

TA-H4700

SERVICE MANUAL

*AEP Model
E Model
Australian Model
Tourist Model*



This set is the Amplifier section in FH-E858, MHC-4700.

This photo is AEP, G and IT model.

SPECIFICATIONS

Continuous RMS power output

For satellite speaker:
26 + 26 watts (8 ohms at 1 kHz, DIN)
31 + 31 watts (8 ohms at 1 kHz, 5% THD)
For bass speaker:
29 + 29 watts (6 ohms at 110 Hz, DIN)
34 + 34 watts (6 ohms at 110 Hz, 5% THD)

Music power output (for AEP, G, IT model)

For satellite speaker:
45 + 45 watts (8 ohms at 1 kHz, 10% THD)
For bass speaker:
50 + 50 watts (6 ohms at 110 Hz, 10% THD)

Peak music power output (for E, AUS, EA, TR model)

Inputs
620 watts (4 speakers driven)
MIX MIC (minijack):
sensitivity 1 mV,
impedance 600 ohms
ADAPTOR (pin jacks)
(for E, EA, TR model):
sensitivity 300 mV,
impedance 47 kilohms

Outputs

HEADPHONES

(stereo minijack):
accepts headphones of 8 ohms or more.

ADAPTOR (pin jacks)

(for E, EA, TR model):
output level 300 mV
impedance 10 kilohms

SPEAKER (SATELLITE):
accepts speakers of 8 to 16 ohms.

SPEAKER (BASS):
accepts speaker of 6 to 16 ohms.

Design and specifications subject to change without notice.

- G : Germany model
- IT : Italian model
- AUS: Australian model
- EA : Saudi Arabia model
- TR : Tourist model

SAFETY-RELATED COMPONENT WARNING!!

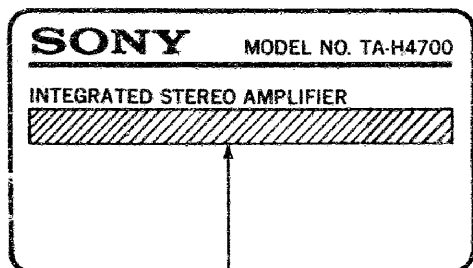
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

INTEGRATED STEREO AMPLIFIER
SONY®

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MODEL IDENTIFICATION

—Model Number Label—



AEP model : AC: 220—230V~50/60Hz
 IT model : AC: 220—230V~50Hz
 G model : SYSTEM MHC-4700
 AC: 220—230V~50Hz
 AUS model : AC: 240V~50Hz 160W
 E, EA, TR model: AC: 120/220/240V~50/60Hz 160W

• IT : Italian model
 G : Germany model
 AUS: Australian model
 EA : Saudi Arabia model
 TR : Tourist model

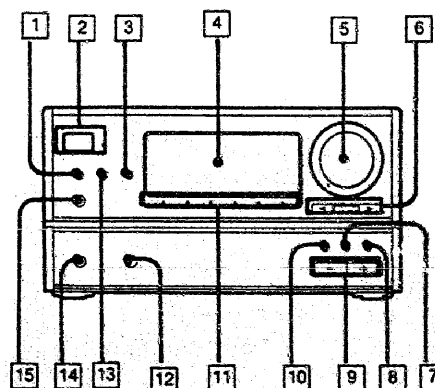
<u>Section</u>	<u>Title</u>	<u>Page</u>
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SECTION 1
GENERAL

1-1. PARTS IDENTIFICATION

This section is extracted from instruction manual.

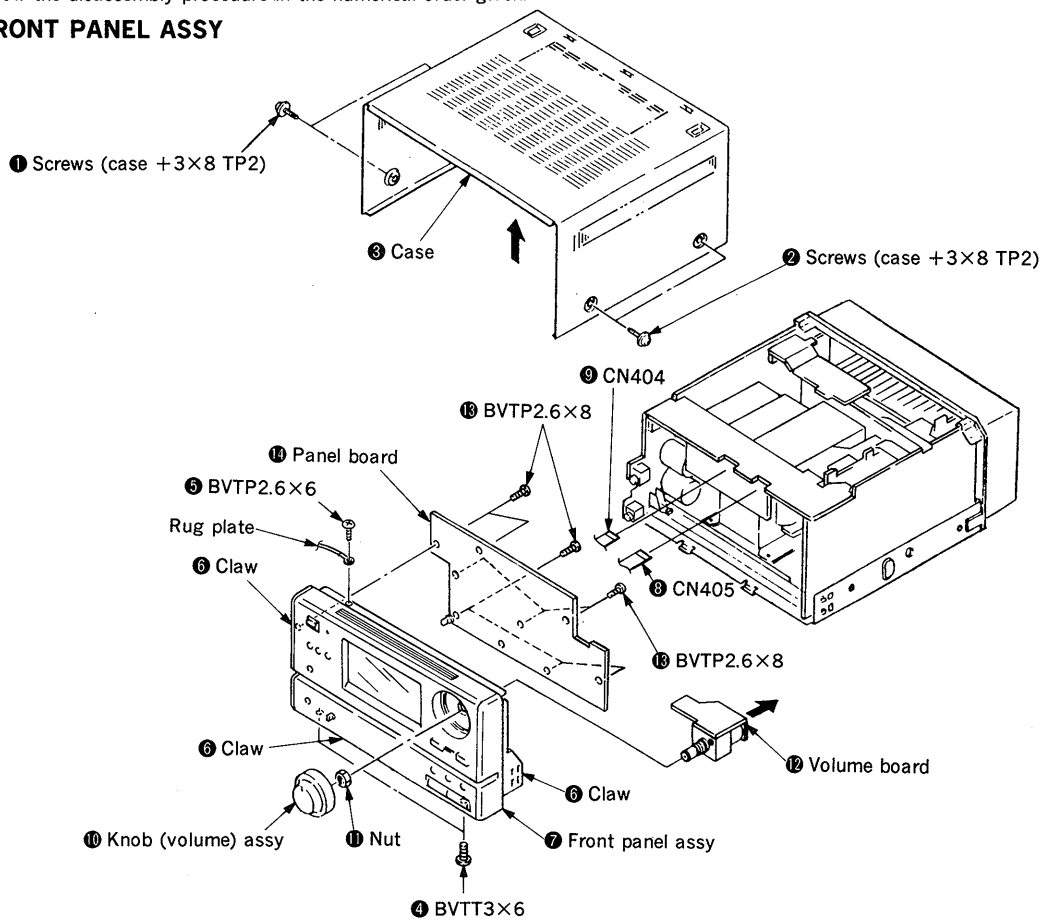
- 1 WAKE UP VOL SET button and indicator
- 2 SYSTEM POWER switch and STANDBY indicator
The indicator remains lit as long as the AC power cord is connected to a wall outlet.
- 3 DISPLAY button
- 4 Display window
- 5 VOLUME control
- 6 FUNCTION <> buttons
- 7 T.P.O. button
- 8 DIRECT button
- 9 TOTAL EFFECT CONTROL -/+ buttons
- 10 MUSIC button
- 11 Function indicators
- 12 MIC (microphone) LEVEL control
- 13 (For MHC-4700) MUTE button and indicator
(For FH-E858) KARAOKE P.O.N. button and indicator
- 14 MIX MIC (microphone) input jack
- 15 HEADPHONES jack (stereo minijack)



