNJ201LPQJA LNJ301MPUJAD		

Schematic Diagram

15, 16
17
17

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

Notes:

- S801 : Power "STANDBY Φ /ON" switch (POWER, STANDBY Φ /ON)
- S802 : Source direct switch (SOURCE DIRECT)
- S803 : Vocal presence switch (VOCAL PRESENCE)
- 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

Dago

Important safety notice:

Components identified by A 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.

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.

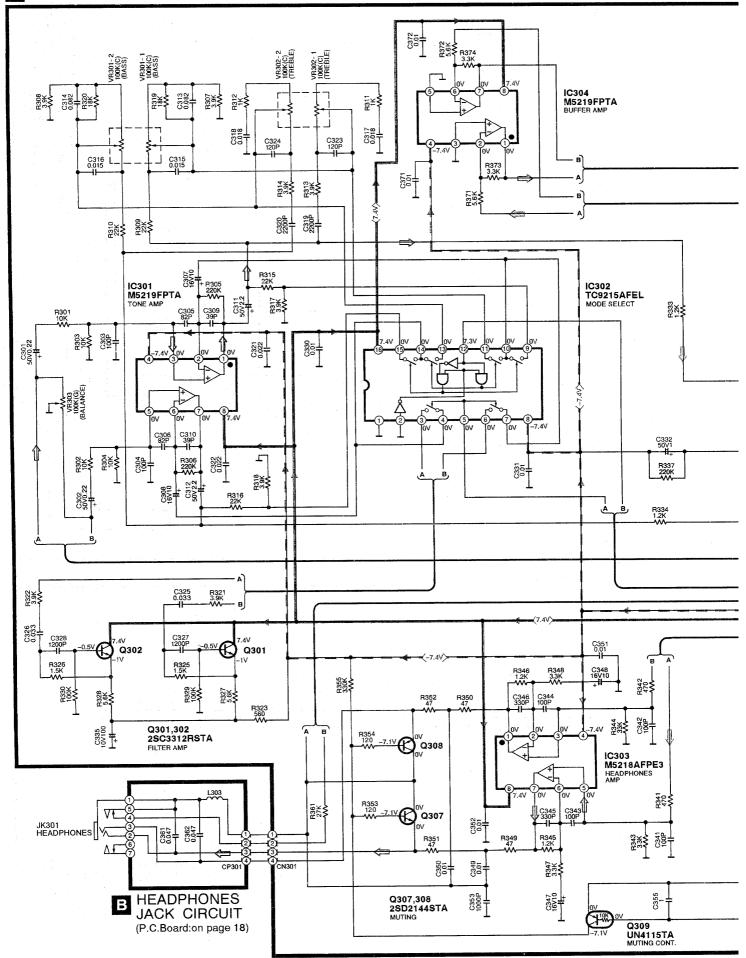
• Voltage and signal line

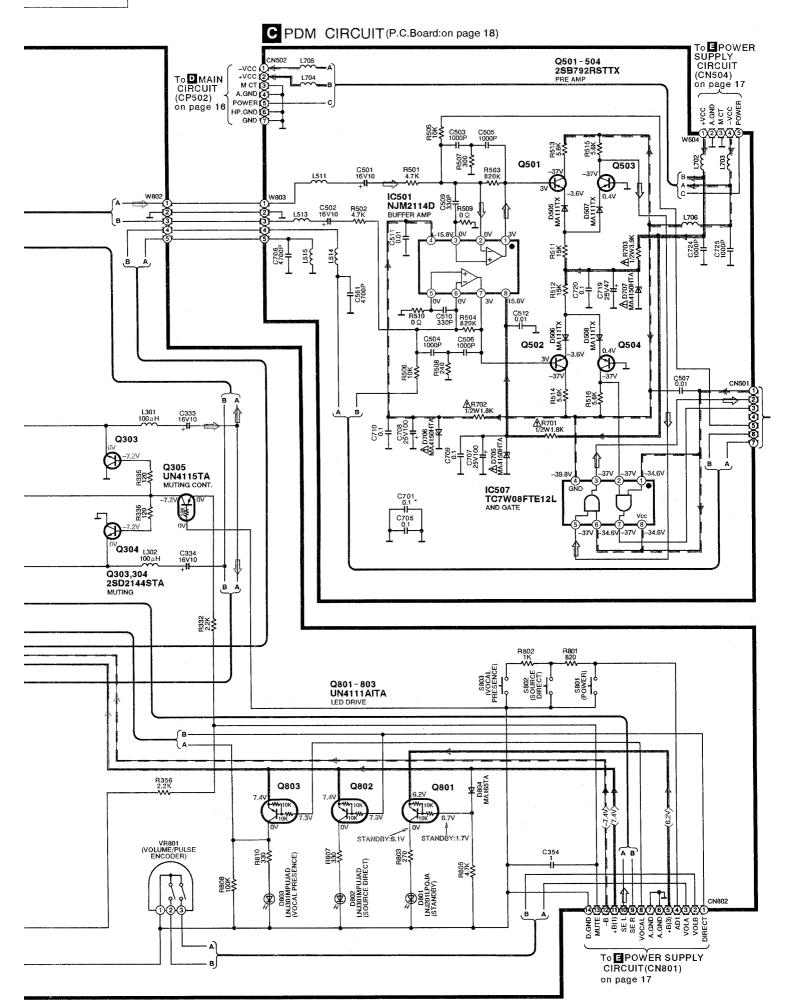
: Positive voltage line

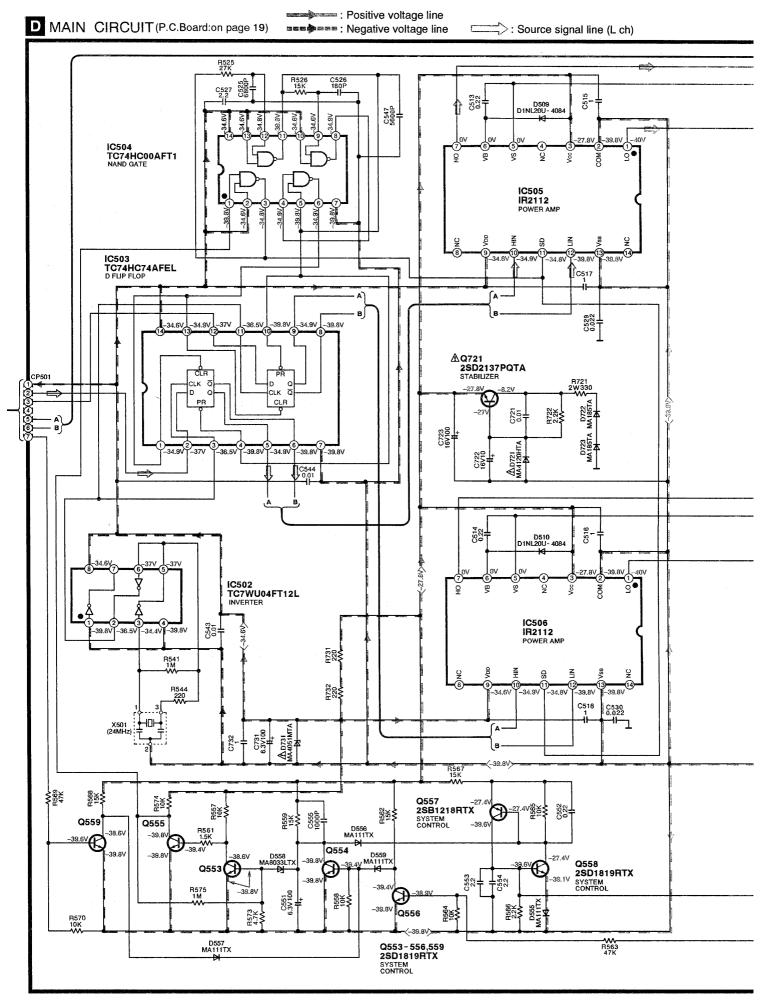
Base Base : Positive voltage line

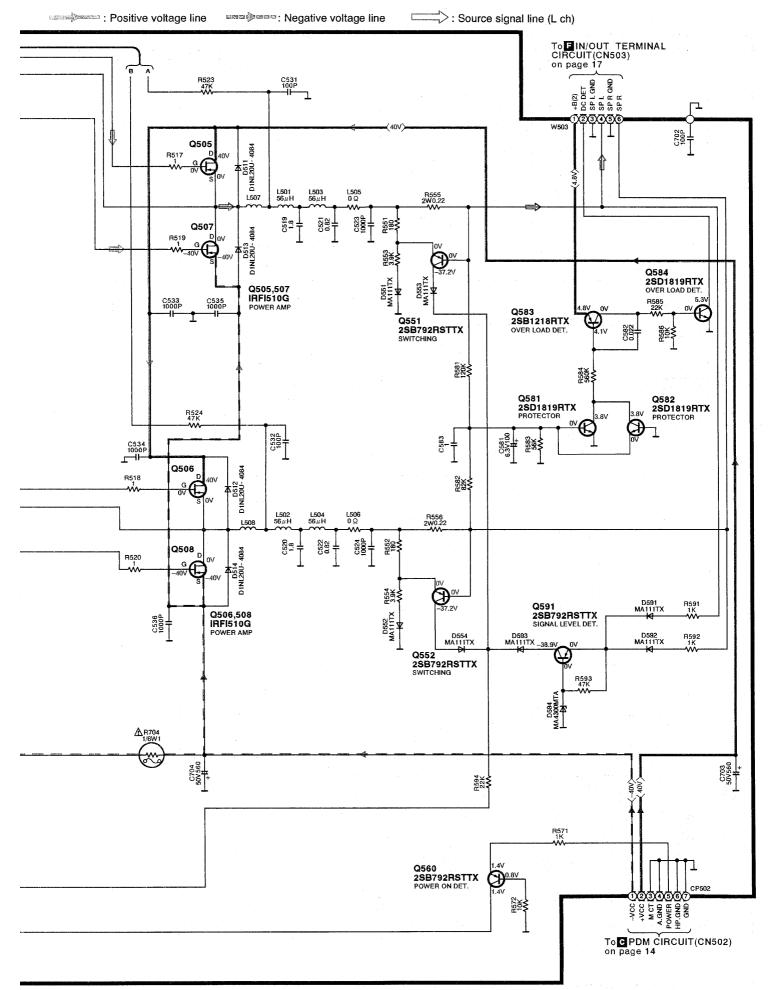
: Source signal line (L ch)

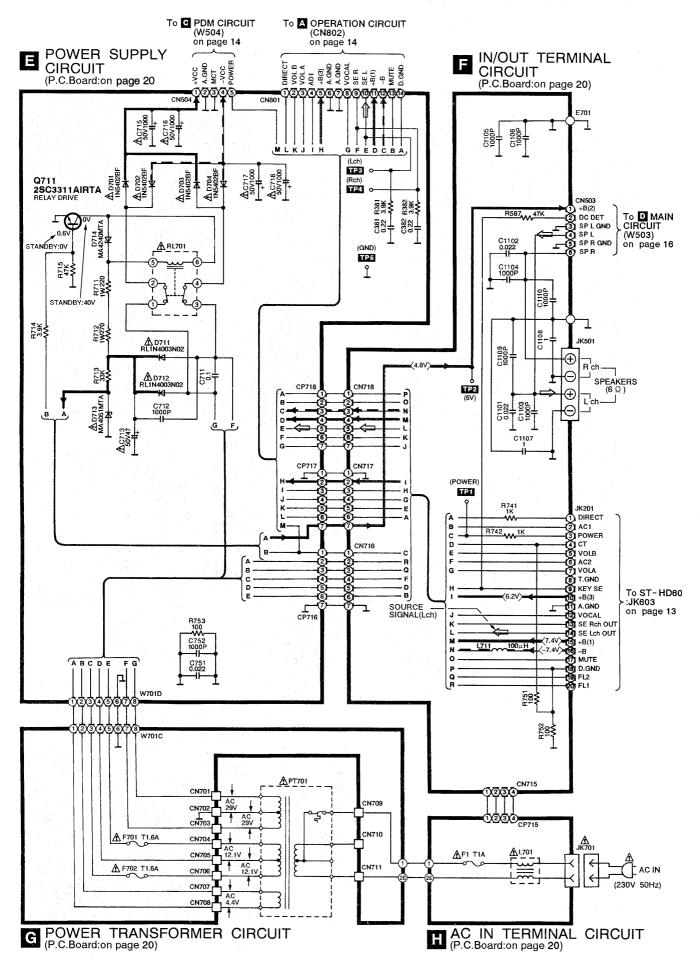
A OPERATION CIRCUIT (P.C.Board:on page 18)





