

TA-EX70

SERVICE MANUAL

*AEP Model
UK Model
E Model*



TA-EX70 is the amplifier section in MHC-EX70AV.

Photo : E model

SPECIFICATIONS

(AEP, UK, Italian, German models)

DIN power output

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

Continuous RMS power output

FRONT:	65 W + 65 W (6 ohms, at 1 kHz, 10% THD)
CENTER:	35 W (6 ohms, at 1 kHz, 10% THD)
REAR:	23 W + 23 W (8 ohms, at 1 kHz, 10% THD)

Music power output

FRONT:	105 W + 105 W (6 ohms, at 1 kHz, 10% THD)
CENTER:	45 W (6 ohms, at 1 kHz, 10% THD)
REAR:	25 W + 25 W (8 ohms, at 1 kHz, 10% THD)

(E, Saudi Arabia, Hong Kong, Malaysia, Singapore, Thailand models)

Continuous RMS power output

FRONT SPEAKER:	60 W + 60 W (6 ohms at 1 kHz, 5% THD)
CENTER SPEAKER:	30 W (6 ohms at 1 kHz, 5% THD)
REAR SPEAKER:	20 W + 20 W (8 ohms at 1 kHz, 5% THD)

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

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

FRONT SPEAKER:
accepts speakers of 6 to 16 ohms

CENTER SPEAKER:
accepts speakers of 6 to 16 ohms

REAR SPEAKER:
accepts speakers of 8 to 16 ohms

Dimensions

Approx. 280 x 122.5 x 290 mm
(11 1/8 x 4 7/8 x 11 1/2 in) (w/h/d)
incl. projecting parts and controls

Mass

(AEP, UK, Italian, German models)
Approx. 6.3 kg
(13 lb 14 oz)

(E, Saudi Arabia, Hong Kong, Malaysia, Singapore, Thailand models)

Approx. 5.6 kg

General

Power requirements

(AEP, UK, Italian, German models)
220 – 230 V AC,
50/60 Hz

(Thailand model)

220 V AC, 50/60 Hz

(E, Saudi Arabia, Hong Kong, Malaysia, Singapore models)

110 – 120 V or
220 – 240 V AC,
50/60 Hz
Adjustable with the
voltage selector

Power consumption

210 W (system)

Design and specifications are subject to
change without notice.

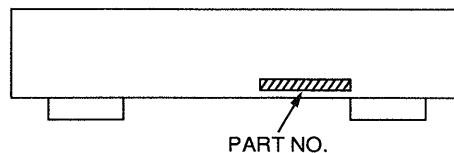
AV CENTER AMPLIFIER
SONY®

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
SECTION 1. GENERAL		3
SECTION 2. DISASSEMBLY		
2-1. Front Panel ASSY		4
2-2. Audio Board		4
SECTION 3. DIAGRAMS		
3-1. Circuit Boards Location		5
3-2. IC Pin Function		
• Panel Board IC501 M37471M4-S3		
(LED Drive, Mode Select)		6
3-3. Printed Wiring Board — Panel Section —		7
3-4. Schematic Diagram — Panel Section —		9
3-5. Printed Wiring Board — Main Section —		13
3-6. Schematic Diagram — Main Section —		17
3-7. IC Block Diagrams — Main Section —		21
SECTION 4. EXPLODED VIEWS		
4-1. Front Panel Section		23
4-2. Chassis Section		24
SECTION 5. ELECTRICAL PARTS LIST		25

MODEL IDENTIFICATION

— BACK PANEL —



MODEL	PART NO.
AEP model	4-978-973-0□
German model	4-978-973-1□
Italian model	4-978-973-2□
UK model	4-978-973-3□
E, Malaysia, Singapore model	4-978-973-4□
Hong Kong model	4-978-973-5□
Saudi Arabia model	4-978-973-6□
Thailand model	4-978-973-7□

SAFETY-RELATED COMPONENT WARNING !!

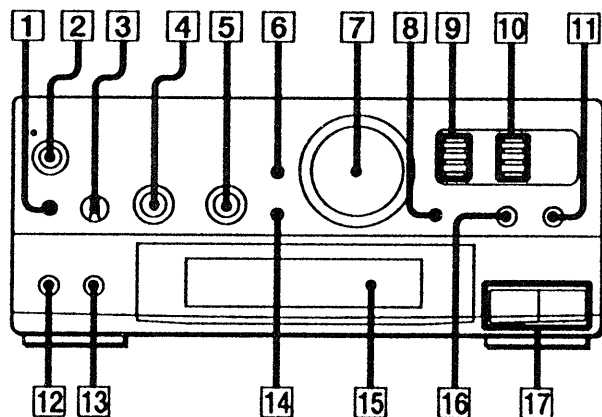
COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1

GENERAL

This section is extracted from instruction manual.

Index to Parts and Controls



- 1** Remote sensor
- 2** 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.
- 3** MIC LEVEL control (25)
(E, EA, HK, SP, MY, TH models)
- 4** BASS control (18)
- 5** TREBLE control (18)
- 6** KARAOKE PON button* (25)
(E, EA, HK, SP, MY, TH models)
- 7** VOLUME control (5, 7, 18, 23)
- 8** SOURCE DIRECT button* (18, 22)
- 9** PRO LOGIC MODE indicators (21)
- 10** DSP MENU indicators (19)
- 11** DSP MODE button (19)
- 12** PHONES jack (18, 26)
- 13** MIX MIC jack (25, 26)
(E, EA, HK, SP, MY, TH models)
- 14** MUTE button* (18)
- 15** Display window
- 16** DOLBY PRO LOGIC button (21, 22)
- 17** FUNCTION buttons
(13, 17, 21, 22, 25, 26)
VIDEO (21, 25, 26)
AUDIO (13, 17, 22, 25, 26)

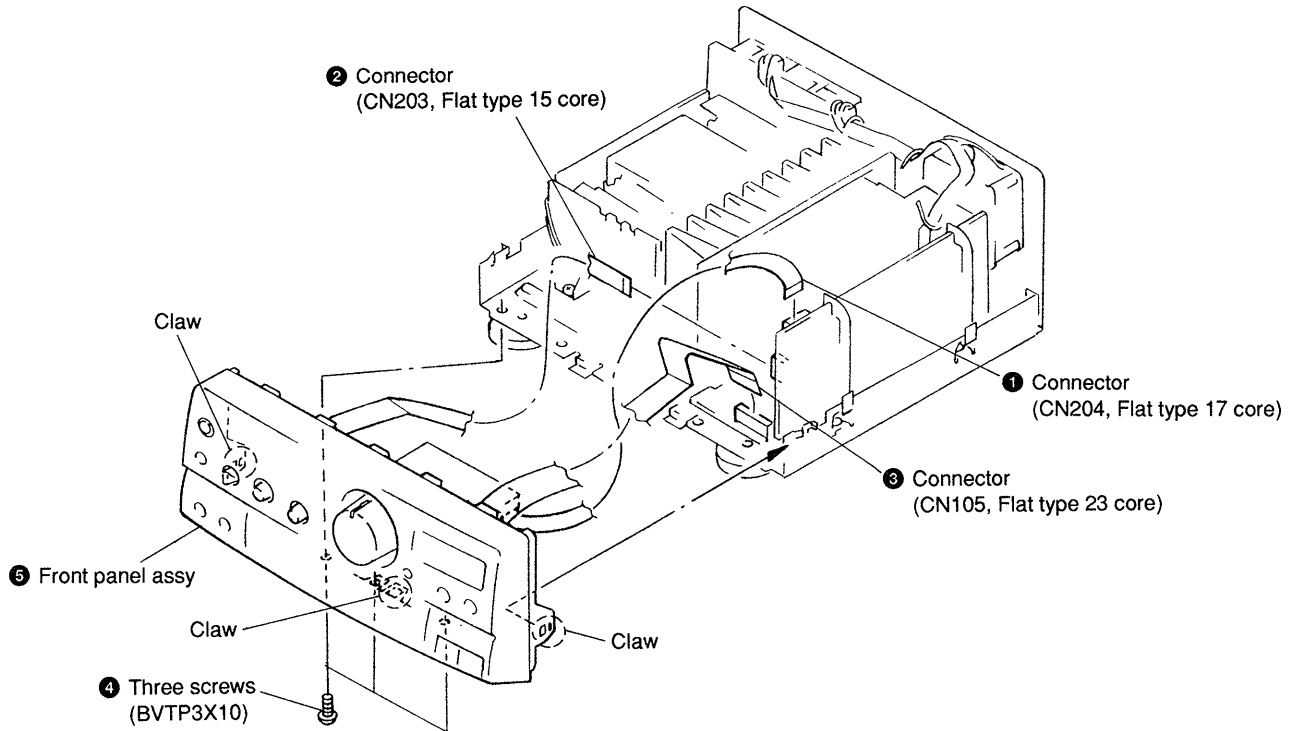
- Abbreviation
- EA : Saudi Arabia model.
- HK : Hong Kong model.
- SP : Singapore model.
- MY : Malaysia model.
- TH : Thailand model.