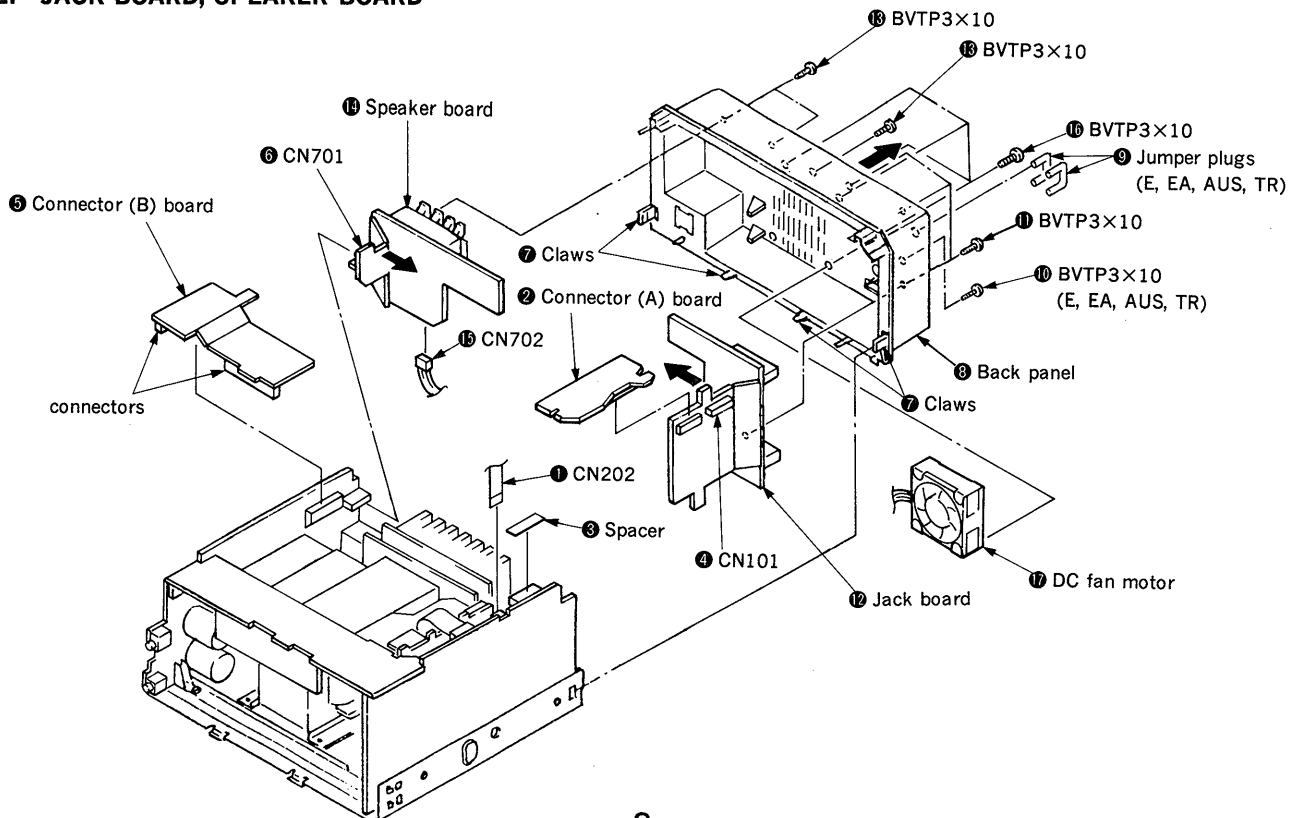
SECTION 2 DISASSEMBLY

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

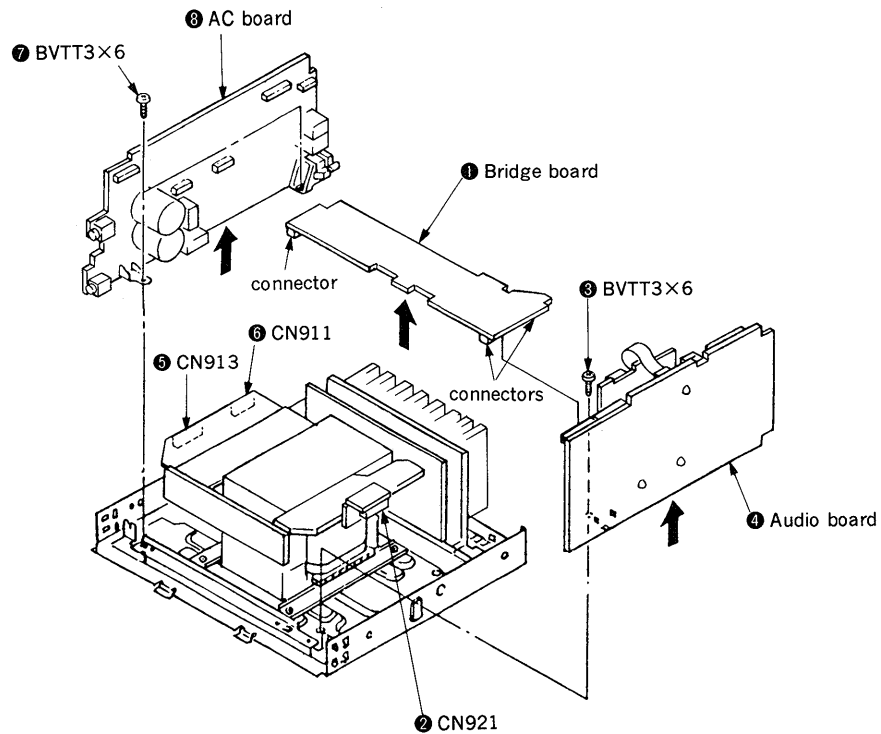
2-1. FRONT PANEL ASSY



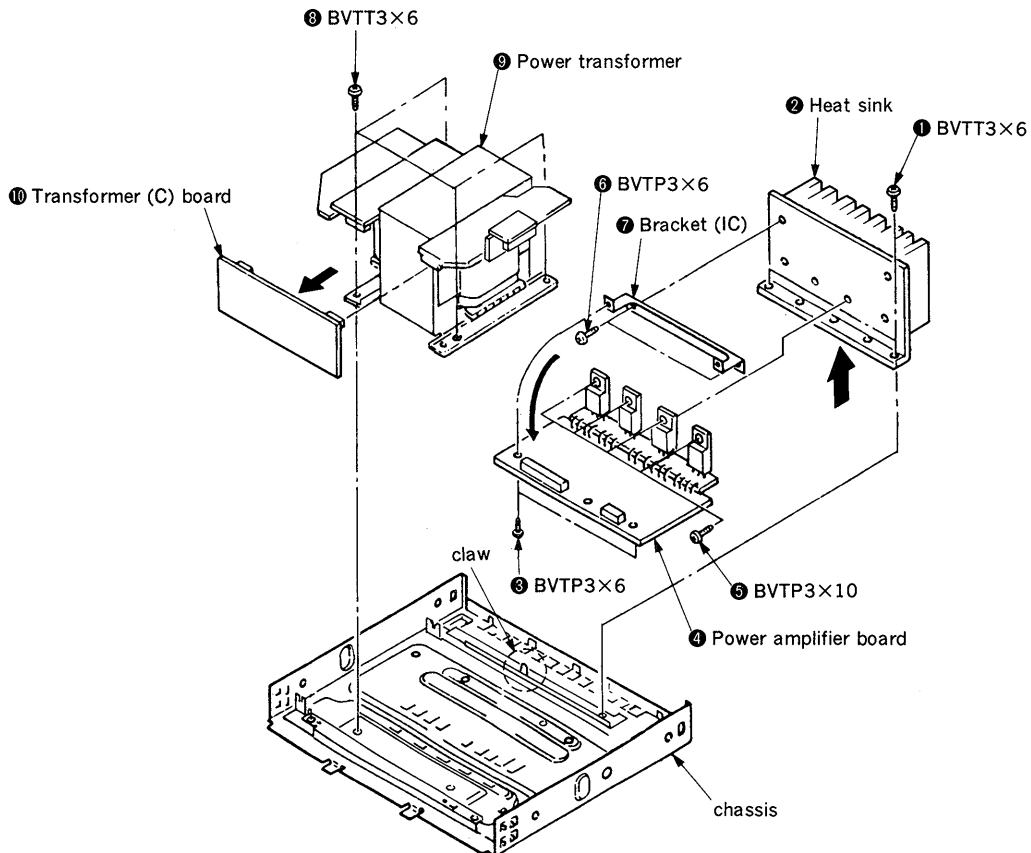
2-2. JACK BOARD, SPEAKER BOARD



2-3. AUDIO BOARD, AC BOARD

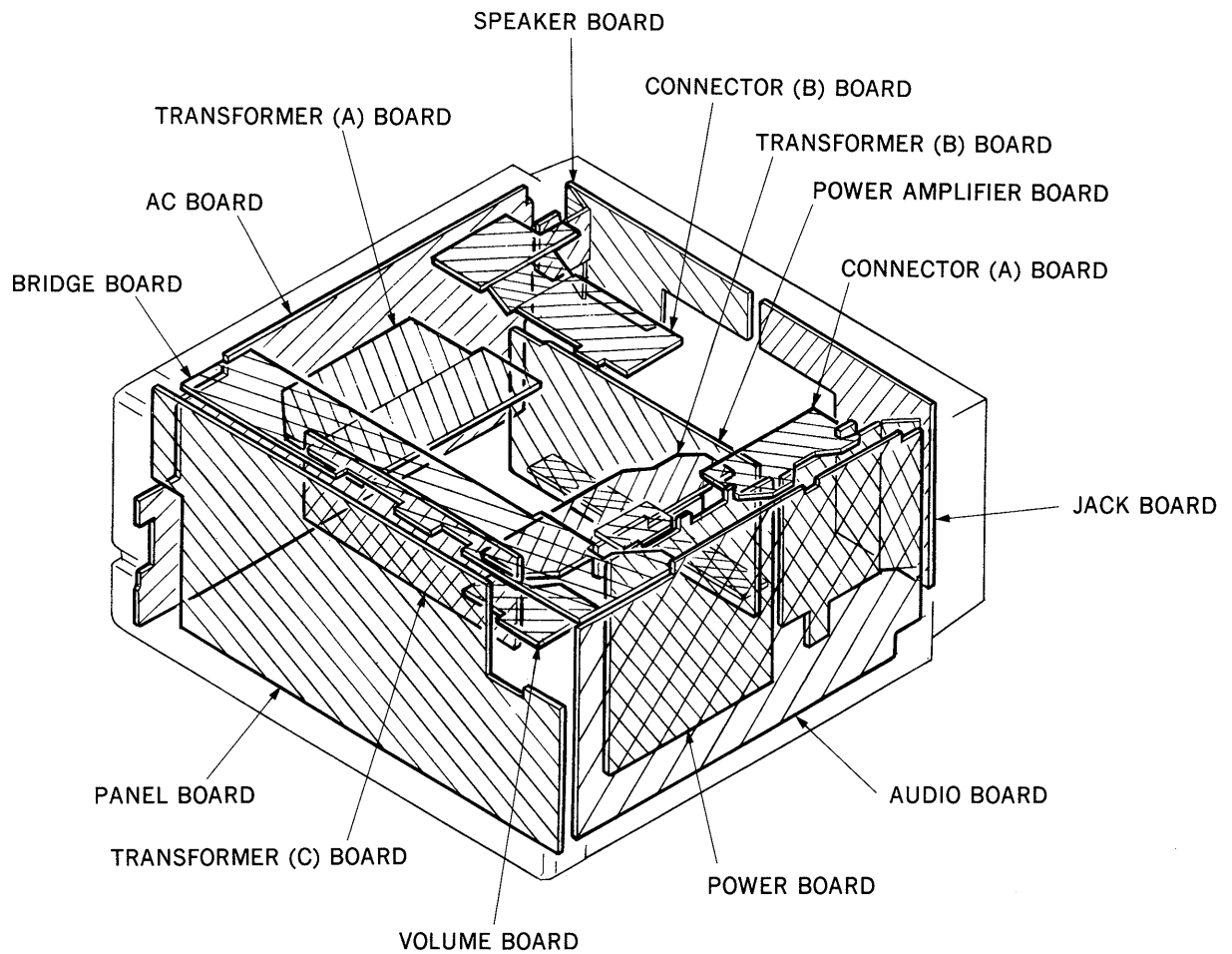


2-4. POWER AMPLIFIER BOARD, POWER TRANSFORMER

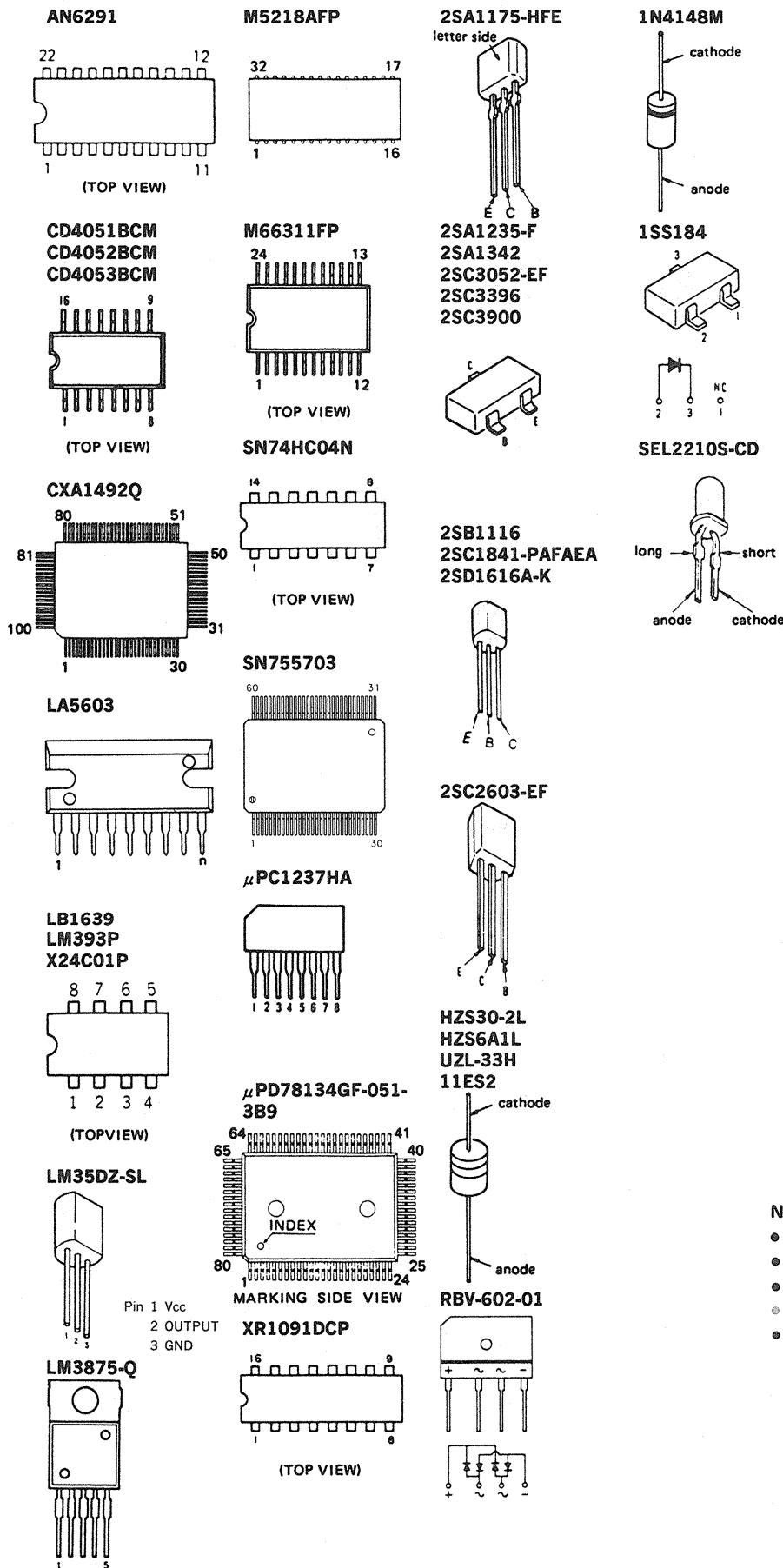


SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. SEMICONDUCTOR LEAD LAYOUTS



• Semiconductor Location

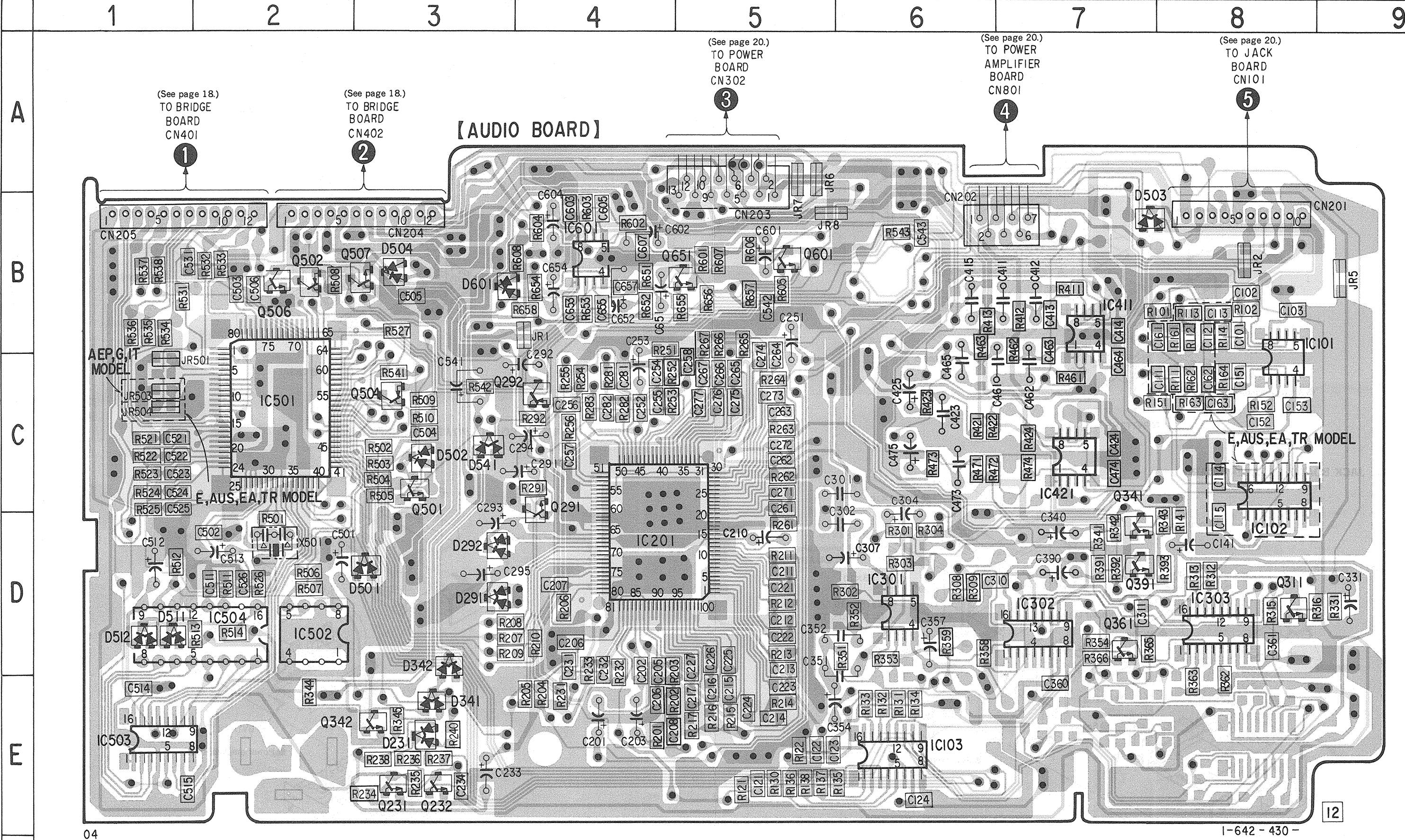
Ref. No.	Location
D231	E-3
D291	D-3
D292	D-3
D341	E-3
D342	D-3
D501	D-3
D502	C-3
D503	B-7
D504	B-3
D511	D-1
D512	D-1
D541	C-3
D601	B-3
IC101	B-8
IC102(*1)	C-8
IC103	E-6
IC201	D-4
IC301	D-6
IC302	D-7
IC303	D-8
IC411	B-7
IC421	C-7
IC501	C-2
IC502	D-2
IC503	E-1
IC504	D-2
IC601	B-4
Q231	E-3
Q232	E-3
Q291	C-4
Q292	C-4
Q311	D-8
Q341	D-7
Q342	E-3
Q361	D-7
Q391	D-7
Q501	C-3
Q502	B-2
Q504	C-3
Q506	B-2
Q507	B-3
Q601	B-5
Q651	B-5

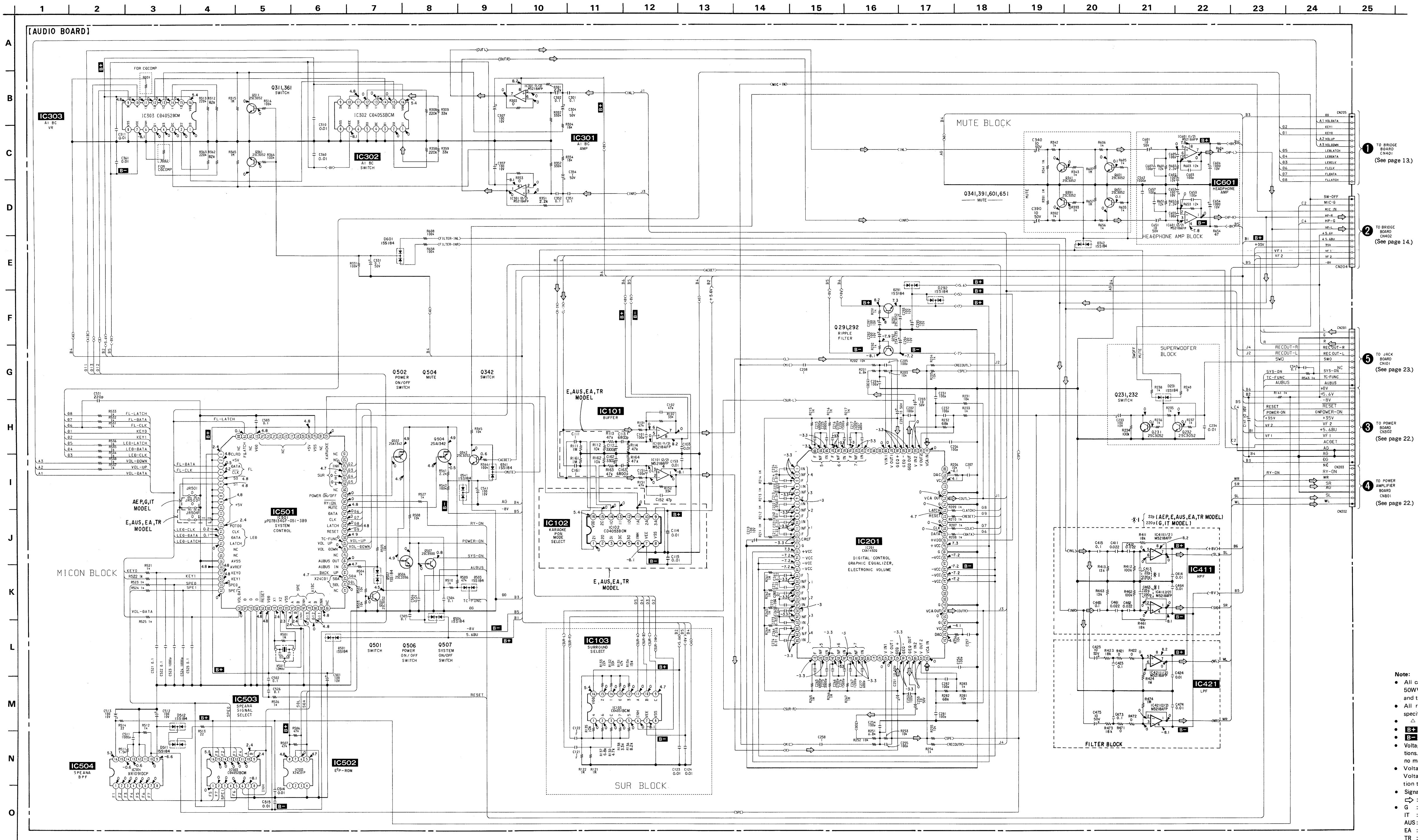
*1: Use on E, Australian, Saudi Arabia and Tourist model.