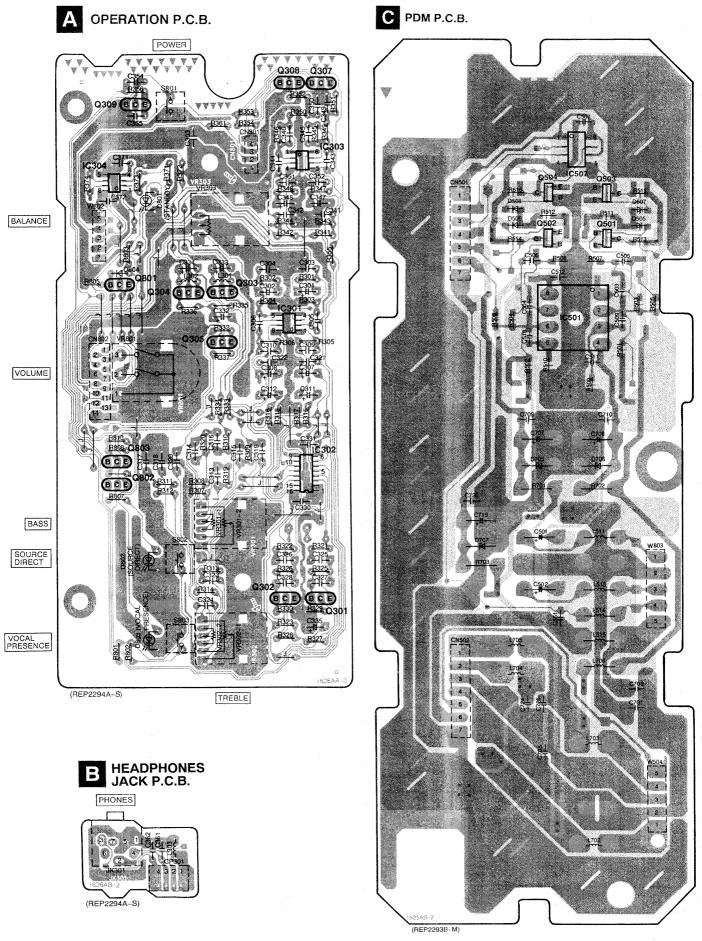


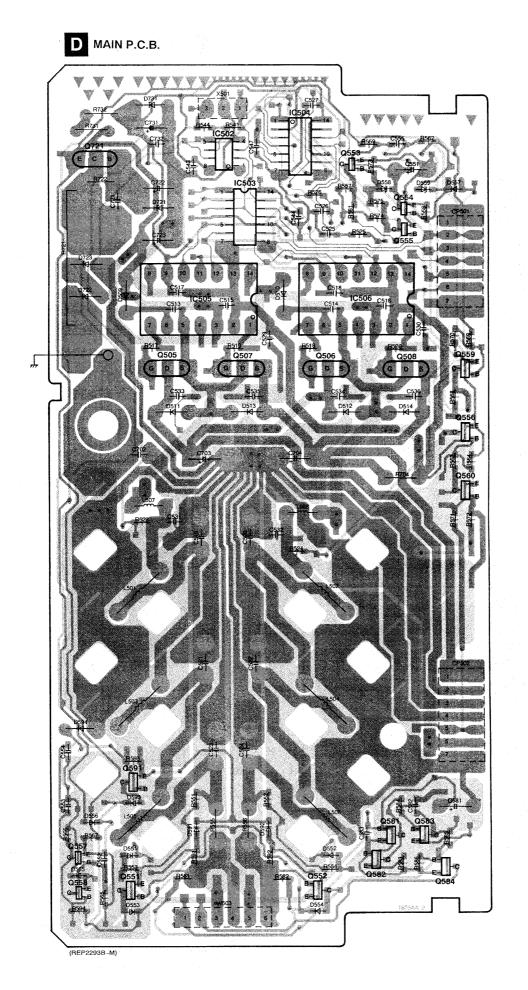


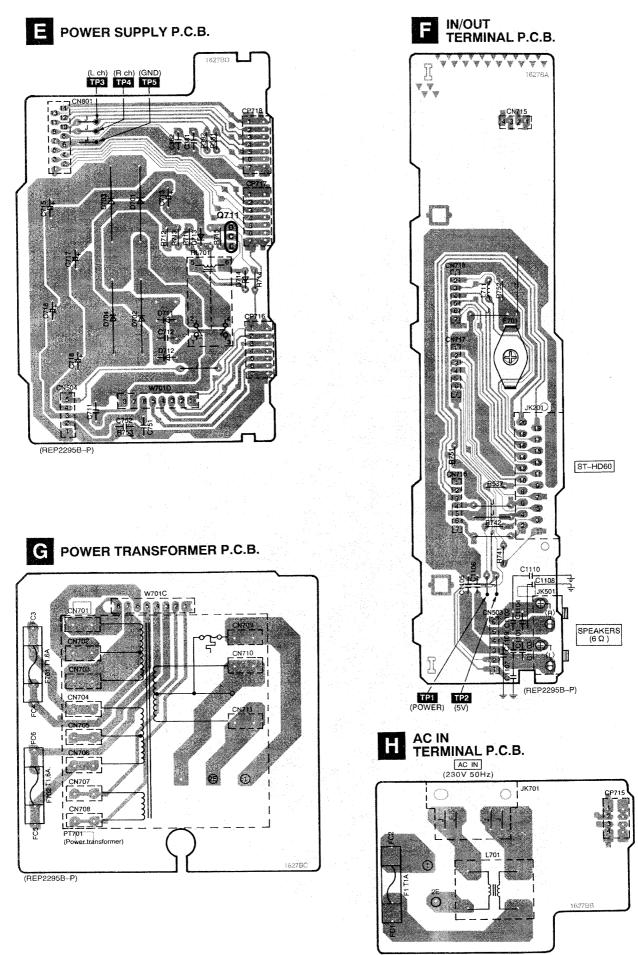


Printed Circuit Board Diagram

• This circuit board diagram may be modified at any time with the development of new technology.

