

TA-EX100

SERVICE MANUAL

AEP Model
E Model



TA-EX100 is the amplifier
section in MHC-EX100AV.

SPECIFICATIONS

- * Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

DIN power output

FRONT: 50 W + 50 W (6 ohms,
at 1 kHz, DIN)
CENTER: 25 W (6 ohms, at 1 kHz,
DIN)
REAR: 15 W + 15 W (8 ohms,
at 1 kHz, DIN)

Continuous RMS power output

FRONT: 65 W + 65 W (6 ohms,
at 1 kHz, 10% THD)
CENTER: 35 W (6 ohms, at 1 kHz,
10% THD)
REAR: 20 W + 20 W (8 ohms,
at 1 kHz, 10% THD)

Music power output

FRONT: 95 W + 95 W
(6 ohms, at 1 kHz, 10%
THD)
CENTER: 45 W (6 ohms, at 1 kHz,
10% THD)
REAR: 25 W + 25 W (8 ohms,
at 1 kHz, 10% THD)

Input	Jack type	Sensitivity	Impedance
CD	Phono	450 mV	47 kilohms
MD	Phono	450 mV	47 kilohms
TUNER	Phono	250 mV	47 kilohms
VIDEO1	Phono	250 mV	47 kilohms
VIDEO2	Phono	250 mV	47 kilohms
TAPE	Phono	250 mV	47 kilohms
Output	Jack type	Voltage	Impedance
MD	Phono	250 mV	1 kilohm
VIDEO1	Phono	250 mV	1 kilohm
TAPE	Phono	250 mV	1 kilohm
PHONES	Stereo phone	—	Accepts headphones of 8 ohms or more

MONITOR OUT (phono jack):
1 V_{p-p}/75 ohms

FRONT SPEAKER:
accepts speakers of 6 to
16 ohms

CENTER SPEAKER:
accepts speakers of 6 to
16 ohms

REAR SPEAKER:
accepts speakers of 8 to
16 ohms

Dimensions

Approx. 280 x 125 x 292 mm
(11 1/8 x 5 x 11 1/2 in) (w/h/d)
incl. projecting parts and controls

Mass
Approx. 7.4 kg
(16 lb 6 oz)

General

Power requirements

AEP, German, Italian models:
220-230V AC, 50/60Hz
Other models:
110-120V or 220V-240V AC
adjustable, 50/60Hz

Power consumption

220W (active speakers not
included)

Design and specifications are subject to change
without notice.

— Continued on next page —



AV AMPLIFIER
SONY®

[TEST MODE]

Press **[SYSTEM POWER]** button, turn the power on and press **[DIS PLAY]** and **[AUDIO]** buttons for two seconds at the same time to enter in the test mode.

See the list below for check of mode and display.

Button	Display(mode)
M.MENU	PRO-LOGIC ON/OFF & MODE setting. The display will change every pressing the button. PHANTOM(ON)→NORMAL→WIDE→3CH LOGIC→THROUGH(OFF)
P.FILE	7kHz LPF ON/OFF
PRO LOGIC	B DECODER ON/OFF
M.SOURCE	LEFT (Lch test tone output)
PRESENSE	RIGHT (Rch test tone output)
MEMORY	CENTER (Cch test tone output)
NAME	REAR (Sch test tone output)
KARAOKE PON/MPX	FL & LED all light up

Note:

Turn off the test tone with pressing the **[M.MENU]** button to change the mode.

Press the corresponded button to each channel to fix each channel of the test tone after the **[M.SOURCE]** button.

Press the **[SYSTEM POWER]** button to cancel the test mode.

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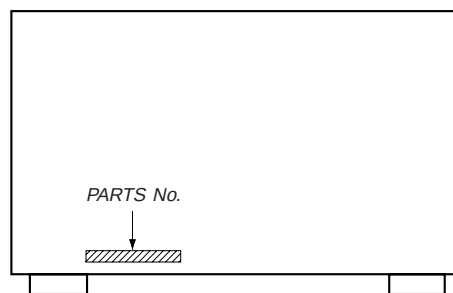
SECTION 5. ELECTRICAL PARTS LIST 38

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MODEL IDENTIFICATION

– BACK PANEL –

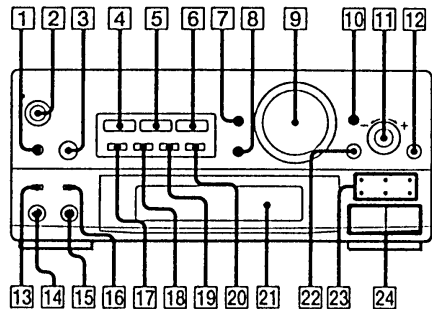


MODEL	PARTS No.
AEP model	4-978-785-0□
German model	
Italian model	
Singapore model	4-978-785-1□
Hong Kong model	4-978-785-2□

SECTION 1 GENERAL

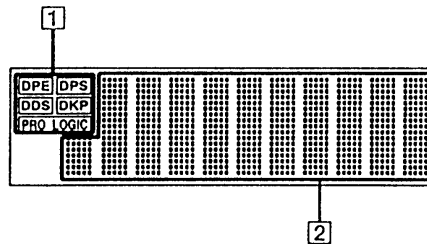
This section is extracted from instruction manual.

Front Panel



- 1 Remote sensor
- 2 SYSTEM POWER switch and ON/STANDBY indicator (8)
The indicator remains lit as long as the AC power cord is connected to a wall outlet.
- 3 MIC LEVEL control (33)
- 4 M. MENU button (21)
- 5 P FILE button (26)
- 6 PRO LOGIC button (29, 30)
- 7 SOURCE DIRECT button* (21, 30)
- 8 MUTING button* (21)
- 9 VOLUME control (6, 8, 21, 29, 31, 33)
- 10 CANCEL button (22)
- 11 MULTI CONTROLLER* (21, 23 – 27, 29)
- 12 ENTER button (21, 29)
- 13 DISPLAY button (22)
- 14 PHONES jack (21, 34)
- 15 MIX MIC jack (33, 34)
- 16 KARAOKE PON/MPX button* (33)
- 17 M. EFFECT button* (22)
- 18 PRESENCE button* (24)
- 19 MEMORY button (26)
- 20 NAME button (27)
- 21 Display window (21 – 26)
- 22 NEXT button (23, 25, 26, 29)
- 23 Indicators of the video/audio sources
VIDEO 1 (29)
VIDEO 2 (29)
TAPE
MD
CD (17, 20)
TUNER (20)
- 24 FUNCTION buttons
(17, 20, 29, 30, 33, 34)
VIDEO (29, 33, 34)
AUDIO (17, 20, 30, 33, 34)

Display Window

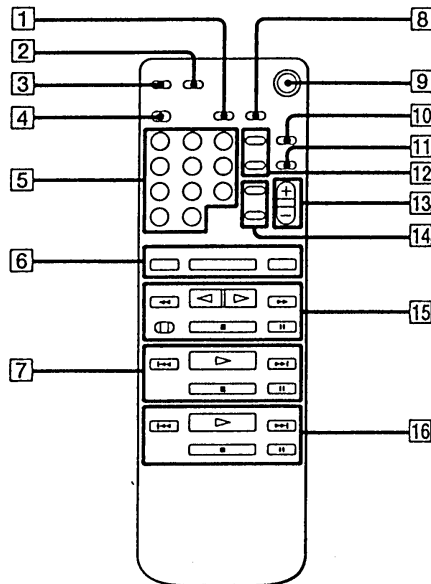


- 1 Audio emphasis indication (23 – 25)
- 2 Amplifier indication (21 – 26)

Remote

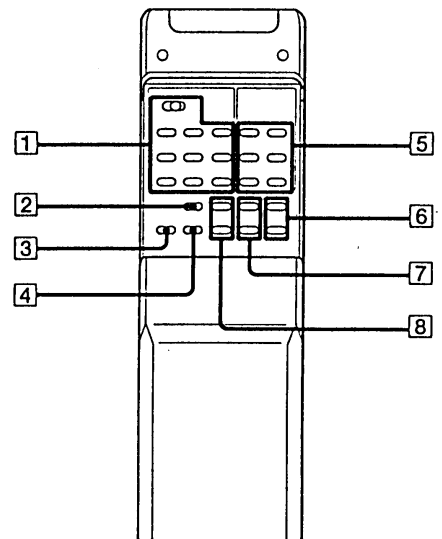
For further operation, refer to the pages in parentheses.

Front panel



- 1 SOURCE DIRECT button (21, 30)
- 2 SLEEP button (31)
- 3 MUTING button (21)
- 4 CD/AMP/MD selector (9)
- 5 CD/AMP/MD numeric buttons (9)
- 6 Tuner operating buttons (11)
BAND button
+/- buttons
- 7 CD operating buttons
▷ (play) (8)
⏸ (pause) (8)
■ (stop) (8)
◀▶ (manual search) (9)
- 8 PRO LOGIC button (29, 30)
- 9 SYSTEM POWER switch (8)
- 10 AUDIO FUNCTION button (17, 20, 30, 33, 34)
- 11 VIDEO FUNCTION button (29, 33, 34)
- 12 M.MENU buttons (22)
- 13 VOLUME (+/-) buttons (8, 21, 29, 31, 33)
- 14 P FILE buttons (26)
- 15 Tape operating buttons (15)
◀ (reverse side play)
▷ (front side play)
◀◀ (fast leftward and AMS**)
▶▶ (fast rightward and AMS**)
■ (stop)
⏸ (pause)
DECK A/DECK B switch
**AMS: Automatic Music Sensor
- 16 MD operating buttons
▷ (play)
⏸ (pause)
■ (stop)
◀◀/▶▶ (manual search)

Rear panel

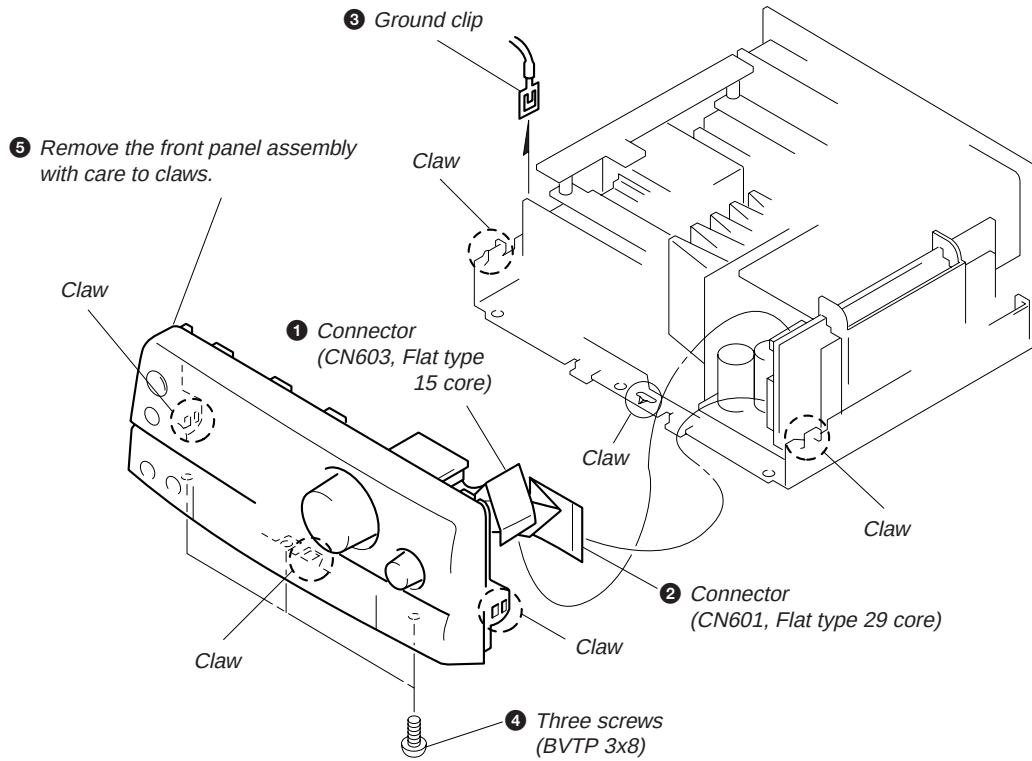


- 1 VCR operating buttons (29)
- 2 PRO LOGIC button (29)
- 3 PRO LOGIC MODE button (29)
- 4 TEST TONE button (29)
- 5 TV operating buttons (29)
- 6 DELAY TIME (+/-) buttons (30)
- 7 REAR LEVEL (+/-) buttons (30, 36)
- 8 CENTER LEVEL (+/-) buttons (30, 36)

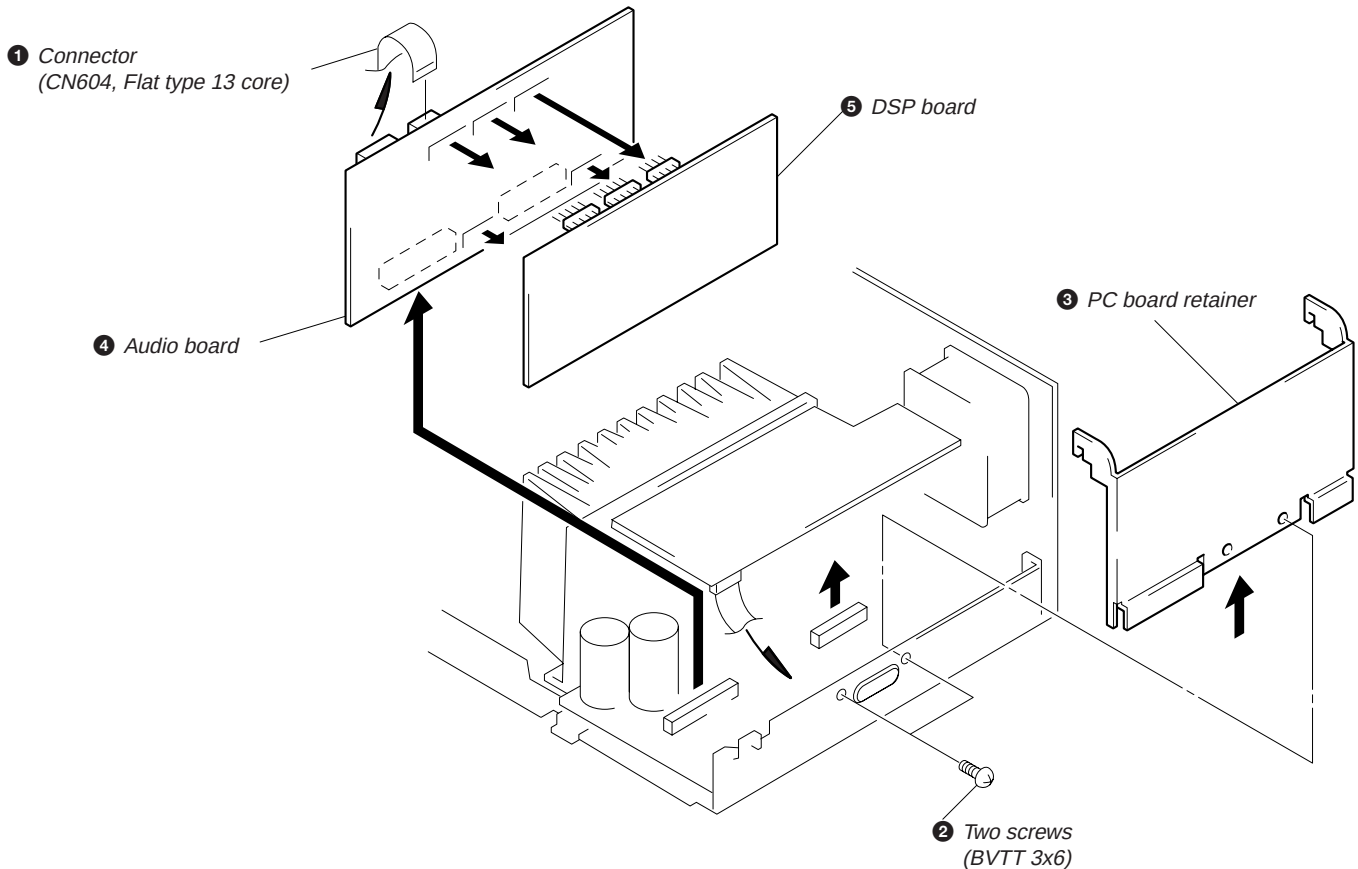
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

