


# STR-DE445/DE545/SE501

## SERVICE MANUAL



Photo: STR-DE445

*US Model*  
STR-DE445/DE545/SE501  
*Canadian Model*  
*AEP Model*  
*UK Model*  
STR-DE445/DE545  
*E Model*  
*Australian Model*  
*Chinese Model*  
*PX Model*  
STR-DE545

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are trademarks of Dolby Laboratories Licensing Corporation.

### SPECIFICATIONS

#### AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8  $\Omega$  loads, both channels driven, from  
20 – 20,000 Hz; rated 100<sup>W</sup> per channel  
minimum RMS power, with no more than  
0.09% total harmonic distortion from 250  
mW to rated output (US model only).

STR-DE445:

a) 80 W

#### Amplifier section

Rated Power Output at Stereo mode

US model:

(8  $\Omega$  20 Hz – 20 kHz, THD  
0.09 %)

EXCEPT US:

(8  $\Omega$  1 kHz, THD 0.7 %)

STR-DE545/SE501:

100 W + 100 W

STR-DE445:

80 W + 80 W

Reference Power Output

(8  $\Omega$  at 1 kHz, THD 0.7 %)

STR-DE545/SE501:

Front: 100 W + 100 W

Center: 100 W

Rear: 100 W + 100 W

STR-DE445:

Front: 80 W + 80 W

Center: 80 W

Rear: 80 W + 80 W

Frequency response

CD, MD/TAPE, DVD/LD, TV/

SAT, VIDEO, AUX:

10 Hz – 50 kHz +0.5/–2 dB

(with sound field, tone, and

bass boost bypassed)

Inputs (Analog) 5.1 CH INPUT, CD, DVD/LD,  
MD/TAPE, TV/SAT, VIDEO,  
AUX:  
Sensitivity: 250 mV  
Impedance: 50 k $\Omega$   
S/N<sup>b)</sup>: 96 dB (A, 250 mV<sup>c)</sup>)

b) Input short.

c) Weighted network, input level.

Inputs (Digital) DVD/LD (coaxial):  
Sensitivity: —  
Impedance: 75  $\Omega$   
S/N: 100 dB (A, 20 kHz LPF)  
DVD/LD, TV/SAT\* (Optical):  
Sensitivity: —  
Impedance: —  
S/N: 100 dB (A, 20 kHz LPF)

\*) STR-DE545 and STR-SE501 only.

Outputs MD/TAPE, (REC OUT); VIDEO  
(AUDIO OUT):  
Voltage: 250 mV,  
Impedance: 10 k $\Omega$   
SUB WOOFER:  
Voltage: 2 V  
Impedance: 1 k $\Omega$   
PHONES:  
Accepts low- and high-  
impedance headphones

BASS BOOST +6 dB at 70 Hz  
TONE  $\pm$ 6 dB at 100 Hz and 10 kHz  
Sampling Frequency  
48 kHz

#### FM tuner section

Tuning range 87.5 – 108.0 MHz  
Antenna terminals 75  $\Omega$ , unbalanced  
Sensitivity Mono: 18.3 dBf, 2.2  $\mu$ V/75  $\Omega$   
Stereo: 38.3 dBf, 22.5  $\mu$ V/75  $\Omega$   
Usable sensitivity 11.2 dBf, 1  $\mu$ V/75  $\Omega$   
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/–2 dB  
Selectivity 60 dB at 400 kHz


— Continued on next page —

## FM STEREO FM-AM RECEIVER

# SONY®

### AM tuner section

Tuning range	With 10-kHz tuning scale: 530 – 1,710 kHz <sup>d)</sup> With 9-kHz tuning scale: 531 – 1,710 kHz <sup>d)</sup>
Antenna	Loop antenna
Usable sensitivity	50dB/m (at 1,000kHz or 999kHz)
S/N	54dB (at 50mV/m)
Harmonic distortion	0.5% (50mV/m, 400kHz)
Selectivity	At 9kHz: 35dB At 10kHz: 40dB

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

### Video section

Inputs	Video: 1Vp-p 75Ω S-video*: Y: 1Vp-p 75Ω C: 0.286Vp-p 75Ω
Outputs	Video: 1Vp-p 75Ω S-video*: Y: 1Vp-p 75Ω C: 0.286Vp-p 75Ω

\* STR-DE545 and STR-SE501 only.

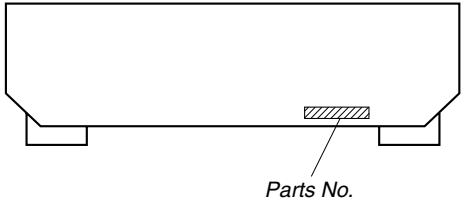
### General

System	Tuner section: PLL quartz-locked digital synthesizer system Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complementary SEPP
Power requirements	US, Canadian model: 120V AC, 60Hz Taiwan model: 110V AC, 60Hz Chinese, Singapore, Malaysia model: 220 – 230V AC, 50/60Hz AEP, UK, CIS model: 230V AC, 50/60Hz Australian model: 240V AC, 50/60Hz E, PX model: 120V or 220V or 240V AC, 50/60Hz
Power consumption	STR-DE545/SE501: US model: 190W AEP, UK model: 220W STR-DE445: US model: 185W AEP, UK model: 160W
AC outlets (STR-DE545 and STR-SE501 only)	US model: Iswitched, total 120W/1A Max EXCEPT US: Iswitched, max 100W
Dimensions	430 × 303 × 157 mm (17 × 12 × 6 1/4 inches) including projecting parts and controls
Mass (Aporox.)	STR-DE545: 7.9kg (17 lbs. 7 oz) STR-DE445: 7.7kg (16 lbs. 16 oz) STR-SE501: 8.2kg (18 lbs. 2 oz)
Supplid accessories	FM wire antenna (1) AM loop antenna (1) R6 (size-AA) batteries (2) STR-DE545 and STR-SE501 only Remote Commander RM-PP404 (remote) (1) Operating instructions of the remote (1) Operating instructions of CONTROLA1 II (1) STR-DE445 only Remote Commander RM-U304 (remote) (1)

Design and specifications are subject to change without notice.

### MODEL IDENTIFICATION

#### — BACK PANEL —



MODEL	PARTS No.
DE545: US model	4-226-802-0□
DE545: Canadian model	4-226-802-1□
DE545: Australian model	4-226-802-2□
DE545: E, PX model	4-226-802-3□
DE545: Malaysia, Singapore model	4-226-802-4□
DE545: Chinese model	4-226-802-5□
DE545: AEP, UK, CIS model	4-226-802-6□
DE545: Taiwan model	4-226-802-7□
DE445: US model	4-226-808-0□
DE445: Canadian model	4-226-808-1□
DE445: AEP, UK model	4-226-808-2□
DE445: CIS model	4-226-808-3□
SE501: US model	4-227-063-0□

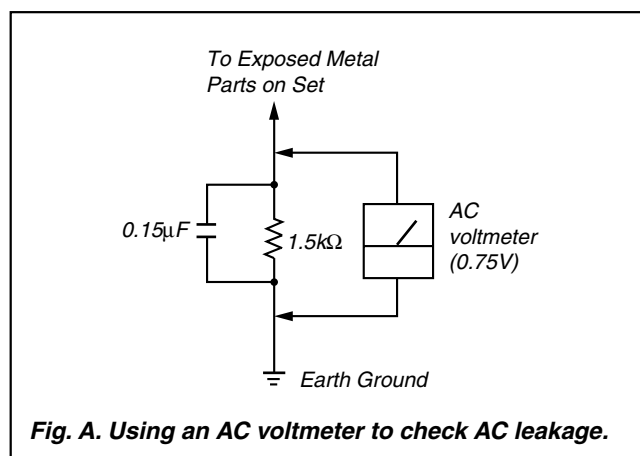
## SAFETY CHECK-OUT (US model)

After correcting the original service problem, perform the following safety checks 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

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 2V AC range are suitable. (See Fig. A)



### 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.

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### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  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.

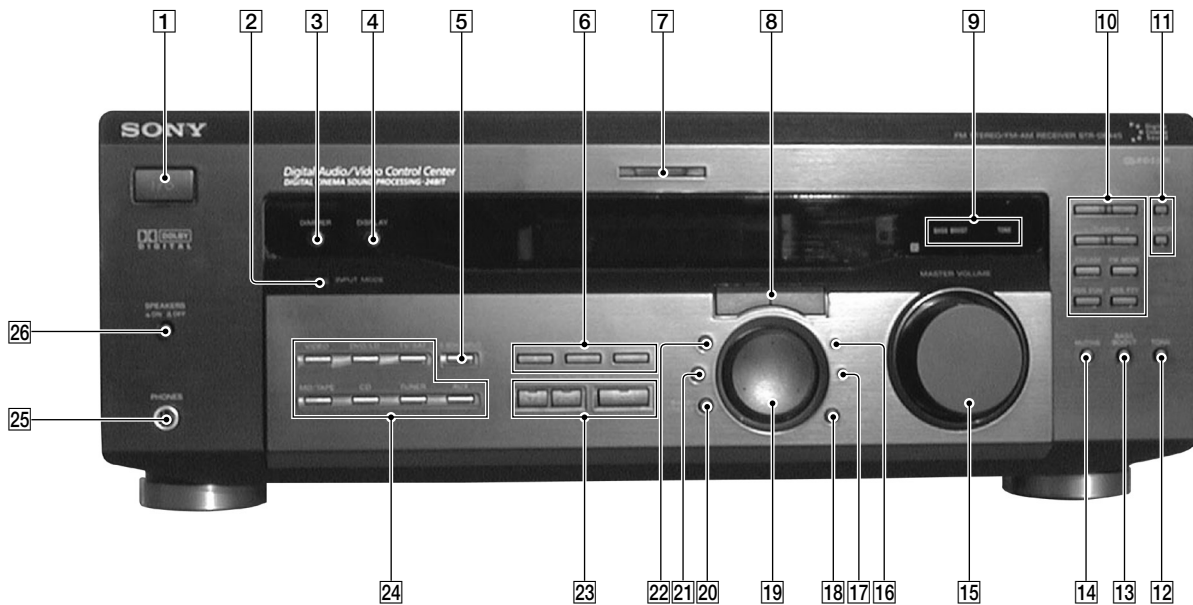
### 与安全有关的零部件须知

在原理图上用阴影及  $\triangle$  标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时, 请进行这些调整操作。

