

TA-DX8

SERVICE MANUAL

*E Model
Australian Model*



TA-DX8 is the amplifier section in
MHC-DX8, MHC-VX88.

SPECIFICATIONS

The following measured at AC 120, 220, 240V
50/60 Hz

DIN power output (rated) 75 + 75 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
100 + 100 watts
(6 ohms at 1 kHz,
10% THD)

Inputs

SATELLITE SPEAKER: accepts impedance of 6 to
16 ohms

General

Power requirements

Australian models: 230 - 240 V AC, 50/60 Hz

Mexican models: 120 V AC, 60 Hz

Other models: 120 V, 220 V or 230 - 240
V AC, 50/60 Hz
Adjustable with voltage
selector

Power consumption 180 watts

Dimensions (w/h/d) Approx. 150 x 360 x 360
mm

Mass : Approx. 5.5 kg

Design and specifications are subject to change
without notice.

INTEGRATED STEREO AMPLIFIER

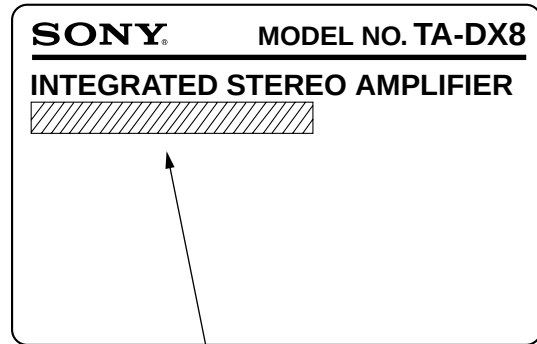
SONY®

TABLE OF CONTENTS

1. GENERAL	3
2. DISASSEMBLY	4
3. DIAGRAMS	
3-1. Note for Printed Wiring Boards and Schematic Diagrams	5
3-2. Printed Wiring Board – MAIN Board –	6
3-3. Schematic Diagram – MAIN Board –	7
3-4. Printed Wiring Boards – PANEL/PRIMARY/SECONDARY Boards –	8
3-5. Schematic Diagram – PANEL/PRIMARY/SECONDARY Boards –	9
4. EXPLODED VIEW	10
5. ELECTRICAL PARTS LIST	10

MODEL IDENTIFICATION

– REAR VIEW –



Mexican model : AC: 120V ~ 60Hz

Australian model: AC: 230 – 240V ~ 50/60Hz

Other models : AC: 120/220/230 – 240V ~ 50/60Hz

Notes on chip component replacement

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

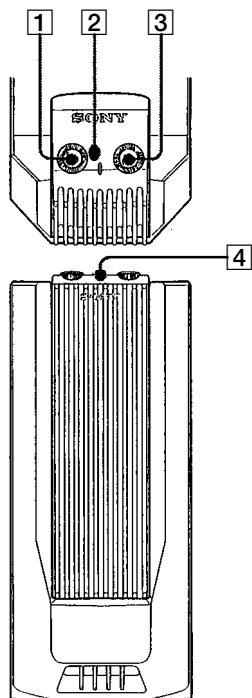
SAFETY-RELATED COMPONENT WARNING!!

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

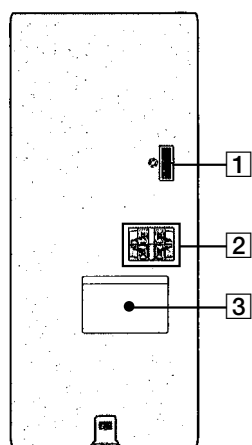
• LOCATION OF CONTROLS

– Front and Top view –



- 1** SATELLITE MODE switch
- 2** ON/OFF switch
- 3** SATELLITE LEVEL control
- 4** Indicator

– Rear view –

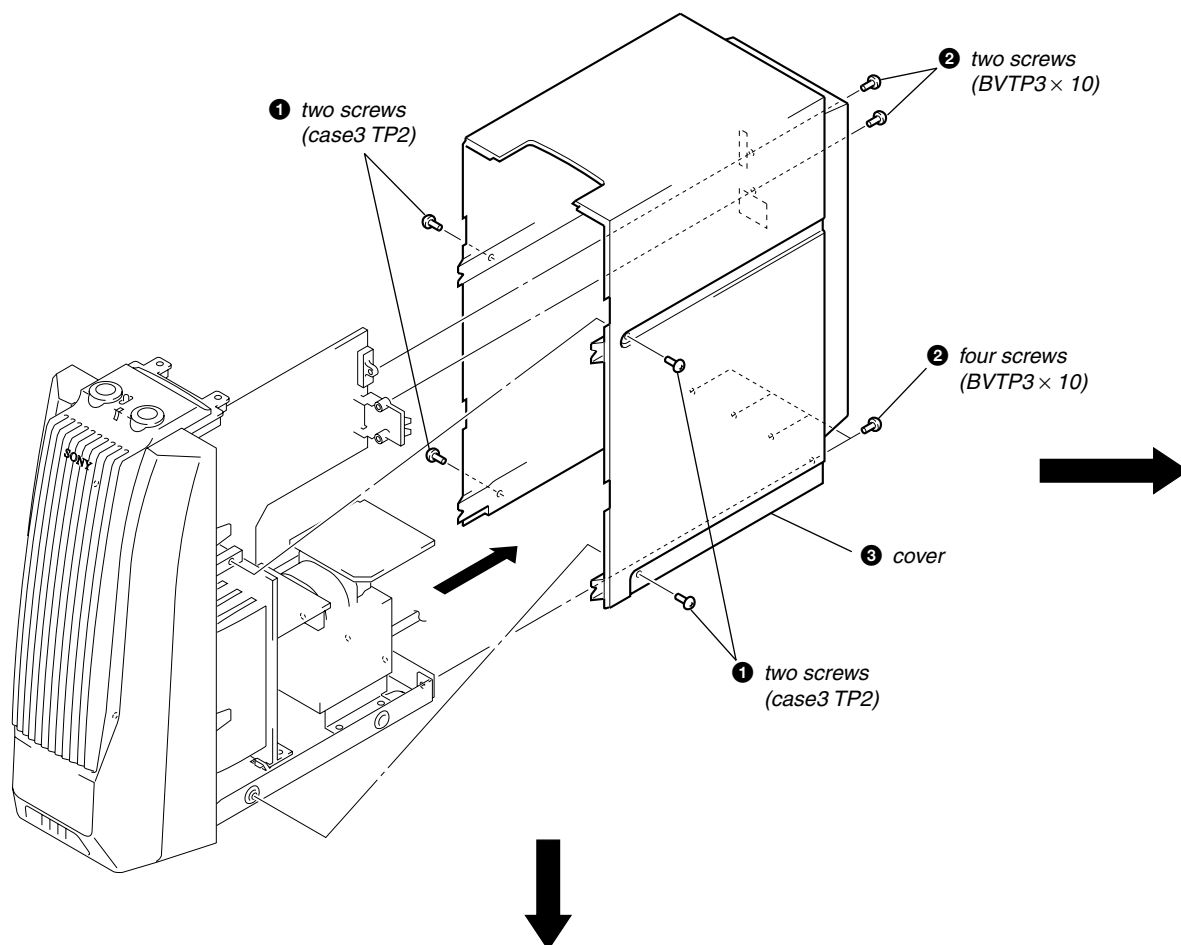


- 1** SYSTEM CONTROL connector
- 2** SPEAKER terminal
- 3** VOLTAGE SELECTOR switch
(EXCEPT Mexican and Australian models)