SECTION 2

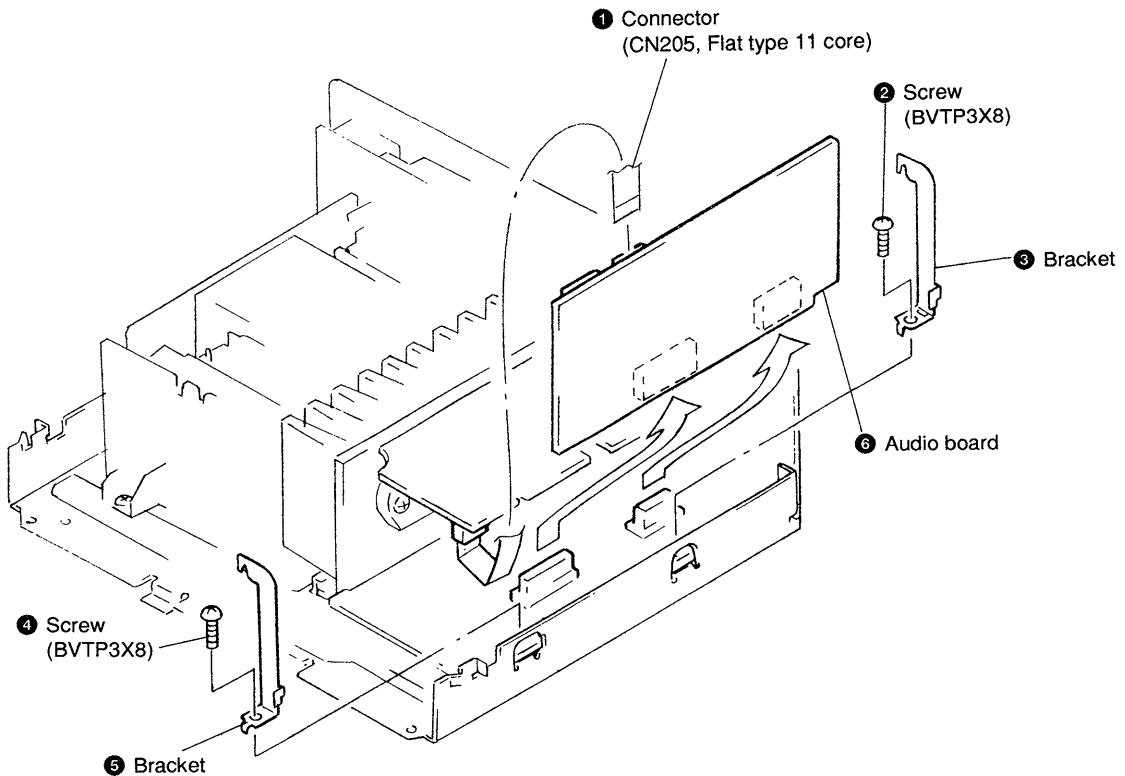
DISASSEMBLY

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

2-1. FRONT PANEL ASSY

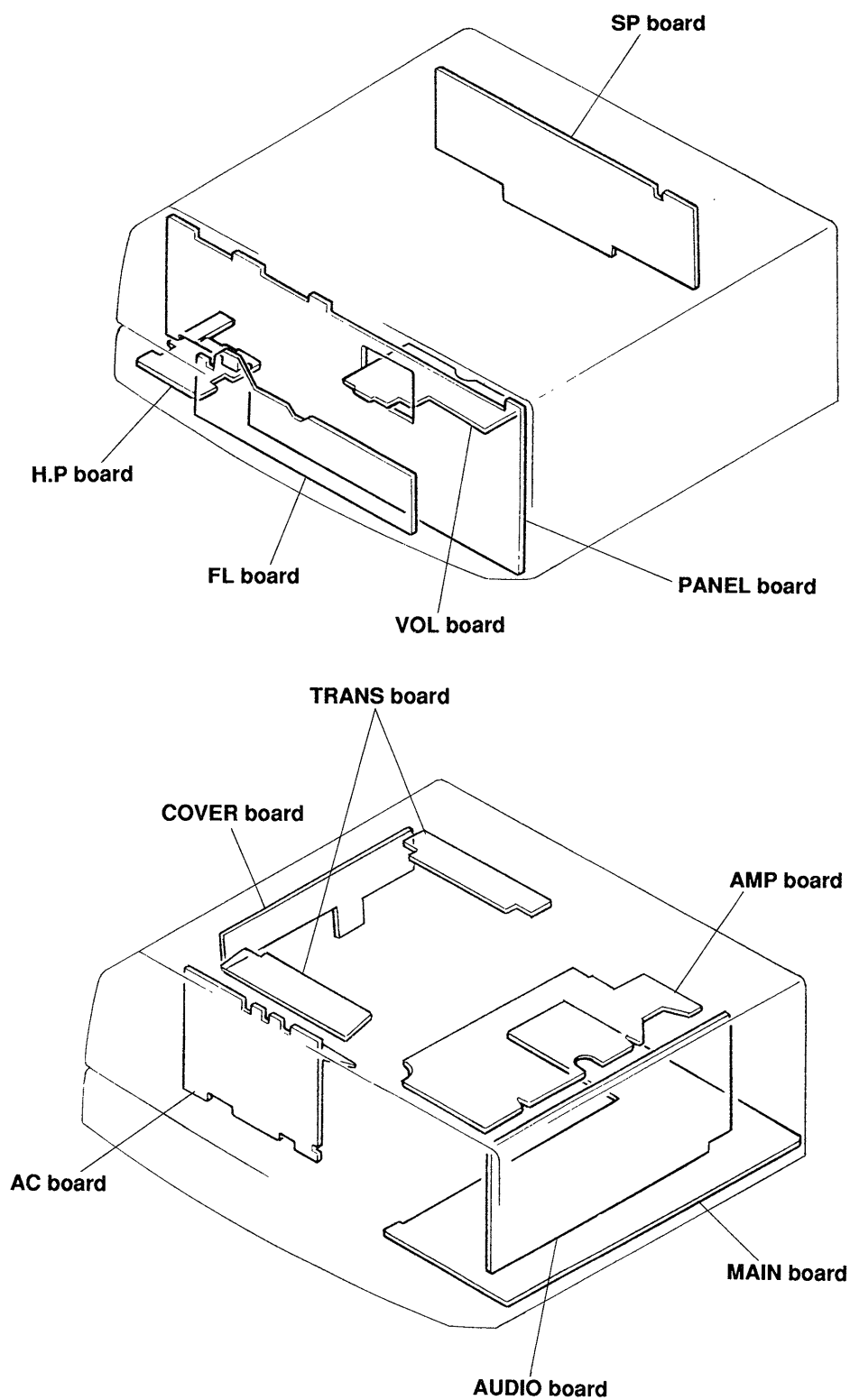


2-2. AUDIO BOARD



SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. IC PIN FUNCTION

PANEL BOARD IC501 M37471M4-S3 (LED Drive, Mode Select)

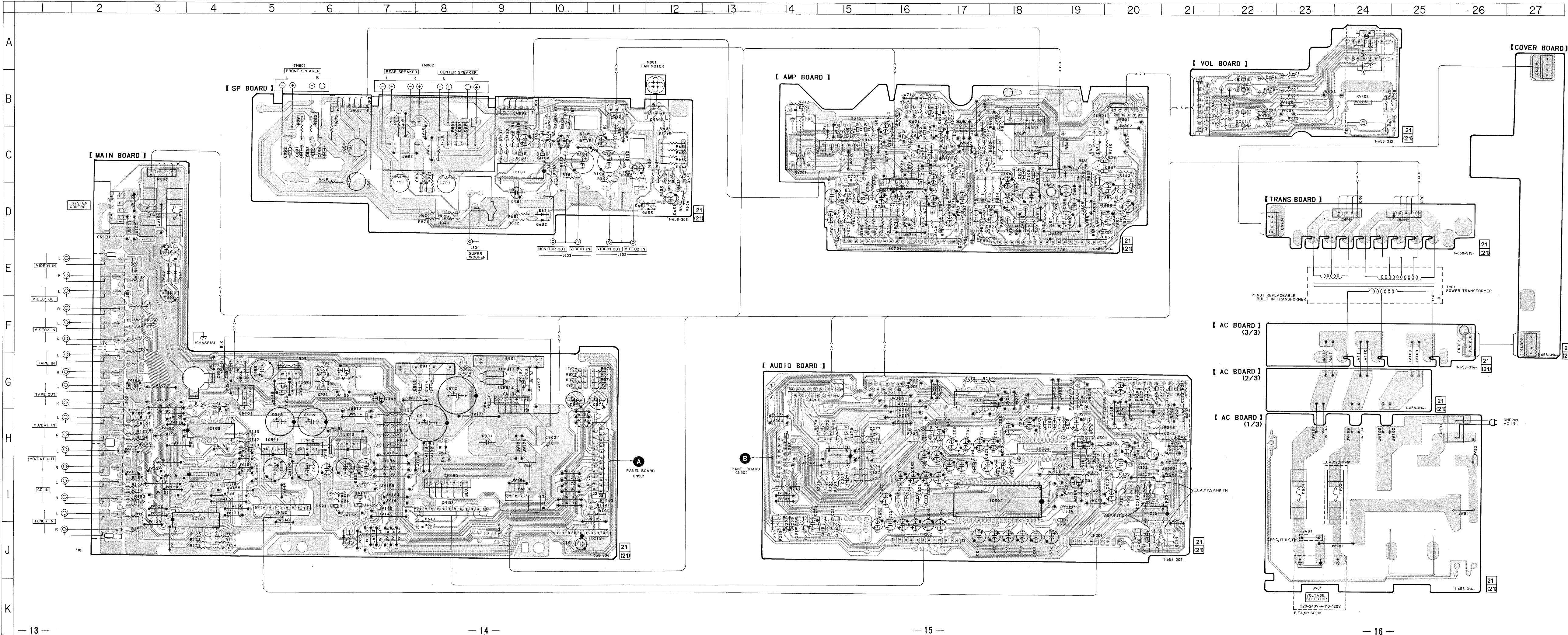
Pin No.	Pin Name	I/O	Function
1	—	—	Not used (Ground)
2	$\overline{CS}$	O	IC551 FL Driver control
3	SCK	O	
4	SDATA	O	
5	POWER ON	O	System power ON
6	SP RY ON	O	Speaker relay ON
7	LINEMUTE	O	Line mute ON
8	VOLUP	O	Volume up
9	VOLDOWN	O	Volume down
10	MENU1	O	LED Control
11	MENU0	O	
12	PROLOGIC	O	
13	DSP	O	
14	EFFECT	O	
15	PMT	O	Line mute control
16	KEY1	I	A/D input
17	KEY0	I	
18	VREF	I	A/D Reference Voltage
19	XIN	I	X'TAL input
20	XOUT	O	X'TAL output
21	VSS	I	Ground
22	VCC	I	+5V
23	$E/\overline{CE}$	I	Destination identification input. CE="H", E="L"
24	$65/\overline{75}$	I	Model identification input. Fixed "H"
25	$\overline{RESET}$	I	Reset input
26	MIC IN	I	Microphone detect input
27	AUBIN	I	AU BUS Input
28	SIRCSIN	I	SIRCS Input
29	—	—	Not used (Ground)
30	AUBOUT	O	AU BUS Output
31	A	O	IC101, 102, 103 Audio function control
32	B	O	
33	C	O	
34	CLK	O	IC301, 302 Prologic/DSP control
35	DATA	O	
36	ENBL	O	
37	$\overline{V1}$	O	IC181 Video function control
38	$\overline{V2}$	O	
39	KARAOKE	O	KARAOKE PON ON
40	-20MUTE	O	-20 dB Muting ON
41	DIRECT	O	Direct ON
42	—	—	Not used (Ground)

3-5. PRINTED WIRING BOARD — MAIN SECTION —
• See page 5 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D191	I-11	IC911	H-5
D202	J-14	IC912	H-6
D601	C-16	IC913	H-6
D602	B-17	IC951	G-5
D603	B-17		
D611	J-8	Q181	C-9
D621	H-8	Q182	C-10
D622	H-8	Q183	C-10
D623	J-8	Q184	C-10
D624	J-6	Q185	C-10
D631	D-10	Q186	C-10
D632	D-10	Q201	J-14
D633	D-12	Q212	J-15
D634	D-12	Q221	B-22
D701	B-14	Q222	B-22
D702	C-15	Q223	B-22
D751	C-17	Q224	C-22
D801	C-17	Q241	G-20
D802	C-18	Q242	G-21
D851	C-19	Q243	G-21
D901	G-9	Q601	C-16
D911	G-8	Q602	C-16
D951	G-5	Q603	C-16
D952	G-4	Q605	B-16
D961	E-3	Q606	B-16
D962	E-3	Q607	B-16
D963	G-6	Q611	I-7
		Q621	I-6
IC101	I-4	Q622	I-7
IC102	J-4	Q631	D-12
IC103	H-4	Q632	D-12
IC181	C-9	Q633	D-12
IC191	J-10	Q634	C-12
IC201	I-20	Q701	D-15
IC211	G-17	Q751	C-17
IC221	H-15	Q801	C-17
IC241	H-20	Q841	C-15
IC301	H-18	Q842	C-15
IC302	I-18	Q851	D-20
IC701	E-16	Q926	G-6
IC801	E-19	Q961	G-6

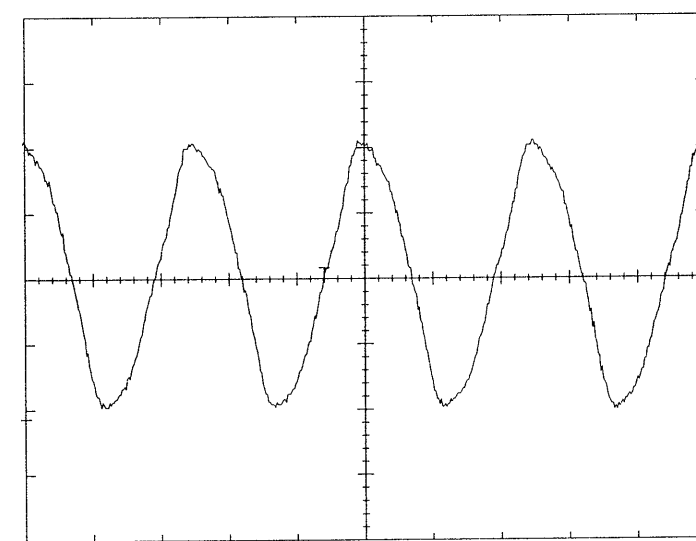
Note:
• : parts extracted from the component side.
• : internal component.
• : Pattern from the side which enable seeing.
• Abbreviation
G : German model.
IT : Italian model.
EA : Saudi Arabia model.
SP : Singapore model.
MY : Malaysia model.
HK : Hong Kong model.
TH : Thailand model.



3-6. SCHEMATIC DIAGRAM — MAIN SECTION —
• See page 21 for IC Block Diagrams.

• Waveform

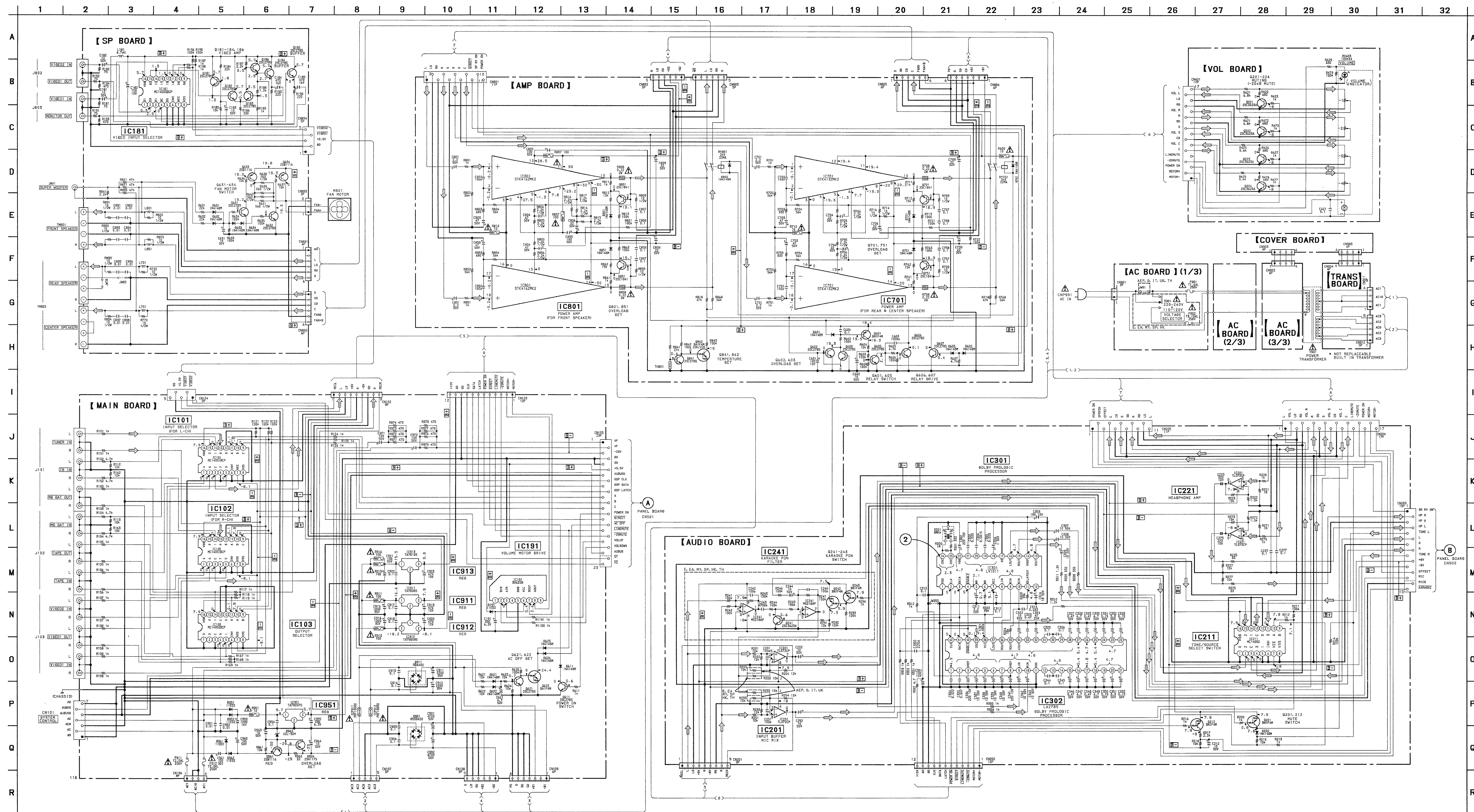
② IC301 Ⓢ pin
8 MHz
4.2 Vp-p



- Note:**
- All capacitors are in μF unless otherwise noted. pF μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and 1/4W or less unless otherwise specified.
 - Δ : internal component.
 - $\square$: nonflammable resistor.
 - f : fusible resistor.
 - $\square$: panel designation.