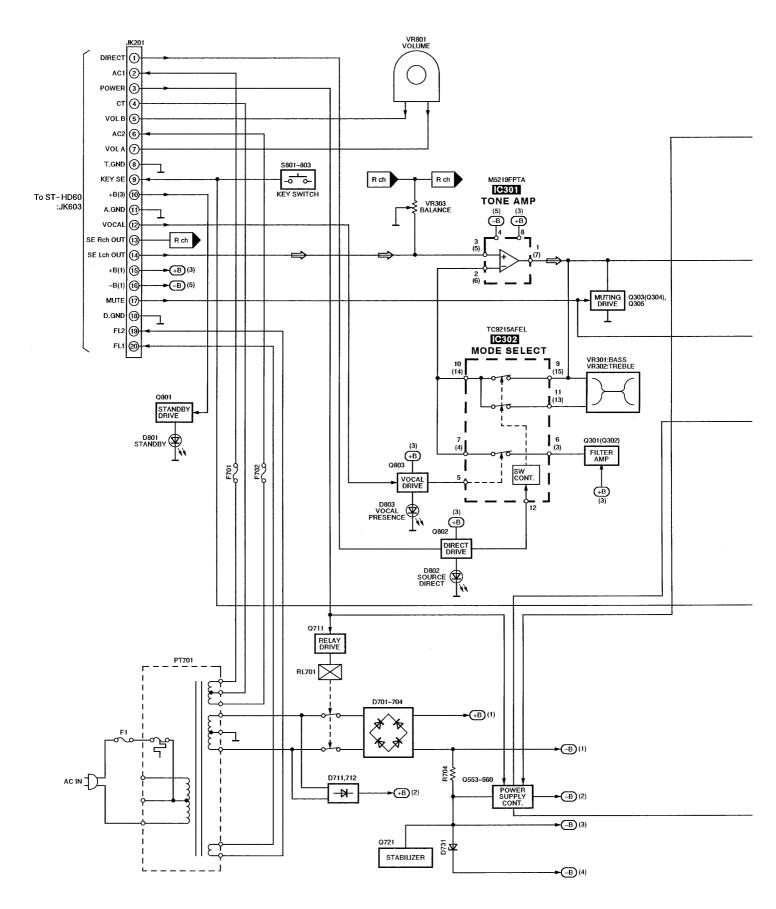


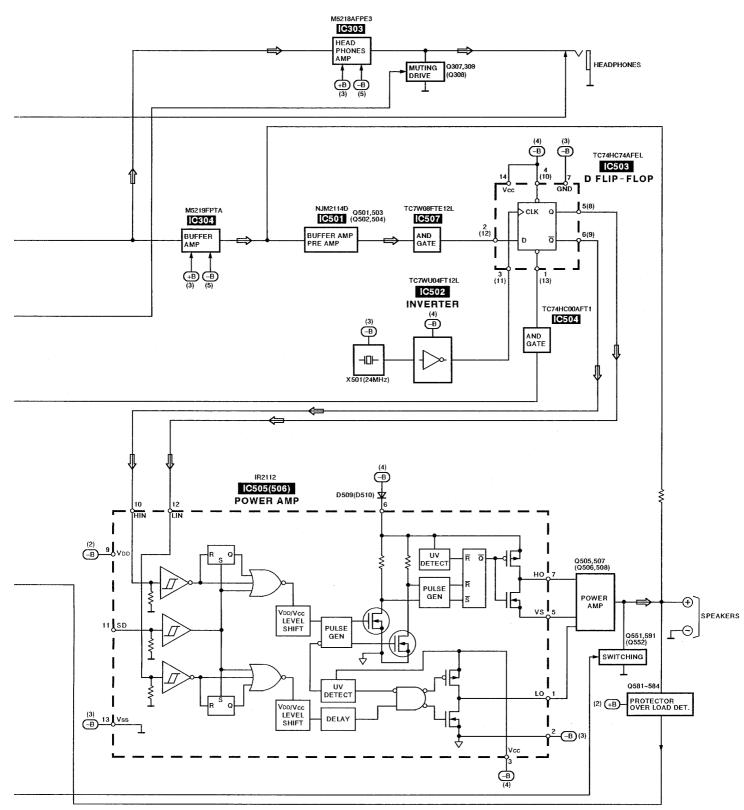




(REP2295B-P)

Block Diagram





Notes:

1) :SOURCE SIGNAL 2) ()INDICATES PIN NO. OF RIGHT CHANNEL.

Replacement Parts List (Electrical)

