TA-H7900E

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

TA-H7900E is the PREAMPLIFIER section in MHC-7900/ P100X

Photo : AEP model

SPECIFICATIONS

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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Preamplifier

US, CND, E, AUS, EA, MY, SP, JE MODEL :
Continuous RMS power output
REAR: 18 + 18 watts (8 ohms, at 1 kHz, 5% THD)
Peak music power output
200 watts (2 speakers driven)

AEP, UK, G, IT MODEL :
Continuous RMS power output
REAR: 15 + 15 watts (8 ohms, at 1 kHz, DIN)
REAR: 18 + 18 watts (8 ohms, at 1 kHz, 5% THD)

Audio inputs

ALL MODEL :
TUNER (phono jacks):
TAPE (phono jacks):
sensitivity 400 mV,
impedance 47 kilohms
CD (phono jacks):
VIDEO 1 (phono jacks):

US, CND, E, AUS, EA, MY, SP, JE MODEL :
VIDEO 2 (phono jacks):
MD/DAT (phono jacks):
sensitivity 250 mV,
impedance 47 kilohms

AEP, UK, G, IT MODEL :
VIDEO 2/MD/DAT (phono jacks):
sensitivity 250 mV,
impedance 47 kilohms

AEP, UK, G, IT MODEL :
PHONO (phono jack):
Sensitivity 5 mV,
impedance 47 kilohms

ALL MODEL :
MIX MIC (mini jack):
Sensitivity 1 mV,
impedance 600 ohms

Video inputs

ALL MODEL :
VIDEO 1 (phono jacks):

US, CND, E, AUS, EA, MY, SP, JE MODEL :
VIDEO 2 (phono jacks):
MD/DAT (phono jacks):
1 Vp-p/75 ohms unbalanced, sync negative

AEP, UK, G, IT MODEL :
VIDEO 2/MD/DAT (phono jacks):
1 Vp-p/75 ohms unbalanced, sync negative

Audio outputs

ALL MODEL :
TAPE (phono jacks):
VIDEO 1 (phono jacks):

US, CND, E, AUS, EA, MY, SP, JE MODEL :
VIDEO 2 (phono jacks):

US, CND, E, AUS, EA, MY, SP, JE MODEL :
MD/DAT (phono jacks):
voltage 260 mV
impedance 2 kilohms

— Continued on next page —

PREAMPLIFIER

SONY

AEP, UK, G, IT MODEL : VIDEO 2/MD/DAT (phono jacks): voltage 260mV impedance 2 kilohms

ALL MODEL : HEADPHONES (stereo mini jack): accepts headphones of 8 ohms or more
FRONT SPEAKER (phono jack): impedance 1 kilohm
REAR SPEAKER (phono jack): accepts speakers of 8 to 16 ohms
CENTER SPEAKER (phono jack): accepts impedance of 6 to 16 ohms
SUPER WOOFER (phono jack): impedance 10 kilohms

Video outputs

ALL MODEL : VIDEO 1 (phono jacks):

US, CND, E, AUS, EA, MY, SP, JE MODEL : VIDEO 2 (phono jacks):

MD/DAT (phono jacks):

AEP, UK, G, IT MODEL : VIDEO 2/MD/DAT (phono jacks):
MONITOR OUT (phono jacks): 1 Vp-p/75ohms unbalanced, sync negative

Dimensions

Approx. 225 x 130 x 250 mm (w/h/d)
(8 7/8 x 5 1/8 x 9 7/8 inches)

Mass Approx. 4.1 kg (9 lb)

General

Power requirements
120V 60 Hz (US, CND MODEL)
220 – 230 V 50/60 Hz
(AEP, G, IT MODEL)
240 V 50 Hz (UK MODEL)
110 – 120 V / 220 – 240 V
AC adjustable 50/60 Hz
(E, AUS, EA, MY, SP, JE MODEL)

Power cosumption
80 W (TA-H7900E only)

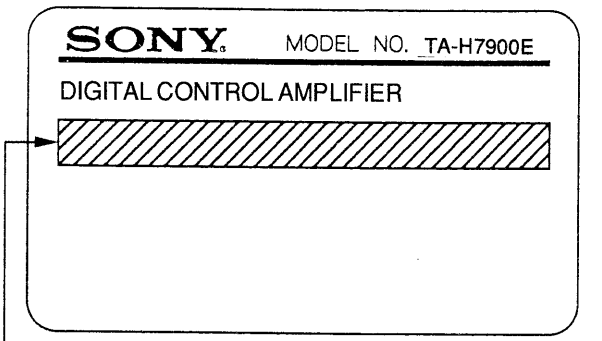
Design and specifications subject to change without notice.

Note :

- CND : Canadian model.
  G : German model.
  IT : Italian model.
  EA : Saudi Arabia model.
  AUS : Australian model.
  SP : Singapore model.
  MY : Malaysia model.
  JE : Tourist model.

– MODEL IDENTIFICATION –

(Specification Label)



- US, CND model : AC : 120V 60Hz 80W
- AEP model : AC : 220 – 230V ~ 50/60Hz 80W
- G, IT model : AC : 220 – 230V ~ 50Hz 80W
- UK model : AC : 240V ~ 50Hz
- E, AUS, EA, MY, SP, JE model : AC : 110 – 120V/220 –240V ~ 50/60Hz 80W

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

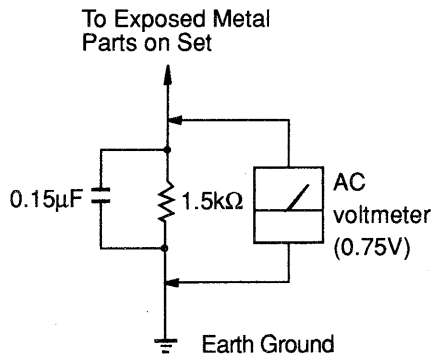


Fig. A. Using an AC voltmeter to check AC leakage.

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SAFETY-RELATED COMPONENT WARNING!!

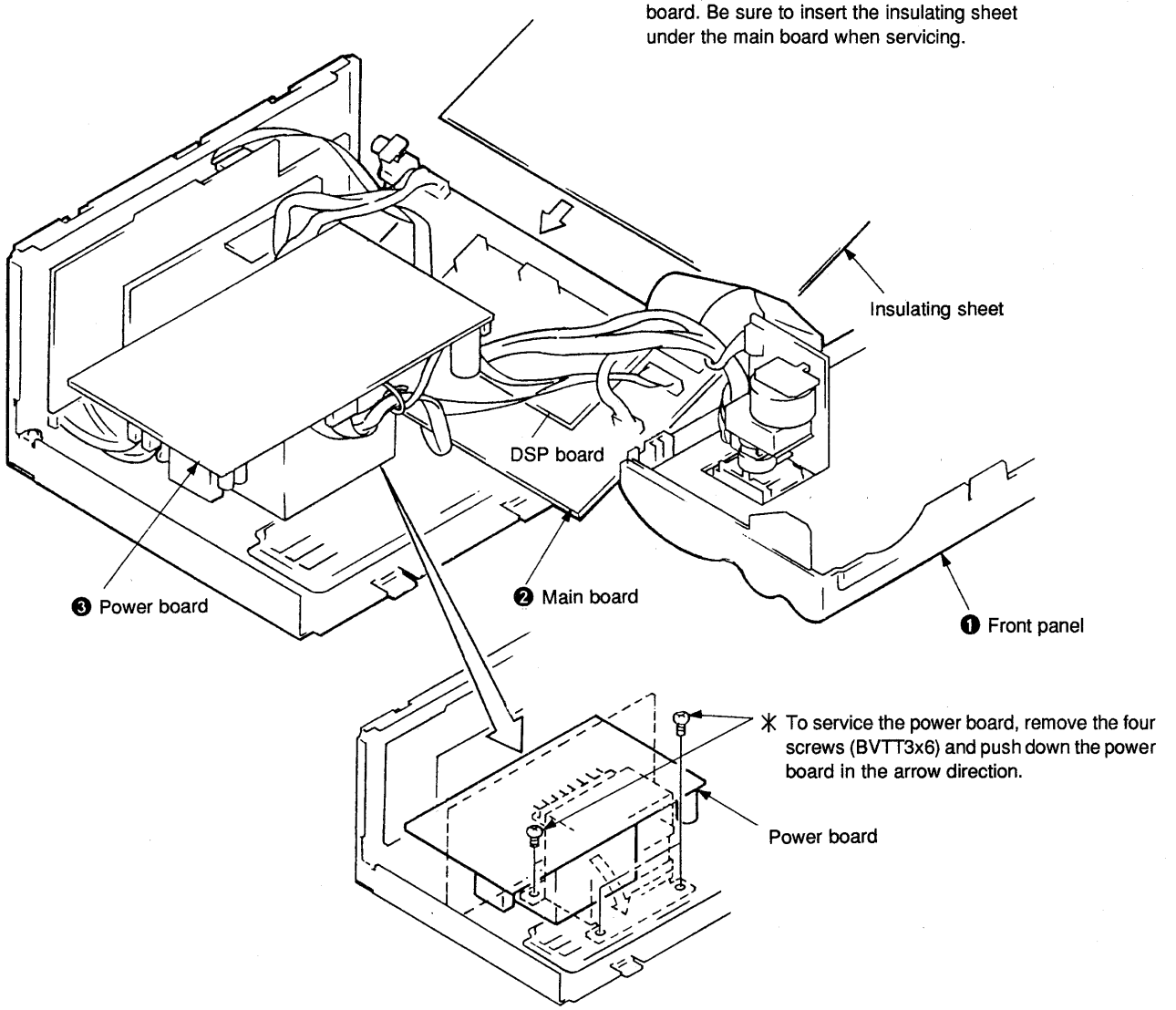
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTE

✳ Open the unit as shown below, and service the main board, DSP boards, and power board. Be sure to insert the insulating sheet under the main board when servicing.



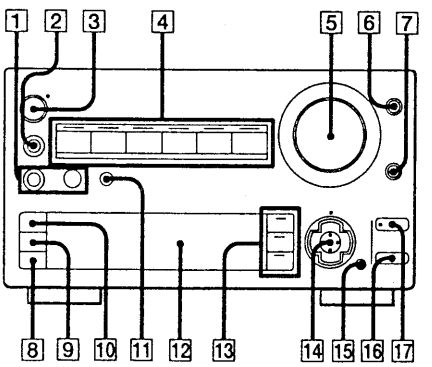
✳ To service the power board, remove the four screws (BVTT3x6) and push down the power board in the arrow direction.

Power board

SECTION 2
GENERAL

This section is extracted from instruction manual.

Preamplifier



ALL MODEL:

[1] MIX MIC jack (mini jack) (27)
MIC LEVEL control (27)
[2] HEADPHONES jack (stereo mini jack) (28)
[3] SYSTEM POWER switch and ON/STANDBY indicator (7)
The indicator remains lit as long as the AC power cord is connected to a wall outlet.

AEP,UK,G,IT MODEL:

[4] FUNCTION buttons* (17, 27)
VIDEO 1 (28)
VIDEO 2/MD/DAT (27)
TAPE (17)
CD (13)
TUNER (23)
PHONO (28)

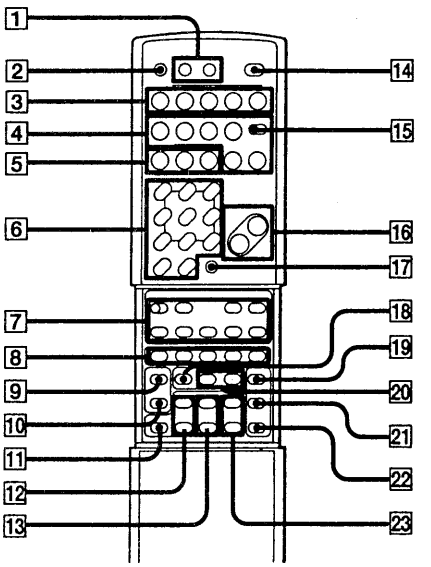
US, CND, E, AUS, EA, MY,SP,JE MODEL:

[4] FUNCTION buttons* (17, 27)
VIDEO 1 (28)
VIDEO 2/MD/DAT (27)
TAPE (17)
CD (13)
TUNER (23)
PHONO (28)

ALL MODEL:

[5] VOLUME control (7, 23)
[6] PROGRAM FUNCTION button (23)
[7] DIRECT button* (18)
[8] DISPLAY button (19)
[9] DSP CONTROL button (19, 20, 23)
[10] DSP MENU button (18)
[11] KARAOKE PON button* (27)
[12] Display window (19)
[13] AI operation buttons*
AI PEQ (parametric equalizer) (21)
AI LPC (listening point control) (22)
AI CONDITION (22)
[14] CURSOR CONTROL* (18)
[15] MEMORY button (21)
[16] CANCEL button (18)
[17] ENTER button* (18)

Remote commander



[1] TAPE DECK A/B buttons (12)
[2] SLEEP button (25)
[3] CD/MD operating buttons (7, 16)
[4] Cassette deck operating buttons (12)
[5] Tuner operating buttons (11)
[6] CD/Tuner/LPC numeric buttons (8, 11, 22)
[7] VCR operating buttons (28)
[8] TV operating buttons (28)
[9] AUDIO FUNCTION button (28)
[10] VIDEO FUNCTION button (28)
[11] TEST TONE button (23)
[12] REAR LEVEL +/– buttons (23)
[13] CENTER LEVEL +/– buttons (23)
[14] SYSTEM POWER switch (7)
[15] CD/MD switch (7)
[16] VOLUME +/– buttons (7)
[17] LPC (Listening point control) button (22)
[18] DIRECT button (18)
[19] CHECK button (8)
[20] MENU +/– button (18)
[21] CLEAR button (8)
[22] REPEAT button (9)
[23] DELAY TIME +/- button (23)

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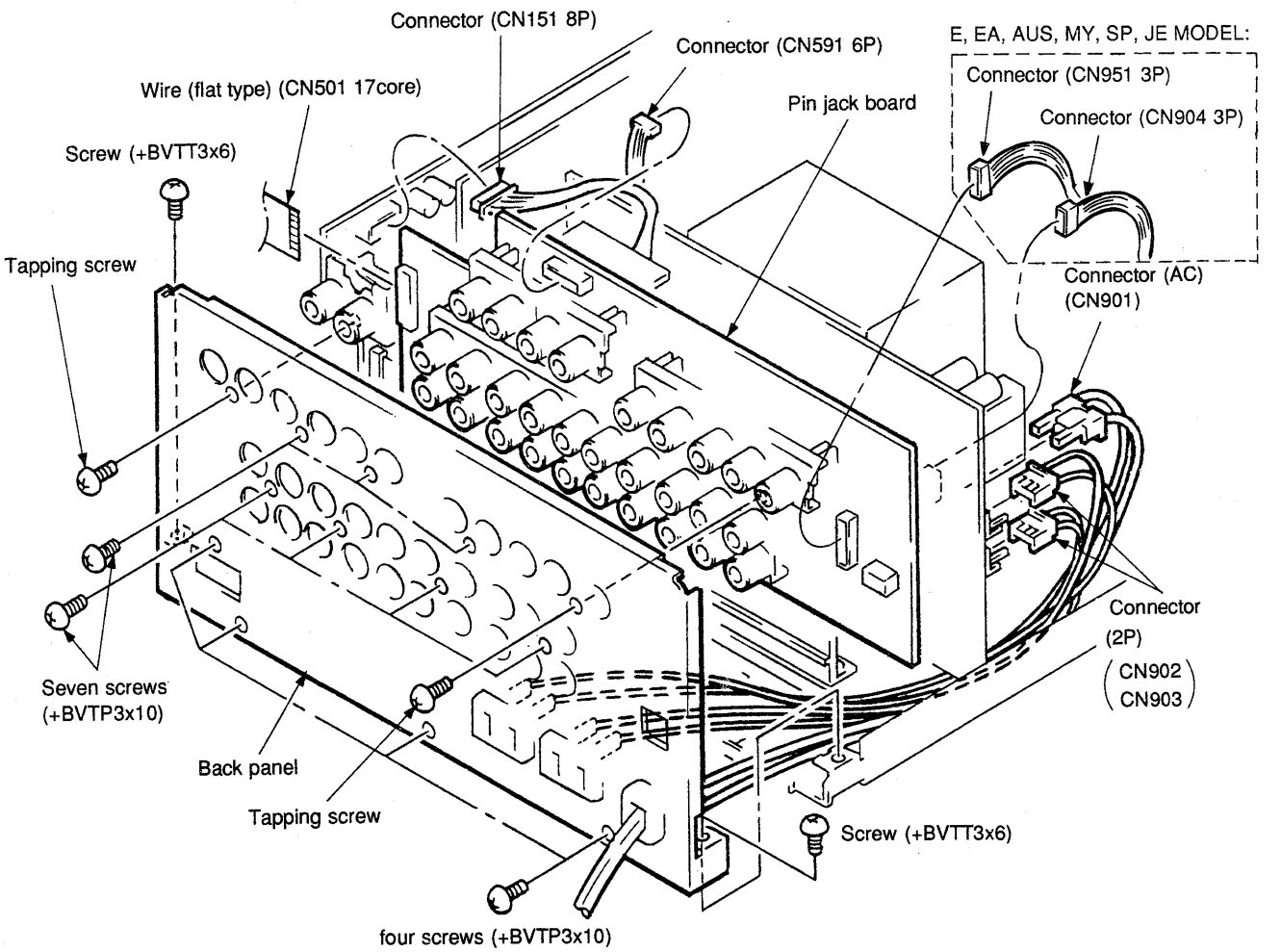
  AUS : Australian model.
  SP : Singapore model.
  MY : Malaysia model.
  JE : Tourist model.

