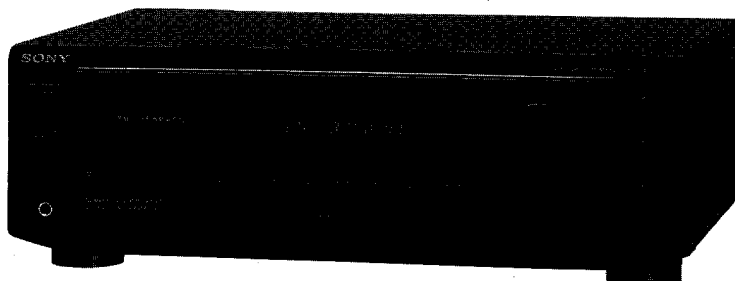


STR-DE305

SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model



SPECIFICATIONS

Audio power specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 100 watts per channel minimum RMS power, with no more than 0.1 % total harmonic distortion from 150 milliwatts to rated output. (US Model)

Amplifier section

Canadian, E, Australian model :
output 100 W +100 W
(8ohm, 20-20kHz, 0.1% THD)

Frequency response PHONO: RIAA
equalization curve
±0.5 dB
CD, TAPE/MD, VIDEO:
10 Hz - 50 kHz ±1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD	200 mV		
TAPE/ MD, TV, VIDEO	150 mV	50 kilohms	82 dB 82 dB (A, 150 mV)

* '78 IHF

Outputs

TAPE/MD REC OUT:
Voltage 150 mV,
Impedance 10 kilohms
VIDEO AUDIO OUT:
Voltage 150 mV,
Impedance 10 kilohms
PHONES: Accepts low
and high impedance
headphones

Muting

Full mute

BASS BOOST

+10 dB at 70 Hz

TONE

±8 dB at 100 Hz and
10 kHz

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna
terminals

75 ohms, unbalanced
300 ohms, unbalanced

Sensitivity

Mono: 18.3 dBf, 4.5 µV
Stereo: 38.3 dBf, 45 µV

Usable sensitivity 11.2 dBf, 2 µV (IHF)

S/N

Mono: 76 dB
Stereo: 70 dB

Harmonic
distortion at
1 kHz

Mono: 0.3 %
Stereo: 0.5 %

Separation

45 dB at 1 kHz

Frequency
response

30 Hz - 15 kHz ±0.5 dB

Selectivity

60 dB at 400 kHz

AM tuner section

Tuning range US, Canadian model :
530 - 1,710 kHz(10 kHz*)
531 - 1,710 kHz(9 kHz)
E, Australian model :
530 - 1,610 kHz(10 kHz)
531 - 1,602 kHz(9 kHz)

Antenna

Loop antenna

Usable sensitivity 50 dB/m (at 1,000 kHz or
999 kHz)

S/N

54 dB (at 50 mV/m)

Harmonic
distortion

0.5 % (50 mV/m,
400 Hz)

Selectivity

At 9 kHz: 35 dB
At 10 kHz: 40 dB

** You can change the AM tuning interval
to 9 kHz. After tuning in any AM station,
turn off the receiver. Hold down the
TUNING + button and press the POWER
button. All preset stations will be erased
when you change the interval. To reset
the interval to 10 kHz, repeat the
procedure.

— Continued on page 2 —

FM STEREO/FM-AM RECEIVER
SONY®



General

System	Tuner section: PLL quartz-locked digital synthesizer system Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complimentary SEPP
Power requirements	US, Canadian model : 120 V AC, 60Hz E model : 120/220/240 V AC, 50/60 Hz adjustable Australian model : 220-230 V AC, 50/60 Hz
Power consumption	US model : 175 W Canadian model : 270 VA E model : 200 W Australian model : 210 W
AC outlets	1 switched, total 120 W/ 1A Max
Dimensions	17 x 5 7/8 x 11 1/8 inches (430 x 148 x 295 mm)
Mass (Approx.)	7.0 kg (15 lb 6 oz)
Supplied accessories	FM wire antenna (1) AM loop antenna (1) Remote controller (remote) (1) Size AA (R6) batteries (2)

Design and specifications are subject to
change without notice.

TABLE OF CONTENTS

Section	Title	Page
	specifications	1
1. GENERAL		
	Location and Function of controls	4
2. EXPLANATION OF IC TERMINALS		6
3. DIAGRAMS		
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	3-2. Printed Wiring Boards (Main Section)	10
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	3-5. Printed Wiring Boards (Display Section)	23
4. EXPLODED VIEWS		
	4-1. Front panel Section	26
	4-2. Chassis Section	27
5. ELECTRICAL PARTS LIST		29

MODEL IDENTIFICATION (Specification Label)

SONY® MODEL NO. **STR-DE305**

FM STEREO/FM-AM RECEIVER



US, Canadian model : AC 120V 60Hz
Australian model : AC 240V~50/60Hz
E model : AC 120, 220, 240V selectable~50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

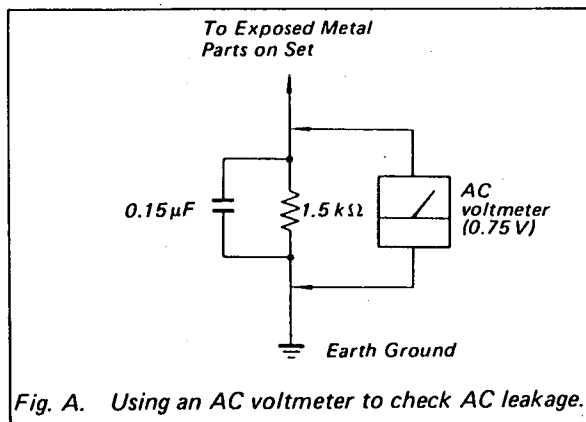
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

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

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

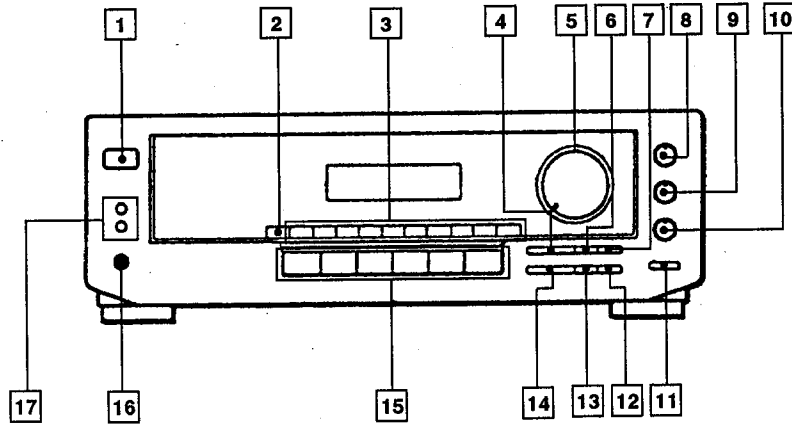
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated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



SECTION 1 GENERAL

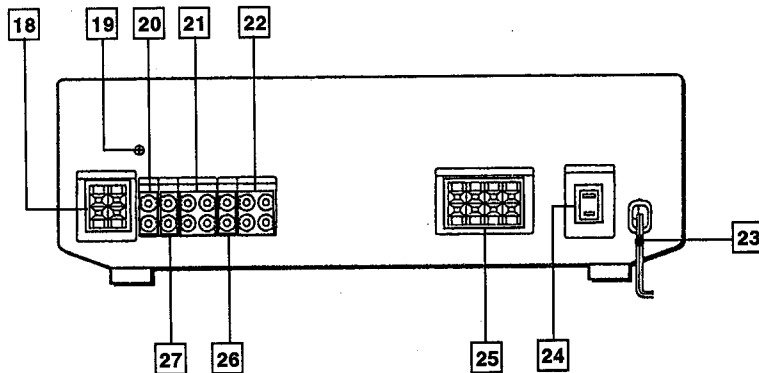
LOCATION AND FUNCTION OF CONTROLS

[FRONT PANEL]



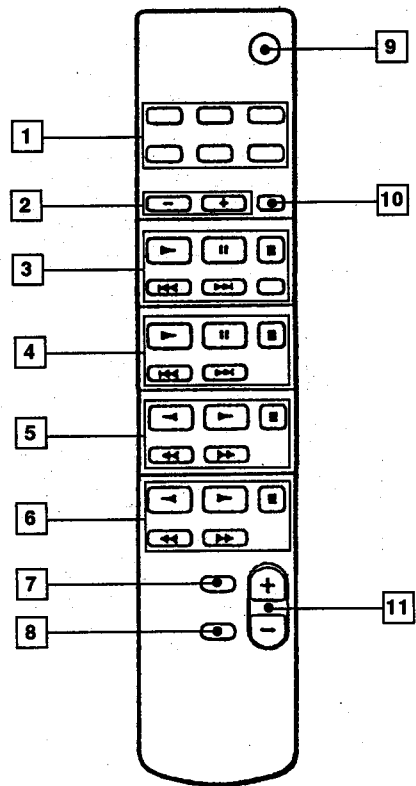
- | | |
|------------------------------|------------------------|
| 1 POWER switch | 10 BALANCE control |
| 2 DIRECT button | 11 BASS BOOST button |
| 3 Numeric buttons | 12 MEMORY button |
| 4 PRESET TUNING +, - buttons | 13 FM/AM button |
| 5 VOLUME control | 14 TUNING +, - buttons |
| 6 SHIFT button | 15 Function buttons |
| 7 FM MODE button | 16 PHONES jack |
| 8 BASS control | 17 SPEAKERS switches |
| 9 TREBLE control | |

[REAR PANEL]



- | | |
|--|-------------------------|
| 18 ANTENNA (AM/FM) | 23 AC power cord |
| 19  Ground terminal | 24 SWITCHED AC OUTLET |
| 20 PHONO | 25 FRONT SPEAKERS (A/B) |
| 21 TAPE/MD | 26 TV |
| 22 VIDEO | 27 CD |

[Remote]



- 1** FUNCTION buttons
- 2** PRESET +, - buttons
- 3** CD control buttons
- 4** MD control buttons
- 5** TAPE DECK A control buttons
- 6** TAPE DECK B control buttons

- 7** BASS BOOST button
- 8** MUTING button
- 9** POWER button
- 10** SHIFT button
- 11** VOL. buttons

SECTION 2

EXPLANATION OF IC TERMINALS

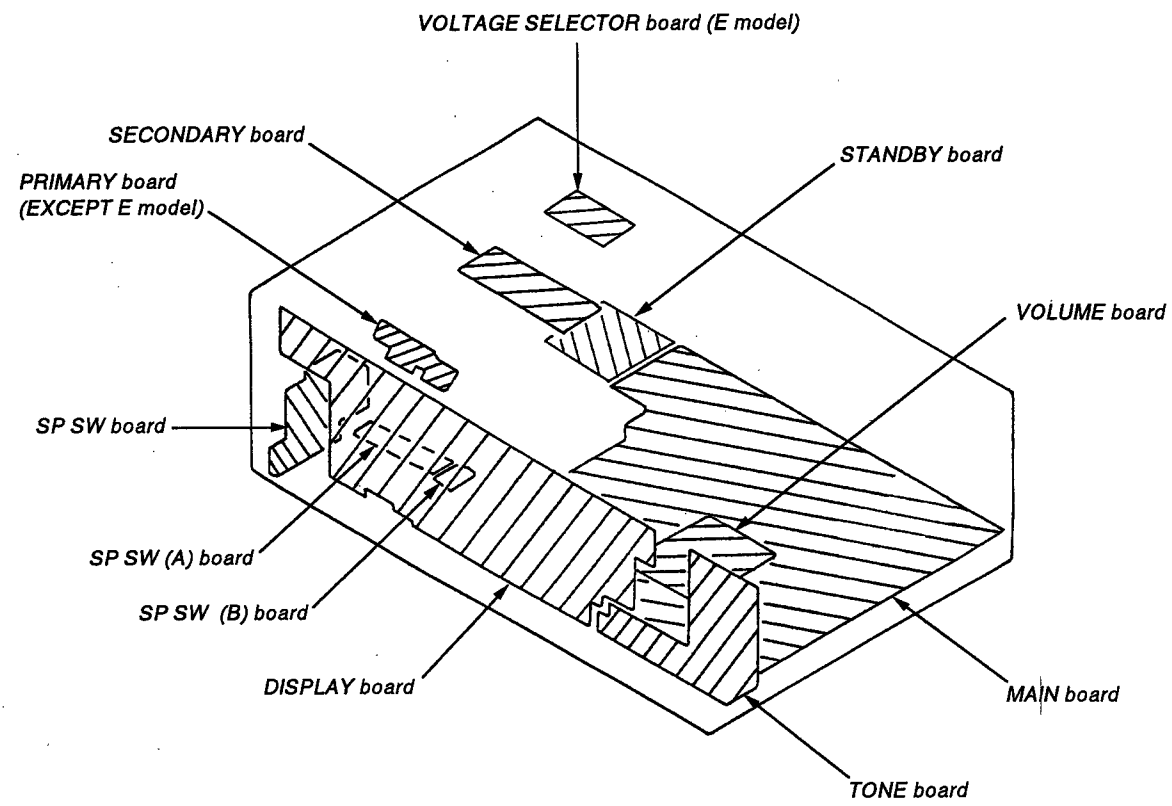
IC201 (μ PD78044AGF-165-3B9)

Pin No.	Pin name	I/O	Description
1	DIG7	O	Fluorescent indicator tube drive.
2	DIG6	O	
3	DIG5	O	
4	DIG4	O	
5	DIG3	O	
6	DIG2	O	
7	DIG1	O	
8	+5V	—	Power supply. (+5V)
9	$\overline{S. CLK}$	I	System clock.
10	$\overline{S. DATA}$	I	System data.
11	$\overline{PLL. DATA}$	I	PLL data input from TU001.
12	S. CE (LC7288)	O	Chip enable output.
13	$\overline{S. CE}$ (LV100)	—	Not used. (Open)
14	VERISON	I	Input for model select.
15	$\overline{PROTECT}$	I	Protector detect input.
16	BRIDGE	—	Not used. (Open)
17	$\overline{RESET}$	I	System reset terminal.
18	$\overline{AUTO-STOP}$	I	Auto stop detect input.
19	$\overline{STEREO-IN}$	I	Stereo detect input.
20	AVss	—	Ground.
21	SP-RY	O	Speaker relay drive.
22	SURR-RY	—	Not used. (Open)
23	POWER-RY	O	Power relay drive.
24	DOWN	O	Volume down control.
25	UP	O	Volume up control.
26	SIGNAL	I	A/D signal input terminal.
27	A/D2	I	A/D2 key input terminal.
28	A/D1	I	A/D1 key input terminal.
29	AVDD	—	Power supply. (+5V)
30	AV. REF	—	Reference voltage. (+5V)
31	GND	—	Ground.
32	NC	—	Not used. (Open)
33	Vss	—	Ground.
34	X1	—	System clock. (4.19MHz)
35	X2	—	System clock. (4.19MHz)
36	IC. MUTE	O	Mute drive output for μ PD2581 (IC701).
37	$\overline{HALL}$	—	Not used. (Open)
38	$\overline{THEATER}$	—	Not used. (Open)
39	$\overline{PROLOGIC}$	—	Not used. (Open)
40	T. MUTE	O	Tuner mute drive output.

