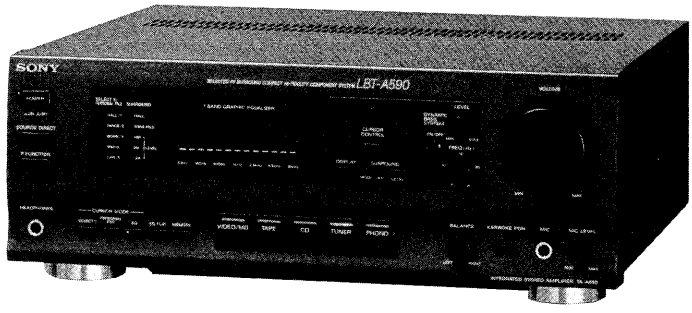
TA-A590

SERVICE MANUAL

AEP Model
E Model
Australian Model
PX Model



TA-A590 is the amplifier in LBT-A590/A595.

This photo is E/Australian/PX model.

SPECIFICATIONS

DIN power output 60 W + 60 W (6 ohms, at 1 kHz)
Continuous RMS power output
70 W + 70 W (6 ohms, at 1 kHz, 5% THD)
Music power output 110 W + 110 W (6 ohms)

Input	Jack type	Sensitivity	Impedance
PHONO (MM)	Phono	3 mV	47 kohms
VIDEO/MD	Phono	400 mV	47 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response 15 Hz to 50 kHz $^{+0}_{-3}$ dB
Power requirements
Model for Australian:
240 V AC, 50/60 Hz
Models for European countries:
220 V – 230 V AC, 50/60 Hz
Models for other countries: 120 V,
220 V or 230 – 240 V AC adjustable,
50/60 Hz
Model for Mexican: 120 V AC, 60 Hz

Power consumption
AEP model : 165 W
E model : 190 W
AU model : 190 W
MX model : 167 W

Weight
AEP model : Approx. 6.6 kg (14 lbs 9 oz)
MX model : 6.1 kg
Models for other countries: 6.7 kg

Dimensions
Approx. 355 x 135 x 330 mm
(14 x 5 1/4 x 12 7/8 inches)
(w/h/d, including projections)

Design and specifications are subject to change without notice.

- Abbreviations
AU : Australian
MX : Mexican

INTEGRATED STEREO AMPLIFIER

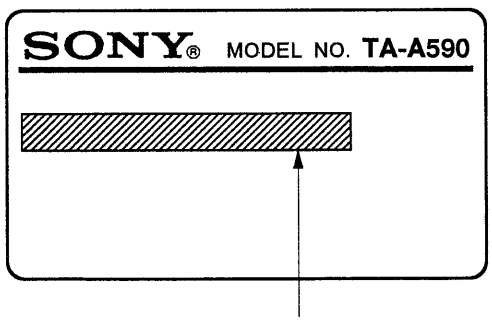
SONY®

TABLE OF CONTENTS

Section	Title	Page
Specifications		1
1.	**GENERAL**	
1-1.	Location of Controls	2
2.	**DISASSEMBLY**	3
3.	**DIAGRAMS**	
3-1.	Block Diagram	4
3-2.	Main Section Printed Wiring Boards	8
3-3.	Main Section Schematic Diagram	11
3-4.	Panel/Audio Section Schematic Diagram	15
3-5.	Panel/Audio Section Printed Wiring Boards	19
3-6.	IC Pin Description	22
4.	**EXPLODED VIEWS**	25
5.	**ELECTRICAL PARTS LIST**	27

MODEL IDENTIFICATION

– Specification Label Printed on Back Panel –



AEP, German, Italian, East European,
CIS model: AC 220 – 230 V ~50/60 Hz
Australian model: AC 240 V ~50/60 Hz
E, Saudi Arabia, Malaysia, Singapore,
PX model: AC 120/220/230 – 240 V ~50/60 Hz
Mexican model: AC 120 V ~60 Hz

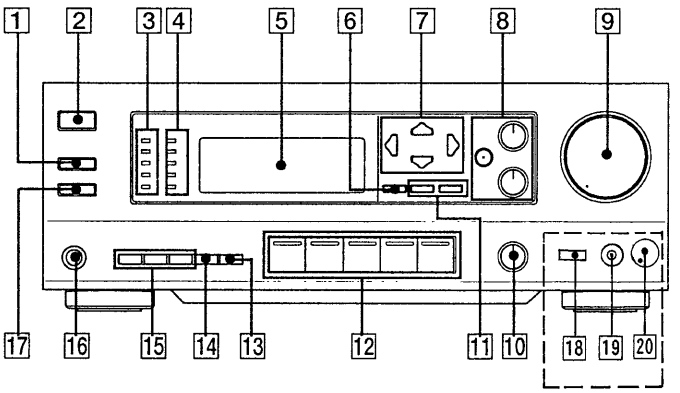
SAFETY-RELATED COMPONENT WARNING!!

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.

SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. LOCATION OF CONTROLS



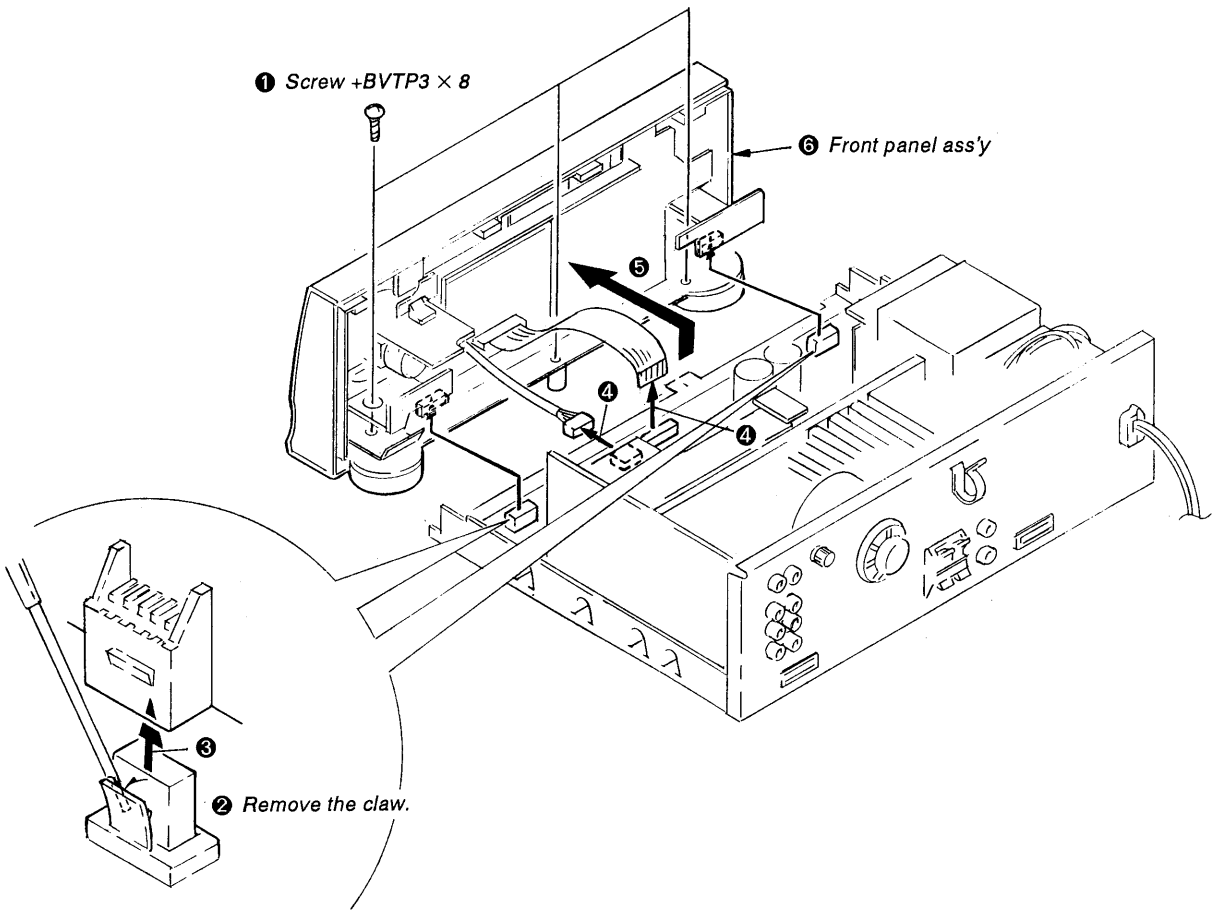
E, Australian, PX model

1 SOURCE DIRECT button and indicator (86)
2 POWER switch (18)
3 SELECT 5/PERSONAL FILE setting indicators (88, 98)
4 SURROUND MODE/OFF, SURROUND LEVEL setting indicators (86)
5 Display window
6 DISPLAY button (94)
7 CURSOR CONTROL buttons (88, 90, 94, 98)
8 DYNAMIC BASS SYSTEM button and controls (ON/OFF, FREQ, LEVEL) (20)
9 VOLUME control (20)
10 BALANCE control (20)
11 SURROUND buttons (MODE/OFF, LEVEL) (86)
12 Function selectors and indicators (38)
13 MEMORY button and indicator (96)
14 EQ FLAT button (94)
15 CURSOR MODE buttons (SELECT 5, PERSONAL FILE, EQ and indicators) (88, 90, 96, 98)
16 HEADPHONES jack (20)
17 P. FUNCTION button and indicator (122)
18 KARAOKE PON button (E, Australian, PX, model)
19 MIC jack (E, Australian, PX, model)
20 MIC LEVEL control (E, Australian, PX, model)

SECTION 2
DISASSEMBLY

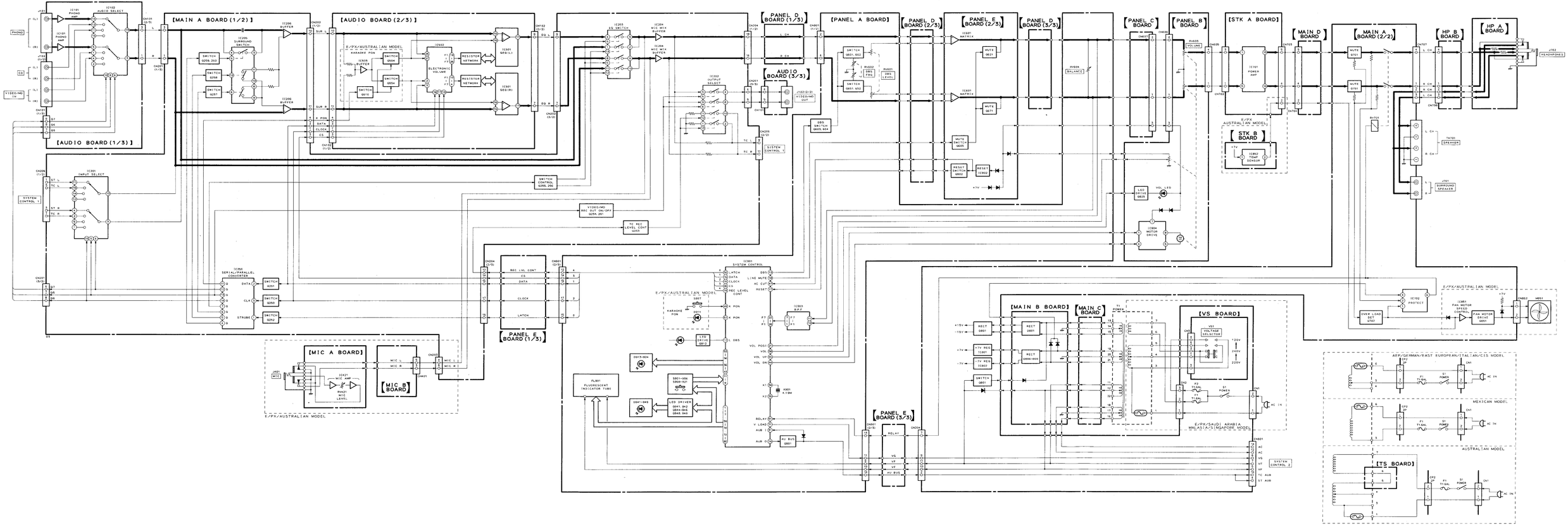
Note: Follow the disassembly procedure in the numerical order given.