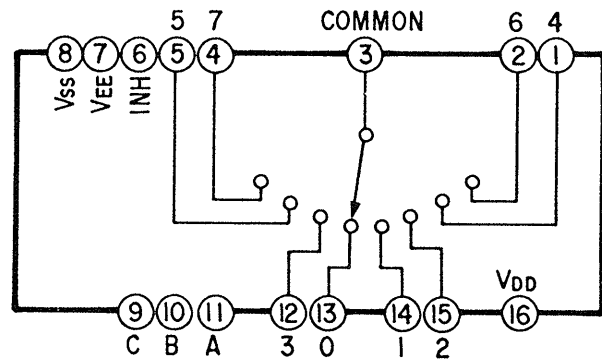
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- B+ : B+ Line
- B- : B- Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark: TUNER MODE
- Voltages are taken with a VOM (input impedance 10M Ω).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- $\square$: FM
- Abbreviation
 - G: German model.
 - IT: Italian model.
 - EA: Saudi Arabia model.
 - SP: Singapore model.
 - MY: Malaysia model.
 - HK: Hong Kong model.
 - TH: Thailand model.

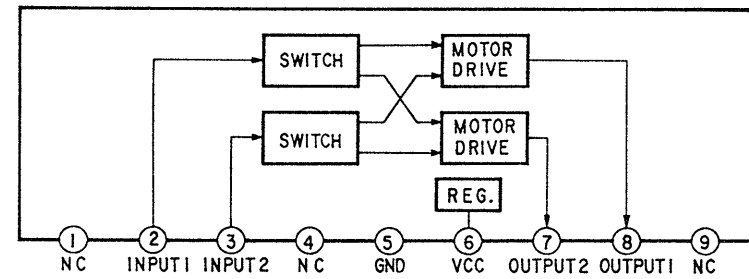


3-7 . IC BLOCK DIAGRAMS — MAIN SECTION —

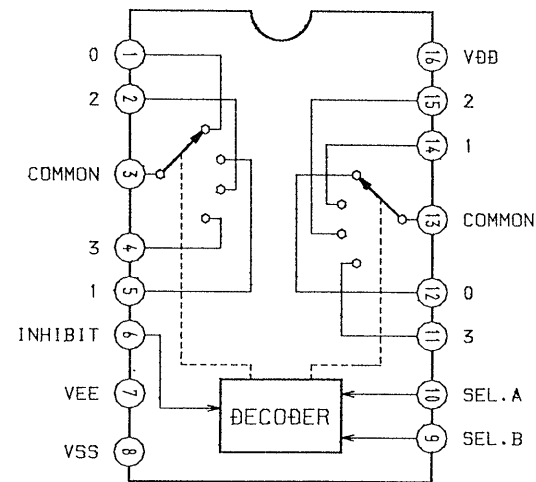
IC101, IC102 MC14051BCP



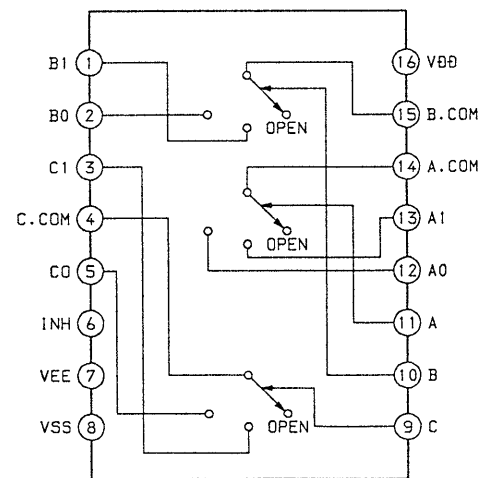
IC191 BA6208



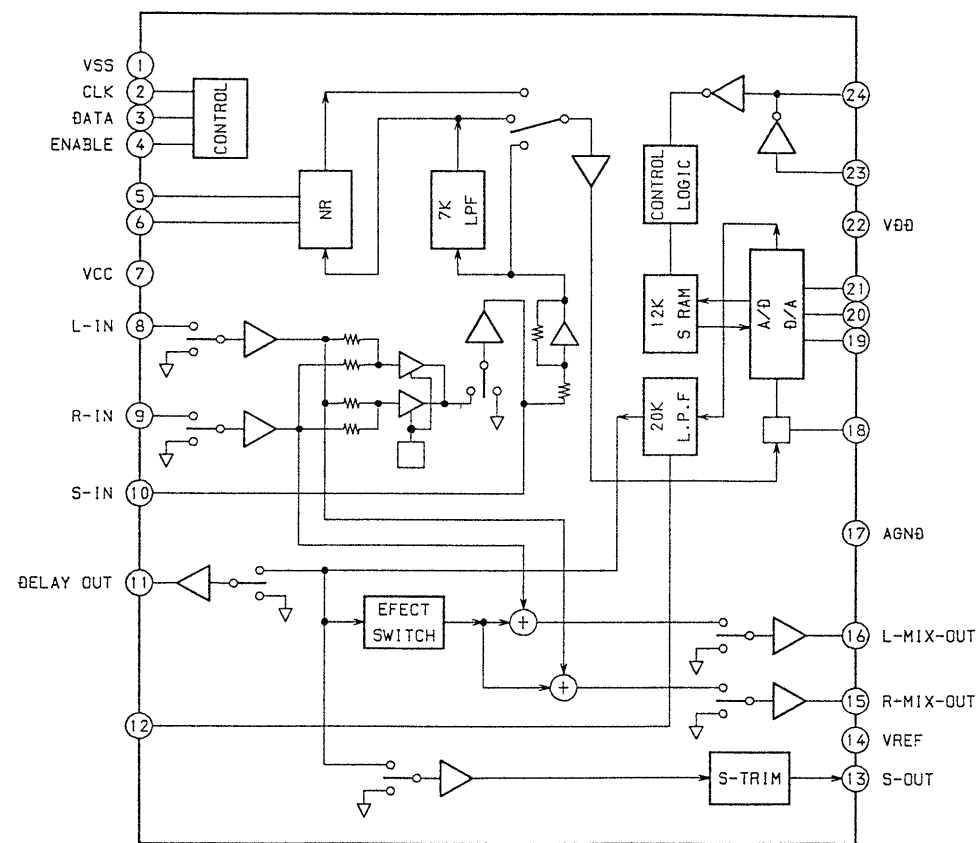
IC103, IC211 MC14052BCP



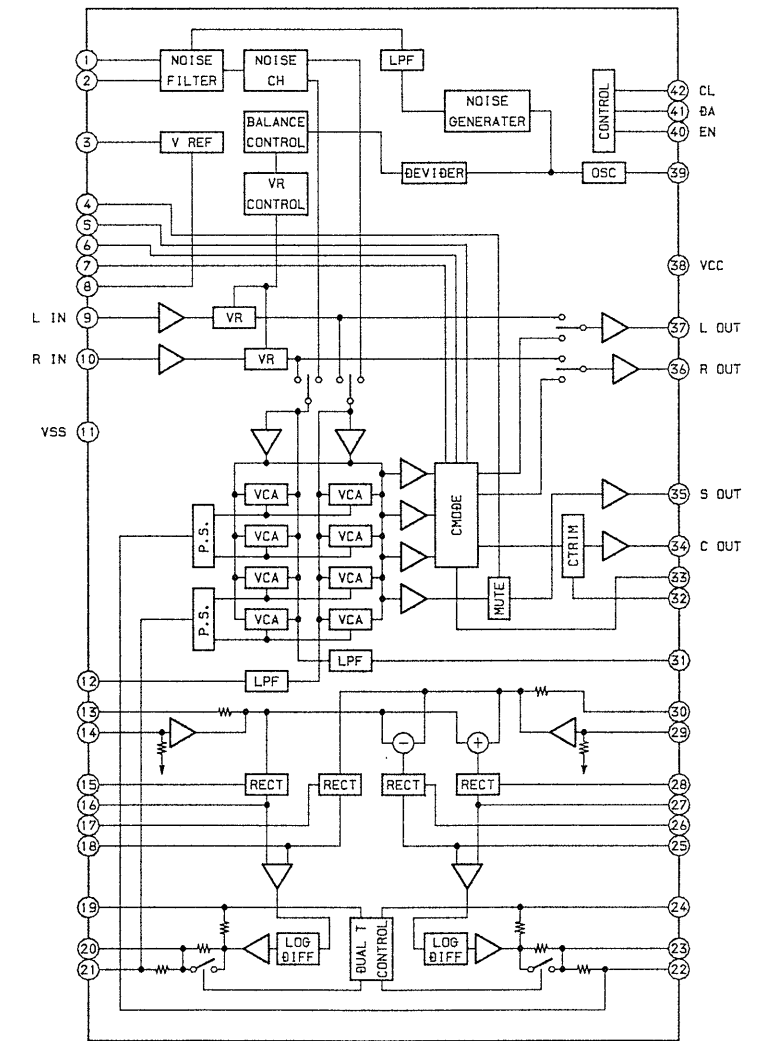
IC181 MC14053BCP



IC301 LV1010N



IC302 LA2785



SECTION 4

EXPLODED VIEWS

NOTE:

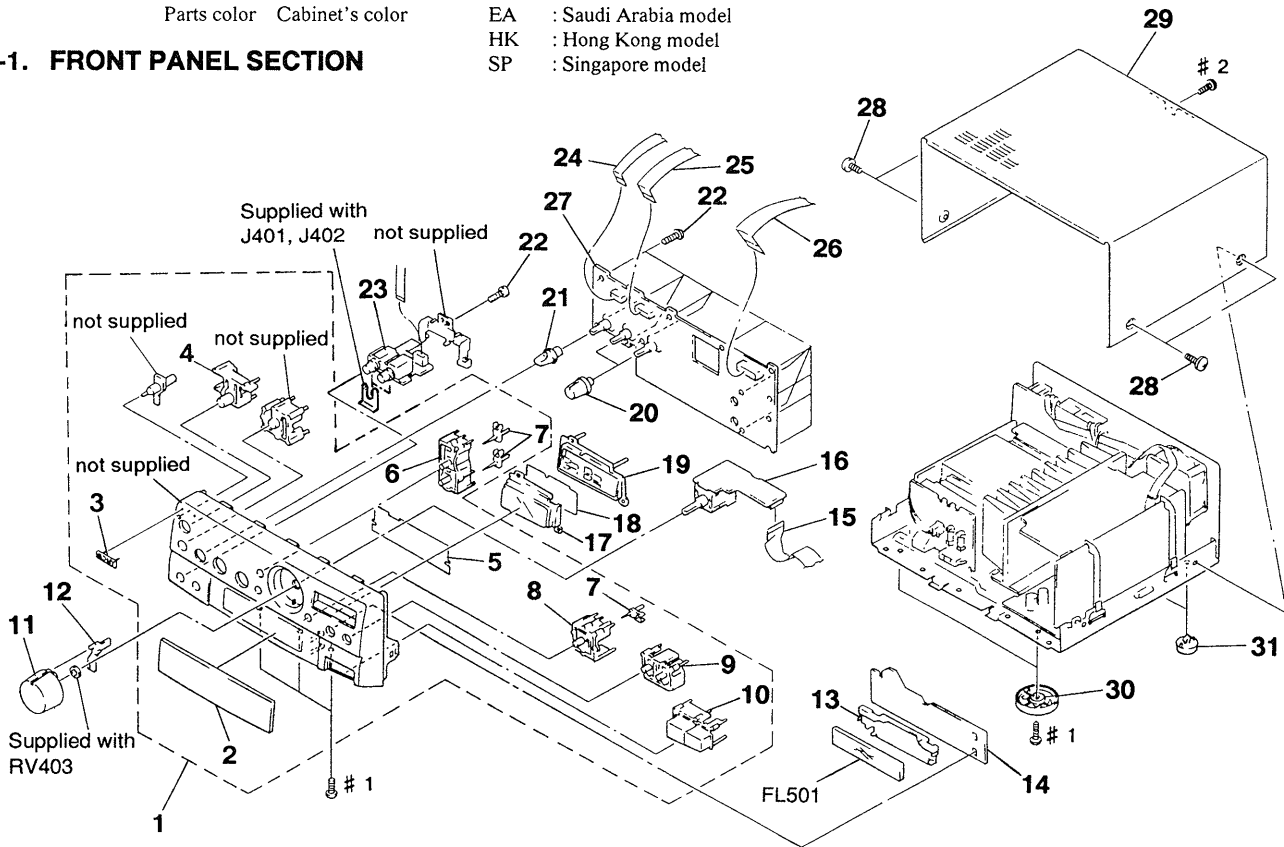
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) ... (RED)