Pin No.	Pin name	I/O	Description
41	$\overline{\text{VIDEO}}$	–	Not used. (Open)
42	$\overline{\text{TV/LD}}$	–	Not used. (Open)
43	$\overline{\text{STANDBY}}$	O	Standby LED drive.
44	SYS. POWER	I	System power ON/OFF.
45	DDS. DATA. IN	–	Not used. (Open)
46	RDS. CLK. IN	–	Not used. (Open)
47	$\overline{\text{STOP}}$	I	Stop signal input from NJM2103D (IC950).
48	V _{ss}	–	Ground.
49	$\overline{\text{SIRCS}}$	I	SIRCS signal input.
50	$\overline{\text{POWER SW}}$	I	Power switch input terminal.
51	NC	–	Not used. (Open)
52	+5V	–	Power supply. (+5V)
53	LOW BOOST	–	Bass boost LED drive.
54	FUNC. MUTE	O	Line mute drive.
55	NC	–	Connect to ground.
56	KI5	I	Key in 5.
57	KI4	I	Key in 4
58	KI3	I	Key in 3
59	KI2	I	Key in 2
60	KI1	I	Key in 1.
61	GND	–	Ground.
62	S15	O	Key out 15.
63	S14	O	Key out 14.
64	S13	O	Key out 13.
65	S12	O	Key out 12.
66	S11	O	Key out 11.
67	S10	O	Key out 10.
68	S9	O	Key out 9.
69	S8	O	Key out 8.
70	S7	O	Key out 7.
71	VLOAD	–	Connect to ground.
72	S6	O	Key out 6.
73	S5	O	Key out 5.
74	S4	O	Key out 4.
75	S3	O	Key out 3.
76	S2	O	Key out 2.
77	S1	O	Key out 1.
78	DIG10	O	Fluorescent indicator tube drive.
79	DIG9	O	
80	DIG8	O	

SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

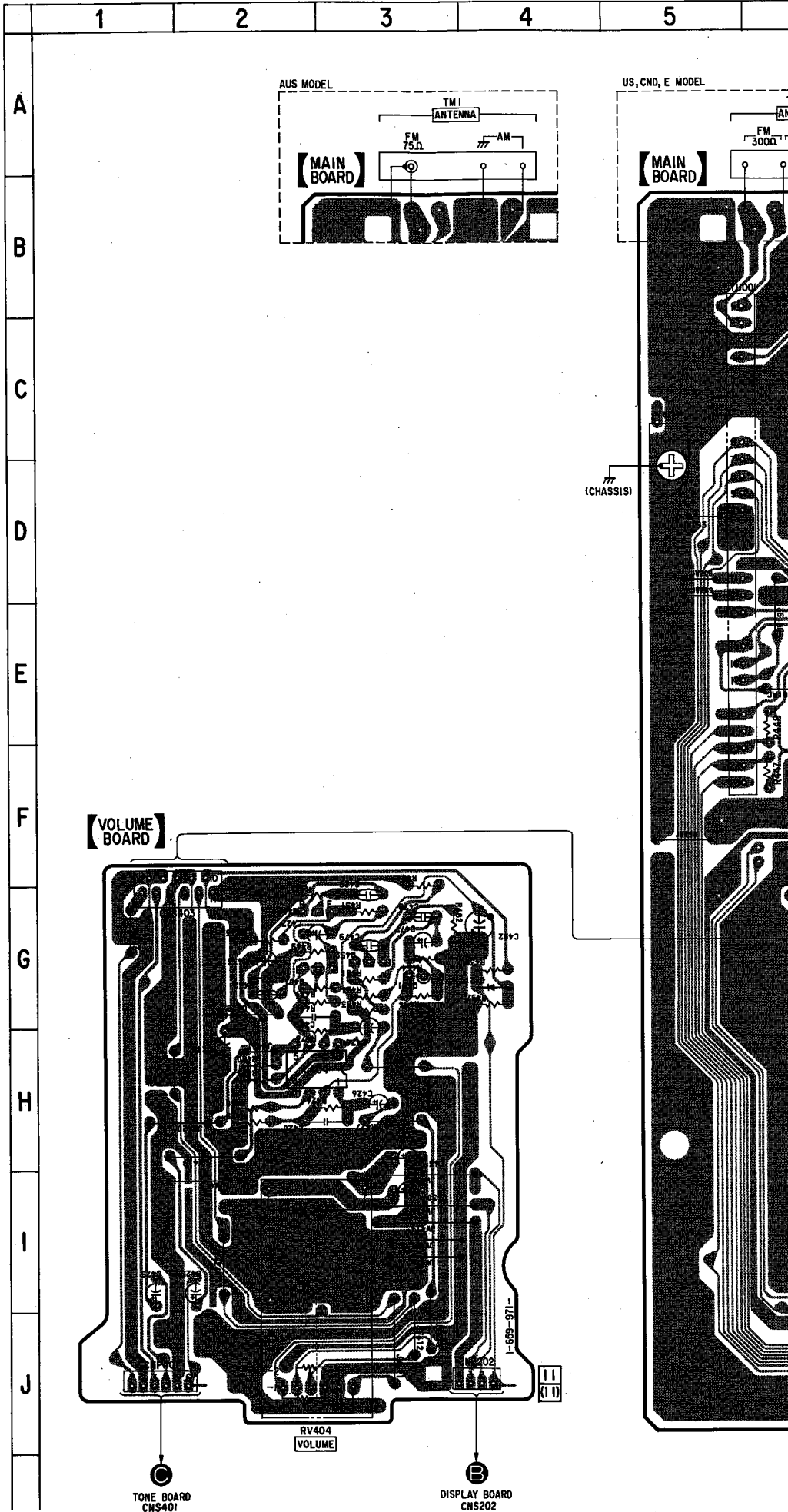


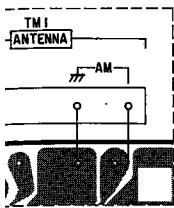
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D421	G - 4	Q303	H - 6
D710	J - 15	Q304	H - 7
D721	H - 10	Q401	G - 2
D722	H - 10	Q402	G - 2
D723	J - 10	Q451	G - 3
D724	I - 10	Q452	G - 3
D801	I - 11	Q701	G - 12
D802	E - 16	Q702	H - 13
D804	J - 12	Q703	H - 13
D805	I - 12	Q704	F - 13
D810	C - 17	Q710	J - 16
D811	C - 17	Q711	G - 11
D812	C - 17	Q720	H - 11
D813	C - 17	Q721	H - 10
D814	C - 16	Q722	H - 11
D815	C - 16	Q723	I - 10
D816	D - 29	Q751	C - 12
D820	D - 17	Q752	D - 13
D821	D - 16	Q753	D - 13
D822	D - 16	Q754	C - 13
D823	D - 16	Q770	C - 11
IC401	D - 8	Q801	I - 11
IC402	C - 7	Q802	C - 17
IC403	F - 8	Q803	I - 12
IC404	H - 2	Q951	B - 15
IC701	F - 11		
IC801	D - 10		
IC802	D - 10		
IC950	B - 14		

Note:

- — : parts extracted from the component side.
- ▤ : Pattern on the side which is seen.
- Abbreviation
CND : Canadian
AUS : Australian

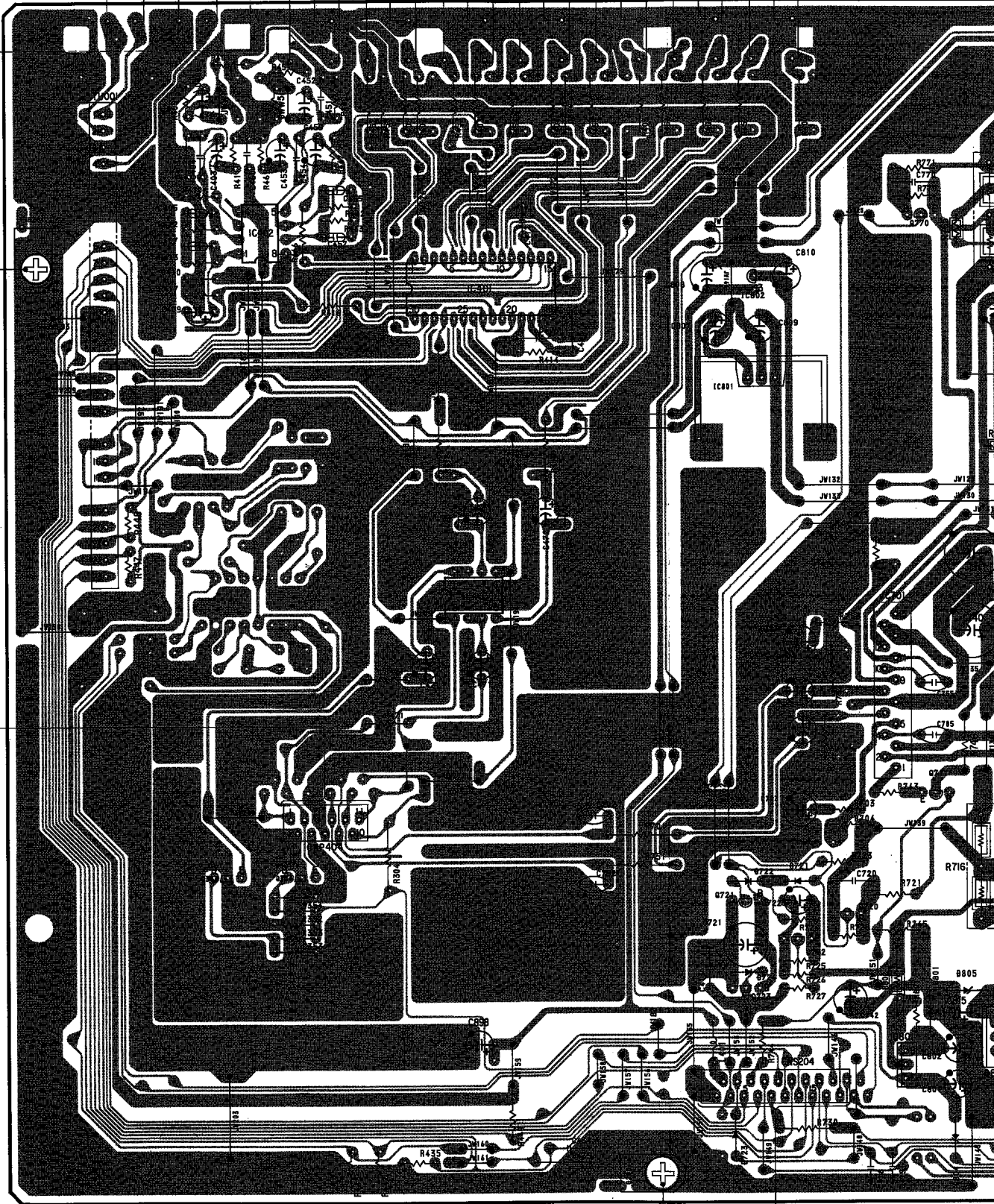
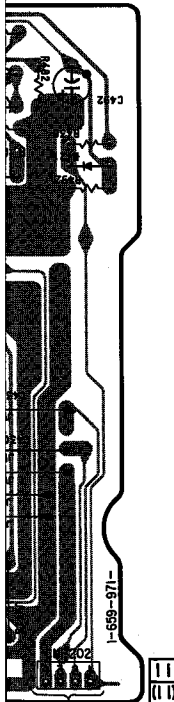




US, CND, E MODEL

MAIN BOARD

(CHASSIS)



(CHASSIS)