Front panel ass'y



SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM


【AUDIO BOARD (1/3)】
【MAIN A BOARD (1/2)】
【AUDIO BOARD (2/3)】
【PANEL D BOARD (1/3)】
【PANEL A BOARD】
【PANEL D BOARD (2/3)】
【PANEL E BOARD (2/3)】
【PANEL D BOARD (3/3)】
【PANEL C BOARD】
【PANEL B BOARD】
【STK A BOARD】
【MAIN D BOARD】
【MAIN A BOARD (2/2)】
【HP B BOARD】
【HP A BOARD】
【PANEL E BOARD (1/3)】
【PANEL E BOARD (3/3)】
【MIC A BOARD】
【MIC B BOARD】
【MAIN B BOARD】
【MAIN C BOARD】
【VS BOARD】
【TS BOARD】
【STK B BOARD】
E/PX/AUSTRALIAN MODEL
AEP/GERMAN/EAST EUROPEAN/ITALIAN/CES MODEL
MEXICAN MODEL
AUSTRALIAN MODEL
E/PX/SAUDI ARABIA MALASTA/SINGAPORE MODEL
PHONO
CD
VIDEO/MD TV
SYSTEM CONTROL 1
SYSTEM CONTROL 2
IC101 PHONO AMP
IC102 AUDIO SELECT
IC201 INPUT SELECT
IC202 OUTPUT SELECT
IC250 SERIAL/PARALLEL CONVERTER
IC001 SYSTEM CONTROL
IC421 MIC AMP
IC001 MATRIX
IC701 POWER AMP
IC852 TEMP SENSOR
IC702 PROTECT
IC803 FAN MOTOR DRIVE
IC804 MOTOR DRIVE
IC802 RESET
IC903 E.P.F.
IC205 EQ SWITCH
IC204 MIC MIX AMP
IC203 MIC BUFFER
IC502 ELECTRONIC VOLUME
IC501 GEQ (L)
IC601 GEQ (R)
IC809 KARAOKE PCN
IC206 BUFFER
IC207 SURROUND SWITCH
IC208 MIXER
IC209 SURROUND DECODER
IC210 BUFFER
IC211 BUFFER
IC212 BUFFER
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IC421 MIC AMP
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IC437 BUFFER
IC438 BUFFER
IC439 BUFFER
IC440 BUFFER
IC441 BUFFER

TA-A590

3-2. MAIN SECTION PRINTED WIRING BOARDS

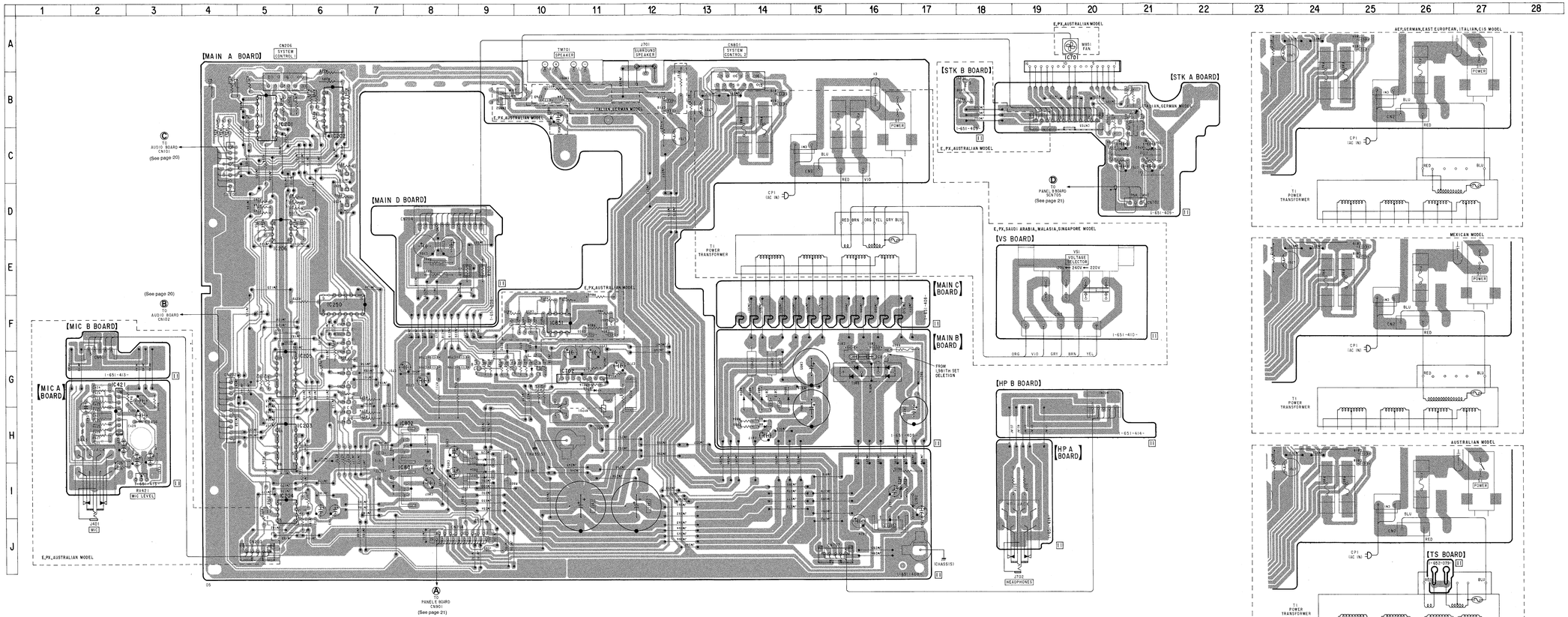
• See page 24 for Semiconductor Lead Layouts.

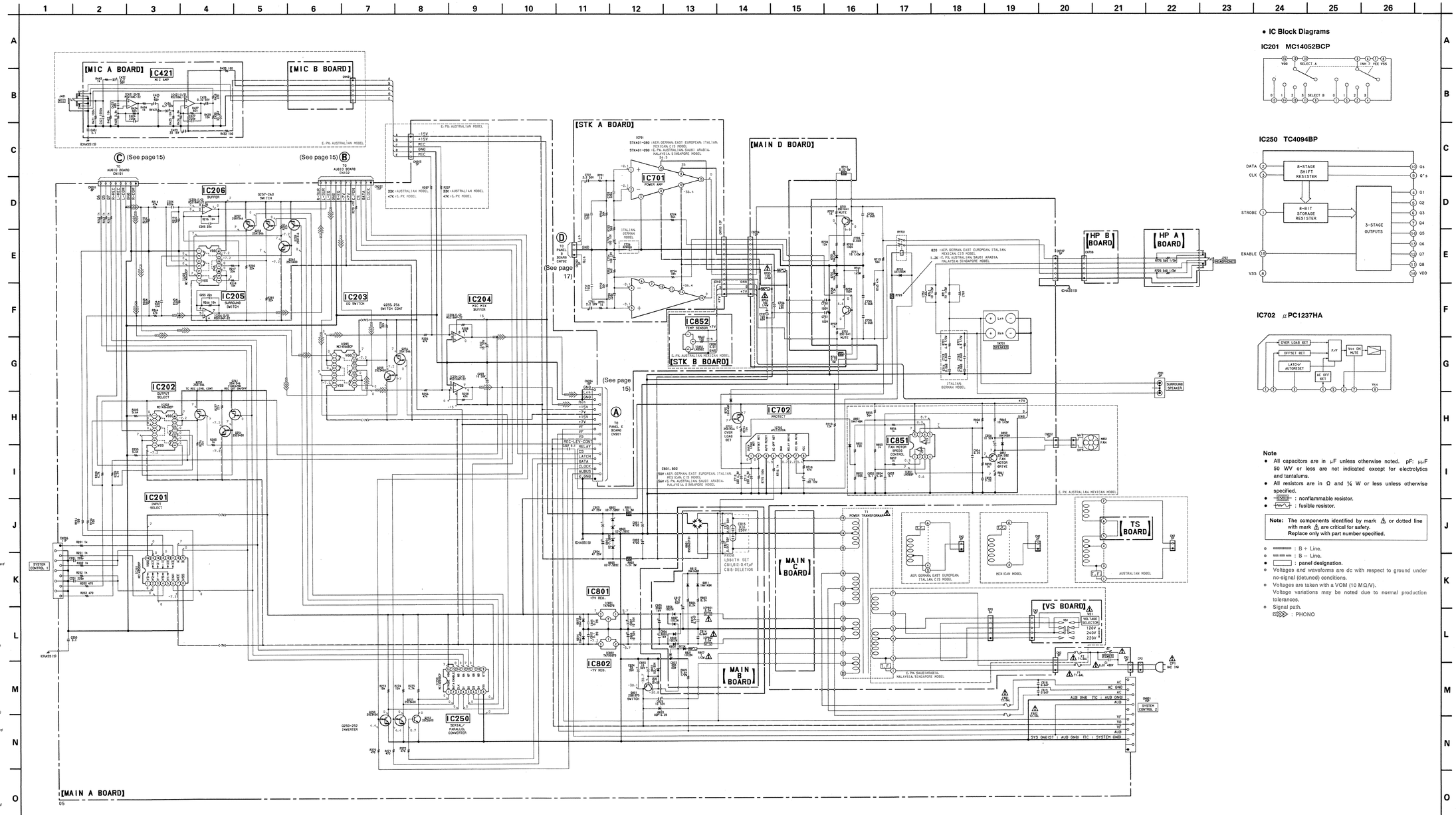
• Semiconductor Location

Ref. No.	Location
D701	F-10
D702	F-9
D703	G-11
D705	G-10
D801	G-15
D802	H-9
D803	I-9
D804	I-9
D805	I-9
D806	G-14
D807	G-14
D808	G-14
D809	G-13
D811	H-14
D812	H-14
D813	I-7
D814	H-7
D821	G-17
D822	I-16
D823	I-17
D851	F-10
D852	B-10
IC201	B-5
IC202	B-6
IC203	H-5
IC204	I-5
IC205	G-5
IC206	D-5
IC250	F-6
IC421	G-2
IC701	A-18
IC702	G-10
IC801	I-7
IC802	H-7
IC851	F-10
IC852	B-17
Q250	G-6
Q251	H-6
Q252	H-6
Q253	D-6
Q254	C-6
Q255	G-6
Q256	G-6
Q257	F-6
Q258	F-6
Q259	F-6
Q260	D-6
Q261	D-6
Q701	G-9
Q702	G-10
Q751	G-9
Q801	J-16
Q851	F-11

Note

• ○—— : parts extracted from the component side.





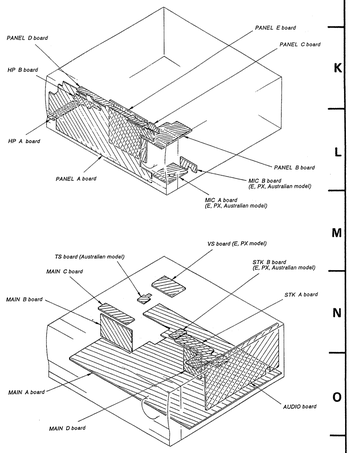
• IC Block Diagrams

IC201 MC14052BCP

IC250 TC4094BP

IC702 μPC1237HA

• Circuit Boards Location



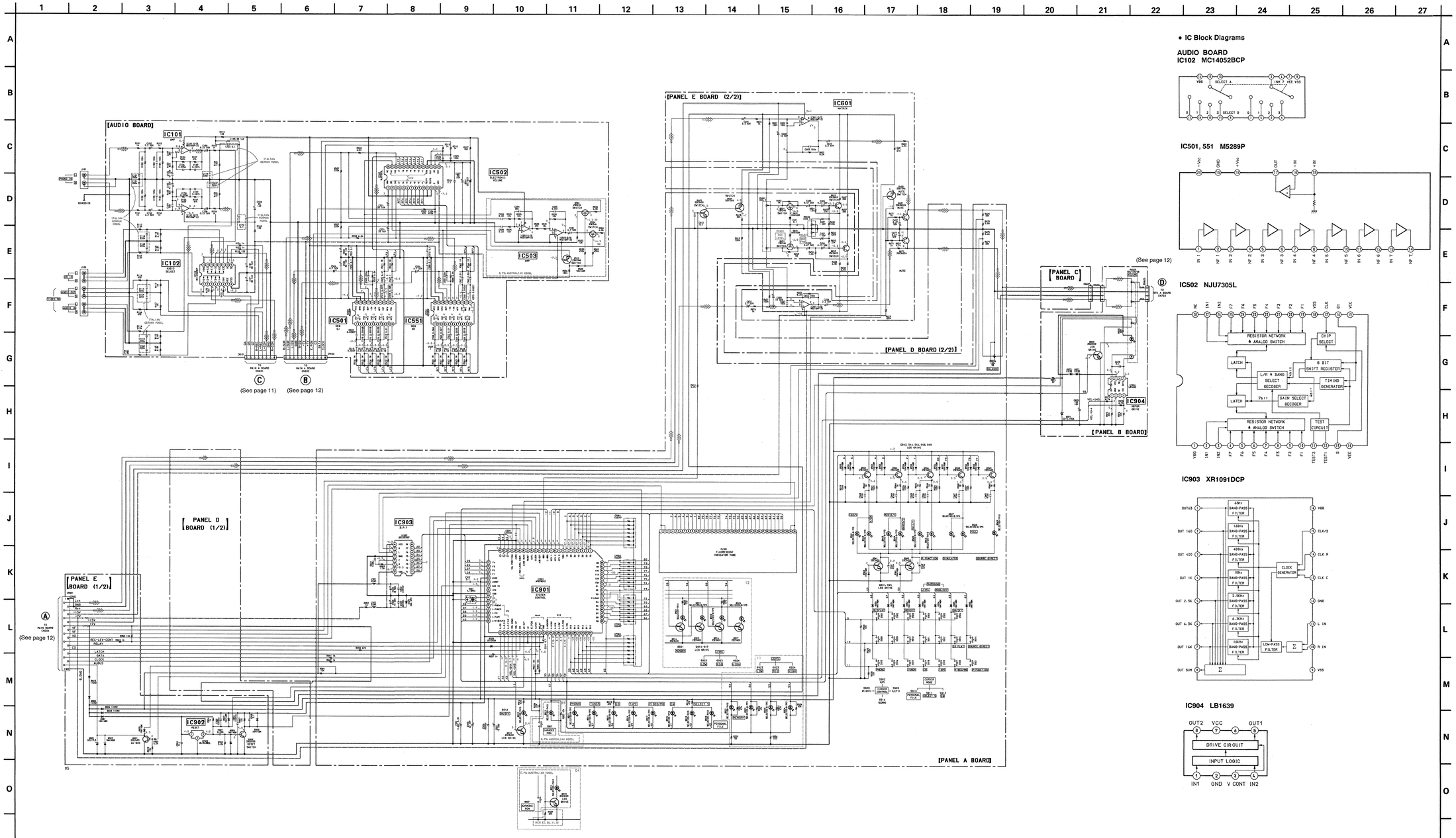
Note

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.