↑ ↑
Parts color Cabinet's color

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
G : German model MY : Malaysia model
IT : Italian model TH : Thailand model
EA : Saudi Arabia model
HK : Hong Kong model
SP : Singapore model

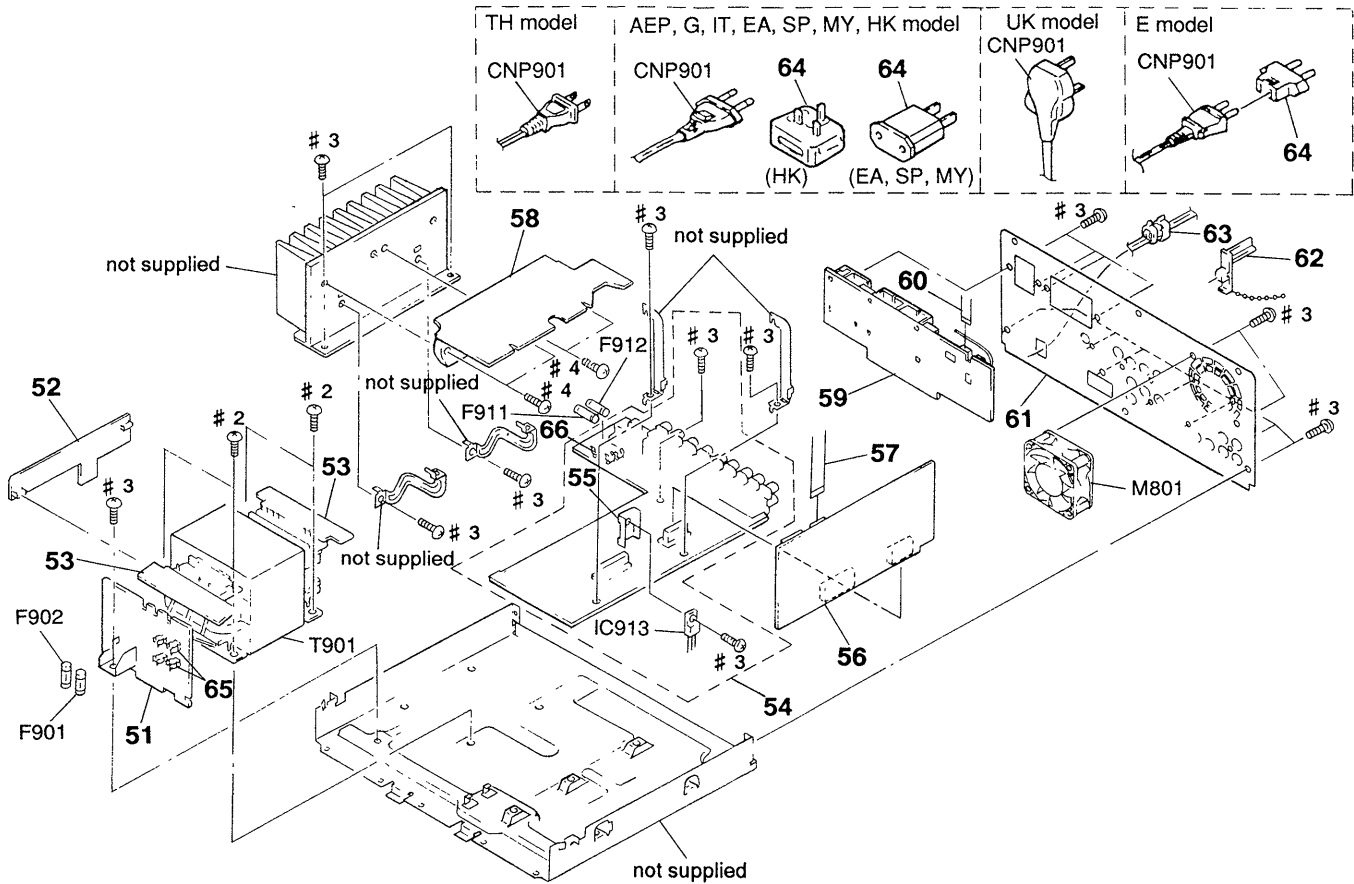
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4946-592-1	PANEL ASSY (S), FRONT (GRAY)... (SILVER)		11	4-970-955-31	KNOB (VOL) (GRAY)... (SILVER)	
1	X-4946-593-1	PANEL ASSY (S), FRONT (GRAY)... (SILVER)	(E, EA, MY, SP, HK)	12	4-979-349-11	INDICATOR (VOL)	
1	X-4946-858-1	PANEL ASSY (B), FRONT (BLACK)... (BLACK)	(AEP, UK, G, IT)	* 13	4-979-799-01	HOLDER (FL)	
1	X-4946-964-1	PANEL ASSY (SP), FRONT (GRAY)... (SILVER)	(AEP, UK, G, IT)	* 14	1-658-310-21	FL BOARD	
2	4-977-683-11	WINDOW (FL) (GRAY)... (SILVER)	(TH)	15	1-773-038-11	WIRE (FLAT TYPE) (17 CORE)	
2	4-977-683-21	WINDOW (FL) (BLACK)... (BLACK)		* 16	1-658-312-21	VOL BOARD	
3	4-962-708-11	EMBLEM (4-A), SONY		17	4-977-741-11	WINDOW (DSP)	
4	4-977-708-11	BUTTON (POWER) (GRAY)... (SILVER)		18	4-977-743-11	WINDOW (DSP 2)	
4	4-977-708-21	BUTTON (POWER) (BLACK)... (BLACK)		19	4-977-747-11	HOLDER (LED-8)	
5	4-979-352-21	FILTER (CD)		20	4-970-965-21	KNOB (TONE) (BLACK)... (BLACK)	
6	4-977-736-11	BUTTON (MUTE) (GRAY)... (SILVER)		20	4-970-965-31	KNOB (TONE) (GRAY)... (SILVER)	
6	4-977-736-21	BUTTON (MUTE) (GRAY)... (SILVER)	(AEP, UK, G, IT)	21	4-973-043-31	KNOB (KR) (GRAY)... (SILVER)	
6	4-977-736-31	BUTTON (MUTE) (BLACK)... (BLACK)	(E, EA, MY, SP, HK, TH)				(E, EA, MY, SP, HK, TH)
7	4-977-740-11	INDICATOR (MUTE)		22	4-951-620-01	SCREW (2. 6X8), +BVTP	
8	4-977-737-11	BUTTON (SD) (GRAY)... (SILVER)		* 23	1-658-311-21	H.P BOARD	
8	4-977-737-21	BUTTON (SD) (BLACK)... (BLACK)		24	1-769-910-11	WIRE (FLAT TYPE) (9 CORE)	
9	4-977-738-11	BUTTON (DSP)		25	1-765-332-11	WIRE (FLAT TYPE) (15 CORE)	
10	4-977-739-11	BUTTON (FUNC) (GRAY)... (SILVER)		26	1-776-933-11	WIRE (FLAT TYPE) (23 CORE)	
10	4-977-739-31	BUTTON (FUNC) (BLACK)... (BLACK)		* 27	A-4378-829-A	PANEL BOARD, COMPLETE (E, EA, MY, SP, HK, TH)	
11	4-970-955-21	KNOB (VOL) (BLACK)... (BLACK)		* 27	A-4378-837-A	PANEL BOARD, COMPLETE (AEP, UK, G, IT)	
				28	3-363-099-01	SCREW (CASE 3 TP2)	
				29	4-978-245-31	CASE (GRAY)... (SILVER)	
				29	4-980-744-41	CASE (BLACK)... (BLACK)	
				30	4-977-699-11	LEG (F)	
				31	4-965-822-01	FOOT	
				FL501	1-517-367-11	INDICATOR TUBE, FLUORESCENT	

4-2. CHASSIS SECTION



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51	1-658-314-21	AC BOARD		* 63	3-703-244-00	BUSHING (2104), CORD (AEP, UK, G, IT, EA, MY, SP, HK)	
* 52	1-658-316-21	COVER BOARD		* 63	3-703-571-11	BUSHING (S) (4516), CORD (E, TH)	
* 53	1-658-315-21	TRANSFORMER BOARD		$\triangle$ 64	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
* 54	A-4378-834-A	MAIN BOARD, COMPLETE (E, EA, MY, SP, HK, TH)		$\triangle$ 64	1-569-008-11	ADAPTER, CONVERSION 2P (EA, MY, SP)	
* 54	A-4378-845-A	MAIN BOARD, COMPLETE (AEP, UK, G, IT)		$\triangle$ 64	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
* 55	3-309-144-21	HEAT SINK		65	1-533-217-31	HOLDER, FUSE	
* 56	A-4378-835-A	AUDIO BOARD, COMPLETE (E, EA, MY, SP, HK, TH)		66	1-533-233-11	HOLDER, FUSE	
* 56	A-4378-846-A	AUDIO BOARD, COMPLETE (AEP, UK, G, IT)		$\triangle$ CNP901	1-575-651-11	CORD, POWER (AEP, G, IT, EA, MY, SP, HK)	
57	1-769-940-11	WIRE (FLAT TYPE) (11 CORE)		$\triangle$ CNP901	1-575-653-11	CORD, POWER (E)	
* 58	A-4378-832-A	AMP BOARD, COMPLETE (E, EA, MY, SP, HK, TH)		$\triangle$ CNP901	1-751-326-31	CORD, POWER (TH)	
* 58	A-4378-841-A	AMP BOARD, COMPLETE (AEP, UK, G, IT)		$\triangle$ CNP901	1-751-520-21	CORD, POWER (UK)	
* 59	A-4378-836-A	SP BOARD, COMPLETE (E, EA, MY, SP, HK, TH)		$\triangle$ F901	1-532-259-00	FUSE TIME LAG (1.6A, 250V) (AEP, UK, G, IT, E, EA, MY, SP, HK)	
* 59	A-4378-847-A	SP BOARD, COMPLETE (AEP, UK, G, IT)		$\triangle$ F902	1-532-237-00	FUSE TIME LAG (3.15A, 250V) (E, EA, MY, SP, HK)	
60	1-769-848-11	WIRE (FLAT TYPE) (5 CORE)		$\triangle$ F911	1-532-203-00	FUSE TIME LAG (2A, 250V)	
* 61	4-978-973-01	PANEL, BACK (AEP)		$\triangle$ F912	1-532-203-00	FUSE TIME LAG (2A, 250V)	
* 61	4-978-973-11	PANEL, BACK (G)		IC913	8-759-231-57	IC TA7810S	
* 61	4-978-973-21	PANEL, BACK (IT)		M801	1-698-748-11	MOTOR, FAN (DC)	
* 61	4-978-973-31	PANEL, BACK (UK)		$\triangle$ T901	1-429-313-11	TRANSFORMER, POWER (E, EA, MY, SP, HK, TH)	
* 61	4-978-973-41	PANEL, BACK (E, MY, SP)		$\triangle$ T901	1-429-314-11	TRANSFORMER, POWER (AEP, UK, G, IT)	
* 61	4-978-973-51	PANEL, BACK (HK)					
* 61	4-978-973-61	PANEL, BACK (EA)					
* 61	4-978-973-71	PANEL, BACK (TH)					
62	4-956-370-02	BAND, PLUG FIXED (UK, HK)					

SECTION 5

ELECTRICAL PARTS LIST

AC AMP

NOTE:

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

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

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- CAPACITORS
uF: μ F

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- COILS
uH: μ H
- Abbreviation
G: German model
IT: Italian model
EA: Saudi Arabia model
HK: Hong Kong model
SP: Singapore model
MY: Malaysia model
TH: Thailand model