DISPLAY BOARD
CNS201

DISPLAY BOARD
CNS202

9

10

11

12

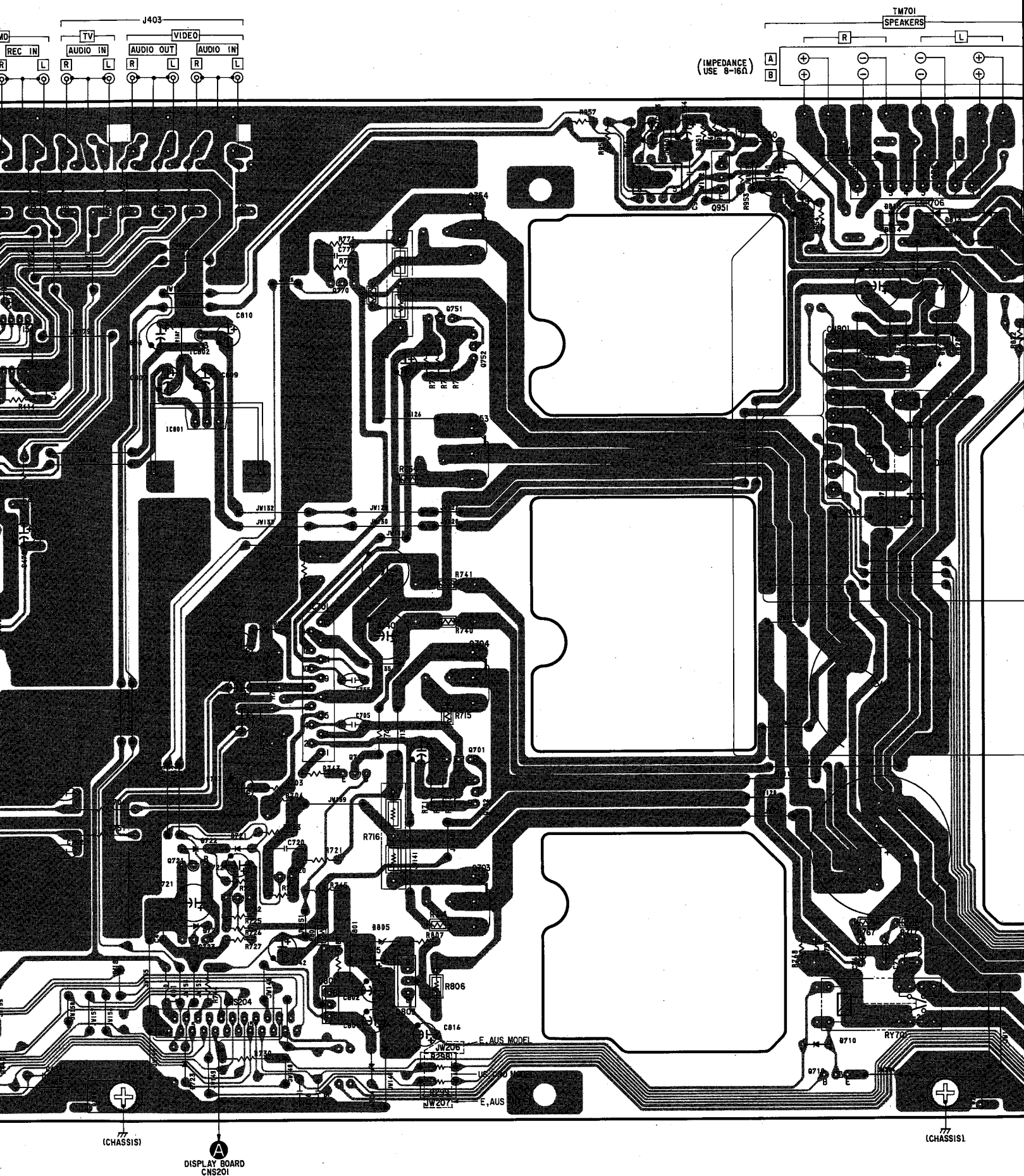
13

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17



17

18

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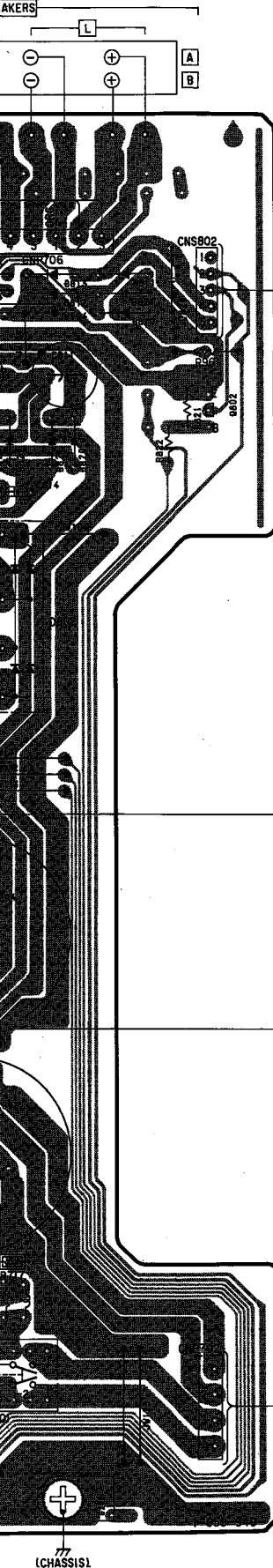
20

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22

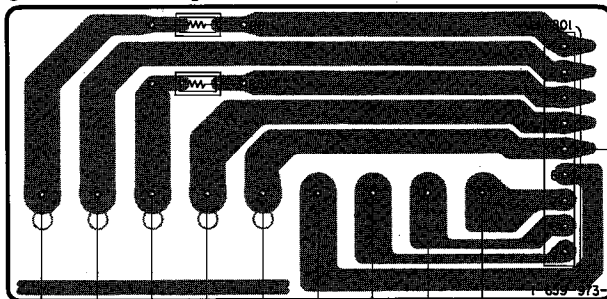
23

24

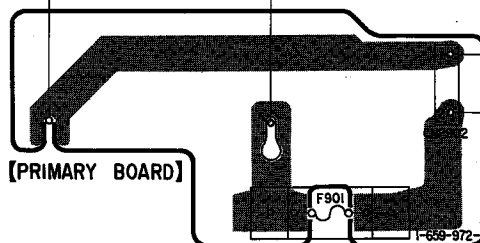
M701
MAKERS

EXCEPT E MODEL

[SECONDARY BOARD]



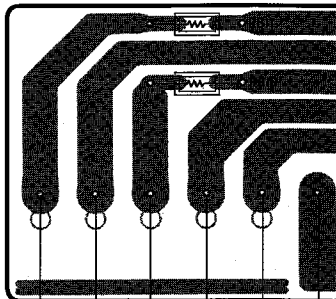
000000000000 000000000000 000000000000

T901
POWER
TRANSFORMER

[PRIMARY BOARD]

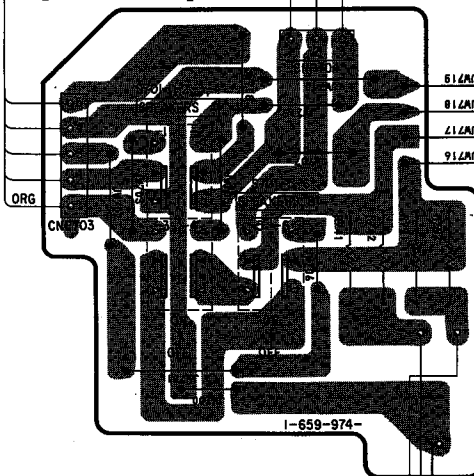
E MODEL

[SECONDARY BOARD]



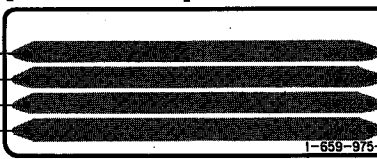
000000000000 000000000000

[SP SW BOARD]

ORG
CNS703

I-659-974-

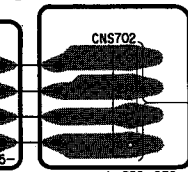
[SP SW (A) BOARD]

81.2M
81.2M
41.2M
91.2M

I-659-975-

II
(11)

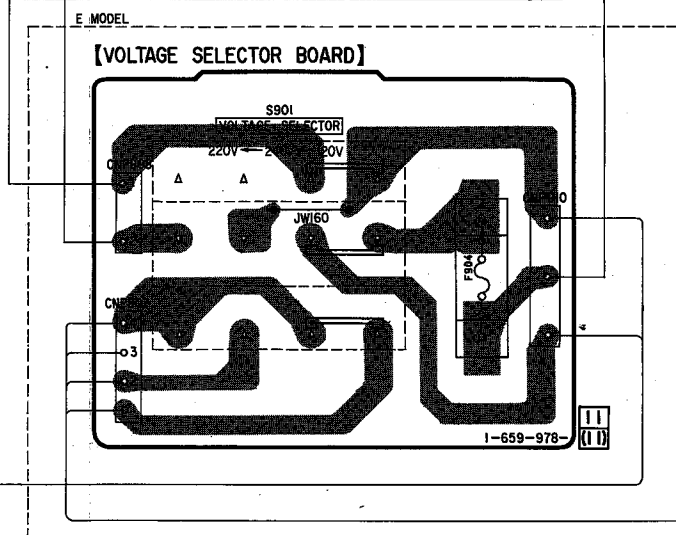
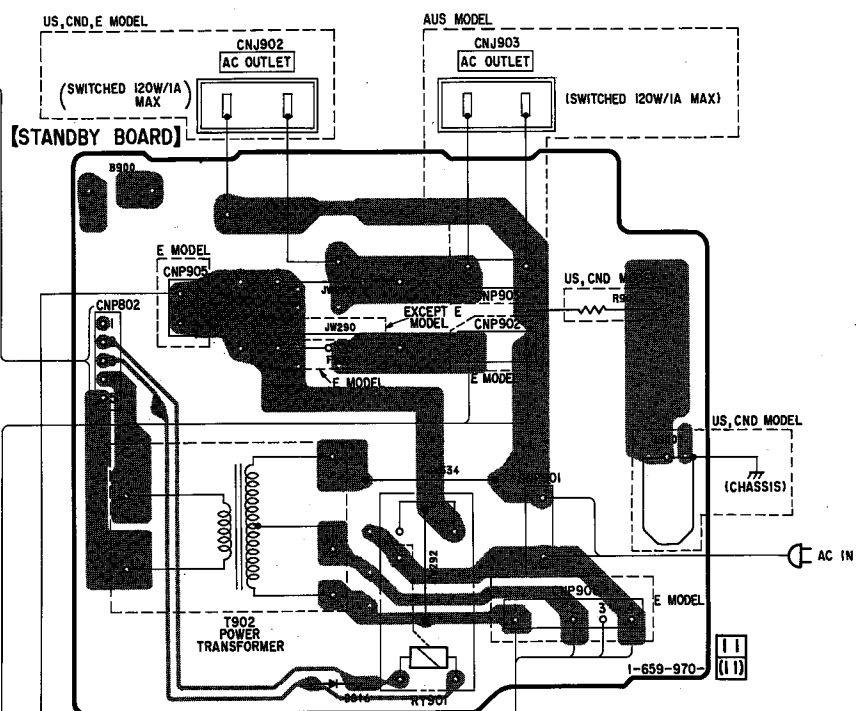
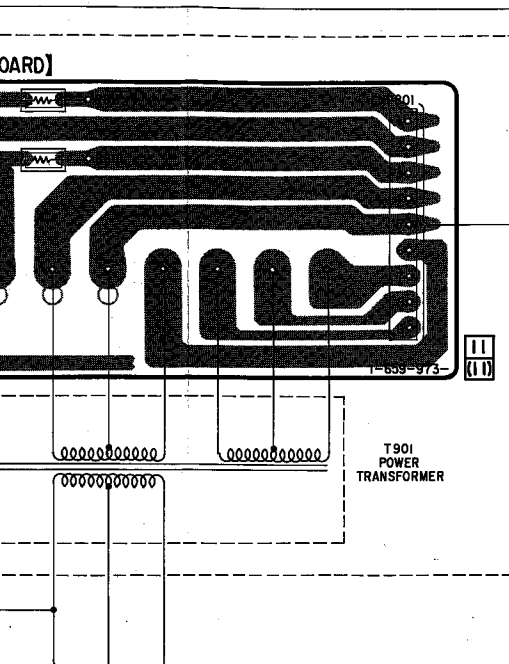
[SP SW (B) BOARD]



CNS702

I-659-976-

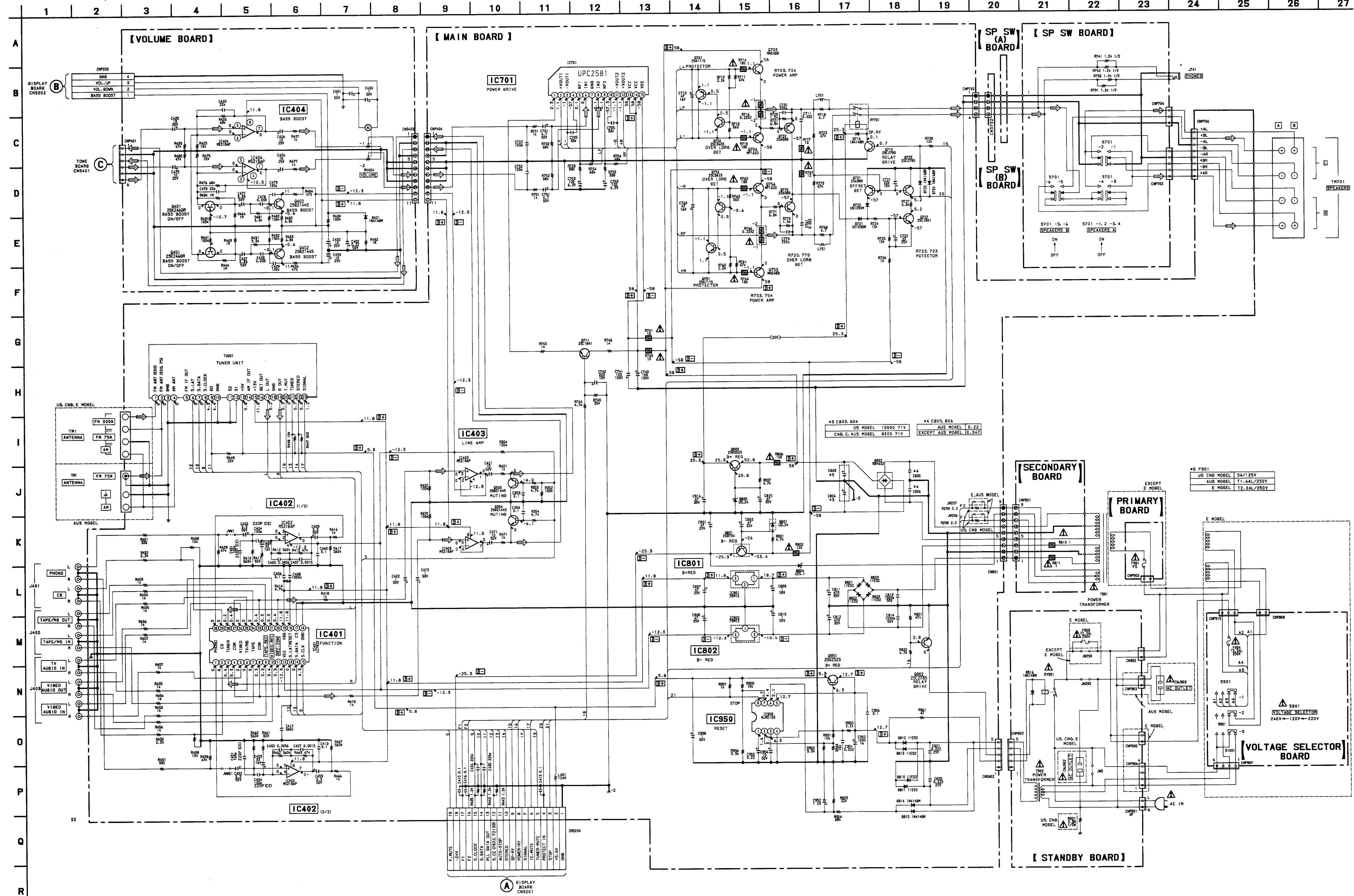
II
(11)J741
PHONES



BOARD]