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

- : B + Line.
- : B − Line.
- : panel designation.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path. : PHONO

3-4. PANEL/AUDIO SECTION SCHEMATIC DIAGRAM



• IC Block Diagrams

AUDIO BOARD
IC102 MC14052BCP

IC501, 551 M5289P

IC502 NJU7305L

IC903 XR1091DCP

IC904 LB1639

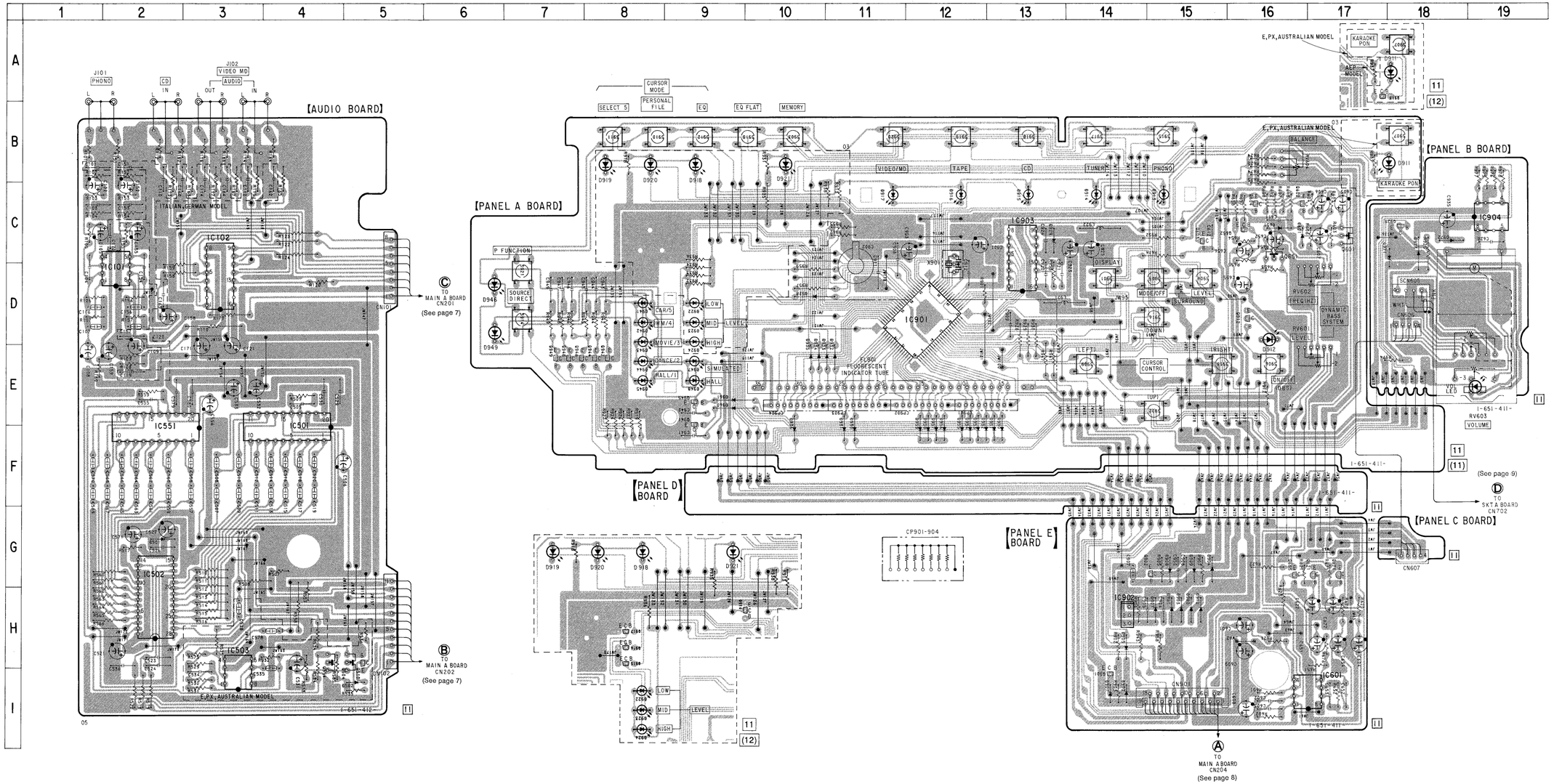
Note
- ○——○ : parts extracted from the component side.
- △ : internal component.

Note on Schematic Diagram:
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ═══ : B + Line.
- ▭▭▭ : B − Line.
- ▭ : panel designation.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⋙ : PHONO

3-5. PANEL/AUDIO SECTION PRINTED WIRING BOARDS • See page 24 for Semiconductor Lead Layouts.

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D501	G-2	D960	E-9
D502	I-5	D961	E-9
D601	C-16	D971	C-17
D651	C-16	D972	C-18
D901	I-14	D973	C-18
D902	I-14	D980	H-15
D903	H-15	D981	H-15
D904	G-15		
D905	H-14	IC101	C-2
D907	H-15	IC102	C-3
D908	G-15	IC501	E-4
D909	G-15	IC502	G-2
D910	H-15	IC503	H-3
D911	B-17	IC551	E-2
D912	D-16	IC601	I-16
D913	C-15	IC901	D-11
D914	C-14	IC902	H-14
D915	C-13	IC903	C-13
D916	C-12	IC904	C-19
D917	C-11		
D918	B-9	Q504	H-4
D919	B-8	Q510	H-5
D920	B-8	Q554	H-4
D921	B-10	Q601	C-17
D922	D-9	Q602	C-16
D923	D-9	Q603	C-15
D924	D-9	Q604	C-16
D928	D-10	Q605	G-16
D929	C-13	Q621	G-16
D930	E-11	Q651	C-16
D931	E-11	Q652	C-15
D932	E-11	Q671	G-17
D933	E-11	Q901	I-14
D934	E-10	Q902	G-14
D935	E-10	Q912	D-16
D936	E-10	Q913	A-18
D941	D-8	Q914	H-9
D942	D-8	Q915	H-8
D943	D-8	Q916	H-8
D944	E-8	Q917	H-8
D945	E-8	Q925	C-17
D946	D-6	Q941	E-9
D947	E-9	Q942	E-6
D948	E-9	Q944	E-8
D949	D-6	Q945	E-9
D950	E-12	Q946	E-7
D951	E-12	Q948	E-7
D952	E-12	Q949	E-7
D953	E-12		
D954	E-12		
D955	E-12		
D956	E-12		
D957	E-12		
D958	E-12		
D959	E-11		



3-6. IC PIN DESCRIPTION

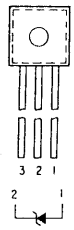
PANEL A BOARD IC901 μPD78042GF-057-3B9

Pin No.	Pin Name	I/O	Description
1	7G	O	FL digit 7
2	6G	O	FL digit 6
3	5G	O	FL digit 5
4	4G	O	FL digit 4
5	3G	O	FL digit 3
6	2G	O	FL digit 2
7	1G	O	FL digit 1
8	VDD	–	VDD
9	KEY 3	I	KEY SCAN INPUT 3
10	KEY 2	I	KEY SCAN INPUT 2
11	KEY 1	I	KEY SCAN INPUT 1
12	L DBS	O	LED (DBS)
13	DBS	O	DBS control
14	AUB OUT	O	AU BUS OUTPUT
15	CLOCK	O	serial CLOCK line (NJU7305)
16	DATA	O	serial DATA line (NJU7305)
17	$\overline{\text{RESET}}$	I	RESET
18	LINE MUTE	O	(open-drain) LINE MUTE OUTPUT (Act. "H")
19	REC LEVEL CONT.	O	(open-drain) REC level control (EQ high → "L")
20	AVSS	–	GND
21	VOL POSITION	I	volume position
22	F7	I	frequency 7 for speana
23	F6	I	frequency 6 for speana
24	F5	I	frequency 5 for speana
25	F4	I	frequency 4 for speana
26	F3	I	frequency 3 for speana
27	F2	I	frequency 2 for speana
28	F1	I	frequency 1 for speana
29	AVDD	I	VDD
30	AVREF	I	VDD (A/D reference)
31	AUB IN	I	AU BUS IN
32	XT2	–	N.C
33	VSS	–	GND
34	X1	I	crystal connection terminal
35	X2	O	system clock oscillation terminal
36	L-PHONO	O	LED (PHONO)
37	L-TUNER	O	LED (TUNER)
38	L-CD	O	LED (CD)
39	L-TAPE	O	LED (TAPE)
40	L-VIDEO/CD	O	LED (VIDEO)

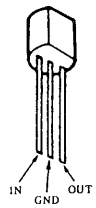
Pin No.	Pin Name	I/O	Description
41	L-EQ	O	LED (EQ)
42	L-S.5	O	LED (SELECT5)
43	L-P.FILE	O	LED (P.FILE)
44	VOL DOWN	O	VOLUME DOWN OUTPUT
45	VOL UP	O	VOLUME UP OUTPUT
46	CS	O	CS line (NJU7305)
47	AC OUT	I	AC OUT
48	IC	–	N.C (Vss)
49	K.PON	I	(open-drain) K.PON
50	LATCH	O	(open-drain) LATCH (4094)
51	RELAY	I	(open-drain) RELAY input
52	VDD	–	VDD
53	L-MEMORY	O	LED (MEMORY)
54	L-HIGH	O	LED (HIGH)
55	L-MID	O	LED (MID)
56	L-LOW	O	LED (LOW)
57	L-K.PON	O	LED (karaoke pon)
58	L-VOL	O	LED (volume)
59	S15	O	FL segment 15
60	S14	O	FL segment 14
61	S13	O	FL segment 13
62	S12	O	FL segment 12 (key scan output 7)
63	S11	O	FL segment 11 (key scan output 6)
64	S10	O	FL segment 10 (key scan output 5)
65	S9	O	FL segment 9 (key scan output 4)
66	S8	O	FL segment 8 (key scan output 3)
67	S7	O	FL segment 7 (key scan output 2)
68	S6	O	FL segment 6 (key scan output 1)
69	S5	O	FL segment 5
70	S4	O	FL segment 4
71	V-LOAD	I	POWER SUPPLY FOR PULL DOWN REGISTER
72	S3	O	FL segment 3
73	S2	O	FL segment 2
74	S1	O	FL segment 1
75	13G	O	FL digit 13
76	12G	O	FL digit 12
77	11G	O	FL digit 11
78	10G	O	FL digit 10
79	9G	O	FL digit 9
80	8G	O	FL digit 8

• Semiconductor Lead Layouts

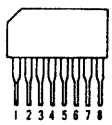
LM35DZ



M51943BSL



NJM2068L-D
μPC1237HA



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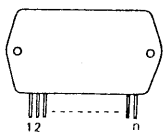
STK-401-090



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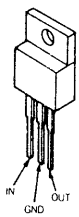

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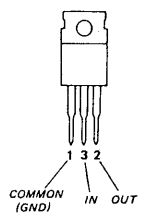

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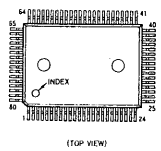

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DTC124ES
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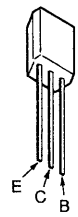
2SC3622A-LK



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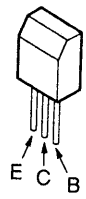

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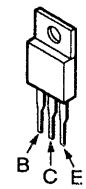

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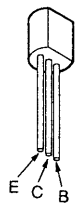

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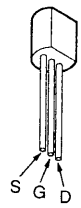

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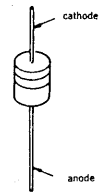
UZ-4.7BSA
11ES2



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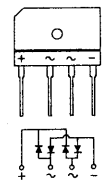
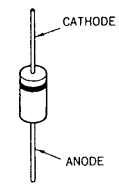
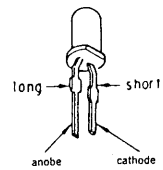