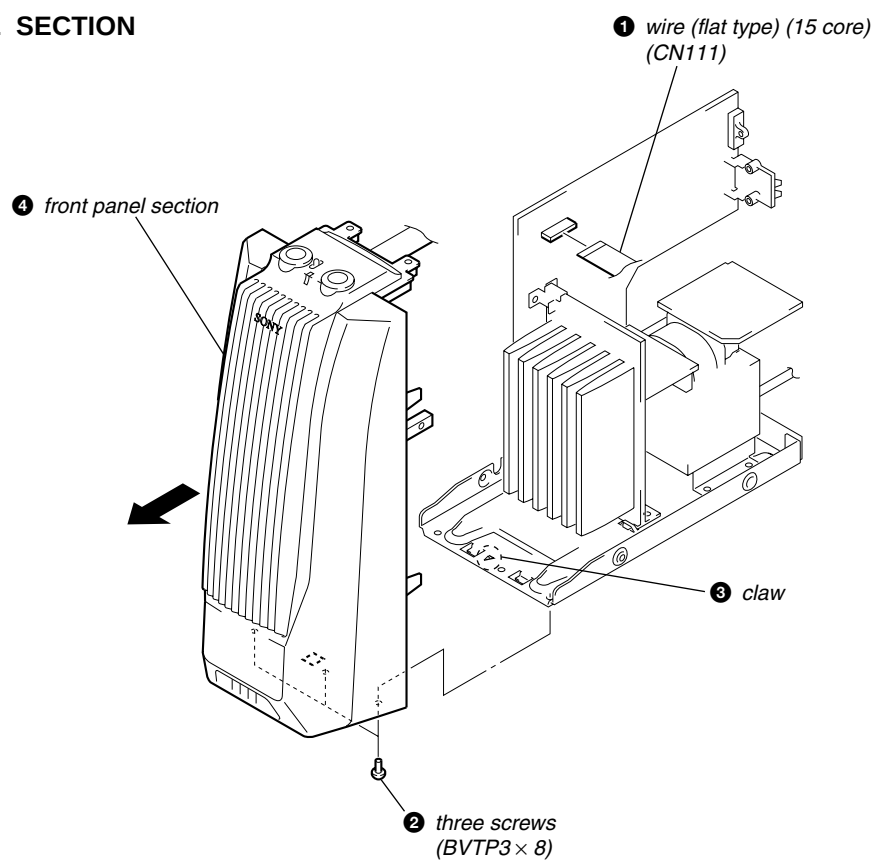
SECTION 2 DISASSEMBLY

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

COVER

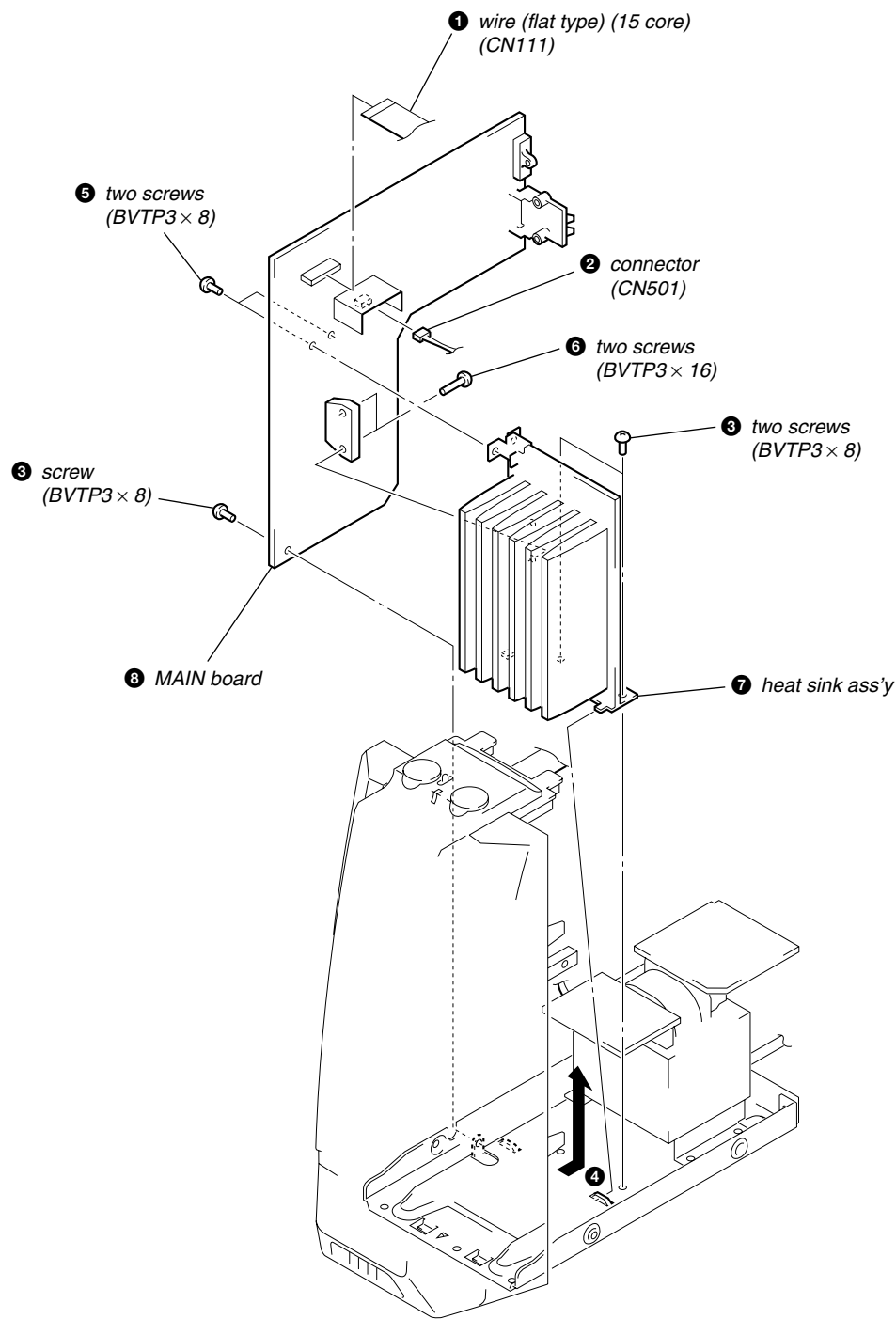


FRONT PANEL SECTION



SECTION 3
DIAGRAMS

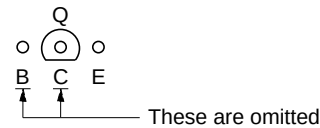
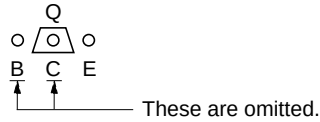
MAIN BOARD



3-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- — : parts extracted from the component side.
- : parts extracted from the conductor side.
- ▨ : Pattern from the side which enables seeing.
- Indication of transistor.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μF
- 50 WV 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.
- ▨ : nonflammable resistor.
- ▨ : fusible resistor.
- ▭ : panel designation.