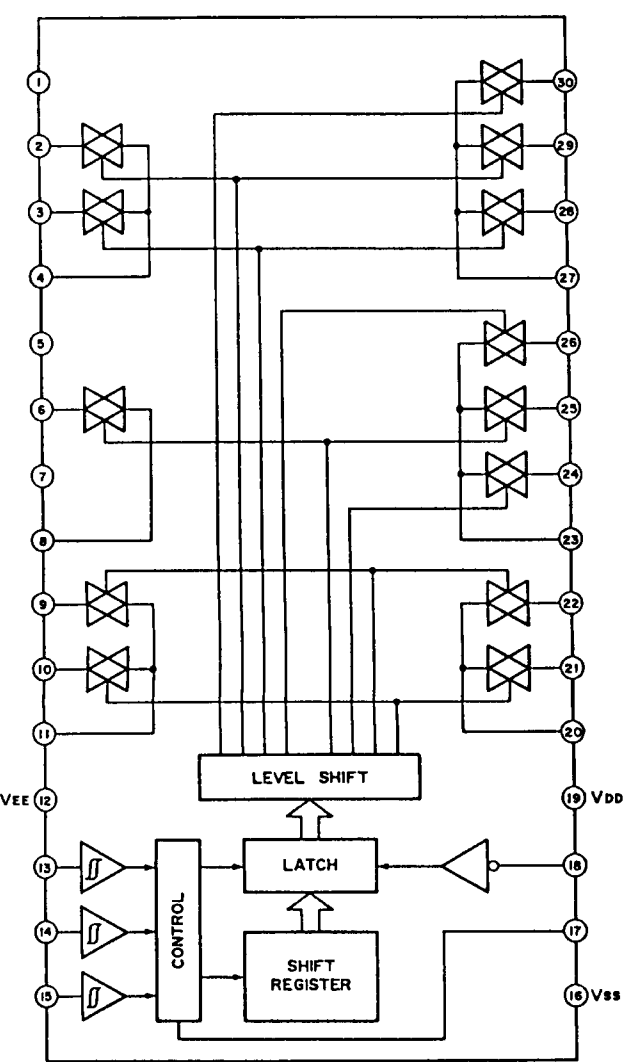


3-3. SCHEMATIC DIAGRAM (MAIN SECTION)

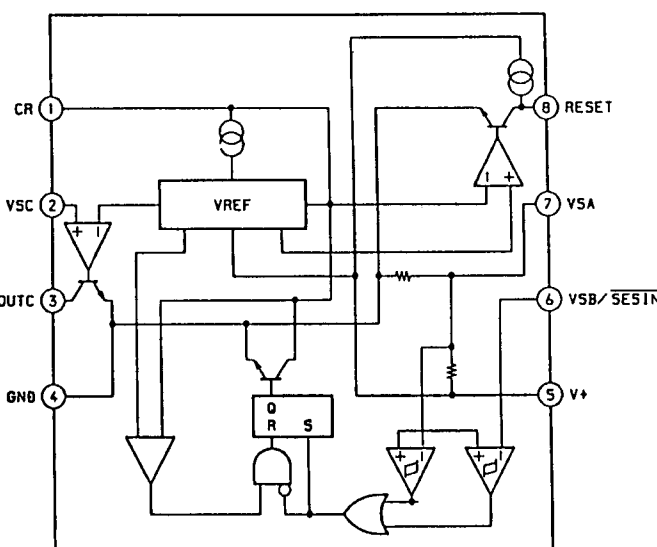


• IC BLOCK DIAGRAMS – MAIN SECTION –

IC401 LC7822



IC950 NJM2103D



Note :

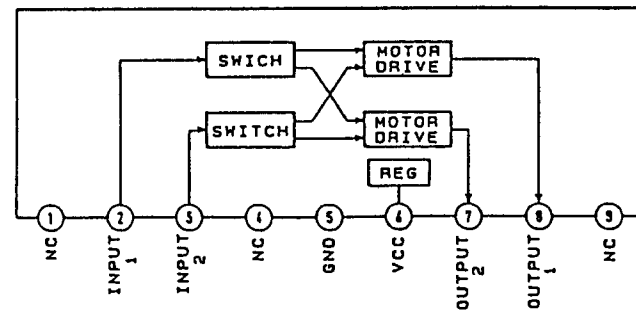
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
-  : nonflammable resistor.

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

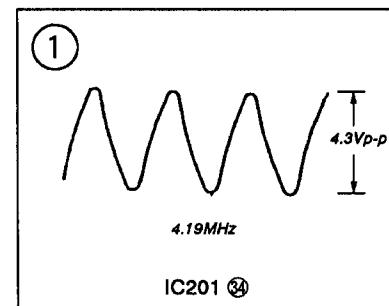
- **[B+]** : B+ Line
- **[B-]** : B- Line
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
{ : AM
- Voltages are taken with a VOM (Input impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Signal path.
⇒ : FM
- Abbreviation
CND : Canadian
AUS : Australian

3-4. SCHEMATIC DIAGRAM (DISPLAY SECTION)

• IC BLOCK DIAGRAM - DISPLAY SECTION -
IC202 BA6208

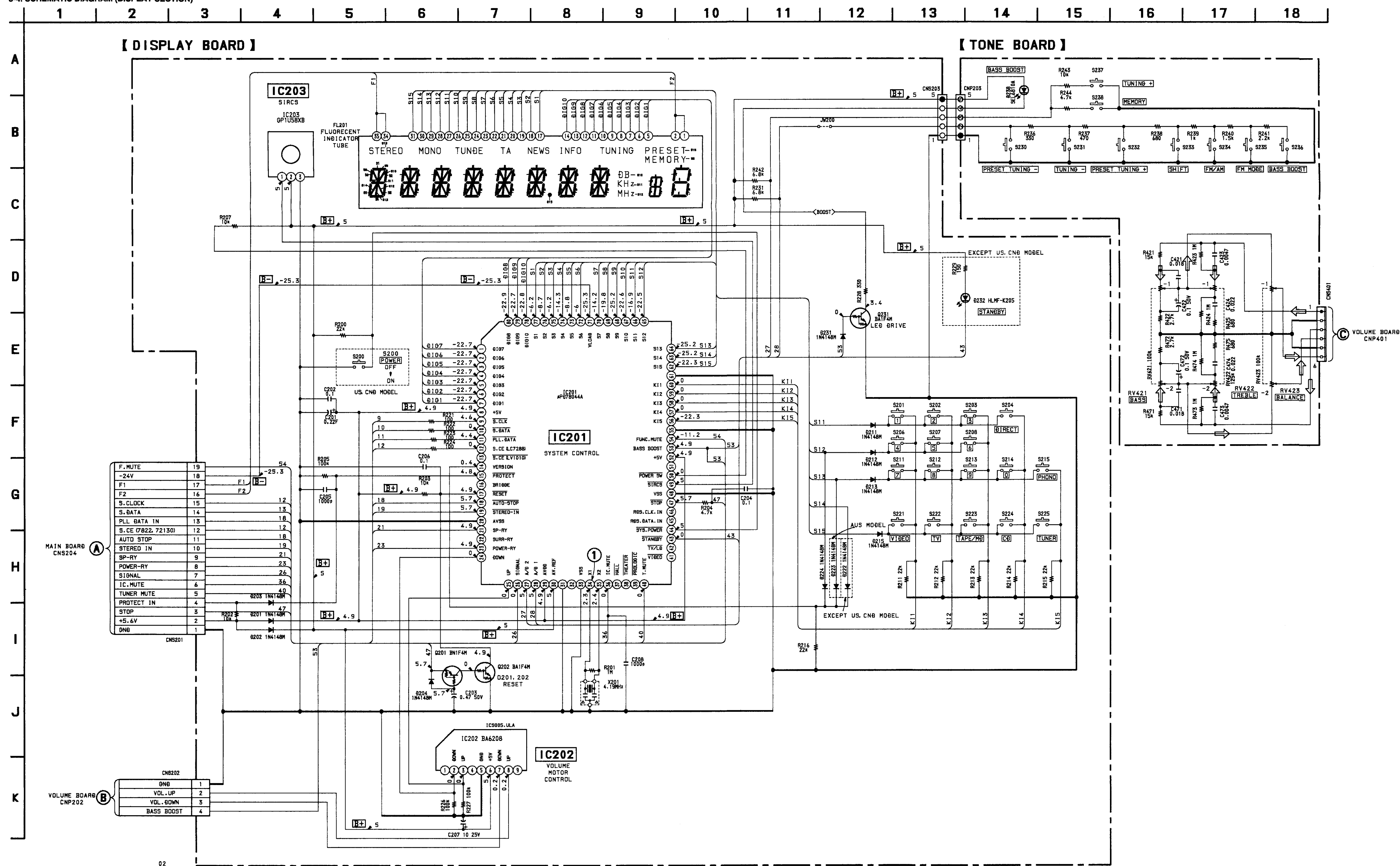


• WAVEFORM

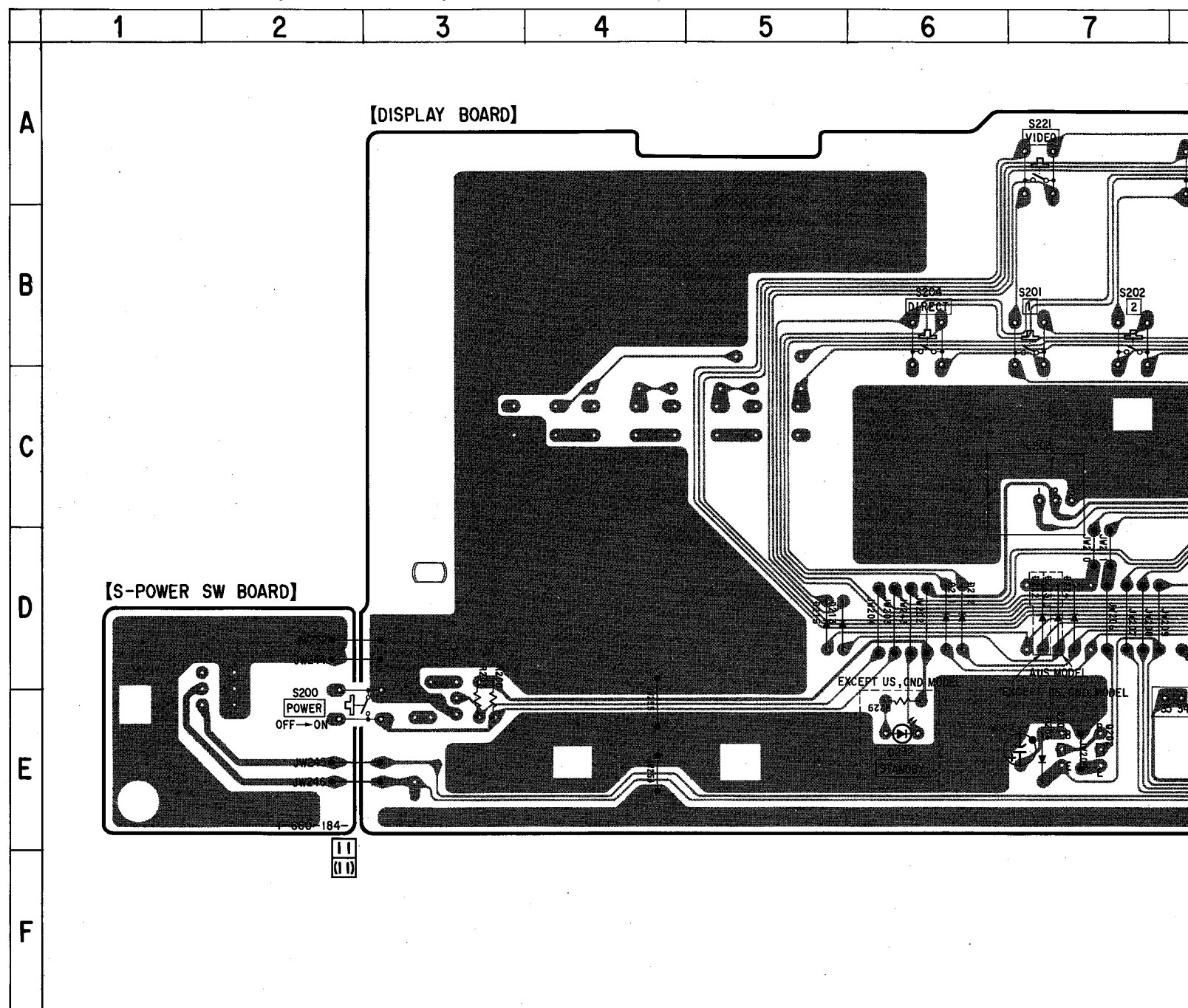


Note :

- All capacitors are in μ F unless otherwise noted, pF: μ F μ F 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : Internal component.
- $\boxed{B+}$: B+ Line
- $\boxed{B-}$: B- Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
CND : Canadian
AUS : Australian