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 parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all areas.
 *[M] Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
				D705-707∆	MA4150M	DIODE	[M]
		INTEGRATED CIRCUIT (S)		D711, 712∆	RL1N4003N02	DIODE	[M]
				D713∆	MA4051MTA	DIODE	[M]
C301	M5219FPTA	IC	[M]	D714	MA4240H	DIODE	[M]
IC302	TC9215AFEL	IC	[M]	D721∆	MA4120HTA	DIODE	[M]
10303	M5218AFPE3	IC	[M]	D722, 723	MA185TA	DIODE	[M]
IC304	M5219FPTA	IC	[M]	D731∕∆	MA4051MTA	DIODE	[M]
IC501	NJM2114D	IC	[M]	D801	LNJ201LPQJA	LED	[M]
IC502	TC7WU04FT12L	IC	[M]	D802, 803	LNJ301MPUJAD	LED	[M]
1C503	TC74HC74AFEL	IC	[M]	D804	MA165	DIODE	[M]
IC504	TC74HC00AFT1	IC	[M]				
IC505, 506	IR2112	IC	[M]		1	VARIABLE RESISTOR (S)	
IC507	TC7W08FTE12L	IC	[M]			· · · · · · · · · · · · · · · · · · ·	
				VR301, 302	EVJYA1F04C15	V. R	[M]
		TRANSISTOR (S)		VR303	EVJ02QF04G15	V. R	[M]
				VR801	EVQWQAF2524B		[M]
Q301, 302	2SC3312RSTA	TRANSISTOR	[M]				
2303, 304	2SD2144S	TRANSISTOR	[M]		· · · · · · · · · · · · · · · · · · ·	COIL (S)	
Q305	UN4115	TRANSISTOR	[M]				
Q30 7, 3 08	2SD2144S	TRANSISTOR	[M]	L301, 302	ELEXT101KA9	COIL	[M]
2309	UN4115	TRANSISTOR	[M]	L303	RLL500050T-Y	COIL	[M]
Q501-504	2SB792RSTTX	TRANSISTOR	[M]	L501	RLQT560K	COIL	[M]
Q505-508	IRFI510G	TRANSISTOR	[M]	L502	RLQT560K1	COIL	[M]
Q551, 552	2SB792RSTTX	TRANSISTOR	[M]	L503	RLQT560K	COIL	[M]
Q553-556	2SD1819RTX	TRANSISTOR	[M]	L504	RLQT560K1	COIL	[M]
Q557	2SB1218RTX	TRANSISTOR	[M]	L505, 506	ERD25VOROOT	CHIP JUMPER	[M]
Q558, 559	2SD1819RTX	TRANSISTOR	[M]	L507, 508	BL02RN1R62T2	COIL	[M]
Q560	2SB792RSTTX	TRANSISTOR	[M]	L511	BL02RN2R62T4	COIL	[M]
Q581, 582	2SD1819RTX	TRANSISTOR	[M]	L513-515	BL02RN2R62T4	COIL	[M]
Q583	2SB1218RTX	TRANSISTOR	[M]	L701A	RLQZ271M	COIL	[M]
Q584	2SD1819RTX	TRANSISTOR	[M]	L702-706	BL02RN2R62T4	COIL	[M]
Q591	2SB792RSTTX	TRANSISTOR	[M]	L711	ELEXT101KA9	COIL	[M]
2711	2SC3311AIRTA	TRANSISTOR	[M]				
Q721A	2SD2137PQTA	TRANSISTOR	[M]			OSC ILLATOR (S)	
Q801-803	UN4111	TRANSISTOR	[M]				
				X501	EF0EC2405T4	OSCILLATOR	[M]
		DIODE (S)					
				[FUSE (S)	
505-508	MA111TX	DIODE	CMO				
509-514	D1NL20U-4084	DIODE	[M]		XBA2C10TB0	FUSE	[M]
0551-557	MA111TX	DIODE	CM0	F701, 702	XBA2C16TB0	FUSE	[M]
0558	MA8033LTX	DIODE	[M]				
0559	MA111TX	DIODE	([M]			SWITCH(ES)	
0591-593	MA111TX	DIODE	[M]				+
0594	MA4300M	DIODE	[M]		EVQ21405R	SW	[M]
)701-704 <u>∧</u>		DIODE	[M]		LIVE11001		LmJ

Ref.No.	Part No.	Part Name & Description	Remarks	:			
		CONNECTOR (S)			<u> </u>		
CN301	RJT057W004-1	CONNECTOR (4P)	[M]				
CN501, 502	RJT057W007-1		[M]			· · ·	
N503	RJS1A6606	CONNECTOR (6P)	[M]				
CN504	RJS5T7ZA	CONNECTOR (5P)	[M]				
CN701-711	RJS1A1101T1	CONNECTOR (1P)	[M]				
CN715	RJT057W004-1	CONNECTOR (4P)	[M]				·
N716-718		CONNECTOR (7P)	[M]			· · · · · · · · · · · · · · · · · · ·	
XN801, 802	RJS1A6714	CONNECTOR (14P)	[M]			· · · · · · · · · · · · · · · · · · ·	
2P301	RJU057W004	CONNECTOR (4P)	[M]				
2P501, 502	RJU057W007	CONNECTOR (7P)	[M]				
2P715							
	RJU057W004	CONNECTOR (4P)	[M]				
P716-718	RJU057W007	CONNECTOR (7P)	[M]				
	<u> </u>						
		GND PLATE					
E701	SNE1004-2	GND PLATE	[M]				
		FUSE HOLDER					
FC1-6	EYF52BC	FUSE HOLDER	[M]				
· · · · · · · · · · · · · · · · · · ·		POWER TRANSFORMER(S)					
PT701A	RTP2M5B011	POWER TRANSFORMER	[M]				-
				·			
		RELAY (S)					
RL701	DEV0012N 0	RELAY	00		<u> </u>		
	RSY0013M-0	KELAY	[M]				
		JACK (S)					
					· · · · · · · · · · · · · · · · · · ·		
JK201	RJT065K20	SYSTEM	[M]				
JK301	RJJ37TN01-C	HEADPHONES	(M)				
JK501	RJR0054	JACK	[M]				
JK701A	SJS9236	AC IN	[M]				
			-				
						·	
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	-						
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Resistors and Capacitors

Notes: *Capacity values are in microfarads (μ F) 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) *It is a specified otherwise in Paraelle salues are that are supplied to the MECA

*[M] Indicates in Remarks columns parts that are supplied by MESA.