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*	1-658-314-21	AC BOARD *****		C758	1-164-159-11	CERAMIC 0.1uF	50V
	1-533-223-11	HOLDER, FUSE		C759	1-126-965-11	ELECT 22uF	20% 50V
		< CONNECTOR >		C801	1-126-961-11	ELECT 2.2uF	20% 50V
CN901	1-564-321-00	PIN, CONNECTOR 2P		C802	1-164-070-11	CERAMIC 100PF	5% 50V
CN902	1-770-011-41	CONNECTOR, BOARD TO BOARD 4P		C803	1-124-910-11	ELECT 47uF	20% 50V
		< FUSE >		C804	1-124-910-11	ELECT 47uF	20% 50V
Δ F901	1-532-259-00	FUSE, TIME LAG (1.6A, 250V)		C805	1-124-122-11	ELECT 100uF	20% 50V
Δ F902	1-532-237-00	FUSE, TIME LAG (3.15A, 250V)	(E, EA, MY, SP, HK)	C806	1-126-965-11	ELECT 22uF	20% 50V
		< SWITCH >		C807	1-136-165-00	FILM 0.1uF	5% 50V
Δ S901	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (E, EA, MY, SP, HK)		C808	1-136-165-00	FILM 0.1uF	5% 50V
*****				C809	1-126-965-11	ELECT 22uF	20% 50V
*	A-4378-841-A	AMP BOARD, COMPLETE (AEP, G, IT, UK) *****		C851	1-126-961-11	ELECT 2.2uF	20% 50V
*	A-4378-832-A	AMP BOARD, COMPLETE (E, EA, MY, SP, HK, TH) *****		C852	1-164-070-11	CERAMIC 100PF	5% 50V
		< CAPACITOR >		C853	1-124-910-11	ELECT 47uF	20% 50V
C601	1-124-443-00	ELECT 100uF	20% 10V	C854	1-124-910-11	ELECT 47uF	20% 50V
C602	1-124-907-11	ELECT 10uF	20% 50V	C855	1-124-122-11	ELECT 100uF	20% 50V
C603	1-162-294-31	CERAMIC 0.001uF	10% 50V	C857	1-136-165-00	FILM 0.1uF	5% 50V
C604	1-164-159-11	CERAMIC 0.1uF	50V	C858	1-136-165-00	FILM 0.1uF	5% 50V
C701	1-126-961-11	ELECT 2.2uF	20% 50V	C859	1-126-965-11	ELECT 22uF	20% 50V
C702	1-162-282-31	CERAMIC 100PF	10% 50V			< CONNECTOR >	
C703	1-124-910-11	ELECT 47uF	20% 50V	* CN801	1-568-830-11	SOCKET, CONNECTOR 11P	
C704	1-126-965-11	ELECT 22uF	20% 50V	CN803	1-770-965-11	PIN, CONNECTOR (PCB) (V TYPE) 5P	
C706	1-126-965-11	ELECT 22uF	20% 50V	CN805	1-764-329-11	PIN, CONNECTOR (PCB) (V TYPE) 6P	
C707	1-164-159-11	CERAMIC 0.1uF	50V			< DIODE >	
C708	1-164-159-11	CERAMIC 0.1uF	50V	D601	8-719-987-63	DIODE 1N4148M	
C709	1-126-965-11	ELECT 22uF	20% 50V	D602	8-719-987-63	DIODE 1N4148M	
C751	1-126-961-11	ELECT 2.2uF	20% 50V	D603	8-719-987-63	DIODE 1N4148M	
C752	1-162-282-31	CERAMIC 100PF	10% 50V	D701	8-719-987-63	DIODE 1N4148M	
C753	1-124-910-11	ELECT 47uF	20% 50V	D702	8-719-987-63	DIODE 1N4148M	
C754	1-126-965-11	ELECT 22uF	20% 50V	D751	8-719-987-63	DIODE 1N4148M	
C757	1-164-159-11	CERAMIC 0.1uF	50V	D801	8-719-987-63	DIODE 1N4148M	
				D802	8-719-987-63	DIODE 1N4148M	
				D851	8-719-987-63	DIODE 1N4148M	
						< IC >	
				IC701	8-749-920-13	IC STK-4132MK2	
				IC801	8-749-900-24	IC STK-4162MK2	
						< TRANSISTOR >	
				Q601	8-729-900-63	TRANSISTOR DTA124ES	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q602	8-729-119-78	TRANSISTOR	2SC2785-HFE	R801	1-249-417-11	CARBON	1K 5% 1/4W
Q603	8-729-119-78	TRANSISTOR	2SC2785-HFE	R802	1-249-438-11	CARBON	56K 5% 1/4W
Q605	8-729-119-78	TRANSISTOR	2SC2785-HFE	R803	1-249-415-11	CARBON	680 5% 1/4W
Q606	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q607	8-729-119-78	TRANSISTOR	2SC2785-HFE	R804	1-249-438-11	CARBON	56K 5% 1/4W
Q701	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	R805	1-260-103-11	CARBON	2.2K 5% 1/2W
Q751	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	R806	1-260-103-11	CARBON	2.2K 5% 1/2W
Q801	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	△R807	1-212-881-11	FUSIBLE	100 5% 1/4W F
Q841	8-729-119-78	TRANSISTOR	2SC2785-HFE	△R808	1-217-151-00	RES, METAL PLATE	0.22 F
Q842	8-729-900-36	TRANSISTOR	DTC124ES	R809	1-260-076-11	CARBON	10 5% 1/2W
Q851	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	△R810	1-212-857-00	FUSIBLE	10 5% 1/4W F
< RESISTOR >				R811	1-249-417-11	CARBON	1K 5% 1/4W
△R600	1-212-857-00	FUSIBLE	10 5% 1/4W F	R812	1-249-431-11	CARBON	15K 5% 1/4W
R602	1-249-441-11	CARBON	100K 5% 1/4W	R813	1-249-441-11	CARBON	100K 5% 1/4W
R603	1-249-441-11	CARBON	100K 5% 1/4W	R814	1-260-103-11	CARBON	2.2K 5% 1/2W
R604	1-249-429-11	CARBON	10K 5% 1/4W	R815	1-260-103-11	CARBON	2.2K 5% 1/2W
R605	1-249-425-11	CARBON	4.7K 5% 1/4W	R816	1-260-103-11	CARBON	2.2K 5% 1/2W
R606	1-249-441-11	CARBON	100K 5% 1/4W	R817	1-260-103-11	CARBON	2.2K 5% 1/2W
R607	1-249-425-11	CARBON	4.7K 5% 1/4W	R818	1-249-437-11	CARBON	47K 5% 1/4W
R608	1-249-441-11	CARBON	100K 5% 1/4W	R821	1-249-441-11	CARBON	100K 5% 1/4W
R701	1-249-417-11	CARBON	1K 5% 1/4W	R841	1-249-434-11	CARBON	27K 5% 1/4W
R702	1-249-438-11	CARBON	56K 5% 1/4W	R842	1-249-441-11	CARBON	100K 5% 1/4W
R703	1-249-411-11	CARBON	330 5% 1/4W	R843	1-249-441-11	CARBON	100K 5% 1/4W
R704	1-249-438-11	CARBON	56K 5% 1/4W	R851	1-249-417-11	CARBON	1K 5% 1/4W
R705	1-260-103-11	CARBON	2.2K 5% 1/2W	R852	1-249-438-11	CARBON	56K 5% 1/4W
R706	1-260-103-11	CARBON	2.2K 5% 1/2W	R853	1-249-415-11	CARBON	680 5% 1/4W
△R708	1-217-151-00	RES, METAL PLATE	0.22 F	R854	1-249-438-11	CARBON	56K 5% 1/4W
R709	1-260-076-11	CARBON	10 5% 1/2W	R855	1-260-103-11	CARBON	2.2K 5% 1/2W
△R710	1-212-857-00	FUSIBLE	10 5% 1/4W F	R856	1-260-103-11	CARBON	2.2K 5% 1/2W
R711	1-249-417-11	CARBON	1K 5% 1/4W	△R857	1-212-881-11	FUSIBLE	100 5% 1/4W F
R712	1-249-431-11	CARBON	15K 5% 1/4W	△R858	1-217-151-00	RES, METAL PLATE	0.22 F
R713	1-249-441-11	CARBON	100K 5% 1/4W	R859	1-260-076-11	CARBON	10 5% 1/2W
R714	1-260-099-11	CARBON	1K 5% 1/2W	R861	1-249-417-11	CARBON	1K 5% 1/4W
R716	1-260-099-11	CARBON	1K 5% 1/2W	R862	1-249-431-11	CARBON	15K 5% 1/4W
R718	1-249-437-11	CARBON	47K 5% 1/4W	R863	1-249-441-11	CARBON	100K 5% 1/4W
R721	1-249-441-11	CARBON	100K 5% 1/4W	R868	1-249-438-11	CARBON	56K 5% 1/4W
R722	1-249-441-11	CARBON	100K 5% 1/4W	< RELAY >			
R751	1-249-417-11	CARBON	1K 5% 1/4W	RY701	1-515-920-11	RELAY (24V)	
R752	1-249-438-11	CARBON	56K 5% 1/4W	RY801	1-515-920-11	RELAY (24V)	
R753	1-249-411-11	CARBON	330 5% 1/4W	< THERMISTOR >			
R754	1-249-438-11	CARBON	56K 5% 1/4W	TH801	1-807-796-11	THERMISTOR	
R755	1-260-103-11	CARBON	2.2K 5% 1/2W	*****			
R756	1-260-103-11	CARBON	2.2K 5% 1/2W				
△R758	1-217-151-00	RES, METAL PLATE	0.22 F				
R759	1-260-076-11	CARBON	10 5% 1/2W				
R761	1-249-417-11	CARBON	1K 5% 1/4W				
R762	1-249-431-11	CARBON	15K 5% 1/4W				
R763	1-249-441-11	CARBON	100K 5% 1/4W				
R768	1-249-438-11	CARBON	56K 5% 1/4W				

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

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
*	A-4378-846-A	AUDIO BOARD, COMPLETE (AEP, G, IT, UK)	*****				C333	1-124-250-11	ELECT	0.15uF	20%	50V	
							C334	1-136-157-00	FILM	0.022uF	5%	50V	
							C335	1-136-161-00	FILM	0.047uF	5%	50V	
*	A-4378-835-A	AUDIO BOARD, COMPLETE (E, EA, MY, SP, HK, TH)	*****				C336	1-104-666-11	ELECT	220uF	20%	10V	
							C337	1-124-907-11	ELECT	10uF	20%	50V	
< CAPACITOR >							C338	1-124-907-11	ELECT	10uF	20%	50V	
C201	1-164-070-11	CERAMIC	100PF	5%	50V	C339	1-124-907-11	ELECT	10uF	20%	50V		
C202	1-124-907-11	ELECT	10uF	20%	50V	C340	1-124-907-11	ELECT	10uF	20%	50V		
C212	1-124-907-11	ELECT	10uF	20%	50V	C341	1-104-666-11	ELECT	220uF	20%	10V		
C225	1-115-499-91	ELECT	220uF	20%	10V	C342	1-124-907-11	ELECT	10uF	20%	50V		
C227	1-164-159-11	CERAMIC	0.1uF		50V	C343	1-124-907-11	ELECT	10uF	20%	50V		
C242	1-162-282-31	CERAMIC	100PF	10%	50V	C344	1-136-165-00	FILM	0.1uF	5%	50V		
		(E, EA, MY, SP, HK, TH)				C345	1-136-165-00	FILM	0.1uF	5%	50V		
C243	1-162-600-11	CERAMIC	0.0047uF	20%	16V	C346	1-124-465-00	ELECT	0.47uF	20%	50V		
		(E, EA, MY, SP, HK, TH)				C347	1-126-963-11	ELECT	4.7uF	20%	50V		
C244	1-124-907-11	ELECT	10uF	20%	50V	C348	1-124-465-00	ELECT	0.47uF	20%	50V		
		(E, EA, MY, SP, HK, TH)				C349	1-126-963-11	ELECT	4.7uF	20%	50V		
C246	1-162-282-31	CERAMIC	100PF	10%	50V	C350	1-124-250-11	ELECT	0.15uF	20%	50V		
		(E, EA, MY, SP, HK, TH)				C351	1-126-962-11	ELECT	3.3uF	20%	50V		
C251	1-164-070-11	CERAMIC	100PF	5%	50V	C352	1-124-250-11	ELECT	0.15uF	20%	50V		
C252	1-124-907-11	ELECT	10uF	20%	50V	C353	1-124-443-00	ELECT	100uF	20%	10V		
C275	1-115-499-91	ELECT	220uF	20%	10V	< CONNECTOR >							
C277	1-164-159-11	CERAMIC	0.1uF		50V	CN201	1-770-728-11	CONNECTOR, BOARD TO BOARD	9P				
C300	1-162-286-31	CERAMIC	220PF	10%	50V	CN202	1-770-731-11	CONNECTOR, BOARD TO BOARD	12P				
C301	1-124-443-00	ELECT	100uF	20%	10V	* CN203	1-568-834-11	SOCKET, CONNECTOR	15P				
C302	1-104-666-11	ELECT	220uF	20%	10V	CN204	1-568-860-11	SOCKET, CONNECTOR	17P				
C303	1-136-159-00	FILM	0.033uF	5%	50V	* CN205	1-568-854-11	SOCKET, CONNECTOR	11P				
C304	1-130-473-00	MYLAR	0.0015uF	5%	50V	< DIODE >							
C305	1-136-159-00	FILM	0.033uF	5%	50V	D202	8-719-987-63	DIODE	1N4148M				
C306	1-124-903-11	ELECT	1uF	20%	50V	< IC >							
C307	1-124-907-11	ELECT	10uF	20%	50V	IC201	8-759-910-83	IC	TL072ACP				
C308	1-124-907-11	ELECT	10uF	20%	50V	IC211	8-759-000-48	IC	MC14052BCP				
C309	1-124-907-11	ELECT	10uF	20%	50V	IC221	8-759-910-83	IC	TL072ACP				
C310	1-164-159-11	CERAMIC	0.1uF		50V	IC241	8-759-634-51	IC	M5218AP (E, EA, MY, SP, HK, TH)				
C311	1-126-961-11	ELECT	2.2uF	20%	50V	IC301	8-759-168-98	IC	LV1010N				
C312	1-164-159-11	CERAMIC	0.1uF		50V	IC302	8-759-248-74	IC	LA2785				
C313	1-136-159-00	FILM	0.033uF	5%	50V	< TRANSISTOR >							
C314	1-124-907-11	ELECT	10uF	20%	50V	Q201	8-729-900-63	TRANSISTOR	DTA124ES				
C321	1-162-292-31	CERAMIC	680PF	10%	50V	Q212	8-729-900-63	TRANSISTOR	DTA124ES				
C322	1-124-907-11	ELECT	10uF	20%	50V	Q241	8-729-141-30	TRANSISTOR	2SC3623A-LK (E, EA, MY, SP, HK, T				
C323	1-136-173-00	FILM	0.47uF	5%	50V	Q242	8-729-900-63	TRANSISTOR	DTA124ES (E, EA, MY, SP, HK, TH)				
C324	1-124-477-11	ELECT	47uF	20%	25V	Q243	8-729-900-63	TRANSISTOR	DTA124ES (E, EA, MY, SP, HK, TH)				
C325	1-136-165-00	FILM	0.1uF	5%	50V	< RESISTOR >							
C326	1-136-165-00	FILM	0.1uF	5%	50V	R200	1-249-417-11	CARBON	1K	5%	1/4W		
C327	1-124-465-00	ELECT	0.47uF	20%	50V	R201	1-249-429-11	CARBON	10K	5%	1/4W		
C328	1-126-963-11	ELECT	4.7uF	20%	50V								
C329	1-124-465-00	ELECT	0.47uF	20%	50V								
C330	1-126-963-11	ELECT	4.7uF	20%	50V								
C331	1-124-250-11	ELECT	0.15uF	20%	50V								
C332	1-126-962-11	ELECT	3.3uF	20%	50V								