Note:

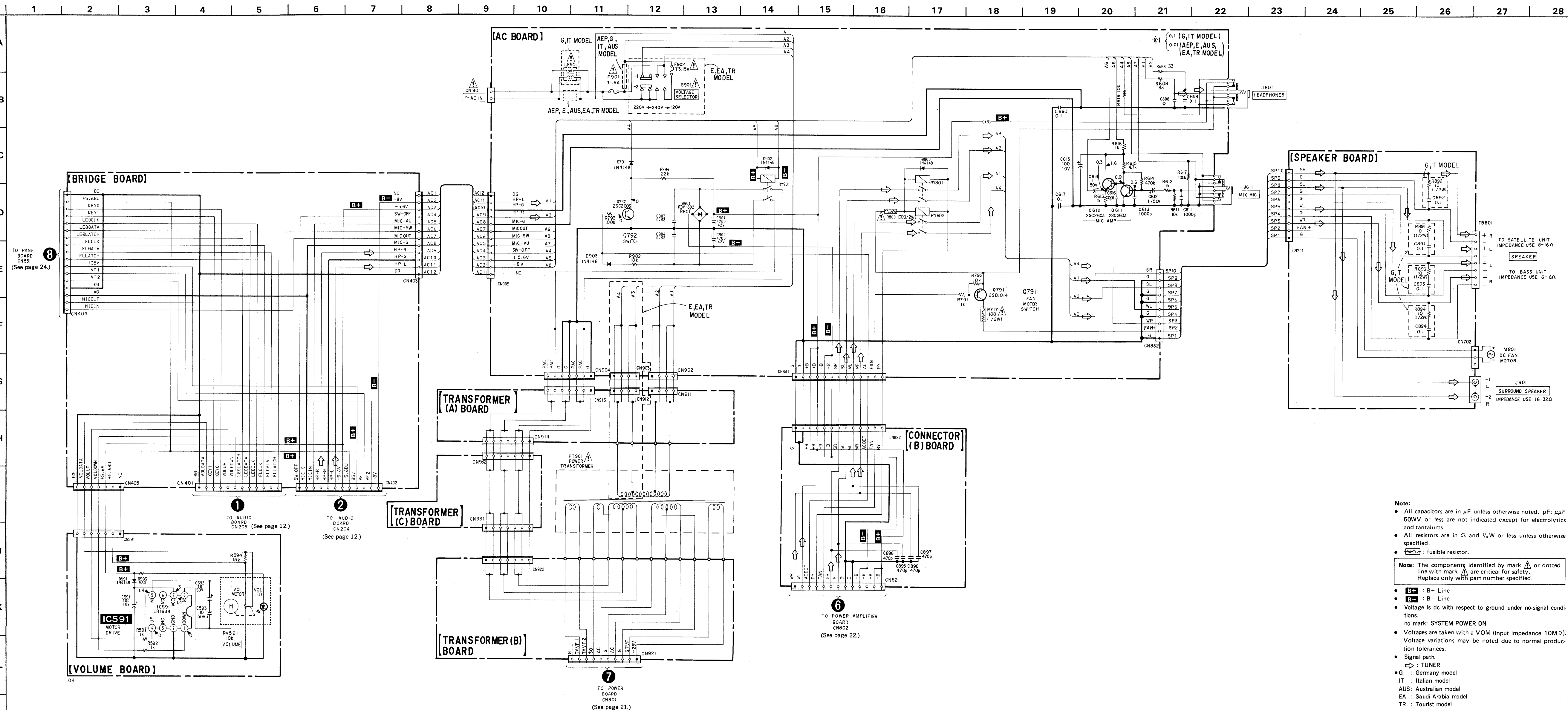
- : parts extracted from the component side.
- : Through hole.
- ▨ : Pattern on the side which is seen.
- ▤ : Pattern of the rear side
- G : Germany model
- IT : Italian model
- AUS : Australian model
- EA : Saudi Arabia model
- TR : Tourist model

3-3. PRINTED WIRING BOARD—AUDIO SECTION—

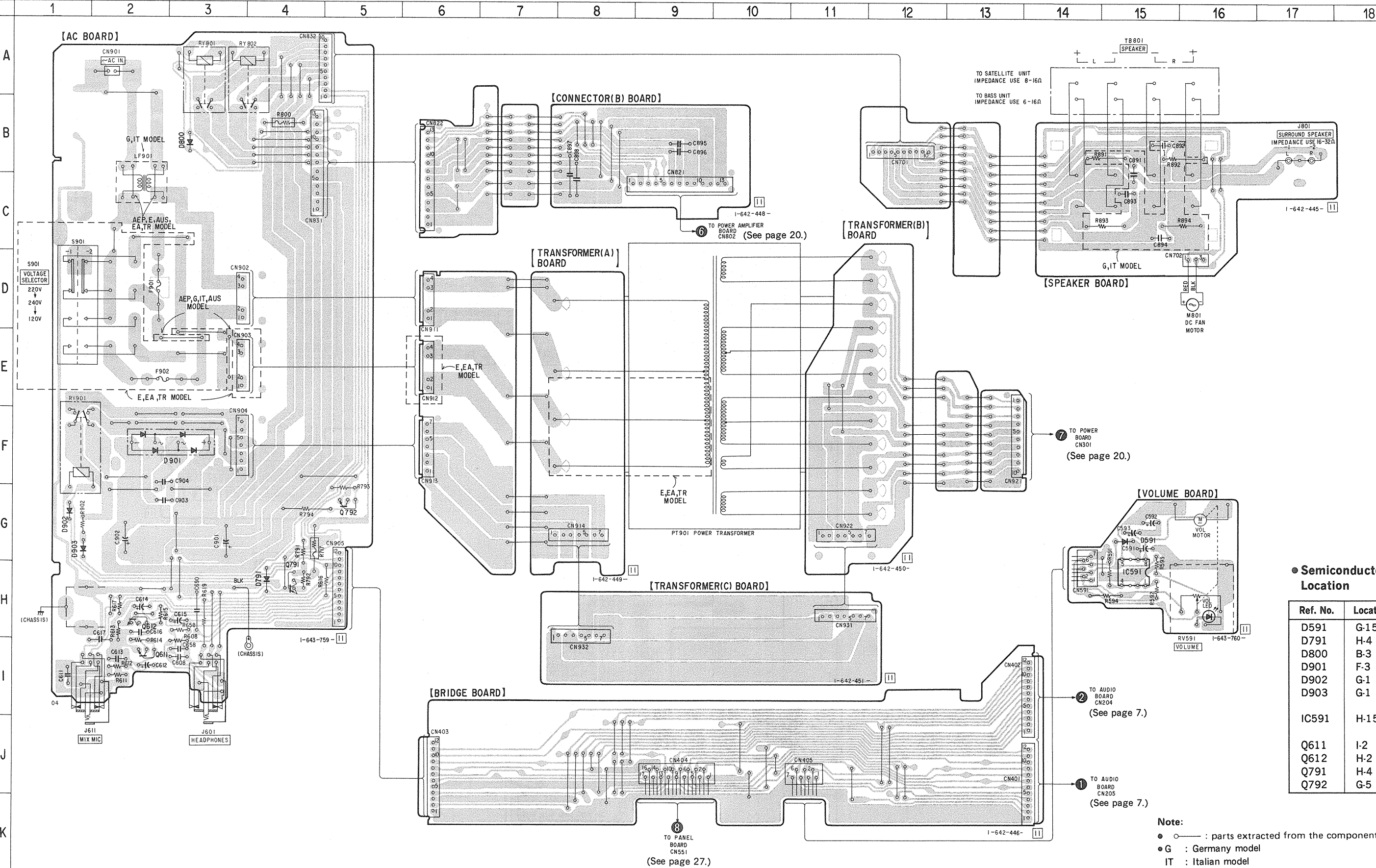




- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - Δ : internal component.
 - $B+$: B+ Line
 - $B-$: B- Line
 - Voltage is dc with respect to ground under no-signal conditions.
 - no mark: SYSTEM POWER ON
 - Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
 - Signal path.
 - $\Rightarrow$: TUNER
 - G: Germany model
 - IT: Italian model
 - AUS: Australian model
 - EA: Saudi Arabia model
 - TR: Tourist model



3-6. PRINTED WIRING BOARDS—AC/VOLUME SECTION— • Refer to page 6 for Semiconductor Lead Layouts.



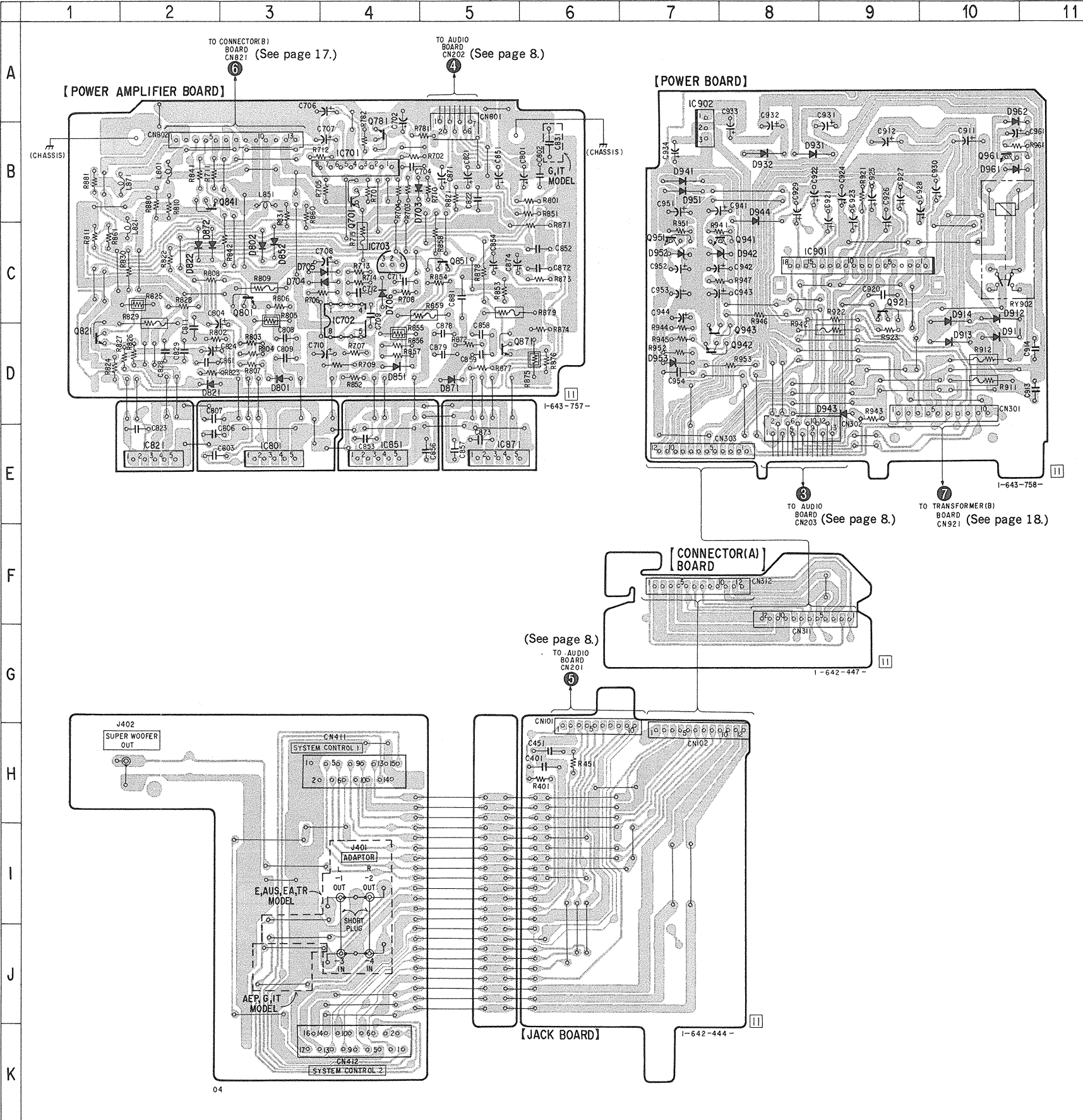
● Semiconductor Location

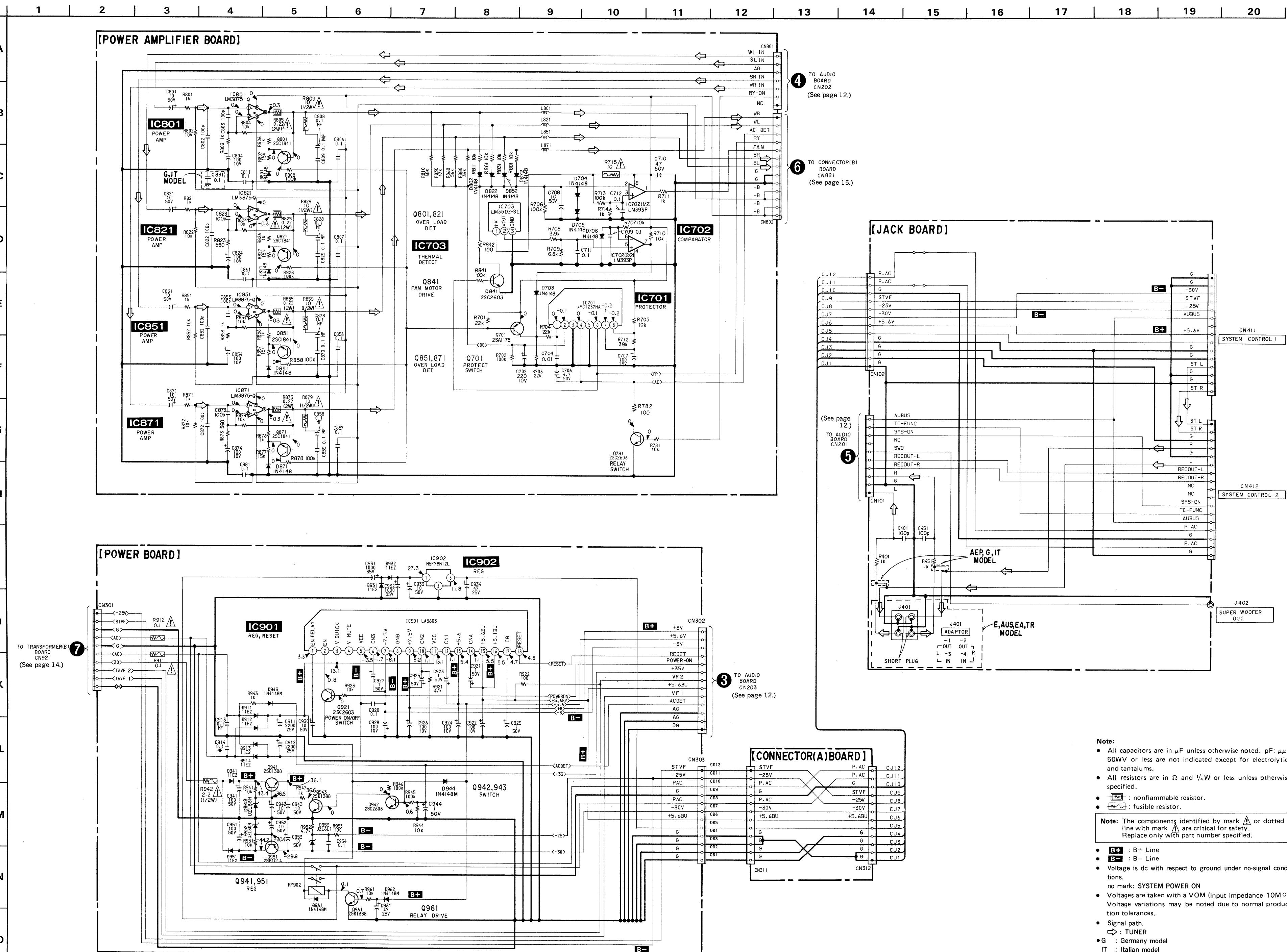
Ref. No.	Location
D703	B-4
D704	C-3
D705	C-3
D706	C-4
D801	D-3
D802	C-3
D821	D-2
D822	C-2
D851	D-4
D852	C-3
D871	D-5
D872	C-2
D911	D-10
D912	C-10
D913	D-10
D914	C-10
D931	B-8
D932	B-8
D941	B-7
D942	C-8
D943	D-9
D944	B-8
D951	B-7
D952	C-7
D953	D-7
D961	B-10
D962	B-10
IC701	B-4
IC702	C-4
IC703	C-4
IC801	E-3
IC821	E-2
IC851	E-4
IC871	E-5
IC901	C-9
IC902	B-7
Q701	B-4
Q781	B-4
Q801	C-3
Q821	D-1
Q841	B-2
Q851	C-5
Q871	D-5
Q921	C-9
Q941	C-8
Q942	D-8
Q943	D-8
Q951	C-7
Q961	B-10

Note:

- : parts extracted from the component side.
- G : Germany model
- IT : Italian model
- AUS : Australian model
- EA : Saudi Arabia model
- TR : Tourist model

3-7. PRINTED WIRING BOARDS—POWER/POWER AMPLIFIER SECTION— ● Refer to page 6 for Semiconductor Lead Layouts.