SECTION 3
DISASSEMBLY

3-1. BACKPANEL AND PIN JACK BOARD



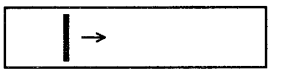
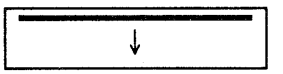
Note :

- EA : Saudi Arabia model.
  AUS : Australian model.
  SP : Singapore model.
  MY : Malaysia model.
  JE : Tourist model.

SECTION 4
TEST MODE

The main unit has a test mode, which is used mainly for checking the DSP, its related functions, and the display. In steps 1 to 4, the waveform of the rear output is the same as that of the front output. Therefore, AMP (IC801) and its related functions can easily be checked using the rear DAC (IC401). Use this function also when the FL or LED display is faulty. (D768 to D771 are parallel connected and will therefore appear slightly dim.)

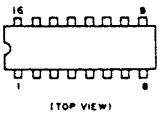
- **Entering the test mode**
  To enter the test mode, press the [DISPLAY], [MEMORY], and [PROGRAM FUNCTION] buttons simultaneously (or transfer "FFE9" code from the AUBUS line). Hereafter, each time these three buttons are pressed simultaneously (or "FFE9" code is transferred from the AUBUS line), the test mode will proceed onto the next step.
- **Exiting the test mode**
  Press the [SYSTEM POWER] button in the test mode. The test mode jumps to step 7, and returns to the STANDBY mode. The test mode can also be exited by resetting the microprocessor such as by pulling out the AC code.

Step	Output level	Display
1	FRONT level: 0 dB, REAR level: –6 dB	"TEST MODE" is displayed for about 4 seconds.
2	FRONT level: +2 dB, REAR level: +6 dB	Scrolls horizontally. All LEDs light. 
3	FRONT level: +4 dB, REAR level: +6 dB	Scrolls vertically. All LEDs light. 
4	FRONT level: +8 dB, REAR level: +6 dB	All displays light. All LEDs light.
5	DOLBY PROLOGIC WIDE mode	Level meter is displayed. All LEDs light.
6	ROCK mode (SURROUND MAX, reverberation check)	DSP menu is displayed. All LEDs light.
7	RAM CLEAR and DIRECT mode	Spectrum analyzer is displayed.

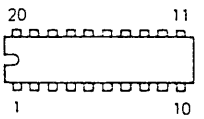
SECTION 5
DIAGRAMS

5-1. SEMICONDUCTOR LEAD LAYOUTS

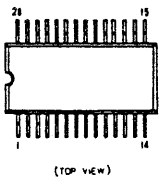
SN761200N



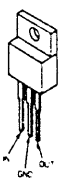
XR1092CP



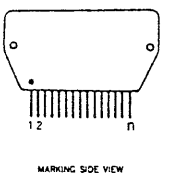
AK5369VS
TC9270F



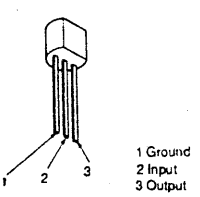
M5F78M05L
M5F78M12L
TA78057S-LC



STK4122MK2



NJM79L05A



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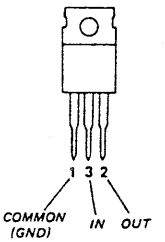

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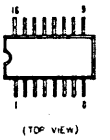

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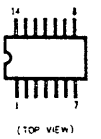
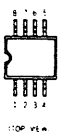
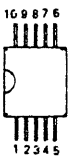


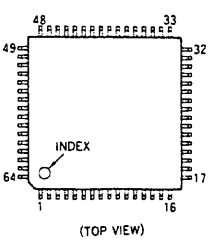
M51953BFP
M5218AFP
NJM4560M
µPC4570G2



LB1638M



HD6433258-B09F



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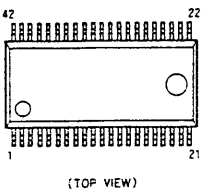
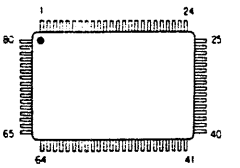


CXD2705AQ



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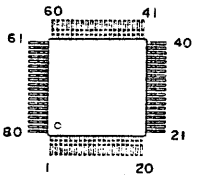

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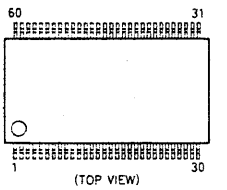
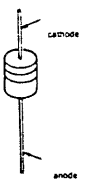
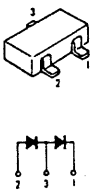


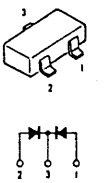
11ES2
UZP-27BB



1SS226



DCB010



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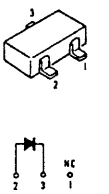

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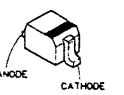

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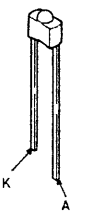

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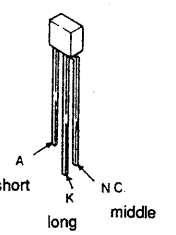

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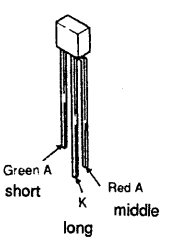

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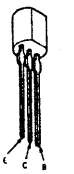

2SC2958-KLM

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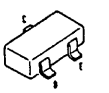
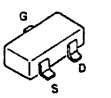
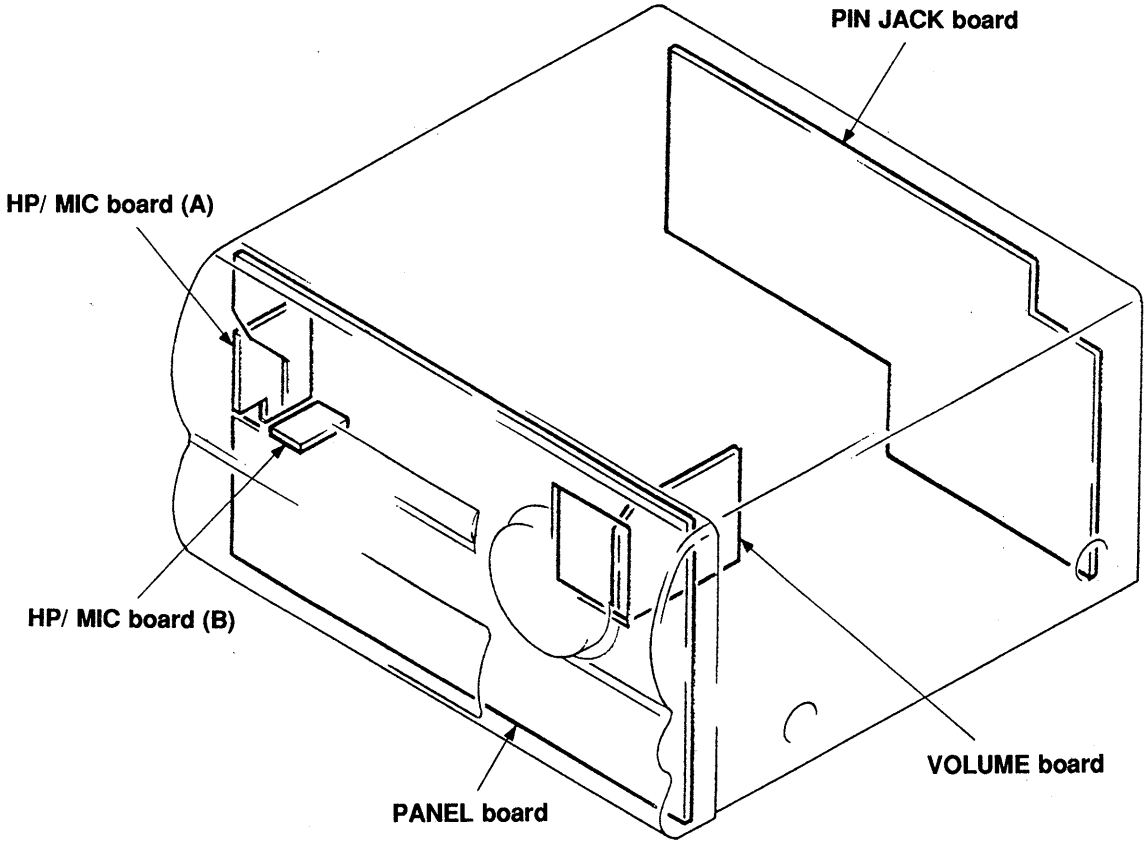
2SC3396
2SC3398
2SC4154-F
2SC3624A-L15

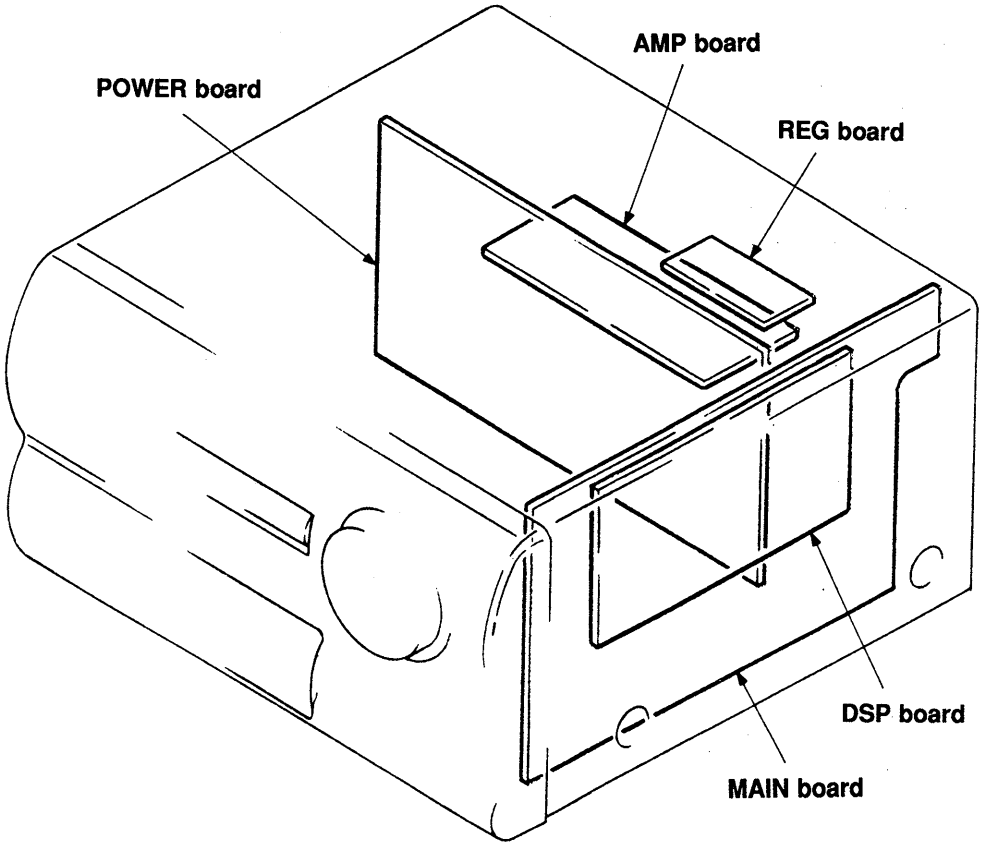


2SK208-GR3

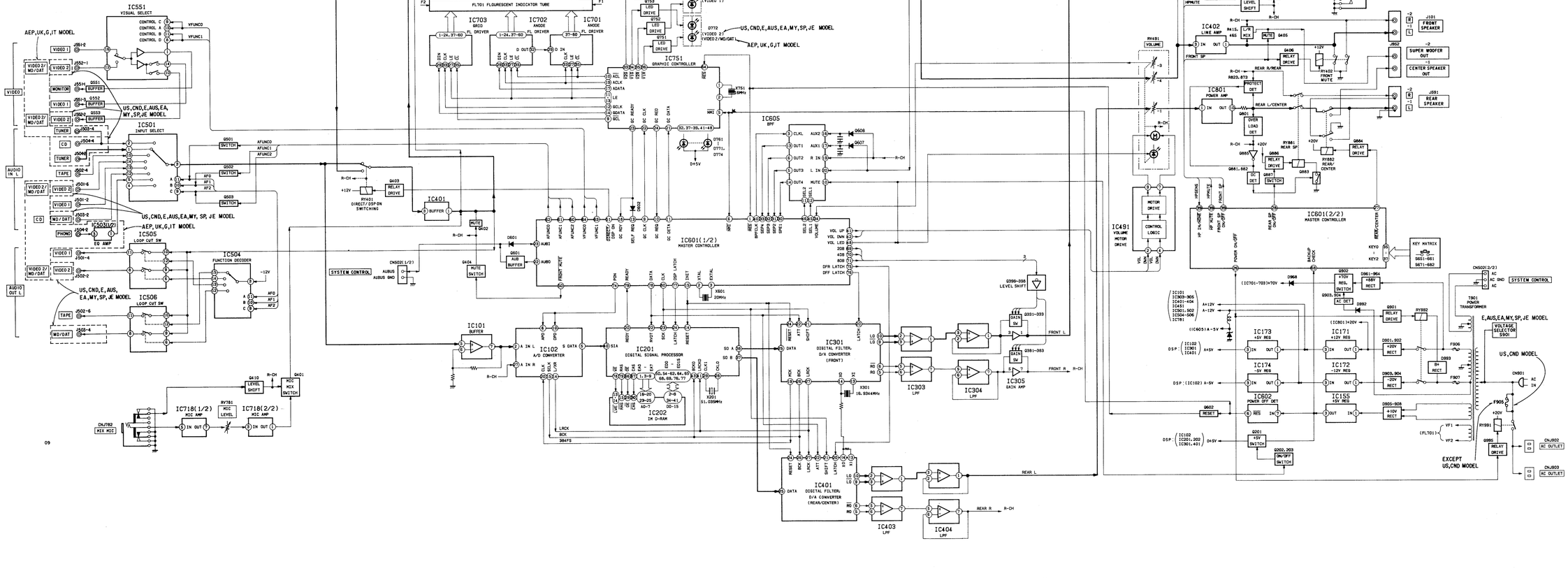


5-2. CIRCUIT BOARDS LOCATION





5-3. BLOCK DIAGRAM

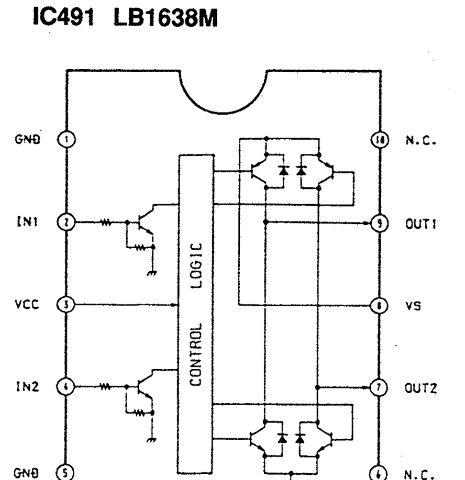


5-4. SCHEMATIC DIAGRAM — MAIN SECTION —

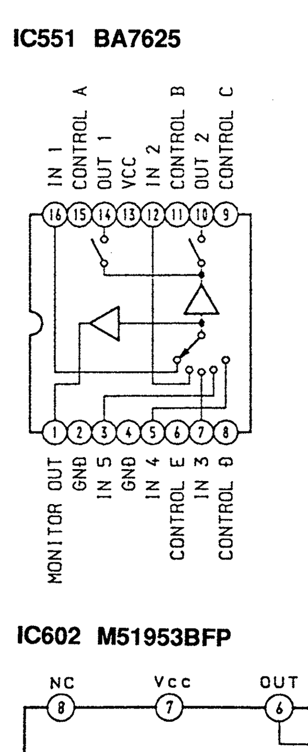
• See page 38 for IC Pin Functions. (IC601, IC605)

- IC Block Diagrams

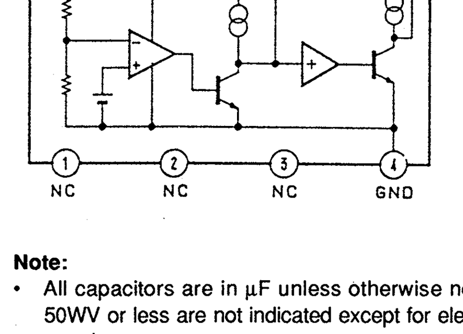
IC491 LB1638M



IC551 BA7625



IC602 M51953BFP



Note:

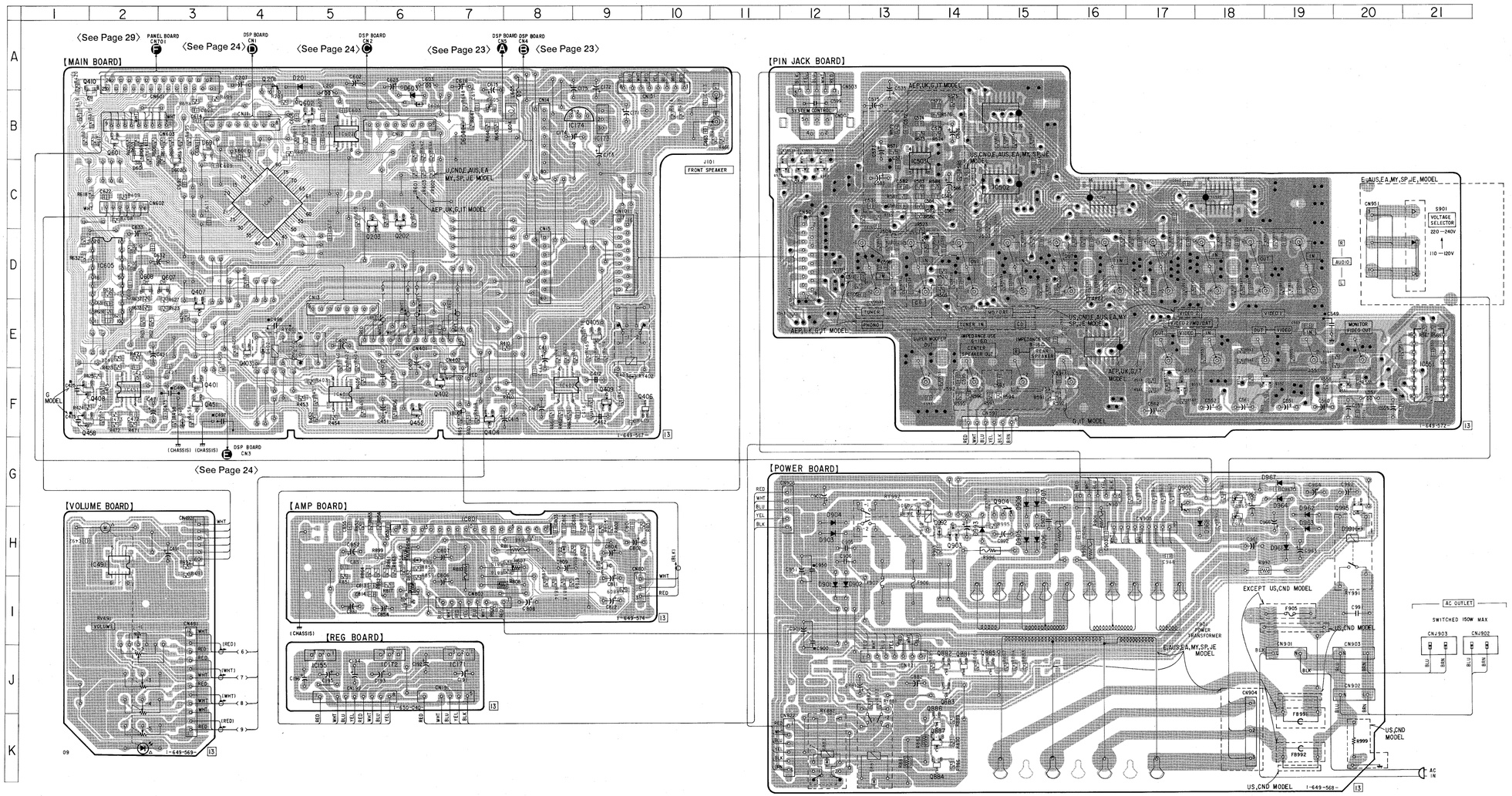
- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- ☐ : panel designation.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line
- : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - ⇨ : FM
  - ⇨ : REC
  - ▷ : MIC
- CND : Canadian model.
  - G : German model.
  - IT : Italian model.
  - EA : Saudi Arabia model.
  - AUS : Australian model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - JE : Tourist model.

5-5. PRINTED WIRING BOARDS — MAIN SECTION —

- See page 8 for Semiconductor Lead Layouts.
- See page 9 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	A-5	IC505	C-18
D401	F-3	IC506	C-16
D402	E-4	IC551	E-21
D403	F-9	IC601	C-4
D601	C-2	IC602	B-5
D602	C-3	IC605	D-2
D603	A-6	IC801	H-7
D604	B-7		
D605	B-7	Q201	A-4
D606	B-6	Q202	D-6
D691	B-3	Q203	D-6
D801	H-8	Q401	F-3
D851	H-6	Q402	F-7
D881	K-13	Q403	E-4
D882	K-12	Q404	F-7
D901	I-12	Q405	E-9
D902	I-13	Q406	F-10
D903	H-12	Q407	D-3
D904	H-12	Q408	F-1
D905	H-15	Q409	F-9
D906	H-15	Q410	A-2
D907	G-15	Q451	F-3
D908	G-15	Q452	F-6
D961	H-19	Q458	F-1
D962	H-19	Q501	C-12
D963	H-19	Q502	C-12
D964	H-19	Q503	F-12
D965	H-18	Q551	F-20
D966	H-18	Q552	F-19
D967	G-19	Q553	F-18
D968	H-18	Q601	B-2
D991	H-20	Q602	B-5
D992	H-14	Q607	D-3
D993	H-14	Q608	D-2
D994	H-14	Q801	H-9
		Q851	I-9
IC155	J-5	Q881	J-14
IC171	J-7	Q882	J-14
IC172	J-6	Q883	J-14
IC173	B-9	Q884	K-14
IC174	B-9	Q885	J-15
IC401	F-5	Q886	J-14
IC402	F-8	Q887	K-14
IC451	F-2	Q901	H-13
IC491	H-2	Q902	G-17
IC501	E-16	Q903	H-14
IC502	C-15	Q904	G-15
IC503	C-14	Q995	H-20
IC504	B-15		

Note:

- ○—— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒▒ : Pattern from the side which enable seeing.
- ▒▒ : Pattern of the rear side.
- CND : Canadian model.
  G : German model.
  IT : Italian model.
  EA : Saudi Arabia model.
  AUS : Australian model.
  SP : Singapore model.
  MY : Malaysia model.
  JE : Tourist model.

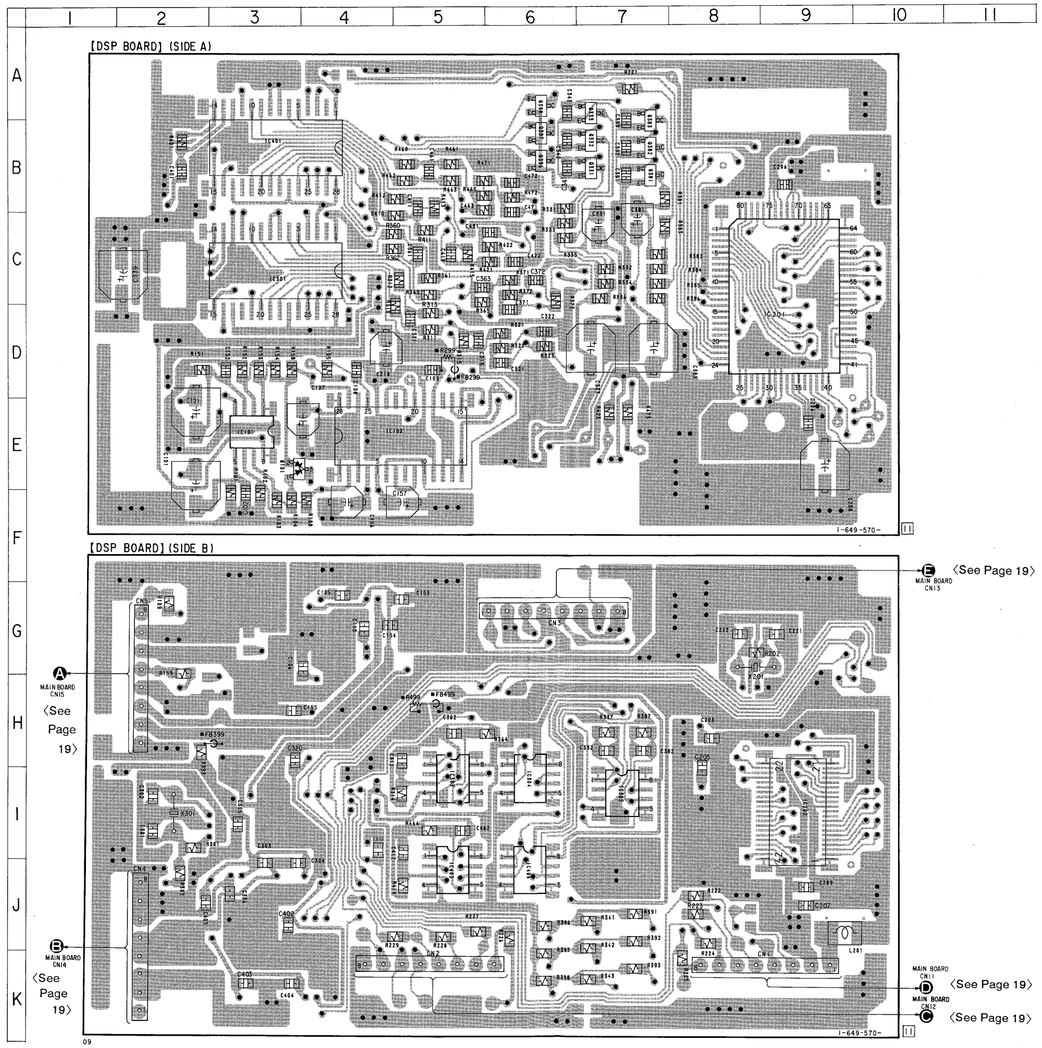
5-6. PRINTED WIRING BOARD — DSP SECTION —

• See page 8 for Semiconductor Lead Layouts.
• See page 9 for Circuit Boards Location.

• **Semiconductor Location**

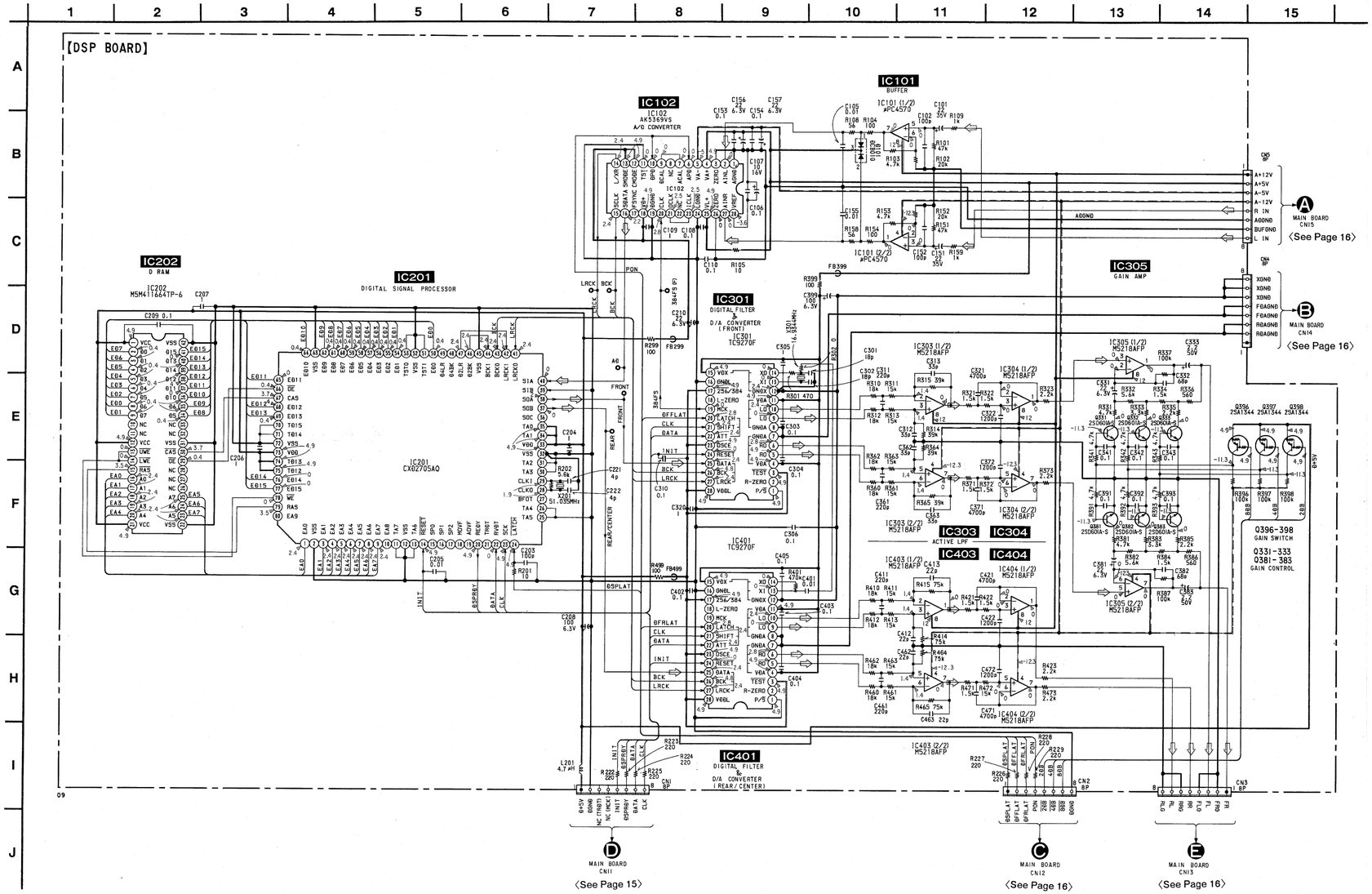
Ref. No.	Location
D101	E-3
IC101	E-3
IC102	E-5
IC201	D-9
IC202	I-9
IC301	C-3
IC303	I-5
IC304	I-6
IC305	I-7
IC401	B-3
IC403	J-5
IC404	J-6
Q331	B-7
Q332	B-7
Q333	A-7
Q381	B-7
Q382	B-7
Q383	B-7
Q396	B-6
Q397	B-6
Q398	A-6

Note:
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒ : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)



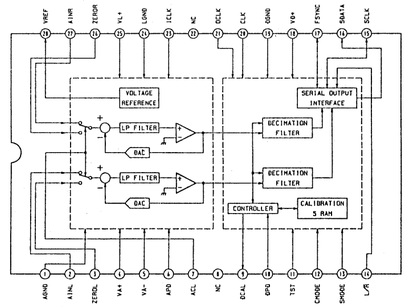
5-7. SCHEMATIC DIAGRAM — DSP SECTION —

• See page 34 for IC Pin Functions.(IC102, IC201, IC301, IC401)

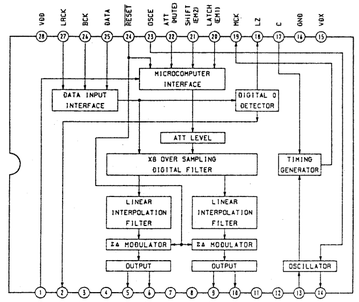


• IC Block Diagrams

IC102 AK5369VS



IC301, 401 TC9270F



Note:

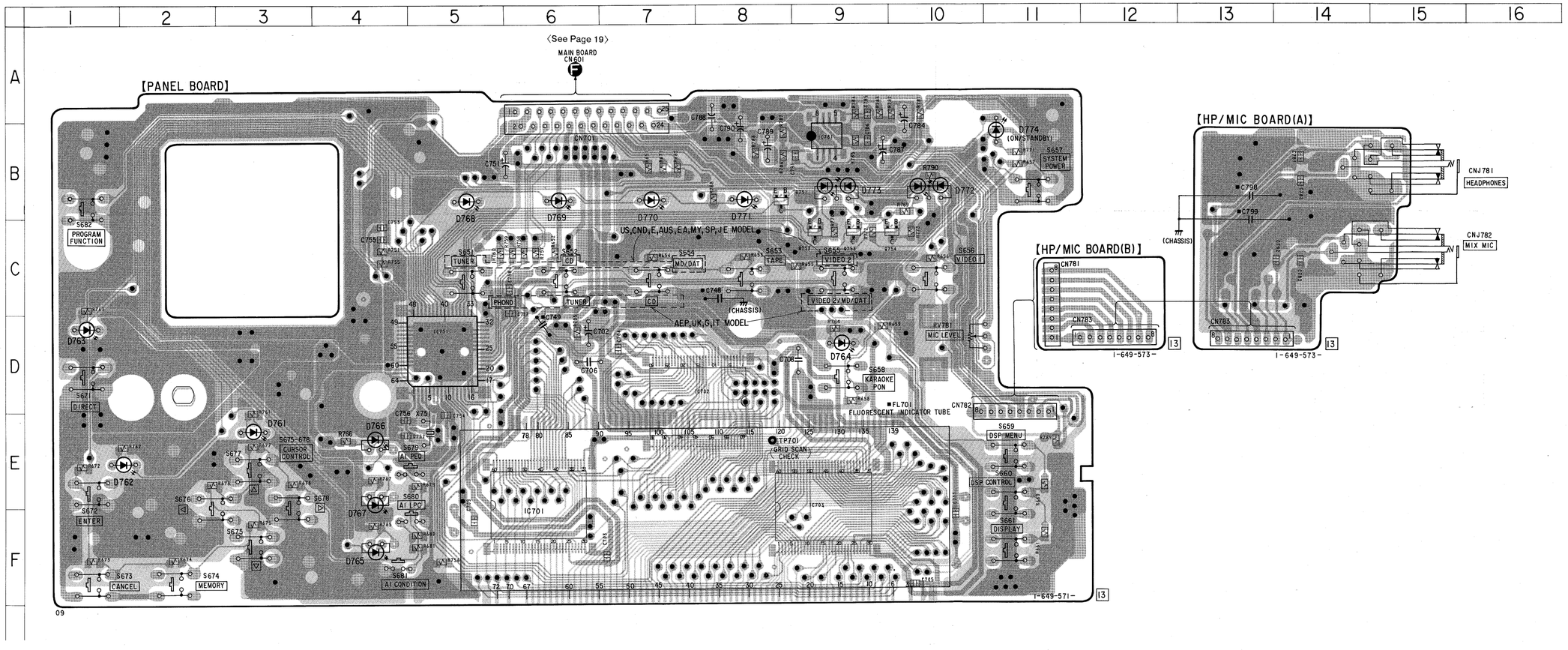
- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▬▬▬: B+ Line
- ▬▬▬: B– Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- The voltages of IC202, IC303 to IC305, IC403, and IC404 of the DSP board can be checked with the through hole on pins connected to the IC201. They can be measured easily by using five extension cables (J-8000-027-A) and opening the board.