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R202	1-249-430-11	CARBON	12K	5%	1/4W	R293	1-249-441-11	CARBON	100K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W						(E, EA, MY, SP, HK, TH)
					(E, EA, MY, SP, HK, TH)	R294	1-249-417-11	CARBON	1K	5%	1/4W
R204	1-249-430-11	CARBON	12K	5%	1/4W						(E, EA, MY, SP, HK, TH)
R205	1-249-429-11	CARBON	10K	5%	1/4W	R300	1-247-903-00	CARBON	1M	5%	1/4W
					(AEP, G, IT, UK)	R301	1-249-411-11	CARBON	330	5%	1/4W
R211	1-249-441-11	CARBON	100K	5%	1/4W	R302	1-249-436-11	CARBON	39K	5%	1/4W
R212	1-249-417-11	CARBON	1K	5%	1/4W	R303	1-249-436-11	CARBON	39K	5%	1/4W
R213	1-249-417-11	CARBON	1K	5%	1/4W	R304	1-249-432-11	CARBON	18K	5%	1/4W
R214	1-249-441-11	CARBON	100K	5%	1/4W	R305	1-249-417-11	CARBON	1K	5%	1/4W
						R306	1-249-417-11	CARBON	1K	5%	1/4W
R215	1-249-429-11	CARBON	10K	5%	1/4W	R307	1-249-389-11	CARBON	4.7	5%	1/4W
R216	1-249-417-11	CARBON	1K	5%	1/4W						
R217	1-249-421-11	CARBON	2.2K	5%	1/4W	R308	1-249-411-11	CARBON	330	5%	1/4W
R218	1-249-429-11	CARBON	10K	5%	1/4W	R309	1-249-411-11	CARBON	330	5%	1/4W
R220	1-249-417-11	CARBON	1K	5%	1/4W	R310	1-249-418-11	CARBON	1.2K	5%	1/4W
						R311	1-249-418-11	CARBON	1.2K	5%	1/4W
R221	1-247-903-00	CARBON	1M	5%	1/4W	R312	1-249-417-11	CARBON	1K	5%	1/4W
R222	1-249-419-11	CARBON	1.5K	5%	1/4W						
R223	1-249-429-11	CARBON	10K	5%	1/4W	R351	1-249-417-11	CARBON	1K	5%	1/4W
R225	1-249-399-11	CARBON	33	5%	1/4W	R352	1-249-417-11	CARBON	1K	5%	1/4W
R227	1-249-429-11	CARBON	10K	5%	1/4W	R353	1-249-417-11	CARBON	1K	5%	1/4W
											< VIBRATOR >
R241	1-249-441-11	CARBON	100K	5%	1/4W						
					(E, EA, MY, SP, HK, TH)	X301	1-579-125-11	VIBRATOR, CERAMIC (8MHz)			
R242	1-249-441-11	CARBON	100K	5%	1/4W						*****
					(E, EA, MY, SP, HK, TH)						
R243	1-249-441-11	CARBON	100K	5%	1/4W	*	1-658-316-21	COVER BOARD			
					(E, EA, MY, SP, HK, TH)						*****
R244	1-249-441-11	CARBON	100K	5%	1/4W						< CONNECTOR >
					(E, EA, MY, SP, HK, TH)						
R245	1-249-441-11	CARBON	100K	5%	1/4W						
					(E, EA, MY, SP, HK, TH)	CN903	1-770-010-21	CONNECTOR, BOARD TO BOARD 4P			
R246	1-249-441-11	CARBON	100K	5%	1/4W	CN905	1-770-010-21	CONNECTOR, BOARD TO BOARD 4P			
					(E, EA, MY, SP, HK, TH)						*****
R247	1-249-441-11	CARBON	100K	5%	1/4W						
					(E, EA, MY, SP, HK, TH)	*	1-658-310-21	FL BOARD			
R251	1-249-429-11	CARBON	10K	5%	1/4W						*****
R252	1-249-430-11	CARBON	12K	5%	1/4W						
R253	1-249-429-11	CARBON	10K	5%	1/4W						
					(E, EA, MY, SP, HK, TH)	*	4-979-799-01	HOLDER (FL)			
R254	1-249-430-11	CARBON	12K	5%	1/4W						< CAPACITOR >
R255	1-249-429-11	CARBON	10K	5%	1/4W						
					(AEP, G, IT, UK)	C551	1-162-282-31	CERAMIC	100PF	10%	50V
R270	1-249-417-11	CARBON	1K	5%	1/4W	C556	1-164-159-11	CERAMIC	0.1uF		50V
R271	1-247-903-00	CARBON	1M	5%	1/4W	C557	1-164-159-11	CERAMIC	0.1uF		50V
R272	1-249-419-11	CARBON	1.5K	5%	1/4W						
											< CONNECTOR >
R273	1-249-429-11	CARBON	10K	5%	1/4W						
R275	1-249-399-11	CARBON	33	5%	1/4W	CN551	1-562-088-00	SOCKET, CONNECTOR 9P			
R277	1-249-429-11	CARBON	10K	5%	1/4W						< FLUORESCENT INDICATOR >
R291	1-249-429-11	CARBON	10K	5%	1/4W						
					(E, EA, MY, SP, HK, TH)	FL501	1-517-367-11	INDICATOR TUBE, FLUORESCENT			
R292	1-249-441-11	CARBON	100K	5%	1/4W						
					(E, EA, MY, SP, HK, TH)						

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
< IC >				C915	1-126-972-11	ELECT 1000uF 20% 35V	
IC551	8-759-261-63	IC M66004M6FP (R)		C916	1-126-972-11	ELECT 1000uF 20% 35V	
< RESISTOR >				C917	1-164-159-11	CERAMIC 0.1uF 50V	
R551	1-249-434-11	CARBON 27K 5% 1/4W		C918	1-164-159-11	CERAMIC 0.1uF 50V	
R555	1-249-417-11	CARBON 1K 5% 1/4W		C919	1-124-472-11	ELECT 470uF 20% 10V	
R556	1-249-417-11	CARBON 1K 5% 1/4W		C920	1-124-472-11	ELECT 470uF 20% 10V	
R557	1-249-417-11	CARBON 1K 5% 1/4W		C921	1-124-122-11	ELECT 100uF 20% 50V	
R558	1-249-417-11	CARBON 1K 5% 1/4W		C922	1-164-159-11	CERAMIC 0.1uF 50V	
*****				C923	1-124-472-11	ELECT 470uF 20% 10V	
*	1-658-311-21	H. P BOARD		C951	1-136-153-00	FILM 0.01uF 5% 50V	
*****				C952	1-136-153-00	FILM 0.01uF 5% 50V	
< CAPACITOR >				C953	1-126-942-61	ELECT 1000uF 20% 16V	
C491	1-162-306-11	CERAMIC 0.01uF 30% 16V		C954	1-164-159-11	CERAMIC 0.1uF 50V	
C492	1-162-306-11	CERAMIC 0.01uF 30% 16V		C955	1-124-442-00	ELECT 330uF 20% 6.3V	
C493	1-164-159-11	CERAMIC 0.1uF 50V		C961	1-124-122-11	ELECT 100uF 20% 50V	
C494	1-164-159-11	CERAMIC 0.1uF 50V		C962	1-124-122-11	ELECT 100uF 20% 50V	
(E, EA, MY, SP, HK, TH)				C963	1-124-907-11	ELECT 10uF 20% 50V	
< CONNECTOR >				C964	1-124-907-11	ELECT 10uF 20% 50V	
* CN511	1-568-828-11	SOCKET, CONNECTOR 9P		C971	1-124-122-11	ELECT 100uF 20% 50V	
< JACK >				C972	1-124-122-11	ELECT 100uF 20% 50V	
J401	1-770-226-11	JACK (LARGE TYPE) (PHONES)		< CONNECTOR >			
J402	1-770-226-11	JACK (LARGE TYPE) (MIX MIC)		CN101	1-770-158-21	HOUSING, CONNECTOR 7P (SYSTEM CONTROL)	
(E, EA, MY, SP, HK, TH)				CN102	1-770-724-11	CONNECTOR, BOARD TO BOARD 9P	
*****				* CN103	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
*	A-4378-845-A	MAIN BOARD, COMPLETE (AEP, G, IT, UK)		* CN104	1-568-824-11	SOCKET, CONNECTOR 5P	
*****				* CN105	1-568-839-11	SOCKET, CONNECTOR 23P	
*	A-4378-834-A	MAIN BOARD, COMPLETE (E, EA, MY, SP, HK, TH)		CN106	1-764-327-11	PIN, CONNECTOR (PCB) (V TYPE) 4P	
*****				CN107	1-764-328-61	PIN, CONNECTOR (PCB) (V TYPE) 5P	
1-533-223-11	HOLDER, FUSE			CN108	1-770-965-21	PIN, CONNECTOR (PCB) (V TYPE) 5P	
* 3-309-144-21	HEAT SINK			CN109	1-770-966-11	PIN, CONNECTOR (PCB) (V TYPE) 6P	
7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			< DIODE >			
< CAPACITOR >				D191	8-719-024-99	DIODE 11ES2-NTA2B	
C191	1-124-442-00	ELECT 330uF 20% 6.3V		D611	8-719-987-63	DIODE 1N4148M	
C621	1-126-963-11	ELECT 4.7uF 20% 50V		D621	8-719-987-63	DIODE 1N4148M	
C901	1-126-138-11	ELECT 4700uF 20% 50V		D622	8-719-987-63	DIODE 1N4148M	
C902	1-126-138-11	ELECT 4700uF 20% 50V		D623	8-719-987-63	DIODE 1N4148M	
C903	1-136-165-00	FILM 0.1uF 5% 50V		D624	8-719-987-63	DIODE 1N4148M	
C904	1-136-165-00	FILM 0.1uF 5% 50V		D901	8-719-510-68	DIODE D5SBA20F01	
C911	1-124-618-11	ELECT 2200uF 20% 35V		D911	8-719-025-03	DIODE RBA-402-SL	
C912	1-124-618-11	ELECT 2200uF 20% 35V		D951	8-719-024-99	DIODE 11ES2-NTA2B	
C913	1-136-165-00	FILM 0.1uF 5% 50V		D952	8-719-024-99	DIODE 11ES2-NTA2B	
C914	1-136-165-00	FILM 0.1uF 5% 50V		D961	8-719-024-99	DIODE 11ES2-NTA2B	
< FUSE >				D962	8-719-024-99	DIODE 11ES2-NTA2B	
△F911	1-532-203-00	FUSE, TIME LAG (2A, 250V)		D963	8-719-934-23	DIODE HZS30-3L	
△F912	1-532-203-00	FUSE, TIME LAG (2A, 250V)		< FUSE >			