## SECTION 1 GENERAL

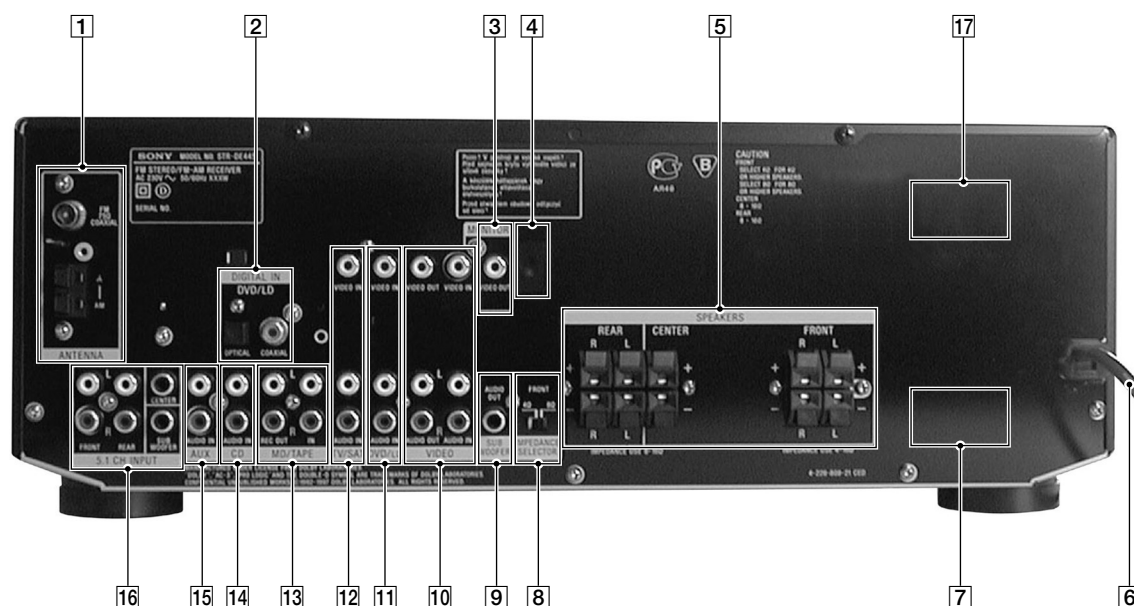
### FRONT PANEL



**PHOTO: STR-DE445**

- |   |   |
|---|---|
| <b>1</b> I/⏻ button   | <b>14</b> MUTE button   |
| <b>2</b> INPUT MODE button  | <b>15</b> MASTER VOLUME knob  |
| <b>3</b> DIMMER button  | <b>16</b> SET UP button   |
| <b>4</b> DISPLAY button   | <b>17</b> NAME button   |
| <b>5</b> 5.1CH INPUT button   | <b>18</b> ENTER button  |
| <b>6</b> CHINEMA STUDIO A button<br>CHINEMA STUDIO B button<br>CHINEMA STUDIO C button  | <b>19</b> Jog dial  |
| <b>7</b> MULTI CHANNEL DECODING indicator   | <b>20</b> BASS/TREBLE button  |
| <b>8</b> <, > buttons   | <b>21</b> SUR button  |
| <b>9</b> BASS BOOST indicator<br>TONE indicator   | <b>22</b> LEVEL button  |
| <b>10</b> PRESET TUNING +/- buttons<br>TUNING +/- buttons<br>FM/AM button<br>FM MODE button<br>RDS EON button (AEP, UK, CIS model)<br>RDS PTY button (AEP, UK, CIS model) | <b>23</b> A.F.D button/indicator<br>2CH button/indicator<br>MODE button/indicator                                     |
| <b>11</b> SHIFT button<br>MEMORY button   | <b>24</b> VIDEO button<br>DVD/LD button<br>TV/SAT button<br>MD/TAPE button<br>CD button<br>TUNER button<br>AUX button |
| <b>12</b> TONE button   | <b>25</b> PHONES jack   |
| <b>13</b> BASS BOOST button   | <b>26</b> SPEAKER A button<br>SPEAKER B button (DE545, SE501 model)   |

## REAR PANEL



**PHOTO: STR-DE445**

- |  |  |
|--|--|
| <p><b>1</b> ANTENNA terminal</p> <p><b>2</b> DIGITAL IN jack<br/>TV/SAT OPTICAL (DE545, SE501 model)<br/>DVD/LD OPTICAL (DE545, SE501 model) COAXIAL</p> <p><b>3</b> MONITOR jack<br/>VIDEO OUT<br/>S-VIDEO OUT (DE545, SE501 model)</p> <p><b>4</b> CTRL A1 II jack (DE545, SE501 model)</p> <p><b>5</b> SPEAKERS terminal<br/>REAR<br/>CENTER<br/>FRONT A<br/>FRONT B (DE545, SE501 model)</p> <p><b>6</b> AC power cord</p> <p><b>7</b> AC OUTLET (DE545, SE501 model)</p> <p><b>8</b> IMPEDANCE SELECTOR switch (DE545, SE501 model)</p> <p><b>9</b> SUB WOOFER jack</p> <p><b>10</b> VIDEO jack<br/>VIDEO IN/OUT<br/>AUDIO IN/OUT</p> | <p><b>11</b> DVD/LD jack<br/>VIDEO IN<br/>S-VIDEO IN (DE545, SE501 model)<br/>AUDIO IN</p> <p><b>12</b> TV/SAT jack<br/>VIDEO IN<br/>AUDIO IN</p> <p><b>13</b> MD/TAPE jack</p> <p><b>14</b> CD jack</p> <p><b>15</b> AUX jack</p> <p><b>16</b> 5.1CH INPUT jack<br/>FRONT<br/>REAR<br/>CENTER<br/>SUB WOOFER</p> <p><b>17</b> VOLTAGE SELECTOR switch (E, PX model)</p> |
|--|--|

## SECTION 2 TEST MODE

### SOFTWARE VERSION DISPLAY MODE

\* The software version is displayed.

\* Procedure:

While depressing the TUNER and the VIDEO buttons simultaneously, press the power [I/⏻] button to turn on the main power. The model name, destination and the software version are displayed.

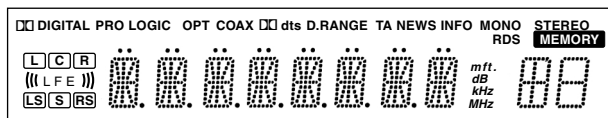
### FLUORESCENT INDICATOR TUBE TEST MODE

\* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

\* Procedure:

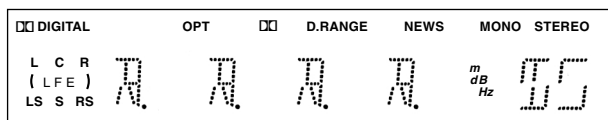
While depressing the TV/SAT and the CD buttons simultaneously, press the power [I/⏻] button to turn on the main power.

1. All segments turn on.



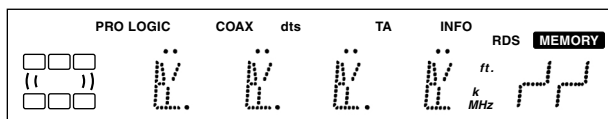
A.F.D, LEVEL, BASS/TREBLE, SET UP and MUTING LED turn on.

2. Press the VIDEO button, confirm display



2CH, SUR, NAME and JOG dial LED turn on.

3. Press the VIDEO button, confirm display



MODE, BASS BOOST, TONE and Digital Cinema Sound LED turn on.

4. Press the VIDEO button, All segments turn off.

5. Every pressing of the VIDEO button turns on each segment one after another in the following order.

(Not only the VIDEO button, but also the other buttons such as DVD/LD, TV/SAT, MD/TAPE, CD, TUNER, AUX can be used.)

### FACTORY SET MODE

\* All preset contents are reset to the default setting.

\* Procedure:

While depressing the VIDEO and the CD buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message FACTORY appears and the present contents are reset to the default values.

### ALL CLEAR MODE

\* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

\* Procedure:

While depressing the TUNER and the MD/TAPE buttons simultaneously, press the power [I/⏻] button to turn on the main power. Alternatively, press [I/⏻] more than 4S. The message ALL CLEAR appears and initialization is performed.

### SURROUND CLEAR MODE

\* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

\* Procedure:

While depressing the SOUND FIELD MODE button, press the power [I/⏻] button to turn on the main power. The message SURR CLR appears and initialization is performed.

### AM CHANNEL STEP 9 KHZ/10 KHZ

#### SELECTION MODE (US, Canadian, E, PX model)

\* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

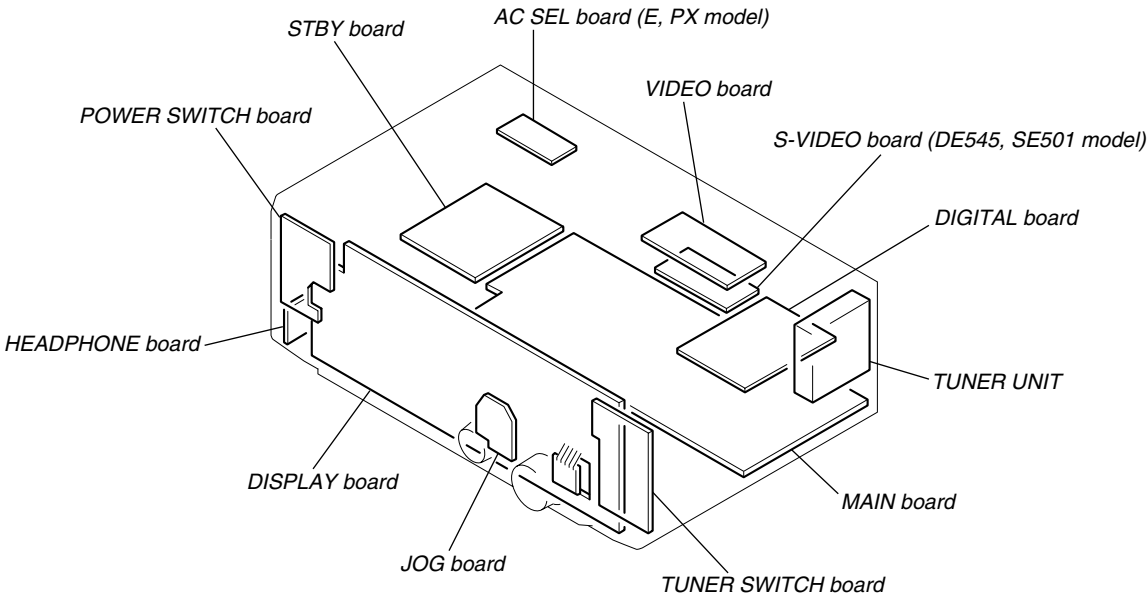
\* Procedure:

Set the FUNCTION to AM. Turn off the main power.

While depressing the TUNING+ button or the PRESET+ button, press the power [I/⏻] button to turn on the main power. Either the message AM 9k STEP or AM 10k STEP appears. Select the desired step.

SECTION 3  
DIAGRAMS




3-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING  
BOARDS AND SCHEMATIC DIAGRAMS.  
(In addition to this necessary note is printed in each  
block.)

For schematic diagrams.

Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- % : indicates tolerance.
- $\Delta$  : internal component.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.







Note:

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

Note:





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

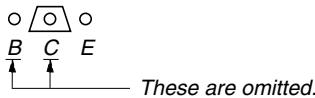
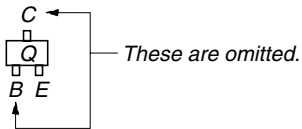
以阴影和  $\Delta$  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. No mark : FM
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  -  : FM
  -  : CD
  -  : digital out
- Abbreviation
  - CND : Canadian model
  - AUS : Australian model
  - CH : Chinese model
  - MY : Malaysia model
  - SP : Singapore model
  - TW : Taiwan model

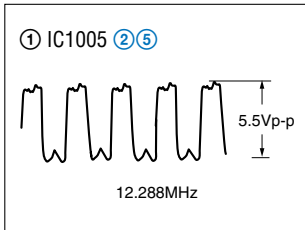
For printed wiring boards.

Note:

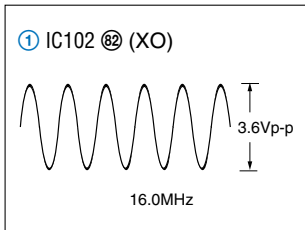
-  : parts extracted from the component side.
-  : Through hole.
-  : internal component.
-  : Pattern from the side which enables seeing.