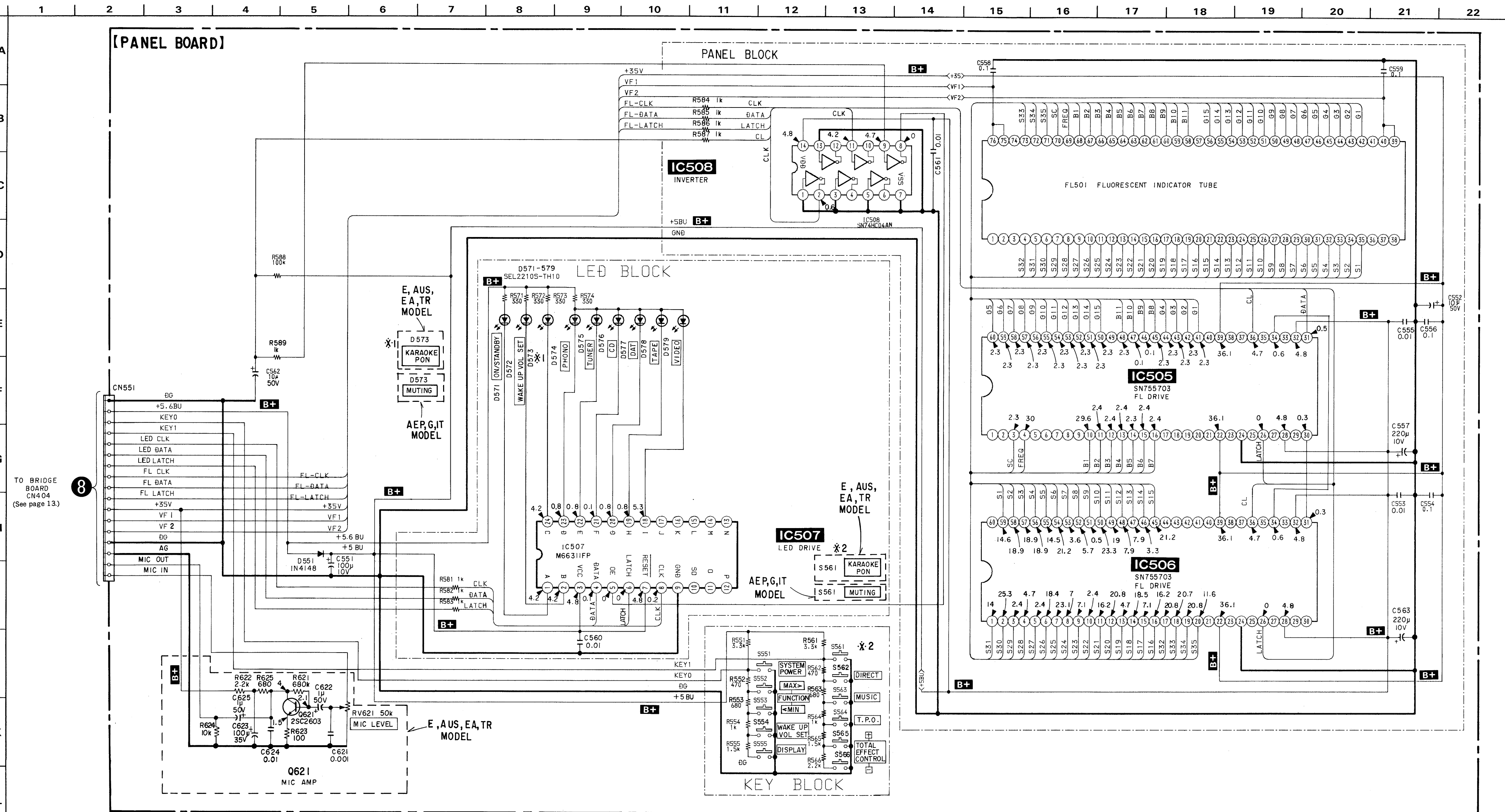
3-9. SCHEMATIC DIAGRAM—PANEL SECTION— • Refer to page 29 for IC Block Diagrams.

Note:

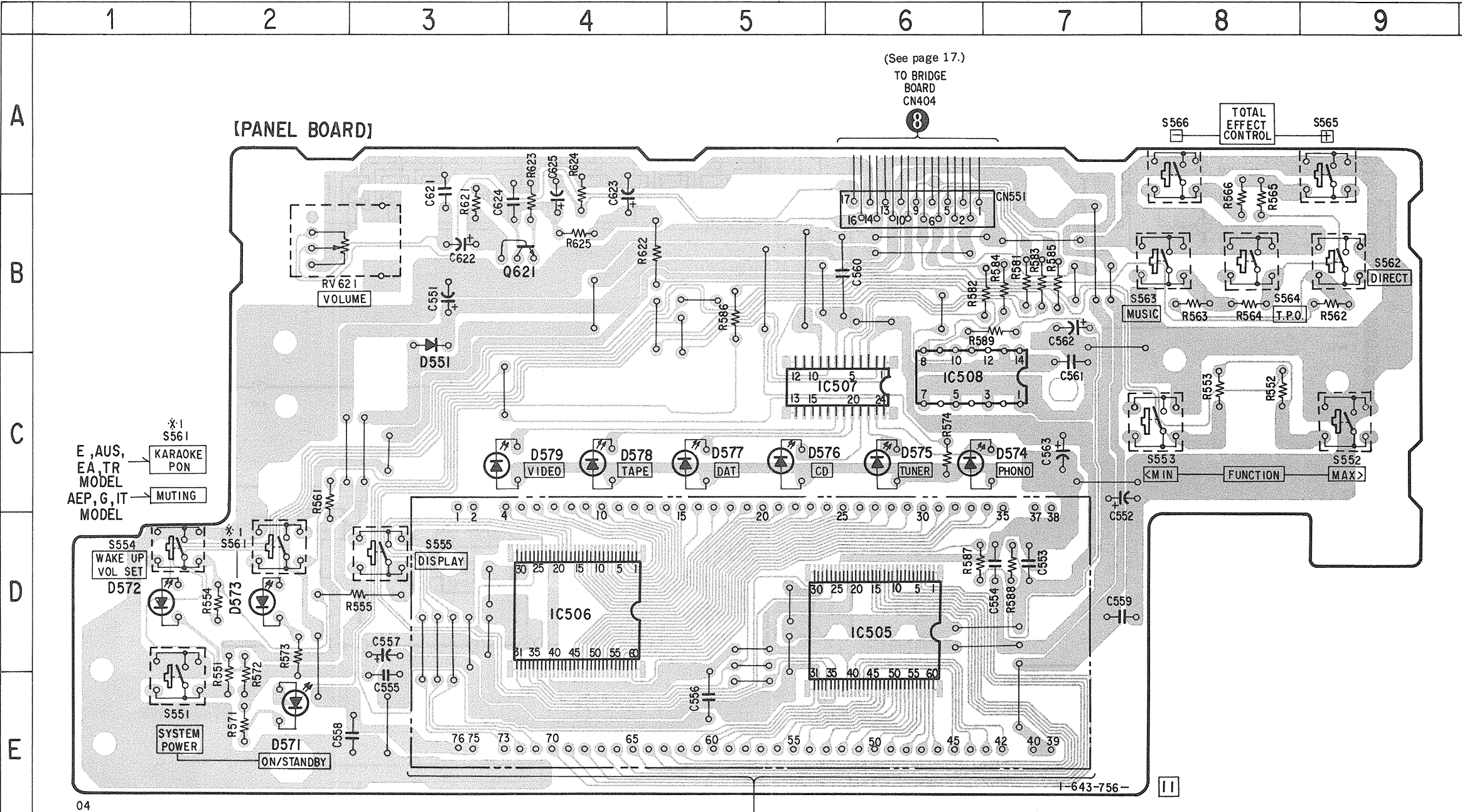
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- **B+** : B+ Line
- **B-** : B- Line

- Voltage is dc with respect to ground under no-signal conditions.
- no mark: SYSTEM POWER ON
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.

- G : Germany model
- IT : Italian model
- AUS : Australian model
- EA : Saudi Arabia model
- TR : Tourist model



3-10. PRINTED WIRING BOARD—PANEL SECTION— • Refer to page 6 for Semiconductor Lead Layouts.

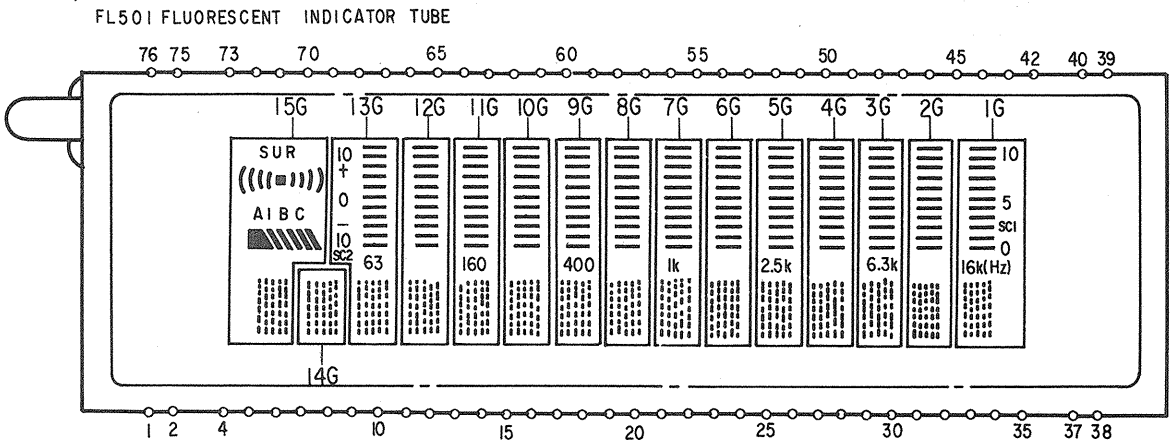


• Semiconductor Location

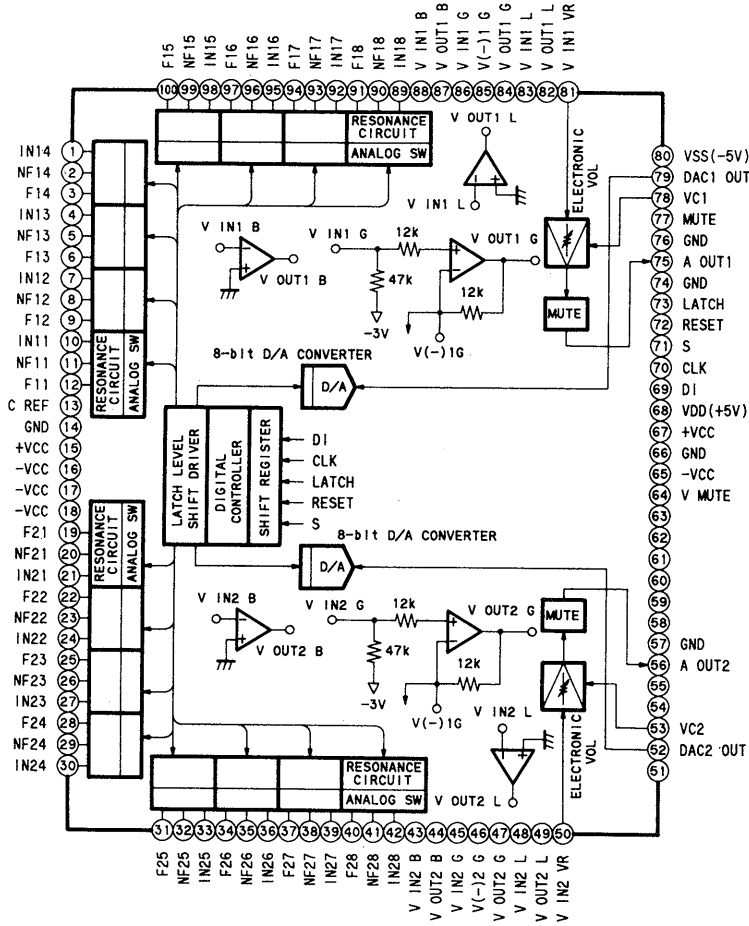
Ref. No.	Location
D551	B-3
D571	E-2
D572	D-1
D573	D-2
D574	C-6
D575	C-6
D576	C-5
D577	C-5
D578	C-4
D579	C-4
IC505	D-6
IC506	D-4
IC507	C-6
IC508	C-6
Q621	B-4

Note:

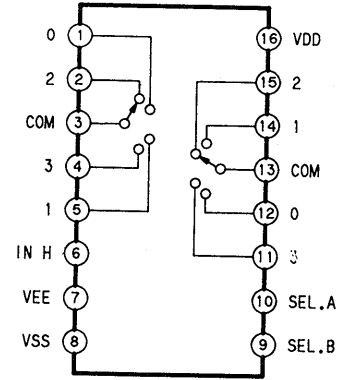
- : parts extracted from the component side.
- G : Germany model
- IT : Italian model
- AUS : Australian model
- EA : Saudi Arabia model
- TR : Tourist model