5-8. PRINTED WIRING BOARDS
— PANEL SECTION —

• See page 8 for Semiconductor Lead Layouts.
• See page 9 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D761	E-3
D762	E-2
D763	D-1
D764	D-9
D765	F-4
D766	E-4
D767	F-4
D768	B-5
D769	B-6
D770	B-7
D771	B-8
D772	B-10
D773	B-9
D774	B-11
IC701	F-6
IC702	D-8
IC703	F-9
IC751	D-5
IC781	B-9
Q751	B-9
Q752	C-9
Q753	C-9
Q754	C-10

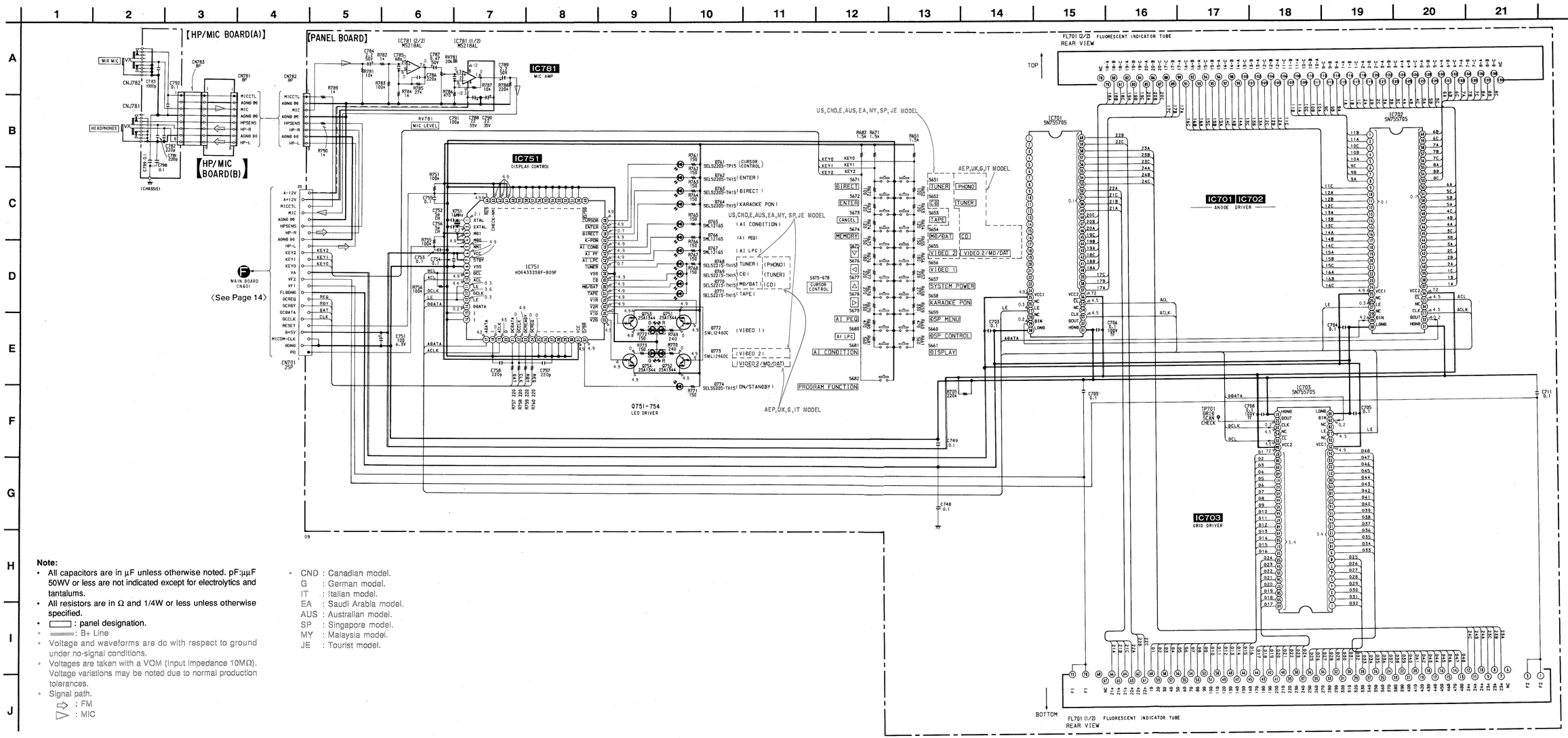


Note:

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enable seeing.
- ▒▒ : Pattern of the rear side.
- CND : Canadian model.
  G : German model.
  IT : Italian model.
  EA : Saudi Arabia model.
  AUS : Australian model.
  SP : Singapore model.
  MY : Malaysia model.
  JE : Tourist model.

5-9. SCHEMATIC DIAGRAM — PANEL SECTION —

• See page 41 for IC Pin Functions. (IC751)



Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭ : panel designation.
- ═══: B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ▷ : MIC

- CND : Canadian model.
- G : German model.
- IT : Italian model.
- EA : Saudi Arabia model.
- AUS : Australian model.
- SP : Singapore model.
- MY : Malaysia model.
- JE : Tourist model.

5-10. IC PIN FUNCTIONS

- **IC102 2CH A/D CONVERTER (AK5369VS) — DSP BOARD —**

Pin No.	Pin Name	I/O	Function
1	AGND	–	Analog section analog GND
2	AINL	I	Lch analog input
3	ZEROL	I	Lch zero level input. Connected to AGND.
4	VA+	–	Analog section analog + power supply. Connected to A +5V.
5	VA–	–	Analog section analog – power supply. Connected to A –5V.
6	APD	I	Analog section power down. "H": Power down mode.
7	ACAL	I	Analog calibration. Normally connected to DCAL. This pin level switches the input pin for external signals. "H": Zero level input (ZEROL, ZEROR), "L": Analog input (AINL, AINR).
8	NC	–	Not used (Open).
9	DCAL	O	Digital calibration. Indicates that offset calibration is in function. Normally connected to ACAL. Rises immediately after the power down signal is input to DPD, and becomes "L" 4096L/$\overline{R}$ periods (Approx. 85 msec when fs=48 kHz) after DPD falls, and indicates the calibration has ended.
10	DPD	I	Digital section power down. "H": Power down mode.
11	TST	I	Test pin. Connected to DGND.
12	CMODE	I	Master clock select. Connected to D +5V. "L": CLK=256 fs (12.288 MHz @fs=48 kHz), "H": CLK=384 fs (18.432 MHz @fs=48 kHz).
13	SMODE	I	Interface clock. Connected to D +5V. Sets the I/O of clock pins L/XR, SCLK, FSYNC. "L": Slave mode (All pins are inputs), "H": Master mode (All pins are outputs).
14	L/XR	O	Input channel select. Outputs the fs clock. SDATA is output from L/$\overline{R}$ edge after 1 SCLK. "H": Power down (DPD="H") (Master mode)
15	SCLK	O	Serial data clock. 1 bit of output data is output at its falling edge. 64 fs clock is output. "L": Power down (DPD="H") (Master mode).
16	SDATA	O	Serial data output. 18 bits of data in 2's complement is output from MSB. When SCLK input is more than 19 bits, "L" will be output. "L": Power down (DPD="H").
17	FSYNC	O	Frame sync clock. Not used (Open).
18	VD+	–	Digital section power supply. Connected to D +5V.
19	DGND	–	Digital section GND.
20	CLK	I	Master clock input. CMODE="H": 384 fs, CMODE="L": 256 fs.
21	OCLK	O	128 fs clock output. "L": Power down (DPD="H").
22	NC	–	Not used (Open).
23	ICLK	I	128 fs clock input. Analog section clock. Connected to OCLK.
24	LGND	–	Analog section logic GND.
25	VL+	–	Analog section logic power supply. Connected to A +5V.
26	ZEROR	I	Rch zero level input. Connected to AGND. Normally this pin input voltage is set to zero level and the Rch offset is calibrated.
27	AINR	I	Rch analog input.
28	VREF	O	Reference voltage output –3.68V. The full scale of the input signal depends on this voltage. fs= ± 3.68V when VREF=–3.68V.

- **IC201 DIGITAL SIGNAL PROCESSOR (CXD2705AQ) — DSP BOARD —**

IC201 is a 2ch digital signal processor (DSP). It has equalizer, dynamics, and reverb functions on a single chip.
Using the external 1Mbit D-RAM (IC202, M5M411664), it will perform the following sound processings without performing analog conversion.

- DPE (Digital Parametric Equalizer)
- AI condition
- DDS (Digital Dynamic Sound) compressor effect
- AI LPC
- DPS (Digital Presence Surround) surround effect
- Rear component generation
- KARAOKE-PON

Pin No.	Pin Name	I/O	Function
1	EA0	O	M5M411664 (D-RAM) address
2	Vss	–	GND
3	EA1	O	M5M411664 (D-RAM) address
4	EA2	O	
5	EA3	O	
6	EA4	O	
7	EA5	O	
8	EA6	O	
9	EA7	O	
10	EA8	O	D-RAM address. Not used (open).
11	TA7	I	Test pin. Connected to GND.
12	Vss	–	GND
13	TA6	I	Test pin. Connected to GND.
14	XRST	I	Reset input. "L": Reset.
15	SP0	O	Static port 0. Not used (open).
16	SP1	O	Static port 1. Not used (open).
17	SP2	O	Static port 2. Not used (open).
18	MOVF	O	MAC overflow signal output. Not used (open).
19	AOVF	O	ALU overflow signal output. Not used (open).
20	REDY	O	Ready-for-service signal output to HD6433388 (gate array).
21	TRDT	O	Data output to HD6433388 (gate array). Not used (open).
22	RVDT	I	Data input from HD6433388 (gate array).
23	SCK	I	Shift clock input from HD6433388 (gate array).
24	XLAT	I	Mode partition signal input from HD6433388 (gate array).
25	TA5	I	Test pin. Connected to GND.
26	TA4	I	
27	BFOT	O	Clock buffer output. Not used (open).
28	CLKO	O	Clock output (51.035MHz)
29	CLKI	I	Clock input (51.035MHz)
30	TA3	I	Test pin. Connected to GND.
31	TA2	I	
32	Vss2	–	GND
33	$V_{DD}0$	–	+5V power supply
34	TA1	I	Test pin. Connected to +5V.
35	TA0	I	

Pin No.	Pin Name	I/O	Function
36	SOC	O	Serial data output. Not used (open).
37	SOB	O	Serial data output (rear output).
38	SOA	O	Serial data output (front output).
39	SIB	I	Serial data input. Connect to GND.
40	SIA	I	Serial data input.
41	LRCK0	I	LR clock input
42	LRCK1	I	
43	BCK0	I	Bit clock input
44	BCK1	I	
45	Vss3	–	GND
46	D2BK	O	1/2 divided bit clock output.
47	D2LR	O	1/2 divided LR clock output.
48	D4BK	O	1/4 divided bit clock output. Not used (open).
49	D4LR	O	1/4 divided LR clock output. Not used (open).
50	ED0	I/O	Data input/output with M5M411664 (D-RAM).
51	TST1	I	Test pin. Connected to GND.
52	Vss	–	GND
53	TST0	I	Test pin. Connected to GND.
54	ED1	I/O	Data input/output with M5M411664 (D-RAM).
55	ED2	I/O	
56	ED3	I/O	
57	ED4	I/O	
58	ED5	I/O	
59	ED6	I/O	
60	ED7	I/O	
61	ED8	I/O	
62	ED9	I/O	
63	Vss5	–	GND
64	ED10	I/O	Data input/output with M5M411664 (D-RAM).
65	ED11	I/O	
66	XOE	O	Output enable output of M5M411664 (D-RAM). "L": Valid.
67	CAS	O	Column address strobe output of M5M411664 (D-RAM).
68	ED12	I/O	Data input/output with M5M411664 (D-RAM).
69	ED13	I/O	
70	ED15	I	Test pin. Connected to GND.
71	ED14	I	
72	Vss6	–	GND
73	VDD1	–	+5V power supply
74	TD13	I	Test pin. Connected to GND.
75	TD12	I	
76	ED14	I/O	Data input/output with M5M411664 (D-RAM).
77	ED15	I/O	
78	$\overline{WE}$	O	Write enable output of M5M411664 (D-RAM). "L": Valid.
79	RAS	O	Row address strobe output of M5M411664 (D-RAM).
80	EA9	O	D-RAM address. Not used (open).

• IC301 AND IC401 D/A CONVERTER (WITH BUILT-IN DIGITAL FILTER) AND DIGITAL ATTENUATOR (TC9270F)

– DSP BOARD –

Pin No.	Pin Name	I/O	Function
1	P/$\overline{S}$	I	Pin for switching serial and parallel controls. Connected to GND.
2	R-ZERO	O	R channel digital zero detection output. Not used (Open).
3	$\overline{TEST}$	I	Test pin. Normally "H". Connected to D +5V.
4	VDA	–	Analog power supply for R channel D/A converter. Connected to A +5V.
5	RO	O	R channel data normal output
6	$\overline{RO}$	O	R channel data inverse output
7	GNDA	–	Analog GND for R channel D/A converter
8	GNDA	–	Analog GND for L channel D/A converter
9	$\overline{LO}$	O	L channel data inverse output
10	LO	O	L channel data normal output
11	VDA	–	Analog power supply for L channel D/A converter. Connected to A +5V.
12	GNDX	–	Oscillation section GND
13	XI	I	Connected to crystal oscillator. Generates clocks required for the system.
14	XO	O	
15	VDX	–	Oscillation section power supply. Connected to A +5V.
16	GND	–	Logic section GND.
17	$\overline{256}$/384	I	Clock select. Connected to D +5V. "L": Corresponds to 256 fs, "H": Corresponds to 384 fs.
18	L-ZERO	O	L channel digital zero detection output. Not used (Open).
19	MCK	O	System clock output.
20	LATCH	I	During serial control, data latch signal input pin for attenuator. (During parallel control, deemphasis filter mode select pin.)
21	SHIFT	I	During serial control, shift clock input pin for attenuator. (During parallel control, deemphasis filter mode select pin.)
22	ATT	I	During serial control, data input pin for attenuator. (During parallel control, muting pin.) "H": Mute ON.
23	OSCE	I	System clock control. Connected to D +5V. "L": Stops system clock.
24	$\overline{RESET}$	I	Reset pin. "L": Resets Σ Δ circuit and sets attenuator data to 00 (HEX).
25	DATA	I	Data input.
26	BCK	I	Bit clock input.
27	LRCK	I	LR clock input. ("H": L channel data)
28	V_{DD}	–	Logic power supply. Connected to D + 5V.