3-5. PRINTED WIRING BOARDS (DISPLAY SECTION)



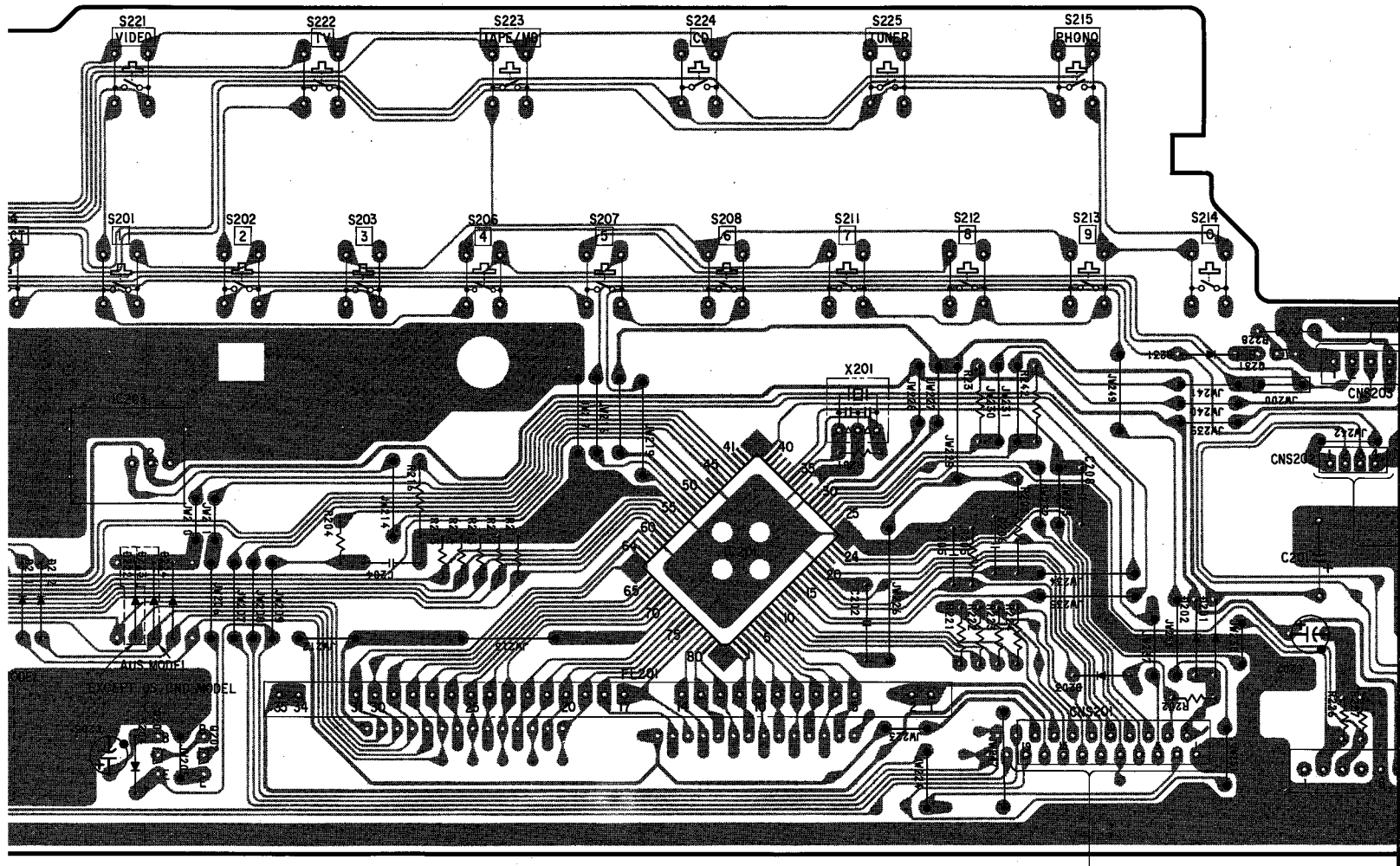
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D201	D - 12	D223	D - 7	Q201	E - 7
D202	D - 12	D224	D - 7	Q202	E - 7
D203	D - 12	D231	C - 12	Q203	E - 3
D204	E - 7	D232	E - 6	Q231	C - 13
D211	D - 6	D238	B - 18		
D212	D - 6				
D213	D - 5	IC101	D - 10		
D215	D - 5	IC202	E - 13		
D221	D - 7	IC203	C - 7		
D222	D - 7				

Note:

- — : parts extracted from the component side.
- : Pattern on the side which is seen.
- Abbreviation
CND ; Canadian
AUS : Australian

	7	8	9	10	11	12	13
--	---	---	---	----	----	----	----




 MAIN BOARD
 CNS204

13

14

15

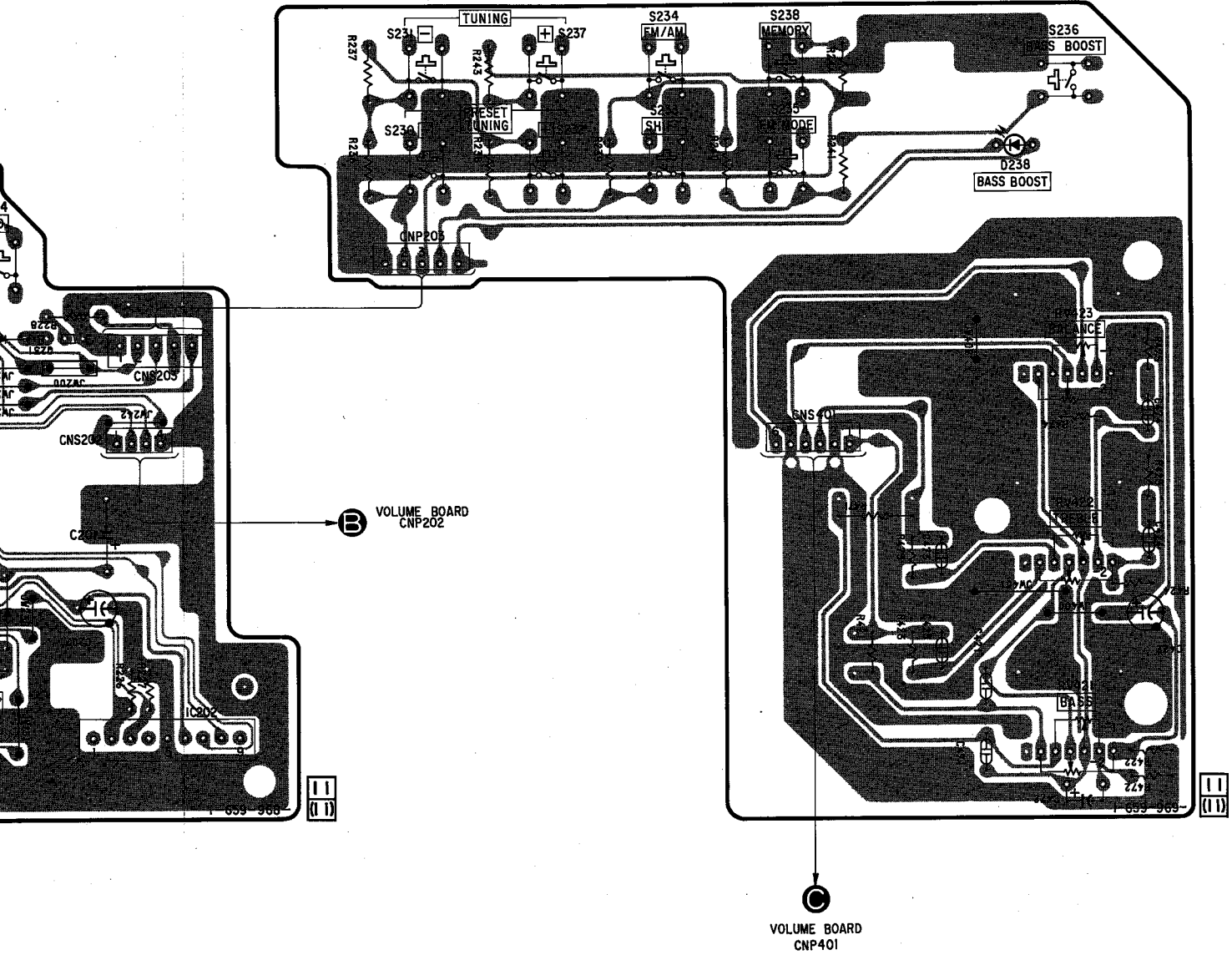
16

17

18

19

【TONE BOARD】



SECTION 4 EXPLODED VIEWS

NOTE :

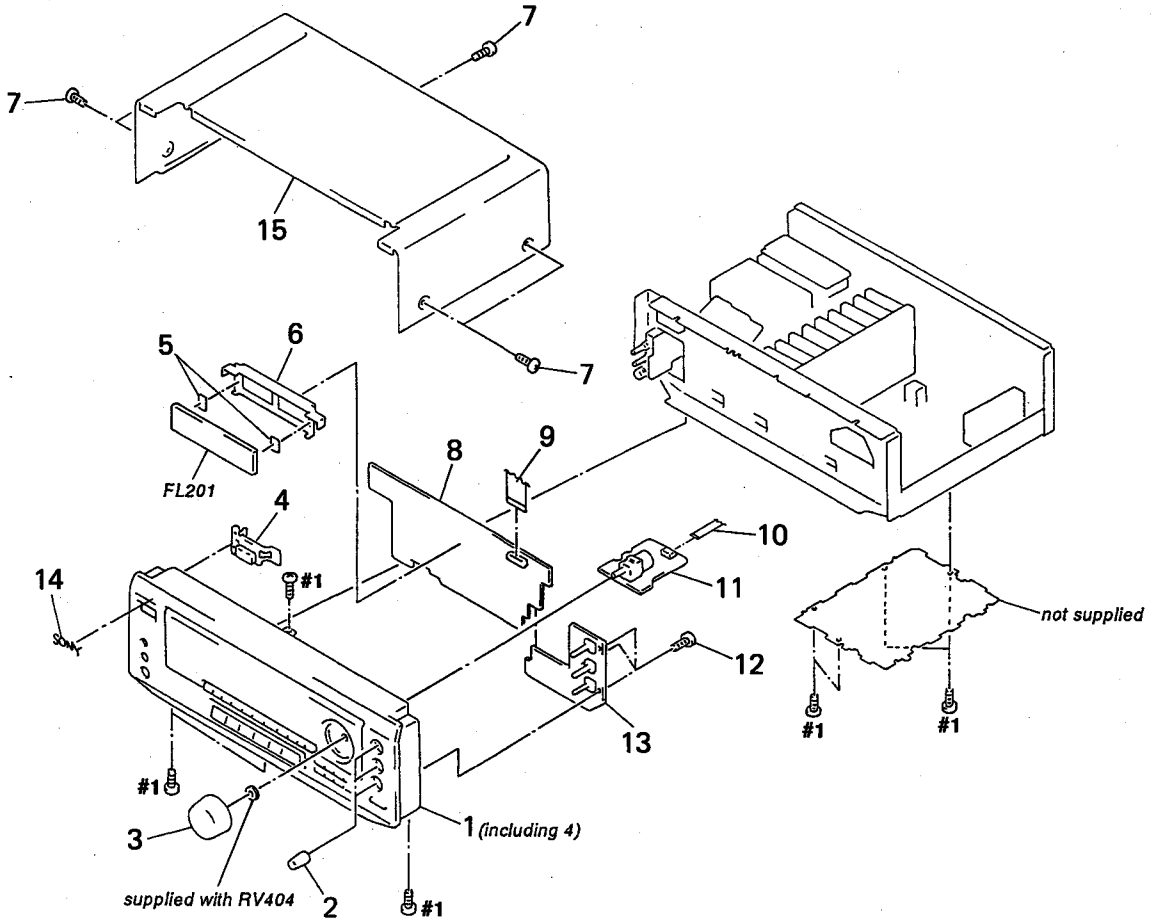
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- 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
AUS : Australian
CND : Canadian