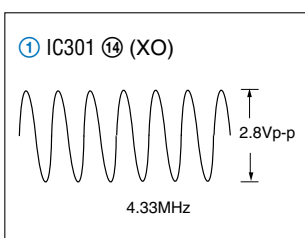
• Waveform  
DIGITAL Board



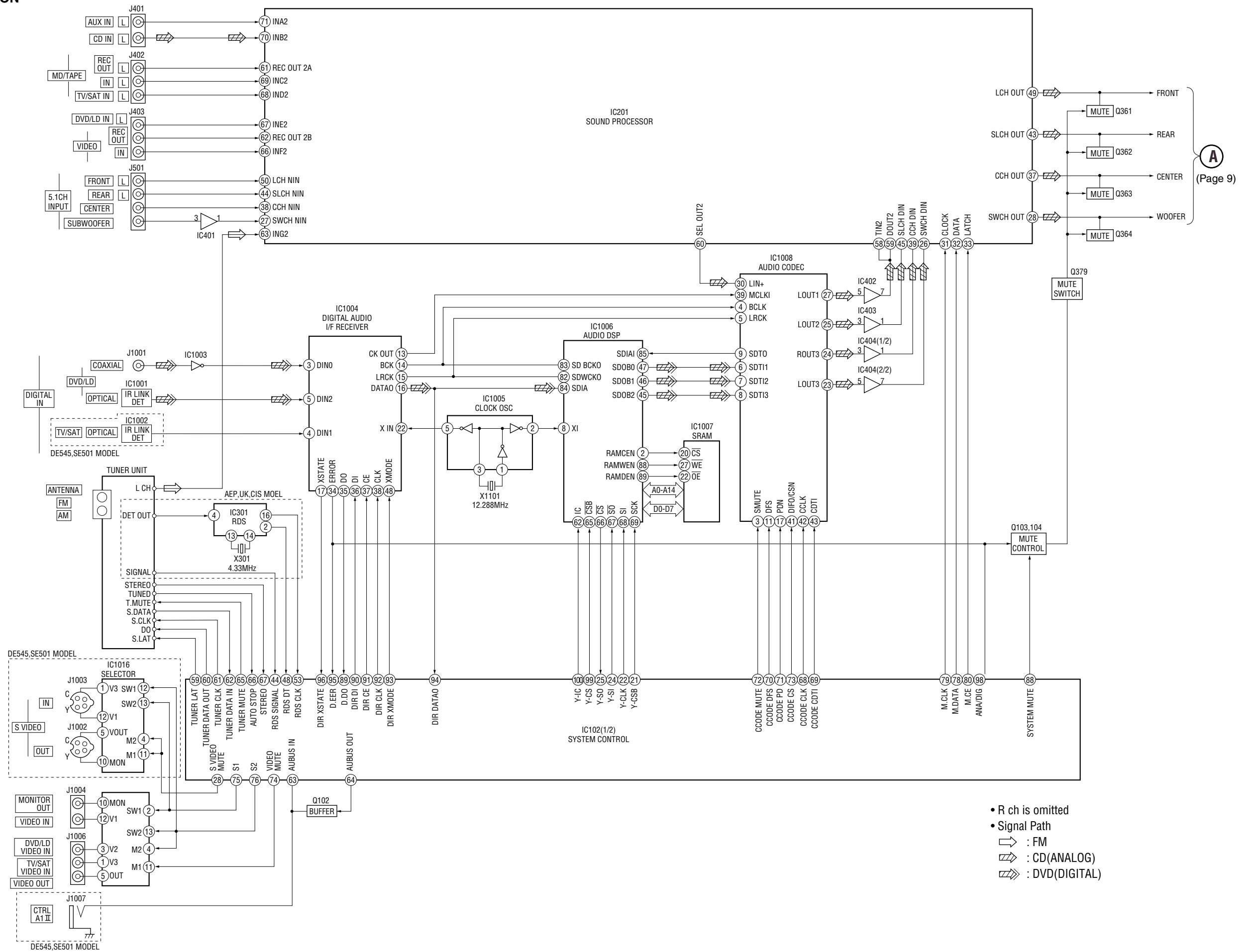
DISPLAY Board



MAIN Board

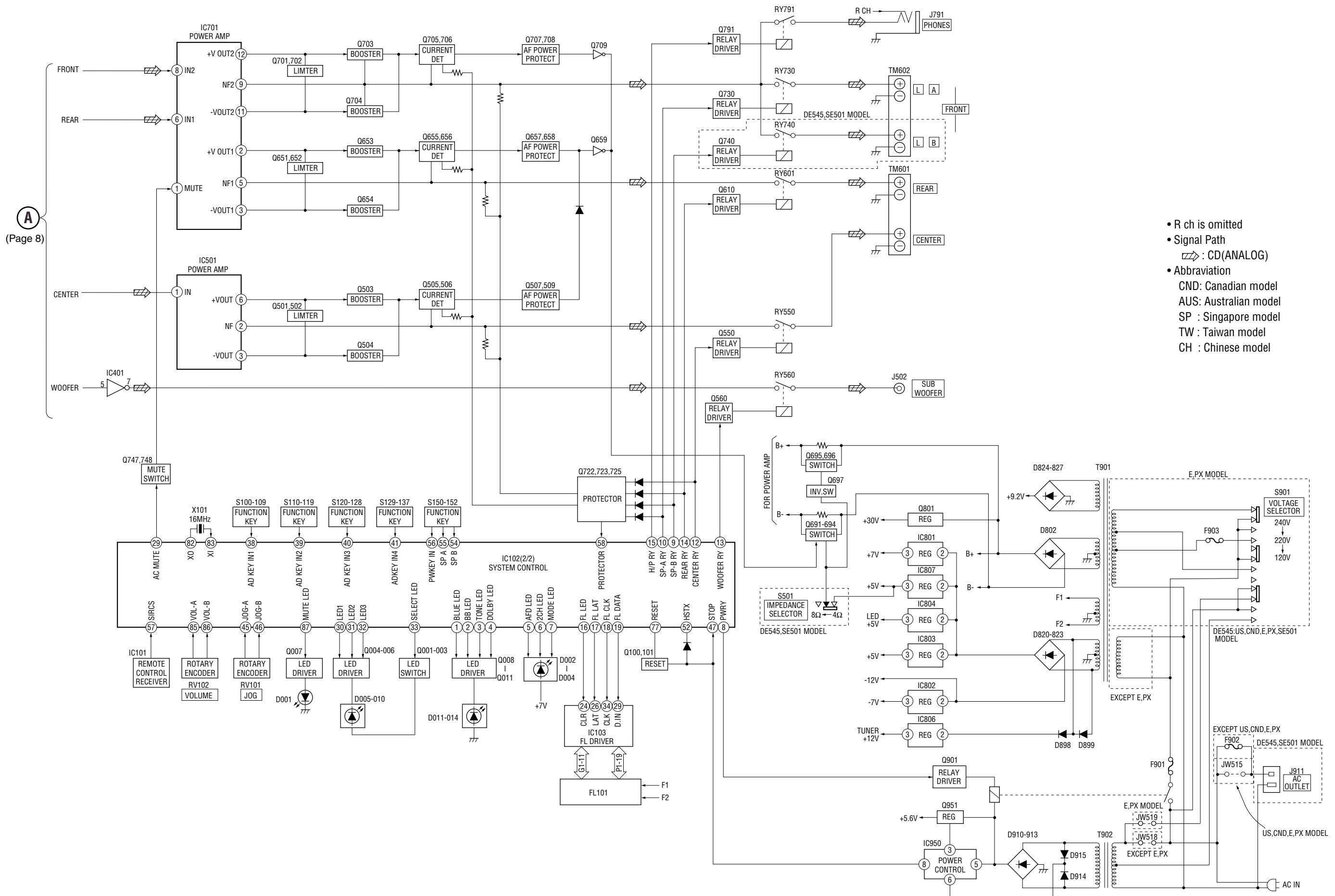


3-2. BLOCK DIAGRAMS  
— MAIN SECTION —

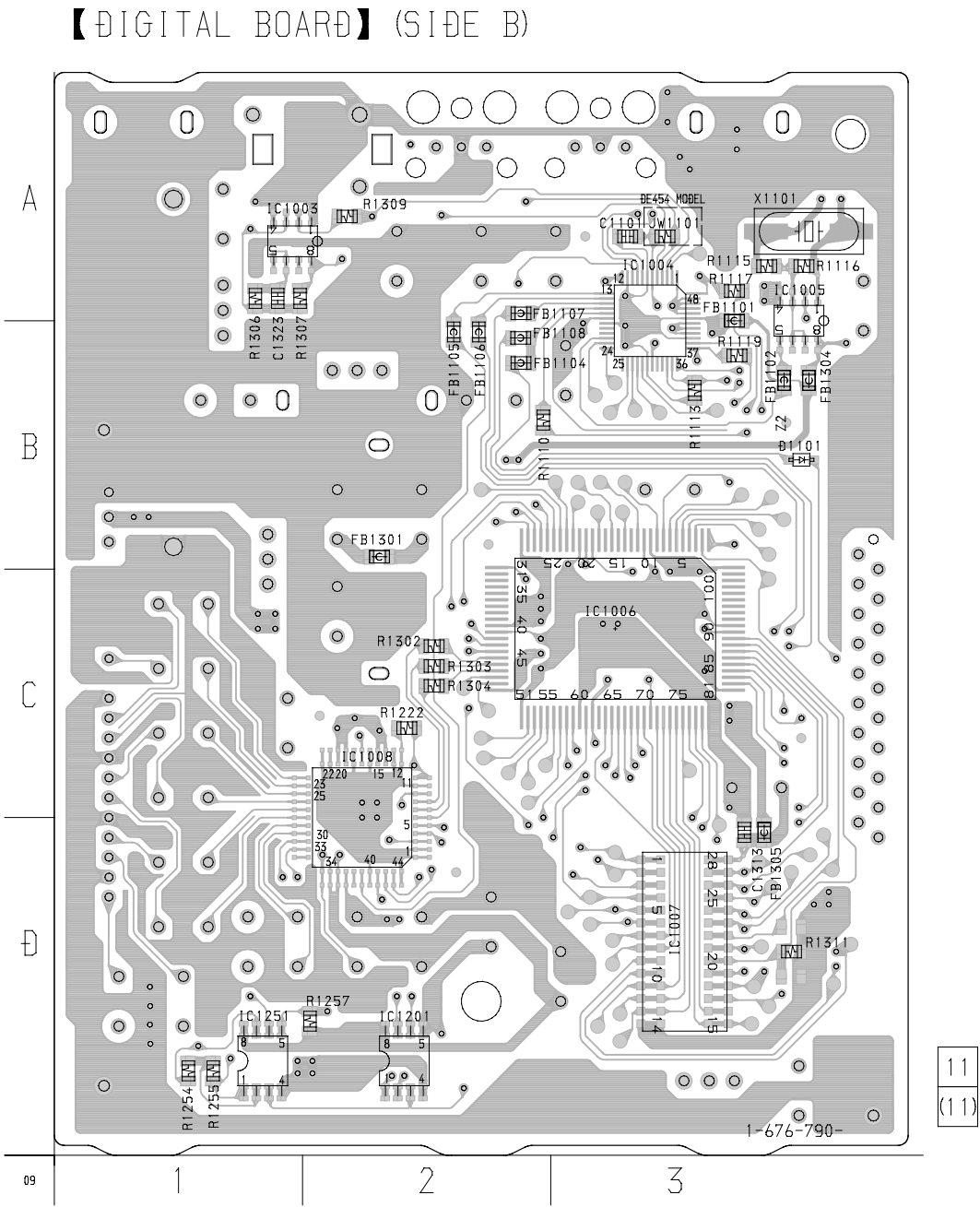
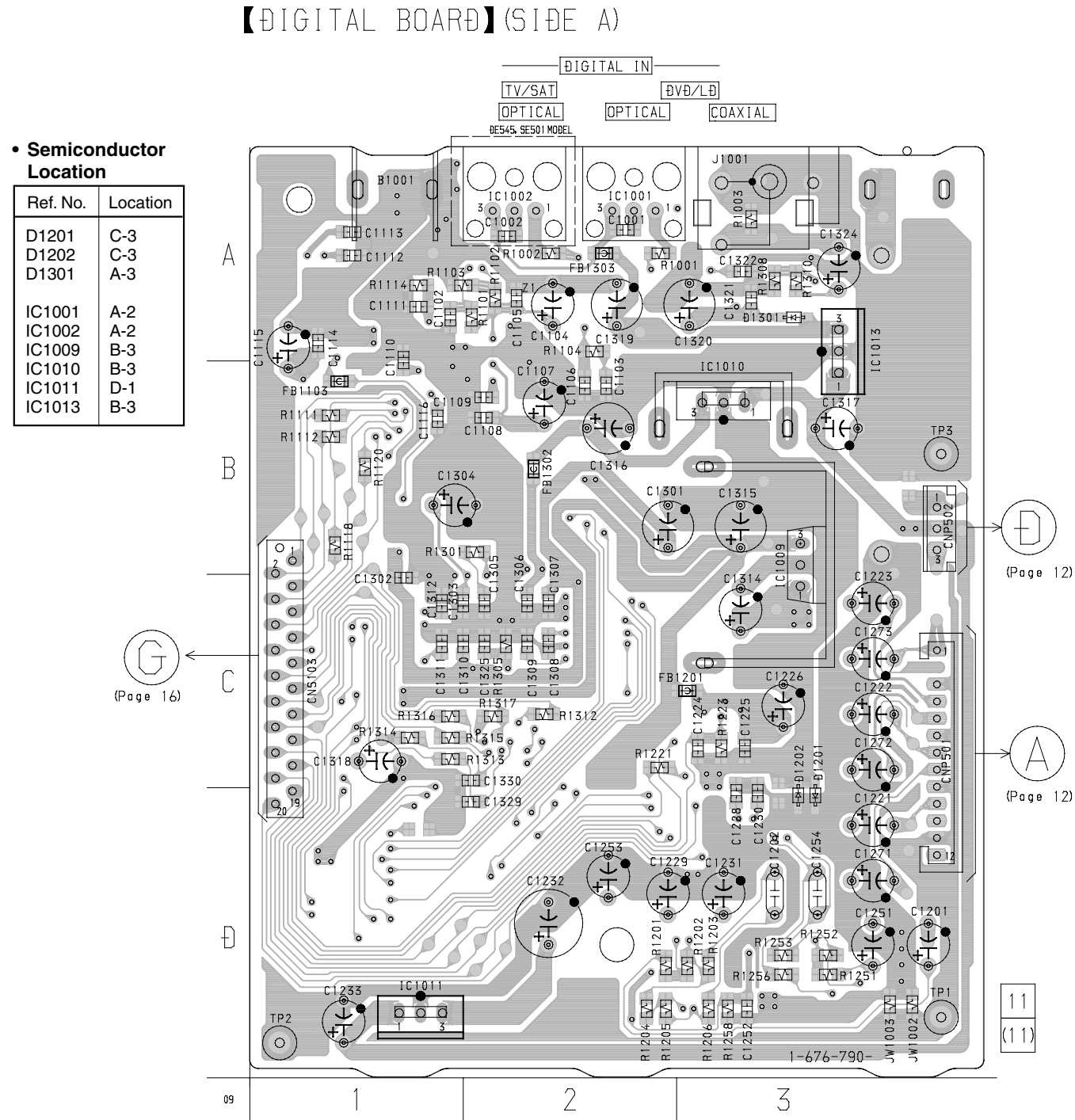