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

- $\boxed{B+}$: B+ Line.
- $\boxed{B-}$: B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- $\Rightarrow$: AUDIO
- Abbreviation
- AUS : Australian model
- IA : Indonesian model
- MX : Mexican model

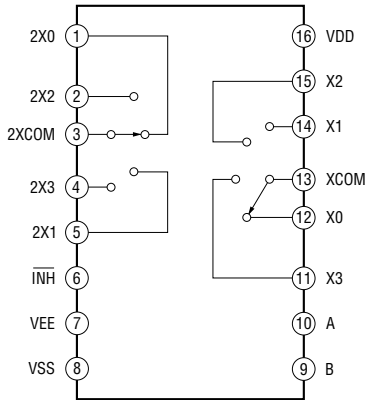
3-2. PRINTED WIRING BOARD – MAIN Board –

• Semiconductor Location

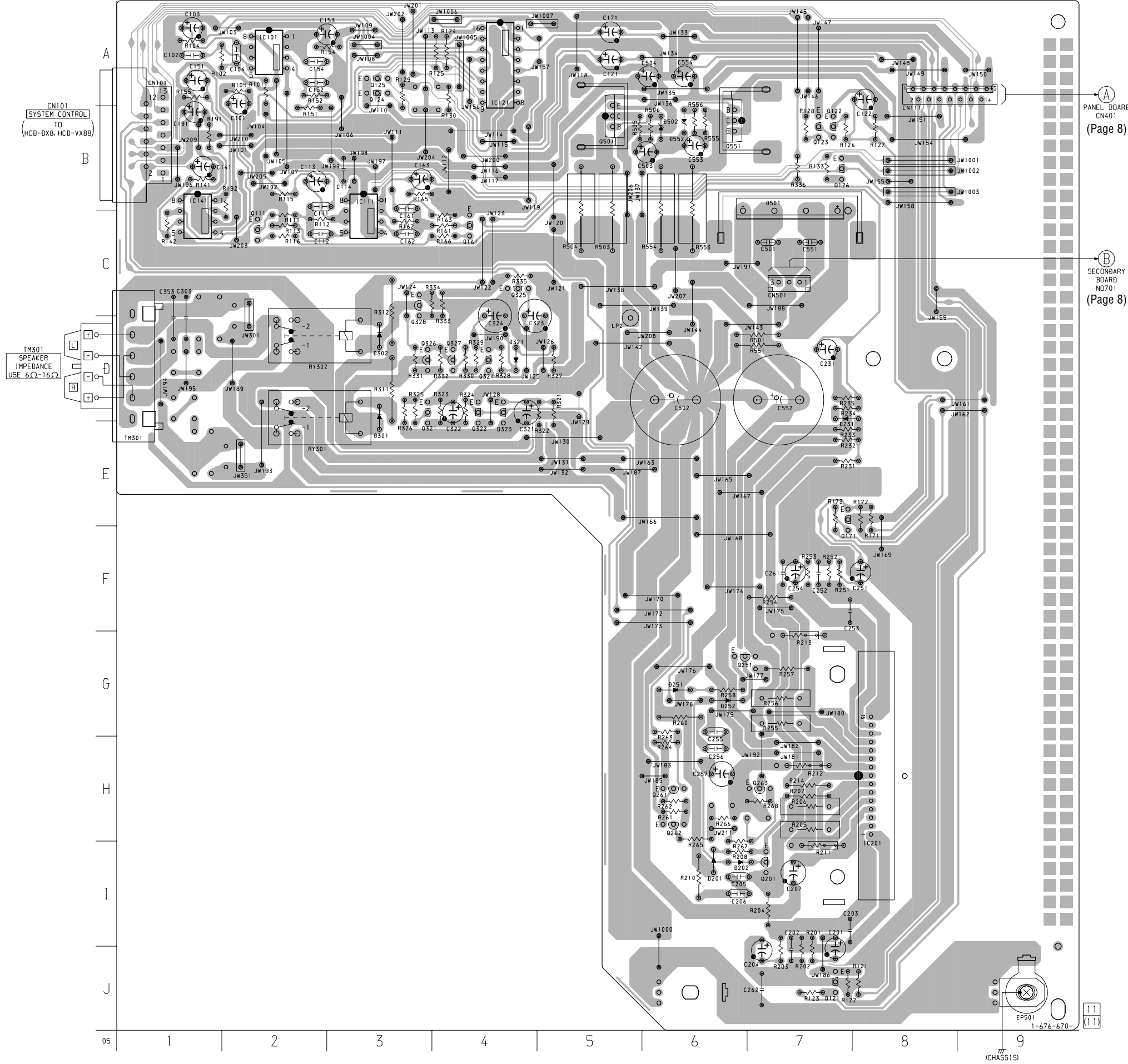
Ref. No.	Location
D201	I-6
D202	I-6
D231	D-7
D251	G-6
D252	G-6
D301	D-3
D302	D-3
D321	D-4
D501	B-7
D502	B-6
D552	B-6
IC101	A-2
IC111	B-3
IC121	A-4
IC141	B-1
IC201	H-8
Q111	C-2
Q121	J-7
Q122	B-7
Q123	B-7
Q124	A-3
Q125	A-3
Q126	B-7
Q161	C-4
Q171	E-7
Q201	I-7
Q251	G-6
Q261	H-6
Q262	H-6
Q263	H-7
Q321	D-3
Q322	D-4
Q323	D-4
Q324	D-4
Q325	C-4
Q326	D-3
Q327	D-4
Q328	C-3
Q501	B-5
Q551	B-6