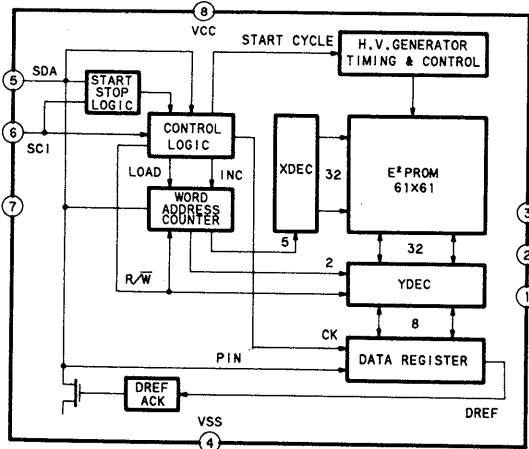
• IC Block Diagrams
IC201 CXA1492Q



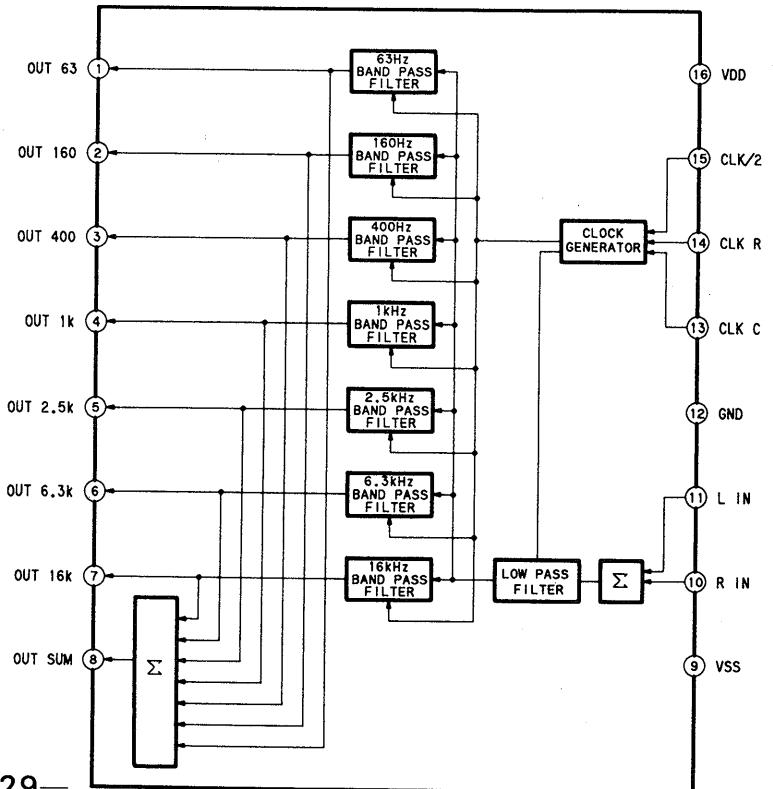
IC303, 503 CD4052BCM



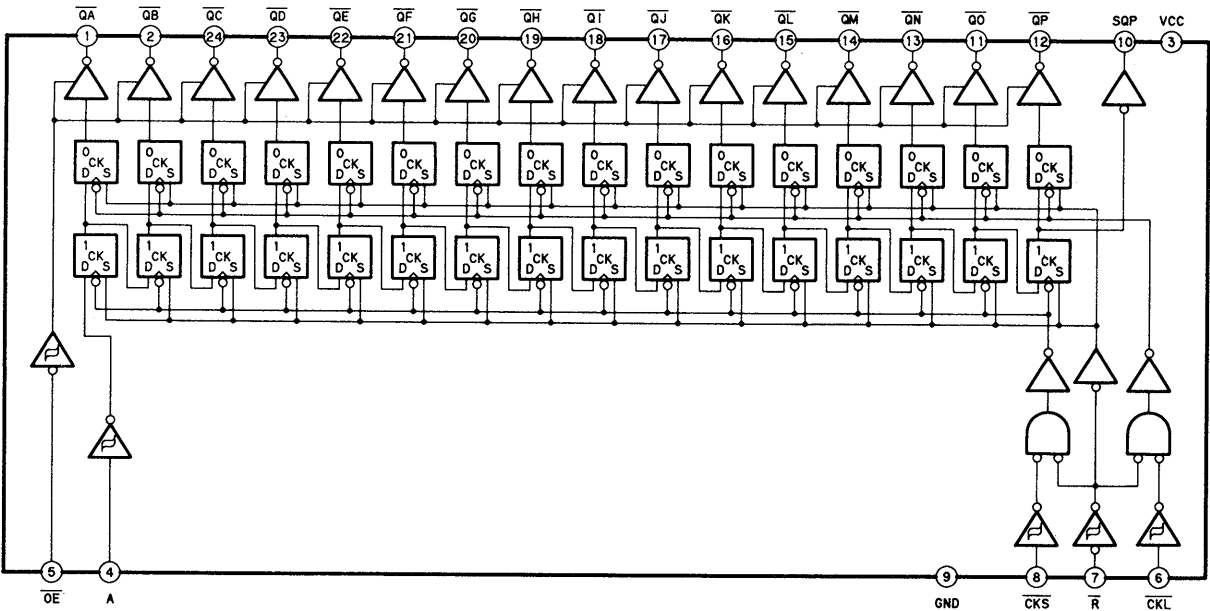
IC502 X24C01P



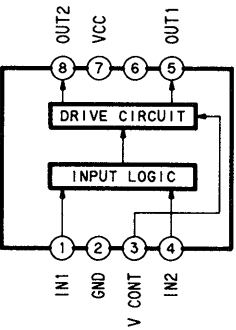
IC504 XR1091DCP



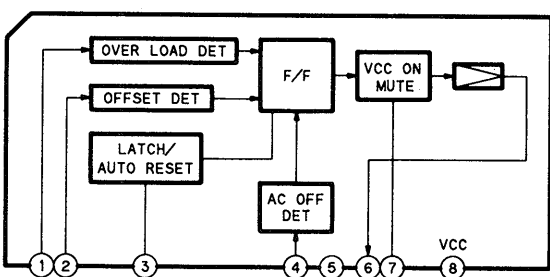
IC507 M66311FP



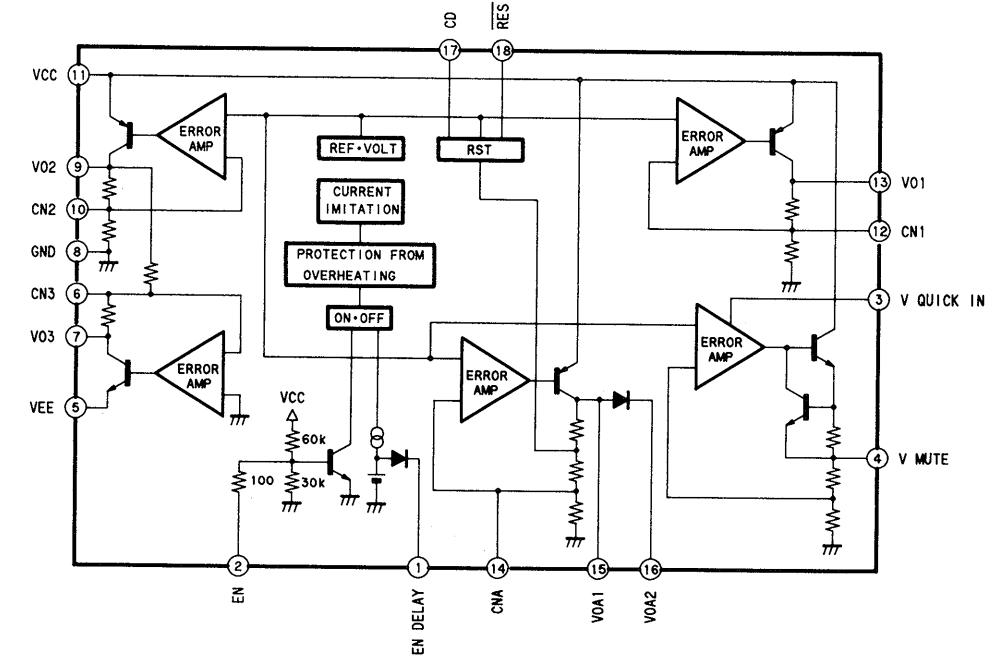
IC591 LB1639



IC701 μPC1237HA



IC901 LA5603



3-11. PIN FUNCTION OF IC501 (μ PD78134GF-051-3B9)

According to keying in or remote control signal, it sets the Graphic equalizer•electronic volume (IC201), AI BC, surround, KARAOKE PON (E, AUS, EA, TR model) etc. and switches the LED and FL tube display and functions in the deck.

Pin No.	Pin name	I/O	Description
1	CLR0	I	Timer pulse input
2	+5V	I	Not in use with the equipment (+5V)
3	FL DATA	O	Serial data output to the FL tube driver (IC505, 506)
4	FL CLK	O	Data transfer clock output to the FL tube driver (IC505, 506)
5	S0	I	Input port for model selection. Connected to GND with the equipment.
6	S1	I	Input port for model selection. Connected to GND (AEP, G, IT model) or +5V (E, AUS, EA, TR model) with the equipment.
7—12	+5V	I	Not in use with the equipment (+5V)
13	POT00	O	Timer pulse output (about 400 μ sec)
14	LED CLK	O	Data transfer clock output to the LED driver (IC507)
15	LED DATA	O	Serial data output to LED driver (IC507)
16	LED LATCH	O	Data latch output to the LED driver (IC507)
17, 18	NC	—	Not in use with the equipment (open)
19	AVSS	—	Analog system power terminal (GND)
20	AVREF	I	Analog port reference voltage input (+5V)
21, 22	KEY0, 1	I	Key input (Analog)* ¹
23, 24	SPE0, 1	I	Spectrum analysis data input (analog)
25	VOL DATA	I	Volume position data input (analog)
26—28	G	—	Not in use with the equipment (GND)
29	RESET	I	System reset input. "L" : reset
30	VDD	—	Power terminal (+5V)
31, 32	X1, X2	—	Crystal connection terminal for system clock oscillation
33	VSS	—	Power terminal (GND)
34	SPE A	O	Spectrum analysis data input switch A
35	SPE B	O	Spectrum analysis data input switch B
36	SPE INH	O	Spectrum analysis data input switch inhibit
37	AI BC A	O	AI BC output switch A
38	AI BC B	O	AI BC output switch B
39	AI BC INH	O	AI BC output switch inhibit
40, 41	NC	—	Not in use with the equipment (open)
42	SDL	O	Clock output to E ² P-ROM (IC502)
43	SDA	I/O	Data input/output (user preset memory data, etc.) with E ² P-ROM (IC502)
44	BACK UP	—	Not in use with the equipment (open)
45	AU BUS IN	I	Audio bus input
46	AU BUS OUT	O	Audio bus output (tuner power ON/OFF and instruction to the function switch microcomputer in the deck)
47	NC	—	Not in use with the equipment (open)
48	VOL DOWN	O	DOWN signal output of the volume motor (RV591)
49	VOL UP	O	UP signal output of the volume motor (RV591)
50	TC-FUNC	I	Request of audio bus (FUNCTION data) from the function switch microcomputer in the deck (TC-H4700)
51	RESET	O	Reset output to the Graphic equalizer•electronic volume (IC201). "L" : reset
52	LATCH	O	Data latch output to the Graphic equalizer•electronic volume (IC201)

- AUS : Australian model
- EA : Saudi Arabia model
- TR : Tourist model
- G : Germany model
- IT : Italian model

Pin No.	Pin name	I/O	Description
53	CLK	O	Data transfer clock output to the Graphic equalizer•electronic volume (IC201)
54	DATA	O	Serial data output to the Graphic equalizer•electronic volume (IC201)
55	MUTE	O	Mute output
56	RY-ON	O	Speaker relay control
57	POWER ON/OFF	O	Power (IC901) output control. "L" : Power ON
58	NC	—	Not in use with the equipment (open)
59	SUR A	O	Surround control output switch A
60	SUR B	O	Surround control output switch B
61	SUR C	O	Surround control output switch C
62	SUR INH	O	Surround control output switch inhibit
63, 64	NC	—	Not in use with the equipment (open)
65	KARAOKE	O	Not in use with the equipment (open) (AEP, G, IT model) KARAOKE PON ON/OFF (IC302 (1/2)) control output. "H" : KARAOKE PON (E, AUS, EA, TR model)
66	NC	—	Not in use with the equipment (open)
67	VSS	—	Power terminal (GND)
68	+5V	I	Not in use with the equipment (+5V)
69—76	NC	—	Not in use with the equipment (open)
77	VDD	—	Power terminal (+5V)
78	NC	—	Not in use with the equipment (open)
79	FL LATCH	O	Data latch output to the FL tube driver (IC505, 506)
80	NC	—	Not in use with the equipment (open)

*1 Key input (analog port)

Voltage (V) Input port	0	0.63	1.3	2.0	2.6	3.2
Pin ② KEY 0	SYSTEM POWER S551	FUNCTION MAX> S552	FUNCTION <MIN S553	WAKE UP VOL SET S554	DISPLAY S555	—
Pin ② KEY1	MUTING * 2 KARAOKE PON * 3 S561	DIRECT S562	MUSIC S563	T. P. O. S564	TOTAL EFFECT+ S565	TOTAL EFFECT— S566

- G : Germany model
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* 2 : Use on AEP, G, IT model.

* 3 : Use on E, AUS, EA, TR model.

SECTION 4 EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- -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)

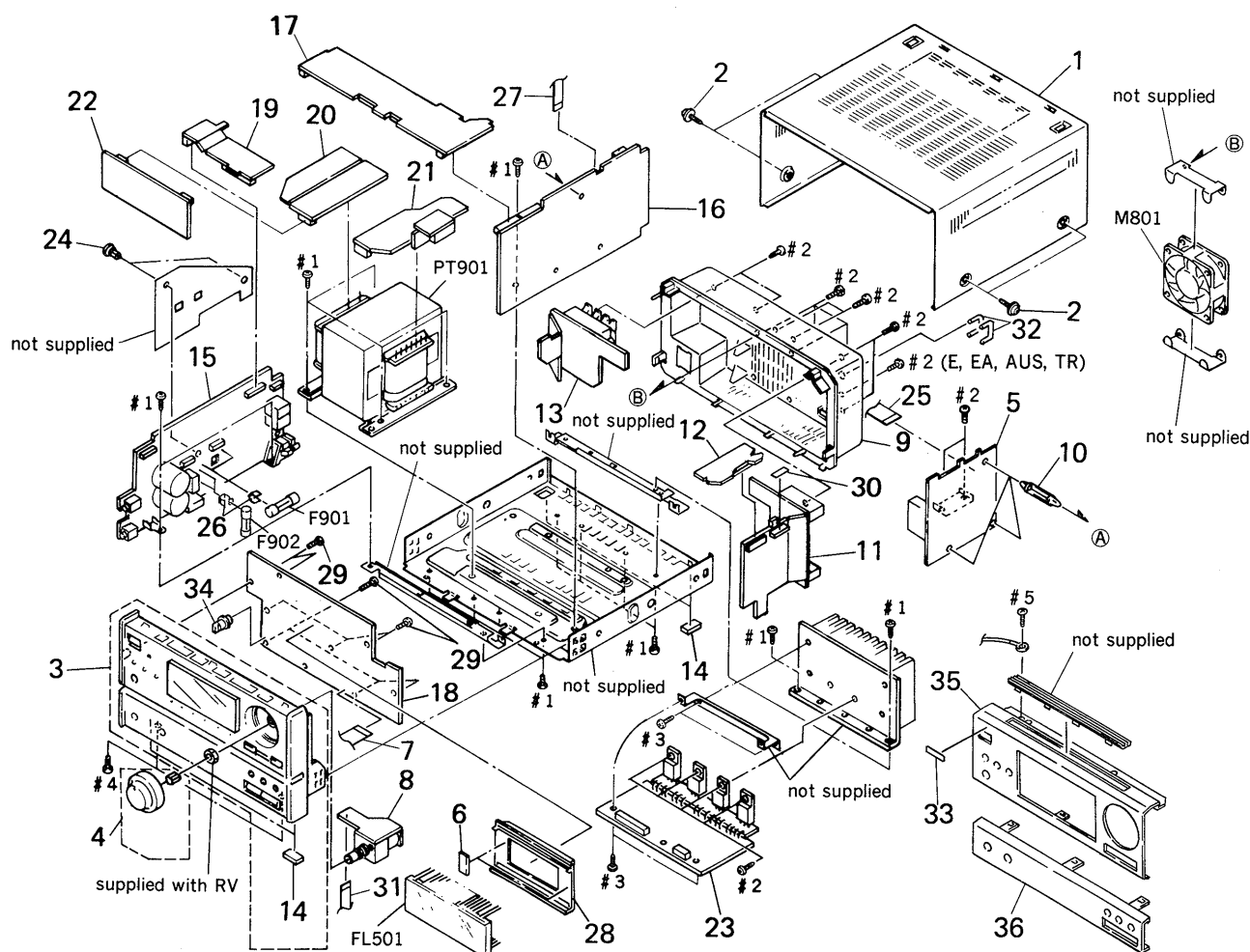
[illegible]

- Hardware (# mark) list is given in the last of this parts list.

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

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4-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
* 1	4-932-841-41	CASE	
2	3-363-099-01	SCREW (CASE +3X8 TP2)	
3	X-4942-565-1	PANEL ASSY, FRONT	
4	X-4942-472-2	KNOB (VOLUME) ASSY	
* 5	A-4347-402-A	POWER BOARD, COMPLETE	
* 6	4-932-810-11	CUSHION (FL)	
7	1-690-994-11	WIRE (FLAT TYPE) (17 CORE)	
* 8	1-643-760-11	VOLUME BOARD	
* 9	4-948-766-21	PANEL, BACK (AEP, G, IT)	
* 9	4-948-766-41	PANEL, BACK (E, AUS, EA, TR)	
* 10	4-385-948-01	HOLDER, PCB	
* 11	1-642-444-11	JACK BOARD	
* 12	1-642-447-11	CONNECTOR (A) BOARD	
* 13	1-642-445-11	SPEAKER BOARD	
14	4-930-336-21	FOOT (FELT)	
* 15	A-4347-403-A	AC BOARD, COMPLETE (AEP, AUS)	
* 15	A-4347-404-A	AC BOARD, COMPLETE (G, IT)	
* 15	A-4347-405-A	AC BOARD, COMPLETE (E, TR)	
* 15	A-4347-406-A	AC BOARD, COMPLETE (EA)	
* 16	A-4347-396-A	AUDIO BOARD, COMPLETE (AEP)	
* 16	A-4347-397-A	AUDIO BOARD, COMPLETE (G, IT)	
* 16	A-4347-398-A	AUDIO BOARD, COMPLETE (E, AUS, EA, TR)	
* 17	1-642-446-11	BRIDGE BOARD	
* 18	A-4347-399-A	PANEL BOARD, COMPLETE	
* 19	1-642-448-11	CONNECTOR (B) BOARD	
* 20	1-642-449-11	TRANSFORMER (A) BOARD	
* 21	1-642-450-11	TRANSFORMER (B) BOARD	

Ref. No.	Part No.	Description	Remark
* 22	1-642-451-11	TRANSFORMER (C) BOARD	
* 23	A-4347-400-A	POWER AMPLIFIER BOARD, COMPLETE (AEP, E, AUS, EA, TR)	
* 23	A-4347-401-A	POWER AMPLIFIER BOARD, COMPLETE (G, IT)	
24	4-812-134-11	RIVET NYLON, 3.5	
25	1-690-993-11	WIRE (FLAT TYPE) (13 CORE)	
* 26	1-533-213-31	HOLDER, FUSE	
27	1-690-992-11	WIRE (FLAT TYPE) (7 CORE)	
* 28	4-951-235-01	HOLDER (FL TUBE)	
29	4-951-620-01	SCREW (2. 6X8), +BVTP	
30	9-911-835-XX	SPACER	
31	1-590-240-11	WIRE, FLAT TYPE (7 CORE)	
32	1-535-706-11	PLUG, JUMPER (E, AUS, EA, TR)	
33	4-942-636-01	EMBLEM (NO. 3. 5), SONY	
34	4-950-897-11	KNOB (MIC LEVEL)	
35	X-4942-566-1	PANEL (UPPER) ASSY, FRONT (AEP, G, IT)	
35	X-4942-567-1	PANEL (UPPER) ASSY, FRONT (E, AUS, EA, TR)	
36	4-951-225-21	PANEL (LOWER), FRONT (AEP, G, IT)	
36	4-951-225-31	PANEL (LOWER), FRONT (E, AUS, EA, TR)	
△F901	1-532-259-00	FUSE (T1. 6A)	
△F902	1-532-237-00	FUSE, TIME LAG (T3. 15A) (E, EA, TR)	
FL501	1-519-720-21	INDICATOR TUBE, FLUORESCENT	
M801	1-541-953-11	MOTOR, DC FAN	
△PT901	1-450-893-11	TRANSFORMER, POWER (AEP, G, IT)	
△PT901	1-450-894-11	TRANSFORMER, POWER (AUS)	
△PT901	1-450-895-21	TRANSFORMER, POWER (E, EA, TR)	

SECTION 5 ELECTRICAL PARTS LIST

AC

PANEL

POWER

POWER AMPLIFIER

VOLUME

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

- 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...: μ A... uPA...: μ PA...
uPB...: μ PB... uPC...: μ PC... uPD...: μ PD...
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

• AUS: Australian model
G : Germany model
IT : Italian model
TR : Tourist model
EA : Saudi Arabia model