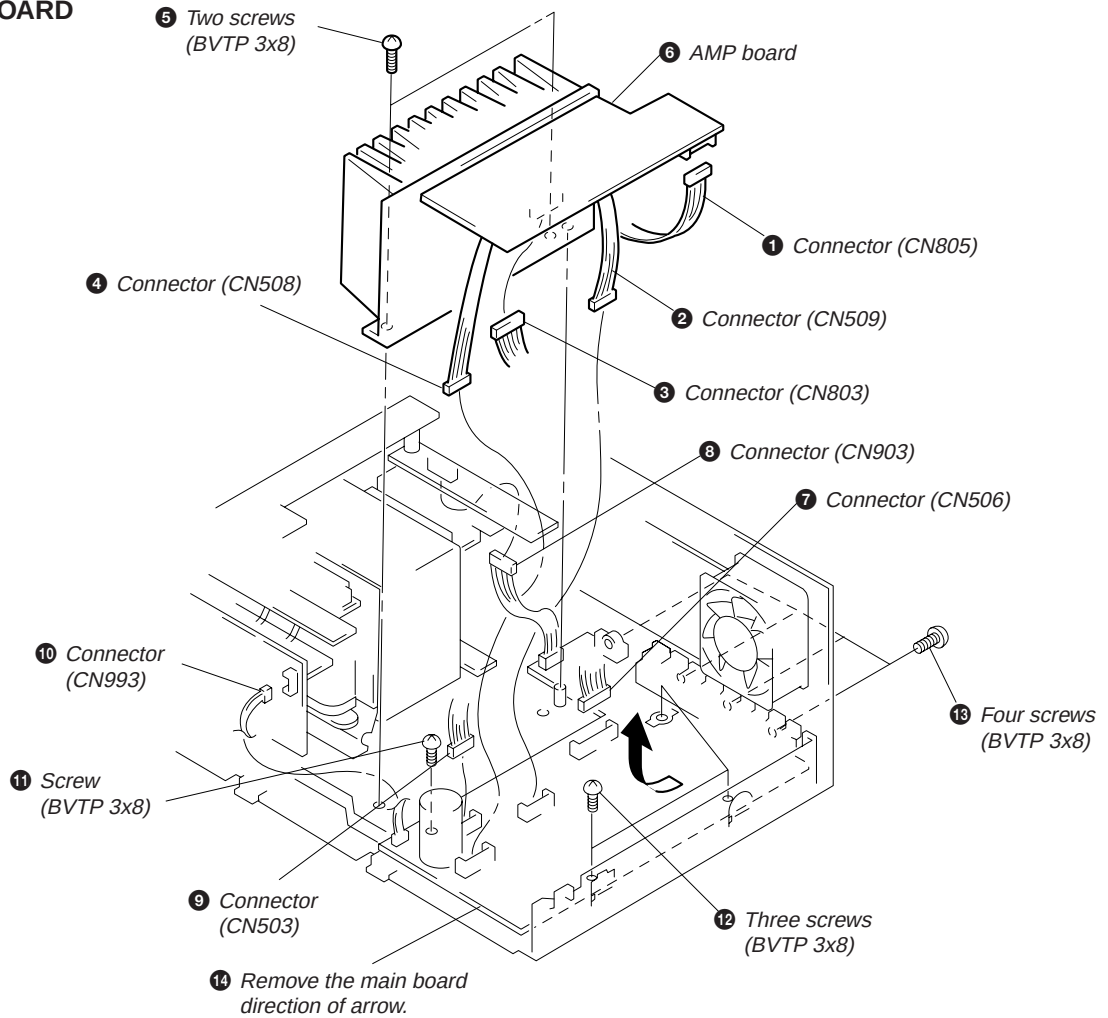
2-1. FRONT PANEL ASSEMBLY



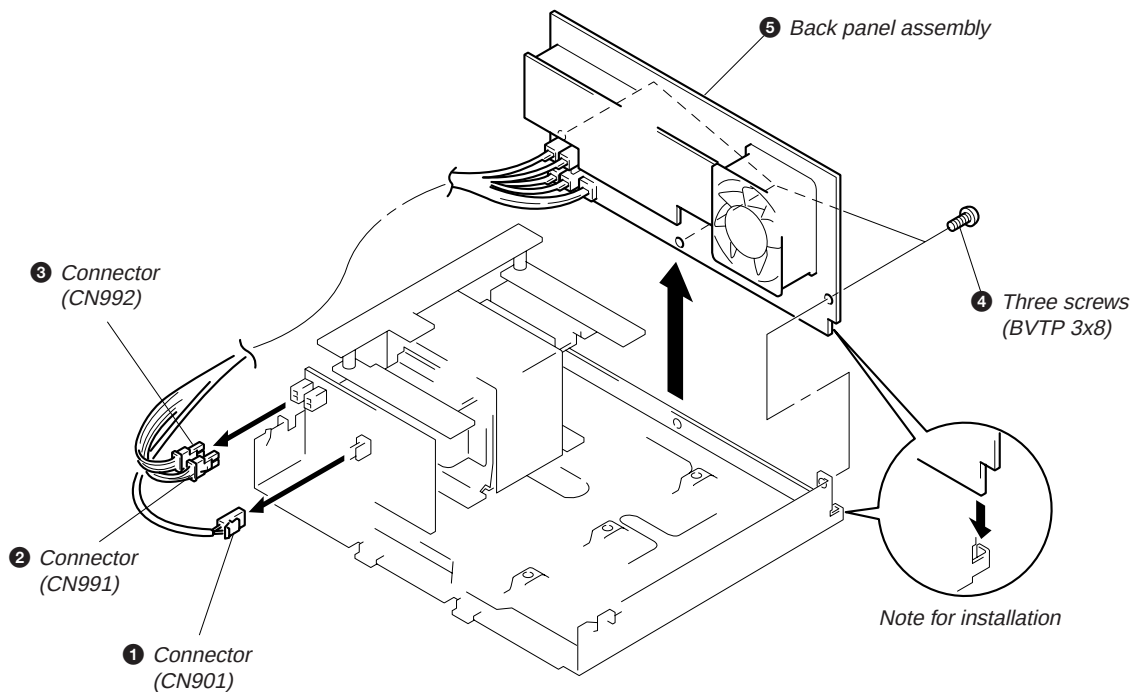
2-2. AUDIO BOARD AND DSP BOARD



2-3. MAIN BOARD

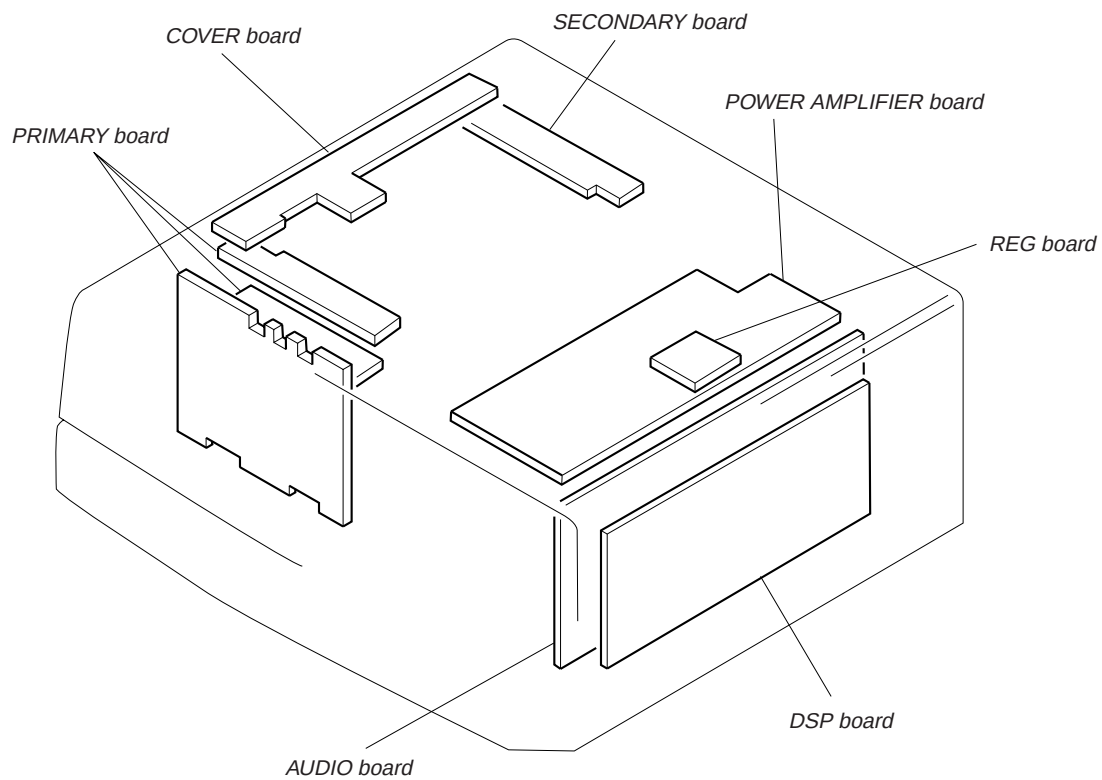
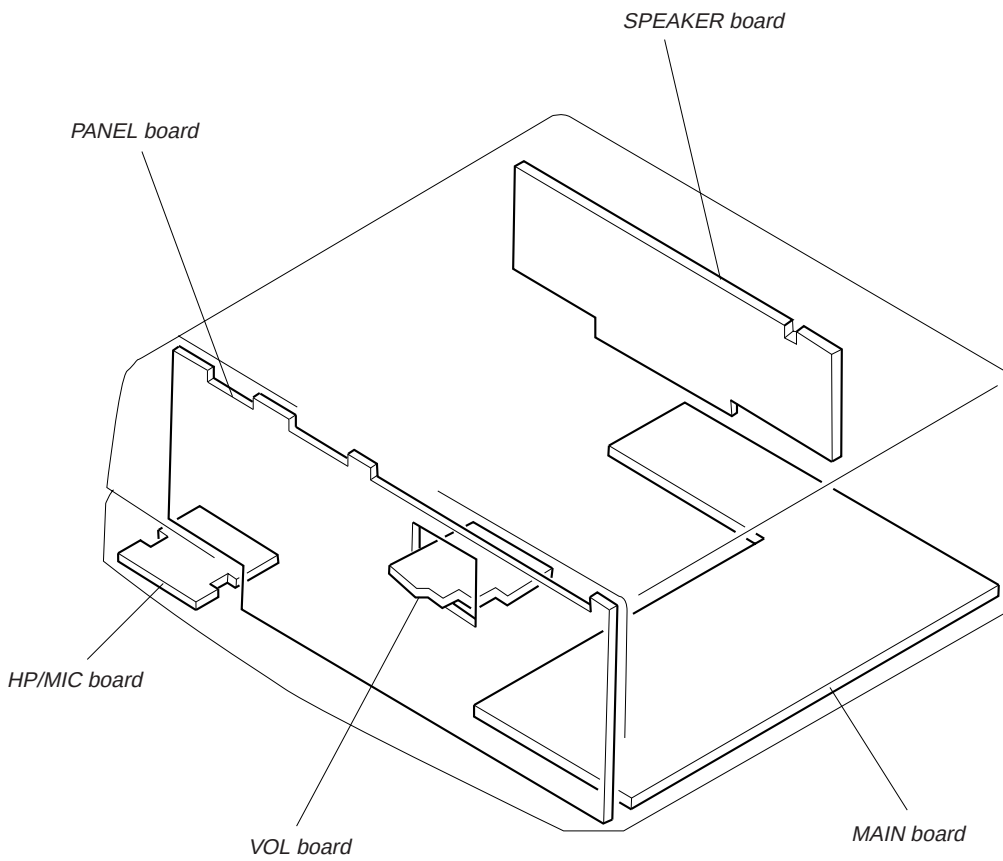


2-4. BACK PANEL ASSEMBLY



SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. IC PIN FUNCTION

• IC601 SYSTEM CONTROL (HD6433927B97F)

Pin No.	Pin Name	I/O	Function
1	VOLUME IN	—	Not used. (Ground)
2 to 4	KEY 0 to KEY 2	I	Key matrix input.
5	AVss	—	Ground
6	TEST	—	Ground
7	X2	—	Not used. (open)
8	X1	—	+5V power supply.
9	Vss	—	Ground
10	OSC 1	I	Clock (10 MHz).
11	OSC 2	O	
12	RESET	I	System reset input.
13	NMI	I	AC OFF detect.
14	POWER	O	Power relay output.
15	SP RELAY	O	Speaker relay output. (power ON/OFF)
16	PROLOGIC RELAY	O	Speaker relay output. (PROLOGIC ON/OFF)
17	DIRECT	O	Speaker relay. (DIRECT)
18	VOL-UP	O	MIC VOL up/down output.
19	VOL-DOWN	O	
20	LINE MUTE	O	LINE mute output. (power OFF “High”)
21	−20 dB MUTE	O	−20 dB mute output.
22	—	—	Not used. (open)
23	—	—	Not used. (Ground)
24	SIRCS	I	SIRCS signal input
25	AUB IN	I	Audio bus input.
26	AUB OUT	O	Audio bus output.
27 to 31	—	—	Not used. (Ground)
32	STB	O	LED strobe output.
33	CLK	O	LED clock output.
34	DATA	O	LED serial data output.
35 to 38	—	—	Not used. (Ground)
39	MIC IN	O	Microphone detect control. (mic on “Low”)
40	KARAOKE PON	—	Not used. (Ground)
41 to 46	—	—	Not used. (Ground)
47	A FUNC 0	O	Audio function control output.
48	A FUNC 1	O	
49	A FUNC 2	O	
50	V FUNC 0	O	Video function control output.
51	V FUNC 1	O	
52	2DB	O	ATT control.
53	4DB	O	
54	8DB	O	

Pin No.	Pin Name	I/O	Function
55	—	—	Not used. (Ground)
56	$\overline{\text{CL}}$	O	FL clear output. IC701, 702 control.
57	DATA	O	FL data output. IC701, 702 control.
58	LATCH	O	FL latch output. IC701, 702 control.
59	CLK	O	FL clock output. IC701, 702 control.
60	DATA OUT	O	DSP data output. IC202 control.
61	DATA IN	I	DSP data input. IC202 control.
62	CLK	O	DSP clock output. IC202 control.
63	Vcc	—	+5V power supply.
64	LATCH	O	DSP latch output.
65	NSQCT	O	DSP test data output.
66	READY	I	READY signal input from DSP.
67	INIT	O	DA/AD/DSP IC initial output.
68	ATT	O	DA ATT output.
69	CLK	O	DA clock output.
70	DR LATCH	O	DA rear/center latch output.
71	DF LATCH	O	DA front latch output.
72	AVcc	—	+5V power supply.
73 to 78	—	—	Not used. (Ground)
79	JOG 1	I	JOG A input.
80	JOG 2	I	JOG B input.

• Abbreviation

FL : Fluorescent Indicator Tube

3-3. PRINTED WIRING BOARD — MAIN SECTION —
• See page 6 for Circuit Boards Location.

• Semiconductor Location

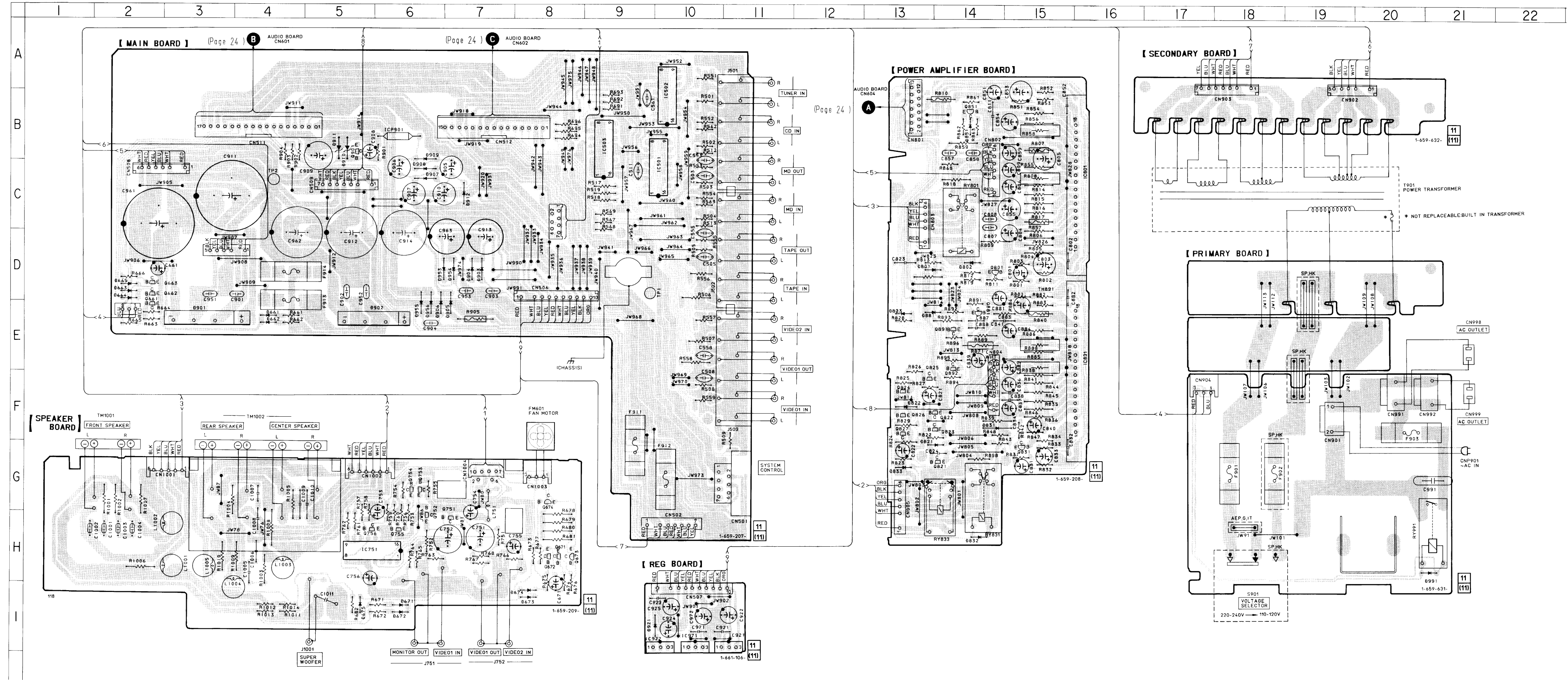
Ref. No.	Location	Ref. No.	Location
D661	E-4	IC501	C-10
D662	E-4	IC502	B-10
D663	D-2	IC503	B-9
D664	D-2	IC751	H-5
D665	D-2	IC801	C-16
D671	I-6	IC831	E-16
D672	I-6	IC921	I-11
D673	I-8	IC922	I-10
D674	I-8	IC971	I-10
D675	I-5		
D801	D-13	Q661	E-2
D802	D-14	Q662	D-2
D821	F-14	Q663	D-2
D822	F-13	Q671	H-8
D823	E-13	Q672	H-8
D831	F-14	Q673	H-8
D832	H-14	Q751	H-7
D833	G-13	Q752	H-6
D851	B-14	Q753	G-6
D881	E-13	Q754	G-6
D901	E-3	Q755	H-6
D902	E-5	Q756	H-6
D903	D-7	Q801	D-14
D904	D-7	Q821	G-14
D905	E-7	Q822	F-14
D906	E-6	Q823	F-14
D907	C-6	Q824	F-13
D908	C-6	Q825	F-13
D909	B-6	Q826	F-13
D910	B-5	Q827	F-13
D911	B-5	Q831	G-15
D912	C-7	Q851	B-14
D921	I-9	Q881	E-14
D953	D-7	Q891	E-14
D954	D-7	Q892	E-14
D955	E-6	Q901	B-5
D956	E-6		
D991	H-15		

Note:

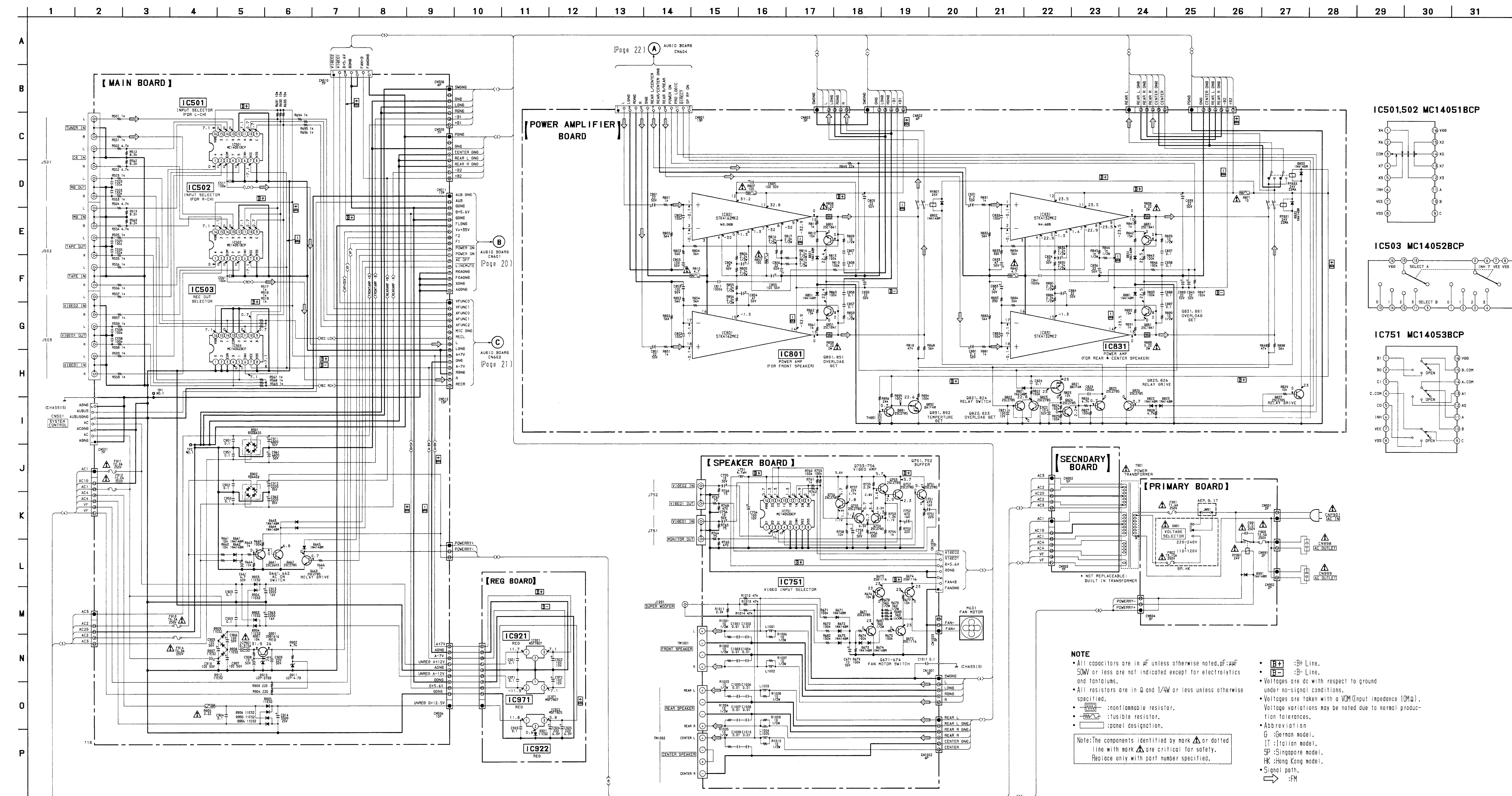
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enable seeing.

Abbreviation

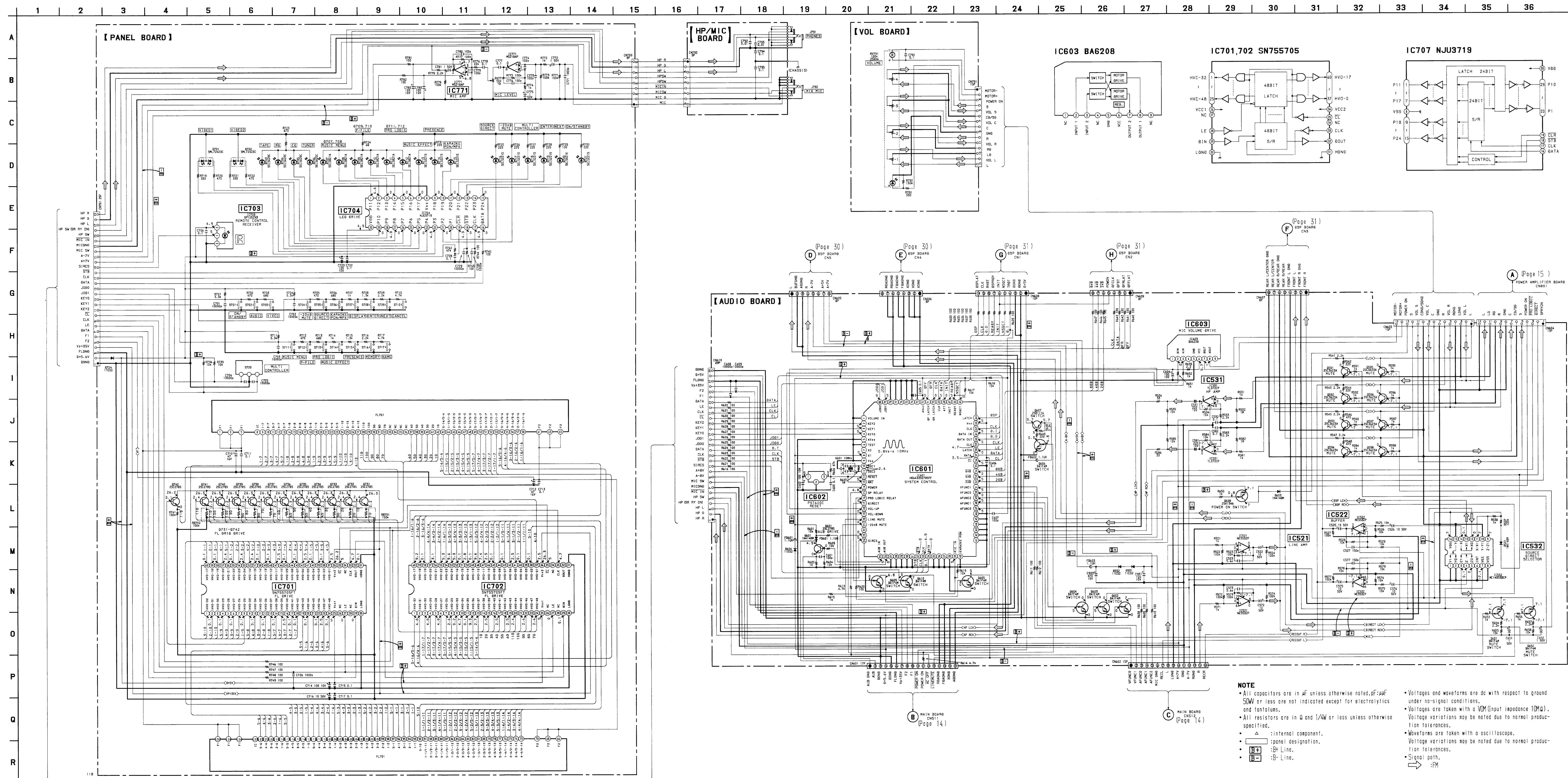
- G : German model.
- IT : Italian model.
- HK : Hong Kong model.
- SP : Singapore model.



3-4. SCHEMATIC DIAGRAM — MAIN SECTION —
• See page 7 for IC Pin Function. (IC601)

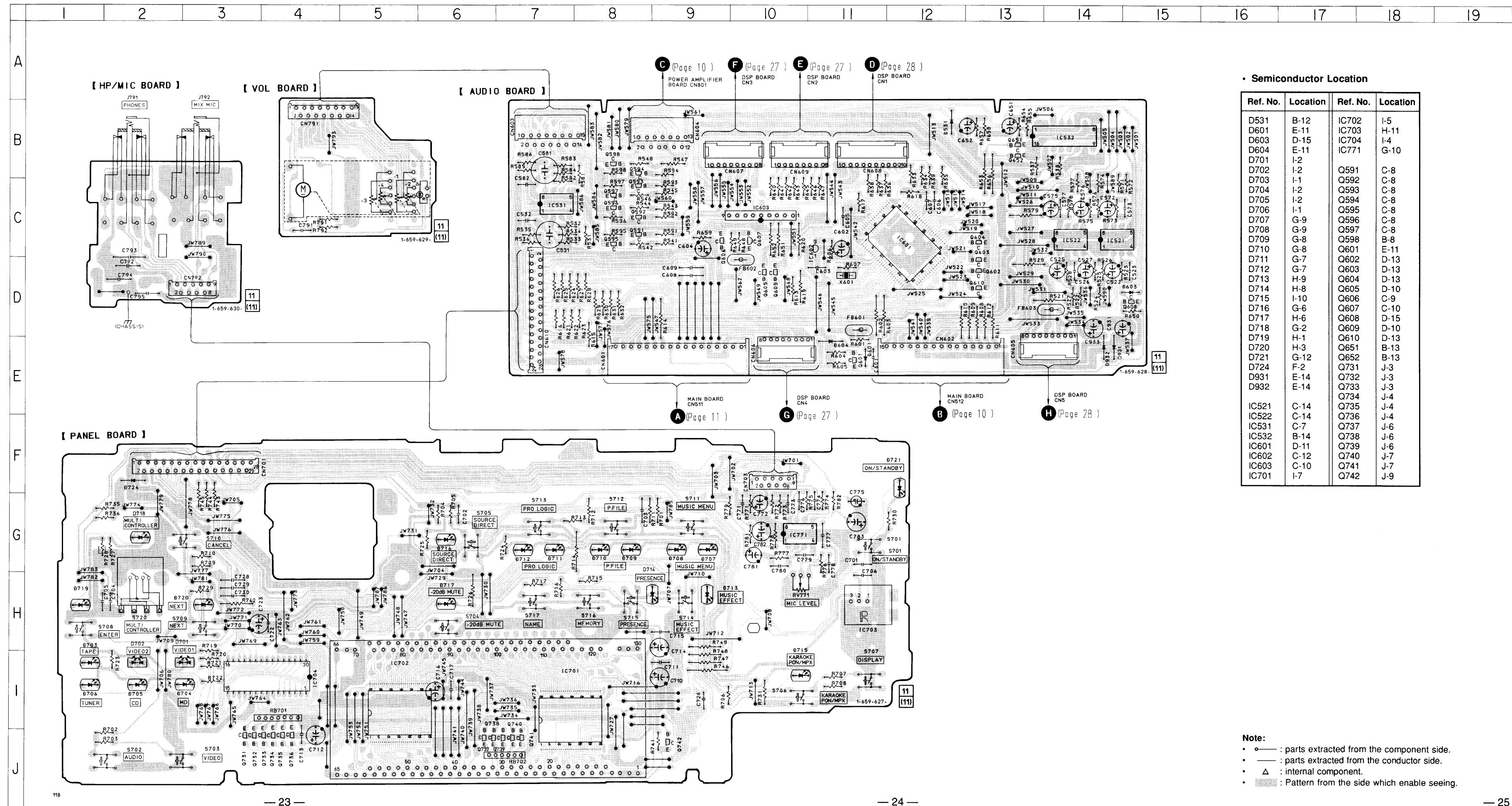


3-5. SCHEMATIC DIAGRAM — AUDIO/PANEL SECTION —



3-6. PRINTED WIRING BOARD — AUDIO/PANEL SECTION —

• See page 6 for Circuit Boards Location.



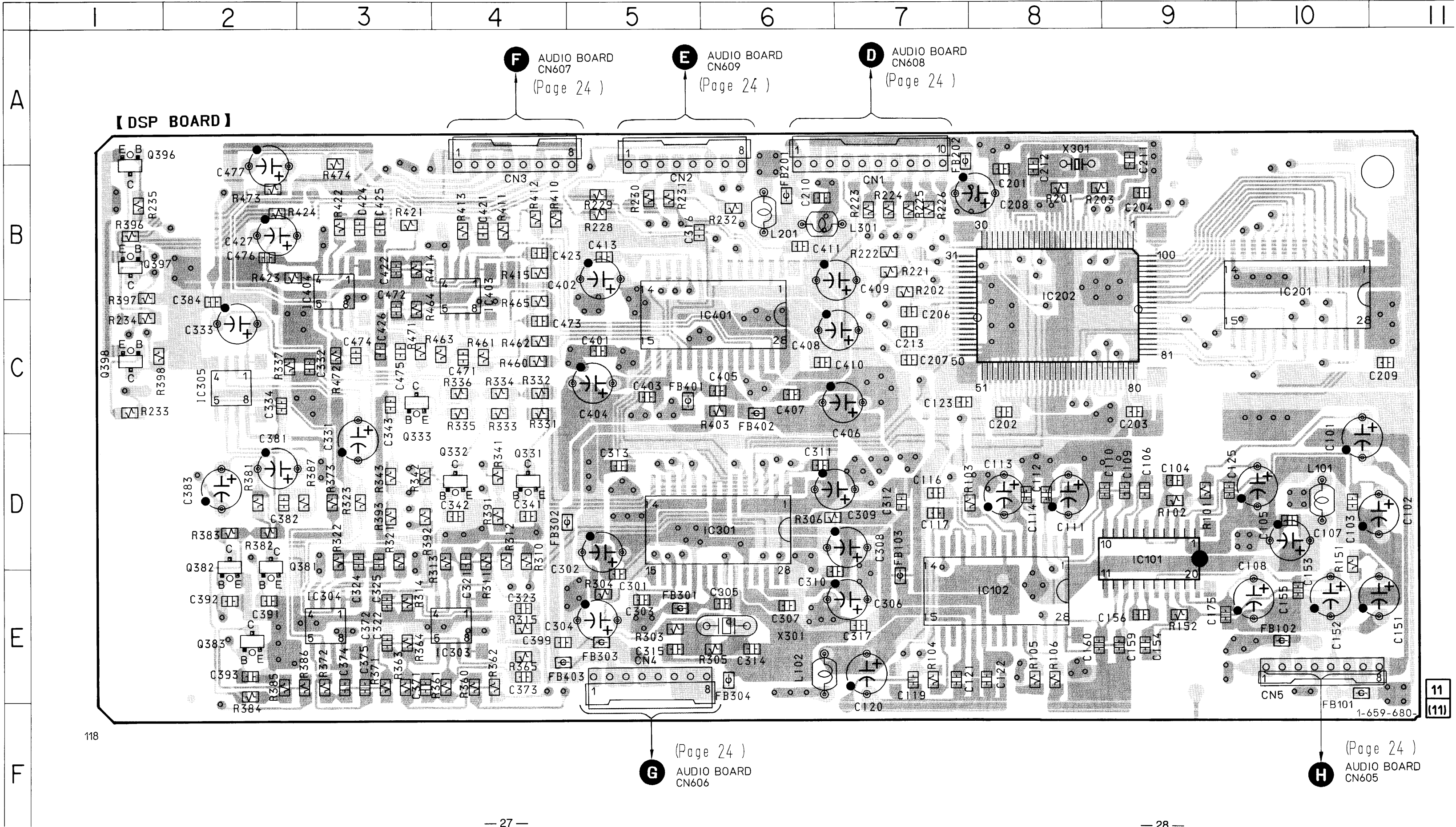
3-7. PRINTED WIRING BOARD — DSP SECTION —
• See page 6 for Circuit Boards Location.

• Semiconductor Location

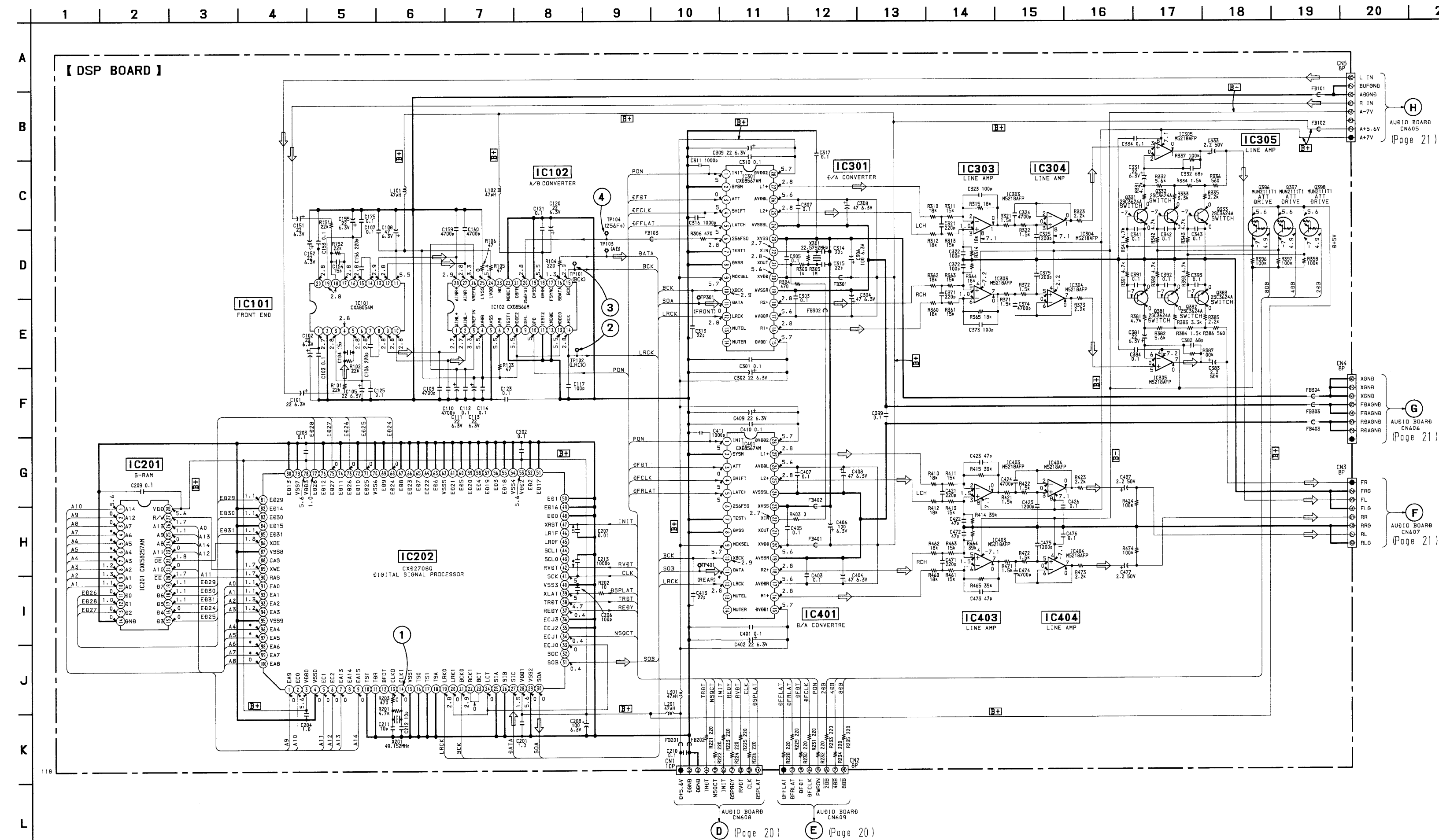
Ref. No.	Location
IC101	E-9
IC102	E-8
IC201	C-10
IC202	C-8
IC301	D-6
IC303	E-4
IC304	E-3
IC305	C-2
IC401	C-6
IC403	C-4
IC404	C-3
Q331	D-4
Q332	D-4
Q333	C-3
Q381	E-2
Q382	E-3
Q383	E-2
Q396	A-1
Q397	B-1
Q398	C-1

Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Through hole.
- : Pattern from the side which enable seeing.
- : Pattern of the rear side.