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

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

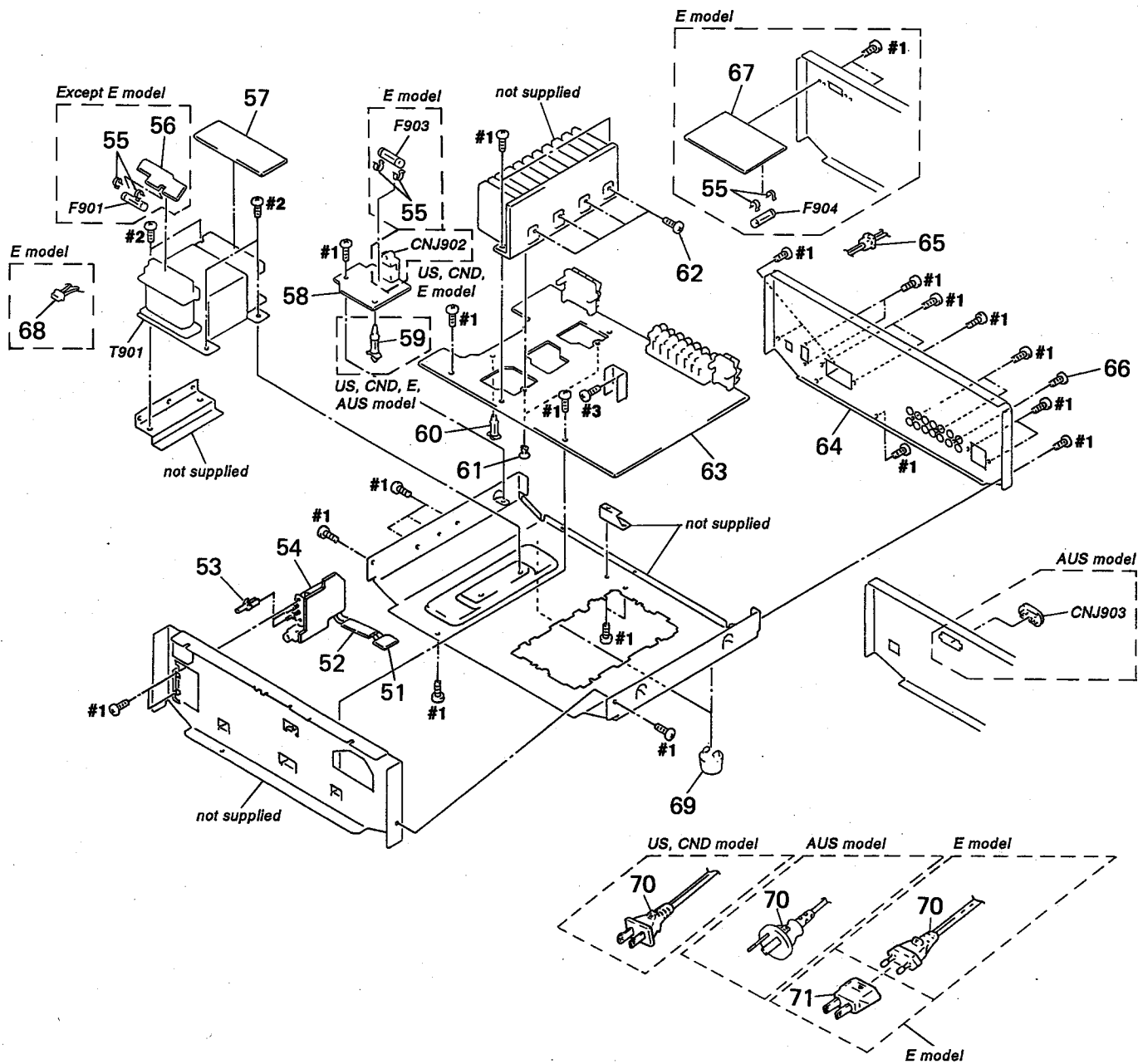
4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4946-863-1	PANEL ASSY, FRONT (US,Canadian)	
1	X-4946-864-1	PANEL ASSY, FRONT (E,AUS)	
2	4-980-639-01	KNOB (R14)	
3	X-4946-873-1	KNOB (R48) ASSY	
4	4-979-936-01	BUTTON (P-T)	
* 5	4-921-941-01	CUSHION (FL)	
* 6	4-943-107-11	HOLDER (FL TUBE)	
7	3-704-366-01	SCREW (CASE) (M3X8)	
* 8	A-4389-502-A	DISPLAY BOARD, COMPLETE (US,Canadian)	
* 8	A-4389-512-A	DISPLAY BOARD, COMPLETE (AUS)	

Ref. No.	Part No.	Description	Remark
* 8	A-4389-515-A	DISPLAY BOARD, COMPLETE (E)	
9	1-773-114-11	WIRE (FLAT TYPE) (19 CORE)	
10	1-769-941-11	WIRE (FLAT TYPE) (11 CORE)	
* 11	A-4389-504-A	VOLUME BOARD, COMPLETE	
12	4-951-620-01	SCREW (2.6X8), +BVTP	
* 13	A-4389-505-A	TONE BOARD, COMPLETE	
14	4-963-404-21	EMBLEM (5-A), SONY	
* 15	4-980-658-01	CASE (413226)	
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51	1-659-976-11	SP SW (B) BOARD		* 65	3-703-244-00	BUSHING (2104), CORD	
* 52	1-659-975-11	SP SW (A) BOARD		66	4-909-982-11	SCREW, TAPPING	
53	4-951-801-01	BUTTON (S)		* 67	1-659-978-11	VOLTAGE SELECTOR BOARD (E)	
* 54	1-659-974-11	SP SW BOARD		68	1-769-746-61	LEAD (WITH CONNECTOR) (2 CORE) (E)	
55	1-533-217-31	HOLDER, FUSE		69	X-3371-405-1	FOOT (SMALL) ASSY	
* 56	1-659-972-11	PRIMARY BOARD (EXCEPT E)		△ 70	1-696-847-11	CORD, POWER (AUS)	
* 57	1-659-973-11	SECONDARY BOARD		△ 70	1-769-743-11	CORD, POWER (US,Canadian)	
* 58	1-659-970-11	STANDBY BOARD		△ 70	1-769-744-11	CORD, POWER (E)	
59	4-924-098-01	HOLDER, PC BOARD		△ 71	1-569-008-21	ADAPTER, CONVERSION 2P (E)	
* 60	4-924-098-31	HOLDER, PC BOARD		△ CNJ902	1-540-057-11	OUTLET, AC (POLAR) (AC OUTLET)	(US,Canadian,E)
61	4-812-134-00	RIVET (DIA. 3.5), NYLON		△ CNJ903	1-251-078-11	OUTLET, AC. (AC OUTLET)(AUS)	
62	3-905-609-01	SCREW (TRANSISTOR)		△ F901	1-532-503-51	FUSE, TIME LAG(T1.6AL/250V)(AUS)	
* 63	A-4389-510-A	MAIN BOARD, COMPLETE (US)		△ F901	1-576-109-11	FUSE (5A/125V)(US,Canadian)	
* 63	A-4389-511-A	MAIN BOARD, COMPLETE (Canadian)		△ F903	1-532-388-51	FUSE, TIME LAG(T2.0AL/250V)(E)	
* 63	A-4389-514-A	MAIN BOARD, COMPLETE (AUS)		△ F904	1-532-388-51	FUSE, TIME LAG(T2.0AL/250V)(E)	
* 63	A-4389-518-A	MAIN BOARD, COMPLETE (E)		△ T901	1-429-516-11	TRANSFORMER, POWER (US)	
* 64	4-980-651-01	PANEL, BACK (US)		△ T901	1-429-517-11	TRANSFORMER, POWER (Canadian)	
* 64	4-980-651-11	PANEL, BACK (Canadian)		△ T901	1-429-518-11	TRANSFORMER, POWER (AUS)	
* 64	4-980-651-31	PANEL, BACK (E)		△ T901	1-429-519-11	TRANSFORMER, POWER (E)	
* 64	4-980-651-51	PANEL, BACK (AUS)					

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

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

SECTION 5 ELECTRICAL PARTS LIST

DISPLAY

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, -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

● Abbreviation

AUS : Australian

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

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

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

Ref. No.	Part No.	Description	Remark
*	A-4389-502-A	DISPLAY BOARD, COMPLETE (US,Canadian)	
*	A-4389-512-A	DISPLAY BOARD, COMPLETE (AUS)	
*	A-4389-515-A	DISPLAY BOARD, COMPLETE (E)	

*	4-921-941-01	CUSHION (FL)	
*	4-943-107-11	HOLDER (FL TUBE)	
< CAPACITOR >			
C201	1-104-905-11	CAPACITOR 0.22F	5.5V
C202	1-164-159-11	CERAMIC 0.1uF	50V
C203	1-124-465-00	ELECT 0.47uF	20% 50V
C204	1-164-159-11	CERAMIC 0.1uF	50V
C205	1-162-294-31	CERAMIC 0.001uF	10% 50V
C206	1-164-159-11	CERAMIC 0.1uF	50V
C207	1-126-096-11	ELECT 10uF	20% 35V
C208	1-162-294-31	CERAMIC 0.001uF	10% 50V
< CONNECTOR >			
* CNS201	1-569-308-11	SOCKET, CONNECTOR 19P(US,Canadian,E,AUS)	
CNS202	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P	
< DIODE >			
D201	8-719-987-63	DIODE 1N4148M	
D202	8-719-987-63	DIODE 1N4148M	
D203	8-719-987-63	DIODE 1N4148M	
D204	8-719-987-63	DIODE 1N4148M	
D211	8-719-987-63	DIODE 1N4148M	
D212	8-719-987-63	DIODE 1N4148M	
D213	8-719-987-63	DIODE 1N4148M	
D215	8-719-987-63	DIODE 1N4148M	
D222	8-719-987-63	DIODE 1N4148M (E,AUS)	
D223	8-719-987-63	DIODE 1N4148M (AUS)	
D224	8-719-987-63	DIODE 1N4148M	
D231	8-719-987-63	DIODE 1N4148M	
D232	8-719-057-30	DIODE HLMF-K205-2UL (E,AUS)	

Ref. No.	Part No.	Description	Remark
< INDICATOR TUBE >			
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC201	8-759-385-78	IC uPD78044AGF-165-3B9	
IC202	8-759-962-08	IC BA6208	
IC203	8-749-923-11	IC GP1U58XB	
< TRANSISTOR >			
Q201	8-729-900-63	TRANSISTOR DTA124ES	
Q202	8-729-900-36	TRANSISTOR DTC124ES	
Q231	8-729-900-36	TRANSISTOR DTC124ES	
< RESISTOR >			
R200	1-249-433-11	CARBON 22K	5% 1/4W
R201	1-247-903-00	CARBON 1M	5% 1/4W
R202	1-249-429-11	CARBON 10K	5% 1/4W
R203	1-249-429-11	CARBON 10K	5% 1/4W
R204	1-249-425-11	CARBON 4.7K	5% 1/4W
R205	1-249-441-11	CARBON 100K	5% 1/4W
R207	1-249-429-11	CARBON 10K	5% 1/4W
R211	1-249-433-11	CARBON 22K	5% 1/4W
R212	1-249-433-11	CARBON 22K	5% 1/4W
R213	1-249-433-11	CARBON 22K	5% 1/4W
R214	1-249-433-11	CARBON 22K	5% 1/4W
R215	1-249-433-11	CARBON 22K	5% 1/4W
R216	1-249-433-11	CARBON 22K	5% 1/4W
R221	1-247-807-31	CARBON 100	5% 1/4W
R222	1-247-807-31	CARBON 100	5% 1/4W
R223	1-247-807-31	CARBON 100	5% 1/4W
R224	1-247-807-31	CARBON 100	5% 1/4W
R226	1-249-441-11	CARBON 100K	5% 1/4W
R227	1-249-441-11	CARBON 100K	5% 1/4W
R228	1-249-411-11	CARBON 330	5% 1/4W
R229	1-249-407-11	CARBON 150	5% 1/4W (E,AUS)

Ref. No.	Part No.	Description	Remark		
R242	1-249-427-11	CARBON	6.8K	5%	1/4W
< SWITCH >					
S200	1-554-303-21	SWITCH, TACTILE (POWER)			
S201	1-554-303-21	SWITCH, TACTILE (1)			
S202	1-554-303-21	SWITCH, TACTILE (2)			
S203	1-554-303-21	SWITCH, TACTILE (3)			
S204	1-554-303-21	SWITCH, TACTILE (DIRECT)			
S206	1-554-303-21	SWITCH, TACTILE (4)			
S207	1-554-303-21	SWITCH, TACTILE (5)			
S208	1-554-303-21	SWITCH, TACTILE (6)			
S211	1-554-303-21	SWITCH, TACTILE (7)			
S212	1-554-303-21	SWITCH, TACTILE (8)			
S213	1-554-303-21	SWITCH, TACTILE (9)			
S214	1-554-303-21	SWITCH, TACTILE (0)			
S215	1-554-303-21	SWITCH, TACTILE (PHONO)			
S221	1-554-303-21	SWITCH, TACTILE (VIDEO)			
S222	1-554-303-21	SWITCH, TACTILE (TV)			
S223	1-554-303-21	SWITCH, TACTILE (TAPE/MD)			
S224	1-554-303-21	SWITCH, TACTILE (CD)			
S225	1-554-303-21	SWITCH, TACTILE (TUNER)			
< VIBRATOR >					
X201	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			

*	A-4389-510-A	MAIN BOARD, COMPLETE (US)			
*	A-4389-511-A	MAIN BOARD, COMPLETE (Canadian)			
*	A-4389-514-A	MAIN BOARD, COMPLETE (AUS)			
*	A-4389-518-A	MAIN BOARD, COMPLETE (E)			

	3-905-609-01	SCREW (TRANSISTOR)			
	4-812-134-00	RIVET (DIA. 3.5), NYLON			
	7-682-548-04	SCREW +BVT 3X8 (S)			
< CAPACITOR >					
C353	1-164-159-11	CERAMIC	0.1uF		50V
C354	1-164-159-11	CERAMIC	0.1uF		50V
C401	1-162-282-31	CERAMIC	100PF	10%	50V
C402	1-126-962-11	ELECT	3.3uF	20%	50V
C403	1-126-966-11	ELECT	33uF	20%	16V
C404	1-162-282-31	CERAMIC	100PF	10%	50V
C405	1-137-459-11	FILM	0.0056uF	5%	100V
C406	1-164-159-11	CERAMIC	0.1uF		50V
C407	1-137-365-11	FILM	0.0015uF	5%	50V
C408	1-162-294-31	CERAMIC	0.001uF	10%	50V
C409	1-126-962-11	ELECT	3.3uF	20%	50V
C410	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-162-291-31	CERAMIC	560PF	10%	50V
C413	1-164-159-11	CERAMIC	0.1uF		50V
C415	1-164-159-11	CERAMIC	0.1uF		50V
C416	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description	Remark		
C421	1-126-964-11	ELECT	10uF	20%	50V
C422	1-124-903-11	ELECT	1uF	20%	50V
C434	1-162-286-31	CERAMIC	220PF	10%	50V
C435	1-162-286-31	CERAMIC	220PF	10%	50V
C451	1-162-282-31	CERAMIC	100PF	10%	50V
C452	1-126-962-11	ELECT	3.3uF	20%	50V
C453	1-126-966-11	ELECT	33uF	20%	16V
C454	1-162-282-31	CERAMIC	100PF	10%	50V
C455	1-137-459-11	FILM	0.0056uF	5%	100V
C457	1-137-365-11	FILM	0.0015uF	5%	50V
C459	1-126-962-11	ELECT	3.3uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C471	1-126-964-11	ELECT	10uF	20%	50V
C472	1-124-903-11	ELECT	1uF	20%	50V
C701	1-126-963-11	ELECT	4.7uF	20%	50V
C702	1-102-973-00	CERAMIC	100PF	5%	50V
C703	1-126-933-11	ELECT	100uF	20%	10V
C705	1-102-233-00	CERAMIC	33PF	10%	500V
C710	1-126-967-11	ELECT	47uF	20%	16V
C711	1-137-372-11	FILM	0.022uF	5%	50V
C720	1-162-286-31	CERAMIC	220PF	10%	50V
C721	1-126-923-11	ELECT	220uF	20%	10V
C722	1-126-965-11	ELECT	22uF	20%	50V
C740	1-128-563-11	ELECT	100uF	20%	100V
C741	1-128-563-11	ELECT	100uF	20%	100V
C742	1-126-923-11	ELECT	220uF	20%	10V
C751	1-126-963-11	ELECT	4.7uF	20%	50V
C752	1-102-973-00	CERAMIC	100PF	5%	50V
C753	1-126-933-11	ELECT	100uF	20%	10V
C755	1-102-233-00	CERAMIC	33PF	10%	500V
C760	1-126-967-11	ELECT	47uF	20%	16V
C761	1-137-372-11	FILM	0.022uF	5%	50V
C770	1-162-286-31	CERAMIC	220PF	10%	50V
C801	1-104-664-11	ELECT	47uF	20%	25V
C802	1-104-664-11	ELECT	47uF	20%	25V
C803	1-109-932-11	ELECT	10000uF	20%	71V
C803	1-107-766-11	ELECT	8200uF	20%	71V
C804	1-109-932-11	ELECT	10000uF	20%	71V
C804	1-107-766-11	ELECT	8200uF	20%	71V
C805	1-137-420-11	FILM	0.047uF	10%	100V
C805	1-130-781-00	FILM	0.22uF	10%	100V
C806	1-137-420-11	FILM	0.047uF	10%	100V
C806	1-130-781-00	FILM	0.22uF	10%	100V
C807	1-104-664-11	ELECT	47uF	20%	25V
C808	1-104-664-11	ELECT	47uF	20%	25V