- **IC601 MASTER CONTROLLER (HD6433388-A17F) — MAIN BOARD —**

Pin No.	Pin Name	I/O	Function
1	$\overline{RES}$	I	System reset input. "L": Reset.
2	XTAL	O	System clock output (20 MHz)
3	EXTAL	I	System clock input (20 MHz)
4	MD1	I	System mode switching input. Fixed at "H" (Connected to +5V).
5	MD0	I	
6	$\overline{NMI}$	I	Power down detection input. "L": Power down.
7	$\overline{STBY}$	I	Standby mode input. Fixed at "H" (Connected to +5V).
8	Vcc	–	Power supply (+5V).
9	GC CLK	O	Display data period clock output to graphic controller (IC751)
10	GC REQ	I	Data request input from graphic controller (IC751)
11	GC DATA	O	Serial data output to graphic controller (IC751)
12	Vss	–	GND
13	GC SELFREQ	O	Self request output. Normally "L".
14	ϕ	–	Not used (Connected to GND).
15	GC INIT	O	Reset output to DSP (IC201) and DATT and DA converter (IC301, IC401)
16	I	–	Not used (Connected to GND).
17	I	–	
18	GC READY	I	READY input from graphic controller (IC751). Normally "L".
19	I	–	Not used (Connected to GND).
20	I	–	
21	I	–	
22	AUBO	O	Audio bus output
23	AUBI	I	Audio bus input
24	I	–	Not used (Connected to GND).
25	I	–	
26	POWER ON/$\overline{OFF}$	O	Control output to power relay (RY991, RY992)
27	$\overline{REAR}$/CENTER	O	Control output to rear/center relay (RY882)
28	REAR SP ON/OFF	O	Control output to rear speaker relay (RY881)
29	AVcc	–	Power supply (+5V)
30	SPE1	I	Input for spectrum analyzer and level meter from BPF (IC605).
31	SPE2	I	
32	SPE3	I	
33	SPE4	I	
34	VOLUME	I	Volume position detection input
35	KEY0	I	Key input (S651 to S661)
36	KEY1	I	Key input (S671 to S681)
37	KEY2	I	Key input (S682)
38	AVss	–	GND
39	HP IN/$\overline{NONE}$	I	Headphone plug insertion detection input. "H": Plug in, "L": No plug.
40	BPFCLK	O	Clock output to BPF (IC605) (529.2 kHz)

Pin No.	Pin Name	I/O	Function
41	VOLUP	O	Volume UP control output
42	VOLDOWN	O	Volume DOWN control output
43	I	–	Not used (connected to GND).
44	I	–	
45	SEL1	O	Filter select signal output to BPF (IC605)
46	SEL2	O	
47	Vcc	–	Power supply (+ 5V)
48	$\overline{\text{VOL LED}}$	O	Volume LED drive output
49	$\overline{\text{HP MUTE}}$	O	Mute signal output to headphone amplifier. "L": Mute.
50	$\overline{\text{FRONT MUTE}}$	O	Mute signal output to line amplifier. "L": Mute.
51	$\overline{\text{DIRECT}}$/DSP ON	O	Control output to direct/DSP ON switching relay (RY401).
52	I	–	Not used (Connected to GND).
53	I	–	
54	FRONT SP ON/$\overline{\text{OFF}}$	O	Control output to mute relay (RY402) of front speaker output.
55	I	–	Not used (Connected to GND).
56	Vss	–	GND
57	TEST3	O	Test port output. Square wave is generated at TEST 1 and 2 if microprocessor operates correctly.
58	TEST2	O	
59	TEST1	O	
60	AFUNC2	O	Audio function switching and data output
61	AFUNC1	O	
62	AFUNC0	O	
63	VFUNC1	O	Video function switching and data output
64	VFUNC0	O	
65	SHIMUKE1	I	Destination select input. "L": Except AEP, UK, German, Italian model.
66	SHIMUKE0	I	Destination select input. "L": AEP, UK, German, Italian model.
67	DOLBY TEST	I	Dolby surround check switching input. Normally "L".
68	BACKUP CHECK	I	Backup check
69	GAIN $\overline{\text{2DB}}$	O	Gain amplifier control output. "L": +2 dB.
70	GAIN $\overline{\text{4DB}}$	O	Gain amplifier control output. "L": +4 dB.
71	GAIN $\overline{\text{8DB}}$	O	Gain amplifier control output. "L": +8 dB.
72	I	–	Not used (Connected to GND).
73	Vss	–	GND
74	PON	O	Power down output to A/D converter (IC102)
75	DFR LATCH	O	Latch output to rear digital filter/DA converter (IC401)
76	DFF LATCH	O	Latch output to front digital filter/DA converter (IC301)
77	DSP LATCH	O	Latch output to digital signal processor (IC201)
78	DATA	O	Data output to digital signal processor (IC201) and digital filter/DA converter (IC301, IC401)
79	READY	I	READY input from digital signal processor (IC201)
80	CLK	O	Data transfer clock output to digital signal processor (IC201) and digital filter/DA converter (IC301, IC401)

- **IC605 BPF (XR1092CP) — MAIN BOARD —**

The BPF is a graphic equalizer filter which incorporates 12 filters (15.625 Hz to 20 kHz), an output multiplexer, etc. It creates data for the spectrum analyzer and analog meter display.

Pin No.	Pin Name	I/O	Function
1	Vss	–	Vss. Connected to A –5V.
2	CLKR	–	Not used (open).
3	CLKC	I	Clock input
4	VDD	–	VDD input. Connected to D +5V.
5	OUT3	O	Multiplexer output for 4 kHz, 8 kHz, 16 kHz, and 20 kHz filters
6	OUT2	O	Multiplexer output for 250 Hz, 500 Hz, 1 kHz, and 2 kHz filters
7	SEL4	–	Not used (Open).
8	SEL3	–	
9	OUT5	–	
10	MUTE	I	Mute input. Drops all outputs to the reference voltage (0V).
11	SEL2	I	Together with SEL 1, selects filter outputs output to OUT1 to OUT4. (See Table 1.)
12	SEL1	I	Together with SEL 2, selects filter outputs output to OUT1 to OUT4. (See Table 1.)
13	OUT1	O	Multiplexer output for 15.625 Hz, 31.25 Hz, 62.5 Hz, and 125 Hz filters
14	OUT4	O	Multiplexer output for peak sum and external inputs
15	AUX3	–	Not used. Connected to GND.
16	AUX2	I	External input 2 (For analog meter)
17	AUX1	I	External input 1 (For analog meter)
18	AGND	–	GND
19	RIN	I	R input (For graphic equalizer)
20	LIN	I	L input (For graphic equalizer)

SEL2 Pin ⑪	SEL1 Pin ⑫	OUT1	OUT2	OUT3	OUT4
0	0	15.625Hz	250Hz	4kHz	Peak Sum
0	1	31.25Hz	500Hz	8kHz	Aux1
1	0	62.5Hz	1kHz	16kHz	Aux2
1	1	125Hz	2kHz	20kHz	Aux3

Table 1. Set Up Table of SEL 1 and SEL 2 (XR1092CP)

- **IC751 GRAPHIC CONTROLLER (HD6433258-B09F) — PANEL BOARD —**

Pin No.	Pin Name	I/O	Function
1	XTAL	O	System clock output (16 MHz)
2	EXTAL	I	System clock input (16 MHz)
3	MD	I	System mode input. Fixed at "H" (Connected to D +5V).
4	MD0	I	
5	$\overline{NMI}$	I	Power down input. "L": Power down.
6	Vcc	–	Power supply (D +5V)
7	$\overline{STBY}$	I	Standby mode input. Fixed at "H" (Connected to D +5V).
8	Vss	–	GND
9	$\overline{GCL}$	O	Grid clear output. Normally "H".
10	$\overline{ACL}$	O	Anode clear output. Normally "H".
11	LE	O	Data latch output to FL driver (IC701 to IC703)
12	GCLK	O	Transfer clock output to FL driver (IC703)
13	LE	O	Data latch output to FL driver (IC701 to IC703)
14	GDATA	O	Data output to FL driver (IC703)
15	——	–	Not used (Open).
16	——	–	
17	ADATA	O	Data output to FL driver (IC701, IC702)
18	——	–	Not used (Open).
19	ACLK	O	Transfer clock output to FL driver (IC701, IC702)
20	——	–	Not used (Open).
21	GCDATA	I	Serial data input from master controller (IC601)
22	GCCLK	I	Display data period clock input from master controller (IC601)
23	GCREADY	O	READY output to master controller (IC601). Normally "L".
24	GCREQ	O	Data request output to master controller (IC601)
25 to 30	——	–	Not used (Connected to GND).
31	Vcc	–	Power supply (D +5V)
32 to 39	——	O	LED drive port. "L": Lights.
40	Vss	–	GND
41 to 48	——	O	LED drive port. "L": Lights.
49	$\overline{O/SG}$	–	Not used (Open).
50 to 60	——	–	Not used (Connected to GND).
61, 62	——	–	Not used (Connected to D +5V).
63	CHECK-NMI	–	
64	$\overline{RES}$	I	Reset input

SECTION 6
EXPLODED VIEW

NOTE:

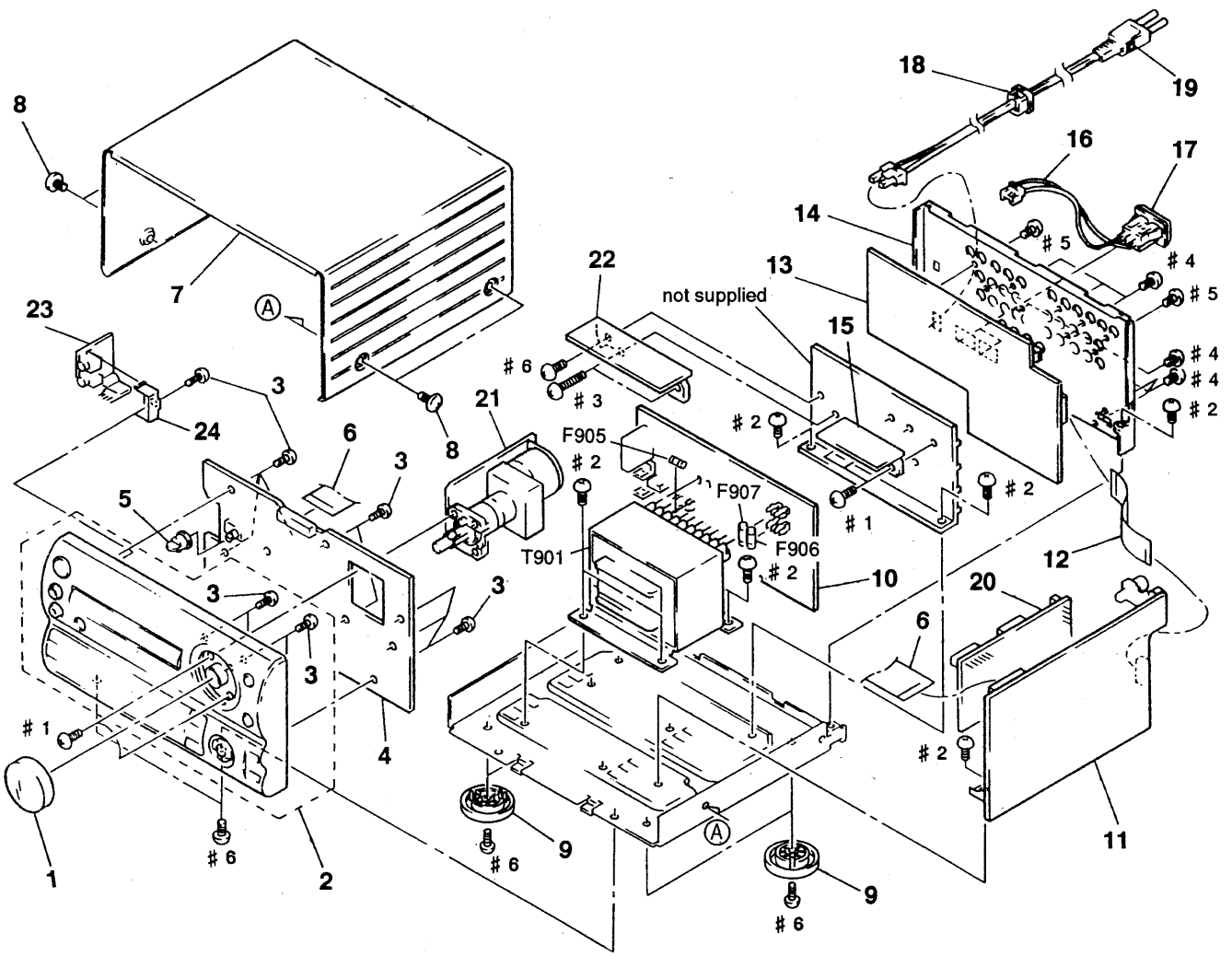
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts color Cabinet's color
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Hardware (# mark) list is given in the last of this parts list.

- CND : Canadian model
- G : German model
- IT : Italian model
- EA : Saudi Arabia model
- AUS : Australian model
- SP : Singapore model
- MY : Malaysia model
- JE : Tourist model

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

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

6-1. CASE AND CHASSIS BLOCK



Ref. No.	Part No.	Description	Remark
1	X-4944-056-1	KNOB (VOLUME) ASSY	
2	X-4944-068-2	PANEL ASSY, FRONT (AEP, UK, G, IT)	
2	X-4944-069-2	PANEL ASSY, FRONT (E, AUS, EA, MY, SP, JE)	
2	X-4944-585-2	PANEL ASSY, FRONT (US, CND)	
3	4-951-620-01	SCREW (2.6X8), +BVTP	
* 4	A-4365-428-A	PANEL BOARD, COMPLETE	
5	4-961-522-01	KNOB (HP)	
6	1-751-949-11	WIRE (FLAT TYPE) (25 CORE)	
* 7	4-961-519-01	CASE	
8	3-363-099-21	SCREW (CASE 3 TP2)	
9	X-4944-053-1	FOOT (DIA. 42) ASSY	
* 10	A-4369-320-A	POWER BOARD, COMPLETE (US, CND)	
* 10	A-4369-323-A	POWER BOARD, COMPLETE (E, AUS, EA, MY, SP, JE)	
* 10	A-4369-326-A	POWER BOARD, COMPLETE (G, IT)	
* 10	A-4369-329-A	POWER BOARD, COMPLETE (AEP, UK)	
* 11	A-4369-319-A	MAIN BOARD, COMPLETE (US, CND)	
* 11	A-4369-322-A	MAIN BOARD, COMPLETE (E, AUS, EA, MY, SP, JE)	
* 11	A-4369-325-A	MAIN BOARD, COMPLETE (G, IT)	
* 11	A-4369-328-A	MAIN BOARD, COMPLETE (AEP, UK)	
12	1-575-733-11	WIRE, FLAT TYPE (17 CORE)	
* 13	A-4365-431-A	PIN JACK BOARD, COMPLETE (US, CND)	
* 13	A-4369-321-A	PIN JACK BOARD, COMPLETE (E, AUS, EA, MY, SP, JE)	
* 13	A-4369-324-A	PIN JACK BOARD, COMPLETE (G, IT)	
* 13	A-4369-327-A	PIN JACK BOARD, COMPLETE (AEP, UK)	
* 14	4-961-520-21	PANEL, BACK (AEP)	
* 14	4-961-520-31	PANEL, BACK (UK)	
* 14	4-961-520-41	PANEL, BACK (IT)	
* 14	4-961-520-51	PANEL, BACK (G)	
* 14	4-961-520-61	PANEL, BACK (E, AUS, EA, JE)	
* 14	4-961-520-71	PANEL, BACK (MY)	
* 14	4-961-520-81	PANEL, BACK (SP)	
* 14	4-961-520-91	PANEL, BACK (US, CND)	
* 15	1-650-040-11	REG BOARD	
⚠16	1-751-216-42	LEAD (WITH CONNECTOR) (2 CORE)	
⚠17	1-526-794-11	OUTLET, AC (EXCEPT US, CND)	
⚠17	1-526-882-00	OUTLET, AC (US, CND)	
⚠*18	3-703-244-00	BUSHING (2104), CORD	
⚠19	1-575-651-21	CORD, POWER (AEP, G, IT, EA, MY, SP)	
⚠19	1-590-836-11	CORD, POWER (US, CND)	
⚠19	1-696-586-11	CORD, POWER (UK)	
⚠19	1-696-845-11	CORD, POWER (AUS)	
⚠19	1-751-621-11	CORD, POWER (E, JE)	
* 20	A-4365-435-A	DSP BOARD, COMPLETE	
* 21	1-649-569-11	VOLUME BOARD	
* 22	1-649-574-11	AMP BOARD	
* 23	1-649-573-11	HP/MIC BOARD	
* 24	4-961-523-01	BRACKET (HP)	
⚠F905	1-532-286-00	FUSE, TIME-LAG (T2.5A) (AEP, UK, E, G, IT, AUS, EA, MY, SP, JE)	
⚠F906	1-532-299-00	FUSE, TIME-LAG (T5A) (AEP, UK, E, G, IT, AUS, EA, MY, SP, JE)	
⚠F906	1-532-747-11	FUSE, GLASS TUBE (5A/125V) (US, CND)	
⚠F907	1-532-299-00	FUSE, TIME-LAG (T5A) (AEP, UK, E, G, IT, AUS, EA, MY, SP, JE)	
⚠F907	1-532-747-11	FUSE, GLASS TUBE (5A/125V) (US, CND)	
⚠T901	1-426-646-11	TRANSFORMER, POWER (UK)	
⚠T901	1-426-647-11	TRANSFORMER, POWER (AEP, G, IT)	
⚠T901	1-426-648-11	TRANSFORMER, POWER (E, AUS, EA, MY, SP, JE)	
⚠T901	1-426-649-11	TRANSFORMER, POWER (US, CND)	

AMP

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

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

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

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.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts color Cabinet's color
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB...,
  uPC...: μPC..., uPD...: μPD...
- Hardware (# mark) list is given in the last of this parts list.

- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- CND : Canadian model
- G : German model
- IT : Italian model
- EA : Saudi Arabia model
- AUS : Australian model
- SP : Singapore model
- MY : Malaysia model
- JE : Tourist model

Ref. No.	Part No.	Description				Remark
*	1-649-574-11	AMP BOARD				
		*********				
		< CAPACITOR >				
C801	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C802	1-126-161-11	ELECT	2.2uF	20%	50V	
C803	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C804	1-124-910-11	ELECT	47uF	20%	50V	
C805	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C806	1-126-049-11	ELECT	22uF	20%	25V	
C807	1-124-478-11	ELECT	100uF	20%	25V	
C808	1-126-049-11	ELECT	22uF	20%	25V	
C809	1-124-478-11	ELECT	100uF	20%	25V	
C811	1-124-910-11	ELECT	47uF	20%	50V	
C812	1-126-059-11	ELECT	10uF	20%	50V	
C813	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C814	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C815	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C816	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C851	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C852	1-126-161-11	ELECT	2.2uF	20%	50V	
C853	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C854	1-124-910-11	ELECT	47uF	20%	50V	
C855	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C861	1-124-910-11	ELECT	47uF	20%	50V	
		< CONNECTOR >				
* CN801	1-573-262-11	PIN, CONNECTOR 3P				
		< DIODE >				
D801	8-719-016-74	DIODE 1SS352				
D851	8-719-016-74	DIODE 1SS352				
		< IC >				
IC801	8-749-920-19	IC STK4122MK2				
		< TRANSISTOR >				
Q801	8-729-602-21	TRANSISTOR 2SC4154-F				
Q851	8-729-602-21	TRANSISTOR 2SC4154-F				
		< RESISTOR >				
R800	1-216-295-00	METAL CHIP	0	5%	1/10W	
R801	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R802	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R803	1-216-041-00	METAL CHIP	470	5%	1/10W	
R804	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R805	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R806	1-216-077-00	METAL CHIP	15K	5%	1/10W	
⚠R807	1-249-470-11	CARBON	0.47	5%	1/2W	F
⚠R808	1-249-470-11	CARBON	0.47	5%	1/2W	F
R809	1-216-097-00	METAL CHIP	100K	5%	1/10W	
⚠R810	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R811	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R812	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R813	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R814	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R815	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R816	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R817	1-216-001-00	METAL CHIP	10	5%	1/10W	
R818	1-216-001-00	METAL CHIP	10	5%	1/10W	
R819	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R851	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R852	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R853	1-216-041-00	METAL CHIP	470	5%	1/10W	
R854	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R855	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R856	1-216-049-00	METAL CHIP	1K	5%	1/10W	
⚠R857	1-249-470-11	CARBON	0.47	5%	1/2W	F
⚠R858	1-249-470-11	CARBON	0.47	5%	1/2W	F
R859	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R861	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R862	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R863	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R864	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R898	1-216-308-00	METAL CHIP	4.7	5%	1/10W	
R899	1-216-308-00	METAL CHIP	4.7	5%	1/10W	
**********						

DSP

Ref.No.	Part No.	Description			Remark
*	A-4365-435-A	DSP BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-126-400-11	ELECT	22uF	20%	35V
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C105	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C106	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C107	1-124-779-00	ELECT CHIP	10uF	20%	16V
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C109	1-164-346-11	CERAMIC CHIP	1uF		16V
C110	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C151	1-126-400-11	ELECT	22uF	20%	35V
C152	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C153	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C154	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C155	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C156	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C157	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C203	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C204	1-164-346-11	CERAMIC CHIP	1uF		16V
C205	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C206	1-164-346-11	CERAMIC CHIP	1uF		16V
C207	1-164-346-11	CERAMIC CHIP	1uF		16V
C208	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C209	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C210	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C221	1-163-087-00	CERAMIC CHIP	4PF		50V
C222	1-163-087-00	CERAMIC CHIP	4PF		50V
C301	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C302	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C303	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-164-346-11	CERAMIC CHIP	1uF		16V
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C310	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C311	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C312	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C313	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C320	1-164-346-11	CERAMIC CHIP	1uF		16V
C321	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C322	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C331	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C332	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C333	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
C341	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C342	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C343	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C361	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C362	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C363	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C371	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C372	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C381	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C382	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C383	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
C391	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C392	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C393	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C399	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C401	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C404	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C405	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C411	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C412	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C413	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C421	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C422	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C461	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C462	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C463	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C471	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C472	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
		< CONNECTOR >			
* CN1	1-695-808-11	CONNECTOR, PC BOARD (RECEPTACLE) 8P			
* CN2	1-695-808-11	CONNECTOR, PC BOARD (RECEPTACLE) 8P			
* CN3	1-695-808-11	CONNECTOR, PC BOARD (RECEPTACLE) 8P			
* CN4	1-695-808-11	CONNECTOR, PC BOARD (RECEPTACLE) 8P			
* CN5	1-695-808-11	CONNECTOR, PC BOARD (RECEPTACLE) 8P			
		< DIODE >			
D101	8-719-990-39	DIODE DCB010			
		< FERRITE BEAD >			
FB299	1-414-235-11	FERRITE BEAD INDUCTOR			
FB399	1-414-235-11	FERRITE BEAD INDUCTOR			
FB499	1-414-235-11	FERRITE BEAD INDUCTOR			
		< IC >			
IC101	8-759-106-02	IC UPC4570G2			
IC102	8-759-191-21	IC AK5369VS			
IC201	8-752-352-30	IC CXD2705AQ			
IC202	8-759-085-03	IC M5M411664			
IC301	8-759-188-07	IC TC9270F			
IC303	8-759-636-55	IC M5218AFP			
IC304	8-759-636-55	IC M5218AFP			
IC305	8-759-636-55	IC M5218AFP			

DSP

Ref.No.	Part No.	Description				Remark
IC401	8-759-188-07	IC TC9270F				
IC403	8-759-636-55	IC M5218AFP				
IC404	8-759-636-55	IC M5218AFP				
		< COIL >				
L201	1-408-773-31	INDUCTOR CHIP	4.7uH			
		< TRANSISTOR >				
Q331	8-729-107-46	TRANSISTOR	2SC3624A-L15			
Q332	8-729-107-46	TRANSISTOR	2SC3624A-L15			
Q333	8-729-107-46	TRANSISTOR	2SC3624A-L15			
Q381	8-729-107-46	TRANSISTOR	2SC3624A-L15			
Q382	8-729-107-46	TRANSISTOR	2SC3624A-L15			
Q383	8-729-107-46	TRANSISTOR	2SC3624A-L15			
Q396	8-729-805-65	TRANSISTOR	2SA1344			
Q397	8-729-805-65	TRANSISTOR	2SA1344			
Q398	8-729-805-65	TRANSISTOR	2SA1344			
		< RESISTOR >				
R101	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R102	1-216-080-00	METAL CHIP	20K	5%	1/10W	
R103	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R104	1-216-025-00	METAL CHIP	100	5%	1/10W	
R105	1-216-001-00	METAL CHIP	10	5%	1/10W	
R108	1-216-019-00	METAL CHIP	56	5%	1/10W	
R109	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R151	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R152	1-216-080-00	METAL CHIP	20K	5%	1/10W	
R153	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R154	1-216-025-00	METAL CHIP	100	5%	1/10W	
R158	1-216-019-00	METAL CHIP	56	5%	1/10W	
R159	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R201	1-216-001-00	METAL CHIP	10	5%	1/10W	
R202	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R222	1-216-033-00	METAL CHIP	220	5%	1/10W	
R223	1-216-033-00	METAL CHIP	220	5%	1/10W	
R224	1-216-033-00	METAL CHIP	220	5%	1/10W	
R225	1-216-033-00	METAL CHIP	220	5%	1/10W	
R226	1-216-033-00	METAL CHIP	220	5%	1/10W	
R227	1-216-033-00	METAL CHIP	220	5%	1/10W	
R228	1-216-033-00	METAL CHIP	220	5%	1/10W	
R229	1-216-033-00	METAL CHIP	220	5%	1/10W	
R299	1-216-025-00	METAL CHIP	100	5%	1/10W	
R301	1-216-041-00	METAL CHIP	470	5%	1/10W	
R302	1-216-295-00	METAL CHIP	0	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	

Ref.No.	Part No.	Description				Remark
R314	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	
R315	1-216-689-11	METAL CHIP	39K	0.5%	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	1-216-043-00	METAL CHIP	560	5%	1/10W	
R337	1-216-097-00	METAL CHIP	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	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	
R365	1-216-689-11	METAL CHIP	39K	0.5%	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	1-216-043-00	METAL CHIP	560	5%	1/10W	
R387	1-216-097-00	METAL CHIP	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	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R397	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R398	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R399	1-216-025-00	METAL CHIP	100	5%	1/10W	
R401	1-216-113-00	METAL CHIP	470K	5%	1/10W	
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	1-216-094-00	METAL GLAZE	75K	5%	1/10W	
R415	1-216-094-00	METAL GLAZE	75K	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	
R460	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R461	1-216-077-00	METAL CHIP	15K	5%	1/10W	

Ref.No.	Part No.	Description				Remark
R462	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R463	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R464	1-216-094-00	METAL GLAZE	75K	5%	1/10W	
R465	1-216-094-00	METAL GLAZE	75K	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	
R499	1-216-025-00	METAL CHIP	100	5%	1/10W	
		< VIBRATOR >				
X201	1-760-134-21	VIBRATOR, CRYSTAL (51.035MHz)				
X301	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)				
**********						
*	1-649-573-11	HP/MIC BOARD				
		**********				
		< CAPACITOR >				
C781	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C782	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C783	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C792	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C798	1-164-159-11	CERAMIC	0.1uF		50V	
C799	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
* CN781	1-566-973-11	PIN, CONNECTOR (PC BOARD) 8P				
CN783	1-573-712-11	CONNECTOR, BOARD TO BOARD 8P				
		< JACK >				
CNJ781	1-750-032-31	JACK (DIA. 3.5) (HEADPHONES)				
CNJ782	1-750-032-31	JACK (DIA. 3.5) (MIX MIC)				
**********						
*	A-4369-319-A	MAIN BOARD, COMPLETE (US, CND)				
		**********				
*	A-4369-322-A	MAIN BOARD, COMPLETE (E, AUS, EA, MY, SP, JE)				
		**********				
*	A-4369-325-A	MAIN BOARD, COMPLETE (G, IT)				
		**********				
*	A-4369-328-A	MAIN BOARD, COMPLETE (AEP, UK)				
		**********				
		< CAPACITOR >				
C171	1-126-022-11	ELECT	47uF	20%	16V	
C172	1-126-022-11	ELECT	47uF	20%	16V	
C173	1-124-587-11	ELECT	220uF	20%	6.3V	
C174	1-124-587-11	ELECT	220uF	20%	6.3V	
C175	1-124-443-00	ELECT	100uF	20%	10V	
C207	1-124-587-11	ELECT	220uF	20%	6.3V	
C401	1-126-022-11	ELECT	47uF	20%	16V	
C402	1-126-022-11	ELECT	47uF	20%	16V	
C411	1-126-022-11	ELECT	47uF	20%	16V	
C412	1-124-180-00	ELECT	33uF	20%	25V	
C413	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C415	1-126-301-11	ELECT	1uF	20%	50V	
C416	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C421	1-126-161-11	ELECT	2.2uF	20%	50V	
C422	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C423	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C425	1-161-377-00	CERAMIC	4700PF	20%	16V	(G)
C451	1-126-022-11	ELECT	47uF	20%	16V	
C452	1-126-022-11	ELECT	47uF	20%	16V	
C461	1-126-022-11	ELECT	47uF	20%	16V	
C462	1-124-180-00	ELECT	33uF	20%	25V	
C463	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C466	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C471	1-126-161-11	ELECT	2.2uF	20%	50V	
C472	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C473	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C475	1-161-377-00	CERAMIC	4700PF	20%	16V	(G)
C497	1-164-159-11	CERAMIC	0.1uF		50V	
C498	1-164-159-11	CERAMIC	0.1uF		50V	
C499	1-164-159-11	CERAMIC	0.1uF		50V	
C602	1-124-587-11	ELECT	220uF	20%	6.3V	
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C604	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C605	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C606	1-164-005-11	CERAMIC CHIP	0.47uF		25V	
C607	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C608	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C609	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C610	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C611	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C612	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C613	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C614	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C615	1-126-022-11	ELECT	47uF	20%	16V	
C616	1-124-587-11	ELECT	220uF	20%	6.3V	
C617	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C621	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C622	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C623	1-126-916-11	ELECT	1000uF	20%	6.3V	
C631	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C632	1-124-443-00	ELECT	100uF	20%	10V	
C633	1-124-443-00	ELECT	100uF	20%	10V	
C691	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C692	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	

MAIN

Ref. No.	Part No.	Description	Remark
C693	1-163-001-11	CERAMIC CHIP 220PF 10% 50V	
		< CONNECTOR >	
CN11	1-764-156-11	PIN, CONNECTOR 8P	
CN12	1-764-156-11	PIN, CONNECTOR 8P	
CN13	1-764-156-11	PIN, CONNECTOR 8P	
CN14	1-764-156-11	PIN, CONNECTOR 8P	
CN15	1-764-156-11	PIN, CONNECTOR 8P	
* CN101	1-568-836-11	SOCKET, CONNECTOR 17P	
CN151	1-573-267-21	PIN, CONNECTOR 8P	
CN401	1-573-271-11	PIN, CONNECTOR 12P	
* CN402	1-573-262-11	PIN, CONNECTOR 3P	
* CN601	1-568-841-11	SOCKET, CONNECTOR 25P	
* CN602	1-564-340-00	PIN, CONNECTOR 6P	
* CN603	1-506-503-11	PIN, CONNECTOR 9P	
		< DIODE >	
D201	8-719-200-82	DIODE 11ES2	
D401	8-719-016-74	DIODE 1SS352	
D402	8-719-016-74	DIODE 1SS352	
D403	8-719-016-74	DIODE 1SS352	
D601	8-719-990-39	DIODE DCB010	
D602	8-719-990-39	DIODE DCB010	
D603	8-719-200-82	DIODE 11ES2	
D604	8-719-016-74	DIODE 1SS352	
D605	8-719-021-31	DIODE UZM5.1B	
D606	8-719-016-74	DIODE 1SS352	
D691	8-719-800-76	DIODE 1SS226	
		< IC >	
IC173	8-759-604-35	IC M5F78M05L	
IC174	8-759-700-65	IC NJM79L05A	
IC401	8-759-745-64	IC NJM4560M	
IC402	8-759-106-02	IC UPC4570G2	
IC451	8-759-636-55	IC M5218AFP	
IC601	8-759-188-08	IC HD6433388-A17F	
IC602	8-759-634-43	IC M51953BFP	
IC605	8-759-512-48	IC XR1092CP	
		< JACK >	
J101	1-565-352-11	JACK, PIN 2P (FRONT SPEAKER)	
		< JUMPER RESISTOR >	
JR601	1-216-295-00	METAL CHIP 0 5% 1/10W	(AEP, UK, G, IT)
JR602	1-216-295-00	METAL CHIP 0 5% 1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
JR603	1-216-295-00	METAL CHIP 0 5% 1/10W	

Ref. No.	Part No.	Description	Remark
		< COIL >	
L201	1-410-397-21	FERRITE BEAD INDUCTOR	
L603	1-410-397-21	FERRITE BEAD INDUCTOR	
L604	1-408-793-21	INDUCTOR CHIP 220uH	
L605	1-408-080-00	INDUCTOR 100uH	
		< TRANSISTOR >	
Q201	8-729-118-01	TRANSISTOR 2SB1116-K	
Q202	8-729-805-41	TRANSISTOR 2SC3398	
Q203	8-729-805-65	TRANSISTOR 2SA1344	
Q401	8-729-232-69	TRANSISTOR 2SK208-GR3	
Q402	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q403	8-729-602-21	TRANSISTOR 2SC4154-F	
Q404	8-729-805-65	TRANSISTOR 2SA1344	
Q405	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q406	8-729-602-21	TRANSISTOR 2SC4154-F	
Q407	8-729-805-65	TRANSISTOR 2SA1344	
Q408	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q409	8-729-805-65	TRANSISTOR 2SA1344	
Q410	8-729-805-65	TRANSISTOR 2SA1344	
Q451	8-729-232-69	TRANSISTOR 2SK208-GR3	
Q452	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q458	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q601	8-729-602-21	TRANSISTOR 2SC4154-F	
Q602	8-729-805-43	TRANSISTOR 2SC3396	
Q607	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q608	8-729-107-46	TRANSISTOR 2SC3624A-L15	
		< RESISTOR >	
R203	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R204	1-216-033-00	METAL CHIP 220 5% 1/10W	
R205	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R401	1-216-025-00	METAL CHIP 100 5% 1/10W	
R402	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R403	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R404	1-216-095-00	METAL CHIP 82K 5% 1/10W	
R405	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R406	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R407	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R408	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R409	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R410	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R411	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R412	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R413	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R414	1-216-033-00	METAL CHIP 220 5% 1/10W	
R415	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R416	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R417	1-216-025-00	METAL CHIP 100 5% 1/10W	
R418	1-216-041-00	METAL CHIP 470 5% 1/10W	