• IC Block Diagram
– MAIN Board –

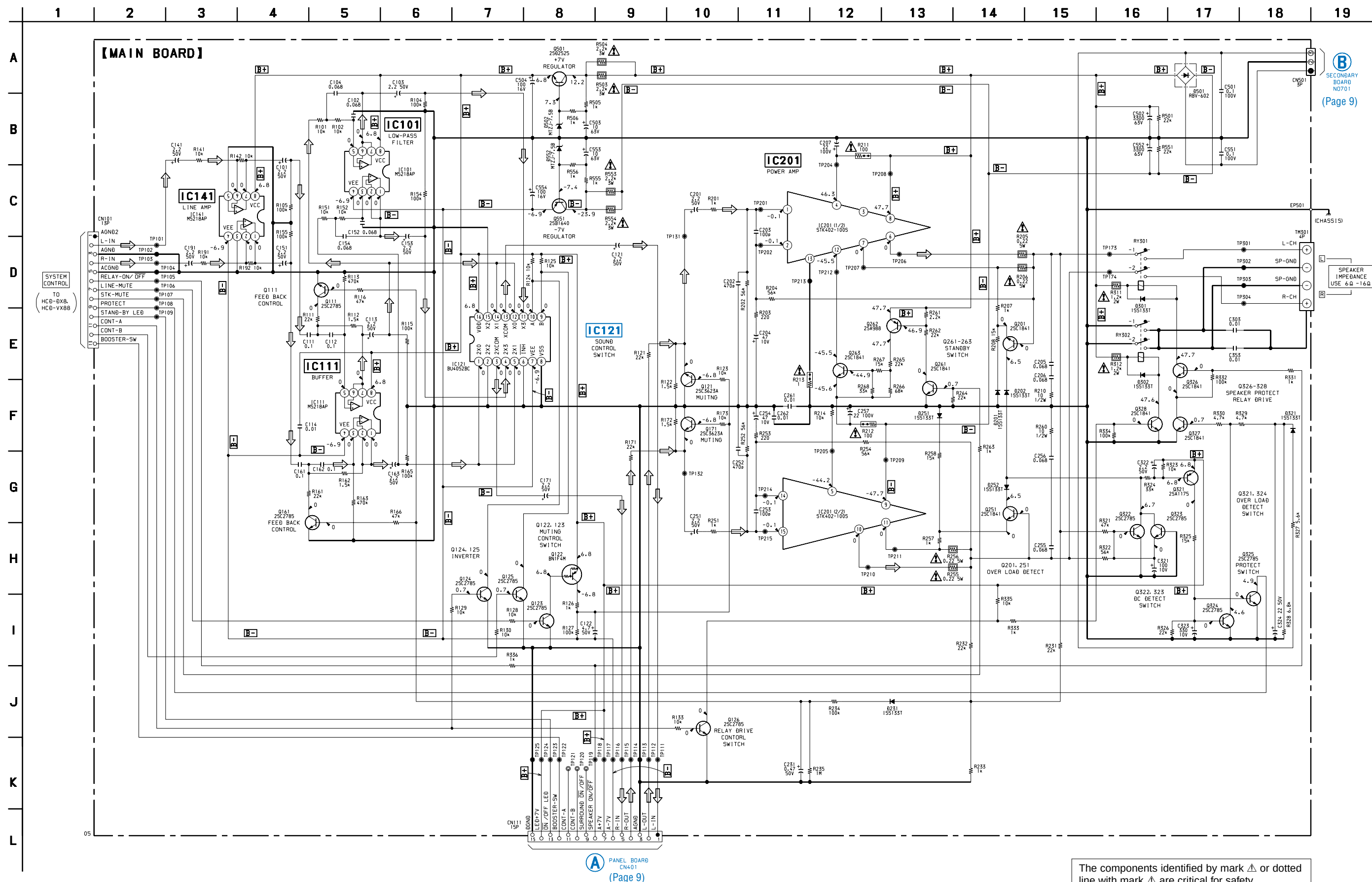
IC121 TC4052BPHB



【MAIN BOARD】



3-3. SCHEMATIC DIAGRAM – MAIN Board –

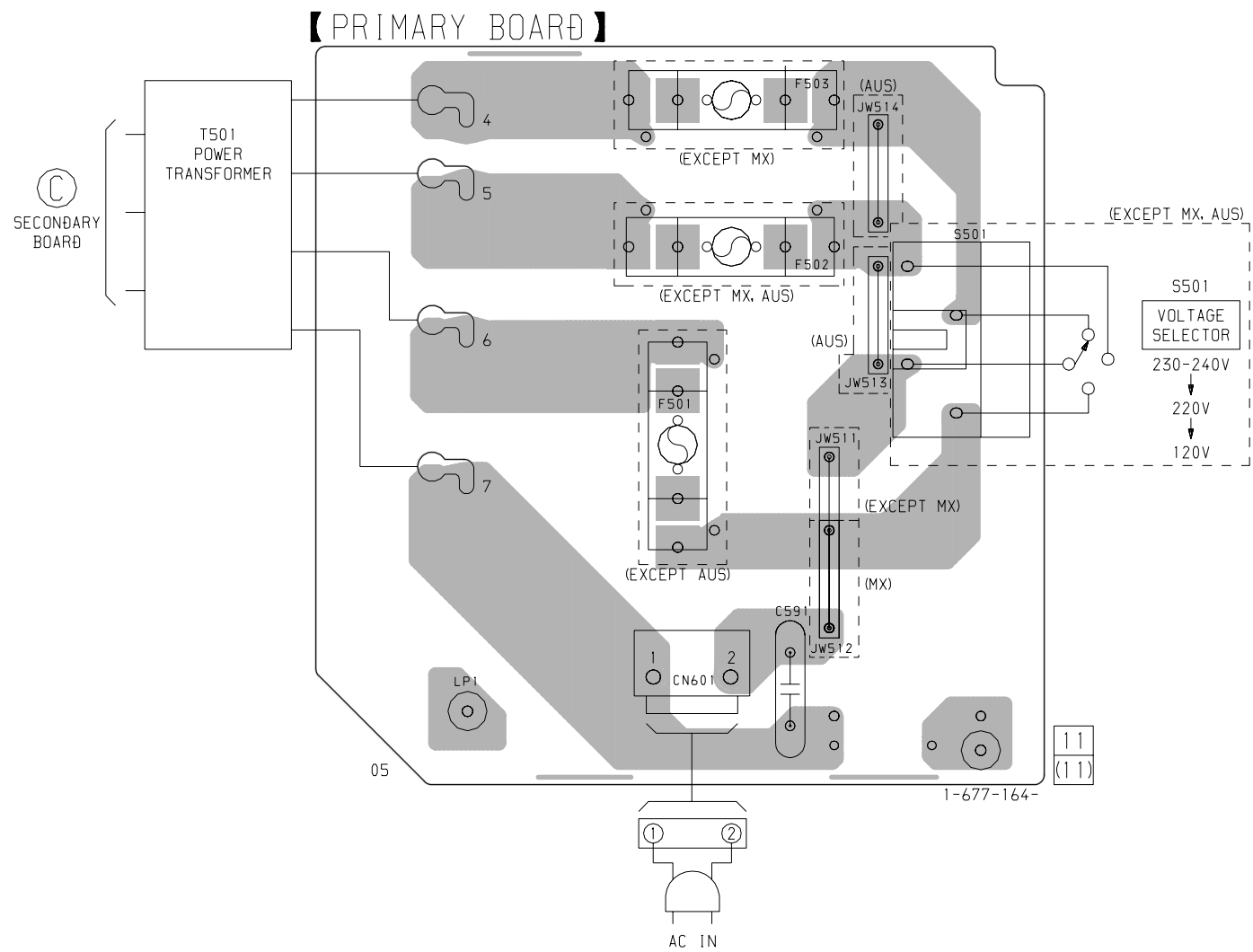
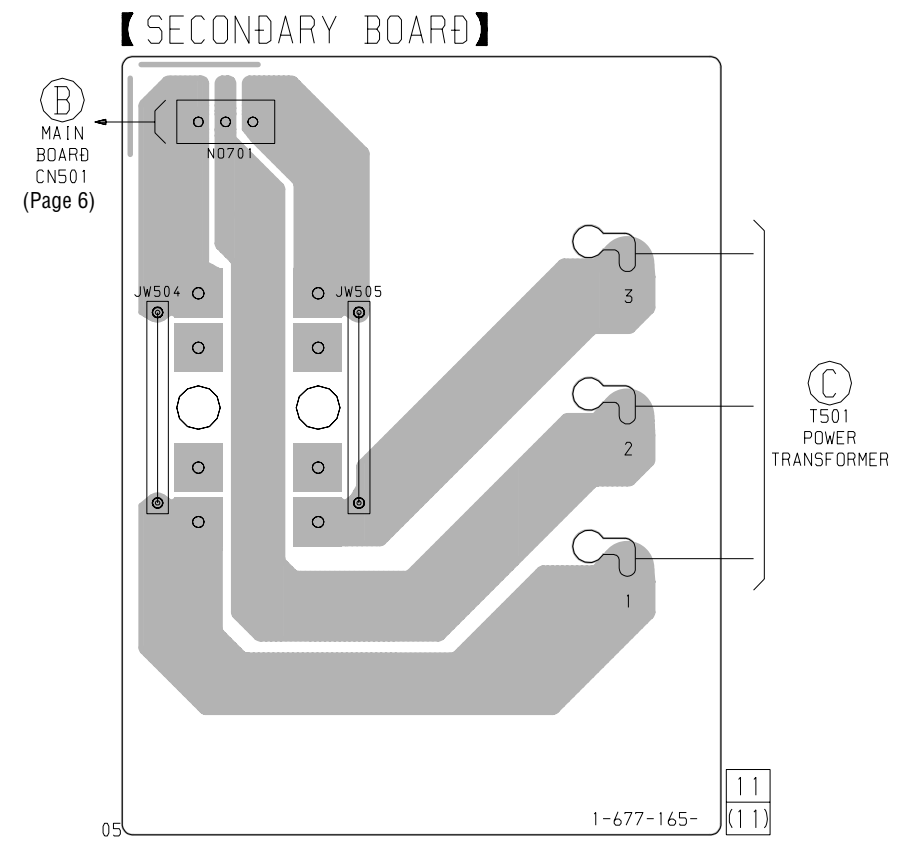
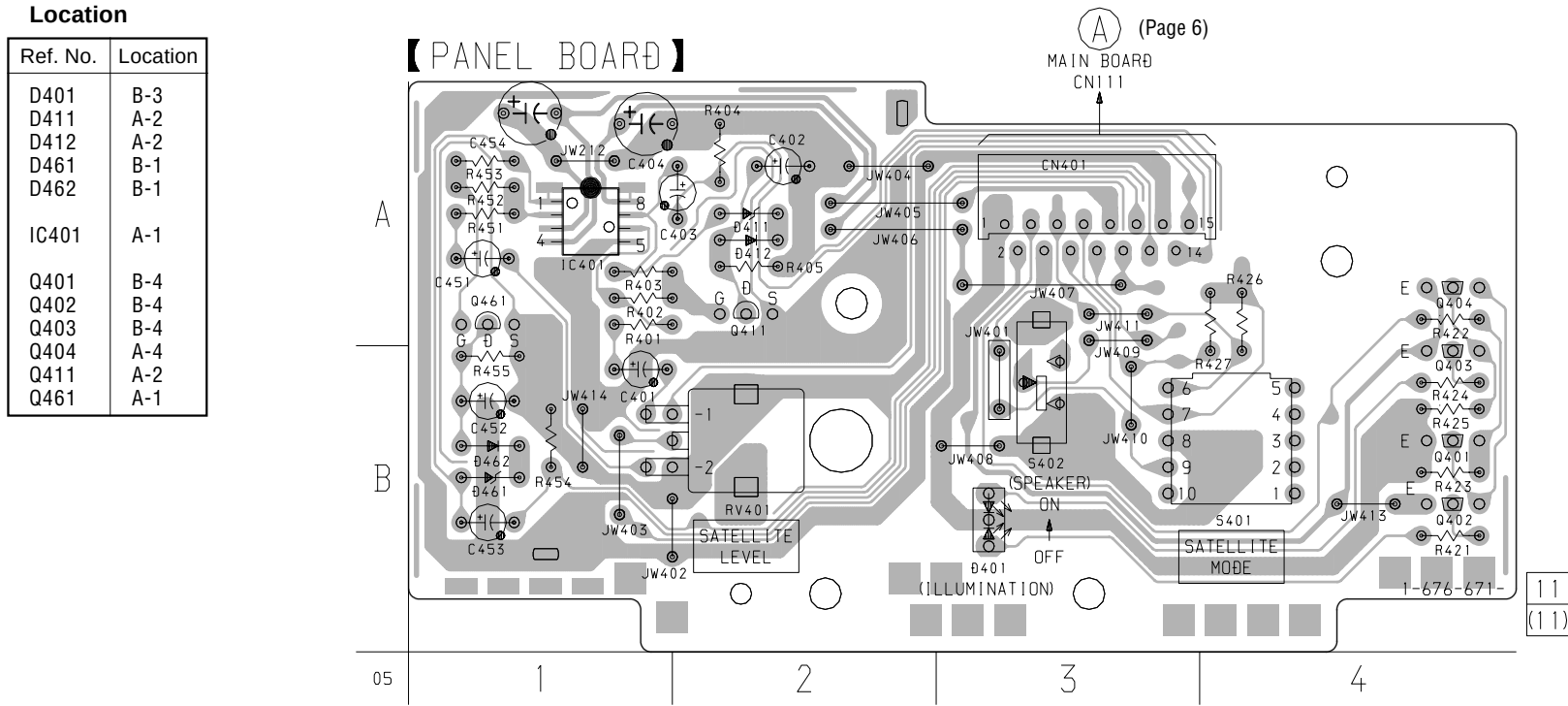


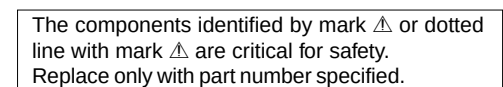
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

3-4. PRINTED WIRING BOARDS – PANEL/PRIMARY/SECONDARY Boards –

Semiconductor Location

Ref. No.	Location
D401	B-3
D411	A-2
D412	A-2
D461	B-1
D462	B-1
IC401	A-1
Q401	B-4
Q402	B-4
Q403	B-4
Q404	A-4
Q411	A-2
Q461	A-1