UZL-6L3
UZL-6M2
UZL-7L3
UZP-6.2B
UZ-7.5BSC
1N4148M
1S1585
10E2N



SEL2210S
SEL2210S-CD



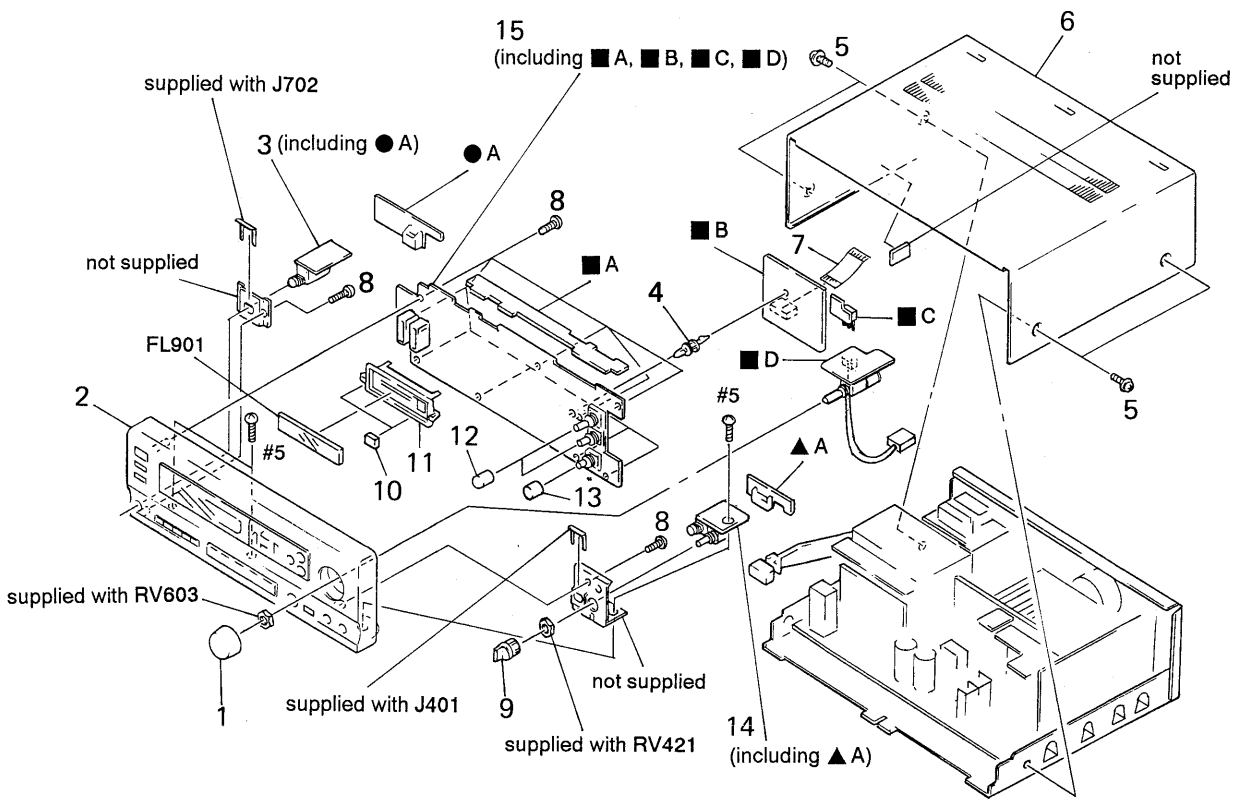
SECTION 4
EXPLODED VIEWS

NOTE:

- -XX and -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
- Abbreviation
  AU: Australian G: German EA: Saudi Arabia EE: East European IT: Italian MX: Mexican
  MY: Malaysia SP: Singapore E2 model: 120V AC E3 model: 240V AC E4 model: 120-240V AC
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

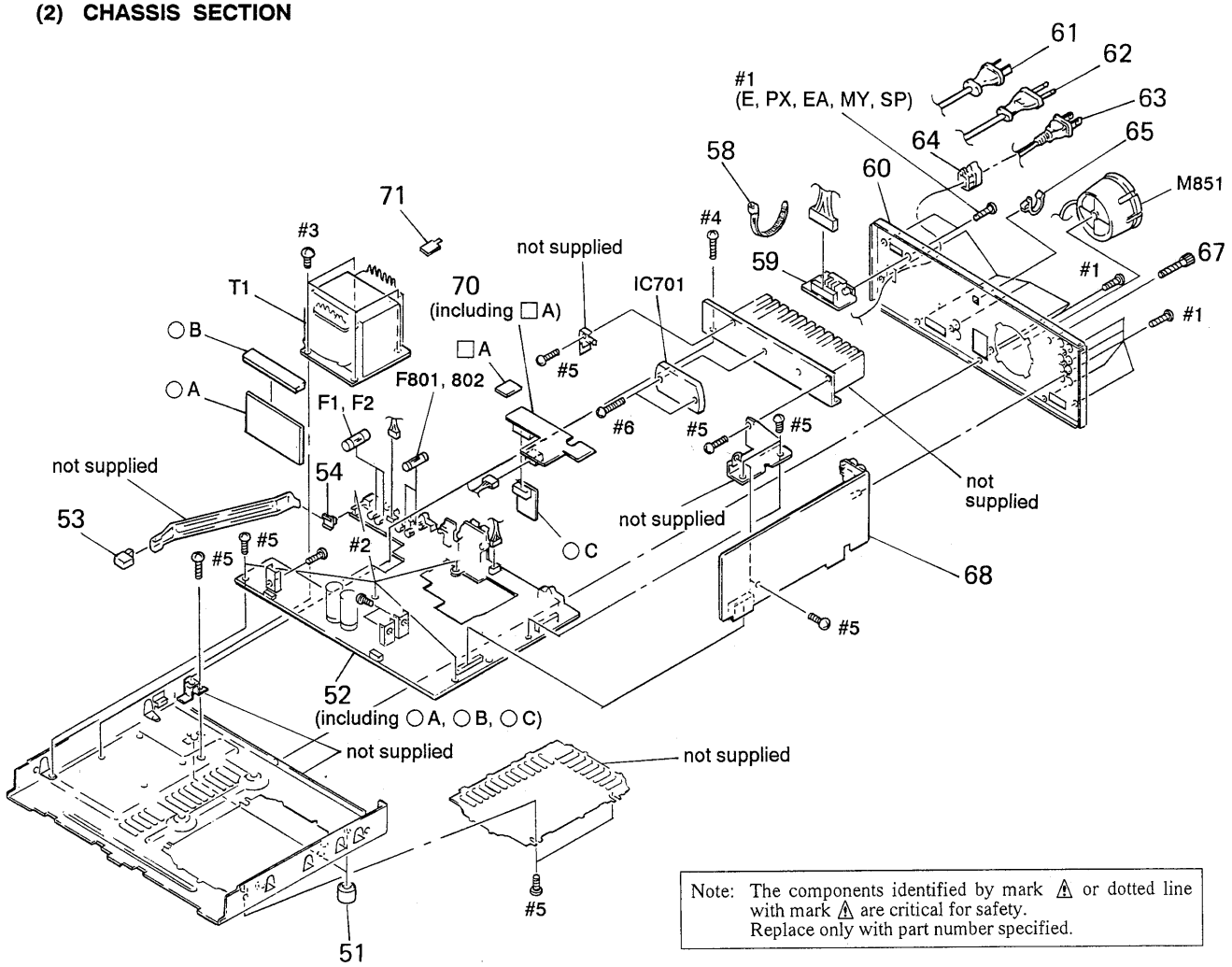
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4944-655-1	KNOB (VOL) ASSY	
2	X-4944-651-1	PANEL ASSY, FRONT (AEP, G, EE, IT, CIS)	
2	X-4944-657-1	PANEL ASSY, FRONT (AU, E2, MX, PX, E4)	
2	X-4944-658-1	PANEL ASSY, FRONT (EA, E3, MY, SP)	
3	1-651-414-11	HP BOARD	
4	4-943-687-01	HOLDER, PC BOARD	
5	3-363-099-01	SCREW (CASE 3 TP2)	
6	4-949-912-71	CASE (AEP, G, EE, IT, CIS)	
6	4-949-912-91	CASE (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
7	1-765-151-11	WIRE (FLAT TYPE) (19 CORE)	
8	4-951-620-01	SCREW (2.6X8), +BVTP	
9	4-950-652-01	KNOB (DIA. 12), ROUND (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
* 10	4-921-941-21	CUSHION (FL)	
* 11	4-923-103-01	HOLDER, FL TUBE	
12	4-955-744-21	KNOB (BA)	
13	3-349-039-11	KNOB (VOL)	
* 14	1-651-413-11	MIC BOARD (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
* 15	A-4369-456-A	PANEL BOARD, COMPLETE (AEP, G, EE, IT, CIS)	
* 15	A-4369-467-A	PANEL BOARD, COMPLETE (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
FL901	1-517-266-21	INDICATOR TUBE, FLUORESCENT	

(2) CHASSIS SECTION



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

Ref. No.	Part No.	Description	Remark
51	4-931-169-01	FOOT	
* 52	A-4369-454-A	MAIN BOARD, COMPLETE (AEP, EE, CIS)	
* 52	A-4369-461-A	MAIN BOARD, COMPLETE (G, IT)	
* 52	A-4369-464-A	MAIN BOARD, COMPLETE (EA, E2, E3, MY, PX, SP, E4)	
* 52	A-4369-481-A	MAIN BOARD, COMPLETE (AU)	
* 52	A-4371-373-A	MAIN BOARD, COMPLETE (MX)	
53	4-964-965-01	BUTTON (POW)	
54	4-866-342-00	JOINT (B), KNOB	
58	4-953-346-01	CLAMP, LEAD (AEP, G, AU, EE, IT, MX, CIS)	
* 59	1-650-410-11	VS BOARD (E2, E3, PX, EA, MY, SP, E4)	
* 60	4-964-974-01	PANEL (B3120), BACK (AEP, EE, IT, CIS)	
* 60	4-964-974-11	PANEL (B3120), BACK (AEP)	
* 60	4-964-974-31	PANEL (B3120), BACK (G)	
* 60	4-964-974-41	PANEL (B3120), BACK (EA, E2, E3, PX, E4)	
* 60	4-964-974-51	PANEL (B3120), BACK (MY, SP)	
* 60	4-964-974-61	PANEL (B3120), BACK (AU)	
* 60	4-964-974-71	PANEL (B3120), BACK (MX)	
⚠61	1-751-355-11	CORD, POWER (AU)	
⚠62	1-575-654-11	CORD, POWER (AEP, G, EA, EE, IT, MY, SP, CIS)	
⚠63	1-575-656-11	CORD, POWER (E2, E3, E4, MX, PX)	
* 64	3-703-244-00	BUSHING (2104), CORD (AEP, G, AU, EA, EE, IT, MY, SP, CIS)	
* 64	3-703-571-11	BUSHING (S) (4516), CORD (E2, E3, MX, PX, E4)	
* 65	4-949-235-01	HOOK	

Ref. No.	Part No.	Description	Remark
67	4-947-010-01	SCREW, FEEDER FIXED	
* 68	A-4369-457-A	AUDIO BOARD, COMPLETE (AEP, EE, CIS)	
* 68	A-4369-463-A	AUDIO BOARD, COMPLETE (G, IT)	
* 68	A-4369-468-A	AUDIO BOARD, COMPLETE (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
* 70	A-4369-455-A	STK BOARD, COMPLETE (AEP, EE, CIS)	
* 70	A-4369-462-A	STK BOARD, COMPLETE (G, IT)	
* 70	A-4369-465-A	STK BOARD, COMPLETE (AU, EA, E2, E3, MY, PX, SP, E4)	
* 70	A-4371-374-A	STK BOARD, COMPLETE (MX)	
* 71	1-652-079-11	TS BOARD (AU)	
⚠F1	1-532-259-00	FUSE, TIME-LAG (T1.6A)	
⚠F2	1-532-259-00	FUSE, TIME-LAG (T1.6A) (E2, E3, E4, PX, MY, SP)	
⚠F801	1-532-203-00	FUSE, TIME-LAG (T2A)	
⚠F802	1-532-203-00	FUSE, TIME-LAG (T2A)	
M851	X-4942-029-1	CASE ASSY, FAN (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
⚠T1	1-423-529-11	TRANSFORMER, POWER (AEP, G, EE, IT, CIS)	
⚠T1	1-423-530-11	TRANSFORMER, POWER (AU, EA, E2, E3, MY, PX, SP, E4)	
⚠T1	1-426-781-11	TRANSFORMER, POWER (MX)	
IC701	8-749-922-94	IC STK-401-080 (AEP, G, EE, IT. MX, CIS)	
IC701	8-749-922-95	IC STK-401-090 (AU, EA, E2, E3, MY, PX, SP, E4)	

SECTION 5
ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  AU: Australian G: German EA: Saudi Arabia EE: East European IT: Italian MX: Mexican
  MY: Malaysia SP: Singapore E2 model: 120V AC E3 model: 240V AC E4 model: 120-240V AC
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA . . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. . uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