Ref.No.	Part No.	Description				Remark
R419	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R420	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R421	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R422	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R423	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R424	1-216-025-00	METAL CHIP	100	5%	1/10W	
R425	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R426	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R451	1-216-025-00	METAL CHIP	100	5%	1/10W	
R452	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R453	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R454	1-216-095-00	METAL CHIP	82K	5%	1/10W	
R455	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R456	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R457	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R458	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R459	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R460	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R461	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R462	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R463	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R464	1-216-033-00	METAL CHIP	220	5%	1/10W	
R465	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R466	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R467	1-216-025-00	METAL CHIP	100	5%	1/10W	
R471	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R472	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R473	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R474	1-216-025-00	METAL CHIP	100	5%	1/10W	
R475	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R497	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R498	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R499	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R601	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R602	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R603	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R605	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R606	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R607	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R608	1-216-036-00	METAL CHIP	300	5%	1/10W	
R609	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R610	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R611	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R614	1-216-025-00	METAL CHIP	100	5%	1/10W	
R615	1-216-025-00	METAL CHIP	100	5%	1/10W	
R616	1-216-025-00	METAL CHIP	100	5%	1/10W	
R617	1-216-025-00	METAL CHIP	100	5%	1/10W	
R618	1-216-025-00	METAL CHIP	100	5%	1/10W	
R619	1-216-025-00	METAL CHIP	100	5%	1/10W	
R621	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R622	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R623	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R624	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R625	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R626	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R627	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R631	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R632	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R633	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R634	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R637	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R642	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R643	1-216-043-00	METAL CHIP	560	5%	1/10W	
R644	1-216-043-00	METAL CHIP	560	5%	1/10W	
R645	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R646	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R647	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R648	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R649	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R695	1-216-025-00	METAL CHIP	100	5%	1/10W	
R696	1-216-025-00	METAL CHIP	100	5%	1/10W	
R697	1-216-025-00	METAL CHIP	100	5%	1/10W	
R698	1-216-025-00	METAL CHIP	100	5%	1/10W	
R699	1-216-025-00	METAL CHIP	100	5%	1/10W	
		< RELAY >				
RY401	1-515-803-11	RELAY				
RY402	1-515-803-11	RELAY				
		< VIBRATOR >				
X601	1-567-928-11	VIBLATOR, CERAMIC (20Hz)				

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* A-4365-428-A PANEL BOARD, COMPLETE

****

< CAPACITOR >

C703	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C704	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C705	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C706	1-104-694-91	FILM	0.1uF		100V
C708	1-104-694-91	FILM	0.1uF		100V
C709	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C711	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C748	1-164-159-11	CERAMIC	0.1uF		50V
C749	1-164-159-11	CERAMIC	0.1uF		50V
C751	1-124-584-00	ELECT	100uF	20%	10V
C752	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C753	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C754	1-163-038-00	CERAMIC CHIP	0.1uF		25V

PANEL

Ref. No.	Part No.	Description			Remark
C755	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C756	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C757	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C758	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C784	1-124-257-00	ELECT	2.2uF	20%	50V
C785	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C786	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C787	1-124-465-00	ELECT	0.47uF	20%	50V
C788	1-124-916-11	ELECT	22uF	20%	63V
C789	1-124-257-00	ELECT	2.2uF	20%	50V
C790	1-124-916-11	ELECT	22uF	20%	63V
C791	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
* CN701	1-764-412-11	SOCKET, CONNECTOR 25P			
* CN782	1-566-970-11	HOUSING, CONNECTOR(PC BOARD) 8P			
		< DIODE >			
D761	8-719-032-83	DIODE	SEL5220S (CURSOR CONTROL)		
D762	8-719-032-83	DIODE	SEL5220S (ENTER)		
D763	8-719-032-83	DIODE	SEL5220S (DIRECT)		
D764	8-719-032-83	DIODE	SEL5220S (KARAOKE PON)		
D765	8-719-026-64	DIODE	SML1260S (AI CONDITION)		
D766	8-719-026-64	DIODE	SML1260S (AI PEQ)		
D767	8-719-026-64	DIODE	SML1260S (AI LPC)		
D768	8-719-046-44	DIODE	SEL5221S (TUNER) (US, CND, E, AUS, EA, MY, SP, JE)		
D768	8-719-046-44	DIODE	SEL5221S (PHONO) (AEP, UK, G, IT)		
D769	8-719-046-44	DIODE	SEL5221S (CD) (US, CND, E, AUS, EA, MY, SP, JE)		
D769	8-719-046-44	DIODE	SEL5221S (TUNER) (AEP, UK, G, IT)		
D770	8-719-046-44	DIODE	SEL5221S (MD/DAT) (US, CND, E, AUS, EA, MY, SP, JE)		
D770	8-719-046-44	DIODE	SEL5221S (CD) (AEP, UK, G, IT)		
D771	8-719-046-44	DIODE	SEL5221S (TAPE)		
D772	8-719-045-39	DIODE	SML12460C (VIDEO1)		
D773	8-719-045-39	DIODE	SML12460C (VIDEO2) (US, CND, E, AUS, EA, MY, SP, JE)		
D773	8-719-045-39	DIODE	SML12460C (VIDEO2/MD/DAT) (AEP, UK, G, IT)		
D774	8-719-032-83	DIODE	SEL5220S (ON/STANDBY)		
		< FLUORESCENT INDICATOR >			
FL701	1-517-228-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC701	8-759-082-95	IC	SN755705FT		
IC702	8-759-082-95	IC	SN755705FT		
IC703	8-759-082-95	IC	SN755705FT		
IC751	8-759-188-06	IC	HD6433258-B09F		

Ref. No.	Part No.	Description			Remark
IC781	8-759-636-55	IC	M5218AFP		
		< TRANSISTOR >			
Q751	8-729-805-65	TRANSISTOR	2SA1344		
Q752	8-729-805-65	TRANSISTOR	2SA1344		
Q753	8-729-805-65	TRANSISTOR	2SA1344		
Q754	8-729-805-65	TRANSISTOR	2SA1344		
		< RESISTOR >			
R651	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R652	1-216-025-00	METAL CHIP	100	5%	1/10W
R653	1-216-027-00	METAL CHIP	120	5%	1/10W
R654	1-216-027-00	METAL CHIP	120	5%	1/10W
R655	1-216-029-00	METAL CHIP	150	5%	1/10W
R656	1-216-031-00	METAL CHIP	180	5%	1/10W
R657	1-216-033-00	METAL CHIP	220	5%	1/10W
R658	1-216-035-00	METAL CHIP	270	5%	1/10W
R659	1-216-037-00	METAL CHIP	330	5%	1/10W
R660	1-216-041-00	METAL CHIP	470	5%	1/10W
R661	1-216-043-00	METAL CHIP	560	5%	1/10W
R671	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R672	1-216-025-00	METAL CHIP	100	5%	1/10W
R673	1-216-027-00	METAL CHIP	120	5%	1/10W
R674	1-216-027-00	METAL CHIP	120	5%	1/10W
R675	1-216-029-00	METAL CHIP	150	5%	1/10W
R676	1-216-031-00	METAL CHIP	180	5%	1/10W
R677	1-216-033-00	METAL CHIP	220	5%	1/10W
R678	1-216-035-00	METAL CHIP	270	5%	1/10W
R679	1-216-037-00	METAL CHIP	330	5%	1/10W
R680	1-216-041-00	METAL CHIP	470	5%	1/10W
R681	1-216-043-00	METAL CHIP	560	5%	1/10W
R682	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R705	1-216-105-00	METAL CHIP	220K	5%	1/10W
R751	1-216-097-00	METAL CHIP	100K	5%	1/10W
R755	1-216-097-00	METAL CHIP	100K	5%	1/10W
R756	1-216-097-00	METAL CHIP	100K	5%	1/10W
R757	1-216-033-00	METAL CHIP	220	5%	1/10W
R758	1-216-033-00	METAL CHIP	220	5%	1/10W
R759	1-216-033-00	METAL CHIP	220	5%	1/10W
R760	1-216-033-00	METAL CHIP	220	5%	1/10W
R761	1-216-029-00	METAL CHIP	150	5%	1/10W
R762	1-216-029-00	METAL CHIP	150	5%	1/10W
R763	1-216-029-00	METAL CHIP	150	5%	1/10W
R764	1-216-029-00	METAL CHIP	150	5%	1/10W
R765	1-216-029-00	METAL CHIP	150	5%	1/10W
R766	1-216-029-00	METAL CHIP	150	5%	1/10W
R767	1-216-029-00	METAL CHIP	150	5%	1/10W
R768	1-216-029-00	METAL CHIP	150	5%	1/10W
R769	1-216-034-00	METAL CHIP	240	5%	1/10W
R770	1-216-034-00	METAL CHIP	240	5%	1/10W

Ref. No.	Part No.	Description				Remark
R771	1-216-029-00	METAL CHIP	150	5%	1/10W	
R772	1-216-029-00	METAL CHIP	150	5%	1/10W	
R773	1-216-029-00	METAL CHIP	150	5%	1/10W	
R781	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R782	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R783	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R784	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R785	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R786	1-216-041-00	METAL CHIP	470	5%	1/10W	
R787	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R788	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R789	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R790	1-216-049-00	METAL CHIP	1K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV781	1-223-553-11	RES, VAR, CARBON 20K (MIC LEVEL)				
		< SWITCH >				
S651	1-554-303-21	SWITCH, TACTILE (TUNER)				(US, CND, E, AUS, EA, MY, SP, JE)
S651	1-554-303-21	SWITCH, TACTILE (PHONO)				(AEP, UK, G, IT)
S652	1-554-303-21	SWITCH, TACTILE (CD)				(US, CND, E, AUS, EA, MY, SP, JE)
S652	1-554-303-21	SWITCH, TACTILE (TUNER)				(AEP, UK, G, IT)
S653	1-554-303-21	SWITCH, TACTILE (TAPE)				
S654	1-554-303-21	SWITCH, TACTILE (MD/DAT)				(US, CND, E, AUS, EA, MY, SP, JE)
S654	1-554-303-21	SWITCH, TACTILE (CD)				(AEP, UK, G, IT)
S655	1-554-303-21	SWITCH, TACTILE (VIDEO2)				(US, CND, E, AUS, EA, MY, SP, JE)
S655	1-554-303-21	SWITCH, TACTILE (VIDEO2/MD/DAT)				(AEP, UK, G, IT)
S656	1-554-303-21	SWITCH, TACTILE (VIDEO1)				
S657	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)				
S658	1-554-303-21	SWITCH, TACTILE (KARAOKE PON)				
S659	1-554-303-21	SWITCH, TACTILE (DSP MENU)				
S660	1-554-303-21	SWITCH, TACTILE (DSP CONTROL)				
S661	1-554-303-21	SWITCH, TACTILE (DISPLAY)				
S671	1-554-303-21	SWITCH, TACTILE (DIRECT)				
S672	1-554-303-21	SWITCH, TACTILE (ENTER)				
S673	1-554-303-21	SWITCH, TACTILE (CANCEL)				
S674	1-554-303-21	SWITCH, TACTILE (MEMORY)				
S675	1-554-303-21	SWITCH, TACTILE (▽)				
S676	1-554-303-21	SWITCH, TACTILE (◁)				
S677	1-554-303-21	SWITCH, TACTILE (△)				
S678	1-554-303-21	SWITCH, TACTILE (▷)				
S679	1-572-184-11	SWITCH, KEYBOARD (AI PEQ)				
S680	1-572-184-11	SWITCH, KEYBOARD (AI LPC)				
S681	1-572-184-11	SWITCH, KEYBOARD (AI CONDITION)				
S682	1-554-303-21	SWITCH, TACTILE (PROGRAM FUNCTION)				

Ref. No.	Part No.	Description				Remark
		< VIBRATOR >				
X751	1-567-927-11	VIBLATOR, CERAMIC (16MHz)				
**********						
*	A-4365-431-A	PIN JACK BOARD, COMPLETE				(US, CND)
		**********				
*	A-4365-321-A	PIN JACK BOARD, COMPLETE				
		**********				(E, AUS, EA, MY, SP, JE)
*	A-4365-324-A	PIN JACK BOARD, COMPLETE				(G, IT)
		**********				
*	A-4365-327-A	PIN JACK BOARD, COMPLETE				(AEP, UK)
		**********				
		< CAPACITOR >				
C501	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C502	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C503	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C504	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C505	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C506	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	(US, CND, E, AUS, EA, MY, SP, JE)
C507	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C508	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C509	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C510	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C511	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	(AEP, UK, G, IT)
C512	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C513	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C514	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C515	1-126-022-11	ELECT	47uF	20%	16V	
C521	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C522	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C523	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C524	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C525	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C526	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	(US, CND, E, AUS, EA, MY, SP, JE)
C527	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C528	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C529	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C530	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C531	1-163-001-11	CERAMIC CHIP	220PF	10%	50	(AEP, UK, G, IT)
C532	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C533	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C534	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C535	1-126-022-11	ELECT	47uF	20%	16V	

PIN JACK

Ref. No.	Part No.	Description			Remark
C549	1-164-159-11	CERAMIC	0.1uF		50V
C551	1-126-301-11	ELECT	1uF	20%	50V
C552	1-126-301-11	ELECT	1uF	20%	50V
C553	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C554	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C555	1-126-022-11	ELECT	47uF	20%	16V
C556	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C557	1-126-022-11	ELECT	47uF	20%	16V
C559	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C560	1-126-925-11	ELECT	470uF	20%	10V
C561	1-126-925-11	ELECT	470uF	20%	10V
C562	1-126-925-11	ELECT	470uF	20%	10V
C571	1-164-005-11	CERAMIC CHIP	0.47uF		25 (AEP, UK, G, IT)
C572	1-163-001-11	CERAMIC CHIP	220PF	10%	50 (AEP, UK, G, IT)
C573	1-126-163-11	ELECT	4.7uF	20%	50 (AEP, UK, G, IT)
C574	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50 (AEP, UK, G, IT)
C575	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50 (AEP, UK, G, IT)
C576	1-126-161-11	ELECT	2.2uF	20%	50 (AEP, UK, G, IT)
C577	1-163-251-11	CERAMIC CHIP	100PF	5%	50 (AEP, UK, G, IT)
C581	1-164-005-11	CERAMIC CHIP	0.47uF		25 (AEP, UK, G, IT)
C582	1-163-001-11	CERAMIC CHIP	220PF	10%	50 (AEP, UK, G, IT)
C583	1-126-163-11	ELECT	4.7uF	20%	50 (AEP, UK, G, IT)
C584	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50 (AEP, UK, G, IT)
C585	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50 (AEP, UK, G, IT)
C586	1-126-161-11	ELECT	2.2uF	20%	50 (AEP, UK, G, IT)
C587	1-163-251-11	CERAMIC CHIP	100PF	5%	50 (AEP, UK, G, IT)
C591	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (G, IT)
C593	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (G, IT)
C595	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (G, IT)
C597	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C598	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C599	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

CN501	1-568-860-11	SOCKET, CONNECTOR 17P
CN502	1-764-013-41	HOUSING, CONNECTOR(PC BOARD) 5P (SYSTEM CONTROL)
* CN503	1-573-275-11	PIN, CONNECTOR 5P
* CN591	1-573-265-31	PIN, CONNECTOR 6P
CN951	1-751-217-51	LEAD (WITH CONNECTOR) (3 CORE) (E, AUS, EA, MY, SP, JE)

< IC >

IC501	8-759-195-15	IC SC027MG051BF
IC502	8-759-195-15	IC SC027MG051BF
IC503	8-759-636-55	IC M5218AFP (AEP, UK, G, IT)
IC504	8-759-195-15	IC SC027MG051BF
IC505	8-759-195-21	IC SC027MG066BF
IC506	8-759-195-21	IC SC027MG066BF
IC551	8-759-061-95	IC SN761200N

< JACK >

J501	1-565-303-11	JACK, PIN 6P (VIDEO1, VIDEO2 IN) (US, CND)
* J501	1-569-812-11	JACK, PIN 6P (VIDEO1, VDEO2/MD/DAT IN) (AEP, UK, G, IT)
* J501	1-569-812-11	JACK, PIN 6P (VIDEO1, VIDEO2 IN) (E, AUS, EA, MY, SP, JE)
J502	1-565-303-11	JACK, PIN 6P (TAPE, VIDEO2 OUT) (US, CND)
* J502	1-569-812-11	JACK, PIN 6P (TAPE, VIDEO2/MD/DAT OUT) (AEP, UK, G, IT)
* J502	1-569-812-11	JACK, PIN 6P (TAPE, VIDEO2 OUT) (E, AUS, EA, MY, SP, JE)
J503	1-565-304-11	JACK, PIN 4P (MD/DAT) (US, CND)
J503	1-565-304-41	JACK, PIN 4P (TUNER, CD) (AEP, UK, G, IT)
J503	1-565-304-41	JACK, PIN 4P (MD/DAT) (E, AUS, EA, MY, SP, JE)
J504	1-565-304-11	JACK, PIN 4P (TUNER, CD) (US, CND)
J504	1-565-304-41	JACK, PIN 4P (TUNER, CD) (E, AUS, EA, MY, SP, JE)
J504	1-573-110-11	JACK, PIN 2P (PHONO) (AEP, UK, G, IT)
J551	1-565-933-11	JACK, PIN 3P (MONITOR, VIDEO1)
J552	1-573-144-11	JACK, PIN 2P (VIDEO2)
* J591	1-764-389-11	JACK, PIN 2P (REAR SPEAKER)
* J592	1-764-390-11	JACK, PIN 2P (CENTER SPEAKER/SUPER WOOFER)