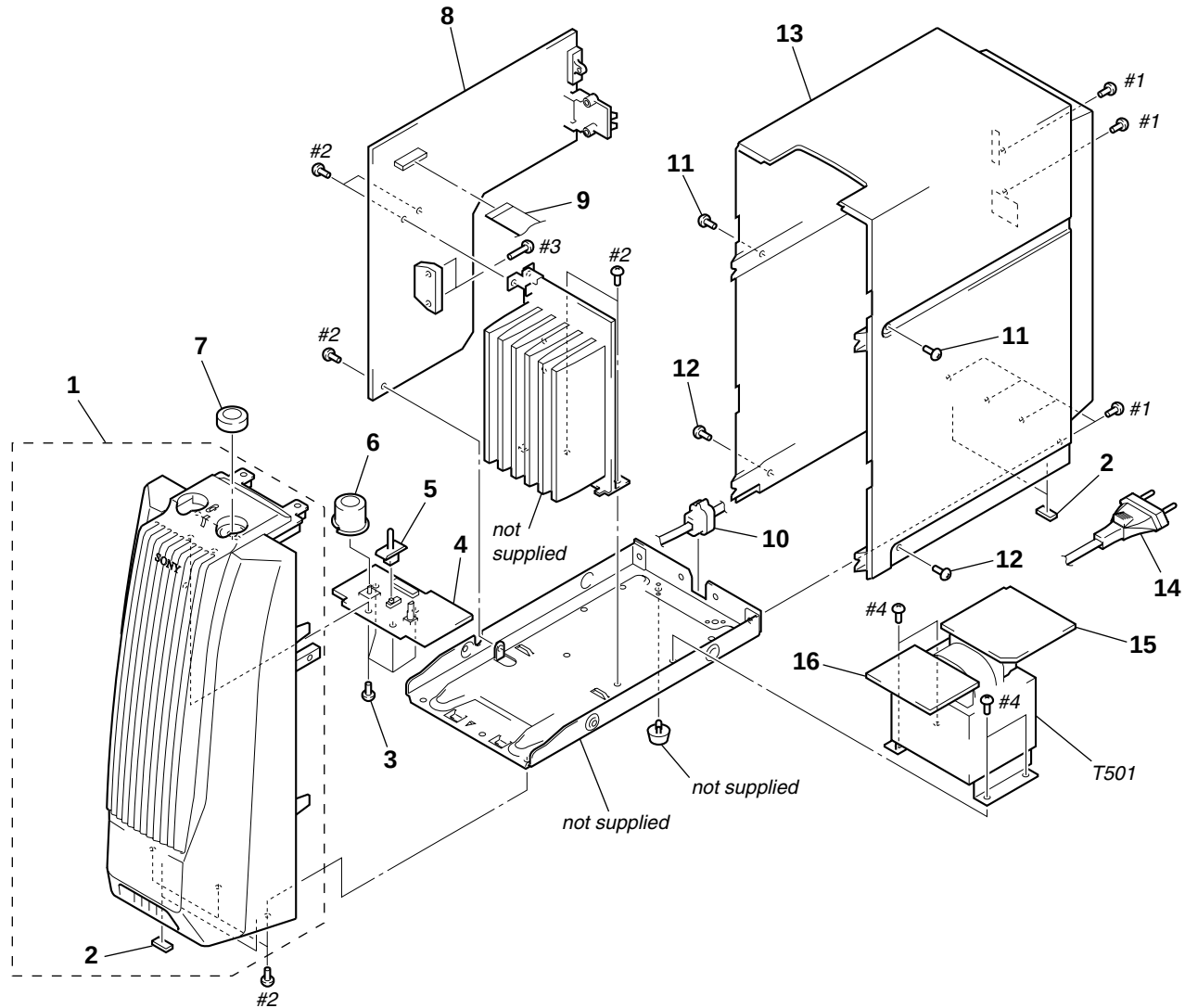


SECTION 4
EXPLODED VIEW

- NOTE:
- XX and -X mean standardized parts, so they may have some difference from the original one.
 - Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
Parts Color Cabinet's Color
 - Abbreviation
AR : Argentine model MY : Malaysia model
AUS : Australian model MX : Mexican model
EA : Saudi Arabia model SP : Singapore model
IA : Indonesian model

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

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



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4952-763-1	FRONT PANEL ASSY (SILVER)		8	A-4428-760-A	MAIN BOARD, COMPLETE	
1	X-4952-939-1	FRONT PANEL ASSY (BLACK)		9	1-773-012-11	WIRE (FLAT TYPE) (15 CORE)	
2	4-225-252-01	CUSHION (FOOT)		* 10	3-703-244-00	BUSHING (2104), CORD	
3	4-951-620-01	SCREW (2.6X8), +BVTP		11	3-363-099-41	SCREW (CASE 3 TP2)	
4	A-4428-759-A	PANEL BOARD, COMPLETE		12	3-363-099-01	SCREW (CASE 3 TP2)	
5	4-227-524-01	KNOB (SLIDE) (SILVER)		13	4-227-526-01	COVER (E, EA, MY, SP, IA, AR)	
5	4-227-524-11	KNOB (SLIDE) (PURPLE)		13	4-227-526-11	COVER (MX, AUS)	
6	4-227-523-01	KNOB (SS) (SILVER)		Δ 14	1-575-651-11	CORD, POWER	
6	4-227-523-11	KNOB (SS) (PURPLE)		15	1-677-164-11	PRIMARY BOARD	
7	4-227-522-01	KNOB (V) (SILVER)		16	1-677-165-11	SECONDARY BOARD	
7	4-227-522-11	KNOB (V) (PURPLE)		Δ T501	1-435-316-11	TRANSFORMER, POWER	

MAIN

- NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
 - XX and -X mean standardized parts, so they may have some difference from the original one.
 - RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
 - Abbreviation
AUS : Australian model
MX : Mexican model

Ref. No.	Part No.	Description	Remark
	A-4428-760-A	MAIN BOARD, COMPLETE	

	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< CAPACITOR >	
C101	1-126-961-11	ELECT 2.2uF 20% 50V	
C102	1-136-495-11	MYLAR 0.068uF 5% 50V	
C103	1-126-961-11	ELECT 2.2uF 20% 50V	
C104	1-136-495-11	MYLAR 0.068uF 5% 50V	
C111	1-136-165-00	MYLAR 0.1uF 5% 50V	
C112	1-136-165-00	MYLAR 0.1uF 5% 50V	
C113	1-126-961-11	ELECT 2.2uF 20% 50V	
C114	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C121	1-126-961-11	ELECT 2.2uF 20% 50V	
C122	1-126-963-11	ELECT 4.7uF 20% 50V	
C141	1-126-961-11	ELECT 2.2uF 20% 50V	
C151	1-126-961-11	ELECT 2.2uF 20% 50V	
C152	1-136-495-11	MYLAR 0.068uF 5% 50V	
C153	1-126-961-11	ELECT 2.2uF 20% 50V	
C154	1-136-495-11	MYLAR 0.068uF 5% 50V	
C161	1-136-165-00	MYLAR 0.1uF 5% 50V	
C162	1-136-165-00	MYLAR 0.1uF 5% 50V	
C163	1-126-961-11	ELECT 2.2uF 20% 50V	
C171	1-126-961-11	ELECT 2.2uF 20% 50V	
C191	1-126-961-11	ELECT 2.2uF 20% 50V	
C201	1-126-961-11	ELECT 2.2uF 20% 50V	
C202	1-162-290-31	CERAMIC 470PF 10% 50V	
C203	1-162-282-31	CERAMIC 100PF 10% 50V	
C204	1-104-664-11	ELECT 47uF 20% 10V	
C205	1-136-495-11	MYLAR 0.068uF 5% 50V	
C206	1-136-495-11	MYLAR 0.068uF 5% 50V	
C207	1-128-560-11	ELECT 22uF 20% 100V	
C231	1-126-959-11	ELECT 0.47uF 20% 50V	
C251	1-126-961-11	ELECT 2.2uF 20% 50V	
C252	1-162-290-31	CERAMIC 470PF 10% 50V	
C253	1-162-282-31	CERAMIC 100PF 10% 50V	
C254	1-104-664-11	ELECT 47uF 20% 10V	
C255	1-136-495-11	MYLAR 0.068uF 5% 50V	
C256	1-136-495-11	MYLAR 0.068uF 5% 50V	
C257	1-128-560-11	ELECT 22uF 20% 100V	
C261	1-162-306-11	CERAMIC 0.01uF 30% 16V	

SECTION 5
ELECTRICAL PARTS LIST

- 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.