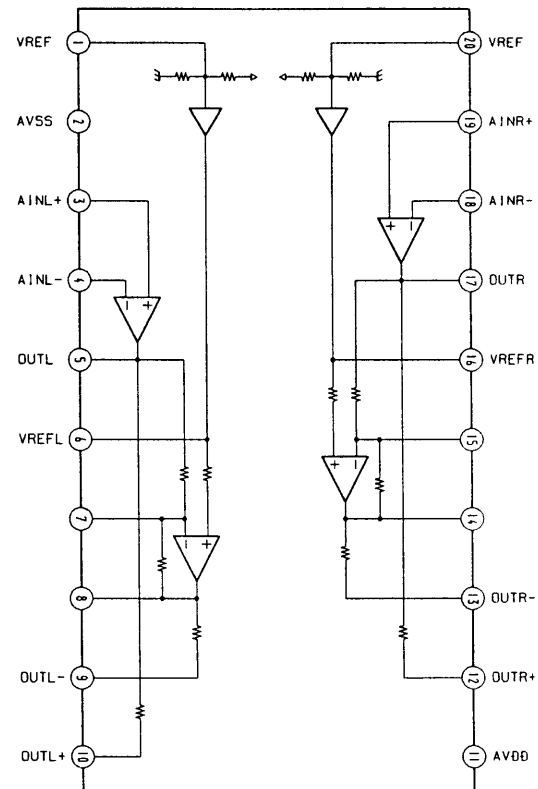


3-8. SCHEMATIC DIAGRAM — DSP SECTION — • See page 33 for IC Block Diagrams.

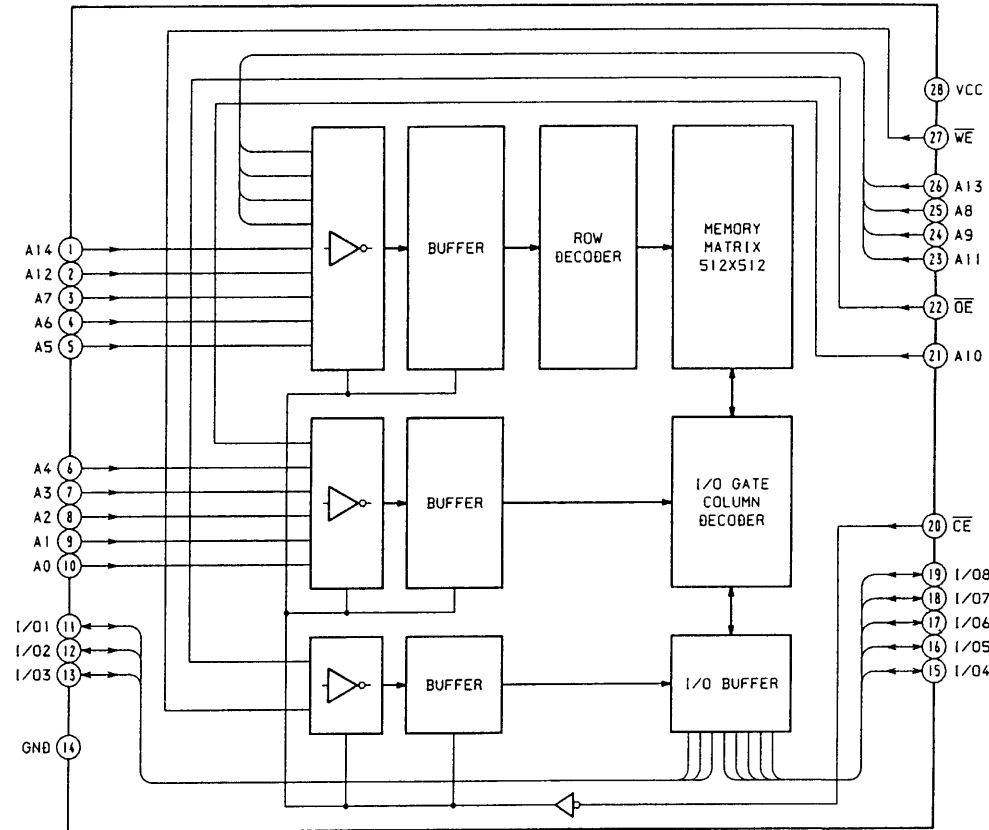


3-9. IC BLOCK DIAGRAMS — DSP SECTION —

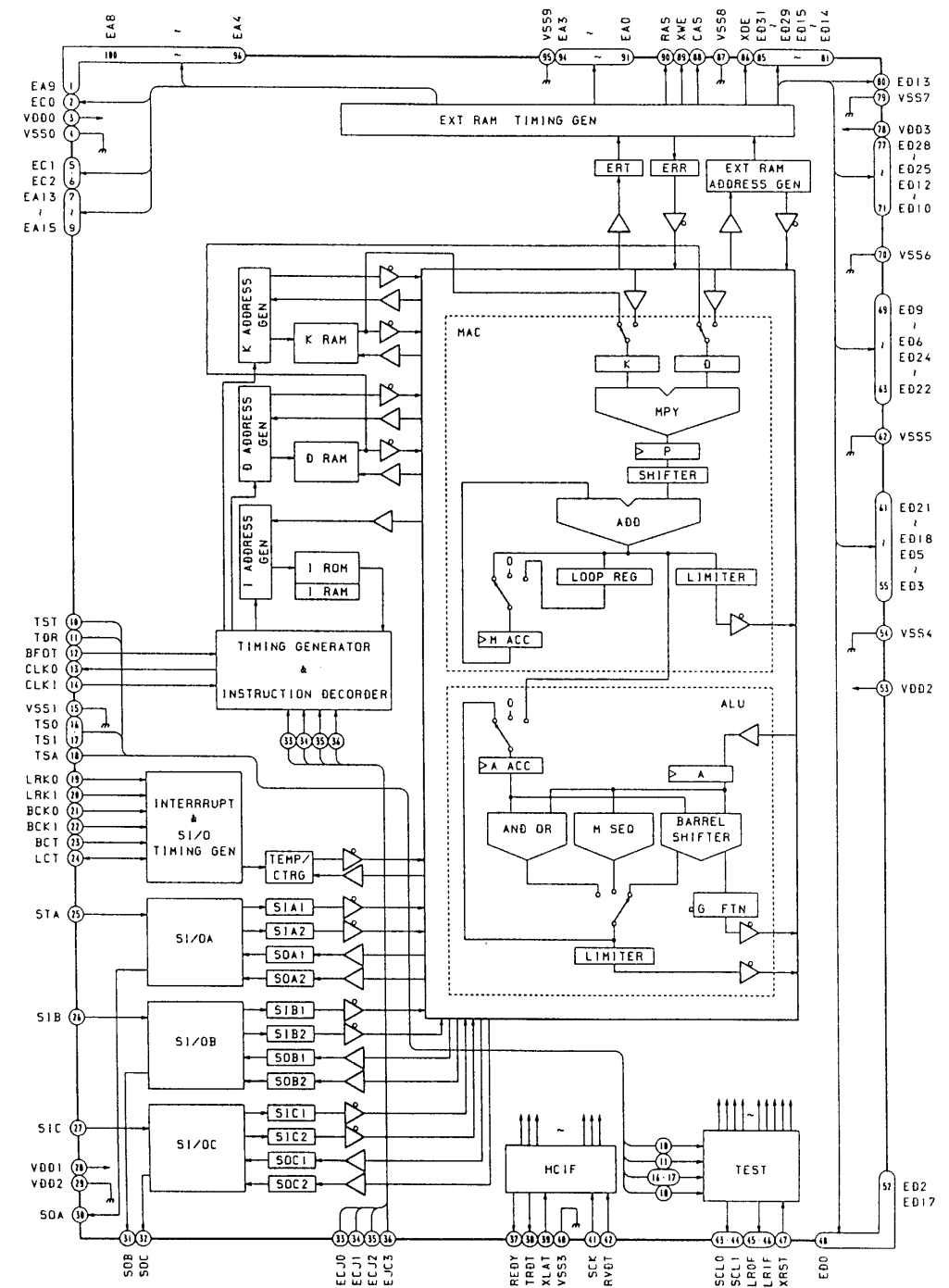
IC101 CXA8054M



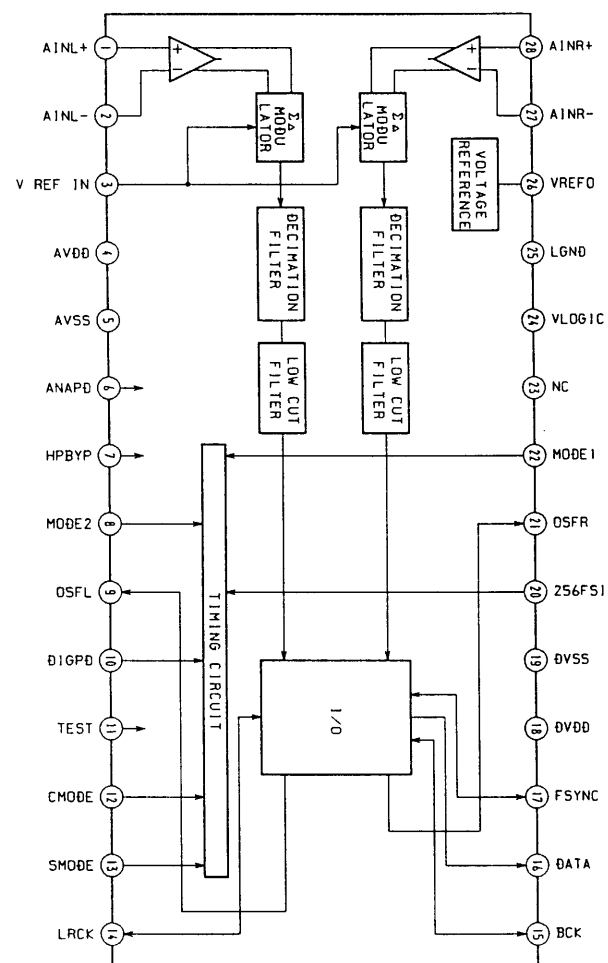
IC201 CJK58257AM



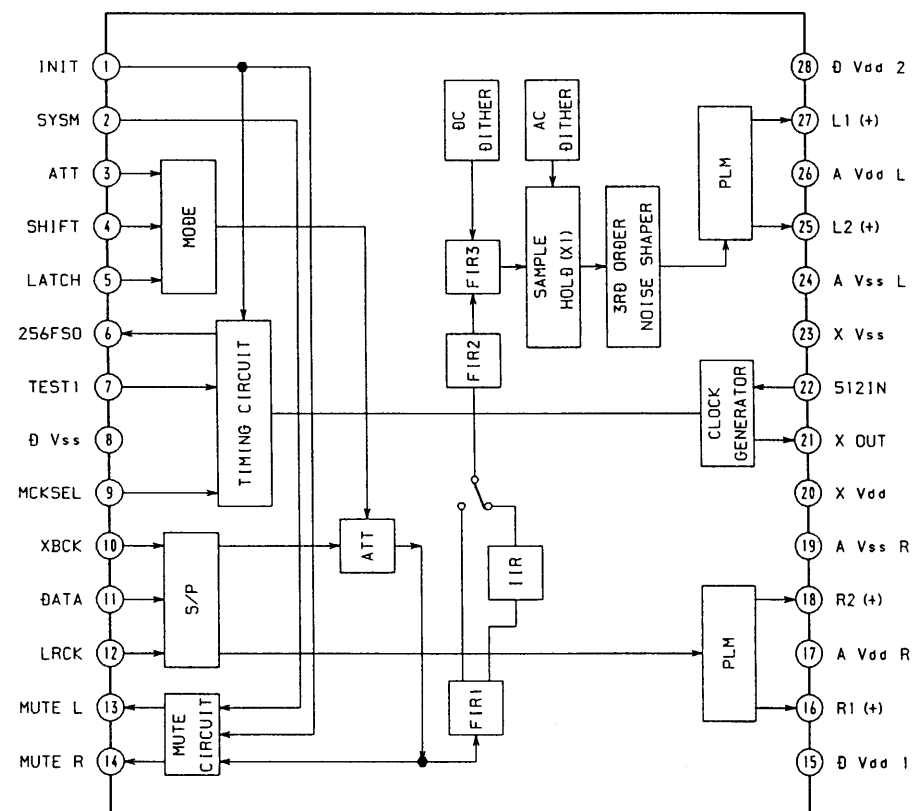
IC202 CXD2708Q



IC102 CXD8566M



IC301, 401 C XD8567M



SECTION 4 EXPLODED VIEWS

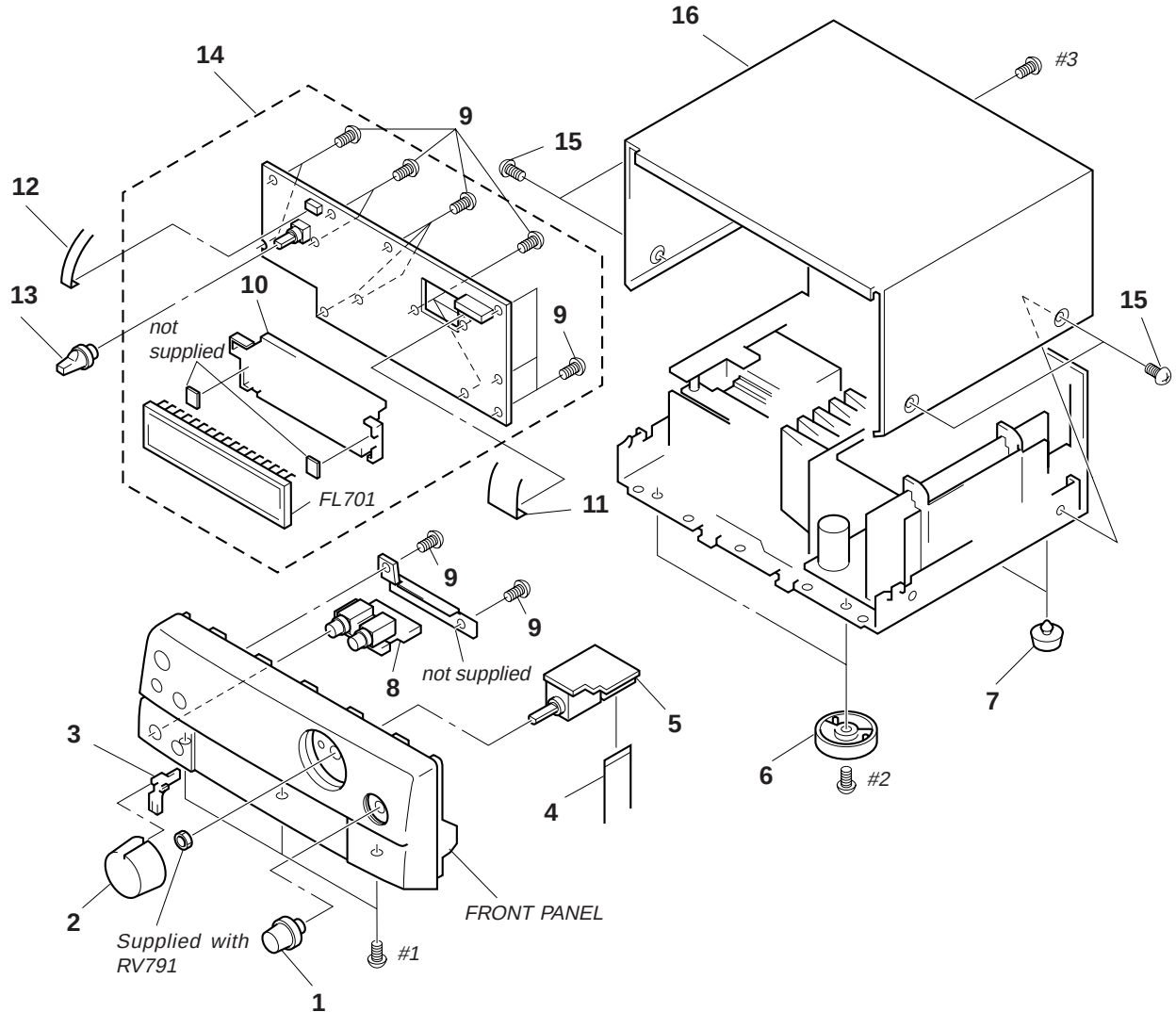
NOTE:

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- Abbreviation
G : German model
IT : Italian model
HK : Hong Kong model
SP : Singapore model