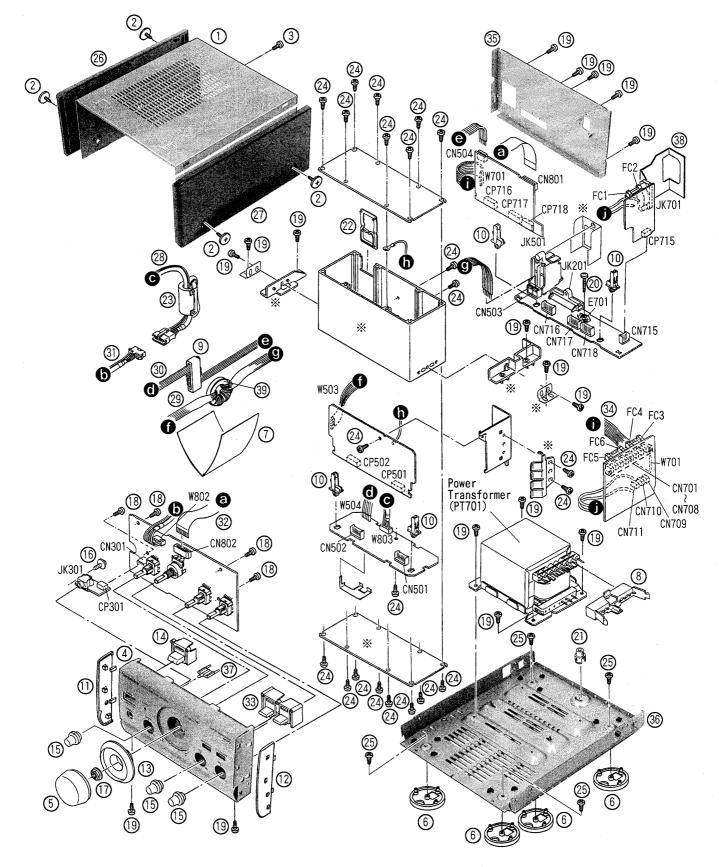
Ref. No.	Part No.	Valu	ies & R	emarks	Ref. No.	Part No.	Val	ues & F	lemarks	Ref. No.	Part No.	Values	& Remarks	
i					R555, 556	ERF2EXKR22V	2W	0. 22	DMO	C301, 302	ECEA1HKAR22B	50V O.	22 [M]	
		RESISTO	RS		R557, 558	ERJ6GEYJ103V	1/10W	10K	DMO	C303, 304	ECBT1H101KB5	50V 10	OP [M]	
					R559	ERJ6GEYJ153V	1/10W	15K	M	C305, 306	ECBT1H820KB5	50V 8	2P [M]	
R301-304	ERDS2TJ103	1/4W	10K	[M]	R561	ERJ6GEYJ152V	1/10W	1. 5K	(M)	C307, 308	RCE1CKA100BG	16V 1	OU (M)	
R305, 306	ERDS2TJ224T	1/4₩	220K	[M]	R562	ERJ6GEYJ153V	1/10W	15K	M	C309, 310	ECBT1H390J5	50V 3	9P [M]	
R307, 308	ERDS2TJ392T	1/4W	3. 9K	[M]	R563	ERJ6GEYJ473V	1/10W	47K	M	C311, 312	ECEA1HKA2R2B	50V 2.	2U [M]	
R309, 310	ERDS2TJ223	1/4W	22K	[M]	R564, 565	ERJ6GEYJ103V	1/10W	10K	DM)	C313, 314	ECQV1H823JM3	50V 0.08	2U [M]	
R311, 312	ERDS2TJ102	1/4W	1K	[M]	R566	ERJ6GEYJ222V	1/10W	2. 2K	DMC	C315, 316	ECQB1H153JF3	50V 0.01	5U [M]	
R313, 314	ERDS2TJ392T	1/4W	3. 9K	[M]	R567, 568	ERJ6GEYJ153V	1/10W	15K	M	C317, 318	ECQB1H183JF3	50V 0.01	8U [M]	
R315, 316	ERDS2TJ223	1/4₩		[M]	R569	ERJ6GEYJ473V	1/10W	47K	M	C319, 320	ECQB1H222JF3	50V 220	OP [M]	
R317, 318	ERDS2TJ392T	1/4W		[M]	R570	ERJ6GEYJ103V	1/10W	10K	[M]	C321, 322	ECBT1E223ZF	25V 0.02	2U [M]	
R319, 320	ERDS2TJ183T	1/4₩	18K		R571	ERJ6GEYJ102V	1/10₩	1K		C323, 324	ECBT1H121KB5	50V 12	OP [M]	
R321, 322	ERDS2TJ392T	1/4W	3. 9K		R572	ERJ6GEYJ103V	1/10W	10K	M	C325, 326	ECQV1H333JM3	50V 0.03		
R323	ERDS2TJ561	1/4₩		[M]	R573	ERJ6GEYJ472V	1/10W	4. 7K	M	C327, 328	ECOB1H122JF3	50V 120		
R325, 326	ERDS2TJ152	1/4₩		[M]	R574	ERJ6GEYJ103V	1/10W	10K	 M	C330, 331	ECBT1E103ZF	25V 0. (•• •••••	
R327, 328	ERDS2TJ562	1/4W	5. 6K		R575	ERJ6GEYJ105	1/10W	1M	DM3	C332	ECEA1HKA010B	50V	1U [M]	
R329, 330	ERDS2TJ104	1/4W	100K		R581	ERJ6GEYJ124V	1/10W	120K	 M0	C333, 334	RCE1CKA100BG		.0U [M]	
R332	ERDS2TJ104 ERDS2TJ222	1/4W		[M]	R582	ERJ6GEYJ823	1/10W	82K	 M)	C335	RCE1AKA101BG		IOU [M]	
R333, 334	ERDS2TJ222 ERDS2TJ122	1/4		 [M]	R583	ERJ6GEYJ563V	1/10W	56K	 [M]	C341-344	ECBT1H101KB5		OP [M]	
	ERDS2EJ121				R584		1/10W	560K	 [M]	C341 344	ECBT1H331KB5		KOP [M]	
R335, 336		1/4W		[M]		ERJ6GEYJ564V	ļ				RCE1CKA100BG		.0U [M]	
R337	ERDS2TJ224T	1/4W	220K		R585	ERJ6GEYJ223V	1/10W	22K		C347, 348				
R341, 342	ERDS2TJ471	1/4₩		[M]	R586	ERJ6GEYJ103V	1/10W	10K	M	C349-352	ECBT1E103ZF	25V 0.1		
R343, 344	ERDS2TJ333	1/4W	33K		R587	ERDS2TJ473	1/4W	47K	[M]	C353	ECBT1H102KB5	.50V 100		
R345, 346	ERDS2TJ122	1/4W		[M]	R591, 592	ERJ6GEYJ102V	1/10W	1K		C354, 355	ECBT1C105ZF5	16V	10 (M)	
R347, 348	ERDS2TJ332	1/4W	3. 3K		R593	ERJ6GEYJ473V	1/10₩	47K		C361, 362	ECBT1H473ZF5	50V 0.04		
R349-352	ERDS2TJ470	1/4₩	47	[M]	R594	ERJ6GEYJ223V	1/10W	22K	M	C371, 372	ECBT1E103ZF	25V 0.0		
R353, 354	ERDS2EJ121	1/4₩	120	[M]	R701, 702∆	ERDS1FJ182	1/2W	1.8K	M	C381, 382	ECQV1H224JM3	50V 0.1		
R355	ERDS2TJ334	1/4W		[M]	R703∆	ERDS1FJ392	1/2₩	3. 9K	[M]	C501, 502	RCE1CKA100BG		.0U [M]	
R356	ERDS2TJ222	1/4W	2. 2K		R704	ERQ16NKW1ROE	1₩	1.0	[M]	C503-506	ECUV1H102KBN	50V 10		
R361	ERDS2TJ273	1/4W	27K		R711∆	ERG1SJ221	1/6W	220	M	C507	ECUV1E103ZFN	25V 0.		
R371, 372	ERDS2TJ562	1/4W	5. 6K		R712	ERG1SJ271	1₩	270	[M]	C509, 510	ECUV1H331KBN		80P [M]	
R373, 374	ERDS2TJ332	1/4W	3. 3K		R713	ERDS2TJ333	1/4W	33K		C511, 512	ECUV1E103ZFN	25V 0.		
R381, 382	ERDS2TJ392T	1/4₩	3. 9K	[M]	R714	ERDS2TJ392T	1/4W	3. 9K	[M]	C513, 514	ECUV1E224ZFN	25V 0.		
R501, 502	ERJ6GEYJ472V	1/10₩	4.7K		R715	ERDS2TJ473	1/4W	47K	[M]	C515-518	ECUVNC1052FN	16V	1U [M]	
R503, 504	ERJ6GEYJ824V	1/10₩	820K	[M]	R721	ERG2ANJP331S	2₩	330	M	C519, 520	ECQV1H185JL3	50V 1.	8U [M]	
R505, 506	ERJ6GEYJ103V	1/10W	10K	[M]	R722	ERDS2TJ222	1/4W	2. 2K	M	C521, 522	ECQV1H824JM3	50V 0.	32U [M]	
R507	ERJ6GEYJ301V	1/10₩	300	[M]	R731, 732	ERDS2TJ221	1/4W	220	M	C523, 524	ECKT1H102KB	50V 10)op [m]	
R508	ERJ6GEYJ241V	1/10₩	240	(M)	R741, 742	ERDS2TJ102	1/4W	1K	[M]	C525	ECUV1H682KBN	50V 68)op [m]	
R509, 510	ERJ6GEY0R00V	1/10₩	0.00	[M]	R751-753	ERDS2TJ101	1/4W	100	DMO	C526	ECUV1H181KCN	50V 1	30P [M]	
R511, 512	ERJ6GEYJ153V	1/10W	15K	[M]	R801	ERDS2TJ821	1/4W	820	[M]	C527	ECUVNC2252FN	16V 2	2U [M]	
R513-516	ERJ6GEYJ562V	1/10W	5. 6K	[M]	R802	ERDS2TJ102	1/4W	1K	[M]	C529, 530	ECUV1H223ZFN	50V 0.0	22U [M]	
R517-520	ERJ6GEYJ1ROV		1. 0		R803	ERDS2TJ271	1/4W	270		C531, 532	ECUV2H101JCM	500V 1)OP [M]	
R523, 524	ERJ6GEYJ473V		47K		R805	ERDS2TJ472	1/4W	4. 7K		C533-536	ECUV1H102KBN	50V 10)OP [M]	
R525	ERJ6GEYJ273V		27K		R807	ERDS2TJ331	1/4W	330		C543, 544	ECUV1E103ZFN	25V 0.)1U [M]	
R526	ERJ6GEYJ153V		15K		R808	ERDS2TJ104	1/4W	100K		C547	ECUV1H562KBN)OP [M]	
R541	ERJ6GEYJ105	1/10₩		[M]	R810	ERDS2TJ331	1/4W		[M]	C551	ECEA0JKA101B)OU [M]	
R544	ERJ6GEYJ221V	1/10W	220		11	1				C552	ECUV1E224ZFN		22U [M]	
R551, 552	ERJ6GEYJ181V	1/10W	180				CAPACI	TORS		C553, 554	ECUVNC225ZFN		2U [M]	
R553, 554	ERJ6GEYJ392V		3. 9K							C555	ECUV1H102KBN	50V 10		<u> </u>