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

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
< IC >				R153	1-249-417-11	CARBON 1K 5% 1/4W	
IC101	8-759-000-47	IC MC14051BCP		R154	1-249-425-11	CARBON 4.7K 5% 1/4W	
IC102	8-759-000-47	IC MC14051BCP		R155	1-249-417-11	CARBON 1K 5% 1/4W	
IC103	8-759-000-48	IC MC14052BCP		R156	1-249-417-11	CARBON 1K 5% 1/4W	
IC191	8-759-962-08	IC BA6208		R157	1-249-417-11	CARBON 1K 5% 1/4W	
IC911	8-759-231-55	IC TA7808S		R158	1-249-417-11	CARBON 1K 5% 1/4W	
				R159	1-249-417-11	CARBON 1K 5% 1/4W	
IC912	8-759-245-81	IC TA79008S		R162	1-249-429-11	CARBON 10K 5% 1/4W	
IC913	8-759-231-57	IC TA7810S					
IC951	8-759-158-62	IC TA78057S		R163	1-249-429-11	CARBON 10K 5% 1/4W	
< IC LINK >				R167	1-249-417-11	CARBON 1K 5% 1/4W	
△ICP911	1-532-986-31	LINK, IC (10A)		R168	1-249-417-11	CARBON 1K 5% 1/4W	
△ICP912	1-532-986-31	LINK, IC (10A)		R169	1-249-417-11	CARBON 1K 5% 1/4W	
< JACK >				R611	1-249-417-11	CARBON 1K 5% 1/4W	
J101	1-770-015-11	JACK, PIN 6P(TUNER IN, CD IN, MD/DAT OUT)					
J102	1-770-015-11	JACK, PIN6P(MD/DAT IN, TAPE OUT, TAPE IN)		R621	1-249-429-11	CARBON 10K 5% 1/4W	
J103	1-770-015-11	JACK, PIN 6P		R622	1-249-429-11	CARBON 10K 5% 1/4W	
		(VIDEO2 IN, VIDEO1 OUT, VIDEO1 IN)		R623	1-249-429-11	CARBON 10K 5% 1/4W	
< TRANSISTOR >				R624	1-249-429-11	CARBON 10K 5% 1/4W	
Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE		R625	1-249-441-11	CARBON 100K 5% 1/4W	
Q621	8-729-119-78	TRANSISTOR 2SC2785-HFE		△R911	1-212-881-11	FUSIBLE 100 5% 1/4W F	
Q622	8-729-900-36	TRANSISTOR DTC124ES		△R913	1-212-881-11	FUSIBLE 100 5% 1/4W F	
Q926	8-729-119-76	TRANSISTOR 2SA1175-HFE		△R915	1-212-881-11	FUSIBLE 100 5% 1/4W F	
Q961	8-729-118-00	TRANSISTOR 2SB1116-L		△R916	1-212-881-11	FUSIBLE 100 5% 1/4W F	
< RESISTOR >				△R951	1-212-857-00	FUSIBLE 10 5% 1/4W F	
R101	1-249-417-11	CARBON 1K 5% 1/4W		R961	1-249-429-11	CARBON 10K 5% 1/4W	
R102	1-249-425-11	CARBON 4.7K 5% 1/4W		R962	1-249-397-11	CARBON 22 5% 1/4W	
R103	1-249-417-11	CARBON 1K 5% 1/4W		R971	1-249-413-11	CARBON 470 5% 1/4W	
R104	1-249-425-11	CARBON 4.7K 5% 1/4W		R972	1-249-413-11	CARBON 470 5% 1/4W	
R105	1-249-417-11	CARBON 1K 5% 1/4W		R973	1-249-413-11	CARBON 470 5% 1/4W	
R106	1-249-417-11	CARBON 1K 5% 1/4W		R974	1-249-413-11	CARBON 470 5% 1/4W	
R107	1-249-417-11	CARBON 1K 5% 1/4W		R975	1-249-413-11	CARBON 470 5% 1/4W	
R108	1-249-417-11	CARBON 1K 5% 1/4W		R976	1-249-413-11	CARBON 470 5% 1/4W	
R109	1-249-417-11	CARBON 1K 5% 1/4W		R977	1-249-413-11	CARBON 470 5% 1/4W	
R112	1-249-429-11	CARBON 10K 5% 1/4W		R978	1-249-413-11	CARBON 470 5% 1/4W	
R113	1-249-429-11	CARBON 10K 5% 1/4W		R1191	1-249-417-11	CARBON 1K 5% 1/4W	
R117	1-249-417-11	CARBON 1K 5% 1/4W		R1193	1-249-417-11	CARBON 1K 5% 1/4W	
R118	1-249-417-11	CARBON 1K 5% 1/4W		*****			
R119	1-249-417-11	CARBON 1K 5% 1/4W		*	A-4378-837-A PANEL BOARD, COMPLETE (AEP, G, IT, UK)		
R121	1-249-441-11	CARBON 100K 5% 1/4W			*****		
R122	1-249-441-11	CARBON 100K 5% 1/4W		*	A-4378-829-A PANEL BOARD, COMPLETE (E, EA, MY, SP, HK, TH)		
R123	1-249-441-11	CARBON 100K 5% 1/4W			*****		
R124	1-249-417-11	CARBON 1K 5% 1/4W		< CAPACITOR >			
R125	1-249-417-11	CARBON 1K 5% 1/4W		C400	1-162-306-11	CERAMIC 0.01uF 30% 16V	
R126	1-249-417-11	CARBON 1K 5% 1/4W		C401	1-136-157-00	FILM 0.022uF 5% 50V	
R151	1-249-417-11	CARBON 1K 5% 1/4W		C402	1-136-163-00	FILM 0.068uF 5% 50V	
R152	1-249-425-11	CARBON 4.7K 5% 1/4W		C403	1-136-167-00	FILM 0.15uF 5% 50V	
				C404	1-136-173-00	FILM 0.47uF 5% 50V	
				C411	1-124-907-11	ELECT 10uF 20% 50V	

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Replace only with part number specified.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C414	1-124-907-11	ELECT	10uF 20% 50V			< CONNECTOR >	
C431	1-162-294-31	CERAMIC	0.001uF 10% 50V (E, EA, MY, SP, HK, TH)	* CN501	1-568-839-11	SOCKET, CONNECTOR 23P	
C432	1-126-301-11	ELECT	1uF 20% 50V (E, EA, MY, SP, HK, TH)	* CN502	1-568-834-11	SOCKET, CONNECTOR 15P	
C433	1-162-282-31	CERAMIC	100PF 10% 50V (E, EA, MY, SP, HK, TH)	CN503	1-573-379-11	PIN, CONNECTOR 9P	
				* CN504	1-568-828-11	SOCKET, CONNECTOR 9P	
						< DIODE >	
C434	1-162-282-31	CERAMIC	100PF 10% 50V (E, EA, MY, SP, HK, TH)	D501	8-719-987-63	DIODE 1N4148M	
C435	1-126-301-11	ELECT	1uF 20% 50V (E, EA, MY, SP, HK, TH)	D502	8-719-024-99	DIODE 11ES2-NTA2B	
C436	1-162-282-31	CERAMIC	100PF 10% 50V (E, EA, MY, SP, HK, TH)	D504	8-719-987-63	DIODE 1N4148M	
C437	1-164-159-11	CERAMIC	0.1uF 50V (E, EA, MY, SP, HK, TH)	D505	8-719-987-63	DIODE 1N4148M	
C438	1-164-159-11	CERAMIC	0.1uF 50V (E, EA, MY, SP, HK, TH)	D506	8-719-987-63	DIODE 1N4148M	
C439	1-162-282-31	CERAMIC	100PF 10% 50V (E, EA, MY, SP, HK, TH)	D507	8-719-987-63	DIODE 1N4148M (E, EA, MY, SP, HK, TH)	
C440	1-162-282-31	CERAMIC	100PF 10% 50V (E, EA, MY, SP, HK, TH)	D531	8-719-046-44	DIODE SEL5221S (ON/STANDBY)	
C441	1-126-301-11	ELECT	1uF 20% 50V (E, EA, MY, SP, HK, TH)	D532	8-719-046-70	DIODE SEL5620C (STADIUM)	
C442	1-124-443-00	ELECT	100uF 20% 10V (E, EA, MY, SP, HK, TH)	D533	8-719-046-70	DIODE SEL5620C (LIVE)	
C443	1-124-443-00	ELECT	100uF 20% 10V (E, EA, MY, SP, HK, TH)	D534	8-719-046-70	DIODE SEL5620C (DANCE)	
C450	1-162-306-11	CERAMIC	0.01uF 30% 16V	D535	8-719-046-70	DIODE SEL5620C (HALL)	
C451	1-136-157-00	FILM	0.022uF 5% 50V	D536	8-719-046-70	DIODE SEL5620C (PHANTOM)	
C452	1-136-163-00	FILM	0.068uF 5% 50V	D537	8-719-046-70	DIODE SEL5620C (NORMAL)	
C453	1-136-167-00	FILM	0.15uF 5% 50V	D538	8-719-046-70	DIODE SEL5620C (WIDE)	
C454	1-136-173-00	FILM	0.47uF 5% 50V	D539	8-719-046-70	DIODE SEL5620C (3CH LOGIC)	
C461	1-124-907-11	ELECT	10uF 20% 50V	D540	8-719-301-49	DIODE SEL2810A (DSP MODE)	
C464	1-124-907-11	ELECT	10uF 20% 50V	D541	8-719-301-49	DIODE SEL2810A (DOLBY SURROUND)	
C501	1-164-159-11	CERAMIC	0.1uF 50V	D542	8-719-046-44	DIODE SEL5221S (SOURCE DIRECT)	
C502	1-124-442-00	ELECT	330uF 20% 6.3V	D543	8-719-046-44	DIODE SEL5221S (-20dB MUTE)	
C503	1-164-159-11	CERAMIC	0.1uF 50V	D544	8-719-046-44	DIODE SEL5221S (KARAOKE PON)	(E, EA, MY, SP, HK, TH)
C504	1-162-306-11	CERAMIC	0.01uF 30% 16V	D551	8-719-010-33	DIODE UZ-4.7BSB	
C505	1-162-306-11	CERAMIC	0.01uF 30% 16V			< IC >	
C506	1-124-443-00	ELECT	100uF 20% 10V	IC401	8-759-634-50	IC M5218AL	
C507	1-162-306-11	CERAMIC	0.01uF 30% 16V	IC431	8-759-634-50	IC M5218AL (E, EA, MY, SP, HK, TH)	
C508	1-162-306-11	CERAMIC	0.01uF 30% 16V	IC501	8-759-386-86	IC M37471M4-S3	
C509	1-162-306-11	CERAMIC	0.01uF 30% 16V (E, EA, MY, SP, HK, TH)	IC502	8-759-165-80	IC PST600C-T	
C510	1-162-286-31	CERAMIC	220PF 10% 50V	IC503	8-759-917-43	IC SN74HC138AN	
C511	1-162-306-11	CERAMIC	0.01uF 30% 16V (E, EA, MY, SP, HK, TH)	IC504	8-749-920-83	IC GP1U52XB (R)	
C552	1-164-159-11	CERAMIC	0.1uF 50V			< TRANSISTOR >	
C553	1-164-159-11	CERAMIC	0.1uF 50V	Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C554	1-164-159-11	CERAMIC	0.1uF 50V	Q531	8-729-900-63	TRANSISTOR DTA124ES	
C555	1-164-159-11	CERAMIC	0.1uF 50V	Q532	8-729-900-36	TRANSISTOR DTC124ES	
				Q533	8-729-900-36	TRANSISTOR DTC124ES	
				Q534	8-729-900-36	TRANSISTOR DTC124ES	
				Q535	8-729-900-36	TRANSISTOR DTC124ES	
				Q536	8-729-900-36	TRANSISTOR DTC124ES (E, EA, MY, SP, HK, TH)	
				Q537	8-729-900-36	TRANSISTOR DTC124ES	
				Q538	8-729-900-36	TRANSISTOR DTC124ES	
				Q539	8-729-900-36	TRANSISTOR DTC124ES	

PANEL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< RESISTOR >							
R402	1-249-409-11	CARBON	220 5% 1/4W	R513	1-249-417-11	CARBON	1K 5% 1/4W
R403	1-249-423-11	CARBON	3.3K 5% 1/4W	R514	1-249-418-11	CARBON	1.2K 5% 1/4W
R404	1-249-417-11	CARBON	1K 5% 1/4W	R515	1-249-418-11	CARBON	1.2K 5% 1/4W
R405	1-247-903-00	CARBON	1M 5% 1/4W	R516	1-249-419-11	CARBON	1.5K 5% 1/4W
R406	1-247-903-00	CARBON	1M 5% 1/4W	R517	1-249-427-11	CARBON	6.8K 5% 1/4W
R411	1-249-441-11	CARBON	100K 5% 1/4W	R518	1-249-423-11	CARBON	3.3K 5% 1/4W (E, EA, MY, SP, HK, TH)
R412	1-249-429-11	CARBON	10K 5% 1/4W	R522	1-249-417-11	CARBON	1K 5% 1/4W
R413	1-249-422-11	CARBON	2.7K 5% 1/4W	R523	1-249-417-11	CARBON	1K 5% 1/4W
R431	1-249-441-11	CARBON	100K 5% 1/4W (E, EA, MY, SP, HK, TH)	R531	1-249-411-11	CARBON	330 5% 1/4W
R432	1-249-417-11	CARBON	1K 5% 1/4W (E, EA, MY, SP, HK, TH)	R532	1-249-403-11	CARBON	68 5% 1/4W
R433	1-249-431-11	CARBON	15K 5% 1/4W (E, EA, MY, SP, HK, TH)	R534	1-249-411-11	CARBON	330 5% 1/4W
R434	1-249-441-11	CARBON	100K 5% 1/4W (E, EA, MY, SP, HK, TH)	R535	1-249-411-11	CARBON	330 5% 1/4W
R435	1-249-417-11	CARBON	1K 5% 1/4W (E, EA, MY, SP, HK, TH)	R536	1-249-411-11	CARBON	330 5% 1/4W (E, EA, MY, SP, HK, TH)
R436	1-249-435-11	CARBON	33K 5% 1/4W (E, EA, MY, SP, HK, TH)	R537	1-249-417-11	CARBON	1K 5% 1/4W
R437	1-249-441-11	CARBON	100K 5% 1/4W (E, EA, MY, SP, HK, TH)	R538	1-249-417-11	CARBON	1K 5% 1/4W
R438	1-249-441-11	CARBON	100K 5% 1/4W (E, EA, MY, SP, HK, TH)	R539	1-249-417-11	CARBON	1K 5% 1/4W
R439	1-249-421-11	CARBON	2.2K 5% 1/4W (E, EA, MY, SP, HK, TH)	R540	1-249-417-11	CARBON	1K 5% 1/4W
R440	1-247-807-31	CARBON	100 5% 1/4W (E, EA, MY, SP, HK, TH)	R541	1-249-425-11	CARBON	4.7K 5% 1/4W
R441	1-247-807-31	CARBON	100 5% 1/4W (E, EA, MY, SP, HK, TH)	R542	1-249-417-11	CARBON	1K 5% 1/4W
R452	1-249-409-11	CARBON	220 5% 1/4W	R543	1-249-417-11	CARBON	1K 5% 1/4W
R453	1-249-423-11	CARBON	3.3K 5% 1/4W	R544	1-249-417-11	CARBON	1K 5% 1/4W
R454	1-249-417-11	CARBON	1K 5% 1/4W	R545	1-249-425-11	CARBON	4.7K 5% 1/4W
R455	1-247-903-00	CARBON	1M 5% 1/4W	R546	1-249-417-11	CARBON	1K 5% 1/4W
R456	1-247-903-00	CARBON	1M 5% 1/4W	R547	1-249-417-11	CARBON	1K 5% 1/4W
R461	1-249-441-11	CARBON	100K 5% 1/4W	R548	1-249-417-11	CARBON	1K 5% 1/4W
R462	1-249-429-11	CARBON	10K 5% 1/4W	R552	1-249-409-11	CARBON	220 5% 1/4W
R463	1-249-422-11	CARBON	2.7K 5% 1/4W	R553	1-249-409-11	CARBON	220 5% 1/4W
R501	1-249-429-11	CARBON	10K 5% 1/4W	R554	1-249-429-11	CARBON	10K 5% 1/4W
R502	1-249-429-11	CARBON	10K 5% 1/4W	< VARIABLE RESISTOR >			
R503	1-249-429-11	CARBON	10K 5% 1/4W	RV401	1-223-810-11	RES, VAR, CARBON 10K/10K (TREBLE)	
R504	1-249-417-11	CARBON	1K 5% 1/4W	RV402	1-223-810-11	RES, VAR, CARBON 10K/10K (BASS)	
R505	1-249-441-11	CARBON	100K 5% 1/4W	RV431	1-223-974-11	RES, VAR, CARBON 50K (MIC LEVEL)	
R506	1-249-417-11	CARBON	1K 5% 1/4W (E, EA, MY, SP, HK, TH)	(E, EA, MY, SP, HK, TH)			
R507	1-249-429-11	CARBON	10K 5% 1/4W	< SWITCH >			
R508	1-249-417-11	CARBON	1K 5% 1/4W	S501	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)	
R509	1-249-417-11	CARBON	1K 5% 1/4W	S502	1-554-303-21	SWITCH, TACTILE (AUDIO)	
R510	1-249-411-11	CARBON	330 5% 1/4W	S503	1-554-303-21	SWITCH, TACTILE (VIDEO)	
R511	1-249-429-11	CARBON	10K 5% 1/4W	S504	1-554-303-21	SWITCH, TACTILE (DSP MODE)	
R512	1-249-431-11	CARBON	15K 5% 1/4W	S505	1-554-303-21	SWITCH, TACTILE (DOLBY SURROUND)	
				S506	1-554-303-21	SWITCH, TACTILE (SOURCE DIRECT)	
				S507	1-554-303-21	SWITCH, TACTILE (-20dB MUTING)	
				S508	1-554-303-21	SWITCH, TACTILE (KARAOKE PON)	
				(E, EA, MY, SP, HK, TH)			
				< VIBRATOR >			
				X501	1-579-125-11	VIBRATOR, CERAMIC (8MHz)	