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4347-403-A	AC BOARD, COMPLETE (AEP, AUS)		C613	1-162-294-31	CERAMIC 0.001uF 10%	50V
*	A-4347-404-A	AC BOARD, COMPLETE (G, IT)		C614	1-124-903-11	ELECT 1uF 20%	50V
*	A-4347-405-A	AC BOARD, COMPLETE (E, TR)		C615	1-124-443-00	ELECT 100uF 20%	10V
*	A-4347-406-A	AC BOARD, COMPLETE (EA)		C616	1-161-379-00	CERAMIC 0.01uF 20%	25V
	*****			C617	1-164-159-11	CERAMIC 0.1uF	50V
*	A-4347-399-A	PANEL BOARD, COMPLETE		C621	1-162-294-31	CERAMIC 0.001uF 10%	50V
	*****			C622	1-124-903-11	ELECT 1uF 20%	50V
*	A-4347-402-A	POWER BOARD, COMPLETE		C623	1-126-948-11	ELECT 100uF 20%	35V
	*****			C624	1-161-379-00	CERAMIC 0.01uF 20%	25V
*	A-4347-400-A	POWER AMPLIFIER BOARD, COMPLETE		C625	1-124-903-11	ELECT 1uF 20%	50V
		(AEP, E, AUS, EA, TR)					
*	A-4347-401-A	POWER AMPLIFIER BOARD, COMPLETE (G, IT)		C658	1-161-379-00	CERAMIC 0.01uF 20%	25V
	*****					(AEP, E, AUS, EA, TR)	
*	1-643-760-11	VOLUME BOARD		C658	1-164-159-11	CERAMIC 0.1uF	50V (G, IT)
	*****			C690	1-164-159-11	CERAMIC 0.1uF	50V
*	1-533-213-31	HOLDER, FUSE		C702	1-126-176-11	ELECT 220uF 20%	10V
*	4-932-810-11	CUSHION (FL)		C704	1-162-306-11	CERAMIC 0.01uF 20%	16V
*	4-951-235-01	HOLDER (FL TUBE)					
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3		C706	1-124-927-11	ELECT 4.7uF 20%	100V
		< CAPACITOR >		C707	1-124-478-11	ELECT 100uF 20%	25V
C551	1-124-443-00	ELECT 100uF 20%	10V	C708	1-124-907-11	ELECT 10uF 20%	50V
C552	1-124-261-00	ELECT 10uF 20%	50V	C709	1-164-159-11	CERAMIC 0.1uF	50V
C553	1-161-379-00	CERAMIC 0.01uF 20%	25V	C710	1-124-910-11	ELECT 47uF 20%	50V
C554	1-164-159-11	CERAMIC 0.1uF	50V	C711	1-164-159-11	CERAMIC 0.1uF	50V
C555	1-161-379-00	CERAMIC 0.01uF 20%	25V	C712	1-164-159-11	CERAMIC 0.1uF	50V
C556	1-164-159-11	CERAMIC 0.1uF	50V	C801	1-124-907-11	ELECT 10uF 20%	50V
C557	1-126-923-11	ELECT 220uF 20%	10V	C802	1-162-282-31	CERAMIC 100PF 10%	50V
C558	1-164-159-11	CERAMIC 0.1uF	50V	C803	1-162-282-31	CERAMIC 100PF 10%	50V
C559	1-164-159-11	CERAMIC 0.1uF	50V				
C560	1-161-379-00	CERAMIC 0.01uF 20%	25V	C804	1-124-443-00	ELECT 100uF 20%	10V
C561	1-161-379-00	CERAMIC 0.01uF 20%	25V	C806	1-136-165-00	FILM 0.1uF 5%	50V
C562	1-124-261-00	ELECT 10uF 20%	50V	C807	1-136-165-00	FILM 0.1uF 5%	50V
C563	1-126-923-11	ELECT 220uF 20%	10V	C808	1-136-165-00	FILM 0.1uF 5%	50V
C591	1-124-443-00	ELECT 100uF 20%	10V	C809	1-136-165-00	FILM 0.1uF 5%	50V
C592	1-124-907-11	ELECT 10uF 20%	50V				
C593	1-124-907-11	ELECT 10uF 20%	50V	C811	1-164-159-11	CERAMIC 0.1uF	50V
C608	1-161-379-00	CERAMIC 0.01uF 20%	25V	C821	1-124-907-11	ELECT 10uF 20%	50V
		(AEP, E, AUS, EA, TR)		C822	1-162-282-31	CERAMIC 100PF 10%	50V
C608	1-164-159-11	CERAMIC 0.1uF	50V (G, IT)	C823	1-162-282-31	CERAMIC 100PF 10%	50V
C611	1-162-294-31	CERAMIC 0.001uF 10%	50V	C824	1-124-443-00	ELECT 100uF 20%	10V
C612	1-124-903-11	ELECT 1uF 20%	50V	C828	1-136-165-00	FILM 0.1uF 5%	50V
				C829	1-136-165-00	FILM 0.1uF 5%	50V
				C831	1-164-159-11	CERAMIC 0.1uF	50V (G, IT)
				C851	1-124-907-11	ELECT 10uF 20%	50V

AC

PANEL

POWER

POWER AMPLIFIER

VOLUME

Ref. No.	Part No.	Description			Remark
C852	1-162-282-31	CERAMIC	100PF	10%	50V
C853	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-124-443-00	ELECT	100uF	20%	10V
C856	1-136-165-00	FILM	0.1uF	5%	50V
C857	1-136-165-00	FILM	0.1uF	5%	50V
C858	1-136-165-00	FILM	0.1uF	5%	50V
C859	1-136-165-00	FILM	0.1uF	5%	50V
C861	1-164-159-11	CERAMIC	0.1uF		50V
C871	1-124-907-11	ELECT	10uF	20%	50V
C872	1-162-282-31	CERAMIC	100PF	10%	50V
C873	1-162-282-31	CERAMIC	100PF	10%	50V
C874	1-124-443-00	ELECT	100uF	20%	10V
C878	1-136-165-00	FILM	0.1uF	5%	50V
C879	1-136-165-00	FILM	0.1uF	5%	50V
C881	1-164-159-11	CERAMIC	0.1uF		50V
C901	1-126-224-11	ELECT	4700uF	20%	42V
C902	1-126-224-11	ELECT	4700uF	20%	42V
C903	1-136-171-00	FILM	0.33uF	5%	50V
C904	1-136-171-00	FILM	0.33uF	5%	50V
C911	1-124-563-11	ELECT	2200uF	20%	25V
C912	1-124-563-11	ELECT	2200uF	20%	25V
C913	1-136-165-00	FILM	0.1uF	5%	50V
C914	1-136-165-00	FILM	0.1uF	5%	50V
C920	1-164-159-11	CERAMIC	0.1uF		50V
C921	1-124-903-11	ELECT	1uF	20%	50V
C922	1-124-443-00	ELECT	100uF	20%	10V
C923	1-124-903-11	ELECT	1uF	20%	50V
C924	1-124-443-00	ELECT	100uF	20%	10V
C925	1-124-903-11	ELECT	1uF	20%	50V
C926	1-124-443-00	ELECT	100uF	20%	10V
C927	1-124-903-11	ELECT	1uF	20%	50V
C928	1-124-443-00	ELECT	100uF	20%	10V
C929	1-124-903-11	ELECT	1uF	20%	50V
C930	1-124-907-11	ELECT	10uF	20%	50V
C931	1-126-105-11	ELECT	1000uF	20%	35V
C932	1-126-105-11	ELECT	1000uF	20%	35V
C933	1-124-907-11	ELECT	10uF	20%	50V
C934	1-124-477-11	ELECT	47uF	20%	25V
C941	1-124-122-11	ELECT	100uF	20%	50V
C942	1-124-907-11	ELECT	10uF	20%	50V
C943	1-124-907-11	ELECT	10uF	20%	50V
C944	1-124-903-11	ELECT	1uF	20%	50V
C951	1-124-122-11	ELECT	100uF	20%	50V
C952	1-124-907-11	ELECT	10uF	20%	50V
C953	1-124-907-11	ELECT	10uF	20%	50V
C954	1-164-159-11	CERAMIC	0.1uF		50V
C961	1-124-477-11	ELECT	47uF	20%	25V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN301	1-569-505-11	PIN, CONNECTOR 10P	
* CN302	1-568-832-11	SOCKET, CONNECTOR 13P	
CN303	1-573-826-11	CONNECTOR, BOARD TO BOARD 12P	
* CN551	1-568-836-11	SOCKET, CONNECTOR 17P	
* CN591	1-568-826-11	SOCKET, CONNECTOR 7P	
* CN801	1-568-850-11	SOCKET, CONNECTOR 7P	
* CN802	1-573-087-11	PIN, CONNECTOR 13P	
* CN831	1-573-087-11	PIN, CONNECTOR 13P	
CN832	1-566-128-11	CONNECTOR, BOARD TO BOARD 10P	
△CN901	1-526-930-11	INLET, AC (∼ AC IN) (E, TR)	
△CN901	1-526-931-11	INLET, AC (∼ AC IN) (AEP, G, IT, AUS, EA)	
* CN902	1-580-940-11	PIN, CONNECTOR 4P	
* CN903	1-580-940-11	PIN, CONNECTOR 4P (E, EA, TR)	
* CN904	1-569-502-11	PIN, CONNECTOR 7P	
CN905	1-573-826-11	CONNECTOR, BOARD TO BOARD 12P	
		< DIODE >	
D551	8-719-987-63	DIODE 1N4148M	
D571	8-719-301-37	LED SEL2210S-CD (ON/STANDBY)	
D572	8-719-301-37	LED SEL2210S-CD (WAKE UP VOL SET)	
D573	8-719-301-37	LED SEL2210S-CD (MUTING) (AEP, G, IT)	
D573	8-719-301-37	LED SEL2210S-CD (KARAOKE PON)	
		(E, AUS, EA, TR)	
D574	8-719-301-37	LED SEL2210S-CD (PHONO)	
D575	8-719-301-37	LED SEL2210S-CD (TUNER)	
D576	8-719-301-37	LED SEL2210S-CD (CD)	
D577	8-719-301-37	LED SEL2210S-CD (DAT)	
D578	8-719-301-37	LED SEL2210S-CD (TAPE)	
D579	8-719-301-37	LED SEL2210S-CD (VIDEO)	
D591	8-719-987-63	DIODE 1N4148M	
D703	8-719-987-63	DIODE 1N4148M	
D704	8-719-987-63	DIODE 1N4148M	
D705	8-719-987-63	DIODE 1N4148M	
D706	8-719-987-63	DIODE 1N4148M	
D791	8-719-987-63	DIODE 1N4148M	
D800	8-719-987-63	DIODE 1N4148M	
D801	8-719-987-63	DIODE 1N4148M	
D802	8-719-987-63	DIODE 1N4148M	
D821	8-719-987-63	DIODE 1N4148M	
D822	8-719-987-63	DIODE 1N4148M	
D851	8-719-987-63	DIODE 1N4148M	
D852	8-719-987-63	DIODE 1N4148M	
D871	8-719-987-63	DIODE 1N4148M	
D872	8-719-987-63	DIODE 1N4148M	
D901	8-719-302-38	DIODE RBV-602-01	
D902	8-719-987-63	DIODE 1N4148M	
D903	8-719-987-63	DIODE 1N4148M	
D911	8-719-200-82	DIODE 11ES2	

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

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PANEL

POWER

POWER AMPLIFIER

VOLUME

Ref. No.	Part No.	Description	Remark
D912	8-719-200-82	DIODE 11ES2	
D913	8-719-200-82	DIODE 11ES2	
D914	8-719-200-82	DIODE 11ES2	
D931	8-719-200-82	DIODE 11ES2	
D932	8-719-200-82	DIODE 11ES2	
D941	8-719-200-82	DIODE 11ES2	
D942	8-719-002-67	DIODE UZL-33H	
D943	8-719-987-63	DIODE 1N4148M	
D944	8-719-987-63	DIODE 1N4148M	
D951	8-719-200-82	DIODE 11ES2	
D952	8-719-934-22	DIODE HZS30-2L	
D953	8-719-933-33	DIODE HZS6A1L	
D961	8-719-987-63	DIODE 1N4148M	
D962	8-719-987-63	DIODE 1N4148M	
< FLUORESCENT INDICATOR >			
FL501	1-519-720-21	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC505	8-759-512-44	IC SN755703	
IC506	8-759-512-44	IC SN755703	
IC507	8-759-636-56	IC M66311FP	
IC508	8-759-916-14	IC SN74HC04N	
IC591	8-759-820-62	IC LB1639	
IC701	8-759-111-68	IC uPC1237HA	
IC702	8-759-987-16	IC LM393P	
IC703	8-759-512-73	IC LM35DZ-SL	
IC801	8-759-069-56	IC LM3875-Q	
IC821	8-759-069-56	IC LM3875-Q	
IC851	8-759-069-56	IC LM3875-Q	
IC871	8-759-069-56	IC LM3875-Q	
IC901	8-759-823-46	IC LA5603	
IC902	8-759-604-39	IC AN6291	
< JACK >			
J601	1-562-837-21	JACK (HEADPHONES)	
J611	1-562-837-21	JACK (MIX MIC)	
< COIL >			
* L801	1-420-872-00	COIL, AIR CORE	
* L821	1-420-872-00	COIL, AIR CORE	
* L851	1-420-872-00	COIL, AIR CORE	
* L871	1-420-872-00	COIL, AIR CORE	
< LINE FILTER >			
△LF901	1-424-485-11	FILTER, LINE (G, IT)	

Ref. No.	Part No.	Description	Remark
< TRANSISTOR >			
Q611	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q612	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q621	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q781	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q791	8-729-118-01	TRANSISTOR 2SB1116	
Q792	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q821	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q841	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q871	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q921	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q941	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q942	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q943	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q951	8-729-118-01	TRANSISTOR 2SB1116	
Q961	8-729-111-29	TRANSISTOR 2SD1616A-K	
< RESISTOR >			
R551	1-249-423-11	CARBON 3.3K 5% 1/4W	
R552	1-249-413-11	CARBON 470 5% 1/4W	
R553	1-249-415-11	CARBON 680 5% 1/4W	
R554	1-249-417-11	CARBON 1K 5% 1/4W	
R555	1-249-419-11	CARBON 1.5K 5% 1/4W	
R561	1-249-423-11	CARBON 3.3K 5% 1/4W	
R562	1-249-413-11	CARBON 470 5% 1/4W	
R563	1-249-415-11	CARBON 680 5% 1/4W	
R564	1-249-417-11	CARBON 1K 5% 1/4W	
R565	1-249-419-11	CARBON 1.5K 5% 1/4W	
R566	1-249-421-11	CARBON 2.2K 5% 1/4W	
R571	1-249-411-11	CARBON 330 5% 1/4W	
R572	1-249-411-11	CARBON 330 5% 1/4W	
R573	1-249-411-11	CARBON 330 5% 1/4W	
R574	1-249-411-11	CARBON 330 5% 1/4W	
R581	1-249-417-11	CARBON 1K 5% 1/4W	
R582	1-249-417-11	CARBON 1K 5% 1/4W	
R583	1-249-417-11	CARBON 1K 5% 1/4W	
R584	1-249-417-11	CARBON 1K 5% 1/4W	
R585	1-249-417-11	CARBON 1K 5% 1/4W	
R586	1-249-417-11	CARBON 1K 5% 1/4W	
R587	1-249-417-11	CARBON 1K 5% 1/4W	
R588	1-249-441-11	CARBON 100K 5% 1/4W	
R589	1-249-417-11	CARBON 1K 5% 1/4W	
R591	1-249-417-11	CARBON 1K 5% 1/4W	
R592	1-249-417-11	CARBON 1K 5% 1/4W	
R593	1-249-414-11	CARBON 560 5% 1/4W	