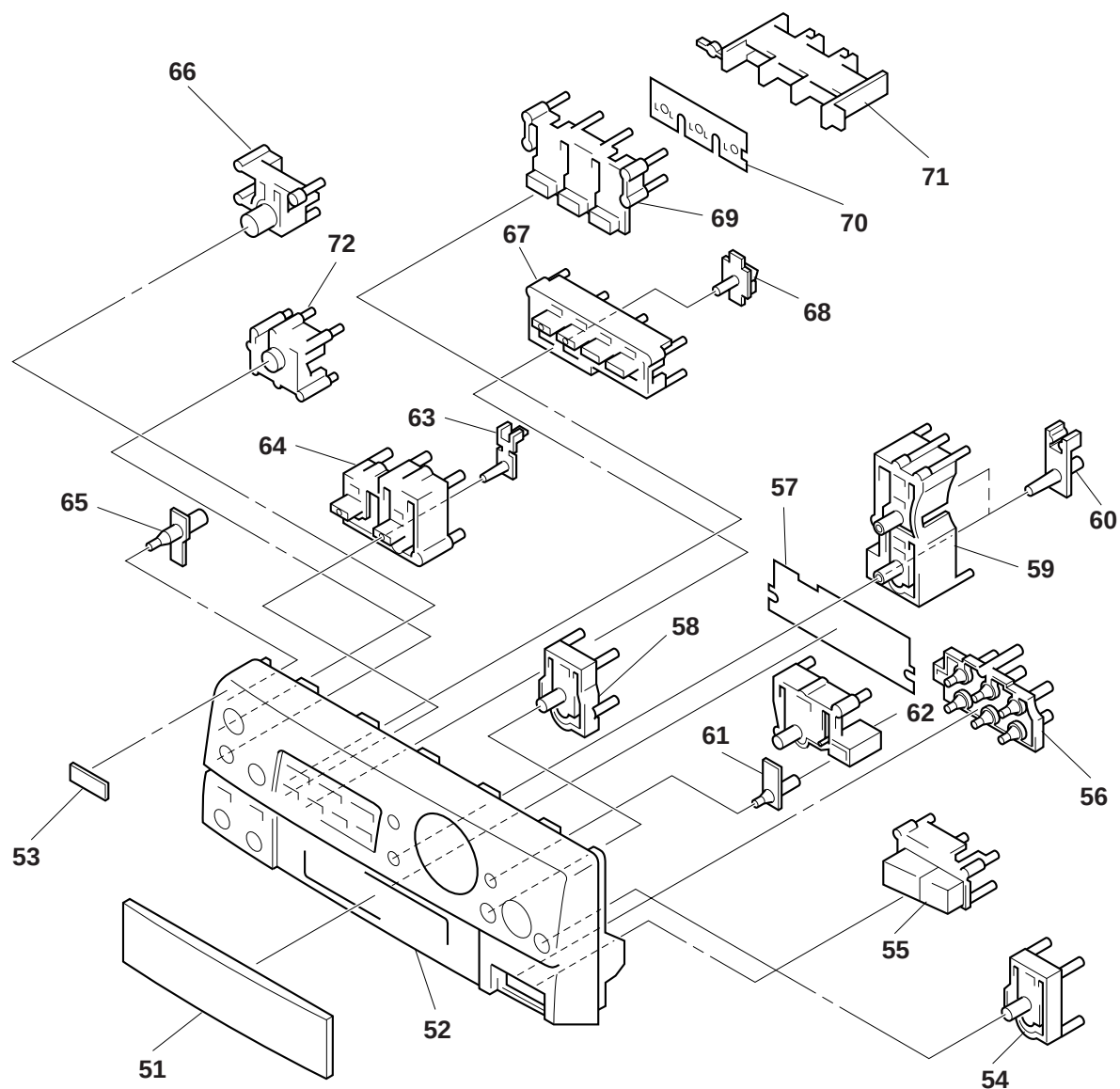
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

4-1. FRONT PANEL SECTION 1



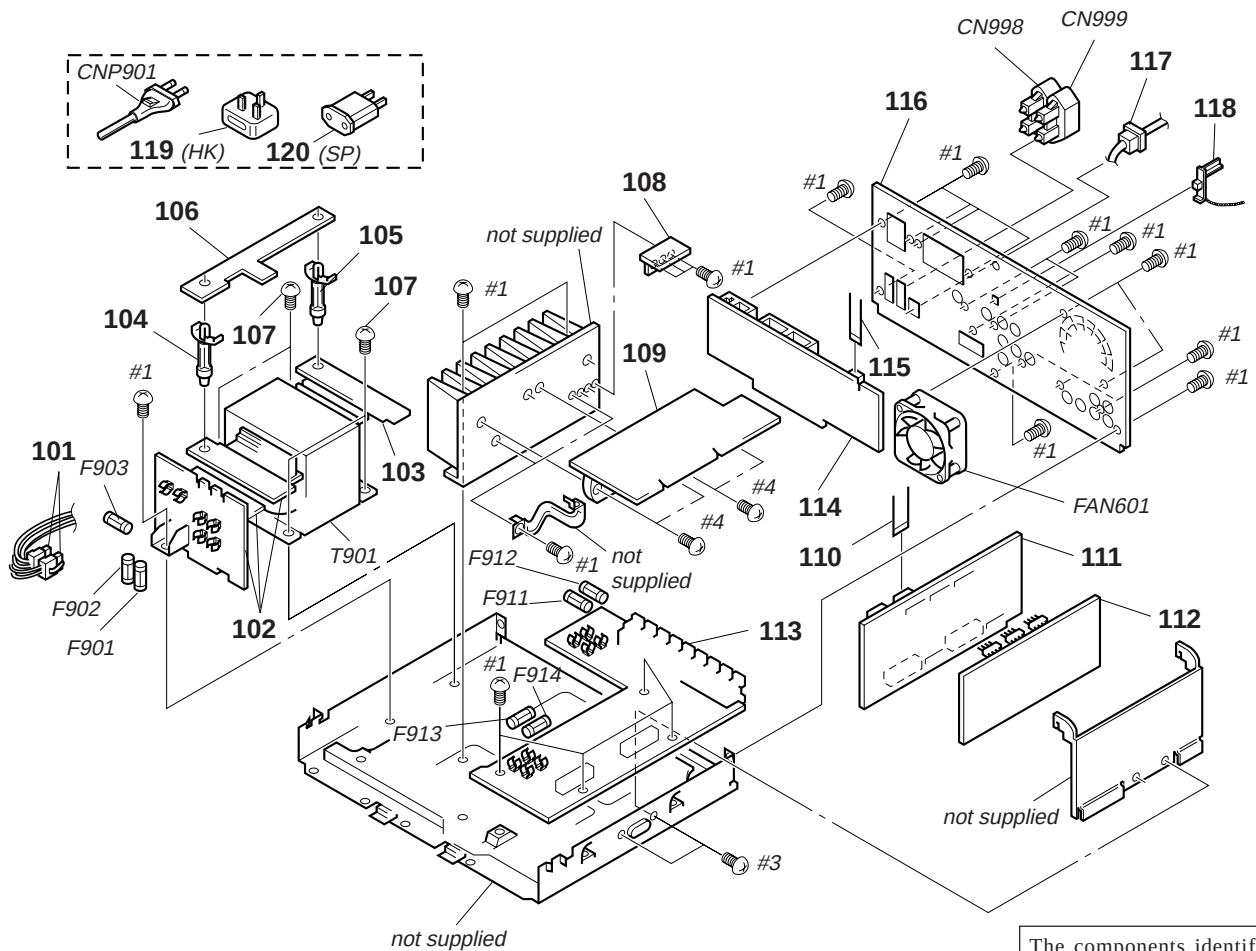
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-979-623-01	KNOB (JOG)		11	1-777-115-11	WIRE (FLAT TYPE)(29 CORE)	
2	4-970-955-11	KNOB (VOL)		12	1-769-910-11	WIRE (FLAT TYPE)(9 CORE)	
3	4-979-349-01	INDICATOR (VOL)		13	4-973-043-31	KNOB (KR)	
4	1-773-004-11	WIRE (FLAT TYPE)(15 CORE)		* 14	A-4389-083-A	PANEL BOARD, COMPLETE (AEP,G,IT)	
* 5	1-659-629-11	VOL BOARD		* 14	A-4389-094-A	PANEL BOARD, COMPLETE (SP,HK)	
6	4-977-699-11	LEG (F)		15	3-363-099-01	SCREW (CASE 3 TP2)	
7	4-965-822-01	FOOT		* 16	4-980-744-61	CASE	
* 8	1-659-630-11	HP/MIC BOARD		FL701	1-517-494-11	INDICATOR TUBE, FLUORESCENT	
9	4-951-620-01	SCREW (2.6X8), +BVTP					
* 10	4-979-266-01	HOLDER, FL TUBE					

4-2. FRONT PANEL SECTION 2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4947-103-1	WINDOW (FL) ASSY		62	4-978-776-01	BUTTON (CANCEL)	
52	4-978-769-01	PANEL, FRONT		63	4-978-774-01	INDICATOR (K)	
53	4-962-708-11	EMBLEM (4-A), SONY		64	4-978-770-01	BUTTON (K)	
54	4-978-778-01	BUTTON (ENTER)		65	4-977-712-11	INDICATOR (POWER)	
55	4-977-739-11	BUTTON (FUNC)					
56	4-978-779-01	INDICATOR (FUNC)		66	4-977-708-11	BUTTON (POWER)	
57	4-979-352-11	FILTER (CD)		67	4-978-772-01	BUTTON (MENU 2)	
58	4-978-777-01	BUTTON (NEXT)		68	4-978-773-01	INDICATOR (MENU)	
59	4-977-736-21	BUTTON (MUTE)		69	4-978-771-01	BUTTON (MENU 1)	
60	4-977-740-01	INDICATOR (MUTE)		70	4-979-342-01	FILTER	
61	4-979-596-01	INDICATOR (JOG)		71	4-978-780-01	HOLDER, LED	
				72	4-977-715-11	WINDOW (RM)	

4-3. CHASSIS SECTION



The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	1-776-530-11	CORD (WITH CONNECTOR)		* 116	4-978-785-11	PANEL, BACK (SP)	
* 102	1-659-631-11	PRIMARY BOARD		* 116	4-978-785-21	PANEL, BACK (HK)	
* 103	1-659-632-11	SECONDARY BOARD		* 117	3-703-244-00	BUSHING (2104), CORD	
* 104	4-924-098-31	HOLDER, PC BOARD		118	4-956-370-02	BAND, PLUG FIXED (HK)	
* 105	4-924-098-01	HOLDER, PC BOARD		119	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
* 106	1-659-633-11	COVER BOARD		120	1-569-008-11	ADAPTER, CONVERSION 2P (SP)	
107	4-381-962-11	SCREW +BVT 4X8 (S)		$\triangle$ CN998	1-526-794-11	OUTLET, AC	
* 108	1-661-106-11	REG BOARD		$\triangle$ CN999	1-526-794-11	OUTLET, AC	
* 109	A-4389-091-A	POWER AMPLIFIER BOARD, COMPLETE (AEP,G,IT)		$\triangle$ CNP901	1-575-651-11	CORD, POWER	
* 109	A-4389-100-A	POWER AMPLIFIER BOARD, COMPLETE (SP,HK)		$\triangle$ F901	1-532-503-51	FUSE, TIME LAG (1.6A, 250V)	
110	1-769-972-11	WIRE (FLAT TYPE)(13 CORE)		$\triangle$ F902	1-532-465-51	FUSE, TIME LAG (3.15A, 250V)(SP,HK)	
* 111	A-4389-084-A	AUDIO BOARD, COMPLETE (AEP,G,IT)		$\triangle$ F903	1-532-464-51	FUSE, TIME LAG (2.5A, 250V)	
* 111	A-4389-095-A	AUDIO BOARD, COMPLETE (SP,HK)		$\triangle$ F911	1-532-388-51	FUSE, TIME LAG (2A, 250V)	
* 112	A-4389-093-A	DSP BOARD, COMPLETE		$\triangle$ F912	1-532-388-51	FUSE, TIME LAG (2A, 250V)	
* 113	A-4389-090-A	MAIN BOARD, COMPLETE (AEP,G,IT)		$\triangle$ F913	1-532-506-51	FUSE, TIME LAG (6.3A, 250V)	
* 113	A-4389-099-A	MAIN BOARD, COMPLETE (SP,HK)		$\triangle$ F914	1-532-506-51	FUSE, TIME LAG (6.3A, 250V)	
* 114	A-4389-092-A	SPEAKER BOARD, COMPLETE (AEP,G,IT)		FAN601	1-698-209-11	MOTOR, DC FAN	
* 114	A-4389-101-A	SPEAKER BOARD, COMPLETE (SP,HK)		$\triangle$ T901	1-429-409-11	TRANSFORMER, POWER (AEP,G,IT)	
115	1-769-882-11	WIRE (FLAT TYPE)(7 CORE)		$\triangle$ T901	1-429-410-11	TRANSFORMER, POWER (SP,HK)	
* 116	4-978-785-01	PANEL, BACK (AEP,G,IT)					

AUDIO

SECTION 5 ELECTRICAL PARTS LIST

Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
G : German model
IT : Italian model
HK : Hong Kong model
SP : Singapore model

Ref. No.	Part No.	Description	Remark			
*	A-4389-084-A	AUDIO BOARD, COMPLETE(AEP,G,IT)	*****			
*	A-4389-095-A	AUDIO BOARD, COMPLETE(SP,HK)	*****			
< CAPACITOR >						
C522	1-126-059-11	ELECT	10uF	20%	50V	
C523	1-162-196-31	CERAMIC	5.6PF	10%	50V	
C525	1-126-059-11	ELECT	10uF	20%	50V	
C526	1-126-059-11	ELECT	10uF	20%	50V	
C527	1-162-284-31	CERAMIC	150PF	10%	50V	
C531	1-115-499-11	ELECT	220uF	20%	10V	
C532	1-164-159-11	CERAMIC	0.1uF		50V	
C572	1-126-059-11	ELECT	10uF	20%	50V	
C573	1-162-196-31	CERAMIC	5.6PF	10%	50V	
C575	1-126-059-11	ELECT	10uF	20%	50V	
C576	1-126-059-11	ELECT	10uF	20%	50V	
C577	1-162-284-31	CERAMIC	150PF	10%	50V	
C581	1-115-499-11	ELECT	220uF	20%	10V	
C582	1-164-159-11	CERAMIC	0.1uF		50V	
C601	1-162-282-31	CERAMIC	100PF	10%	50V	
C602	1-126-052-11	ELECT	100uF	20%	10V	
C603	1-164-159-11	CERAMIC	0.1uF		50V	
C604	1-126-052-11	ELECT	100uF	20%	10V	
C605	1-164-159-11	CERAMIC	0.1uF		50V	
C606	1-164-159-11	CERAMIC	0.1uF		50V	
C607	1-162-282-31	CERAMIC	100PF	10%	50V	
C608	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C609	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C651	1-126-044-11	ELECT	1uF	20%	50V	
C652	1-126-044-11	ELECT	1uF	20%	50V	
C931	1-126-052-11	ELECT	100uF	20%	10V	
C933	1-124-997-11	ELECT	470uF	20%	10V	

< CONNECTOR >

* CN601	1-774-629-11	CONNECTOR, BOARD TO BOARD 17P
* CN602	1-770-732-11	CONNECTOR, BOARD TO BOARD 15P
* CN603	1-568-858-11	SOCKET, CONNECTOR 15P
* CN604	1-568-856-11	SOCKET, CONNECTOR 13P
* CN605	1-565-321-11	SOCKET, CONNECTOR (PC BOARD)8P

Ref. No.	Part No.	Description	Remark
* CN606	1-565-321-11	SOCKET, CONNECTOR (PC BOARD)8P	
* CN607	1-565-321-11	SOCKET, CONNECTOR (PC BOARD)8P	
* CN608	1-691-244-11	SOCKET, CONNECTOR 10P	
* CN609	1-565-321-11	SOCKET, CONNECTOR (PC BOARD)8P	
* CN610	1-568-844-11	SOCKET, CONNECTOR 29P	
< DIODE >			
D531	8-719-987-63	DIODE 1N4148M	
D601	8-719-987-63	DIODE 1N4148M	
D603	8-719-987-63	DIODE 1N4148M	
D604	8-719-024-99	DIODE 11ES2-NTA2B	
D931	8-719-024-99	DIODE 11ES2-NTA2B	
D932	8-719-024-99	DIODE 11ES2-NTA2B	
< FERRITE BEAD >			
FB601	1-410-397-21	FERRITE BEAD INDUCTOR	
FB602	1-410-397-21	FERRITE BEAD INDUCTOR	
FB603	1-410-397-21	FERRITE BEAD INDUCTOR	
< IC >			
IC521	8-759-900-72	IC NE5532P	
IC522	8-759-900-72	IC NE5532P	
IC531	8-759-910-83	IC TL072ACP	
IC532	8-759-140-53	IC uPD4053BC	
IC601	8-759-426-76	IC HD6433927B97F	
IC602	8-759-165-80	IC PST600C-T	
IC603	8-759-962-08	IC BA6208	
< TRANSISTOR >			
Q591	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q592	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q593	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q594	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q595	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q596	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q597	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q598	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q601	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q602	8-729-900-36	TRANSISTOR DTC124ES	
Q603	8-729-900-36	TRANSISTOR DTC124ES	