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

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

Ref. No.	Part No.	Description			Remark
*	A-4369-457-A	AUDIO BOARD, COMPLETE (AEP, EE, CIS)			
		**********			
*	A-4369-463-A	AUDIO BOARD, COMPLETE (G, IT)			
		**********			
*	A-4369-468-A	AUDIO BOARD, COMPLETE (AU, EA, E2, E3, MX, MY, PX, SP, E4)			
		**********			
		< CAPACITOR >			
C101	1-162-288-31	CERAMIC	330PF	10%	50V (G, IT)
C102	1-126-161-11	ELECT	2.2uF	20%	50V
C103	1-162-282-31	CERAMIC	100PF	10%	50V
C104	1-162-219-31	CERAMIC	68PF	5%	50V
C105	1-124-910-11	ELECT	47uF	20%	50V
C106	1-130-480-00	MYLAR	0.0056uF	5%	50V
C107	1-106-347-00	MYLAR	1500PF	5%	200V
C108	1-124-464-11	ELECT	0.22uF	20%	50V
C109	1-104-792-51	ELECT	33uF	20%	16V
C110	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C112	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C114	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C119	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C121	1-104-792-51	ELECT	33uF	20%	16V
C151	1-162-288-31	CERAMIC	330PF	10%	50V (G, IT)
C152	1-126-161-11	ELECT	2.2uF	20%	50V
C153	1-162-282-31	CERAMIC	100PF	10%	50V
C154	1-162-219-31	CERAMIC	68PF	5%	50V
C155	1-124-910-11	ELECT	47uF	20%	50V
C156	1-130-480-00	MYLAR	0.0056uF	5%	50V
C157	1-106-347-00	MYLAR	1500PF	5%	200V
C158	1-124-464-11	ELECT	0.22uF	20%	50V
C159	1-104-792-51	ELECT	33uF	20%	16V
C160	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C162	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C164	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C169	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C171	1-104-792-51	ELECT	33uF	20%	16V
C505	1-162-286-31	CERAMIC	220PF	10%	50V
C506	1-126-163-11	ELECT	4.7uF	20%	50V
C507	1-136-177-00	FILM	1uF	5%	50V
C508	1-136-163-00	FILM	0.068uF	5%	50V
C509	1-136-173-00	FILM	0.47uF	5%	50V
C510	1-136-158-00	FILM	0.027uF	5%	50V
C511	1-136-168-00	FILM	0.18uF	5%	50V
C512	1-136-153-00	FILM	0.01uF	5%	50V
C513	1-136-163-00	FILM	0.068uF	5%	50V
C514	1-130-478-00	MYLAR	0.0039uF	5%	50V
C515	1-136-159-00	FILM	0.033uF	5%	50V
C516	1-130-474-00	MYLAR	0.0018uF	5%	50V
C517	1-136-154-00	FILM	0.012uF	5%	50V
C518	1-130-469-00	MYLAR	680PF	5%	50V
C519	1-106-359-00	MYLAR	4700PF	5%	200V
C520	1-110-340-11	MYLAR	270PF	5%	50V
C521	1-104-792-51	ELECT	33uF	20%	16V
C523	1-162-282-31	CERAMIC	100PF	10%	50V
C524	1-162-282-31	CERAMIC	100PF	10%	50V
C526	1-164-159-11	CERAMIC	0.1uF		50V
C527	1-104-792-51	ELECT	33uF	20%	16V
C528	1-136-169-00	FILM	0.22uF	5%	50V (AU, EA, E2, E3, MX, MY, PX, SP, E4)
C529	1-164-159-11	CERAMIC	0.1uF		50V
C530	1-164-159-11	CERAMIC	0.1uF		50V
C531	1-126-163-11	ELECT	4.7uF	20%	50V (AU, EA, E2, E3, MX, MY, PX, SP, E4)
C532	1-104-792-51	ELECT	33uF	20%	16V
C533	1-104-792-51	ELECT	33uF	20%	16V
C534	1-162-219-31	CERAMIC	68PF	5%	50V (AU, EA, E2, E3, MX, MY, PX, SP, E4)
C535	1-106-343-00	MYLAR	1000PF	5%	200V (AU, EA, E2, E3, MX, MY, PX, SP, E4)
C536	1-162-290-31	CERAMIC	470PF	10%	50V
C555	1-162-286-31	CERAMIC	220PF	10%	50V
C556	1-126-163-11	ELECT	4.7uF	20%	50V
C557	1-136-177-00	FILM	1uF	5%	50V
C558	1-136-163-00	FILM	0.068uF	5%	50V
C559	1-136-173-00	FILM	0.47uF	5%	50V
C560	1-136-158-00	FILM	0.027uF	5%	50V
C561	1-136-168-00	FILM	0.18uF	5%	50V
C562	1-136-153-00	FILM	0.01uF	5%	50V

AUDIO

Ref. No.	Part No.	Description			Remark
C563	1-136-163-00	FILM	0.068uF	5%	50V
C564	1-130-478-00	MYLAR	0.0039uF	5%	50V
C565	1-136-159-00	FILM	0.033uF	5%	50V
C566	1-130-474-00	MYLAR	0.0018uF	5%	50V
C567	1-136-154-00	FILM	0.012uF	5%	50V
C568	1-130-469-00	MYLAR	680PF	5%	50V
C569	1-106-359-00	MYLAR	4700PF	5%	200V
C570	1-110-340-11	MYLAR	270PF	5%	50V
C571	1-104-792-51	ELECT	33uF	20%	16V
C578	1-136-169-00	FILM	0.22uF	5%	50V
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)		
C579	1-164-159-11	CERAMIC	0.1uF		50V
C580	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN101	1-691-178-11	CONNECTOR (BOARD TO BOARD) 8P			
CN102	1-691-181-11	CONNECTOR (BOARD TO BOARD) 11P			
		< DIODE >			
D501	8-719-000-54	DIODE	UZL-6L3		
D502	8-719-987-63	DIODE	1N4148M		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)		
		< IC >			
IC101	8-759-636-74	IC	M5218AP-22		
IC102	8-759-000-48	IC	MC14052BCP		
IC501	8-759-633-78	IC	M5289P		
IC502	8-759-081-01	IC	NJU7305L		
IC503	8-759-636-74	IC	M5218AP-22		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)		
IC551	8-759-633-78	IC	M5289P		
		< JACK >			
J101	1-565-352-11	JACK, PIN 2P (PHONO)			
J102	1-565-320-61	JACK, PIN 6P (CD/VIDEO MD)			
		< TRANSISTOR >			
Q504	8-729-224-62	TRANSISTOR	2SK246-GR		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)		
Q510	8-729-900-63	TRANSISTOR	DTA124ES		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)		
Q554	8-729-224-62	TRANSISTOR	2SK246-GR		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)		
		< RESISTOR >			
R101	1-249-417-11	CARBON	1K	5%	1/4W F
R102	1-249-441-11	CARBON	100K	5%	1/4W
R103	1-249-417-11	CARBON	1K	5%	1/4W F
R104	1-249-441-11	CARBON	100K	5%	1/4W
R105	1-249-416-11	CARBON	820	5%	1/4W F
R106	1-247-897-11	CARBON	560K	5%	1/4W
R107	1-249-437-11	CARBON	47K	5%	1/4W
R108	1-249-417-11	CARBON	1K	5%	1/4W F
R109	1-249-441-11	CARBON	100K	5%	1/4W
R110	1-247-807-31	CARBON	100	5%	1/4W
R112	1-249-423-11	CARBON	3.3K	5%	1/4W F
R113	1-249-427-11	CARBON	6.8K	5%	1/4W F
R114	1-249-423-11	CARBON	3.3K	5%	1/4W F
R115	1-249-427-11	CARBON	6.8K	5%	1/4W F
R116	1-249-413-11	CARBON	470	5%	1/4W F
R117	1-247-903-00	CARBON	1M	5%	1/4W
R120	1-247-807-31	CARBON	100	5%	1/4W
R122	1-249-417-11	CARBON	1K	5%	1/4W F
R123	1-249-417-11	CARBON	1K	5%	1/4W F
R124	1-249-417-11	CARBON	1K	5%	1/4W F
R151	1-249-417-11	CARBON	1K	5%	1/4W F
R152	1-249-441-11	CARBON	100K	5%	1/4W
R153	1-249-417-11	CARBON	1K	5%	1/4W F
R154	1-249-441-11	CARBON	100K	5%	1/4W
R155	1-249-416-11	CARBON	820	5%	1/4W F
R156	1-247-897-11	CARBON	560K	5%	1/4W
R157	1-249-437-11	CARBON	47K	5%	1/4W
R158	1-249-417-11	CARBON	1K	5%	1/4W F
R159	1-249-441-11	CARBON	100K	5%	1/4W
R160	1-247-807-31	CARBON	100	5%	1/4W
R162	1-249-423-11	CARBON	3.3K	5%	1/4W F
R163	1-249-427-11	CARBON	6.8K	5%	1/4W F
R164	1-249-423-11	CARBON	3.3K	5%	1/4W F
R165	1-249-427-11	CARBON	6.8K	5%	1/4W F
R166	1-249-413-11	CARBON	470	5%	1/4W F
R167	1-247-903-00	CARBON	1M	5%	1/4W
R170	1-247-807-31	CARBON	100	5%	1/4W
R507	1-247-887-00	CARBON	220K	5%	1/4W
R508	1-249-427-11	CARBON	6.8K	5%	1/4W F
R509	1-249-427-11	CARBON	6.8K	5%	1/4W F
R510	1-247-903-00	CARBON	1M	5%	1/4W
R511	1-247-903-00	CARBON	1M	5%	1/4W
R512	1-247-903-00	CARBON	1M	5%	1/4W
R513	1-247-903-00	CARBON	1M	5%	1/4W
R514	1-247-903-00	CARBON	1M	5%	1/4W
R515	1-247-903-00	CARBON	1M	5%	1/4W
R516	1-247-903-00	CARBON	1M	5%	1/4W
R517	1-249-408-11	CARBON	180	5%	1/4W F
R518	1-249-417-11	CARBON	1K	5%	1/4W F
R519	1-249-417-11	CARBON	1K	5%	1/4W F
R520	1-249-413-11	CARBON	470	5%	1/4W F

Ref. No.	Part No.	Description	Remark
R525	1-249-429-11	CARBON 10K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R529	1-249-429-11	CARBON 10K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R530	1-249-413-11	CARBON 470 5% 1/4W F (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R531	1-249-429-11	CARBON 10K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R532	1-249-429-11	CARBON 10K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R533	1-249-429-11	CARBON 10K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R534	1-249-427-11	CARBON 6.8K 5% 1/4W F (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R535	1-247-895-00	CARBON 470K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R536	1-249-441-11	CARBON 100K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R557	1-247-887-00	CARBON 220K 5% 1/4W	
R558	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R559	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R560	1-247-903-00	CARBON 1M 5% 1/4W	
R561	1-247-903-00	CARBON 1M 5% 1/4W	
R562	1-247-903-00	CARBON 1M 5% 1/4W	
R563	1-247-903-00	CARBON 1M 5% 1/4W	
R564	1-247-903-00	CARBON 1M 5% 1/4W	
R565	1-247-903-00	CARBON 1M 5% 1/4W	
R566	1-247-903-00	CARBON 1M 5% 1/4W	
R575	1-249-429-11	CARBON 10K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R584	1-249-427-11	CARBON 6.8K 5% 1/4W F (AU, EA, E2, E3, MX, MY, PX, SP, E4)	
R585	1-247-895-00	CARBON 470K 5% 1/4W (AU, EA, E2, E3, MX, MY, PX, SP, E4)	

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Ref. No.	Part No.	Description	Remark
*	1-651-414-11	HP BOARD	
		********	
		HP BOARD (A)	
		**********	
		< CONNECTOR >	
* CN708	1-569-500-11	PIN, CONNECTOR 5P	
		HP BOARD (B)	
		**********	
		< JACK >	
J702	1-507-854-00	JACK, PHONE (HEADPHONES)	
		< RESISTOR >	
R725	1-247-749-11	CARBON 560 5% 1/2W	
R775	1-247-749-11	CARBON 560 5% 1/2W	

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*	A-4369-454-A	MAIN BOARD, COMPLETE (AEP, EE, CIS)			
		**********			
*	A-4369-461-A	MAIN BOARD, COMPLETE (G, IT)			
		**********			
*	A-4369-464-A	MAIN BOARD, COMPLETE (EA, E2, E3, MY, PX, SP, E4)			
		**********			
*	A-4369-481-A	MAIN BOARD, COMPLETE (AU)			
		**********			
*	A-4371-373-A	MAIN BOARD, COMPLETE (MX)			
		**********			
	1-533-293-11	FUSE HOLDER			
*	3-309-144-21	HEAT SINK			
*	4-941-237-01	HEAT SINK			
*	4-942-204-01	PLATE, GROUND			
	7-682-547-09	SCREW +BVTT 3X6 (S)			
		MAIN BOARD (A)			
		**********			
		< CAPACITOR >			
⚠C1	1-161-744-51	CERAMIC	0.01uF		400V
C201	1-162-286-31	CERAMIC	220PF	10%	50V
C202	1-126-059-11	ELECT	10uF	20%	50V
C203	1-126-059-11	ELECT	10uF	20%	50V
C204	1-162-293-31	CERAMIC	820PF	10%	50V

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

MAIN (A)