— POWER SECTION —

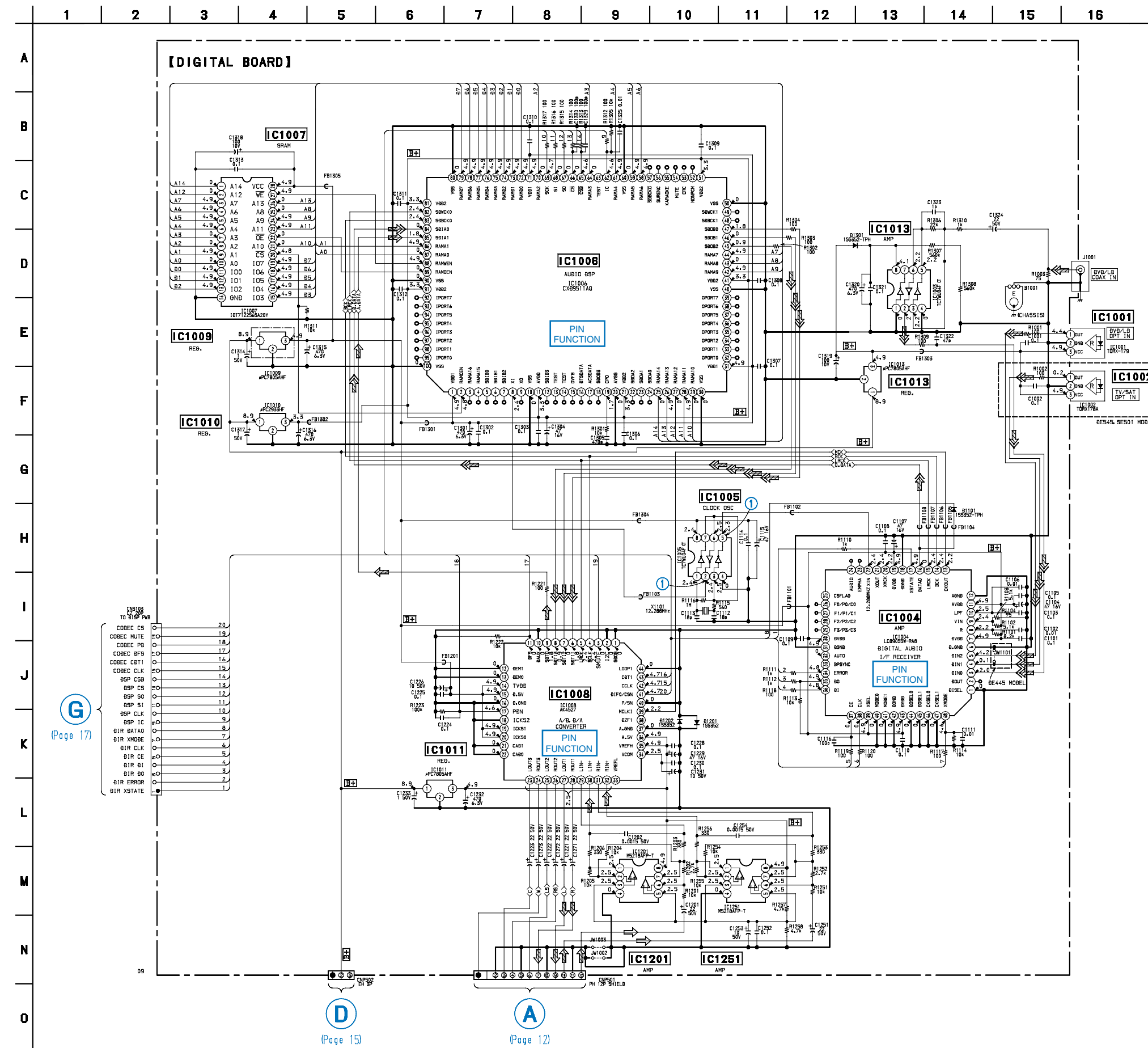


3-3. PRINTED WIRING BOARD — DIGITAL SECTION —  
• See page 7 for Circuit Boards Location.



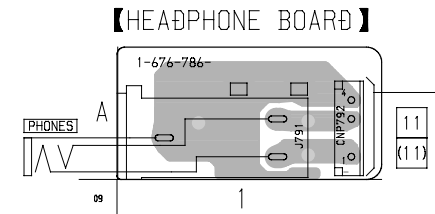
### 3-4. SCHEMATIC DIAGRAM — DIGITAL SECTION —

- See page 7 for Waveforms.
- See page 21 for IC Pin Functions.



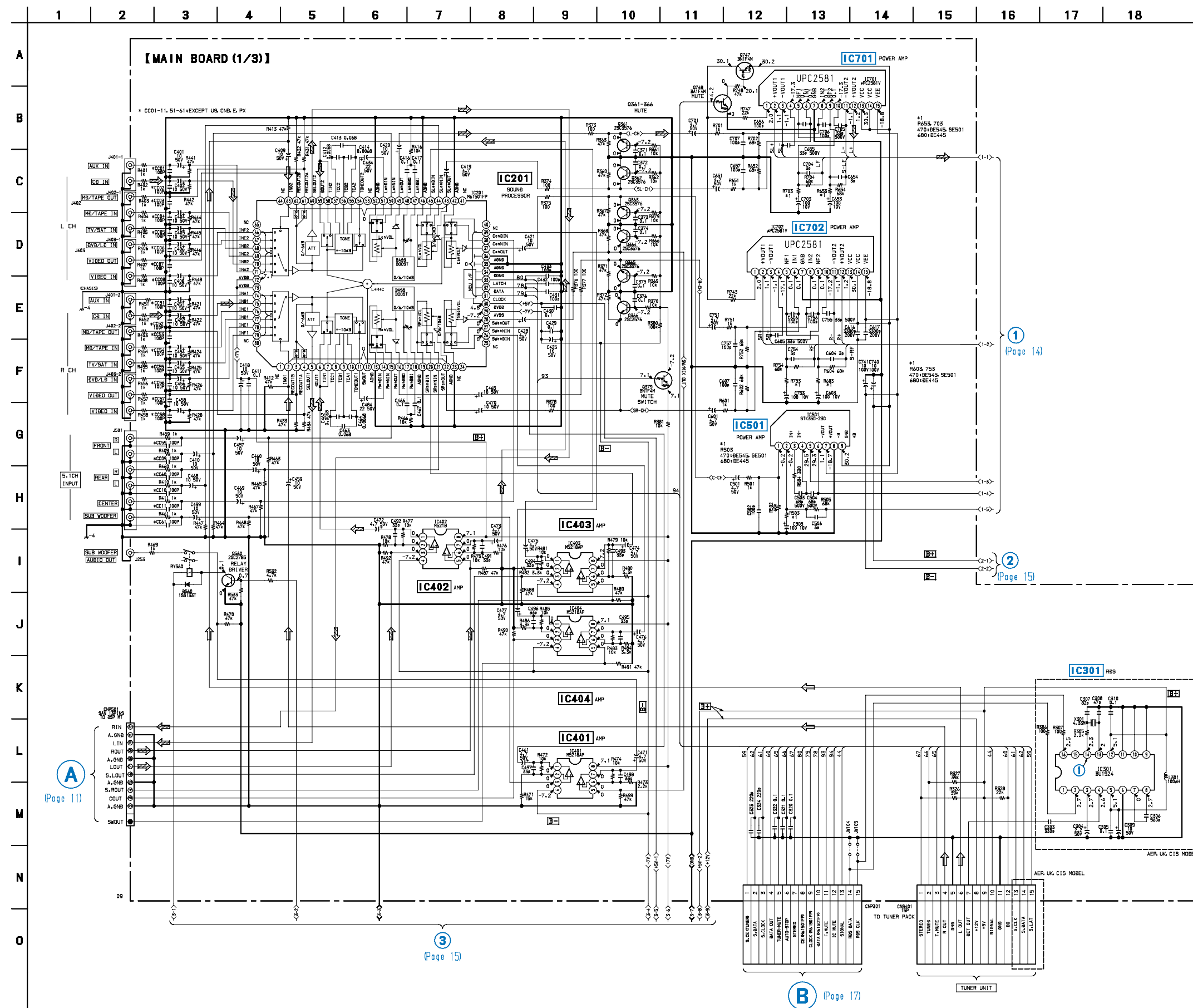


Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D505	E-4	D722	D-10	D820	D-12	IC402	D-2	Q364	D-5	Q603	F-10	Q693	D-9	Q725	D-11
D506	E-4	D725	E-9	D821	D-12	IC403	E-1	Q365	C-7	Q604	F-11	Q694	D-9	Q730	C-10
D508	E-3	D726	E-9	D822	D-12	IC404	D-1	Q366	C-8	Q605	E-11	Q695	D-8	Q740	C-10
D510	B-10	D727	E-5	D823	D-12	IC501	D-4	Q379	E-2	Q606	E-11	Q696	D-8	Q747	D-7
D560	B-8	D728	E-5	D824	D-12	IC701	D-6	Q501	E-3	Q610	C-9	Q697	D-8	Q748	C-7
D605	E-7	D731	C-10	D825	D-13	IC702	D-7	Q502	F-3	Q651	E-6	Q701	E-4	Q751	E-8
D606	E-8	D732	C-11	D826	D-13	IC801	C-8	Q503	F-3	Q652	F-7	Q702	F-5	Q752	E-9
D607	E-7	D734	D-10	D827	D-12	IC802	C-9	Q504	F-4	Q653	F-7	Q703	F-5	Q753	F-8
D610	B-9	D735	C-9	D833	C-7	IC803	C-9	Q505	E-4	Q654	F-8	Q704	F-6	Q754	F-9
D617	E-8	D736	C-10	D896	C-6	IC804	C-11	Q506	E-3	Q655	E-6	Q705	E-6	Q755	E-9
D627	E-11	D740	B-10	D898	E-11	IC806	C-9	Q507	E-4	Q656	F-8	Q706	E-5	Q756	E-10
D691	D-8	D757	E-9	D899	E-12	IC807	C-8	Q509	E-4	Q657	E-8	Q707	E-6	Q757	E-9
D692	D-9	D791	E-12					Q550	C-10	Q658	E-8	Q708	E-6	Q758	E-9
D706	E-6	D801	D-13	IC201	C-4	Q361	C-5	Q560	C-9	Q659	E-8	Q709	E-6	Q759	E-9
D710	B-10	D802	B-13	IC301	B-1	Q362	C-6	Q601	E-11	Q691	D-9	Q722	D-10	Q791	D-11
D721	D-10	D804	D-13	IC401	B-7	Q363	D-3	Q602	F-11	Q692	D-8	Q723	D-11	Q801	D-13



### 3-6. SCHEMATIC DIAGRAM — MAIN (1/3) SECTION —

- See page 7 for Waveforms.
- See page 28 for IC Block Diagrams.