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
Q604	8-729-900-36	TRANSISTOR	DTC124ES				R592	1-249-417-11	CARBON	1K	5%	1/4W	
Q605	8-729-900-36	TRANSISTOR	DTC124ES				R593	1-249-417-11	CARBON	1K	5%	1/4W	
Q606	8-729-900-36	TRANSISTOR	DTC124ES				R594	1-249-417-11	CARBON	1K	5%	1/4W	
Q607	8-729-118-00	TRANSISTOR	2SB1116-L				R595	1-249-417-11	CARBON	1K	5%	1/4W	
Q608	8-729-900-63	TRANSISTOR	DTA124ES				R596	1-249-417-11	CARBON	1K	5%	1/4W	
Q609	8-729-900-36	TRANSISTOR	DTC124ES				R597	1-249-417-11	CARBON	1K	5%	1/4W	
Q610	8-729-900-36	TRANSISTOR	DTC124ES				R598	1-249-417-11	CARBON	1K	5%	1/4W	
Q651	8-729-900-63	TRANSISTOR	DTA124ES				R601	1-249-429-11	CARBON	10K	5%	1/4W	
Q652	8-729-900-63	TRANSISTOR	DTA124ES				R602	1-249-417-11	CARBON	1K	5%	1/4W	
< RESISTOR >													
R521	1-249-417-11	CARBON	1K	5%	1/4W		R603	1-249-429-11	CARBON	10K	5%	1/4W	
R522	1-249-441-11	CARBON	100K	5%	1/4W		R604	1-249-429-11	CARBON	10K	5%	1/4W	
R523	1-249-441-11	CARBON	100K	5%	1/4W		R605	1-249-393-11	CARBON	10	5%	1/4W	
R524	1-249-441-11	CARBON	100K	5%	1/4W		R606	1-249-437-11	CARBON	47K	5%	1/4W	
R525	1-249-429-11	CARBON	10K	5%	1/4W		R607	1-247-903-00	CARBON	1M	5%	1/4W	
R526	1-249-429-11	CARBON	10K	5%	1/4W		R608	1-247-807-31	CARBON	100	5%	1/4W	
R527	1-249-441-11	CARBON	100K	5%	1/4W		R609	1-247-807-31	CARBON	100	5%	1/4W	
R528	1-249-429-11	CARBON	10K	5%	1/4W		R610	1-247-807-31	CARBON	100	5%	1/4W	
R529	1-249-429-11	CARBON	10K	5%	1/4W		R611	1-247-807-31	CARBON	100	5%	1/4W	
R531	1-249-417-11	CARBON	1K	5%	1/4W		R612	1-247-807-31	CARBON	100	5%	1/4W	
R532	1-247-903-00	CARBON	1M	5%	1/4W		R613	1-249-425-11	CARBON	4.7K	5%	1/4W	
R533	1-249-421-11	CARBON	2.2K	5%	1/4W		R614	1-249-425-11	CARBON	4.7K	5%	1/4W	
R534	1-249-429-11	CARBON	10K	5%	1/4W		R615	1-249-417-11	CARBON	1K	5%	1/4W	
R535	1-249-429-11	CARBON	10K	5%	1/4W		R616	1-247-807-31	CARBON	100	5%	1/4W	
R536	1-249-399-11	CARBON	33	5%	1/4W		R617	1-249-429-11	CARBON	10K	5%	1/4W	
R537	1-249-441-11	CARBON	100K	5%	1/4W		R618	1-249-429-11	CARBON	10K	5%	1/4W	
R538	1-249-417-11	CARBON	1K	5%	1/4W		R619	1-249-429-11	CARBON	10K	5%	1/4W	
R541	1-249-421-11	CARBON	2.2K	5%	1/4W		R620	1-247-807-31	CARBON	100	5%	1/4W	
R542	1-249-409-11	CARBON	220	5%	1/4W		R621	1-247-807-31	CARBON	100	5%	1/4W	
R543	1-249-421-11	CARBON	2.2K	5%	1/4W		R622	1-247-807-31	CARBON	100	5%	1/4W	
R544	1-249-409-11	CARBON	220	5%	1/4W		R623	1-247-807-31	CARBON	100	5%	1/4W	
R545	1-249-421-11	CARBON	2.2K	5%	1/4W		R624	1-247-807-31	CARBON	100	5%	1/4W	
R546	1-249-413-11	CARBON	470	5%	1/4W		R625	1-247-807-31	CARBON	100	5%	1/4W	
R547	1-249-421-11	CARBON	2.2K	5%	1/4W		R626	1-247-807-31	CARBON	100	5%	1/4W	
R548	1-249-413-11	CARBON	470	5%	1/4W		R627	1-247-807-31	CARBON	100	5%	1/4W	
R571	1-249-417-11	CARBON	1K	5%	1/4W		R628	1-247-807-31	CARBON	100	5%	1/4W	
R572	1-249-441-11	CARBON	100K	5%	1/4W		R629	1-247-807-31	CARBON	100	5%	1/4W	
R573	1-249-441-11	CARBON	100K	5%	1/4W		R630	1-247-807-31	CARBON	100	5%	1/4W	
R574	1-249-441-11	CARBON	100K	5%	1/4W		R631	1-247-807-31	CARBON	100	5%	1/4W	
R575	1-249-429-11	CARBON	10K	5%	1/4W		R632	1-247-807-31	CARBON	100	5%	1/4W	
R576	1-249-429-11	CARBON	10K	5%	1/4W		R633	1-247-807-31	CARBON	100	5%	1/4W	
R577	1-249-441-11	CARBON	100K	5%	1/4W		R634	1-247-807-31	CARBON	100	5%	1/4W	
R578	1-249-429-11	CARBON	10K	5%	1/4W		R635	1-247-807-31	CARBON	100	5%	1/4W	
R579	1-249-429-11	CARBON	10K	5%	1/4W		R636	1-247-807-31	CARBON	100	5%	1/4W	
R581	1-249-417-11	CARBON	1K	5%	1/4W		R637	1-247-807-31	CARBON	100	5%	1/4W	
R582	1-247-903-00	CARBON	1M	5%	1/4W		R638	1-247-807-31	CARBON	100	5%	1/4W	
R583	1-249-421-11	CARBON	2.2K	5%	1/4W		R639	1-247-807-31	CARBON	100	5%	1/4W	
R584	1-249-429-11	CARBON	10K	5%	1/4W		R640	1-247-807-31	CARBON	100	5%	1/4W	
R585	1-249-429-11	CARBON	10K	5%	1/4W		R641	1-247-807-31	CARBON	100	5%	1/4W	
R586	1-249-399-11	CARBON	33	5%	1/4W		R642	1-247-807-31	CARBON	100	5%	1/4W	
R591	1-249-417-11	CARBON	1K	5%	1/4W		R643	1-247-807-31	CARBON	100	5%	1/4W	
							R645	1-247-807-31	CARBON	100	5%	1/4W	
							R646	1-247-807-31	CARBON	100	5%	1/4W	

AUDIO

DSP

Ref. No.	Part No.	Description			Remark
R647	1-247-807-31	CARBON	100	5%	1/4W
R648	1-249-421-11	CARBON	2.2K	5%	1/4W
R649	1-249-409-11	CARBON	220	5%	1/4W
R650	1-249-417-11	CARBON	1K	5%	1/4W
R651	1-249-417-11	CARBON	1K	5%	1/4W
R652	1-249-417-11	CARBON	1K	5%	1/4W
R653	1-249-417-11	CARBON	1K	5%	1/4W
R654	1-249-421-11	CARBON	2.2K	5%	1/4W
R655	1-249-429-11	CARBON	10K	5%	1/4W
R656	1-249-417-11	CARBON	1K	5%	1/4W
R657	1-249-421-11	CARBON	2.2K	5%	1/4W
R658	1-249-429-11	CARBON	10K	5%	1/4W
R659	1-249-385-11	CARBON	2.2	5%	1/6W
		< VIBRATOR >			
X601	1-577-377-11	VIBRATOR, CERAMIC(10MHz)			

*	A-4389-093-A	DSP BOARD, COMPLETE			

		< CAPACITOR >			
C101	1-124-638-11	ELECT	22uF	20%	10V
C102	1-124-638-11	ELECT	22uF	20%	10V
C103	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C104	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C105	1-124-638-11	ELECT	22uF	20%	10V
C106	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C107	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C108	1-126-154-11	ELECT	47uF	20%	6.3V
C109	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C111	1-124-638-11	ELECT	22uF	20%	10V
C112	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C113	1-124-638-11	ELECT	22uF	20%	10V
C114	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C117	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C120	1-124-638-11	ELECT	22uF	20%	10V
C121	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C123	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C125	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C151	1-124-638-11	ELECT	22uF	20%	10V
C152	1-124-638-11	ELECT	22uF	20%	10V
C153	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C154	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C155	1-124-638-11	ELECT	22uF	20%	10V
C156	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C159	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C160	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C175	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C201	1-109-982-11	CERAMIC CHIP	1uF	10%	10V

Ref. No.	Part No.	Description	Remark		
C202	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C206	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C207	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C208	1-126-177-11	ELECT	100uF	20%	10V
C209	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C210	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C211	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C212	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C213	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C302	1-124-638-11	ELECT	22uF	20%	10V
C303	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C304	1-126-154-11	ELECT	47uF	20%	6.3V
C305	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C306	1-126-177-11	ELECT	100uF	20%	10V
C307	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C308	1-126-154-11	ELECT	47uF	20%	6.3V
C309	1-124-638-11	ELECT	22uF	20%	10V
C310	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C311	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C313	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C314	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C315	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C316	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C317	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C321	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C322	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C323	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C324	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C325	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C331	1-124-638-11	ELECT	22uF	20%	10V
C332	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C333	1-124-257-00	ELECT	2.2uF	20%	50V
C334	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C341	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C342	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C343	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C371	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C372	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C373	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C374	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C375	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C381	1-124-638-11	ELECT	22uF	20%	10V
C382	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C383	1-124-257-00	ELECT	2.2uF	20%	50V
C384	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C391	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C392	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C393	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C399	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	IC201	8-752-350-78	IC CXK58257AM-70L-T6			
C401	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	IC202	8-752-370-90	IC CXD2708Q			
C402	1-124-638-11	ELECT	22uF	20%	10V	IC301	8-759-362-47	IC CXD8567AM			
C403	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V						
C404	1-126-154-11	ELECT	47uF	20%	6.3V	IC303	8-759-636-55	IC M5218AFP			
						IC304	8-759-636-55	IC M5218AFP			
C405	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	IC305	8-759-636-55	IC M5218AFP			
C406	1-126-177-11	ELECT	100uF	20%	10V	IC401	8-759-362-47	IC CXD8567AM			
C407	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	IC403	8-759-636-55	IC M5218AFP			
C408	1-126-154-11	ELECT	47uF	20%	6.3V						
C409	1-124-638-11	ELECT	22uF	20%	10V	IC404	8-759-636-55	IC M5218AFP			
C410	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V			< COIL >			
C411	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V						
C413	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	L101	1-410-478-11	INDUCTOR 47uH			
C421	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	L102	1-410-478-11	INDUCTOR 47uH			
C422	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	L201	1-410-478-11	INDUCTOR 47uH			
						L301	1-410-478-11	INDUCTOR 47uH			
C423	1-163-243-11	CERAMIC CHIP	47PF	5%	50V						
C424	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V			< TRANSISTOR >			
C425	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V						
C426	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	Q331	8-729-107-46	TRANSISTOR 2SC3624A-L15			
C427	1-124-257-00	ELECT	2.2uF	20%	50V	Q332	8-729-107-46	TRANSISTOR 2SC3624A-L15			
						Q333	8-729-107-46	TRANSISTOR 2SC3624A-L15			
C471	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	Q381	8-729-107-46	TRANSISTOR 2SC3624A-L15			
C472	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	Q382	8-729-107-46	TRANSISTOR 2SC3624A-L15			
C473	1-163-243-11	CERAMIC CHIP	47PF	5%	50V						
C474	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	Q383	8-729-107-46	TRANSISTOR 2SC3624A-L15			
C475	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V	Q396	8-729-424-08	TRANSISTOR UN2111			
						Q397	8-729-424-08	TRANSISTOR UN2111			
C476	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	Q398	8-729-424-08	TRANSISTOR UN2111			
C477	1-124-257-00	ELECT	2.2uF	20%	50V						
		< CONNECTOR >									
						R101	1-216-081-00	METAL CHIP 22K 5% 1/10W			
CN1	1-774-782-11	PIN, CONNECTOR (PC BOARD) 10P				R102	1-216-081-91	METAL GLAZE 22K 5% 1/10W			
CN2	1-774-781-11	PIN, CONNECTOR (PC BOARD) 8P				R103	1-216-017-91	METAL GLAZE 47 5% 1/10W			
CN3	1-774-781-11	PIN, CONNECTOR (PC BOARD) 8P				R104	1-216-033-00	METAL CHIP 220 5% 1/10W			
CN4	1-774-781-11	PIN, CONNECTOR (PC BOARD) 8P				R105	1-216-017-91	METAL GLAZE 47 5% 1/10W			
CN5	1-774-781-11	PIN, CONNECTOR (PC BOARD) 8P									
						R106	1-216-017-91	METAL GLAZE 47 5% 1/10W			
		< FERRITE BEAD >				R151	1-216-081-00	METAL CHIP 22K 5% 1/10W			
						R152	1-216-081-91	METAL GLAZE 22K 5% 1/10W			
FB101	1-414-235-11	INDUCTOR, FERRITE BEAD				R201	1-216-065-00	METAL CHIP 4.7K 5% 1/10W			
FB102	1-414-235-11	INDUCTOR, FERRITE BEAD				R202	1-216-001-00	METAL CHIP 10 5% 1/10W			
FB103	1-414-235-11	INDUCTOR, FERRITE BEAD									
FB201	1-414-235-11	INDUCTOR, FERRITE BEAD				R203	1-216-041-00	METAL CHIP 470 5% 1/10W			
FB202	1-414-235-11	INDUCTOR, FERRITE BEAD				R221	1-216-033-00	METAL CHIP 220 5% 1/10W			
						R222	1-216-033-00	METAL CHIP 220 5% 1/10W			
FB301	1-414-235-11	INDUCTOR, FERRITE BEAD				R223	1-216-033-00	METAL CHIP 220 5% 1/10W			
FB302	1-414-235-11	INDUCTOR, FERRITE BEAD				R224	1-216-033-00	METAL CHIP 220 5% 1/10W			
FB303	1-414-235-11	INDUCTOR, FERRITE BEAD									
FB304	1-414-235-11	INDUCTOR, FERRITE BEAD				R225	1-216-033-00	METAL CHIP 220 5% 1/10W			
FB401	1-414-235-11	INDUCTOR, FERRITE BEAD				R226	1-216-033-00	METAL CHIP 220 5% 1/10W			
						R228	1-216-033-00	METAL CHIP 220 5% 1/10W			
FB402	1-414-235-11	INDUCTOR, FERRITE BEAD				R229	1-216-033-00	METAL CHIP 220 5% 1/10W			
FB403	1-414-235-11	INDUCTOR, FERRITE BEAD				R230	1-216-033-00	METAL CHIP 220 5% 1/10W			
		< IC >				R231	1-216-033-00	METAL CHIP 220 5% 1/10W			
						R232	1-216-033-00	METAL CHIP 220 5% 1/10W			
IC101	8-759-352-59	IC CXA8054M				R233	1-216-033-00	METAL CHIP 220 5% 1/10W			
IC102	8-759-352-63	IC CXD8566M				R234	1-216-033-00	METAL CHIP 220 5% 1/10W			

Ref. No.	Part No.	Description	Remark		
R235	1-216-033-00	METAL CHIP	220	5%	1/10W
R303	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R304	1-216-041-00	METAL CHIP	470	5%	1/10W
R305	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R306	1-216-041-00	METAL GLAZE	470	5%	1/10W
R310	1-216-079-00	METAL CHIP	18K	5%	1/10W
R311	1-216-077-00	METAL CHIP	15K	5%	1/10W
R312	1-216-079-00	METAL CHIP	18K	5%	1/10W
R313	1-216-077-00	METAL CHIP	15K	5%	1/10W
R314	1-216-079-00	METAL CHIP	18K	5%	1/10W
R315	1-216-079-00	METAL CHIP	18K	5%	1/10W
R321	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R322	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R323	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R331	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R332	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R333	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R334	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R335	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R336	1-216-043-91	METAL GLAZE	560	5%	1/10W
R337	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R341	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R342	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R343	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R360	1-216-079-00	METAL CHIP	18K	5%	1/10W
R361	1-216-077-00	METAL CHIP	15K	5%	1/10W
R362	1-216-079-00	METAL CHIP	18K	5%	1/10W
R363	1-216-077-00	METAL CHIP	15K	5%	1/10W
R364	1-216-079-00	METAL CHIP	18K	5%	1/10W
R365	1-216-079-00	METAL CHIP	18K	5%	1/10W
R371	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R372	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R373	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R381	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R382	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R383	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R384	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R385	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R386	1-216-043-91	METAL GLAZE	560	5%	1/10W
R387	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R391	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R392	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R393	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R396	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R397	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R398	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R403	1-216-295-91	CONDUCTOR, CHIP(2012)			
R410	1-216-079-00	METAL CHIP	18K	5%	1/10W
R411	1-216-077-00	METAL CHIP	15K	5%	1/10W
R412	1-216-079-00	METAL CHIP	18K	5%	1/10W
R413	1-216-077-00	METAL CHIP	15K	5%	1/10W
R414	1-216-689-11	METAL CHIP	39K	0.5%	1/10W

Ref. No.	Part No.	Description	Remark		
R415	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R421	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R422	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R423	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R424	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R460	1-216-079-00	METAL CHIP	18K	5%	1/10W
R461	1-216-077-00	METAL CHIP	15K	5%	1/10W
R462	1-216-079-00	METAL CHIP	18K	5%	1/10W
R463	1-216-077-00	METAL CHIP	15K	5%	1/10W
R464	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R465	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R471	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R472	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R473	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R474	1-216-097-91	METAL GLAZE	100K	5%	1/10W
< VIBRATOR >					
X201	1-579-069-11	VIBRATOR, CRYSTAL(49.152MHz)			
X301	1-579-314-11	VIBRATOR, CRYSTAL(22.5792MHz)			

*	1-659-630-11	HP/MIC BOARD			

< CAPACITOR >					
C792	1-162-306-11	CERAMIC	0.01uF	30%	16V
C793	1-162-306-11	CERAMIC	0.01uF	30%	16V
C794	1-164-159-11	CERAMIC	0.1uF		50V
C795	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
* CN792	1-568-828-11	SOCKET, CONNECTOR 9P			
< JACK >					
J791	1-507-854-00	JACK,PHONE(PHONES)			
J792	1-507-854-00	JACK,PHONE(MIX MIC)			

*	A-4389-090-A	MAIN BOARD, COMPLETE(AEP,G,IT)			

*	A-4389-099-A	MAIN BOARD, COMPLETE(SP,HK)			

	1-533-217-31	HOLDER, FUSE			
< CAPACITOR >					
C503	1-164-070-11	CERAMIC	100PF	5%	50V
C505	1-164-070-11	CERAMIC	100PF	5%	50V
C508	1-164-070-11	CERAMIC	100PF	5%	50V
C511	1-164-070-11	CERAMIC	100PF	5%	50V
C553	1-164-070-11	CERAMIC	100PF	5%	50V