Ref. No.	Part No.	Description			Remark
C205	1-162-207-31	CERAMIC	22PF	5%	50V
C207	1-164-159-11	CERAMIC	0.1uF		50V
C250	1-164-159-11	CERAMIC	0.1uF		50V
C251	1-162-286-31	CERAMIC	220PF	10%	50V
C254	1-162-293-31	CERAMIC	820PF	10%	50V
C255	1-162-207-31	CERAMIC	22PF	5%	50V
C708	1-136-163-00	FILM	0.068uF	5%	50V
C709	1-136-163-00	FILM	0.068uF	5%	50V
C710	1-124-587-11	ELECT	220uF	20%	6.3V
C711	1-124-587-11	ELECT	220uF	20%	6.3V
C712	1-124-994-11	ELECT	100uF	20%	10V
C713	1-136-163-00	FILM	0.068uF	5%	50V (G, IT)
C714	1-136-163-00	FILM	0.068uF	5%	50V (G, IT)
C730	1-124-791-11	ELECT	1.0uF	20%	100V
C731	1-124-791-11	ELECT	1.0uF	20%	100V
C758	1-136-163-00	FILM	0.068uF	5%	50V
C759	1-136-163-00	FILM	0.068uF	5%	50V
C763	1-136-163-00	FILM	0.068uF	5%	50V (G, IT)
C764	1-136-163-00	FILM	0.068uF	5%	50V (G, IT)
C801	1-126-138-11	ELECT	4700uF	20%	50V (AEP, G, EE, IT, MX, CIS)
C801	1-126-258-11	ELECT	4700uF	20%	56V (AU, EA, E2, E3, MY, PX, SP, E4)
C802	1-126-138-11	ELECT	4700uF	20%	50V (AEP, G, EE, IT, MX, CIS)
C802	1-126-258-11	ELECT	4700uF	20%	56V (AU, EA, E2, E3, MY, PX, SP, E4)
C803	1-124-910-11	ELECT	47uF	20%	50V
C804	1-124-910-11	ELECT	47uF	20%	50V
C807	1-126-059-11	ELECT	10uF	20%	50V
C808	1-126-059-11	ELECT	10uF	20%	50V
C809	1-136-165-00	FILM	0.1uF	5%	50V
C810	1-136-165-00	FILM	0.1uF	5%	50V
C818	1-136-161-00	FILM	0.047uF	5%	50V
C819	1-136-161-00	FILM	0.047uF	5%	50V
C823	1-126-059-11	ELECT	10uF	20%	50V
C824	1-126-696-11	ELECT	33uF	20%	35V
C825	1-126-059-11	ELECT	10uF	20%	50V
C852	1-164-159-11	CERAMIC	0.1uF		50V (AU, EA, E2, E3, MX, MY, PX, SP, E4)
C853	1-164-159-11	CERAMIC	0.1uF		50V (AU, EA, E2, E3, MX, MY, PX, SP, E4)
C854	1-136-169-00	FILM	0.22uF	5%	50V (AU, EA, E2, E3, MX, MY, PX, SP, E4)
C855	1-136-169-00	FILM	0.22uF	5%	50V (AU, EA, E2, E3, MX, MY, PX, SP, E4)
C856	1-126-059-11	ELECT	10uF	20%	50V (AU, EA, E2, E3, MX, MY, PX, SP, E4)

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN1	1-564-321-00	PIN, CONNECTOR 2P	
* CN2	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	(AEP, G, EE, IT, MX, CIS, AU)
* CN2	1-535-140-00	BASE POST 22MM (10MM PITCH) 3P	(EA, E2, E3, MY, PX, SP, E4)
CN201	1-691-165-11	PIN, CONNECTOR 8P	
CN202	1-691-168-11	PIN, CONNECTOR 11P	
* CN203	1-569-491-11	SOCKET, CONNECTOR 5P	(AU, EA, E2, E3, MX, MY, PX, SP, E4)
CN204	1-568-802-11	SOCKET, CONNECTOR 19P	
* CN206	1-566-858-41	SOCKET, CONNECTOR 11P	
* CN707	1-569-491-11	SOCKET, CONNECTOR 5P	
* CN801	1-566-859-11	SOCKET, CONNECTOR 15P	
CN852	1-564-505-11	PLUG, CONNECTOR 2P	(AU, EA, E2, E3, MX, MY, PX, SP, E4)
		< DIODE >	
D701	8-719-987-63	DIODE 1N4148M	
D702	8-719-987-63	DIODE 1N4148M	
D703	8-719-815-85	DIODE 1S1585	
D705	8-719-987-63	DIODE 1N4148M	
D802	8-719-010-55	DIODE UZ-7.5BSC	
D803	8-719-010-55	DIODE UZ-7.5BSC	
D804	8-719-010-55	DIODE UZ-7.5BSC	
D805	8-719-010-55	DIODE UZ-7.5BSC	
D813	8-719-987-63	DIODE 1N4148M	
D814	8-719-987-63	DIODE 1N4148M	
D822	8-719-934-22	DIODE HZS30-2L	
D823	8-719-014-74	DIODE UZP-6.2B	
D851	8-719-987-63	DIODE 1N4148M	(AU, EA, E2, E3, MX, MY, PX, SP, E4)
D852	8-719-987-63	DIODE 1N4148M	(AU, EA, E2, E3, MX, MY, PX, SP, E4)
		< FUSE >	
⚠F1	1-532-259-00	FUSE, TIME-LAG (T1.6A)	(E2, E3, E4, PX, MY, SP)
⚠F2	1-532-259-00	FUSE, TIME-LAG (T1.6A)	(E2, E3, E4, PX, MY, SP)
⚠F801	1-532-203-00	FUSE, TIME-LAG (T2A)	
⚠F802	1-532-203-00	FUSE, TIME-LAG (T2A)	
		< IC >	
IC201	8-759-000-48	IC MC14052BCP	
IC202	8-759-000-49	IC MC14066BCP	
IC203	8-759-000-49	IC MC14066BCP	
IC204	8-759-636-74	IC M5218AP-22	
IC205	8-759-000-49	IC MC14066BCP	
IC206	8-759-636-74	IC M5218AP-22	

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

Ref. No.	Part No.	Description	Remark
IC250	8-759-202-61	IC TC4094BP	
IC702	8-759-111-68	IC uPC1237HA	
IC801	8-759-071-48	IC TA7807S	
IC802	8-759-071-47	IC TA79007S	
IC851	8-759-729-03	IC NJM2903D	(AU, EA, E2, E3, MX, MY, PX, SP, E4)
		< JACK >	
* J701	1-569-130-11	JACK, PIN 2P (SURROUND SPEAKER)	
		< COIL >	
* L701	1-420-872-00	COIL, AIR CORE	
* L751	1-420-872-00	COIL, AIR CORE	
		< TRANSISTOR >	
Q250	8-729-900-36	TRANSISTOR DTC124ES	
Q251	8-729-900-36	TRANSISTOR DTC124ES	
Q252	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q253	8-729-900-63	TRANSISTOR DTA124ES	
Q254	8-729-900-36	TRANSISTOR DTC124ES	
Q255	8-729-900-36	TRANSISTOR DTC124ES	
Q256	8-729-900-63	TRANSISTOR DTA124ES	
Q257	8-729-900-63	TRANSISTOR DTA124ES	
Q258	8-729-900-63	TRANSISTOR DTA124ES	
Q259	8-729-900-63	TRANSISTOR DTA124ES	
Q260	8-729-900-36	TRANSISTOR DTC124ES	
Q261	8-729-900-63	TRANSISTOR DTA124ES	
Q701	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q702	8-729-900-63	TRANSISTOR DTA124ES	
Q751	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q801	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q851	8-729-140-93	TRANSISTOR 2SB733-34	(AU, EA, E2, E3, MX, MY, PX, SP, E4)
		< RESISTOR >	
R201	1-249-417-11	CARBON 1K 5% 1/4W	F
R202	1-249-417-11	CARBON 1K 5% 1/4W	F
R203	1-249-413-11	CARBON 470 5% 1/4W	F
R204	1-247-807-31	CARBON 100 5% 1/4W	
R205	1-249-426-11	CARBON 5.6K 5% 1/4W	
R206	1-249-437-11	CARBON 47K 5% 1/4W	
R207	1-249-435-11	CARBON 33K 5% 1/4W	(AU)
R207	1-249-437-11	CARBON 47K 5% 1/4W	(EA, E2, E3, MX, MY, PX, SP, E4)
R208	1-249-437-11	CARBON 47K 5% 1/4W	
R209	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R210	1-247-897-11	CARBON 560K 5% 1/4W	
R214	1-249-437-11	CARBON 47K 5% 1/4W	
R215	1-247-897-11	CARBON 560K 5% 1/4W	
R216	1-249-429-11	CARBON 10K 5% 1/4W	
R217	1-249-435-11	CARBON 33K 5% 1/4W	
R218	1-249-432-11	CARBON 18K 5% 1/4W	
R251	1-249-417-11	CARBON 1K 5% 1/4W	F
R252	1-249-417-11	CARBON 1K 5% 1/4W	F
R253	1-249-413-11	CARBON 470 5% 1/4W	F
R254	1-247-807-31	CARBON 100 5% 1/4W	
R255	1-249-426-11	CARBON 5.6K 5% 1/4W	
R256	1-249-437-11	CARBON 47K 5% 1/4W	
R257	1-249-435-11	CARBON 33K 5% 1/4W	(AU)
R257	1-249-437-11	CARBON 47K 5% 1/4W	(EA, E2, E3, MX, MY, PX, SP, E4)
R258	1-249-437-11	CARBON 47K 5% 1/4W	
R259	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R260	1-247-897-11	CARBON 560K 5% 1/4W	
R261	1-249-417-11	CARBON 1K 5% 1/4W	F
R262	1-249-417-11	CARBON 1K 5% 1/4W	F
R263	1-249-417-11	CARBON 1K 5% 1/4W	F
R264	1-249-437-11	CARBON 47K 5% 1/4W	
R265	1-247-897-11	CARBON 560K 5% 1/4W	
R266	1-249-429-11	CARBON 10K 5% 1/4W	
R270	1-249-413-11	CARBON 470 5% 1/4W	F
R271	1-249-413-11	CARBON 470 5% 1/4W	F
R272	1-249-413-11	CARBON 470 5% 1/4W	F
R273	1-249-429-11	CARBON 10K 5% 1/4W	
R274	1-249-429-11	CARBON 10K 5% 1/4W	
R275	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R276	1-249-433-11	CARBON 22K 5% 1/4W	
R277	1-249-433-11	CARBON 22K 5% 1/4W	
R278	1-249-433-11	CARBON 22K 5% 1/4W	
R279	1-249-413-11	CARBON 470 5% 1/4W	F
R280	1-249-433-11	CARBON 22K 5% 1/4W	
R281	1-249-433-11	CARBON 22K 5% 1/4W	
R282	1-249-433-11	CARBON 22K 5% 1/4W	
R283	1-249-417-11	CARBON 1K 5% 1/4W	F
R707	1-249-417-11	CARBON 1K 5% 1/4W	F
R708	1-249-430-11	CARBON 12K 5% 1/4W	
R709	1-249-441-11	CARBON 100K 5% 1/4W	
R711	1-247-727-11	CARBON 10 5% 1/2W	
R712	1-247-727-11	CARBON 10 5% 1/2W	
R713	1-249-438-11	CARBON 56K 5% 1/4W	
R714	1-249-429-11	CARBON 10K 5% 1/4W	
R715	1-249-441-11	CARBON 100K 5% 1/4W	
R716	1-249-417-11	CARBON 1K 5% 1/4W	F
R718	1-249-437-11	CARBON 47K 5% 1/4W	
R719	1-249-430-11	CARBON 12K 5% 1/4W	
R720	1-216-456-00	METAL OXIDE 820 5% 2W	F (AEP, G, EE, IT, MX, CIS)

MAIN (A) **MAIN (B)** **MAIN (C)** **MAIN (D)**

Ref. No.	Part No.	Description					Remark
R720	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F	
			(AU, EA, E2, E3, MY, PX, SP, E4)				
R721	1-249-391-11	CARBON	6.8	5%	1/4W		(G, IT)
R757	1-249-417-11	CARBON	1K	5%	1/4W	F	
R758	1-249-430-11	CARBON	12K	5%	1/4W		
R759	1-249-441-11	CARBON	100K	5%	1/4W		
R761	1-247-727-11	CARBON	10	5%	1/2W		
R762	1-247-727-11	CARBON	10	5%	1/2W		
R763	1-249-437-11	CARBON	47K	5%	1/4W		
R771	1-247-727-11	CARBON	10	5%	1/2W		(G, IT)
R801	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F	
R802	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F	
R805	1-247-761-11	CARBON	5.6K	5%	1/2W		
R806	1-249-421-11	CARBON	2.2K	5%	1/4W	F	
R851	1-247-807-31	CARBON	100	5%	1/4W		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R852	1-249-441-11	CARBON	100K	5%	1/4W		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R853	1-249-417-11	CARBON	1K	5%	1/4W	F	
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R854	1-249-426-11	CARBON	5.6K	5%	1/4W		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R855	1-249-438-11	CARBON	56K	5%	1/4W		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R856	1-249-417-11	CARBON	1K	5%	1/4W	F	
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R857	1-249-417-11	CARBON	1K	5%	1/4W	F	
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R858	1-249-417-11	CARBON	1K	5%	1/4W	F	
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R859	1-249-417-11	CARBON	1K	5%	1/4W	F	
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R860	1-247-730-11	CARBON	18	5%	1/2W		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
R861	1-249-389-11	CARBON	4.7	5%	1/4W	F	
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)				
		< RELAY >					
RY701	1-515-765-11	RELAY					
		< SWITCH >					
⚠S1	1-554-920-51	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)					
		< TERMINAL >					
TM701	1-537-240-11	TERMINAL BOARD (CHECKER PIN)					