< JUMPER RESISTOR >

JR501	1-216-295-00	METAL CHIP	0	5%	1/10W (US, CND, E, AUS, EA, MY, SP, JE)
JR503	1-216-295-00	METAL CHIP	0	5%	1/10W (AEP, UK, G, IT)
JR521	1-216-295-00	METAL CHIP	0	5%	1/10W (US, CND, E, AUS, EA, MY, SP, JE)
JR523	1-216-295-00	METAL CHIP	0	5%	1/10W (AEP, UK, G, IT)

< COIL >

L551	1-410-397-21	FERRITE BEAD INDUCTOR

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q501	8-729-805-41	TRANSISTOR	2SC3398			
Q502	8-729-805-41	TRANSISTOR	2SC3398			
Q503	8-729-805-41	TRANSISTOR	2SC3398			
Q551	8-729-600-22	TRANSISTOR	2SA1235-F			
Q552	8-729-600-22	TRANSISTOR	2SA1235-F			
Q553	8-729-600-22	TRANSISTOR	2SA1235-F			
		< RESISTOR >				
R501	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R502	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R503	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R504	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R505	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R506	1-216-049-00	METAL CHIP	1K	5%	1/10W	(AEP, UK, G, IT)
R506	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R507	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R508	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R509	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R510	1-216-049-00	METAL CHIP	1K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R511	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R512	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R513	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R514	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R515	1-216-089-91	METAL GLAZE	47K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R515	1-216-097-00	METAL CHIP	100K	5%	1/10W	(AEP, UK, G, IT)
R516	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R516	1-216-089-91	METAL GLAZE	47K	5%	1/10W	(AEP, UK, G, IT)
R517	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R518	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R519	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R520	1-216-115-00	METAL CHIP	560K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R521	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R522	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R523	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R524	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R525	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R526	1-216-049-00	METAL CHIP	1K	5%	1/10W	(AEP, UK, G, IT)
R526	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R527	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R528	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R529	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R530	1-216-049-00	METAL CHIP	1K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R531	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R532	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R533	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R534	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R535	1-216-089-91	METAL GLAZE	47K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R535	1-216-097-00	METAL CHIP	100K	5%	1/10W	(AEP, UK, G, IT)
R536	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R536	1-216-089-91	METAL GLAZE	47K	5%	1/10W	(AEP, UK, G, IT)
R537	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R538	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R539	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R540	1-216-115-00	METAL CHIP	560K	5%	1/10W	(US, CND, E, AUS, EA, MY, SP, JE)
R541	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R542	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R543	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R544	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R546	1-216-033-00	METAL CHIP	220	5%	1/10W	
R547	1-216-033-00	METAL CHIP	220	5%	1/10W	
R548	1-216-033-00	METAL CHIP	220	5%	1/10W	
R553	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R554	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R555	1-216-031-00	METAL CHIP	180	5%	1/10W	
R556	1-216-031-00	METAL CHIP	180	5%	1/10W	
R557	1-216-031-00	METAL CHIP	180	5%	1/10W	
R558	1-216-025-00	METAL CHIP	100	5%	1/10W	
R559	1-216-025-00	METAL CHIP	100	5%	1/10W	
R560	1-216-025-00	METAL CHIP	100	5%	1/10W	
R561	1-216-022-00	METAL CHIP	75	5%	1/10W	
R562	1-216-022-00	METAL CHIP	75	5%	1/10W	
R563	1-216-022-00	METAL CHIP	75	5%	1/10W	
R564	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R565	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R566	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R567	1-216-033-00	METAL CHIP	220	5%	1/10W	
R568	1-216-033-00	METAL CHIP	220	5%	1/10W	
R571	1-216-089-91	METAL GLAZE	47K	5%	1/10W	(AEP, UK, G, IT)
R572	1-216-049-00	METAL CHIP	1K	5%	1/10W	(AEP, UK, G, IT)
R573	1-216-115-00	METAL CHIP	560K	5%	1/10W	(AEP, UK, G, IT)
R574	1-216-089-91	METAL GLAZE	47K	5%	1/10W	(AEP, UK, G, IT)

PIN JACK | POWER

Ref. No.	Part No.	Description			Remark
R575	1-216-001-00	METAL CHIP	10	5%	1/10W (AEP, UK, G, IT)
R576	1-216-097-00	METAL CHIP	100K	5%	1/10W (AEP, UK, G, IT)
R577	1-216-073-00	METAL CHIP	10K	5%	1/10W
R578	1-216-073-00	METAL CHIP	10K	5%	1/10W
R579	1-216-073-00	METAL CHIP	10K	5%	1/10W
R581	1-216-089-91	METAL GLAZE	47K	5%	1/10W (AEP, UK, G, IT)
R582	1-216-049-00	METAL CHIP	1K	5%	1/10W (AEP, UK, G, IT)
R583	1-216-115-00	METAL CHIP	560K	5%	1/10W (AEP, UK, G, IT)
R584	1-216-089-91	METAL GLAZE	47K	5%	1/10W (AEP, UK, G, IT)
R585	1-216-001-00	METAL CHIP	10	5%	1/10W (AEP, UK, G, IT)
R586	1-216-097-00	METAL CHIP	100K	5%	1/10W (AEP, UK, G, IT)
R591	1-216-009-00	METAL CHIP	22	5%	1/10W (G, IT)
R592	1-216-009-00	METAL CHIP	22	5%	1/10W (G, IT)
R593	1-216-009-00	METAL CHIP	22	5%	1/10W (G, IT)
R594	1-216-009-00	METAL CHIP	22	5%	1/10W (G, IT)
R595	1-216-009-00	METAL CHIP	22	5%	1/10W (G, IT)
R596	1-216-009-00	METAL CHIP	22	5%	1/10W (G, IT)
R597	1-216-025-00	METAL CHIP	100	5%	1/10W
		< SWITCH >			
⚠S901	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (E, AUS, EA, MY, SP, JE)			

****

* A-4369-320-A POWER BOARD, COMPLETE (US, CND)
****

* A-4369-323-A POWER BOARD, COMPLETE
****
(E, AUS, EA, MY, SP, JE)

* A-4369-326-A POWER BOARD, COMPLETE (G, IT)
****

* A-4369-329-A POWER BOARD, COMPLETE (AEP, UK)
****

< CAPACITOR >

C881	1-126-023-11	ELECT	100uF	20%	16V
C882	1-126-022-11	ELECT	47uF	20%	16V
C900	1-164-159-11	CERAMIC	0.1uF		50V
C901	1-126-029-11	ELECT	3300uF	20%	25V
C902	1-124-556-11	ELECT	2200uF	20%	16V
C903	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C904	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C905	1-136-165-00	FILM	0.1uF	5%	50V
C906	1-136-165-00	FILM	0.1uF	5%	50V
C907	1-136-165-00	FILM	0.1uF	5%	50V
C950	1-164-159-11	CERAMIC	0.1uF		50V
C951	1-126-029-11	ELECT	3300uF	20%	25V
C961	1-124-122-11	ELECT	100uF	20%	50V
C962	1-124-122-11	ELECT	100uF	20%	50V
C963	1-124-122-11	ELECT	100uF	20%	50V
C964	1-124-122-11	ELECT	100uF	20%	50V
C965	1-126-890-11	ELECT	10uF	20%	100V
C966	1-126-890-11	ELECT	10uF	20%	100V
C967	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C968	1-163-038-00	CERAMIC CHIP	0.1uF		25V
⚠C991	1-161-743-00	CERAMIC	0.0047uF		400V (US, CND, E, G, IT, AUS, EA, MY, SP, JE)
⚠C991	1-162-599-12	CERAMIC	0.0047uF	20%	400V (AEP, UK)
C992	1-126-301-11	ELECT	1uF	20%	50V
C993	1-124-478-11	ELECT	100uF	20%	25V
		< CONNECTOR >			
* CN821	1-573-266-41	PIN, CONNECTOR 7P			
* CN822	1-573-265-31	PIN, CONNECTOR 6P			
* CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P			
CN902	1-564-321-00	PIN, CONNECTOR 2P			
CN903	1-564-321-00	PIN, CONNECTOR 2P			
CN904	1-564-687-11	PIN, CONNECTOR 3P (E, AUS, EA, MY, SP, JE)			
* CN905	1-506-503-11	PIN, CONNECTOR 9P			
* CN906	1-573-264-21	PIN, CONNECTOR 5P			
* CN907	1-573-264-11	PIN, CONNECTOR 5P			
⚠CNJ902	1-526-794-11	OUTLET, AC (EXCEPT US, CND)			
⚠CNJ902	1-526-882-00	OUTLET, AC (US, CND)			
⚠CNJ903	1-526-794-11	OUTLET, AC (EXCEPT US, CND)			
⚠CNJ903	1-526-882-00	OUTLET, AC (US, CND)			
		< DIODE >			
D881	8-719-016-74	DIODE	1SS352		
D882	8-719-016-74	DIODE	1SS352		
D901	8-719-200-82	DIODE	11ES2		
D902	8-719-200-82	DIODE	11ES2		
D903	8-719-200-82	DIODE	11ES2		
D904	8-719-200-82	DIODE	11ES2		
D905	8-719-200-82	DIODE	11ES2		
D906	8-719-200-82	DIODE	11ES2		
D907	8-719-200-82	DIODE	11ES2		
D908	8-719-200-82	DIODE	11ES2		
D961	8-719-200-82	DIODE	11ES2		
D962	8-719-200-82	DIODE	11ES2		
D963	8-719-200-82	DIODE	11ES2		
D964	8-719-200-82	DIODE	11ES2		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
D965	8-719-022-80	DIODE UZM-36Z	
D966	8-719-022-80	DIODE UZM-36Z	
D967	8-719-015-99	DIODE UZP-27BB	
D968	8-719-200-82	DIODE 11ES2	
D991	8-719-016-74	DIODE 1SS352	
D992	8-719-016-74	DIODE 1SS352	
D993	8-719-200-82	DIODE 11ES2	
D994	8-719-016-74	DIODE 1SS352	
		< FUSE >	
⚠F905	1-532-286-00	FUSE, TIME-LAG (T2.5A) (EXCEPT US, CND)	
⚠F906	1-532-299-00	FUSE, TIME-LAG (T5A) (EXCEPT US, CND)	
⚠F906	1-532-747-11	FUSE, GLASS TUBE (5A/125V) (US, CND)	
⚠F907	1-532-299-00	FUSE, TIME-LAG (T5A) (EXCEPT US, CND)	
⚠F907	1-532-747-11	FUSE, GLASS TUBE (5A/125V) (US, CND)	
		< FERRITE BEAD >	
FB901	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH	
FB951	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH	
FB991	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH	(EXCEPT US, CND)
FB992	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH	(EXCEPT US, CND)
		< FUSE HOLDER >	
* FH905	1-533-293-11	FUSE HOLDER (EXCEPT US, CND)	
* FH906	1-533-293-11	FUSE HOLDER	
* FH907	1-533-293-11	FUSE HOLDER	
* FH915	1-533-293-11	FUSE HOLDER (EXCEPT US, CND)	
* FH916	1-533-293-11	FUSE HOLDER	
* FH917	1-533-293-11	FUSE HOLDER	
		< TRANSISTOR >	
Q881	8-729-602-21	TRANSISTOR 2SC4154-F	
Q882	8-729-602-21	TRANSISTOR 2SC4154-F	
Q883	8-729-602-21	TRANSISTOR 2SC4154-F	
Q884	8-729-602-21	TRANSISTOR 2SC4154-F	
Q885	8-729-602-36	TRANSISTOR 2SA1602-F	
Q886	8-729-602-36	TRANSISTOR 2SA1602-F	
Q887	8-729-805-41	TRANSISTOR 2SC3398	
Q901	8-729-602-21	TRANSISTOR 2SC4154-F	
Q902	8-729-022-53	TRANSISTOR 2SC2958-KLM	
Q903	8-729-805-41	TRANSISTOR 2SC3398	
Q904	8-729-022-53	TRANSISTOR 2SC2958-KLM	
Q995	8-729-602-21	TRANSISTOR 2SC4154-F	
		< RESISTOR >	
R823	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R873	1-216-091-00	METAL CHIP 56K 5% 1/10W	
⚠R881	1-247-743-11	CARBON 220 5% 1/2W F	
⚠R882	1-247-743-11	CARBON 220 5% 1/2W F	
R883	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R884	1-216-308-00	METAL CHIP 4.7 5% 1/10W	
R885	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R886	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R887	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R888	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R889	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R890	1-216-073-00	METAL CHIP 10K 5% 1/10W	
⚠R901	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
⚠R902	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
⚠R919	1-219-136-11	FUSIBLE 0.22 5% 1/4W F	
R961	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R962	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R963	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R964	1-216-025-00	METAL CHIP 100 5% 1/10W	
R965	1-216-025-00	METAL CHIP 100 5% 1/10W	
R991	1-216-073-00	METAL CHIP 10K 5% 1/10W	
⚠R992	1-247-743-11	CARBON 220 5% 1/2W F	
R993	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R994	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R995	1-216-049-00	METAL CHIP 1K 5% 1/10W	
⚠R996	1-212-875-00	FUSIBLE 56 5% 1/4W F	
R997	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R999	1-202-725-00	SOLID 3.3M 10% 1/2W (US, CND)	
		< RELAY >	
RY881	1-515-921-11	RELAY (12V)	
RY882	1-515-621-11	RELAY	
⚠RY991	1-515-738-11	RELAY, POWER	
RY992	1-515-921-11	RELAY (12V)	
		< TRANSFORMER >	
⚠T901	1-426-646-11	TRANSFORMER, POWER (UK)	
⚠T901	1-426-647-11	TRANSFORMER, POWER (AEP, G, IT)	
⚠T901	1-426-648-11	TRANSFORMER, POWER (E, AUS, EA, MY, SP, JE)	
⚠T901	1-426-649-11	TRANSFORMER, POWER (US, CND)	

****

*	1-650-040-11	REG BOARD	
		*********	
		< CAPACITOR >	
C191	1-126-096-11	ELECT 10uF 20% 35V	
C192	1-126-157-11	ELECT 10uF 20% 16V	
C193	1-126-096-11	ELECT 10uF 20% 35V	
C194	1-126-157-11	ELECT 10uF 20% 16V	
C195	1-126-157-11	ELECT 10uF 20% 16V	
C196	1-126-157-11	ELECT 10uF 20% 16V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

REG VOLUME

Ref. No.	Part No.	Description				Remark
		< IC >				
IC155	8-759-158-77	IC TA78057S(LBSONY)				
IC171	8-759-604-39	IC M5F78M12L				
IC172	8-759-604-45	IC M5F79M12L				
**********						
*	1-649-569-11	VOLUME BOARD				
		**********				
		< CAPACITOR >				
C491	1-126-059-11	ELECT	10uF	20%	50V	
C492	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
		< CONNECTOR >				
* CN491	1-573-282-11	PIN, CONNECTOR 12P				
* CN492	1-564-499-11	PIN, CONNECTOR 6P				
		< IC >				
IC491	8-759-823-87	IC LB1638M				
		< RESISTOR >				
R491	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R492	1-216-049-00	METAL CHIP	1K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV491	1-223-503-11	RES, VAR, CARBON 20KX5 (VOLUME)				
**********						
		MISCELLANEOUS				
		**********				
6	1-751-949-11	WIRE (FLAT TYPE) (25 CORE)				
12	1-575-733-11	WIRE, FLAT TYPE (17 CORE)				
⚠16	1-751-216-42	LEAD (WITH CONNECTOR) (2 CORE)				
⚠17	1-526-794-11	OUTLET, AC (EXCEPT US, CND)				
⚠17	1-526-882-00	OUTLET, AC (US, CND)				
⚠19	1-575-651-21	CORD, POWER (AEP, G, IT, EA, MY, SP)				
⚠19	1-590-836-11	CORD, POWER (US, CND)				
⚠19	1-696-586-11	CORD, POWER (UK)				
⚠19	1-696-845-11	CORD, POWER (AUS)				
⚠19	1-751-621-11	CORD, POWER (E, JE)				

Ref. No.	Part No.	Description	Remark
⚠F905	1-532-286-00	FUSE, TIME-LAG (T2.5A)	(AEP, UK, E, G, IT, AUS, EA, MY, SP, JE)
⚠F906	1-532-299-00	FUSE, TIME-LAG (T5A)	(AEP, UK, E, G, IT, AUS, EA, MY, SP, JE)
⚠F906	1-532-747-11	FUSE, GLASS TUBE (5A/125V) (US, CND)	
⚠F907	1-532-299-00	FUSE, TIME-LAG (T5A)	(AEP, UK, E, G, IT, AUS, EA, MY, SP, JE)
⚠F907	1-532-747-11	FUSE, GLASS TUBE (5A/125V) (US, CND)	
⚠T901	1-426-646-11	TRANSFORMER, POWER (UK)	
⚠T901	1-426-647-11	TRANSFORMER, POWER (AEP, G, IT)	
⚠T901	1-426-648-11	TRANSFORMER, POWER (E, AUS, EA, MY, SP, JE)	
⚠T901	1-426-649-11	TRANSFORMER, POWER (US, CND)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-682-547-09	SCREW +BVTT 3X6 (S)	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#5	7-621-849-00	SCREW, TAPPING	
#6	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

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9-959-369-11

Sony Corporation
Audio Group

English
94B0997-1
Printed in Japan

Published by Audio Sector Quality Assurance Dept.