Ref. No.	Part No.	Description	Remark		
C555	1-164-070-11	CERAMIC	100PF	5%	50V
C558	1-164-070-11	CERAMIC	100PF	5%	50V
C561	1-164-070-11	CERAMIC	100PF	5%	50V
C661	1-126-163-11	ELECT	4.7uF	20%	50V
C901	1-136-165-00	FILM	0.1uF	5%	50V
C902	1-136-165-00	FILM	0.1uF	5%	50V
C903	1-136-165-00	FILM	0.1uF	5%	50V
C904	1-136-165-00	FILM	0.1uF	5%	50V
C905	1-124-122-11	ELECT	100uF	20%	50V
C906	1-124-122-11	ELECT	100uF	20%	50V
C907	1-124-122-11	ELECT	100uF	20%	50V
C908	1-126-059-11	ELECT	10uF	20%	50V
C909	1-126-969-11	ELECT	220uF	20%	50V
C910	1-124-122-11	ELECT	100uF	20%	50V
C911	1-115-361-11	ELECT	6800uF	20%	50V
C912	1-126-041-11	ELECT	2200uF	20%	35V
C913	1-126-936-11	ELECT	3300uF	20%	16V
C914	1-126-944-11	ELECT	3300uF	20%	25V
C951	1-136-165-00	FILM	0.1uF	5%	50V
C952	1-136-165-00	FILM	0.1uF	5%	50V
C953	1-136-165-00	FILM	0.1uF	5%	50V
C961	1-115-361-11	ELECT	6800uF	20%	50V
C962	1-126-041-11	ELECT	2200uF	20%	35V
C963	1-124-556-11	ELECT	2200uF	20%	16V
< CONNECTOR >					
CN501	1-770-158-21	HOUSING, CONNECTOR 7P(SYSTEM CONTROL)			
CN506	1-691-772-11	PLUG (MICRO CONNECTOR) 10P			
CN508	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CN509	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			
* CN510	1-568-826-11	SOCKET, CONNECTOR 7P			
CN511	1-774-628-11	CONNECTOR, BOARD TO BOARD 17P			
CN512	1-766-956-11	CONNECTOR, BOARD TO BOARD 15P			
< DIODE >					
D661	8-719-987-63	DIODE	1N4148M		
D662	8-719-987-63	DIODE	1N4148M		
D663	8-719-987-63	DIODE	1N4148M		
D664	8-719-987-63	DIODE	1N4148M		
D665	8-719-987-63	DIODE	1N4148M		
D901	8-719-510-68	DIODE	D5SBA20F01		
D902	8-719-025-03	DIODE	RBA-402-SL		
D903	8-719-024-99	DIODE	11ES2-NTA2B		
D904	8-719-024-99	DIODE	11ES2-NTA2B		
D905	8-719-024-99	DIODE	11ES2-NTA2B		
D906	8-719-024-99	DIODE	11ES2-NTA2B		
D907	8-719-024-99	DIODE	11ES2-NTA2B		
D908	8-719-024-99	DIODE	11ES2-NTA2B		
D909	8-719-024-99	DIODE	11ES2-NTA2B		
D910	8-719-015-99	DIODE	UZP-27BB-TP		
D911	8-719-014-48	DIODE	UZP-4.7B		

Ref. No.	Part No.	Description	Remark			
D912	8-719-024-99	DIODE 11ES2-NTA2B				
D953	8-719-024-99	DIODE 11ES2-NTA2B				
D954	8-719-024-99	DIODE 11ES2-NTA2B				
D955	8-719-024-99	DIODE 11ES2-NTA2B				
D956	8-719-024-99	DIODE 11ES2-NTA2B				
< FUSE >						
△ F911	1-532-388-51	FUSE,TIME LAG(2A,250V)				
△ F912	1-532-388-51	FUSE,TIME LAG(2A,250V)				
△ F913	1-532-506-51	FUSE,TIME LAG(6.3A,250V)				
△ F914	1-532-506-51	FUSE,TIME LAG(6.3A,250V)				
< IC >						
IC501	8-759-000-47	IC MC14051BCP				
IC502	8-759-000-47	IC MC14051BCP				
IC503	8-759-000-48	IC MC14052BCP				
< IC LINK >						
△ ICP901	1-532-834-21	LINK, IC(0.315A)				
< JACK >						
J501	1-770-615-12	JACK, PIN 6P(TUNER IN,CD IN,MD OUT)				
J502	1-770-615-12	JACK, PIN 6P(MD IN,TAPE OUT,TAPE IN)				
J503	1-770-615-12	JACK, PIN 6P (VIDEO2 IN,VIDEO1 OUT,VIDEO1 IN)				
< TRANSISTOR >						
Q661	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q662	8-729-900-36	TRANSISTOR DTC124ES				
Q663	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q901	8-729-111-29	TRANSISTOR 2SD1616A-K				
< RESISTOR >						
R501	1-249-417-11	CARBON	1K	5%	1/4W	
R502	1-249-425-11	CARBON	4.7K	5%	1/4W	
R503	1-249-417-11	CARBON	1K	5%	1/4W	
R504	1-249-425-11	CARBON	4.7K	5%	1/4W	
R505	1-249-417-11	CARBON	1K	5%	1/4W	
R506	1-249-417-11	CARBON	1K	5%	1/4W	
R507	1-249-417-11	CARBON	1K	5%	1/4W	
R508	1-249-417-11	CARBON	1K	5%	1/4W	
R509	1-249-417-11	CARBON	1K	5%	1/4W	
R512	1-249-428-11	CARBON	8.2K	5%	1/4W	
R513	1-249-428-11	CARBON	8.2K	5%	1/4W	
R517	1-249-417-11	CARBON	1K	5%	1/4W	
R518	1-249-417-11	CARBON	1K	5%	1/4W	
R519	1-249-417-11	CARBON	1K	5%	1/4W	
R551	1-249-417-11	CARBON	1K	5%	1/4W	
R552	1-249-425-11	CARBON	4.7K	5%	1/4W	
R553	1-249-417-11	CARBON	1K	5%	1/4W	
R554	1-249-425-11	CARBON	4.7K	5%	1/4W	
R555	1-249-417-11	CARBON	1K	5%	1/4W	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

MAIN

PANEL

Ref. No.	Part No.	Description	Remark		
R556	1-249-417-11	CARBON	1K	5%	1/4W
R557	1-249-417-11	CARBON	1K	5%	1/4W
R558	1-249-417-11	CARBON	1K	5%	1/4W
R559	1-249-417-11	CARBON	1K	5%	1/4W
R562	1-249-428-11	CARBON	8.2K	5%	1/4W
R563	1-249-428-11	CARBON	8.2K	5%	1/4W
R567	1-249-417-11	CARBON	1K	5%	1/4W
R568	1-249-417-11	CARBON	1K	5%	1/4W
R569	1-249-417-11	CARBON	1K	5%	1/4W
R661	1-249-429-11	CARBON	10K	5%	1/4W
R662	1-249-429-11	CARBON	10K	5%	1/4W
R663	1-249-417-11	CARBON	1K	5%	1/4W
R664	1-249-429-11	CARBON	10K	5%	1/4W
R665	1-249-441-11	CARBON	100K	5%	1/4W
R666	1-249-417-11	CARBON	1K	5%	1/4W
R691	1-249-429-11	CARBON	10K	5%	1/4W
R692	1-249-429-11	CARBON	10K	5%	1/4W
R693	1-249-429-11	CARBON	10K	5%	1/4W
R694	1-249-417-11	CARBON	1K	5%	1/4W
R695	1-249-417-11	CARBON	1K	5%	1/4W
R696	1-249-417-11	CARBON	1K	5%	1/4W
R901	1-249-417-11	CARBON	1K	5%	1/4W
R902	1-249-425-11	CARBON	4.7K	5%	1/4W
R903	1-249-409-11	CARBON	220	5%	1/4W
R904	1-249-409-11	CARBON	220	5%	1/4W
△ R905	1-219-136-11	FUSIBLE	0.22	5%	1/4W F

*	A-4389-083-A	PANEL BOARD, COMPLETE(AEP,G,IT)	*****		
*	A-4389-094-A	PANEL BOARD, COMPLETE(SP,HK)	*****		
*	4-979-266-01	HOLDER, FL TUBE	< CAPACITOR >		
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V
C702	1-162-306-11	CERAMIC	0.01uF	30%	16V
C703	1-162-306-11	CERAMIC	0.01uF	30%	16V
C704	1-162-306-11	CERAMIC	0.01uF	30%	16V
C705	1-162-306-11	CERAMIC	0.01uF	30%	16V
C706	1-164-159-11	CERAMIC	0.1uF		50V
C710	1-124-589-11	ELECT	47uF	20%	16V
C711	1-164-159-11	CERAMIC	0.1uF		50V
C712	1-124-589-11	ELECT	47uF	20%	16V
C713	1-164-159-11	CERAMIC	0.1uF		50V
C714	1-124-584-00	ELECT	100uF	20%	10V
C715	1-164-159-11	CERAMIC	0.1uF		50V
C716	1-124-261-00	ELECT	10uF	20%	50V
C717	1-164-159-11	CERAMIC	0.1uF		50V
C722	1-164-159-11	CERAMIC	0.1uF		50V
C723	1-126-052-11	ELECT	100uF	20%	10V

Ref. No.	Part No.	Description	Remark		
C726	1-162-294-31	CERAMIC	0.001uF	10%	50V
C728	1-164-159-11	CERAMIC	0.1uF		50V
C729	1-162-306-11	CERAMIC	0.01uF	30%	16V
C730	1-162-294-31	CERAMIC	0.001uF	10%	50V
C771	1-162-294-31	CERAMIC	0.001uF	10%	50V
C772	1-126-301-11	ELECT	1uF	20%	50V
C773	1-162-282-31	CERAMIC	100PF	10%	50V
C774	1-162-282-31	CERAMIC	100PF	10%	50V
C775	1-126-301-11	ELECT	1uF	20%	50V
C776	1-162-282-31	CERAMIC	100PF	10%	50V
C777	1-164-159-11	CERAMIC	0.1uF		50V
C778	1-164-159-11	CERAMIC	0.1uF		50V
C779	1-162-282-31	CERAMIC	100PF	10%	50V
C780	1-162-282-31	CERAMIC	100PF	10%	50V
C781	1-126-301-11	ELECT	1uF	20%	50V
C782	1-124-584-00	ELECT	100uF	20%	10V
C783	1-124-584-00	ELECT	100uF	20%	10V
< CONNECTOR >					
* CN701	1-568-844-11	SOCKET, CONNECTOR 29P			
* CN703	1-568-828-11	SOCKET, CONNECTOR 9P			
< DIODE >					
D701	8-719-056-11	DIODE	SML72423C-TP4(VIDEO 1)		
D702	8-719-056-11	DIODE	SML72423C-TP4(VIDEO 2)		
D703	8-719-046-70	DIODE	SEL5620C(TAPE)		
D704	8-719-046-70	DIODE	SEL5620C(MD)		
D705	8-719-046-70	DIODE	SEL5620C(CD)		
D706	8-719-046-70	DIODE	SEL5620C(TUNER)		
D707	8-719-046-39	DIODE	SEL5821A-TH15(MUSIC MENU)		
D708	8-719-046-39	DIODE	SEL5821A-TH15(MUSIC MENU)		
D709	8-719-046-39	DIODE	SEL5821A-TH15(P.FILE)		
D710	8-719-046-39	DIODE	SEL5821A-TH15(P.FILE)		
D711	8-719-046-39	DIODE	SEL5821A-TH15(PRO LOGIC)		
D712	8-719-046-39	DIODE	SEL5821A-TH15(PRO LOGIC)		
D713	8-719-046-44	DIODE	SEL5221S(MUSIC EFFECT)		
D714	8-719-046-44	DIODE	SEL5221S(PRESENCE)		
D715	8-719-046-44	DIODE	SEL5221S(KARAOKE PON/MPX)		
D716	8-719-046-44	DIODE	SEL5221S(SOURCE DIRECT)		
D717	8-719-046-44	DIODE	SEL5221S(-20dB MUTE)		
D718	8-719-046-44	DIODE	SEL5221S(MULTI CONTROLLER)		
D719	8-719-046-44	DIODE	SEL5221S(ENTER)		
D720	8-719-046-43	DIODE	SEL5421E-TP15(NEXT)		
D721	8-719-046-44	DIODE	SEL5221S(ON/STANDBY)		
D724	8-719-024-99	DIODE	11ES2-NTA2B		
< FLUORESCENT INDICATOR >					
FL701	1-517-494-11	INDICATOR TUBE, FLUORESCENT			

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< IC >													
IC701	8-759-082-95	IC	SN755705				R735	1-249-429-11	CARBON	10K	5%	1/4W	
	8-759-082-95	IC	SN755705				R736	1-249-429-11	CARBON	10K	5%	1/4W	
	8-749-920-83	IC	GP1U52XB				R741	1-249-441-11	CARBON	100K	5%	1/4W	
	8-759-373-50	IC	NJU3719				R742	1-249-437-11	CARBON	47K	5%	1/4W	
	8-759-634-51	IC	M5218AP				R743	1-247-807-31	CARBON	100	5%	1/4W	
< TRANSISTOR >													
Q731	8-729-119-78	TRANSISTOR	2SC403SP-51				R744	1-247-807-31	CARBON	100	5%	1/4W	
Q732	8-729-119-78	TRANSISTOR	2SC403SP-51				R745	1-247-807-31	CARBON	100	5%	1/4W	
Q733	8-729-119-78	TRANSISTOR	2SC403SP-51				R746	1-247-807-31	CARBON	100	5%	1/4W	
Q734	8-729-119-78	TRANSISTOR	2SC403SP-51				R747	1-247-807-31	CARBON	100	5%	1/4W	
Q735	8-729-119-78	TRANSISTOR	2SC403SP-51				R748	1-247-807-31	CARBON	100	5%	1/4W	
Q736	8-729-119-78	TRANSISTOR	2SC403SP-51				R749	1-247-807-31	CARBON	100	5%	1/4W	
Q737	8-729-119-78	TRANSISTOR	2SC403SP-51				R771	1-249-441-11	CARBON	100K	5%	1/4W	
Q738	8-729-119-78	TRANSISTOR	2SC403SP-51				R772	1-249-417-11	CARBON	1K	5%	1/4W	
Q739	8-729-119-78	TRANSISTOR	2SC403SP-51				R773	1-249-441-11	CARBON	100K	5%	1/4W	
Q740	8-729-119-78	TRANSISTOR	2SC403SP-51				R774	1-249-417-11	CARBON	1K	5%	1/4W	
Q741	8-729-119-78	TRANSISTOR	2SC403SP-51				R775	1-249-441-11	CARBON	100K	5%	1/4W	
Q742	8-729-119-78	TRANSISTOR	2SC403SP-51				R776	1-249-433-11	CARBON	22K	5%	1/4W	
< RESISTOR >													
R701	1-249-423-11	CARBON	3.3K	5%	1/4W	< COMPOSITION CIRCUIT BLOCK >							
R702	1-249-413-11	CARBON	470	5%	1/4W	RB701	1-233-214-11	COMPOSITION CIRCUIT BLOCK					
R703	1-249-415-11	CARBON	680	5%	1/4W	RB702	1-233-020-11	COMPOSITION CIRCUIT BLOCK					
R704	1-249-423-11	CARBON	3.3K	5%	1/4W	< VARIABLE RESISTOR >							
R705	1-249-413-11	CARBON	470	5%	1/4W	RV771	1-223-974-11	RES, VAR, CARBON 50K(MIC LEVEL)					
R706	1-249-415-11	CARBON	680	5%	1/4W	< SWITCH >							
R707	1-249-417-11	CARBON	1K	5%	1/4W	S701	1-554-303-21	SWITCH, TACTILE(ON/STANDBY)					
R708	1-247-834-11	CARBON	1.3K	5%	1/4W	S702	1-554-303-21	SWITCH, TACTILE(AUDIO)					
R709	1-249-421-11	CARBON	2.2K	5%	1/4W	S703	1-554-303-21	SWITCH, TACTILE(VIDEO)					
R710	1-249-425-11	CARBON	4.7K	5%	1/4W	S704	1-554-303-21	SWITCH, TACTILE(~20dB MUTE)					
R711	1-249-423-11	CARBON	3.3K	5%	1/4W	S705	1-554-303-21	SWITCH, TACTILE(SOURCE DIRECT)					
R712	1-249-413-11	CARBON	470	5%	1/4W	S706	1-554-303-21	SWITCH, TACTILE(KARAOKE PON/MPX)					
R713	1-249-415-11	CARBON	680	5%	1/4W	S707	1-554-303-21	SWITCH, TACTILE(DISPLAY)					
R714	1-249-417-11	CARBON	1K	5%	1/4W	S708	1-554-303-21	SWITCH, TACTILE(ENTER)					
R715	1-247-834-11	CARBON	1.3K	5%	1/4W	S709	1-554-303-21	SWITCH, TACTILE(NEXT)					
R716	1-249-421-11	CARBON	2.2K	5%	1/4W	S710	1-554-303-21	SWITCH, TACTILE(CANCEL)					
R717	1-249-425-11	CARBON	4.7K	5%	1/4W	S711	1-554-303-21	SWITCH, TACTILE(MUSIC MENU)					
R719	1-249-411-11	CARBON	330	5%	1/4W	S712	1-554-303-21	SWITCH, TACTILE(P.FILE)					
R720	1-249-413-11	CARBON	470	5%	1/4W	S713	1-554-303-21	SWITCH, TACTILE(PRO LOGIC)					
R721	1-249-411-11	CARBON	330	5%	1/4W	S714	1-554-303-21	SWITCH, TACTILE(MUSIC EFFECT)					
R722	1-249-413-11	CARBON	470	5%	1/4W	S715	1-554-303-21	SWITCH, TACTILE(PRESENCE)					
R723	1-249-413-11	CARBON	470	5%	1/4W	S716	1-554-303-21	SWITCH, TACTILE(MEMORY)					
R724	1-249-403-11	CARBON	68	5%	1/4W	S717	1-554-303-21	SWITCH, TACTILE(NAME)					
R725	1-249-409-11	CARBON	220	5%	1/4W	S720	1-473-485-11	ENCODER, ROTARY(MULTI CONTOLLER)					
R726	1-249-409-11	CARBON	220	5%	1/4W	*****							
R727	1-249-409-11	CARBON	220	5%	1/4W								
R728	1-249-409-11	CARBON	220	5%	1/4W								
R729	1-247-807-31	CARBON	100	5%	1/4W								
R730	1-249-409-11	CARBON	220	5%	1/4W								
R731	1-249-409-11	CARBON	220	5%	1/4W								