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Ref.No.	Part No.	Values & Remarks					
C561	ECUV1H472KBN	50V 4700P [M]					
C581	ECEAOJKA101B	6.3V 100U [M]					
C582	ECUV1E223ZFN	25V 0.022U [M]					
C583	ECUVNC105ZFN	16V 1U [M]					
C701	ECUV1E104ZFN	25V 0.1U [M]					
C702	ECUV1H101KCN	50V 100P [M]					
C703, 704	EEUFA1H561E	50V 560U [M]					
C705	ECUV1E104ZFN	25V 0.1U [M]					
C706	ECUV1H472KBN	50V 4700P [M]			· .		
C707, 708	ECA1EM101B	25V 100U [M]					
C709, 710	ECUV1E104ZFN	25V 0.1U [M]					
C711	ECQE1104KF3	100V 0.1U [M]			· · · · · · · · · · · · · · · · · · ·		
C712	ECKR2H102ZF5	500V 1000P [M]				1	
C713∆	ECA1HM470B	50V 47U [M]					
C715A	ECA1HM102E	50V 1000U [M]					
C716A	ECA1HM102B	50V 1000U [M]					······································
C717∆	ECA1HM102E	50V 1000U [M]					
C718A	ECA1HM102B	50V 1000U [M]					
C719	ECEA1EKA470B	25V 47U [M]					
C720	ECUV1E104ZFN	25V 0.1U [M]				**************************************	
C721	ECUV1E103ZFN	25V 0.01U [M]	 				
C722	RCE1CKA100BG	16V 10U [M]					
C723	ECEA1CKA101B	16V 100U [M]	 				 · · · · · · · · · · · · · · · · · · ·
C724, 725	ECUV1H102KBN	50V 1000P [M]					
C731	ECEAOJKA101B	6.3V 100U [M]					· · · · · · · · · · · · · · · · · · ·
C732	ECUVNC105ZFN	16V 1U [M]					
C751	ECBT1E223ZF	25V 0.022U [M]					
C752	ECBT1H102KB5	50V 1000P [M]					
C1101, 1102	ECBT1E223ZF	25V 0.022U [M]					
C1103-1106	ECBT1H102KB5	50V 1000P [M]					
	ECBT1C1052F5	16V 1U [M]					
C1109, 1110	ECBT1H102KB5	50V 1000P [M]					
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Replacement Parts List (Cabinet, Packing and Accessories)