Ref. No.	Part No.	Description				Remark
		MAIN BOARD (B)				
		**********				
		< CAPACITOR >				
C805	1-124-887-00	ELECT	3300uF	20%	16V	
C806	1-124-887-00	ELECT	3300uF	20%	16V	
C811	1-136-173-00	FILM	0.47uF	5%	50V	
C812	1-136-173-00	FILM	0.47uF	5%	50V	
C813	1-136-161-00	FILM	0.047uF	5%	50V	
C814	1-136-161-00	FILM	0.047uF	5%	50V	
C817	1-126-162-11	ELECT	3.3uF	20%	50V	
C822	1-124-920-11	ELECT	330uF	20%	63V	
		< DIODE >				
D801	8-719-302-38	DIODE	RBV-602-01			
D806	8-719-200-77	DIODE	10E2N			
D807	8-719-200-77	DIODE	10E2N			
D808	8-719-200-77	DIODE	10E2N			
D809	8-719-200-77	DIODE	10E2N			
D811	8-719-987-63	DIODE	1N4148M			
D812	8-719-987-63	DIODE	1N4148M			
D821	8-719-200-77	DIODE	10E2N			
		< IC LINK >				
⚠ICP801	1-532-843-21	LINK, IC				
⚠ICP802	1-532-843-21	LINK, IC				
		< RESISTOR >				
R803	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R804	1-249-428-11	CARBON	8.2K	5%	1/4W	F
⚠R807	1-212-934-00	FUSIBLE	1	5%	1/2W	F
		MAIN BOARD (C)				
		**********				
		MAIN BOARD (D)				
		**********				
		< CAPACITOR >				
C706	1-124-572-11	ELECT	100uF	20%	63V	
C707	1-124-572-11	ELECT	100uF	20%	63V	
		< CONNECTOR >				
* CN704	1-569-504-11	PIN, CONNECTOR 9P (AEP, G, EE, IT, CIS)				
* CN704	1-569-507-11	PIN, CONNECTOR 12P				
		(AU, EA, E2, E3, MX, MY, PX, SP, E4)				

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

MAIN (D) **MIC (A)** **MIC (B)** **PANEL (A)**

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
⚠R705	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R706	1-212-881-11	FUSIBLE	100	5%	1/4W F
R710	1-217-156-00	RES, METAL PLATE			0.22
R760	1-217-156-00	RES, METAL PLATE			0.22
**********					
*	1-651-413-11	MIC BOARD (AU, EA, E2, E3, MX, MY, PX, SP, E4)			
		*********			
		MIC BOARD (A)			
		**********			
		< CAPACITOR >			
C421	1-162-294-31	CERAMIC	0.001uF	10%	50V
C422	1-126-161-11	ELECT	2.2uF	5%	50V
C423	1-162-219-31	CERAMIC	68PF	5%	50V
C424	1-162-286-31	CERAMIC	220PF	10%	50V
C425	1-126-163-11	ELECT	4.7uF	20%	50V
C426	1-126-163-11	ELECT	4.7uF	20%	50V
C427	1-162-286-31	CERAMIC	220PF	10%	50V
C428	1-124-464-11	ELECT	0.22uF	20%	50V
C429	1-104-792-51	ELECT	33uF	20%	16V
C430	1-104-792-51	ELECT	33uF	20%	16V
C431	1-164-159-11	CERAMIC	0.1uF		50V
		< IC >			
IC421	8-759-184-02	IC NJM2068L-D			
		< JACK >			
J401	1-507-854-00	JACK, PHONE (MIC)			
		< RESISTOR >			
R421	1-249-441-11	CARBON	100K	5%	1/4W
R422	1-249-429-11	CARBON	10K	5%	1/4W
R423	1-249-423-11	CARBON	3.3K	5%	1/4W F
R424	1-249-440-11	CARBON	82K	5%	1/4W
R425	1-249-429-11	CARBON	10K	5%	1/4W
R426	1-249-427-11	CARBON	6.8K	5%	1/4W F
R427	1-249-440-11	CARBON	82K	5%	1/4W
R428	1-249-409-11	CARBON	220	5%	1/4W F
R429	1-249-429-11	CARBON	10K	5%	1/4W
R430	1-247-807-31	CARBON	100	5%	1/4W
R432	1-247-807-31	CARBON	100	5%	1/4W
R434	1-247-417-11	CARBON	1K	5%	1/4W
R443	1-247-417-11	CARBON	1K	5%	1/4W

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV421	1-223-334-11	RES, VAR, CARBON 50K (MIC LEVEL)			
		MIC BOARD (B)			
		**********			
		< CONNECTOR >			
* CN401	1-569-500-11	PIN, CONNECTOR 5P			
**********					
*	A-4369-456-A	PANEL BOARD, COMPLETE (AEP, G, EE, IT, CIS)			
		**********			
*	A-4369-467-A	PANEL BOARD, COMPLETE (AU, EA, E2, E3, MX, MY, PX, SP, E4)			
		**********			
*	4-921-941-21	CUSHION (FL)			
*	4-923-103-01	HOLDER, FL TUBE			
		PANEL BOARD (A)			
		**********			
		< CAPACITOR >			
C605	1-126-300-11	ELECT	0.47uF	20%	50V
C606	1-124-250-00	ELECT	0.15uF	20%	50V
C607	1-126-301-11	ELECT	1uF	20%	50V
C611	1-164-159-11	CERAMIC	0.1uF		50V
C612	1-164-159-11	CERAMIC	0.1uF		50V
C655	1-124-465-00	ELECT	0.47uF	20%	50V
C656	1-124-250-00	ELECT	0.15uF	20%	50V
C657	1-126-301-11	ELECT	1uF	20%	50V
C901	1-126-059-11	ELECT	10uF	20%	50V
C902	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V
C903	1-126-049-11	ELECT	22uF	20%	25V
C906	1-161-379-00	CERAMIC	0.01uF	20%	25V
C909	1-161-494-00	CERAMIC	0.022uF		25V
C911	1-164-159-11	CERAMIC	0.1uF		50V
C912	1-164-159-11	CERAMIC	0.1uF		50V
C921	1-162-294-31	CERAMIC	0.001uF	10%	50V
C922	1-161-494-00	CERAMIC	0.022uF		25V
C923	1-126-059-11	ELECT	10uF	20%	50V
C924	1-161-494-00	CERAMIC	0.022uF		25V
C925	1-126-059-11	ELECT	10uF	20%	50V
C941	1-162-290-31	CERAMIC	470PF	10%	50V
C942	1-162-290-31	CERAMIC	470PF	10%	50V
C943	1-162-290-31	CERAMIC	470PF	10%	50V
C944	1-162-290-31	CERAMIC	470PF	10%	50V

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

PANEL (A)

Ref. No.	Part No.	Description			Remark
C945	1-162-290-31	CERAMIC	470PF	10%	50V
C946	1-162-290-31	CERAMIC	470PF	10%	50V
C947	1-162-290-31	CERAMIC	470PF	10%	50V
C949	1-162-290-31	CERAMIC	470PF	10%	50V
		< COMPOSITION CIRCUIT BLOCK >			
CP901	1-232-998-11	COMPOSITION CIRCUIT BLOCK			
CP902	1-232-998-11	COMPOSITION CIRCUIT BLOCK			
CP903	1-232-998-11	COMPOSITION CIRCUIT BLOCK			
CP904	1-232-998-11	COMPOSITION CIRCUIT BLOCK			
		< DIODE >			
D601	8-719-987-63	DIODE	1N4148M		
D651	8-719-987-63	DIODE	1N4148M		
D911	8-719-301-37	LED	SEL2210S-CD		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)		
D912	8-719-301-37	LED	SEL2210S-CD		
D913	8-719-301-39	LED	SEL2210S		
D914	8-719-301-39	LED	SEL2210S		
D915	8-719-301-39	LED	SEL2210S		
D916	8-719-301-39	LED	SEL2210S		
D917	8-719-301-39	LED	SEL2210S		
D918	8-719-301-37	LED	SEL2210S-CD		
D919	8-719-301-37	LED	SEL2210S-CD		
D920	8-719-301-37	LED	SEL2210S-CD		
D921	8-719-301-37	LED	SEL2210S-CD		
D922	8-719-301-39	LED	SEL2210S		
D923	8-719-301-39	LED	SEL2210S		
D924	8-719-301-39	LED	SEL2210S		
D928	8-719-815-85	DIODE	1S1585		
D929	8-719-000-60	DIODE	UZL-6M2		
D930	8-719-987-63	DIODE	1N4148M		
D931	8-719-987-63	DIODE	1N4148M		
D932	8-719-987-63	DIODE	1N4148M		
D933	8-719-987-63	DIODE	1N4148M		
D934	8-719-987-63	DIODE	1N4148M		
D935	8-719-987-63	DIODE	1N4148M		
D936	8-719-987-63	DIODE	1N4148M		
D941	8-719-301-39	LED	SEL2210S		
D942	8-719-301-39	LED	SEL2210S		
D943	8-719-301-39	LED	SEL2210S		
D944	8-719-301-39	LED	SEL2210S		
D945	8-719-301-39	LED	SEL2210S		
D946	8-719-301-37	LED	SEL2210S-CD		
D947	8-719-301-39	LED	SEL2210S		
D948	8-719-301-39	LED	SEL2210S		
D949	8-719-301-37	LED	SEL2210S-CD		
D950	8-719-987-63	DIODE	1N4148M		
D951	8-719-987-63	DIODE	1N4148M		

Ref. No.	Part No.	Description			Remark
D952	8-719-987-63	DIODE	1N4148M		
D953	8-719-987-63	DIODE	1N4148M		
D954	8-719-987-63	DIODE	1N4148M		
D955	8-719-987-63	DIODE	1N4148M		
D956	8-719-987-63	DIODE	1N4148M		
D957	8-719-987-63	DIODE	1N4148M		
D958	8-719-987-63	DIODE	1N4148M		
D959	8-719-987-63	DIODE	1N4148M		
D960	8-719-987-63	DIODE	1N4148M		
D961	8-719-987-63	DIODE	1N4148M		
		< FILTER >			
FL901	1-517-266-21	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC901	8-759-256-75	IC	uPD78042GF-057-3B9		
IC903	8-759-991-11	IC	XR1091DCP		
		< COIL >			
L921	1-408-121-00	INDUCTOR	22uH		
L922	1-408-121-00	INDUCTOR	22uH		
		< TRANSISTOR >			
Q601	8-729-224-62	TRANSISTOR	2SK246-GR		
Q602	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q603	8-729-900-36	TRANSISTOR	DTC124ES		
Q604	8-729-900-63	TRANSISTOR	DTA124ES		
Q651	8-729-224-62	TRANSISTOR	2SK246-GR		
Q652	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q912	8-729-900-36	TRANSISTOR	DTC124ES		
Q913	8-729-900-36	TRANSISTOR	DTC124ES		
			(AU, EA, E2, E3, MX, MY, PX, SP, E4)		
Q914	8-729-900-36	TRANSISTOR	DTC124ES		
Q915	8-729-900-36	TRANSISTOR	DTC124ES		
Q916	8-729-900-36	TRANSISTOR	DTC124ES		
Q917	8-729-900-36	TRANSISTOR	DTC124ES		
Q941	8-729-900-36	TRANSISTOR	DTC124ES		
Q942	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q944	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q945	8-729-900-36	TRANSISTOR	DTC124ES		
Q946	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q948	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q949	8-729-620-05	TRANSISTOR	2SC2603-EF		
		< RESISTOR >			
R603	1-247-903-00	CARBON	1M	5%	1/4W
R604	1-249-420-11	CARBON	1.8K	5%	1/4W F
R605	1-249-434-11	CARBON	27K	5%	1/4W

PANEL (A) **PANEL (B)**

Ref. No.	Part No.	Description				Remark
R606	1-247-881-00	CARBON	120K	5%	1/4W	
R607	1-249-412-11	CARBON	390	5%	1/4W	F
R608	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R612	1-249-441-11	CARBON	100K	5%	1/4W	
R613	1-249-435-11	CARBON	33K	5%	1/4W	
R614	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R624	1-249-435-11	CARBON	33K	5%	1/4W	
R625	1-249-426-11	CARBON	5.6K	5%	1/4W	
R653	1-247-903-00	CARBON	1M	5%	1/4W	
R654	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R655	1-249-434-11	CARBON	27K	5%	1/4W	
R656	1-247-881-00	CARBON	120K	5%	1/4W	
R657	1-249-412-11	CARBON	390	5%	1/4W	F
R658	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R674	1-249-435-11	CARBON	33K	5%	1/4W	
R675	1-249-426-11	CARBON	5.6K	5%	1/4W	
R901	1-249-429-11	CARBON	10K	5%	1/4W	
R912	1-249-413-11	CARBON	470	5%	1/4W	F
R913	1-249-413-11	CARBON	470	5%	1/4W	F
R918	1-249-413-11	CARBON	470	5%	1/4W	F
R919	1-249-441-11	CARBON	100K	5%	1/4W	
R921	1-249-441-11	CARBON	100K	5%	1/4W	
R924	1-249-441-11	CARBON	100K	5%	1/4W	
R926	1-249-441-11	CARBON	100K	5%	1/4W	
R927	1-249-441-11	CARBON	100K	5%	1/4W	
R928	1-249-429-11	CARBON	10K	5%	1/4W	
R929	1-249-429-11	CARBON	10K	5%	1/4W	
R930	1-249-429-11	CARBON	10K	5%	1/4W	
R931	1-249-437-11	CARBON	47K	5%	1/4W	
R932	1-249-437-11	CARBON	47K	5%	1/4W	
R933	1-249-437-11	CARBON	47K	5%	1/4W	
R934	1-249-437-11	CARBON	47K	5%	1/4W	
R935	1-249-409-11	CARBON	220	5%	1/4W	F(Suffix-11)
R935	1-249-413-11	CARBON	470	5%	1/4W	F(Suffix-12)
R936	1-249-409-11	CARBON	220	5%	1/4W	F(Suffix-11)
R936	1-249-413-11	CARBON	470	5%	1/4W	F(Suffix-12)
R937	1-249-437-11	CARBON	47K	5%	1/4W	
R938	1-249-433-11	CARBON	22K	5%	1/4W	
R941	1-249-417-11	CARBON	1K	5%	1/4W	F
R942	1-249-396-11	CARBON	18	5%	1/6W	F
R944	1-249-396-11	CARBON	18	5%	1/6W	F
R945	1-249-396-11	CARBON	18	5%	1/6W	F
R946	1-249-396-11	CARBON	18	5%	1/6W	F
R947	1-249-417-11	CARBON	1K	5%	1/4W	F
R948	1-249-396-11	CARBON	18	5%	1/6W	F
R949	1-249-396-11	CARBON	18	5%	1/6W	F
R952	1-249-393-11	CARBON	10	5%	1/4W	F
R953	1-249-419-11	CARBON	1.5K	5%	1/4W	F