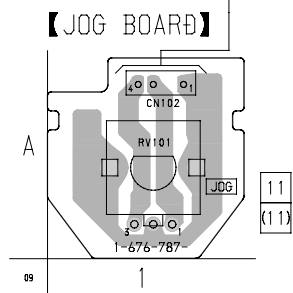








Ref. No.	Location	Ref. No.	Location
D002	D-8	IC101	B-3
D003	D-9	IC102	B-5
D004	D-9	IC103	B-8
D005	E-6		
D006	E-6	Q001	C-8
D007	C-6	Q002	D-8
D008	D-6	Q003	D-8
D009	D-4	Q004	D-4
D010	D-4	Q005	C-7
D011	A-7	Q006	D-7
D012	B-2	Q007	A-1
D013	B-2	Q008	A-10
D014	B-10	Q009	C-10
D100	B-7	Q010	C-2
D101	A-4	Q011	C-2
D102	D-1	Q100	D-1
D103	C-5	Q101	D-1
D104	A-3	Q102	A-3
D109	C-13	Q103	E-2
D110	C-12	Q104	E-2

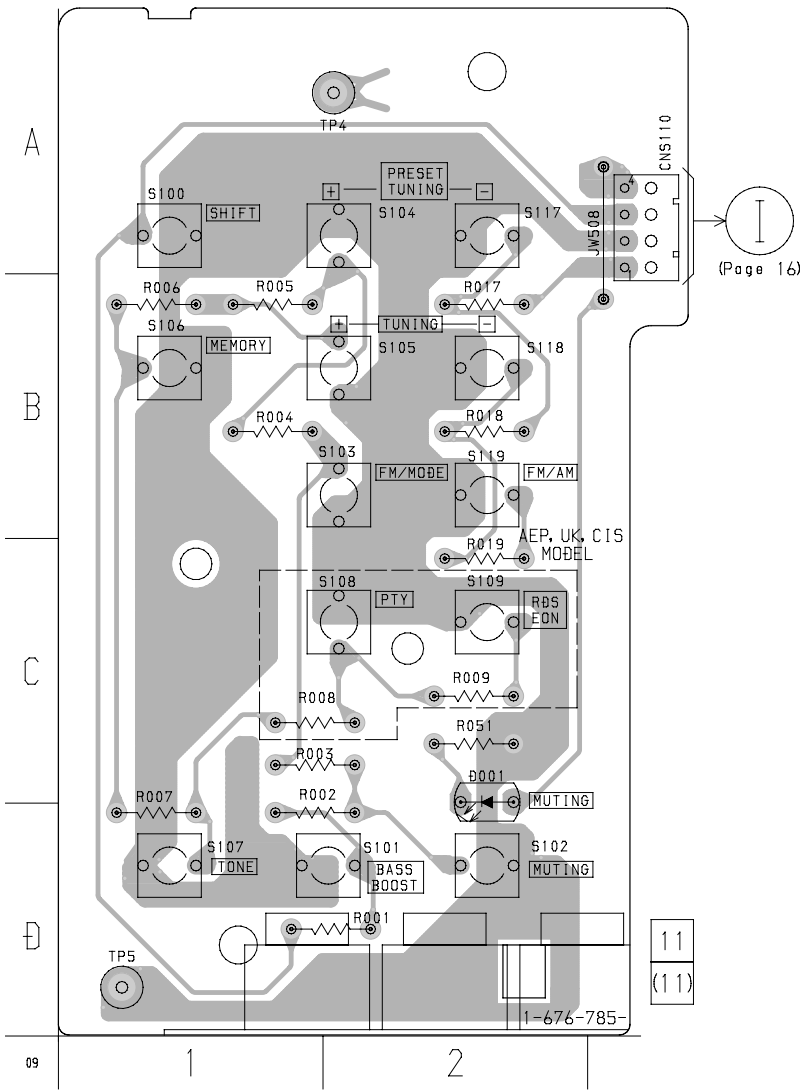




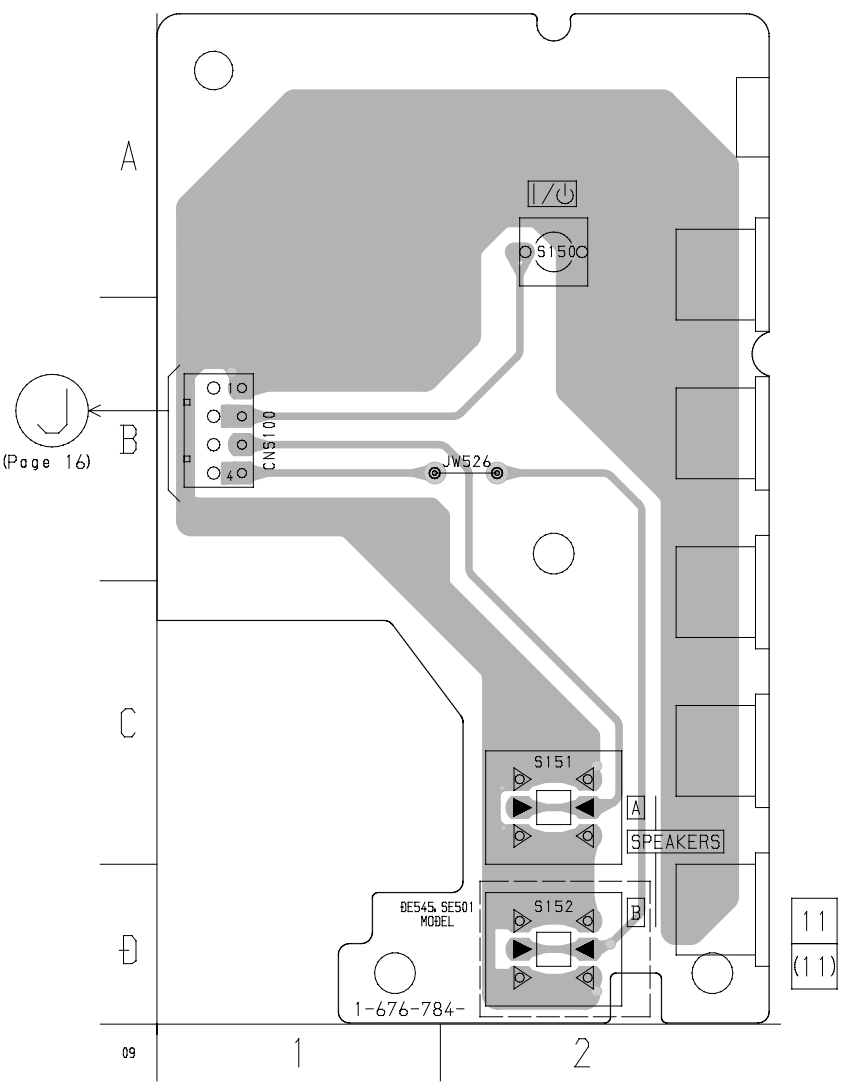


3-11. PRINTED WIRING BOARD — VIDEO/KEY SECTION —  
• See page 7 for Circuit Boards Location.