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

AC

PANEL

POWER

POWER AMPLIFIER

VOLUME

Ref. No.	Part No.	Description	Remark		
R594	1-249-431-11	CARBON	15K	5%	1/4W
R608	1-249-399-11	CARBON	33	5%	1/4W
R611	1-249-429-11	CARBON	10K	5%	1/4W
R612	1-249-417-11	CARBON	1K	5%	1/4W
R613	1-249-417-11	CARBON	1K	5%	1/4W
R614	1-247-895-00	CARBON	470K	5%	1/4W
R615	1-249-425-11	CARBON	4.7K	5%	1/4W
R616	1-249-417-11	CARBON	1K	5%	1/4W
R617	1-249-441-11	CARBON	100K	5%	1/4W
R619	1-249-429-11	CARBON	10K	5%	1/4W
R621	1-247-899-11	CARBON	680K	5%	1/4W
R622	1-249-421-11	CARBON	2.2K	5%	1/4W
R623	1-249-405-11	CARBON	100	5%	1/4W
R624	1-249-429-11	CARBON	10K	5%	1/4W
R625	1-249-415-11	CARBON	680	5%	1/4W
R658	1-249-399-11	CARBON	33	5%	1/4W
R701	1-249-433-11	CARBON	22K	5%	1/4W
R702	1-249-441-11	CARBON	100K	5%	1/4W
R703	1-249-433-11	CARBON	22K	5%	1/4W
R704	1-249-433-11	CARBON	22K	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R706	1-249-441-11	CARBON	100K	5%	1/4W
R707	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-424-11	CARBON	3.9K	5%	1/4W
R709	1-249-427-11	CARBON	6.8K	5%	1/4W
R710	1-249-429-11	CARBON	10K	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W
R712	1-249-436-11	CARBON	39K	5%	1/4W
R713	1-249-441-11	CARBON	100K	5%	1/4W
R714	1-249-417-11	CARBON	1K	5%	1/4W
△R715	1-212-857-00	FUSIBLE	10	5%	1/4W F
△R717	1-212-982-00	FUSIBLE	100	5%	1/2W F
R781	1-249-429-11	CARBON	10K	5%	1/4W
R782	1-249-405-11	CARBON	100	5%	1/4W
R791	1-249-417-11	CARBON	1K	5%	1/4W
R792	1-249-429-11	CARBON	10K	5%	1/4W
R793	1-249-441-11	CARBON	100K	5%	1/4W
R794	1-249-433-11	CARBON	22K	5%	1/4W
△R800	1-212-982-00	FUSIBLE	100	5%	1/2W F
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-429-11	CARBON	10K	5%	1/4W
R803	1-249-417-11	CARBON	1K	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
△R805	1-217-151-00	RES, METAL PLATE	0.22	2W	
R806	1-249-417-11	CARBON	1K	5%	1/4W
R807	1-249-431-11	CARBON	15K	5%	1/4W
R808	1-249-441-11	CARBON	100K	5%	1/4W
△R809	1-212-958-00	FUSIBLE	10	5%	1/2W F
R810	1-249-439-11	CARBON	68K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R811	1-249-429-11	CARBON	10K	5%	1/4W
R821	1-249-417-11	CARBON	1K	5%	1/4W
R822	1-249-429-11	CARBON	10K	5%	1/4W
R823	1-249-414-11	CARBON	560	5%	1/4W
R824	1-249-429-11	CARBON	10K	5%	1/4W
△R825	1-217-151-00	RES, METAL PLATE	0.22	2W	
R826	1-249-417-11	CARBON	1K	5%	1/4W
R827	1-249-431-11	CARBON	15K	5%	1/4W
R828	1-249-441-11	CARBON	100K	5%	1/4W
△R829	1-212-958-00	FUSIBLE	10	5%	1/2W F
R830	1-249-437-11	CARBON	47K	5%	1/4W
R831	1-249-429-11	CARBON	10K	5%	1/4W
R841	1-249-441-11	CARBON	100K	5%	1/4W
R842	1-249-405-11	CARBON	100	5%	1/4W
R851	1-249-417-11	CARBON	1K	5%	1/4W
R852	1-249-429-11	CARBON	10K	5%	1/4W
R853	1-249-417-11	CARBON	1K	5%	1/4W
R854	1-249-429-11	CARBON	10K	5%	1/4W
△R855	1-217-151-00	RES, METAL PLATE	0.22	2W	
R856	1-249-417-11	CARBON	1K	5%	1/4W
R857	1-249-431-11	CARBON	15K	5%	1/4W
R858	1-249-441-11	CARBON	100K	5%	1/4W
△R859	1-212-958-00	FUSIBLE	10	5%	1/2W F
R860	1-249-438-11	CARBON	56K	5%	1/4W
R861	1-249-429-11	CARBON	10K	5%	1/4W
R871	1-249-417-11	CARBON	1K	5%	1/4W
R872	1-249-429-11	CARBON	10K	5%	1/4W
R873	1-249-414-11	CARBON	560	5%	1/4W
R874	1-249-429-11	CARBON	10K	5%	1/4W
△R875	1-217-151-00	RES, METAL PLATE	0.22	2W	
R876	1-249-417-11	CARBON	1K	5%	1/4W
R877	1-249-431-11	CARBON	15K	5%	1/4W
R878	1-249-441-11	CARBON	100K	5%	1/4W
△R879	1-212-958-00	FUSIBLE	10	5%	1/2W F
R880	1-249-436-11	CARBON	39K	5%	1/4W
R881	1-249-429-11	CARBON	10K	5%	1/4W
R902	1-249-429-11	CARBON	10K	5%	1/4W
△R911	1-219-134-11	FUSIBLE	0.1	5%	1/4W F
△R912	1-219-134-11	FUSIBLE	0.1	5%	1/4W F
R921	1-249-437-11	CARBON	47K	5%	1/4W
R922	1-249-405-11	CARBON	100	5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W
R941	1-249-429-11	CARBON	10K	5%	1/4W
△R942	1-212-942-00	FUSIBLE	2.2	5%	1/2W F
R943	1-249-417-11	CARBON	1K	5%	1/4W
R944	1-249-429-11	CARBON	10K	5%	1/4W
R945	1-249-441-11	CARBON	100K	5%	1/4W
R946	1-249-441-11	CARBON	100K	5%	1/4W
R947	1-249-417-11	CARBON	1K	5%	1/4W

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

AC

PANEL

POWER

POWER AMPLIFIER

VOLUME

AUDIO

Ref. No.	Part No.	Description	Remark
R951	1-249-429-11	CARBON 10K 5% 1/4W	
R952	1-249-425-11	CARBON 4.7K 5% 1/4W	
R953	1-249-405-11	CARBON 100 5% 1/4W	
R961	1-249-429-11	CARBON 10K 5% 1/4W	

< VARIABLE RESISTOR >

RV591	1-241-803-11	RES, VAR, CARBON (WITH MOTOR) 10K (VOLUME)	
RV621	1-241-813-11	RES, VAR, CARBON 50K (MIC LEVEL)	

< RELAY >

RY801	1-515-790-11	RELAY	
RY802	1-515-790-11	RELAY	
RY901	1-515-626-11	RELAY	
RY902	1-515-626-11	RELAY	

< SWITCH >

S551	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)	
S552	1-554-303-21	SWITCH, TACTILE (FUNCTION MAX >)	
S553	1-554-303-21	SWITCH, TACTILE (FUNCTION < MIN)	
S554	1-554-303-21	SWITCH, TACTILE (WAKE UP VOL SET)	
S555	1-554-303-21	SWITCH, TACTILE (DISPLAY)	
S561	1-554-303-21	SWITCH, TACTILE (MUTING) (AEP, G, IT)	
S561	1-554-303-21	SWITCH, TACTILE (KARAOKE PON) (E, AUS, EA, TR)	
S562	1-554-303-21	SWITCH, TACTILE (DIRECT)	
S563	1-554-303-21	SWITCH, TACTILE (MUSIC)	
S564	1-554-303-21	SWITCH, TACTILE (T. P. O.)	
S565	1-554-303-21	SWITCH, TACTILE (TOTAL EFFECT CONTROL +)	
S566	1-554-303-21	SWITCH, TACTILE (TOTAL EFFECT CONTROL -)	
△S901	1-572-009-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (E, EA, TR)	

- * A-4347-396-A AUDIO BOARD, COMPLETE (AEP)
- * A-4347-397-A AUDIO BOARD, COMPLETE (G, IT)
- * A-4347-398-A AUDIO BOARD, COMPLETE (E, AUS, EA, TR)

< CAPACITOR >

C101	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C102	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C103	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C111	1-164-346-11	CERAMIC CHIP 1uF 16V (E, AUS, EA, TR)	
C112	1-164-182-11	CERAMIC CHIP 0.0033uF 10% 50V (E, AUS, EA, TR)	
C113	1-163-019-00	CERAMIC CHIP 0.0068uF 10% 50V (E, AUS, EA, TR)	
C114	1-163-031-11	CERAMIC CHIP 0.01uF 50V (E, AUS, EA, TR)	

Ref. No.	Part No.	Description	Remark
C115	1-163-031-11	CERAMIC CHIP 0.01uF 50V (E, AUS, EA, TR)	
C121	1-164-346-11	CERAMIC CHIP 1uF 16V	
C122	1-164-346-11	CERAMIC CHIP 1uF 16V	
C123	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C124	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C141	1-126-157-11	ELECT 10uF 20% 16V	
C151	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C152	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C153	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C161	1-164-346-11	CERAMIC CHIP 1uF 16V (E, AUS, EA, TR)	
C162	1-164-182-11	CERAMIC CHIP 0.0033uF 10% 50V (E, AUS, EA, TR)	
C163	1-163-019-00	CERAMIC CHIP 0.0068uF 10% 50V (E, AUS, EA, TR)	
C201	1-124-907-11	ELECT 10uF 20% 50V	
C202	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C203	1-124-907-11	ELECT 10uF 20% 50V	
C204	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C205	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C206	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C207	1-164-346-11	CERAMIC CHIP 1uF 16V	
C208	1-164-346-11	CERAMIC CHIP 1uF 16V	
C210	1-124-443-00	ELECT 100uF 20% 10V	
C211	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C212	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C213	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C214	1-163-024-00	CERAMIC CHIP 0.018uF 10% 50V	
C215	1-163-019-00	CERAMIC CHIP 0.0068uF 10% 50V	
C216	1-163-014-00	CERAMIC CHIP 0.0027uF 10% 50V	
C217	1-163-010-11	CERAMIC CHIP 0.0012uF 10% 50V	
C221	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C222	1-164-343-11	CERAMIC CHIP 0.056uF 10% 25V	
C223	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C224	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C225	1-163-016-00	CERAMIC CHIP 0.0039uF 10% 50V	
C226	1-163-011-11	CERAMIC CHIP 0.0015uF 10% 50V	
C227	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
C231	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C232	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C233	1-124-443-00	ELECT 100uF 20% 10V	
C234	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C251	1-124-907-11	ELECT 10uF 20% 50V	
C252	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C253	1-124-907-11	ELECT 10uF 20% 50V	
C254	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C255	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C256	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	

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

AUDIO

Ref.No.	Part No.	Description	Remark		
C257	1-164-346-11	CERAMIC CHIP 1uF	16V		
C258	1-164-346-11	CERAMIC CHIP 1uF	16V		
C261	1-164-489-11	CERAMIC CHIP 0.22uF	10%	16V	
C262	1-164-004-11	CERAMIC CHIP 0.1uF	10%	25V	
C263	1-163-809-11	CERAMIC CHIP 0.047uF	10%	25V	
C264	1-163-024-00	CERAMIC CHIP 0.018uF	10%	50V	
C265	1-163-019-00	CERAMIC CHIP 0.0068uF	10%	50V	
C266	1-163-014-00	CERAMIC CHIP 0.0027uF	10%	50V	
C267	1-163-010-11	CERAMIC CHIP 0.0012uF	10%	50V	
C271	1-164-489-11	CERAMIC CHIP 0.22uF	10%	16V	
C272	1-164-343-11	CERAMIC CHIP 0.056uF	10%	25V	
C273	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V	
C274	1-164-232-11	CERAMIC CHIP 0.01uF		50V	
C275	1-163-016-00	CERAMIC CHIP 0.0039uF	10%	50V	
C276	1-163-011-11	CERAMIC CHIP 0.0015uF	10%	50V	
C277	1-163-007-11	CERAMIC CHIP 680PF	10%	50V	
C281	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C282	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C291	1-124-443-00	ELECT 100uF	20%	10V	
C292	1-124-443-00	ELECT 100uF	20%	10V	
C293	1-124-443-00	ELECT 100uF	20%	10V	
C294	1-124-443-00	ELECT 100uF	20%	10V	
C295	1-124-443-00	ELECT 100uF	20%	10V	
C301	1-136-165-00	FILM 0.1uF	5%	50V	
C302	1-136-165-00	FILM 0.1uF	5%	50V	
C304	1-124-903-11	ELECT 1uF	20%	50V	
C307	1-124-443-00	ELECT 100uF	20%	10V	
C310	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C311	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C331	1-124-463-00	ELECT 0.1uF	20%	50V	
C340	1-124-907-11	ELECT 10uF	20%	50V	
C351	1-136-165-00	FILM 0.1uF	5%	50V	
C352	1-136-165-00	FILM 0.1uF	5%	50V	
C354	1-124-903-11	ELECT 1uF	20%	50V	
C357	1-124-443-00	ELECT 100uF	20%	10V	
C360	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C361	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C390	1-124-907-11	ELECT 10uF	20%	50V	
C411	1-136-157-00	FILM 0.022uF	5%	50V	
C412	1-136-157-00	FILM 0.022uF	5%	50V	
C413	1-163-001-11	CERAMIC CHIP 220PF	10%	50V (G, IT)	
C413	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	
		(AEP, E, AUS, EA, TR)			
C414	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C415	1-136-165-00	FILM 0.1uF	5%	50V	
C423	1-136-165-00	FILM 0.1uF	5%	50V	
C424	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C425	1-124-907-11	ELECT 10uF	20%	50V	
C461	1-136-157-00	FILM 0.022uF	5%	50V	

Ref.No.	Part No.	Description	Remark		
C462	1-136-157-00	FILM 0.022uF	5%	50V	
C463	1-163-001-11	CERAMIC CHIP 220PF	10%	50V (G, IT)	
C463	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	
		(AEP, E, AUS, EA, TR)			
C464	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C465	1-136-165-00	FILM 0.1uF	5%	50V	
C473	1-136-165-00	FILM 0.1uF	5%	50V	
C474	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C475	1-124-907-11	ELECT 10uF	20%	50V	
C501	1-124-443-00	ELECT 100uF	20%	10V	
C502	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C503	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C504	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C505	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C506	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C511	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V	
C512	1-124-443-00	ELECT 100uF	20%	10V	
C513	1-124-443-00	ELECT 100uF	20%	10V	
C514	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C515	1-163-031-11	CERAMIC CHIP 0.01uF		50V	
C521	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C522	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C523	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V	
C524	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V	
C525	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C526	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C531	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	
C541	1-124-443-00	ELECT 100uF	20%	10V	
C542	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V	
C543	1-163-038-00	CERAMIC CHIP 0.1uF		25V	
C601	1-124-907-11	ELECT 10uF	20%	50V	
C602	1-124-443-00	ELECT 100uF	20%	10V	
C603	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C604	1-126-926-11	ELECT 1000uF	20%	10V	
C605	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C607	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C651	1-124-907-11	ELECT 10uF	20%	50V	
C652	1-124-443-00	ELECT 100uF	20%	10V	
C653	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C654	1-126-926-11	ELECT 1000uF	20%	10V	
C655	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C657	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
< CONNECTOR >					
CN201	1-566-128-11	CONNECTOR, BOARD TO BOARD 10P			
CN202	1-568-437-11	SOCKET, CONNECTOR 7P			
* CN203	1-568-832-11	SOCKET, CONNECTOR 13P			
CN204	1-573-826-11	CONNECTOR, BOARD TO BOARD 12P			
CN205	1-573-826-11	CONNECTOR, BOARD TO BOARD 12P			

Ref. No.	Part No.	Description	Remark
< DIODE >			
D231	8-719-801-78	DIODE 1SS184	
D291	8-719-801-78	DIODE 1SS184	
D292	8-719-801-78	DIODE 1SS184	
D341	8-719-801-78	DIODE 1SS184	
D342	8-719-801-78	DIODE 1SS184	
D501	8-719-801-78	DIODE 1SS184	
D502	8-719-801-78	DIODE 1SS184	
D503	8-719-801-78	DIODE 1SS184	
D504	8-719-801-78	DIODE 1SS184	
D511	8-719-801-78	DIODE 1SS184	
D512	8-719-801-78	DIODE 1SS184	
D541	8-719-801-78	DIODE 1SS184	
D601	8-719-801-78	DIODE 1SS184	
< IC >			
IC101	8-759-636-55	IC M5218AFP	
IC102	8-759-516-43	IC CD4053BCM (E, AUS, EA, TR)	
IC103	8-759-516-39	IC CD4051BCM	
IC201	8-759-636-57	IC CXA1492Q	
IC301	8-759-636-55	IC M5218AFP	
IC302	8-759-516-43	IC CD4053BCM	
IC303	8-759-516-41	IC CD4052BCM	
IC411	8-759-636-55	IC M5218AFP	
IC421	8-759-636-55	IC M5218AFP	
IC501	8-759-074-78	IC uPD78134GF-051-3B9	
IC502	8-759-500-31	IC X24C01P	
IC503	8-759-516-41	IC CD4052BCM	
IC504	8-759-991-11	IC XR1091DCP	
IC601	8-759-636-55	IC M5218AFP	
< JUMPER RESISTOR >			
JR1	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR2	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR5	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR6	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR7	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR8	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR501	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR503	1-216-295-00	METAL CHIP 0 5% 1/10W	
		(AEP, G, IT)	
JR504	1-216-295-00	METAL CHIP 0 5% 1/10W	
		(E, AUS, EA, TR)	
< TRANSISTOR >			
Q231	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q232	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q291	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q292	8-729-600-22	TRANSISTOR 2SA1235-F	