POWER AMPLIFIER

Ref. No.	Part No.	Description	Remark			
*	A-4389-091-A	POWER AMPLIFIER BOARD, COMPLETE(AEP,G,IT)	*****			
*	A-4389-100-A	POWER AMPLIFIER BOARD, COMPLETE(SP,HK)	*****			
		< CAPACITOR >				
C801	1-126-233-11	ELECT	22uF	20%	50V	
C802	1-162-282-31	CERAMIC	100PF	10%	50V	
C803	1-124-122-11	ELECT	100uF	20%	50V	
C804	1-126-868-11	ELECT	47uF	20%	50V	
C805	1-124-122-11	ELECT	100uF	20%	50V	
C806	1-126-233-11	ELECT	22uF	20%	50V	
C807	1-136-165-00	FILM	0.1uF	5%	50V	
C808	1-136-165-00	FILM	0.1uF	5%	50V	
C809	1-126-233-11	ELECT	22uF	20%	50V	
C811	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C821	1-126-052-11	ELECT	100uF	20%	10V	
C822	1-126-059-11	ELECT	10uF	20%	50V	
C823	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C824	1-164-159-11	CERAMIC	0.1uF		50V	
C831	1-126-045-11	ELECT	2.2uF	20%	50V	
C832	1-162-282-31	CERAMIC	100PF	10%	50V	
C833	1-126-868-11	ELECT	47uF	20%	50V	
C834	1-126-233-11	ELECT	22uF	20%	50V	
C836	1-126-233-11	ELECT	22uF	20%	50V	
C837	1-164-159-11	CERAMIC	0.1uF		50V	
C838	1-164-159-11	CERAMIC	0.1uF		50V	
C839	1-126-233-11	ELECT	22uF	20%	50V	
C840	1-126-233-11	ELECT	22uF	20%	50V	
C841	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C851	1-126-233-11	ELECT	22uF	20%	50V	
C852	1-162-282-31	CERAMIC	100PF	10%	50V	
C853	1-124-122-11	ELECT	100uF	20%	50V	
C854	1-126-868-11	ELECT	47uF	20%	50V	
C855	1-124-122-11	ELECT	100uF	20%	50V	
C857	1-136-165-00	FILM	0.1uF	5%	50V	
C858	1-136-165-00	FILM	0.1uF	5%	50V	
C859	1-126-233-11	ELECT	22uF	20%	50V	
C881	1-126-045-11	ELECT	2.2uF	20%	50V	
C882	1-162-282-31	CERAMIC	100PF	10%	50V	
C883	1-126-868-11	ELECT	47uF	20%	50V	
C884	1-126-233-11	ELECT	22uF	20%	50V	
C887	1-164-159-11	CERAMIC	0.1uF		50V	
C888	1-164-159-11	CERAMIC	0.1uF		50V	
C889	1-126-233-11	ELECT	22uF	20%	50V	
		< CONNECTOR >				
* CN801	1-568-832-11	SOCKET, CONNECTOR 13P				
CN803	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				

Ref. No.	Part No.	Description	Remark			
		< DIODE >				
D801	8-719-987-63	DIODE 1N4148M				
D802	8-719-987-63	DIODE 1N4148M				
D821	8-719-987-63	DIODE 1N4148M				
D822	8-719-987-63	DIODE 1N4148M				
D823	8-719-987-63	DIODE 1N4148M				
D831	8-719-987-63	DIODE 1N4148M				
D832	8-719-987-63	DIODE 1N4148M				
D833	8-719-987-63	DIODE 1N4148M				
D851	8-719-987-63	DIODE 1N4148M				
D881	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC801	8-749-900-24	IC STK-4162MK2				
IC831	8-749-920-13	IC STK-4132MK2				
		< TRANSISTOR >				
Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q821	8-729-900-63	TRANSISTOR DTA124ES				
Q822	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q823	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q824	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q825	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q826	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q827	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q831	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q881	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q891	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q892	8-729-900-36	TRANSISTOR DTC124ES				
		< RESISTOR >				
R801	1-249-417-11	CARBON 1K	5%	1/4W		
R802	1-249-438-11	CARBON 56K	5%	1/4W		
R803	1-249-414-11	CARBON 560	5%	1/4W		
R804	1-249-438-11	CARBON 56K	5%	1/4W		
R805	1-260-103-11	CARBON 2.2K	5%	1/2W		
R806	1-260-103-11	CARBON 2.2K	5%	1/2W		
△ R807	1-212-881-11	FUSIBLE 100	5%	1/4W	F	
△ R808	1-217-151-00	METAL PLATE 0.22	10%	2W	F	
R809	1-260-076-11	CARBON 10	5%	1/2W		
△ R810	1-212-849-00	FUSIBLE 4.7	5%	1/4W	F	
R811	1-249-417-11	CARBON 1K	5%	1/4W		
R812	1-249-431-11	CARBON 15K	5%	1/4W		
R813	1-249-441-11	CARBON 100K	5%	1/4W		
R814	1-260-103-11	CARBON 2.2K	5%	1/2W		
R815	1-260-103-11	CARBON 2.2K	5%	1/2W		
R816	1-260-103-11	CARBON 2.2K	5%	1/2W		
R817	1-260-103-11	CARBON 2.2K	5%	1/2W		
R818	1-249-437-11	CARBON 47K	5%	1/4W		
R819	1-249-441-11	CARBON 100K	5%	1/4W		
R822	1-249-441-11	CARBON 100K	5%	1/4W		

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

POWER AMPLIFIER

PRIMARY

Ref. No.	Part No.	Description			Remark
R823	1-249-429-11	CARBON	10K	5%	1/4W
R824	1-249-441-11	CARBON	100K	5%	1/4W
R825	1-249-441-11	CARBON	100K	5%	1/4W
R826	1-249-425-11	CARBON	4.7K	5%	1/4W
R827	1-249-441-11	CARBON	100K	5%	1/4W
R828	1-249-425-11	CARBON	4.7K	5%	1/4W
R829	1-249-429-11	CARBON	10K	5%	1/4W
R831	1-249-417-11	CARBON	1K	5%	1/4W
R832	1-249-438-11	CARBON	56K	5%	1/4W
R833	1-249-412-11	CARBON	390	5%	1/4W
R834	1-249-438-11	CARBON	56K	5%	1/4W
R835	1-260-103-11	CARBON	2.2K	5%	1/2W
R836	1-260-103-11	CARBON	2.2K	5%	1/2W
△ R838	1-217-151-00	METAL PLATE	0.22	10%	2W F
R839	1-260-076-11	CARBON	10	5%	1/2W
△ R840	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R841	1-249-417-11	CARBON	1K	5%	1/4W
R842	1-249-431-11	CARBON	15K	5%	1/4W
R843	1-249-441-11	CARBON	100K	5%	1/4W
R844	1-260-099-11	CARBON	1K	5%	1/2W
R845	1-260-099-11	CARBON	1K	5%	1/2W
R846	1-249-441-11	CARBON	100K	5%	1/4W
R847	1-249-441-11	CARBON	100K	5%	1/4W
R848	1-249-437-11	CARBON	47K	5%	1/4W
R849	1-249-433-11	CARBON	22K	5%	1/4W
R851	1-249-417-11	CARBON	1K	5%	1/4W
R852	1-249-438-11	CARBON	56K	5%	1/4W
R853	1-249-414-11	CARBON	560	5%	1/4W
R854	1-249-438-11	CARBON	56K	5%	1/4W
R855	1-260-103-11	CARBON	2.2K	5%	1/2W
R856	1-260-103-11	CARBON	2.2K	5%	1/2W
△ R857	1-212-881-11	FUSIBLE	100	5%	1/4W F
△ R858	1-217-151-00	METAL PLATE	0.22	10%	2W F
R859	1-260-076-11	CARBON	10	5%	1/2W
R861	1-249-417-11	CARBON	1K	5%	1/4W
R862	1-249-431-11	CARBON	15K	5%	1/4W
R863	1-249-441-11	CARBON	100K	5%	1/4W
R868	1-249-438-11	CARBON	56K	5%	1/4W
△ R871	1-212-857-00	FUSIBLE	10	5%	1/4W F
R881	1-249-417-11	CARBON	1K	5%	1/4W
R882	1-249-438-11	CARBON	56K	5%	1/4W
R883	1-249-412-11	CARBON	390	5%	1/4W
R884	1-249-438-11	CARBON	56K	5%	1/4W
R885	1-260-103-11	CARBON	2.2K	5%	1/2W
R886	1-260-103-11	CARBON	2.2K	5%	1/2W
△ R888	1-217-151-00	METAL PLATE	0.22	10%	2W F
R889	1-260-076-11	CARBON	10	5%	1/2W
R891	1-249-417-11	CARBON	1K	5%	1/4W
R892	1-249-431-11	CARBON	15K	5%	1/4W
R893	1-249-441-11	CARBON	100K	5%	1/4W
R894	1-249-441-11	CARBON	100K	5%	1/4W
R895	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R896	1-247-864-11	CARBON	24K	5%	1/4W
R898	1-249-438-11	CARBON	56K	5%	1/4W
		< RELAY >			
RY801	1-515-920-11	RELAY (24V)			
RY831	1-515-920-11	RELAY (24V)			
RY833	1-515-360-21	RELAY			
		< THERMISTOR >			
TH891	1-807-796-11	THERMISTOR			

*	1-659-631-11	PRIMARY BOARD			

	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
△ C991	1-113-925-11	ELECT	0.01uF	20%	250V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR 2P			
* CN904	1-564-518-11	PLUG, CONNECTOR 3P			
CN991	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
CN992	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D991	8-719-987-63	DIODE 1N4148M			
		< FUSE >			
△ F901	1-532-503-51	FUSE, TIME LAG(1.6A, 250V)			
△ F903	1-532-464-51	FUSE, TIME LAG(2.5A, 250V)			
△ F902	1-532-465-51	FUSE, TIME LAG(3.15A, 250V)(SP, HK)			
		< RELAY >			
△ RY991	1-755-065-11	RELAY			
		< SWITCH >			
△ S901	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(SP, HK)			
		< TRANSFORMER >			
△ T901	1-429-409-11	TRANSFORMER, POWER(AEP, G, IT)			
△ T901	1-429-410-11	TRANSFORMER, POWER(SP, HK)			

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

REG	SECONDARY	SPEAKER
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Ref. No.	Part No.	Description	Remark			
*	1-661-106-11	REG BOARD *****				
		< CAPACITOR >				
C921	1-164-159-11	CERAMIC	0.1uF		50V	
C922	1-126-177-11	ELECT	100uF	20%	10V	
C923	1-164-159-11	CERAMIC	0.1uF		50V	
C924	1-124-635-00	ELECT	220uF	20%	6.3V	
C925	1-124-635-00	ELECT	220uF	20%	6.3V	
C971	1-164-159-11	CERAMIC	0.1uF		50V	
C972	1-126-177-11	ELECT	100uF	20%	10V	
		< DIODE >				
D921	8-719-024-99	DIODE 11ES2-NTA2B				
		< IC >				
IC921	8-759-604-86	IC M5F7807L				
IC922	8-759-231-53	IC TA7805S				
IC971	8-759-604-90	IC M5F7907L				

*	1-659-632-11	SECONDARY BOARD *****				
		< CONNECTOR >				
CN902	1-691-767-31	PLUG (MICRO CONNECTOR) 5P				
CN903	1-691-769-31	PLUG (MICRO CONNECTOR) 7P				

*	A-4389-092-A	SPEAKER BOARD, COMPLETE(AEP,G,IT) *****				
*	A-4389-101-A	SPEAKER BOARD, COMPLETE(SP,HK) *****				
		< CAPACITOR >				
C671	1-126-059-11	ELECT	10uF	20%	50V	
C751	1-126-012-11	ELECT	470uF	20%	16V	
C752	1-126-012-11	ELECT	470uF	20%	16V	
C753	1-126-059-11	ELECT	10uF	20%	50V	
C754	1-126-052-11	ELECT	100uF	20%	10V	
C755	1-126-059-11	ELECT	10uF	20%	50V	
C756	1-126-059-11	ELECT	10uF	20%	50V	
C1001	1-136-153-00	FILM	0.01uF	5%	50V	
C1002	1-136-153-00	FILM	0.01uF	5%	50V	
C1003	1-136-153-00	FILM	0.01uF	5%	50V	
C1004	1-136-153-00	FILM	0.01uF	5%	50V	
C1005	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1006	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1007	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1008	1-162-306-11	CERAMIC	0.01uF	30%	16V	

Ref. No.	Part No.	Description	Remark			
C1009	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1010	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1011	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
* CN1001	1-564-520-11	PLUG, CONNECTOR 5P				
* CN1002	1-564-521-11	PLUG, CONNECTOR 6P				
* CN1003	1-564-518-11	PLUG, CONNECTOR 3P				
* CN1004	1-568-850-11	SOCKET, CONNECTOR 7P				
		< DIODE >				
D671	8-719-987-63	DIODE 1N4148M				
D672	8-719-987-63	DIODE 1N4148M				
D673	8-719-987-63	DIODE 1N4148M				
D674	8-719-987-63	DIODE 1N4148M				
D675	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC751	8-759-140-53	IC uPD4053BC				
		< JACK >				
J751	1-565-934-11	JACK, PIN 2P(VIDEO1 IN,MONITOR OUT)				
J752	1-565-934-11	JACK, PIN 2P(VIDEO2 IN,VIDEO1 OUT)				
J1001	1-569-662-11	JACK, PIN 1P(SUPER WOOFER)				
		< COIL >				
L751	1-408-405-00	INDUCTOR 4.7uH				
L1001	1-420-872-00	COIL, AIR-CORE				
L1002	1-420-872-00	COIL, AIR-CORE				
L1003	1-420-872-00	COIL, AIR-CORE				
L1004	1-420-872-00	COIL, AIR-CORE				
L1005	1-420-872-00	COIL, AIR-CORE				
		< TRANSISTOR >				
Q671	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q672	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q673	8-729-118-00	TRANSISTOR 2SB1116-L				
Q674	8-729-118-00	TRANSISTOR 2SB1116-L				
Q751	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q752	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q753	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q754	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q755	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q756	8-729-119-78	TRANSISTOR 2SC403SP-51				
		< RESISTOR >				
R671	1-249-441-11	CARBON	100K	5%	1/4W	
R672	1-249-441-11	CARBON	100K	5%	1/4W	
R673	1-249-441-11	CARBON	100K	5%	1/4W	
R674	1-249-441-11	CARBON	100K	5%	1/4W	
R675	1-249-441-11	CARBON	100K	5%	1/4W	
R676	1-249-429-11	CARBON	10K	5%	1/4W	
R677	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description			Remark
R678	1-260-096-11	CARBON	560	5%	1/2W
R679	1-260-096-11	CARBON	560	5%	1/2W
R680	1-260-096-11	CARBON	560	5%	1/2W
R681	1-260-096-11	CARBON	560	5%	1/2W
R682	1-249-441-11	CARBON	100K	5%	1/4W
R751	1-249-409-11	CARBON	220	5%	1/4W
R752	1-249-409-11	CARBON	220	5%	1/4W
R753	1-249-418-11	CARBON	1.2K	5%	1/4W
R754	1-249-417-11	CARBON	1K	5%	1/4W
R755	1-249-421-11	CARBON	2.2K	5%	1/4W
R756	1-249-411-11	CARBON	330	5%	1/4W
R757	1-249-433-11	CARBON	22K	5%	1/4W
R758	1-249-429-11	CARBON	10K	5%	1/4W
R759	1-249-441-11	CARBON	100K	5%	1/4W
R760	1-249-441-11	CARBON	100K	5%	1/4W
R761	1-249-417-11	CARBON	1K	5%	1/4W
R762	1-249-417-11	CARBON	1K	5%	1/4W
R763	1-247-804-11	CARBON	75	5%	1/4W
R764	1-247-804-11	CARBON	75	5%	1/4W
R765	1-249-413-11	CARBON	470	5%	1/4W
R766	1-247-804-11	CARBON	75	5%	1/4W
R767	1-247-804-11	CARBON	75	5%	1/4W
R768	1-249-413-11	CARBON	470	5%	1/4W
R1001	1-260-076-11	CARBON	10	5%	1/2W
R1002	1-260-076-11	CARBON	10	5%	1/2W
R1003	1-260-076-11	CARBON	10	5%	1/2W
R1004	1-260-076-11	CARBON	10	5%	1/2W
R1005	1-260-076-11	CARBON	10	5%	1/2W
R1006	1-260-076-11	CARBON	10	5%	1/2W
R1007	1-260-076-11	CARBON	10	5%	1/2W
R1008	1-260-076-11	CARBON	10	5%	1/2W
R1009	1-260-076-11	CARBON	10	5%	1/2W
R1010	1-260-076-11	CARBON	10	5%	1/2W
R1011	1-249-421-11	CARBON	2.2K	5%	1/4W
R1012	1-249-437-11	CARBON	47K	5%	1/4W
R1013	1-249-437-11	CARBON	47K	5%	1/4W
R1014	1-249-437-11	CARBON	47K	5%	1/4W
< TERMINAL >					
TM1001	1-537-822-21	TERMINAL BOARD(FRONT SPEAKER)			
TM1002	1-537-336-41	TERMINAL BOARD (REAR SPEAKEAR,CENTER SPEAKER)			

*	1-659-629-11	VOL BOARD *****			
< CAPACITOR >					
C791	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
* CN791	1-568-834-11	SOCKET, CONNECTOR 15P			

Ref. No.	Part No.	Description	Remark			
< RESISTOR >						
R791	1-249-411-11	CARBON	330	5%	1/4W	
R792	1-249-441-11	CARBON	100K	5%	1/4W	
< VARIABLE RESISTOR >						
RV791	1-223-809-11	RES, VAR, CARBON 100KX4(VOLUME)				

MISCELLANEOUS						

4	1-773-004-11	WIRE (FLAT TYPE)(15 CORE)				
11	1-777-115-11	WIRE (FLAT TYPE)(29 CORE)				
12	1-769-910-11	WIRE (FLAT TYPE)(9 CORE)				
* 101	1-776-530-11	CORD (WITH CONNECTOR)				
110	1-769-972-11	WIRE (FLAT TYPE)(13 CORE)				
115	1-769-882-11	WIRE (FLAT TYPE)(7 CORE)				
119	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)				
120	1-569-008-11	ADAPTER, CONVERSION 2P (SP)				
△ CN998	1-526-794-11	OUTLET, AC				
△ CN999	1-526-794-11	OUTLET, AC				
△ CNP901	1-575-651-11	CORD, POWER				
△ F901	1-532-503-51	FUSE, TIME LAG (1.6A, 250V)				
△ F902	1-532-465-51	FUSE, TIME LAG (3.15A, 250V)(SP,HK)				
△ F903	1-532-464-51	FUSE, TIME LAG (2.5A, 250V)				
△ F911	1-532-388-51	FUSE, TIME LAG (2A, 250V)				
△ F912	1-532-388-51	FUSE, TIME LAG (2A, 250V)				
△ F913	1-532-506-51	FUSE, TIME LAG (6.3A, 250V)				
△ F914	1-532-506-51	FUSE, TIME LAG (6.3A, 250V)				
FAN601	1-698-209-11	MOTOR, DC FAN				
FL701	1-517-494-11	INDICATOR TUBE, FLUORESCENT				
△ T901	1-429-409-11	TRANSFORMER, POWER (AEP,G,IT)				
△ T901	1-429-410-11	TRANSFORMER, POWER (SP,HK)				

ACCESSORIES & PACKING MATERIALS						

*	4-980-537-01	CUSHION (UPPER)				
*	4-980-538-01	CUSHION (LOWER)				

HARDWARE LIST						

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S				
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S				
#3	7-685-871-01	SCREW +BVTT 3X6 (S)				
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3				

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