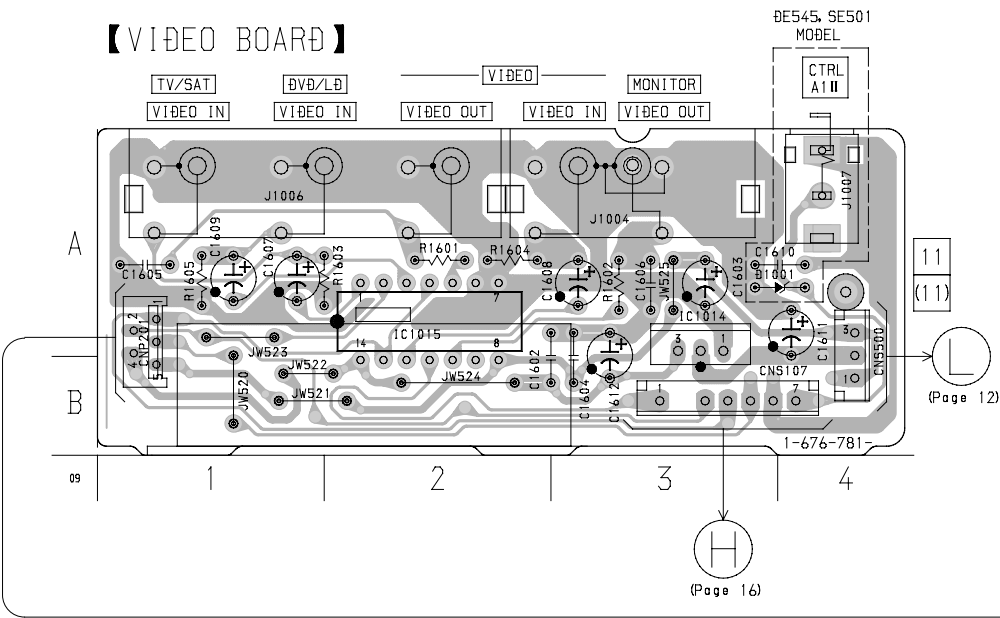
【TUNER SWITCH BOARD】



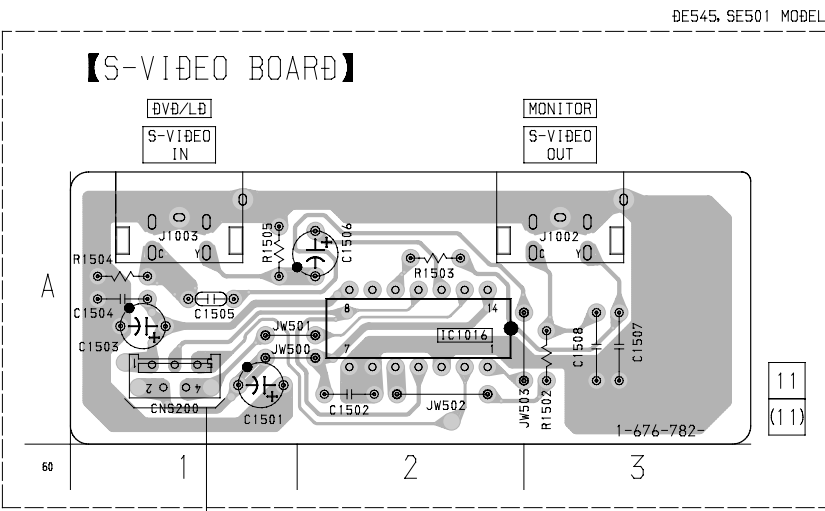
【POWER SWITCH BOARD】



【VIDEO BOARD】



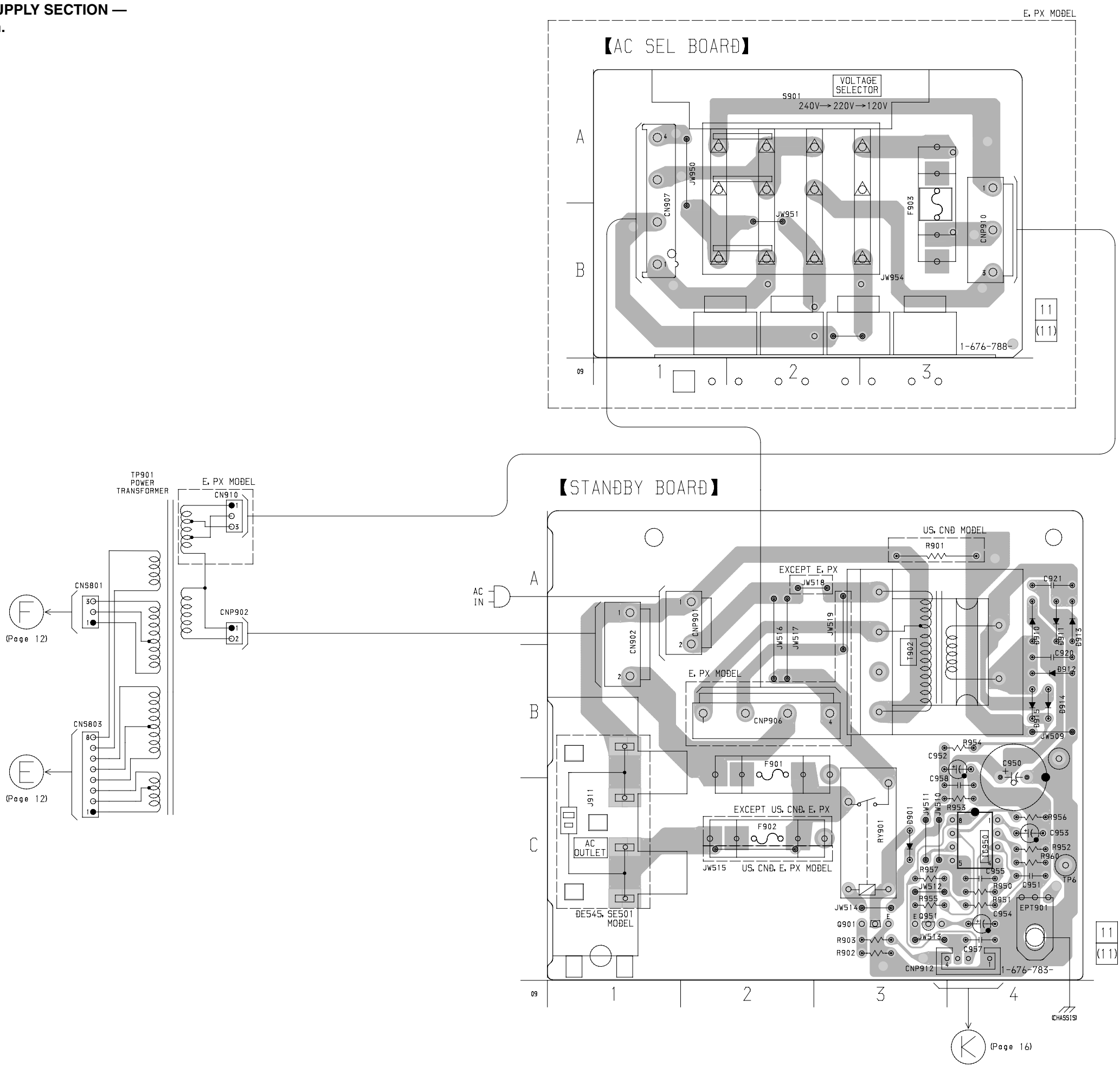
【S-VIDEO BOARD】





3-13. PRINTED WIRING BOARD — POWER SUPPLY SECTION —

- See page 7 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D901	C-3
D910	A-4
D911	A-4
D912	B-4
D913	A-4
D914	B-4
D915	B-4
IC950	C-4
Q901	C-3
Q951	C-3

### 3-14. IC PIN FUNCTIONS

#### • IC1004 LC89055W-RA8 DIGITAL AUDIO I/F RECEIVER (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Function
1	DISEL	I	Input data select. (connected to ground.)
2	DOUT	O	EIAJ data and parity flag output terminal (Not used)
3	DIN0	I	Amplifier integrate data input terminal
4	DIN1	O	Amplifier integrate data input terminal
5	DIN2	I	Amplifier integrate data input terminal
6	D. GND	—	Digital ground
7	D. VDD	O	Digital power supply
8	R	I	Input terminal for VCO generator band adjustment
9	V IN	I	Input terminal for VCO self running frequency set
10	LPF	O	External LPF for PLL is connected to this terminal
11	A. VDD	—	Analog power supply
12	A. GND	—	Analog ground
13	CK OUT	—	256fs or 128fs clock output terminal (Select CLKMD terminal)
14	BCK	O	Bit clock output terminal
15	LRCK	O	“L, R clock output terminal (L-ch: “H”, R-ch: “L”)”
16	DATA O	O	Audio data output terminal
17	XSTATE	O	Xtal status frag output.
18	D. GND	—	Digital ground
19	D. VDD	—	Digital power supply
20	XMCK	—	Not used.
21	XOUT	O	Crystal oscillator output terminal (Not used.)
22	XIN	I	Crystal oscillator input terminal
23	EMPHA	O	Emphasis monitor output terminal (“H” = ON) (Not used.)
24	AUDIO	—	Not used.
25	CSFLAG	O	C-bit change frag output. (Not used.)
26	F0/P0/C0	—	Not used.
27	F1/P1/C1	—	Not used.
28	F2/P2/C2	—	Not used.
29	F3/P3/C3	—	Not used.
30	D. VDD	—	Digital power supply
31	D. GND	—	Digital ground
32	AUTO	O	Non PCM data detect flag output. (Not used.)
33	BPSYNC	O	Non PCM sync detect flag output. (Not used.)
34	ERROR	O	Error mute output terminal
35	DO	O	Microprocessor I/F. When CCB/ $\overline{\text{SUB}}$ is “H”, data output terminal (high level open drain output)
36	DI	I	Microprocessor I/F. Data input terminal
37	CE	I	Microprocessor I/F. Chip enable/latch input terminal
38	CLK	I	Microprocessor I/F. Clock input terminal
39	XSEL	I	Xtal select. (Connected to +5V.)
40	MODE0	I	Mode 0 input. (Connected to ground.)
41	MODE1	I	Mode 1 input. (Connected to ground.)
42	D. GND	—	Digital ground
43	D. VDD	—	Digital power supply
44	DOSEL0	O	Output data select 0. (Connected to ground.)
45	DOSEL1	O	Output data select 1. (Connected to ground.)
46	CKSEL0	I	System clock select input 0. (Connected to ground.)
47	CKSEL1	I	System clock select input 1. (Connected to ground.)
48	XMODE	I	Reset input.

• IC1006 CXD9511AQ Audio DISP (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Function
1	VDD1	—	Power supply. (+5v.)
2	RAMCEN	O	External RAM chip select output.
3, 4	RAM16, 15	O	External RAM address data output. (Not used.)
5 – 7	SDIB0 – 2	I	PCM input to sub DSP. (Not used.)
8	XI	I	Xta'l 12.288MHz input.
9	XO	O	Not used.
10	VSS	—	Ground.
11	AVDD	—	Power supply. (+3.3v)
12	SDIB3	O	PCM input to sub DSP. (Not used.)
13, 14	TEST	—	Test terminal.(Not used.)
15	OVFB	O	Sub DSP over flow detect. (Not used.)
16	DTS DATA	O	DTS data detect. (Not used.)
17	AC3 DATA	O	AC-3 data detect. (Not used.)
18	SDOB3	O	PCM output from Sub DSP. Not used.
19	CPO	O	Output for PLL.Connected to external analog filter.
20	AVSS	—	Ground.
21	VDD2	—	Power supply. (+3.3v.)
22 – 24	SDOA2 – 0	O	PCM output from Main DSP. (Not used.)
25 – 29	RAMA14 – 10	O	External RAM address data output.
30	VSS	—	Ground.
31	VDD1	—	Power supply. (+5v.)
32 – 39	OPORT0 – 7	O	Not used.
40	VSS	—	Ground.
41	VDD2	—	Power supply. (+3.3v)
42 – 44	RAMA9 – 7	O	External RAM address data output.
45 – 47	SDOB2-0	O	PCM output from Sub DSP.
48	SDBCK1	I	Bit clock input for SDOA, SDIB, SDOB. (Not used.)
49	SDWCK1	I	Word clock input for SDOA, SDIB, SDOB. (Not used.)
50	VSS	—	Ground.
51	VDD2	—	Power supply. (+3.3v.)
52	NONPCM	O	Non-PCM data detect. (Not used.)
53	CRC	O	AC-3 CRC error detect.(Not used.)
54	MUTE	O	Auto mute detect.(Not used.)
55	KARAOKE	O	AC-3 karaoke data detect. (Not used.)
56	SURENC	O	AC-3 2/0 mode dolby surround encode input detect. (Not used.)
57	SDBCKO	O	SDBCK0 inverter clock output. (Not used.)
58, 59	RAMA6, 5	O	External SRAM address data output.
60	VSS	—	Ground.
61	RAMA4	O	External SRAM address data output.
62	IC	I	Initial clear.
63	TEST	—	Test terminal. (Not used.)
64	RAMA3	O	External SRAM address data output.
65	CSB	I	Chip select input for Sub DSP.
66	CSB	I	Microcomputer interface chip select input.
67	SO	O	Microcomputer interface data output.
68	SI	I	Microcomputer interface data input.
69	SCK	I	Microcomputer interface clock input.
70	RAMA2	O	External SRAM address data output.

Pin No.	Pin Name	I/O	Function
71	VDD1	—	Power supply. (+5v.)
72 – 79	RAMD0 – 7	I/O	External SRAM data input/output.
80	VSS	—	Ground.
81	VDD2	—	Power supply. (+3.3v.)
82	SDWCKO	I	Bit clock input for SDOA, SDIB, SDOB.
83	SDBCKO	I	Word clock input for SDOA, SDIB, SDOB.
84	SDIA0	I	AC-3/DTS bitstream or PCM data input to Main DSP.
85	SDIA1	O	AC-3/DTS bitstream or PCM data input to Main DSP.
86	RAMA1	O	External SRAM address data output.
87	RAMA0	O	External SRAM address data output.
88	RAMWEN	O	Write enable for external SRAM.
89	RANOEN	O	Output enable for external SRAM.
90	VSS	—	Ground.
91	VDD2	—	Power supply. (+3.3v.)
92 – 99	IPORT7 – 0	I	Not used.
100	VSS	—	Ground.

• IC1008 AK4527 A/D, D/A CONVERTER (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Function
1	SDOS	I	SDTO source select pin “L”: internal ADC output, “H”: DAUX input ORed with serial control register if P/ $\bar{S}$ = “L” (Connected to ground)
2	I2C	I	Serial control mode select pin
3	S MUTE	I	Soft mute pin “H”: Soft mute ON, “L”: OFF
4	BCLK	I/O	Audio serial data clock pin
5	LRCK	I/O	Input/output channel clock pin
6	SDT11	I	DAC1 audio serial data input pin
7	SDT12	I	DAC2 audio serial data input pin
8	SDT13	I	DAC3 audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	AUX audio serial data input pin (Connected to ground)
11	DFS	I	Double speed sampling mode pin “L”: normal speed, “H”: double speed ORed with serial control register if P/ $\bar{S}$ = “L”
12 – 13	DEM1 – DEM0	I	De-emphasis pin ORed with serial control register if P/ $\bar{S}$ = “L” (Connected to ground)
14	TVDD	—	Connected to digital power supply.
15	D. 5V	—	Digital power supply pin
16	D. GND	—	Digital ground pin
17	PDN	I	Power-down & reset pin When “L”, the AK4527 is powered-down and the control registers are reset to default state. If the state of CAD0-1 changes, then the AK4527 must be reset by PDN.
18	ICKS2	I	Input clock select 2 pin. (Connected to ground)
19	ICKS1	I	Input clock select 1 pin. (Connected to digital power supply)
20	ICKS0	I	Input clock select 0 pin. (Connected to digital power supply)
21	CAD1	I	Chip address pin Used during the serial control mode. (Connected to ground)
22	CAD0	I	Chip address pin Used during the serial control mode. (Connected to ground)
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #1 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN–	I	Lch analog negative input pin
30	LIN+	I	Lch analog positive input pin



Pin No.	Pin Name	I/O	Function
31	RIN-	I	Rch analog negative input pin
32	RIN+	I	Rch analog positive input pin
33	DZF2	O	Zero input detect 2. (Not used.)
34	VCOM	O	Common voltage output pin, AVDD/2 Large external capacitor is used to reduce power-supply noise
35	VREFH	I	“Positive voltage reference input pin, AVDD”
36	A. 5V	—	Analog power supply pin
37	A. GND	—	Analog ground pin
38	DZF1	O	Zero input detect 1. (Not used.)
39	MCLK	I	Master clock input pin
40	P/S	I	Parallel/serial select pin “L”: serial control mode, “H”: parallel control mode (Connected to ground)
41	DIF $\phi$ /CSN	I	Audio data interface format. (At parallel control mode.) Chip select pin in serial mode
42	CCLK	I	Control data clock pin in serial mode
43	CDTI	I	Control data input in serial mode
44	LOOP1	I	Loop back model