Ref. No.	Part No.	Description	Remark
Q311	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q341	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q342	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q361	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q391	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q501	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q502	8-729-805-67	TRANSISTOR 2SA1342	
Q504	8-729-805-67	TRANSISTOR 2SA1342	
Q506	8-729-805-43	TRANSISTOR 2SC3396	
Q507	8-729-805-40	TRANSISTOR 2SC3900	
Q601	8-729-620-06	TRANSISTOR 2SC3052-EF	
Q651	8-729-620-06	TRANSISTOR 2SC3052-EF	
< RESISTOR >			
R101	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R102	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R111	1-216-121-00	METAL CHIP 1M 5% 1/10W	
		(E, AUS, EA, TR)	
R112	1-216-073-00	METAL CHIP 10K 5% 1/10W	
		(E, AUS, EA, TR)	
R113	1-216-089-00	METAL CHIP 47K 5% 1/10W	
		(E, AUS, EA, TR)	
R114	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R121	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R122	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R130	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R131	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R132	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R133	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R134	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R135	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R136	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R137	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R138	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R141	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R151	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R152	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R161	1-216-121-00	METAL CHIP 1M 5% 1/10W	
		(E, AUS, EA, TR)	
R162	1-216-073-00	METAL CHIP 10K 5% 1/10W	
		(E, AUS, EA, TR)	
R163	1-216-089-00	METAL CHIP 47K 5% 1/10W	
		(E, AUS, EA, TR)	
R164	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R201	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R202	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R203	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R204	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R205	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R206	1-216-073-00	METAL CHIP 10K 5% 1/10W	

AUDIO

Ref. No.	Part No.	Description	Remark		
R207	1-216-049-00	METAL CHIP	1K	5%	1/10W
R208	1-216-049-00	METAL CHIP	1K	5%	1/10W
R209	1-216-049-00	METAL CHIP	1K	5%	1/10W
R210	1-216-049-00	METAL CHIP	1K	5%	1/10W
R211	1-216-121-00	METAL CHIP	1M	5%	1/10W
R212	1-216-121-00	METAL CHIP	1M	5%	1/10W
R213	1-216-121-00	METAL CHIP	1M	5%	1/10W
R214	1-216-121-00	METAL CHIP	1M	5%	1/10W
R215	1-216-121-00	METAL CHIP	1M	5%	1/10W
R216	1-216-121-00	METAL CHIP	1M	5%	1/10W
R217	1-216-121-00	METAL CHIP	1M	5%	1/10W
R231	1-216-073-00	METAL CHIP	10K	5%	1/10W
R232	1-216-093-00	METAL CHIP	68K	5%	1/10W
R233	1-216-049-00	METAL CHIP	1K	5%	1/10W
R234	1-216-097-00	METAL CHIP	100K	5%	1/10W
R235	1-216-049-00	METAL CHIP	1K	5%	1/10W
R236	1-216-049-00	METAL CHIP	1K	5%	1/10W
R237	1-216-049-00	METAL CHIP	1K	5%	1/10W
R238	1-216-049-00	METAL CHIP	1K	5%	1/10W
R240	1-216-295-00	METAL CHIP	0	5%	1/10W
R251	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R252	1-216-073-00	METAL CHIP	10K	5%	1/10W
R253	1-216-073-00	METAL CHIP	10K	5%	1/10W
R254	1-216-049-00	METAL CHIP	1K	5%	1/10W
R255	1-216-073-00	METAL CHIP	10K	5%	1/10W
R256	1-216-073-00	METAL CHIP	10K	5%	1/10W
R261	1-216-121-00	METAL CHIP	1M	5%	1/10W
R262	1-216-121-00	METAL CHIP	1M	5%	1/10W
R263	1-216-121-00	METAL CHIP	1M	5%	1/10W
R264	1-216-121-00	METAL CHIP	1M	5%	1/10W
R265	1-216-121-00	METAL CHIP	1M	5%	1/10W
R266	1-216-121-00	METAL CHIP	1M	5%	1/10W
R267	1-216-121-00	METAL CHIP	1M	5%	1/10W
R281	1-216-073-00	METAL CHIP	10K	5%	1/10W
R282	1-216-093-00	METAL CHIP	68K	5%	1/10W
R283	1-216-049-00	METAL CHIP	1K	5%	1/10W
R291	1-216-049-00	METAL CHIP	1K	5%	1/10W
R292	1-216-049-00	METAL CHIP	1K	5%	1/10W
R301	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R302	1-216-109-00	METAL CHIP	330K	5%	1/10W
R303	1-216-295-00	METAL CHIP	0	5%	1/10W
R304	1-216-079-00	METAL CHIP	18K	5%	1/10W
R308	1-216-105-00	METAL CHIP	220K	5%	1/10W
R309	1-216-085-00	METAL CHIP	33K	5%	1/10W
R312	1-216-095-00	METAL CHIP	82K	5%	1/10W
R313	1-216-105-00	METAL CHIP	220K	5%	1/10W
R315	1-216-121-00	METAL CHIP	1M	5%	1/10W
R316	1-216-097-00	METAL CHIP	100K	5%	1/10W
R331	1-216-097-00	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R341	1-216-121-00	METAL CHIP	1M	5%	1/10W
R342	1-216-049-00	METAL CHIP	1K	5%	1/10W
R343	1-216-049-00	METAL CHIP	1K	5%	1/10W
R344	1-216-097-00	METAL CHIP	100K	5%	1/10W
R345	1-216-073-00	METAL CHIP	10K	5%	1/10W
R351	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R352	1-216-109-00	METAL CHIP	330K	5%	1/10W
R353	1-216-295-00	METAL CHIP	0	5%	1/10W
R354	1-216-079-00	METAL CHIP	18K	5%	1/10W
R358	1-216-105-00	METAL CHIP	220K	5%	1/10W
R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R362	1-216-095-00	METAL CHIP	82K	5%	1/10W
R363	1-216-105-00	METAL CHIP	220K	5%	1/10W
R365	1-216-121-00	METAL CHIP	1M	5%	1/10W
R366	1-216-097-00	METAL CHIP	100K	5%	1/10W
R391	1-216-121-00	METAL CHIP	1M	5%	1/10W
R392	1-216-049-00	METAL CHIP	1K	5%	1/10W
R393	1-216-049-00	METAL CHIP	1K	5%	1/10W
R411	1-216-079-00	METAL CHIP	18K	5%	1/10W
R412	1-216-097-00	METAL CHIP	100K	5%	1/10W
R413	1-216-076-00	METAL CHIP	13K	5%	1/10W
R421	1-216-295-00	METAL CHIP	0	5%	1/10W
R422	1-216-295-00	METAL CHIP	0	5%	1/10W
R423	1-216-079-00	METAL CHIP	18K	5%	1/10W
R424	1-216-121-00	METAL CHIP	1M	5%	1/10W
R461	1-216-079-00	METAL CHIP	18K	5%	1/10W
R462	1-216-097-00	METAL CHIP	100K	5%	1/10W
R463	1-216-076-00	METAL CHIP	13K	5%	1/10W
R471	1-216-295-00	METAL CHIP	0	5%	1/10W
R472	1-216-295-00	METAL CHIP	0	5%	1/10W
R473	1-216-079-00	METAL CHIP	18K	5%	1/10W
R474	1-216-121-00	METAL CHIP	1M	5%	1/10W
R501	1-216-121-00	METAL CHIP	1M	5%	1/10W
R502	1-216-073-00	METAL CHIP	10K	5%	1/10W
R503	1-216-073-00	METAL CHIP	10K	5%	1/10W
R504	1-216-049-00	METAL CHIP	1K	5%	1/10W
R505	1-216-073-00	METAL CHIP	10K	5%	1/10W
R506	1-216-089-00	METAL CHIP	47K	5%	1/10W
R507	1-216-089-00	METAL CHIP	47K	5%	1/10W
R508	1-216-073-00	METAL CHIP	10K	5%	1/10W
R509	1-216-089-00	METAL CHIP	47K	5%	1/10W
R510	1-216-049-00	METAL CHIP	1K	5%	1/10W
R511	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R512	1-216-049-00	METAL CHIP	1K	5%	1/10W
R513	1-216-009-00	METAL CHIP	22	5%	1/10W
R514	1-216-009-00	METAL CHIP	22	5%	1/10W
R521	1-216-049-00	METAL CHIP	1K	5%	1/10W
R522	1-216-049-00	METAL CHIP	1K	5%	1/10W
R523	1-216-049-00	METAL CHIP	1K	5%	1/10W

AUDIO

BRIDGE

CONNECTOR (A)

CONNECTOR (B)

JACK

SPEAKER

TRANSFORMER (A)

TRANSFORMER (B)

TRANSFORMER (C)

Ref. No.	Part No.	Description	Remark		
R524	1-216-049-00	METAL CHIP	1K	5%	1/10W
R525	1-216-049-00	METAL CHIP	1K	5%	1/10W
R526	1-216-049-00	METAL CHIP	1K	5%	1/10W
R527	1-216-049-00	METAL CHIP	1K	5%	1/10W
R531	1-216-049-00	METAL CHIP	1K	5%	1/10W
R532	1-216-049-00	METAL CHIP	1K	5%	1/10W
R533	1-216-049-00	METAL CHIP	1K	5%	1/10W
R534	1-216-049-00	METAL CHIP	1K	5%	1/10W
R535	1-216-049-00	METAL CHIP	1K	5%	1/10W
R536	1-216-049-00	METAL CHIP	1K	5%	1/10W
R537	1-216-049-00	METAL CHIP	1K	5%	1/10W
R538	1-216-049-00	METAL CHIP	1K	5%	1/10W
R541	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R542	1-216-097-00	METAL CHIP	100K	5%	1/10W
R543	1-216-049-00	METAL CHIP	1K	5%	1/10W
R601	1-216-075-00	METAL CHIP	12K	5%	1/10W
R602	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R603	1-216-075-00	METAL CHIP	12K	5%	1/10W
R604	1-216-017-00	METAL CHIP	47	5%	1/10W
R605	1-216-049-00	METAL CHIP	1K	5%	1/10W
R606	1-216-049-00	METAL CHIP	1K	5%	1/10W
R607	1-216-121-00	METAL CHIP	1M	5%	1/10W
R608	1-216-097-00	METAL CHIP	100K	5%	1/10W
R651	1-216-075-00	METAL CHIP	12K	5%	1/10W
R652	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R653	1-216-075-00	METAL CHIP	12K	5%	1/10W
R654	1-216-017-00	METAL CHIP	47	5%	1/10W
R655	1-216-049-00	METAL CHIP	1K	5%	1/10W
R656	1-216-049-00	METAL CHIP	1K	5%	1/10W
R657	1-216-121-00	METAL CHIP	1M	5%	1/10W
R658	1-216-097-00	METAL CHIP	100K	5%	1/10W

< VIBRATOR >

X501 1-577-364-11 VIBRATOR, CERAMIC (12MHz)

Ref. No.	Part No.	Description	Remark		
*	1-642-446-11	BRIDGE BOARD *****			
*	1-642-447-11	CONNECTOR (A) BOARD *****			
*	1-642-448-11	CONNECTOR (B) BOARD *****			
*	1-642-444-11	JACK BOARD *****			
*	1-642-445-11	SPEAKER BOARD *****			
*	1-642-449-11	TRANSFORMER (A) BOARD *****			
*	1-642-450-11	TRANSFORMER (B) BOARD *****			
*	1-642-451-11	TRANSFORMER (C) BOARD *****			
< CAPACITOR >					
C401	1-162-282-31	CERAMIC	100PF	10%	50V
C451	1-162-282-31	CERAMIC	100PF	10%	50V
C891	1-164-159-11	CERAMIC	0.1uF		50V (G, IT)
C892	1-164-159-11	CERAMIC	0.1uF		50V (G, IT)
C893	1-164-159-11	CERAMIC	0.1uF		50V (G, IT)
C894	1-164-159-11	CERAMIC	0.1uF		50V (G, IT)
C895	1-162-290-31	CERAMIC	470PF	10%	50V
C896	1-162-290-31	CERAMIC	470PF	10%	50V
C897	1-162-290-31	CERAMIC	470PF	10%	50V
C898	1-162-290-31	CERAMIC	470PF	10%	50V
< CONNECTOR >					
CN101	1-563-311-11	CONNECTOR, BOARD TO BOARD	10P		
CN102	1-573-826-11	CONNECTOR, BOARD TO BOARD	12P		
* CN311	1-573-844-31	CONNECTOR, BOARD TO BOARD	12P		
* CN312	1-573-844-31	CONNECTOR, BOARD TO BOARD	12P		
* CN401	1-573-844-11	CONNECTOR, BOARD TO BOARD	12P		
* CN402	1-573-844-11	CONNECTOR, BOARD TO BOARD	12P		
* CN403	1-573-844-11	CONNECTOR, BOARD TO BOARD	12P		
CN404	1-568-860-11	SOCKET, CONNECTOR	17P		
* CN405	1-568-850-11	SOCKET, CONNECTOR	7P		
* CN411	1-580-739-11	SOCKET, CONNECTOR	15P (SYSTEM CONTROL 1)		
* CN412	1-580-740-11	SOCKET, CONNECTOR	17P (SYSTEM CONTROL 2)		
CN701	1-563-311-11	CONNECTOR, BOARD TO BOARD	10P		
* CN702	1-564-518-11	PLUG, CONNECTOR	3P		
CN821	1-573-094-11	SOCKET, CONNECTOR	13P		
CN822	1-573-094-11	SOCKET, CONNECTOR	13P		
* CN911	1-580-939-11	SOCKET, CONNECTOR	4P		
* CN912	1-580-939-11	SOCKET, CONNECTOR	4P (E, EA, TR)		
CN913	1-569-493-11	SOCKET, CONNECTOR	7P		
* CN914	1-569-502-11	PIN, CONNECTOR	7P		
CN921	1-569-496-11	SOCKET, CONNECTOR	10P		
* CN922	1-569-502-11	PIN, CONNECTOR	7P		

BRIDGE

CONNECTOR (A)

CONNECTOR (B)

JACK

SPEAKER

TRANSFORMER (A)

TRANSFORMER (B)

TRANSFORMER (C)

Ref. No.	Part No.	Description	Remark
CN931	1-569-493-11	SOCKET, CONNECTOR 7P	
CN932	1-569-493-11	SOCKET, CONNECTOR 7P	
< JACK >			
J401	1-565-304-11	JACK, PIN 4P (ADAPTOR) (E, AUS, EA, TR)	
J402	1-569-662-11	JACK, PIN 1P (SUPER WOOFER OUT)	
J801	1-573-110-11	JACK, PIN 2P (SURROUND SPEAKER)	
< RESISTOR >			
R401	1-249-417-11	CARBON 1K 5% 1/4W	
R451	1-249-417-11	CARBON 1K 5% 1/4W	
R891	1-247-727-11	CARBON 10 5% 1/2W (G, IT)	
R892	1-247-727-11	CARBON 10 5% 1/2W (G, IT)	
R893	1-247-727-11	CARBON 10 5% 1/2W (G, IT)	
R894	1-247-727-11	CARBON 10 5% 1/2W (G, IT)	
< TERMINAL >			
TB801	1-537-336-11	TERMINAL BOARD (SPEAKER)	

MISCELLANEOUS			

7	1-690-994-11	WIRE (FLAT TYPE) (17 CORE)	
25	1-690-993-11	WIRE (FLAT TYPE) (13 CORE)	
27	1-690-992-11	WIRE (FLAT TYPE) (7 CORE)	
31	1-590-240-11	WIRE, FLAT TYPE (7 CORE)	
32	1-535-706-11	PLUG, JUMPER (E, AUS, EA, TR)	
△F901	1-532-259-00	FUSE (T1.6A)	
△F902	1-532-237-00	FUSE, TIME LAG (T3.15A) (E, EA, TR)	
M801	1-541-953-11	MOTOR, DC FAN	
△PT901	1-450-893-11	TRANSFORMER, POWER (AEP, G, IT)	
△PT901	1-450-894-11	TRANSFORMER, POWER (AUS)	
△PT901	1-450-895-21	TRANSFORMER, POWER (E, EA, TR)	

HARDWARE LIST			

#1	7-682-547-04	SCREW +BVTT 3X6 (S)	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
#4	7-682-547-09	SCREW +BVTT 3X6 (S)	
#5	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	

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