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

Ref. No.	Part No.	Description	Remark
C262	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C303	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C321	1-104-665-11	ELECT 100uF 20% 10V	
C322	1-126-961-11	ELECT 2.2uF 20% 50V	
C323	1-126-924-11	ELECT 330uF 20% 10V	
C324	1-126-965-11	ELECT 22uF 20% 50V	
C353	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C501	1-130-777-00	MYLAR 0.1uF 10% 100V	
C502	1-127-752-11	ELECT 3300uF 20% 63V	
C503	1-128-582-11	ELECT 10uF 20% 63V	
C504	1-126-933-11	ELECT 100uF 20% 16V	
C551	1-130-777-00	MYLAR 0.1uF 10% 100V	
C552	1-127-752-11	ELECT 3300uF 20% 63V	
C553	1-128-582-11	ELECT 10uF 20% 63V	
C554	1-126-933-11	ELECT 100uF 20% 16V	
		< CONNECTOR >	
* CN101	1-565-291-11	SOCKET, CONNECTOR 13P (SYSTEM CONTROL)	
CN111	1-784-776-11	CONNECTOR, FFC 15P	
* CN501	1-564-506-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D201	8-719-911-19	DIODE 1SS119-25	
D202	8-719-911-19	DIODE 1SS119-25	
D231	8-719-911-19	DIODE 1SS119-25	
D251	8-719-911-19	DIODE 1SS119-25	
D252	8-719-911-19	DIODE 1SS119-25	
D301	8-719-911-19	DIODE 1SS119-25	
D302	8-719-911-19	DIODE 1SS119-25	
D321	8-719-911-19	DIODE 1SS119-25	
D501	8-719-302-38	DIODE RBV-602-01	
D502	8-719-921-63	DIODE MTZJ-7.5B	
D552	8-719-921-63	DIODE MTZJ-7.5B	
		< IC >	
IC101	8-759-634-51	IC M5218AP	
IC111	8-759-634-51	IC M5218AP	
IC121	8-759-208-08	IC TC4052BPHB	
IC141	8-759-634-51	IC M5218AP	
IC201	8-749-016-95	IC STK402-100S	

Ref. No.	Part No.	Description					Remark	Ref. No.	Part No.	Description				Remark
< TRANSISTOR >								R166	1-249-437-11	CARBON	47K	5%	1/4W	
Q111	8-729-119-78	TRANSISTOR	2SC2785-HFE					R171	1-249-433-11	CARBON	22K	5%	1/4W	
Q121	8-729-141-30	TRANSISTOR	2SC3623ATP-LK					R172	1-249-419-11	CARBON	1.5K	5%	1/4W	
Q122	8-729-900-63	TRANSISTOR	DTA124ES					R173	1-249-429-11	CARBON	10K	5%	1/4W	
Q123	8-729-119-78	TRANSISTOR	2SC2785-HFE					R191	1-249-429-11	CARBON	10K	5%	1/4W	
Q124	8-729-119-78	TRANSISTOR	2SC2785-HFE					R192	1-249-429-11	CARBON	10K	5%	1/4W	
Q125	8-729-119-78	TRANSISTOR	2SC2785-HFE					R201	1-249-417-11	CARBON	1K	5%	1/4W	
Q126	8-729-119-78	TRANSISTOR	2SC2785-HFE					R202	1-249-438-11	CARBON	56K	5%	1/4W	
Q161	8-729-119-78	TRANSISTOR	2SC2785-HFE					R203	1-249-409-11	CARBON	220	5%	1/4W	
Q171	8-729-141-30	TRANSISTOR	2SC3623ATP-LK					R204	1-249-438-11	CARBON	56K	5%	1/4W	
Q201	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA					△ R205	1-220-893-11	METAL	0.22	10%	5W	F
Q251	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA					△ R206	1-220-893-11	METAL	0.22	10%	5W	F
Q261	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA					R207	1-249-417-11	CARBON	1K	5%	1/4W	
Q262	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA					R208	1-249-431-11	CARBON	15K	5%	1/4W	
Q263	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA					R210	1-260-076-11	CARBON	10	5%	1/2W	
Q321	8-729-119-76	TRANSISTOR	2SA1175-HFE					△ R211	1-212-881-11	FUSIBLE	100	5%	1/4W	F
Q322	8-729-119-78	TRANSISTOR	2SC2785-HFE					△ R212	1-212-881-11	FUSIBLE	100	5%	1/4W	F
Q323	8-729-119-78	TRANSISTOR	2SC2785-HFE					△ R213	1-202-972-61	FUSIBLE	1	5%	1/4W	F
Q324	8-729-119-78	TRANSISTOR	2SC2785-HFE					R214	1-249-429-11	CARBON	10K	5%	1/4W	
Q325	8-729-119-78	TRANSISTOR	2SC2785-HFE					R231	1-249-433-11	CARBON	22K	5%	1/4W	
Q326	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA					R232	1-249-433-11	CARBON	22K	5%	1/4W	
Q327	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA					R233	1-249-417-11	CARBON	1K	5%	1/4W	
Q328	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA					R234	1-249-441-11	CARBON	100K	5%	1/4W	
Q501	8-729-026-68	TRANSISTOR	2SD2525 (TP)					R235	1-247-903-00	CARBON	1M	5%	1/4W	
Q551	8-729-030-19	TRANSISTOR	2SB1640					R251	1-249-417-11	CARBON	1K	5%	1/4W	
< RESISTOR >								R252	1-249-438-11	CARBON	56K	5%	1/4W	
								R253	1-249-409-11	CARBON	220	5%	1/4W	
R101	1-249-429-11	CARBON	10K	5%	1/4W			R254	1-249-438-11	CARBON	56K	5%	1/4W	
R102	1-249-429-11	CARBON	10K	5%	1/4W			△ R255	1-220-893-11	METAL	0.22	10%	5W	F
R104	1-249-441-11	CARBON	100K	5%	1/4W			△ R256	1-220-893-11	METAL	0.22	10%	5W	F
R105	1-249-441-11	CARBON	100K	5%	1/4W			R257	1-249-417-11	CARBON	1K	5%	1/4W	
R111	1-249-433-11	CARBON	22K	5%	1/4W			R258	1-249-431-11	CARBON	15K	5%	1/4W	
R112	1-249-419-11	CARBON	1.5K	5%	1/4W			R260	1-260-076-11	CARBON	10	5%	1/2W	
R113	1-247-895-00	CARBON	470K	5%	1/4W			R261	1-249-421-11	CARBON	2.2K	5%	1/4W	
R115	1-249-441-11	CARBON	100K	5%	1/4W			R262	1-249-433-11	CARBON	22K	5%	1/4W	
R116	1-249-437-11	CARBON	47K	5%	1/4W			R263	1-249-417-11	CARBON	1K	5%	1/4W	
R121	1-249-433-11	CARBON	22K	5%	1/4W			R264	1-249-433-11	CARBON	22K	5%	1/4W	
R122	1-249-419-11	CARBON	1.5K	5%	1/4W			R265	1-249-433-11	CARBON	22K	5%	1/4W	
R123	1-249-429-11	CARBON	10K	5%	1/4W			R266	1-249-439-11	CARBON	68K	5%	1/4W	
R124	1-249-429-11	CARBON	10K	5%	1/4W			R267	1-249-431-11	CARBON	15K	5%	1/4W	
R125	1-249-429-11	CARBON	10K	5%	1/4W			R268	1-249-435-11	CARBON	33K	5%	1/4W	
R126	1-249-417-11	CARBON	1K	5%	1/4W			△ R311	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F
R127	1-249-441-11	CARBON	100K	5%	1/4W			△ R312	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F
R128	1-249-429-11	CARBON	10K	5%	1/4W			R321	1-249-437-11	CARBON	47K	5%	1/4W	
R129	1-249-429-11	CARBON	10K	5%	1/4W			R322	1-249-438-11	CARBON	56K	5%	1/4W	
R130	1-249-429-11	CARBON	10K	5%	1/4W			R323	1-249-429-11	CARBON	10K	5%	1/4W	
R133	1-249-429-11	CARBON	10K	5%	1/4W			R324	1-249-435-11	CARBON	33K	5%	1/4W	
R141	1-249-429-11	CARBON	10K	5%	1/4W			R325	1-249-431-11	CARBON	15K	5%	1/4W	
R142	1-249-429-11	CARBON	10K	5%	1/4W			R326	1-249-433-11	CARBON	22K	5%	1/4W	
R151	1-249-429-11	CARBON	10K	5%	1/4W			R327	1-249-426-11	CARBON	5.6K	5%	1/4W	
R152	1-249-429-11	CARBON	10K	5%	1/4W			R328	1-249-427-11	CARBON	6.8K	5%	1/4W	
R154	1-249-441-11	CARBON	100K	5%	1/4W			R329	1-249-425-11	CARBON	4.7K	5%	1/4W	
R155	1-249-441-11	CARBON	100K	5%	1/4W			R330	1-249-425-11	CARBON	4.7K	5%	1/4W	
R161	1-249-433-11	CARBON	22K	5%	1/4W			R331	1-249-417-11	CARBON	1K	5%	1/4W	
R162	1-249-419-11	CARBON	1.5K	5%	1/4W			R332	1-249-441-11	CARBON	100K	5%	1/4W	
R163	1-247-895-00	CARBON	470K	5%	1/4W			R333	1-249-417-11	CARBON	1K	5%	1/4W	
R165	1-249-441-11	CARBON	100K	5%	1/4W			R334	1-249-441-11	CARBON	100K	5%	1/4W	