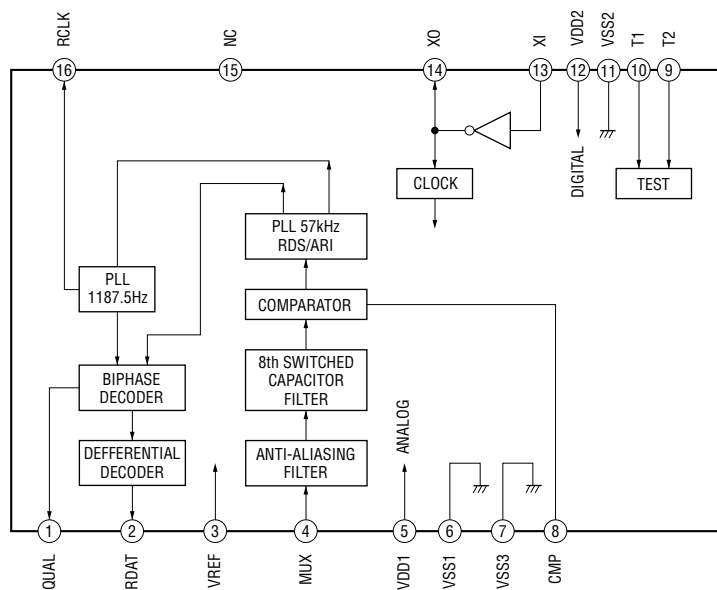
• IC102 MB90553ABPF-G-158-BND System control (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Function
1	BLUE LED	O	MULTI CHANNEL DECODING display data output to LED.
2	BB LED	O	BASS BOOST display data output to LED.
3	TONE LED	O	TONE display data output to LED.
4	DOLBY LED	O	DOLBY DIGITAL display data output to LED.
5	AFD LED	O	A.F.D display data output to LED.
6	2CH LED	O	2CH display data output to LED.
7	MODE LED	O	MODE display data output to LED.
8	PW RY	O	Power relay.
9	SP B RY	O	Speaker B relay.
10	SP A RY	O	Speaker A relay.
11	VSS	—	Ground.
12	CENTER RY	O	Center Speaker relay.
13	WOOFER RY	O	Sub Woofer relay.
14	REAR RY	O	Rear Speaker relay.
15	H/P RY	O	Phones relay.
16	FL CLR	O	Clear output to flourescent display tube.
17	FL LAT	O	Latch output to flourescent display tube.
18	FL CLK	O	Clock output to flourescent display tube.
19	FL DATA/FLASH	O	Data output to flourescent display tube./FLASH data output.
20	FLASH2	I	FLASH data input.
21	YSS912 CLK	O	Clock output to Audio DSP IC.
22	YSS912 SI	O	Serial data output to Audio DSP IC.
23	VCC	—	Power supply.
24	YSS912 SO	I	Serial data input to Audio DSP IC.
25	YSS912 CS	O	Chip select output to Audio DSP IC.
26	SECTION NAME	I	Section name signal input.
27	C	—	External power regulator capacitor 0.1 is connected to this terminal.
28	SVIDEO MUTE	O	S-video mute output.
29	AC MUTE	O	AC mute output.
30 – 32	LED1 – 3	O	LED data output.
33	SELECT LED	O	LED select data output.
34	AVCC	—	Analog power supply.
35	AVRH	—	Connected to power supply.
36	AVRL	—	Connected to ground.
37	AVSS	—	Ground.
38 – 41	AD KEY IN1 – 4	I	Key input.
42	VSS	—	Power supply.
43	VERSION	I	Version signal input.
44	RDS SIGNAL	I	RDS signal input.
45	JOG A (UP)	I	Function encoder up input.
46	JOG B (DWN)	I	Function encoder down input.
47	STOP	I	Stop input.
48	RDS DT	I	RDS data input.
49	MD0	I	Selection of microporcessor operation mode.
50	MD1	I	Selection of microporcessor operation mode. (Connected to power supply.)
51	MD2	I	Selection of microporcessor operation mode.
52	HSTX	I	Hardware standby signal input.
53	RDS CLK	I	RDS clock input.
54	SP B	I	Speaker B signal input.

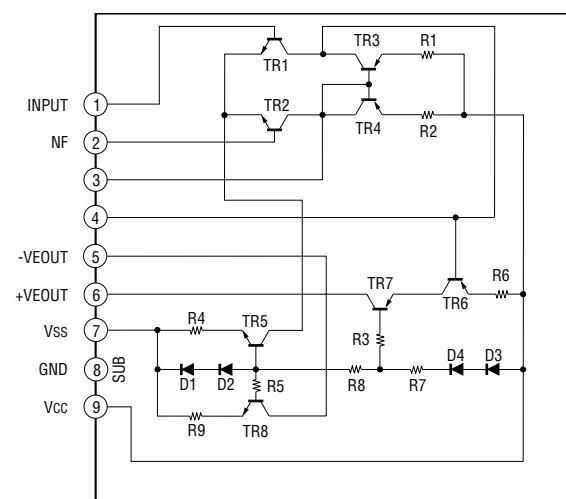
Pin No.	Pin Name	I/O	Function
55	SP A	I	Speaker A signal input.
56	PW KEY IN	I	Power key input.
57	SIRCS	I	Sircs signal input.
58	PROTECTOR	I	Protect signal input.
59	TUNER LAT	O	Tuner latch output.
60	TUNER DATA OUT	O	Tuner data output.
61	TUNER CLK	O	Tuner clock output.
62	TUNER DATA IN	I	Tuner data input.
63	AUBUS IN	I	Audio data bus input.
64	AUBUS OUT	O	Audio data bus output.
65	TUNER MUTE	O	Tuner mute output.
66	AUTO STOP	I	Auto stop signal input.
67	STEREO	I	Stereo signal input.
68	CODEC CLK	O	CODEC clock output.
69	CODEC DFS	O	CODEC double speed sampling output.
70	CODEC CDT1	O	CODEC control data output.
71	CODEC PD	O	CODEC power down output.
72	CODEC MUTE	O	CODEC mute output.
73	CODEC CS	O	CODEC chip select output.
74	VIDEO MUTE	O	Video mute output.
75	S1	O	Video select switch1 output.
76	S2	O	Video select switch2 output.
77	RESET	I	Reset input.
78	M61501 DATA	O	Data output to sound processor.
79	M. CLK	O	Clock output to sound processor.
80	M. CE	O	Chip enable output to sound processor.
81	VSS	—	Ground.
82	XO	O	External ceramic filter 16MHz is connected to this terminal.
83	XI	I	External ceramic filter 16MHz is connected to this terminal.
84	VCC	—	Power supply.
85	VOL-A (UP)	I	Volume up signal input.
86	VOL-B (DOWN)	I	Volume down signal input.
87	MUTE LED	O	Muting display data output to LED.
88	SYSTEM MUTE	O	System mute output.
89	D.DO	I	Data input to digital audio I/F receiver.
90	DIR DI	O	Data output to digital audio I/F receiver.
91	DIR CE	O	Chip enable output to digital audio I/F receiver.
92	DIR CLK	O	Clock output to digital audio I/F receiver.
93	DIR XMODE	O	Reset signal output to digital audio I/F receiver.
94	DIR DATAO	I	Audio data input to digital audio I/F receiver.
95	D.ERR	I	Error mute signal input to digital audio I/F receiver.
96	DIR XSTATE	I	Xtal status frag signal input to digital audio I/F receiver.
97	DTS	I	Digital theater system signal input.
98	ANG/DIG	O	Analog/digital select signal output.
99	Y CS	O	Chip select output to Audio DSP IC.
100	Y IC	O	Reset signal output to Audio DSP IC.

### 3-15. IC BLOCK DIAGRAMS

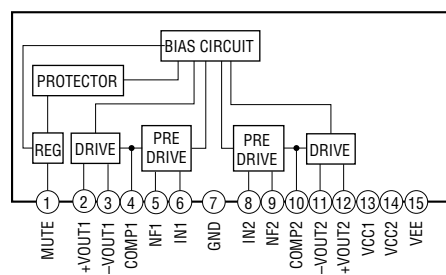
#### IC301 BU1924F-E2 (MAIN BOARD)



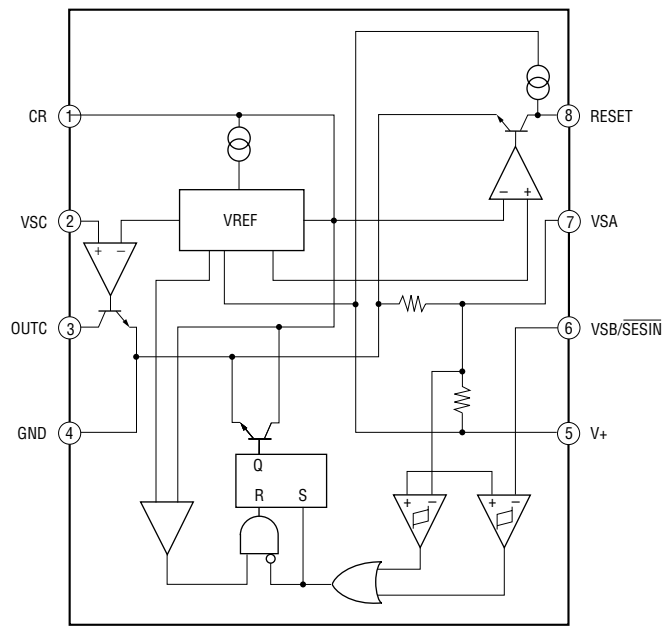
#### IC501 STK350-230 (MAIN BOARD)



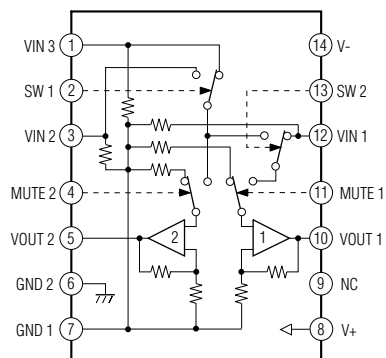
#### IC701, 702 $\mu$ PC2581V (MAIN BOARD)



### IC950 NJM2103D (STBY BOARD)



IC1015 NJM2279D (VIDEO BOARD)  
IC1016 NJM2279D (S VIDEO BOARD)