Ref. No.	Part No.	Description	Remark
C809	1-124-903-11	ELECT	1uF 20% 50V
C810	1-124-903-11	ELECT	1uF 20% 50V
C811	1-126-951-11	ELECT	470uF 20% 35V
C812	1-126-951-11	ELECT	470uF 20% 35V
C813	1-164-088-11	CERAMIC	0.001uF 50V
C814	1-164-088-11	CERAMIC	0.001uF 50V
C815	1-126-947-11	ELECT	47uF 20% 35V
C816	1-126-947-11	ELECT	47uF 20% 35V
C820	1-161-494-00	CERAMIC	0.022uF 25V
C821	1-161-494-00	CERAMIC	0.022uF 25V
C898	1-124-903-11	ELECT	1uF 20% 50V
C950	1-126-952-11	ELECT	1000uF 20% 16V
C951	1-164-097-11	CERAMIC	0.022uF 50V
C952	1-124-903-11	ELECT	1uF 20% 50V
C953	1-124-464-11	ELECT	0.22uF 20% 50V
C954	1-126-964-11	ELECT	10uF 20% 50V
C956	1-164-159-11	CERAMIC	0.1uF 50V

< CONNECTOR >

CNP404	1-569-060-11	PIN, CONNECTOR (PC BOARD) 11P
CNP702	1-770-481-11	PIN, CONNECTOR 4P
CNP706	1-764-477-11	PIN, CONNECTOR (PC BOARD) 8P
CNS204	1-569-323-11	SOCKET, CONNECTOR 19P
CNS802	1-766-200-11	SOCKET, CONNECTOR PIN 5P

< DIODE >

D710	8-719-987-63	DIODE	1N4148M
D721	8-719-815-85	DIODE	1S1585
D722	8-719-815-85	DIODE	1S1585
D723	8-719-987-63	DIODE	1N4148M
D724	8-719-987-63	DIODE	1N4148M
D801	8-719-002-33	DIODE	UZL-24L
D802	8-719-302-38	DIODE	RBV-602-01
D804	8-719-010-38	DIODE	UZ-5.1BSB
D805	8-719-002-33	DIODE	UZL-24L
D810	8-719-024-99	DIODE	11ES2-NTA2B
D811	8-719-024-99	DIODE	11ES2-NTA2B
D812	8-719-024-99	DIODE	11ES2-NTA2B
D813	8-719-024-99	DIODE	11ES2-NTA2B
D814	8-719-987-63	DIODE	1N4148M
D815	8-719-987-63	DIODE	1N4148M
D820	8-719-024-99	DIODE	11ES2-NTA2B
D821	8-719-024-99	DIODE	11ES2-NTA2B
D822	8-719-024-99	DIODE	11ES2-NTA2B
D823	8-719-024-99	DIODE	11ES2-NTA2B

< TERMINAL >

* G200	1-537-738-21	TERMINAL, EARTH
* G201	1-537-738-21	TERMINAL, EARTH
* G202	1-537-738-21	TERMINAL, EARTH

Ref. No.	Part No.	Description	Remark
		< IC >	
IC401	8-759-805-14	IC	LC7822
IC402	8-759-636-74	IC	M5218AP-22
IC403	8-759-636-74	IC	M5218AP-22
IC701	8-759-326-52	IC	uPC2581V
IC801	8-759-287-58	IC	TA78M12P
IC802	8-759-700-69	IC	NJM79L12A
IC950	8-759-333-83	IC	NJM2103D
		< JACK >	
J401	1-695-188-31	JACK, PIN 4P (PHONO, CD)	
J402	1-770-015-11	JACK, PIN 6P (TAPE/MD)	
J403	1-573-028-31	JACK, PIN 4P (TV, VIDEO)	
		< COIL >	
L401	1-410-509-11	INDUCTOR	10uH
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-CORE	

< TRANSISTOR >

Q303	8-729-922-37	TRANSISTOR	2SD2144S
Q304	8-729-922-37	TRANSISTOR	2SD2144S
Q701	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q702	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q703	8-749-010-25	IC	MN2488-OPY-M
Q704	8-749-010-26	IC	MP1620-OPY-M
Q710	8-729-119-78	TRANSISTOR	2SC403SP-51
Q711	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA
Q720	8-729-140-82	TRANSISTOR	2SA988-PAFAEA
Q721	8-729-140-82	TRANSISTOR	2SA988-PAFAEA
Q722	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA
Q723	8-729-119-78	TRANSISTOR	2SC403SP-51
Q751	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q752	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q753	8-749-010-25	IC	MN2488-OPY-M
Q754	8-749-010-26	IC	MP1620-OPY-M
Q770	8-729-140-82	TRANSISTOR	2SA988-PAFAEA
Q801	8-729-140-97	TRANSISTOR	2SB734-34
Q802	8-729-119-78	TRANSISTOR	2SC403SP-51
Q803	8-729-030-18	TRANSISTOR	2SD2525
Q951	8-729-030-18	TRANSISTOR	2SD2525
		< RESISTOR >	
R298	1-249-385-11	CARBON	2.2 5% 1/6W (US,Canadian)
R299	1-249-385-11	CARBON	2.2 5% 1/6W (US,Canadian)
R304	1-249-441-11	CARBON	100K 5% 1/4W
R352	1-249-441-11	CARBON	100K 5% 1/4W
R353	1-249-425-11	CARBON	4.7K 5% 1/4W
R354	1-249-425-11	CARBON	4.7K 5% 1/4W

Ref. No.	Part No.	Description		Remark
R401	1-249-411-11	CARBON	330	5% 1/4W
R402	1-249-421-11	CARBON	2.2K	5% 1/4W
R403	1-249-417-11	CARBON	1K	5% 1/4W
R404	1-249-417-11	CARBON	1K	5% 1/4W
R405	1-249-417-11	CARBON	1K	5% 1/4W
R406	1-249-417-11	CARBON	1K	5% 1/4W
R407	1-249-417-11	CARBON	1K	5% 1/4W
R408	1-249-429-11	CARBON	10K	5% 1/4W
R409	1-249-437-11	CARBON	47K	5% 1/4W
R410	1-247-897-11	CARBON	560K	5% 1/4W
R411	1-249-416-11	CARBON	820	5% 1/4W
R412	1-247-897-11	CARBON	560K	5% 1/4W
R413	1-249-437-11	CARBON	47K	5% 1/4W
R414	1-249-425-11	CARBON	4.7K	5% 1/4W
R416	1-249-417-11	CARBON	1K	5% 1/4W
R417	1-247-897-11	CARBON	560K	5% 1/4W
R418	1-249-417-11	CARBON	1K	5% 1/4W
R419	1-249-417-11	CARBON	1K	5% 1/4W
R420	1-249-441-11	CARBON	100K	5% 1/4W
R421	1-249-417-11	CARBON	1K	5% 1/4W
R435	1-249-418-11	CARBON	1.2K	5% 1/4W
R442	1-249-418-11	CARBON	1.2K	5% 1/4W
R443	1-249-418-11	CARBON	1.2K	5% 1/4W
R447	1-249-416-11	CARBON	820	5% 1/4W
R448	1-249-429-11	CARBON	10K	5% 1/4W
R449	1-249-433-11	CARBON	22K	5% 1/4W
R451	1-249-411-11	CARBON	330	5% 1/4W
R452	1-249-421-11	CARBON	2.2K	5% 1/4W
R453	1-249-417-11	CARBON	1K	5% 1/4W
R454	1-249-417-11	CARBON	1K	5% 1/4W
R455	1-249-417-11	CARBON	1K	5% 1/4W
R456	1-249-417-11	CARBON	1K	5% 1/4W
R457	1-249-417-11	CARBON	1K	5% 1/4W
R458	1-249-429-11	CARBON	10K	5% 1/4W
R459	1-249-437-11	CARBON	47K	5% 1/4W
R460	1-247-897-11	CARBON	560K	5% 1/4W
R461	1-249-416-11	CARBON	820	5% 1/4W
R462	1-247-897-11	CARBON	560K	5% 1/4W
R463	1-249-437-11	CARBON	47K	5% 1/4W
R466	1-249-417-11	CARBON	1K	5% 1/4W
R467	1-247-897-11	CARBON	560K	5% 1/4W
R470	1-249-441-11	CARBON	100K	5% 1/4W
R471	1-249-417-11	CARBON	1K	5% 1/4W
R701	1-249-417-11	CARBON	1K	5% 1/4W
R702	1-249-439-11	CARBON	68K	5% 1/4W
R703	1-249-412-11	CARBON	390	5% 1/4W
R704	1-249-439-11	CARBON	68K	5% 1/4W
R710	1-249-421-11	CARBON	2.2K	5% 1/4W
R711	1-249-437-11	CARBON	47K	5% 1/4W
R713	1-249-414-11	CARBON	560	5% 1/4W
△ R714	1-249-408-11	CARBON	180	5% 1/4W F

Ref. No.	Part No.	Description		Remark
△ R715	1-249-408-11	CARBON	180	5% 1/4W F
△ R716	1-233-352-21	ENCAPSULATED COMPONENT		F (US,Canadian,E)
△ R716	1-233-594-11	ENCAPSULATED COMPONENT		F (AUS)
R717	1-249-393-11	CARBON	10	5% 1/4W F
R718	1-249-389-11	CARBON	4.7	5% 1/4W
R720	1-249-419-11	CARBON	1.5K	5% 1/4W
R721	1-249-427-11	CARBON	6.8K	5% 1/4W
R723	1-249-437-11	CARBON	47K	5% 1/4W
R724	1-249-429-11	CARBON	10K	5% 1/4W
R725	1-249-429-11	CARBON	10K	5% 1/4W
R726	1-249-417-11	CARBON	1K	5% 1/4W
R727	1-249-427-11	CARBON	6.8K	5% 1/4W
R730	1-249-429-11	CARBON	10K	5% 1/4W
△ R740	1-249-393-11	CARBON	10	5% 1/4W F
△ R741	1-249-393-11	CARBON	10	5% 1/4W F
R743	1-249-417-11	CARBON	1K	5% 1/4W
R744	1-249-425-11	CARBON	4.7K	5% 1/4W
R745	1-249-435-11	CARBON	33K	5% 1/4W
R751	1-249-417-11	CARBON	1K	5% 1/4W
R752	1-249-439-11	CARBON	68K	5% 1/4W
R753	1-249-412-11	CARBON	390	5% 1/4W
R754	1-249-439-11	CARBON	68K	5% 1/4W
R760	1-249-421-11	CARBON	2.2K	5% 1/4W
R761	1-249-437-11	CARBON	47K	5% 1/4W
R763	1-249-414-11	CARBON	560	5% 1/4W
△ R764	1-249-408-11	CARBON	180	5% 1/4W F
△ R765	1-249-408-11	CARBON	180	5% 1/4W F
△ R766	1-233-352-21	ENCAPSULATED COMPONENT		F (US,Canadian,E)
△ R766	1-233-594-11	ENCAPSULATED COMPONENT		F (AUS)
△ R767	1-249-393-11	CARBON	10	5% 1/4W F
R768	1-249-389-11	CARBON	4.7	5% 1/4W
R770	1-249-419-11	CARBON	1.5K	5% 1/4W
R771	1-249-427-11	CARBON	6.8K	5% 1/4W
R773	1-249-437-11	CARBON	47K	5% 1/4W
R801	1-249-425-11	CARBON	4.7K	5% 1/4W
△ R802	1-247-739-11	CARBON	100	5% 1/2W F
△ R806	1-247-739-11	CARBON	100	5% 1/2W F
R807	1-249-425-11	CARBON	4.7K	5% 1/4W
R821	1-249-437-11	CARBON	47K	5% 1/4W
R822	1-249-425-11	CARBON	4.7K	5% 1/4W
R950	1-249-421-11	CARBON	2.2K	5% 1/4W
R951	1-249-429-11	CARBON	10K	5% 1/4W
R952	1-249-423-11	CARBON	3.3K	5% 1/4W
R953	1-249-433-11	CARBON	22K	5% 1/4W
R954	1-249-439-11	CARBON	68K	5% 1/4W
R955	1-249-429-11	CARBON	10K	5% 1/4W
R956	1-249-423-11	CARBON	3.3K	5% 1/4W
R957	1-249-417-11	CARBON	1K	5% 1/4W
R960	1-249-429-11	CARBON	10K	5% 1/4W