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*****				L751	1-420-872-00	COIL, AIR-CORE	
*	A-4378-847-A	SP BOARD, COMPLETE (AEP, G, IT, UK)	*****	L801	1-420-872-00	COIL, AIR-CORE	
*	A-4378-836-A	SP BOARD, COMPLETE (E, EA, MY, SP, HK, TH)	*****	L851	1-420-872-00	COIL, AIR-CORE	
< CAPACITOR >				< TRANSISTOR >			
C180	1-124-443-00	ELECT	100uF 20% 10V	Q181	8-729-119-78	TRANSISTOR	2SC2785-HFE
C181	1-124-907-11	ELECT	10uF 20% 50V	Q182	8-729-119-78	TRANSISTOR	2SC2785-HFE
C182	1-124-907-11	ELECT	10uF 20% 50V	Q183	8-729-119-78	TRANSISTOR	2SC2785-HFE
C183	1-124-907-11	ELECT	10uF 20% 50V	Q184	8-729-119-78	TRANSISTOR	2SC2785-HFE
C184	1-126-941-11	ELECT	470uF 20% 16V	Q185	8-729-119-78	TRANSISTOR	2SC2785-HFE
C185	1-126-941-11	ELECT	470uF 20% 16V	Q186	8-729-119-78	TRANSISTOR	2SC2785-HFE
C631	1-124-907-11	ELECT	10uF 20% 50V	Q631	8-729-900-63	TRANSISTOR	DTA124ES
C891	1-136-153-00	FILM	0.01uF 5% 50V	Q632	8-729-119-78	TRANSISTOR	2SC2785-HFE
C892	1-136-153-00	FILM	0.01uF 5% 50V (AEP, G, IT, UK)	Q633	8-729-118-00	TRANSISTOR	2SB1116-L
C893	1-136-153-00	FILM	0.01uF 5% 50V (AEP, G, IT, UK)	Q634	8-729-118-00	TRANSISTOR	2SB1116-L
C894	1-136-153-00	FILM	0.01uF 5% 50V (AEP, G, IT, UK)	< RESISTOR >			
C895	1-162-306-11	CERAMIC	0.01uF 30% 16V	R181	1-247-804-11	CARBON	75 5% 1/4W
C896	1-162-306-11	CERAMIC	0.01uF 30% 16V	R182	1-247-804-11	CARBON	75 5% 1/4W
C897	1-162-306-11	CERAMIC	0.01uF 30% 16V	R183	1-249-409-11	CARBON	220 5% 1/4W
C898	1-162-306-11	CERAMIC	0.01uF 30% 16V	R184	1-249-433-11	CARBON	22K 5% 1/4W
< CONNECTOR >				R185	1-249-429-11	CARBON	10K 5% 1/4W
* CN891	1-564-521-11	PLUG, CONNECTOR 6P		R186	1-249-411-11	CARBON	330 5% 1/4W
* CN892	1-564-521-11	PLUG, CONNECTOR 6P		R187	1-249-421-11	CARBON	2.2K 5% 1/4W
* CN893	1-564-518-11	PLUG, CONNECTOR 3P		R188	1-249-418-11	CARBON	1.2K 5% 1/4W
* CN894	1-568-848-11	SOCKET, CONNECTOR 5P		R189	1-249-417-11	CARBON	1K 5% 1/4W
< DIODE >				R190	1-249-409-11	CARBON	220 5% 1/4W
D631	8-719-987-63	DIODE	1N4148M	R191	1-247-804-11	CARBON	75 5% 1/4W
D632	8-719-987-63	DIODE	1N4148M	R192	1-247-804-11	CARBON	75 5% 1/4W
D633	8-719-987-63	DIODE	1N4148M	R193	1-249-413-11	CARBON	470 5% 1/4W
D634	8-719-987-63	DIODE	1N4148M	R194	1-249-413-11	CARBON	470 5% 1/4W
< IC >				R195	1-249-441-11	CARBON	100K 5% 1/4W
IC181	8-759-140-53	IC	uPD4053BC	R196	1-249-441-11	CARBON	100K 5% 1/4W
< JACK >				R197	1-249-417-11	CARBON	1K 5% 1/4W
J801	1-569-662-11	JACK, PIN 1P (SUPER WOOFER)		R198	1-249-417-11	CARBON	1K 5% 1/4W
J802	1-565-934-11	JACK, PIN 2P (VIDEO2 IN, VIDEO1 OUT)		R631	1-249-433-11	CARBON	22K 5% 1/4W
J803	1-565-934-11	JACK, PIN 2P (VIDEO1 IN, MONITOR OUT)		R632	1-249-433-11	CARBON	22K 5% 1/4W
< COIL >				R633	1-249-441-11	CARBON	100K 5% 1/4W
L181	1-408-405-00	INDUCTOR	4.7uH	R634	1-249-441-11	CARBON	100K 5% 1/4W
L701	1-420-872-00	COIL, AIR-CORE		R635	1-249-441-11	CARBON	100K 5% 1/4W
				R636	1-249-429-11	CARBON	10K 5% 1/4W
				R637	1-249-429-11	CARBON	10K 5% 1/4W
				R638	1-260-096-11	CARBON	560 5% 1/2W
				R639	1-260-096-11	CARBON	560 5% 1/2W
				R640	1-260-096-11	CARBON	560 5% 1/2W
				R641	1-260-096-11	CARBON	560 5% 1/2W
				R720	1-260-076-11	CARBON	10 5% 1/2W
				R770	1-260-076-11	CARBON	10 5% 1/2W
				R820	1-260-076-11	CARBON	10 5% 1/2W
				R821	1-249-437-11	CARBON	47K 5% 1/4W
				R841	1-249-421-11	CARBON	2.2K 5% 1/4W

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R870	1-260-076-11	CARBON	10	5%	1/2W	R429	1-249-411-11	CARBON	330	5%	1/4W
R871	1-249-437-11	CARBON	47K	5%	1/4W	R471	1-249-427-11	CARBON	6.8K	5%	1/4W
R891	1-260-076-11	CARBON	10	5%	1/2W (AEP, G, IT, UK)	R472	1-249-415-11	CARBON	680	5%	1/4W
R892	1-260-076-11	CARBON	10	5%	1/2W (AEP, G, IT, UK)	R473	1-249-417-11	CARBON	1K	5%	1/4W
R893	1-260-076-11	CARBON	10	5%	1/2W (AEP, G, IT, UK)	R475	1-249-426-11	CARBON	5.6K	5%	1/4W
R894	1-260-076-11	CARBON	10	5%	1/2W (AEP, G, IT, UK)	R476	1-249-415-11	CARBON	680	5%	1/4W
R895	1-249-437-11	CARBON	47K	5%	1/4W	R477	1-249-417-11	CARBON	1K	5%	1/4W
< TERMINAL >						R479	1-249-441-11	CARBON	100K	5%	1/4W
TM801	1-537-822-21	TERMINAL BOARD (SP) (FRONT SPEAKER)				< VARIABLE RESISTOR >					
TM802	1-537-336-41	TERMINAL BOARD (SP) (REAR SPEAKER, CENTER SPEAKER)				RV403	1-223-809-11	RES, VAR, CARBON 100KX4 (VOLUME)			
*****						< TRANSFORMER >					
* 1-658-315-21	TRANS BOARD	*****				△T901	1-429-313-11	TRANSFORMER, POWER (E, EA, MY, SP, HK, TH)			
< CONNECTOR >						△T901	1-429-314-11	TRANSFORMER, POWER (AEP, G, IT, UK)			
CN904	1-770-011-41	CONNECTOR, BOARD TO BOARD 4P				*****					
CN911	1-764-327-11	PIN, CONNECTOR (PCB) (V TYPE) 4P				MISCELLANEOUS					
CN912	1-764-328-61	PIN, CONNECTOR (PCB) (V TYPE) 5P				*****					
*****						15	1-773-038-11	WIRE (FLAT TYPE) (17 CORE)			
* 1-658-312-21	VOL BOARD	*****				24	1-769-910-11	WIRE (FLAT TYPE) (9 CORE)			
< CAPACITOR >						25	1-765-332-11	WIRE (FLAT TYPE) (15 CORE)			
C421	1-164-159-11	CERAMIC	0.1uF	50V		26	1-776-933-11	WIRE (FLAT TYPE) (23 CORE)			
< CONNECTOR >						57	1-769-940-11	WIRE (FLAT TYPE) (11 CORE)			
* CN401	1-568-836-11	SOCKET, CONNECTOR 17P				60	1-769-848-11	WIRE (FLAT TYPE) (5 CORE)			
< TRANSISTOR >						△64	1-569-007-11	ADAPTER, CONVERSION 2P (E)			
Q221	8-729-141-30	TRANSISTOR	2SC3623A-LK			△64	1-569-008-11	ADAPTER, CONVERSION 2P (EA, MY, SP)			
Q222	8-729-141-30	TRANSISTOR	2SC3623A-LK			△64	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)			
Q223	8-729-141-30	TRANSISTOR	2SC3623A-LK			△CNP901	1-575-651-11	CORD, POWER (AEP, G, IT, EA, MY, SP, HK)			
Q224	8-729-141-30	TRANSISTOR	2SC3623A-LK			△CNP901	1-575-653-11	CORD, POWER (E)			
< RESISTOR >						△CNP901	1-751-326-31	CORD, POWER (TH)			
R421	1-249-427-11	CARBON	6.8K	5%	1/4W	△CNP901	1-751-520-21	CORD, POWER (UK)			
R422	1-249-415-11	CARBON	680	5%	1/4W	△F901	1-532-259-00	FUSE TIME LAG (1.6A, 250V) (AEP, UK, G, IT, E, EA, MY, SP, HK)			
R423	1-249-417-11	CARBON	1K	5%	1/4W	△F902	1-532-237-00	FUSE TIME LAG (3.15A, 250V) (E, EA, MY, SP, HK)			
R425	1-249-426-11	CARBON	5.6K	5%	1/4W	△F911	1-532-203-00	FUSE TIME LAG (2A, 250V)			
R426	1-249-415-11	CARBON	680	5%	1/4W	△F912	1-532-203-00	FUSE TIME LAG (2A, 250V)			
R427	1-249-417-11	CARBON	1K	5%	1/4W	FL501	1-517-367-11	INDICATOR TUBE, FLUORESCENT			
*****						IC913	8-759-231-57	IC TA7810S			
ACCESSORIES & PACKING MATERIALS						M801	1-698-748-11	MOTOR, FAN (DC)			
*****						△T901	1-429-313-11	TRANSFORMER, POWER (E, EA, MY, SP, HK, TH)			
* 4-980-537-01	CUSHION (UPPER)					△T901	1-429-314-11	TRANSFORMER, POWER (AEP, UK, G, IT)			
* 4-980-538-01	CUSHION (LOWER)					*****					

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

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>

		HARDWARE LIST	

#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	