Ref. No.	Part No.	Description				Remark
R955	1-249-429-11	CARBON	10K	5%	1/4W	
R957	1-249-417-11	CARBON	1K	5%	1/4W	F
R959	1-249-413-11	CARBON	470	5%	1/4W	F
R962	1-249-429-11	CARBON	10K	5%	1/4W	

< VARIABLE RESISTOR >

RV601	1-238-977-11	RES, VAR, CARBON 100K/100K (LEVEL)
RV602	1-238-977-11	RES, VAR, CARBON 100K/100K (FREQ(HZ))
RV604	1-223-669-11	RES, VAR, CARBON 100K (BALANCE)

< SWITCH >

S901	1-554-303-21	SWITCH, TACTILE (DISPLAY)
S902	1-554-303-21	SWITCH, TACTILE (CURSOR CONTROL(UP))
S903	1-554-303-21	SWITCH, TACTILE (MEMORY)
S904	1-554-303-21	SWITCH, TACTILE (LEVEL(SURROUND))
S905	1-554-303-21	SWITCH, TACTILE (MODE/OFF(SURROUND))
S906	1-554-303-21	SWITCH, TACTILE (ON/OFF)
S907	1-554-303-21	SWITCH, TACTILE (KARAOKE PON) (AU, EA, E2, E3, MX, MY, PX, SP, E4)
S908	1-554-303-21	SWITCH, TACTILE (CURSOR CONTROL(RIGHT))
S909	1-554-303-21	SWITCH, TACTILE (CURSOR CONTROL(LEFT))
S910	1-554-303-21	SWITCH, TACTILE (PERSONAL FILE(CURSOR MODE))
S911	1-554-303-21	SWITCH, TACTILE (SELECT 5(CURSOR MODE))
S912	1-554-303-21	SWITCH, TACTILE (EQ(CURSOR MODE))
S913	1-554-303-21	SWITCH, TACTILE (EQ FLAT)
S914	1-554-303-21	SWITCH, TACTILE (SOURCE DIRECT)
S915	1-554-303-21	SWITCH, TACTILE (PHONO)
S916	1-554-303-21	SWITCH, TACTILE (CURSOR CONTROL(DOWN))
S917	1-554-303-21	SWITCH, TACTILE (TUNER)
S918	1-554-303-21	SWITCH, TACTILE (CD)
S919	1-554-303-21	SWITCH, TACTILE (TAPE)
S920	1-554-303-21	SWITCH, TACTILE (VIDEO/MD)
S921	1-554-303-21	SWITCH, TACTILE (P FUNCTION)

< VIBRATOR >

X901	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)

PANEL BOARD (B)
****

< CAPACITOR >

C628	1-164-159-11	CERAMIC	0.1uF		50V
C935	1-124-994-11	ELECT	100uF	20%	10V

< CONNECTOR >

* CN606	1-568-450-11	HOUSING, CONNECTOR(PC BOARD) 4P

PANEL (B) PANEL (C) PANEL (D) PANEL (E)

Ref. No.	Part No.	Description				Remark
		< DIODE >				
D971	8-719-010-32	DIODE	UZ-4.7BSA			
D972	8-719-200-82	DIODE	11ES2			
D973	8-719-200-82	DIODE	11ES2			
		< IC >				
IC904	8-759-820-62	IC	LB1639			
		< TRANSISTOR >				
Q925	8-729-900-36	TRANSISTOR	DTC124ES			
		< RESISTOR >				
R925	1-249-415-11	CARBON	680	5%	1/4W	F
R974	1-249-397-11	CARBON	22	5%	1/4W	F
R975	1-249-433-11	CARBON	22K	5%	1/4W	
R976	1-249-433-11	CARBON	22K	5%	1/4W	
R977	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R978	1-249-425-11	CARBON	4.7K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV603	1-223-690-11	RES, VAR, CARBON 10K/100K/100K (VOLUME)				
		PANEL BOARD (C)				
		**********				
		< CONNECTOR >				
* CN607	1-568-453-11	PIN, CONNECTOR (PC BOARD) 4P				
		PANEL BOARD (D)				
		**********				
		PANEL BOARD (E)				
		**********				
		< CAPACITOR >				
C601	1-126-161-11	ELECT	2.2uF	20%	50V	
C602	1-162-282-31	CERAMIC	100PF	10%	50V	
C603	1-162-282-31	CERAMIC	100PF	10%	50V	
C604	1-126-161-11	ELECT	2.2uF	20%	50V	
C608	1-126-059-11	ELECT	10uF	20%	50V	
C609	1-126-059-11	ELECT	10uF	20%	50V	
C627	1-126-300-11	ELECT	0.47uF	20%	50V	
C651	1-126-161-11	ELECT	2.2uF	20%	50V	
C652	1-162-282-31	CERAMIC	100PF	10%	50V	
C653	1-162-282-31	CERAMIC	100PF	10%	50V	
C654	1-126-161-11	ELECT	2.2uF	20%	50V	
C677	1-126-300-11	ELECT	0.47uF	20%	50V	
C904	1-164-159-11	CERAMIC	0.1uF		50V	
C905	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C907	1-136-159-00	FILM	0.033uF	5%	50V	
C908	1-164-159-11	CERAMIC	0.1uF		50V	
C950	1-161-494-00	CERAMIC	0.022uF		25V	
		< CONNECTOR >				
CN901	1-568-802-11	SOCKET, CONNECTOR 19P				
		< DIODE >				
D901	8-719-000-81	DIODE	UZL-7L3			
D902	8-719-987-63	DIODE	1N4148M			
D903	8-719-200-82	DIODE	11ES2			
D904	8-719-200-82	DIODE	11ES2			
D905	8-719-987-63	DIODE	1N4148M			
D907	8-719-987-63	DIODE	1N4148M			
D908	8-719-987-63	DIODE	1N4148M			
D909	8-719-987-63	DIODE	1N4148M			
D910	8-719-200-82	DIODE	11ES2			
D980	8-719-200-82	DIODE	11ES2			
D981	8-719-987-63	DIODE	1N4148M			
		< IC >				
IC601	8-759-636-74	IC	M5218AP-22			
IC902	8-759-635-63	IC	M51943BSL			
		< TRANSISTOR >				
Q605	8-729-900-63	TRANSISTOR	DTA124ES			
Q621	8-729-141-26	TRANSISTOR	2SC3622A-LK			
Q671	8-729-141-26	TRANSISTOR	2SC3622A-LK			
Q901	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q902	8-729-620-05	TRANSISTOR	2SC2603-EF			
		< RESISTOR >				
R601	1-249-441-11	CARBON	100K	5%	1/4W	
R602	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R620	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R621	1-249-417-11	CARBON	1K	5%	1/4W	F
R622	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R623	1-249-441-11	CARBON	100K	5%	1/4W	
R626	1-249-417-11	CARBON	1K	5%	1/4W	F
R651	1-249-441-11	CARBON	100K	5%	1/4W	
R652	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R670	1-249-425-11	CARBON	4.7K	5%	1/4W	F

Ref. No.	Part No.	Description				Remark
R671	1-249-417-11	CARBON	1K	5%	1/4W	F
R676	1-249-417-11	CARBON	1K	5%	1/4W	F
R902	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R903	1-249-429-11	CARBON	10K	5%	1/4W	
R904	1-249-417-11	CARBON	1K	5%	1/4W	F
R905	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R907	1-249-429-11	CARBON	10K	5%	1/4W	
R943	1-249-417-11	CARBON	1K	5%	1/4W	F
R958	1-249-429-11	CARBON	10K	5%	1/4W	

****

* A-4369-455-A STK BOARD, COMPLETE (AEP, EE, CIS)
****

* A-4369-462-A STK BOARD, COMPLETE (G, IT)
****

* A-4369-465-A STK BOARD, COMPLETE
(AU, EA, E2, E3, MY, PX, SP, E4)
****

* A-4371-374-A STK BOARD, COMPLETE (MX)
****

STK BOARD (A)
****

< CAPACITOR >

C701	1-126-161-11	ELECT	2.2uF	20%	50V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-162-286-31	CERAMIC	220PF	10%	50V
C704	1-124-994-11	ELECT	100uF	20%	10V
C726	1-161-494-00	CERAMIC	0.022uF		25V (G, IT)
C751	1-126-161-11	ELECT	2.2uF	20%	50V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-162-286-31	CERAMIC	220PF	10%	50V
C754	1-124-994-11	ELECT	100uF	20%	10V

< CONNECTOR >

* CN702	1-564-518-11	PLUG, CONNECTOR 3P	
* CN703	1-569-495-11	SOCKET, CONNECTOR 9P	(AEP, G, EE, IT, CIS)
* CN703	1-569-498-11	SOCKET, CONNECTOR 12P	(AU, EA, E2, E3, MX, MY, PX, SP, E4)

< IC >

IC701	8-749-922-94	IC	STK-401-080 (AEP, G, EE, IT, MX, CIS)
IC701	8-749-922-95	IC	STK-401-090 (AU, EA, E2, E3, MY, PX, SP, E4)

< RESISTOR >

R701	1-249-417-11	CARBON	1K	5%	1/4W	F
R702	1-249-438-11	CARBON	56K	5%	1/4W	
R703	1-249-414-11	CARBON	560	5%	1/4W	F
R704	1-249-438-11	CARBON	56K	5%	1/4W	
R751	1-249-417-11	CARBON	1K	5%	1/4W	F
R752	1-249-438-11	CARBON	56K	5%	1/4W	
R753	1-249-414-11	CARBON	560	5%	1/4W	F
R754	1-249-438-11	CARBON	56K	5%	1/4W	

STK BOARD (B)
****

< CAPACITOR >

C858	1-161-379-00	CERAMIC	0.01uF	20%	25V (AU, EA, E2, E3, MX, MY, PX, SP, E4)

< IC >

IC852	8-759-947-34	IC	LM35DZ (AU, EA, E2, E3, MX, MY, PX, SP, E4)

< RESISTOR >

R862	1-247-807-31	CARBON	100	5%	1/4W	(AU, EA, E2, E3, MX, MY, PX, SP, E4)

****

* 1-652-079-11 TS BOARD (AU)
****

****

* 1-651-410-11 VS BOARD (EA, E2, E3, MY, PX, SP, E4)
****

< CONNECTOR >

* CN3 1-573-565-11 PIN, CONNECTOR 5P

< VOLTAGE SELECTOR >

⚠VS1 1-572-009-11 SELECTOR, VOLTAGE (VOLTAGE SELECTOR)
****

MISCELLANEOUS
****

7	1-765-151-11	WIRE (FLAT TYPE) (19 CORE)	
⚠61	1-751-355-11	CORD, POWER	(AU)
⚠62	1-575-654-11	CORD, POWER	(AEP, G, EA, EE, IT, MY, SP, CIS)
⚠63	1-575-656-11	CORD, POWER	(E2, E3, E4, MX, PX)
M851	X-4942-029-1	CASE ASSY, FAN	(AU, EA, E2, E3, MX, MY, PX, SP, E4)
⚠T1	1-423-529-11	TRANSFORMER, POWER	(AEP, G, EE, IT, CIS)
⚠T1	1-423-530-11	TRANSFORMER, POWER	(AU, EA, E2. E3, MY, PX, SP, E4)

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

Ref. No.	Part No.	Description	Remark
⚠T1	1-426-781-11	TRANSFORMER, POWER (MX)	

****

ACCESSORIES & PACKING MATERIALS
****

*	4-965-421-01	CUSHION	

****

****
HARDWARE LIST
****

#1	7-621-849-00	SCREW (BV/RING)	
#2	7-682-547-09	SCREW +BVTT 3X6 (S)	
#3	7-682-560-04	SCREW +BVTT 4X6 (S)	
#4	7-685-645-79	SCREW +BVTP 3X6 TYPE2	
#5	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#6	7-685-650-79	SCREW +BVTP 3X16 TYPE2	

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

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