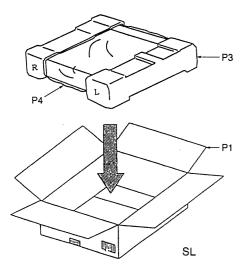
	RKM0326A-S RHD30073-K	CABINET PARTS		P3	RPN1008	PAD (RS)	[M]
	RKM0326A-S RHD30073-K	CABINET PARTS					
	RHD30073-K			P4	SPP740	SHEET	[M]
	RHD30073-K			P5	RPF0139	POLYETHYLENE COVER	[M]
		CABINET	(M)				
	XTBS3+10JFZ1	SCREW	[M]			ACCESSORIES	
		SCREW	[M]				1
]	RFKGEHD60E-N	FRONT PANEL ASS' Y	[M]	A1	RAK-CH193WH	REMOTE CONTROL	[M]
]	RGW0247-S1	KNOB, VOLUME	[M]	A1-1	RKK0057-K	BATTERY COVER	[M]
	RKA0076-N	FOOT	[M]	A2	RFA0737-R	SPEAKER CORD UNIT	[M]
	RMF0236	SHEET	[M]	A3	REX0608	FLAT CABLE (20P)	[M]
11	RMN0191	P. C. B HOLDER	[M]	A4	REX0812	FLAT CABLE (19P)	[M]
1	RLBT4001-D	FERRITE CORE	[M]	A5	REX0813	FLAT CABLE (15P)	DMG
)]	RMN0203	P. C. B HOLDER	CMO	A6	RJA0019-2K	AC POWER SUPPLY CORD	
	RGK0810-N	ORNAMENT	CM0		RQA0117	WARRANTY CARD	
		ORNAMENT	[M]	A8	RQCB0169	SERVICENTER LIST	[M]
		VOLUME ORNAMENT	[M]	A9	RQT3840-E	INSTRUCTION MANUAL	[M] (E) <1A>
		BUTTON, POWER	[M]	A9	RQT3841-D	INSTRUCTION MANUAL	[M] (EG) <ib></ib>
		KNOB, TONE	[M]	A9	RQT3862-H	INSTRUCTION MANUAL	[M] (EG)<1C>
	RHD26016	SCREW	[M]		RSA0007	FM INDOOR ANTENNA	[M]
	SNE4021-1	NUT	[M]	A10	RSA0021	AM LOOP ANTENNA	[M]
	XTBS26+8J	SCREW	[M]		1.540021	AN LOUF ANTENNA	1 [m]
		SCREW	(M) (M)	L			1
		SCREW			"ho∥.1A.		Demerles india
			[M]			< IB >, < IC >" mark in instruction manual.	Remarks Indic
		PCB SUPPORT	[M]	······			
	·····	EDGE HOLDER	[M]			nch, Spanish, Swedish	
		FERRITE CORE	[M]			nan, Italian, French	
	XTB3+6JFZ	SCREW	[M]	<	IC > : Duto	ch, Danish	
	XTB3+6G	SCREW	[M]				
		ORNAMENT	[M]				
		ORNAMENT	[M]				
		WIRE ASS' Y	[M]				
		FLAT CABLE (W503/6P)	[M]				
0	RWJ5705300KX	FLAT CABLE (\\$04, 803/5P)	LMJ				
	REZ0902	WIRE ASS' Y(W802/5P)	[M]				
2	REZ0900	FLAT CABLE (CN801, 802/14P)	[M]				
3	RGU1393-Q	BUTTON, OPERATION	[M]				
4	RWJ1808165KK	FLAT CABLE (W701C, D/8P)	(M)				
5	RGR0241A-Q	REAR PANEL	[M]				
6	RMK0323-2	CHASSIS	[M]				
7	RGL0333-1Q	PANEL LIGHT	[M]				
		BARRIER	[M]				
	RLBT3101-D	FERRITE CORE	[M]				
		PACKING MATERIALS					
1	RPG3434	GIFT BOX(SE)	[M]				
		GIFT BOX(ST)	[M]				
		GIFT BOX(SL)	[M]				
		GIFT BOX (RS)	[M]				
	RPQ0731	PAD (ACCESSORY)	[M]				
3		PAD (SE) PAD (ST/SL)	[M] [M]				

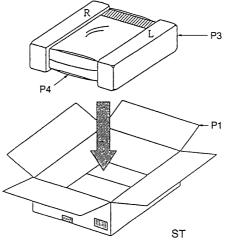
Cabinet Parts Location

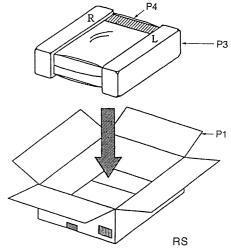


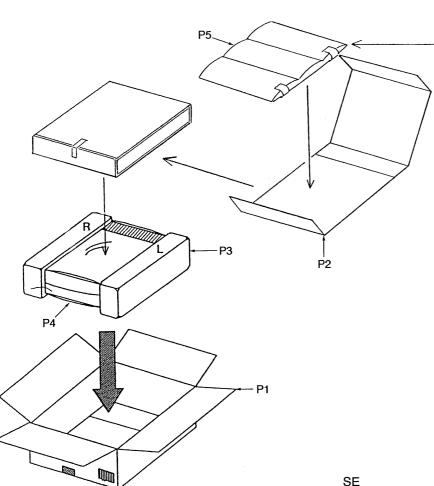
The parts marked in "%" are not supplied.

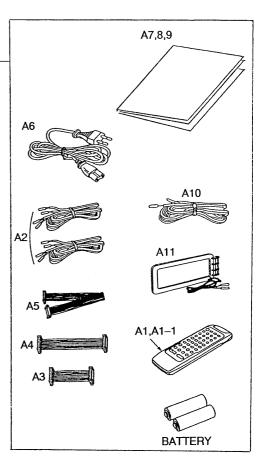
Packaging











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