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MAIN

PRIMARY

SECONDARY

SP SW (A)

SP SW (B)

SP SW

STANDBY

Ref. No.	Part No.	Description	Remark
		< RELAY >	
RY701	1-515-920-11	RELAY (24V)	
		< TERMINAL >	
TM1	1-537-240-51	TERMINAL BOARD (CHECKER PIN) (US, Canadian,E)	
TM1	1-537-714-11	TERMINAL BOARD (ANTENNA) (AUS)	
TM701	1-537-376-11	TERMINAL BOARD (SP)	
		< TUNER >	
TU001	1-233-593-11	ENCAPSULATED COMPONENT (US,Canadian)	
TU001	1-233-594-11	ENCAPSULATED COMPONENT (E)	
TU001	1-233-308-11	ENCAPSULATED COMPONENT (AUS)	

*	1-659-972-11	PRIMARY BOARD (EXCEPT E)	

	1-533-217-31	HOLDER, FUSE	
		< FUSE >	
△ F901	1-532-503-51	FUSE, TIME LAG(T1.6AL/250V) (AUS)	
△ F901	1-576-109-11	FUSE (5A/125V) (US,Canadian)	

*	1-659-973-11	SECONDARY BOARD	

		< CONNECTOR >	
CNP801	1-764-478-11	PIN, CONNECTOR (PC BOARD) 9P	
		< RESISTOR >	
△ R810	1-249-381-11	CARBON 1 5% 1/4W F	
△ R811	1-249-381-11	CARBON 1 5% 1/4W F	

*	1-659-975-11	SP SW (A) BOARD	

*	1-659-976-11	SP SW (B) BOARD	

		< CONNECTOR >	
CNS702	1-770-482-11	CONNECTOR, BOARD TO BOARD 4P	

*	1-659-974-11	SP SW BOARD	

		< CONNECTOR >	
CNP703	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P	
CNP704	1-764-473-11	PIN, CONNECTOR (PC BOARD) 3P	

Ref. No.	Part No.	Description	Remark
		< JACK >	
J741	1-750-733-11	JACK (LARGE TYPE) (PHONES)	
		< RESISTOR >	
R741	1-247-753-11	CARBON 1.2K 5% 1/2W	
R742	1-247-753-11	CARBON 1.2K 5% 1/2W	
R791	1-247-753-11	CARBON 1.2K 5% 1/2W	
R792	1-247-753-11	CARBON 1.2K 5% 1/2W	
		< SWITCH >	
S701	1-762-320-11	SWITCH, PUSH (2 KEY) (SPEAKERS A/B)	

*	1-659-970-11	STANDBY BOARD	

	1-533-217-31	HOLDER, FUSE	
		< CONNECTOR >	
CN902	1-564-321-00	PIN, CONNECTOR 2P	
		< JACK >	
△ CNJ902	1-540-057-11	OUTLET, AC (POLAR) (AC OUTLET) (US,Canadian,E)	
△ CNJ903	1-251-078-11	OUTLET, AC. (AC OUTLET) (AUS)	
		< CONNECTOR >	
CNP802	1-766-203-11	PLUG,CONNECTOR PIN(PC BOARD)5P	
CNP901	1-564-321-00	PIN, CONNECTOR 2P	
CNP903	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (AUS)	
CNP905	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P (E)	
* CNP906	1-564-687-11	PIN, CONNECTOR 3P (E)	
		< DIODE >	
D816	8-719-987-63	DIODE 1N4148M	
		< FUSE >	
△ F903	1-532-388-51	FUSE, TIME LAG (T2.0AL/250V) (E)	
		< TERMINAL, EARTH >	
* G900	1-537-738-21	TERMINAL, EARTH (US,Canadian)	
		< RESISTOR >	
△ R901	1-202-725-00	SOLID 3.3M 10% 1/2W F (US,Canadian)	
		< RELAY >	
△ RY901	1-515-720-11	RELAY	

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STANDBY

TONE

VOLTAGE SELECTOR

VOLUME

Ref. No.	Part No.	Description	Remark		
< TRANSFORMER >					
△ T902	1-450-361-11	TRANSFORMER, POWER (US,Canadian)			
△ T902	1-450-358-11	TRANSFORMER, POWER (E,AUS)			

*	A-4389-505-A	TONE BOARD, COMPLETE			

< CAPACITOR >					
C421	1-137-440-11	FILM	0.018uF	5%	50V
C422	1-124-463-00	ELECT	0.1uF	20%	50V
C423	1-137-368-11	FILM	0.0047uF	5%	50V
C424	1-137-372-11	FILM	0.022uF	5%	50V
C471	1-137-440-11	FILM	0.018uF	5%	50V
C472	1-124-463-00	ELECT	0.1uF	20%	50V
C473	1-137-368-11	FILM	0.0047uF	5%	50V
C474	1-137-372-11	FILM	0.022uF	5%	50V
< CONNECTOR >					
* CNP203	1-569-799-11	PLUG, CONNECTOR 5P			
< CONNECTOR >					
* CNS203	1-565-481-11	CONNECTOR, BOARD TO BOARD 5P			
CNS401	1-770-399-11	HOUSING, CONNECTOR (PC BOARD) 6P			
< DIODE >					
D238	8-719-313-72	LED	SEL3810A-CD (BASS BOOST)		
< RESISTOR >					
R231	1-249-427-11	CARBON	6.8K	5%	1/4W
R236	1-249-411-11	CARBON	330	5%	1/4W
R237	1-249-413-11	CARBON	470	5%	1/4W
R238	1-249-415-11	CARBON	680	5%	1/4W
R239	1-249-417-11	CARBON	1K	5%	1/4W
R240	1-249-419-11	CARBON	1.5K	5%	1/4W
R241	1-249-421-11	CARBON	2.2K	5%	1/4W
R243	1-249-429-11	CARBON	10K	5%	1/4W
R244	1-249-425-11	CARBON	4.7K	5%	1/4W
R421	1-249-431-11	CARBON	15K	5%	1/4W
R422	1-249-422-11	CARBON	2.7K	5%	1/4W
R423	1-247-903-00	CARBON	1M	5%	1/4W
R424	1-247-903-00	CARBON	1M	5%	1/4W
R425	1-249-415-11	CARBON	680	5%	1/4W
R471	1-249-431-11	CARBON	15K	5%	1/4W
R472	1-249-422-11	CARBON	2.7K	5%	1/4W
R473	1-247-903-00	CARBON	1M	5%	1/4W
R474	1-247-903-00	CARBON	1M	5%	1/4W
R475	1-249-415-11	CARBON	680	5%	1/4W
< VARIABLE RESISTOR >					
RV421	1-223-362-11	RES. VAR. CARBON 100K/100K (BASS)			

Ref. No.	Part No.	Description	Remark
RV422	1-223-363-11	RES, VAR, CARBON 125K/125K (TREBLE)	
RV423	1-238-965-21	RES, VAR, CARBON 100K/100K (BALANCE)	
< SWITCH >			
S230	1-554-303-21	SWITCH, TACTILE (PRESET TUNING -)	
S231	1-554-303-21	SWITCH, TACTILE (TUNING -)	
S232	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)	
S233	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S234	1-554-303-21	SWITCH, TACTILE (FM/AM)	
S235	1-554-303-21	SWITCH, TACTILE (FM MODE)	
S236	1-554-303-21	SWITCH, TACTILE (BASS BOOST)	
S237	1-554-303-21	SWITCH, TACTILE (TUNING +)	
S238	1-554-303-21	SWITCH, TACTILE (MEMORY)	

*	1-659-978-11	VOLTAGE SELECTOR BOARD (E)	

	1-533-217-31	HOLDER, FUSE	
< CONNECTOR >			
* CNP907	1-565-395-11	PIN, CONNECTOR 3P (E)	
CNP908	1-564-321-00	PIN, CONNECTOR 2P (E)	
* CNP910	1-564-687-11	PIN, CONNECTOR 3P (E)	
< FUSE >			
△ F904	1-532-388-51	FUSE, TIME LAG(T2.0AL/250V)(E)	
< SWITCH >			
△ S901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(E)	

*	A-4389-504-A	VOLUME BOARD, COMPLETE	

< CAPACITOR >			
C420	1-162-207-31	CERAMIC	22PF 5% 50V
C425	1-126-096-11	ELECT	10uF 20% 35V
C426	1-126-096-11	ELECT	10uF 20% 35V
C427	1-124-252-00	ELECT	0.33uF 20% 50V
C428	1-130-489-00	MYLAR	0.033uF 5% 50V
C429	1-102-973-00	CERAMIC	100PF 5% 50V
C430	1-126-301-11	ELECT	1uF 20% 50V
C431	1-126-301-11	ELECT	1uF 20% 50V
C432	1-126-096-11	ELECT	10uF 20% 35V
C433	1-126-096-11	ELECT	10uF 20% 35V
C470	1-162-207-31	CERAMIC	22PF 5% 50V
C475	1-126-096-11	ELECT	10uF 20% 35V
C476	1-126-096-11	ELECT	10uF 20% 35V
C477	1-124-252-00	ELECT	0.33uF 20% 50V
C478	1-130-489-00	MYLAR	0.033uF 5% 50V
C479	1-102-973-00	CERAMIC	100PF 5% 50V

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Ref. No.	Part No.	Description	Remark		
C492	1-124-464-11	ELECT	0.22uF	20%	50V
< CONNECTOR >					
CNP202	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP401	1-770-390-11	PIN, CONNECTOR (PC BOARD) 6P			
CNS403	1-569-060-11	PIN, CONNECTOR (PC BOARD) 11P			
< DIODE >					
D421	8-719-987-63	DIODE	1N4148M		
< IC >					
IC404	8-759-636-74	IC	M5218AP-22		
< TRANSISTOR >					
Q401	8-729-202-67	TRANSISTOR	2SK246-GR3		
Q402	8-729-922-37	TRANSISTOR	2SD2144S		
Q451	8-729-202-67	TRANSISTOR	2SK246-GR3		
Q452	8-729-922-37	TRANSISTOR	2SD2144S		
< RESISTOR >					
R425	1-249-429-11	CARBON	10K	5%	1/4W
R426	1-249-439-11	CARBON	68K	5%	1/4W
R427	1-249-417-11	CARBON	1K	5%	1/4W
R430	1-249-437-11	CARBON	47K	5%	1/4W
R431	1-249-423-11	CARBON	3.3K	5%	1/4W
R432	1-247-883-00	CARBON	150K	5%	1/4W
R433	1-249-427-11	CARBON	6.8K	5%	1/4W
R434	1-249-413-11	CARBON	470	5%	1/4W
R438	1-249-441-11	CARBON	100K	5%	1/4W
R441	1-249-441-11	CARBON	100K	5%	1/4W
R444	1-247-903-00	CARBON	1M	5%	1/4W
R464	1-247-903-00	CARBON	1M	5%	1/4W
R469	1-247-903-00	CARBON	1M	5%	1/4W
R475	1-249-429-11	CARBON	10K	5%	1/4W
R476	1-249-439-11	CARBON	68K	5%	1/4W
R477	1-249-417-11	CARBON	1K	5%	1/4W
R480	1-249-437-11	CARBON	47K	5%	1/4W
R481	1-249-423-11	CARBON	3.3K	5%	1/4W
R482	1-247-883-00	CARBON	150K	5%	1/4W
R483	1-249-427-11	CARBON	6.8K	5%	1/4W
R484	1-249-413-11	CARBON	470	5%	1/4W
R491	1-249-441-11	CARBON	100K	5%	1/4W
R492	1-247-903-00	CARBON	1M	5%	1/4W
R494	1-247-903-00	CARBON	1M	5%	1/4W
< VARIABLE RESISTOR >					
RV404	1-241-426-11	RES, VAR, CARBON 100KX2 (VOLUME)			

Ref. No.	Part No.	Description	Remark
MISCELLANEOUS			

9	1-773-114-11	WIRE (FLAT TYPE) (19 CORE)	
10	1-769-941-11	WIRE (FLAT TYPE) (11 CORE)	
68	1-769-746-61	LEAD (WITH CONNECTOR) (2 CORE) (E)	
△ 70	1-696-847-11	CORD, POWER (AUS)	
△ 70	1-769-743-11	CORD, POWER (US,Canadian)	
△ 70	1-769-744-11	CORD, POWER (E)	
△ 71	1-569-008-21	ADAPTER, CONVERSION 2P (E)	
△ CNJ902	1-540-057-11	OUTLET, AC (POLAR) (AC OUTLET)	(US,Canadian,E)
△ CNJ903	1-251-078-11	OUTLET, AC. (AC OUTLET) (AUS)	
△ F901	1-532-503-51	FUSE, TIME LAG(T1.6AL/250V)(AUS)	
△ F901	1-576-109-11	FUSE (5A/125V)(US,Canadian)	
△ F903	1-532-388-51	FUSE, TIME LAG(T2.0AL/250V)(E)	
△ F904	1-532-388-51	FUSE, TIME LAG(T2.0AL/250V)(E)	
△ T901	1-429-516-11	TRANSFORMER, POWER (US)	
△ T901	1-429-517-11	TRANSFORMER, POWER (Canadian)	
△ T901	1-429-518-11	TRANSFORMER, POWER (AUS)	
△ T901	1-429-519-11	TRANSFORMER, POWER (E)	

ACCESSORIES & PACKING MATERIALS			

	1-473-632-11	REMOTE COMMANDER	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM) (AUS)	
	3-810-995-21	MANUAL, INSTRUCTION (ENGLISH)	(US,Canadian,AUS)
	3-810-995-31	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-810-995-71	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/CHINESE) (E)	
	4-981-643-01	COVER, BATTERY (FOR REMOTE COMMANDER)	
*	4-982-144-01	INDIVIDUAL CARTON	

HARDWARE LIST			

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-682-560-04	SCREW +BVTT 4X6 (S)	
#3	7-682-548-04	SCREW +BVTT 3X8 (S)	

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