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

MAIN	PANEL	PRIMARY	SECONDARY
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Ref. No.	Part No.	Description	Remark		
R335	1-249-429-11	CARBON	10K	5%	1/4W
R336	1-249-417-11	CARBON	1K	5%	1/4W
R501	1-249-433-11	CARBON	22K	5%	1/4W
△ R503	1-215-919-11	METAL OXIDE	2.2K	5%	3W F
△ R504	1-215-919-11	METAL OXIDE	2.2K	5%	3W F
R505	1-249-417-11	CARBON	1K	5%	1/4W
R506	1-249-417-11	CARBON	1K	5%	1/4W
R551	1-249-433-11	CARBON	22K	5%	1/4W
△ R553	1-215-919-11	METAL OXIDE	2.2K	5%	3W F
△ R554	1-215-919-11	METAL OXIDE	2.2K	5%	3W F
R555	1-249-417-11	CARBON	1K	5%	1/4W
R556	1-249-417-11	CARBON	1K	5%	1/4W
< RELAY >					
RY301	1-515-920-11	RELAY (24V)			
RY302	1-515-920-11	RELAY (24V)			
< TERMINAL >					
TM301	1-694-675-11	TERMINAL BOARD (4P) (SPEAKER)			

A-4428-759-A PANEL BOARD, COMPLETE					

< CAPACITOR >					
C401	1-124-257-00	ELECT	2.2uF	20%	50V
C402	1-126-160-11	ELECT	1uF	20%	50V
C403	1-124-257-00	ELECT	2.2uF	20%	50V
C404	1-124-261-00	ELECT	10uF	20%	50V
C451	1-124-257-00	ELECT	2.2uF	20%	50V
C452	1-126-160-11	ELECT	1uF	20%	50V
C453	1-124-257-00	ELECT	2.2uF	20%	50V
C454	1-124-261-00	ELECT	10uF	20%	50V
< CONNECTOR >					
CN401	1-784-737-11	CONNECTOR, FFC 15P			
< DIODE >					
D401	8-719-056-11	LED SML72423C-TP4 (ILLUMINATION)			
D411	8-719-947-13	DIODE MTZJ-T-72-4.7B			
D412	8-719-911-19	DIODE 1SS119-25			
D461	8-719-947-13	DIODE MTZJ-T-72-4.7B			
D462	8-719-911-19	DIODE 1SS119-25			
< IC >					
IC401	8-759-099-06	IC M5218AFP-TE1			
< TRANSISTOR >					
Q401	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q402	8-729-900-63	TRANSISTOR	DTA124ES		
Q403	8-729-900-63	TRANSISTOR	DTA124ES		
Q404	8-729-900-63	TRANSISTOR	DTA124ES		
Q411	8-729-202-67	FET	2SK246-GR3		
Q461	8-729-202-67	FET	2SK246-GR3		
< RESISTOR >					
R401	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R402	1-249-425-11	CARBON	4.7K	5%	1/4W
R403	1-249-425-11	CARBON	4.7K	5%	1/4W
R404	1-249-441-11	CARBON	100K	5%	1/4W
R405	1-247-903-00	CARBON	1M	5%	1/4W
R421	1-249-411-11	CARBON	330	5%	1/4W
R422	1-249-417-11	CARBON	1K	5%	1/4W
R423	1-249-441-11	CARBON	100K	5%	1/4W
R424	1-249-409-11	CARBON	220	5%	1/4W
R425	1-249-417-11	CARBON	1K	5%	1/4W
R426	1-249-429-11	CARBON	10K	5%	1/4W
R427	1-249-429-11	CARBON	10K	5%	1/4W
R451	1-249-425-11	CARBON	4.7K	5%	1/4W
R452	1-249-425-11	CARBON	4.7K	5%	1/4W
R453	1-249-425-11	CARBON	4.7K	5%	1/4W
R454	1-249-441-11	CARBON	100K	5%	1/4W
R455	1-247-903-00	CARBON	1M	5%	1/4W
< VARIABLE RESISTOR >					
RV401	1-227-170-11	RES, VAR, CARBON 100K/100K	(SATELLITE LEVEL)		
< SWITCH >					
S401	1-771-900-11	SWITCH, ROTARY (SATELLITE MODE)			
S402	1-572-347-21	SWITCH, SLIDE (SPEAKER)			

	1-677-164-11	PRIMARY BOARD	*****		
	1-533-217-41	HOLDER, FUSE			
< CAPACITOR >					
△ C591	1-113-925-11	CERAMIC	0.01uF	20%	250V
< CONNECTOR >					
CN601	1-564-321-00	PIN, CONNECTOR 2P			
< FUSE >					
△ F501	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) (4A/250V)	(EXCEPT AUS)		
△ F502	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (2.5A/250V)	(EXCEPT MX, AUS)		
△ F503	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (2.5A/250V)	(EXCEPT MX)		
< SWITCH >					
△ S501	1-771-291-11	SWITCH, POWER (VOLTAGE SELECTOR)	(EXCEPT MX, AUS)		

	1-677-165-11	SECONDARY BOARD	*****		

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

9	1-773-012-11	WIRE (FLAT TYPE) (15 CORE)	
△ 14	1-575-651-11	CORD, POWER	
△ T501	1-435-316-11	TRANSFORMER, POWER	

		HARDWARE LIST	

#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#4	7-685-881-09	SCREW +BVTT 4X8 (S)	

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