## SECTION 4 EXPLODED VIEWS

### NOTE:

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

Parts of Color    Cabinet's Color

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

以阴影和△标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

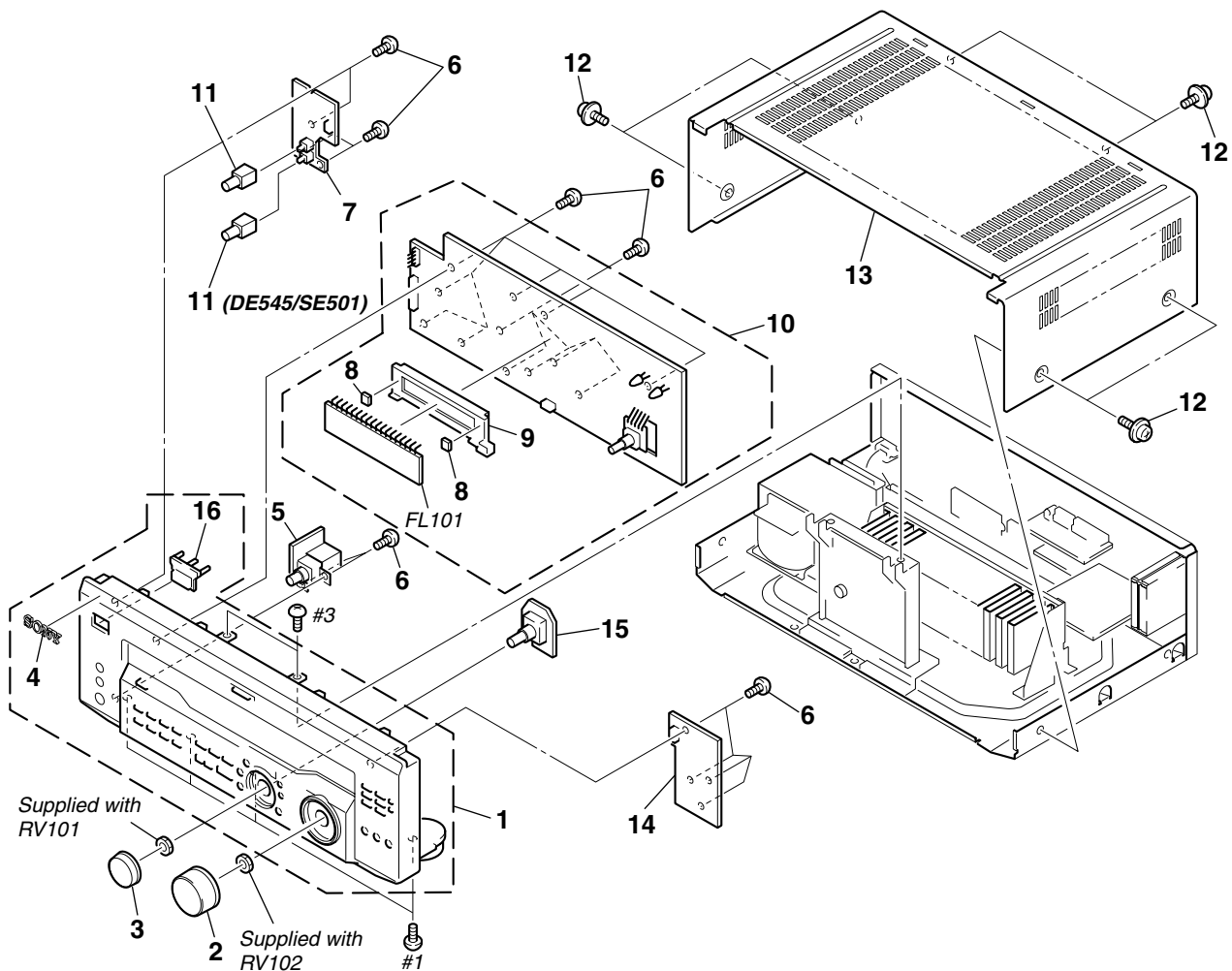
### Abbreviation

CND : Canadian	MY : Malaysia
AUS : Australian	SP : Singapore
CH : Chinese	TW : Taiwan

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

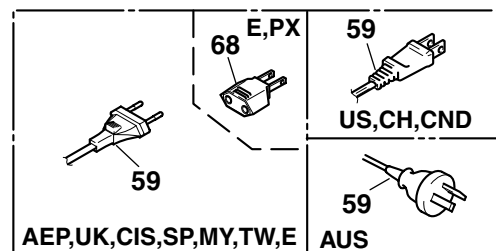
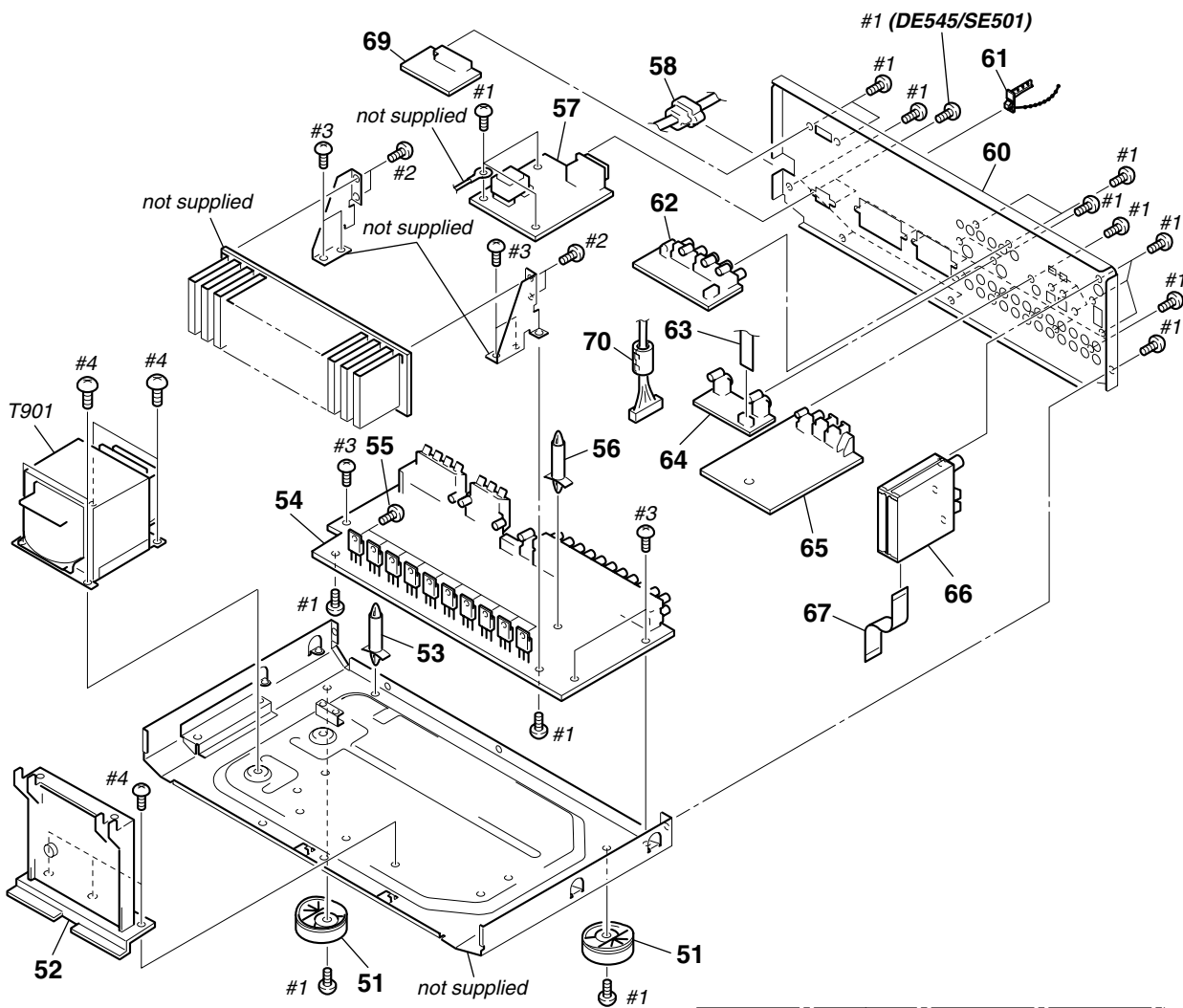
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4952-628-1	FRONT PANEL ASSY(DE545:US,CND)		10	A-4428-464-A	DISPLAY BOARD, COMPLETE(DE445:CND)	
1	X-4952-629-1	FRONT PANEL ASSY(DE445:US,CND)		10	A-4428-466-A	DISPLAY BOARD, COMPLETE	
1	X-4952-679-1	FRONT PANEL ASSY(DE545:AUS)				(DE445:AEP,UK,CIS)	
1	X-4952-680-1	FRONT PANEL ASSY(DE545:AEP,UK,CIS)		10	A-4428-468-A	DISPLAY BOARD, COMPLETE(DE545:CND)	
1	X-4952-681-1	FRONT PANEL ASSY(DE545:CH,TW,SP,MY)		10	A-4428-471-A	DISPLAY BOARD, COMPLETE	
						(DE545:AEP,UK,CIS)	
1	X-4952-682-1	FRONT PANEL ASSY(BLACK)(DE445:AEP,UK,CIS)		10	A-4428-479-A	DISPLAY BOARD, COMPLETE(DE545:TW,E,PX)	
1	X-4952-683-1	FRONT PANEL ASSY(SE501)					
1	X-4952-831-1	FRONT PANEL ASSY(SILVER)		10	A-4428-482-A	DISPLAY BOARD, COMPLETE(DE545:CH,SP,MY)	
		(DE445:AEP,UK,CIS)		10	A-4428-492-A	DISPLAY BOARD, COMPLETE(DE545:AUS)	
1	X-4952-938-1	FRONT PANEL ASSY(DE545:E,PX)		11	4-226-445-11	BUTTON (S)(BLACK)(US,CND,AEP,UK,CIS)	
2	4-226-453-11	KNOB(VOL-E3) (BLACK)		11	4-226-445-21	BUTTON (S)(DE545:CH,TW,SP,MY)	
		(CH,US,CND,AEP,UK,CIS,AUS)		11	4-226-445-41	BUTTON (S)(SILVER)	
						(DE445:AEP,UK,CIS/DE545:E,PX,AUS)	
2	4-226-453-21	KNOB(VOL-E3)(DE545:TW,SP,MY)		12	4-210-291-01	SCREW (CASE 3 TP2)(BLACK)	
2	4-226-453-41	KNOB(VOL-E3)(SILVER)				(US,CND,AEP,UK,CIS)	
		(DE445:AEP,UK,CIS/DE545:E,PX,AUS)		12	4-210-291-11	SCREW (CASE 3 TP2)(SILVER)	
3	4-226-799-01	KNOB(JOG)(BLACK)(US,CND,AEP,UK,CIS)				(DE445:AEP,UK,CIS/DE545:CH,TW,SP,MY,E,PX,AUS)	
3	4-226-799-11	KNOB(JOG)(SILVER)		13	4-226-945-01	CASE(E5)(BLACK)(US,CND,AEP,UK,CIS)	
		(DE445:AEP,UK,CIS/DE545:CH,TW,SP,MY,E,PX,AUS)		13	4-226-945-21	CASE(E5)(CH,TW,SP,MY)	
4	4-996-698-01	EMBLEM, SONY(EXCEPT CH,TW,SP,MY)		13	4-226-945-41	CASE(E5)(SILVER)	
						(DE445:AEP,UK,CIS/DE545:E,PX,AUS)	
4	4-996-698-11	EMBLEM, SONY(CH,TW,SP,MY)		14	1-676-785-11	TUNER SWITCH BOARD	
5	1-676-786-11	HEADPHONE BOARD		15	1-676-787-11	JOG BOARD	
6	4-951-620-01	SCREW(2.6X8), +BVTP		16	4-996-683-21	BUTTON (POWER)(BLACK)(US,CND,AEP,UK,CIS)	
7	1-676-784-11	POWER SWITCH BOARD		16	4-996-683-51	BUTTON (POWER)(CH,TW,SP,MY)	
* 8	4-921-941-01	CUSHION (FL)		16	4-996-683-71	BUTTON (POWER)(SILVER)	
						(DE445:AEP,UK,CIS/DE545:E,PX,AUS)	
* 9	3-386-245-12	HOLDER (FL)		FL101	1-517-929-11	TUBE, FLUORESCENT INDICATOR	
10	A-4428-428-A	DISPLAY BOARD, COMPLETE(DE445:US)					
10	A-4428-438-A	DISPLAY BOARD, COMPLETE(DE545:US)					
10	A-4428-458-A	DISPLAY BOARD, COMPLETE(SE501)					

## 4-2. CHASSIS SECTION





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4947-124-1	FOOT ASSY (F50150S)(SILVER) (DE445:AEP,UK,CIS/DE545:E,PX,AUS)		60	4-226-802-41	BACK PANEL (E5)(DE545:SP,MY)	
51	X-4947-208-1	FOOT ASSY (F50150S)(BLACK) (DE445:US,CND,AEP,UK/DE545:CH,US,CND,AEP,UK,CIS,SE501)		60	4-226-802-51	BACK PANEL (E5)(DE545:CH)	
51	X-4947-389-1	FOOT ASSY (F50150S)(BLACK)(DE445:CIS)		60	4-226-802-61	BACK PANEL (E5)(DE545:AEP,UK,CIS)	
51	X-4947-547-1	FOOT ASSY (F50150S)(DE545:TW,SP,MY)		60	4-226-802-71	BACK PANEL (E5)(DE545:TW)	
52	4-226-801-01	SUB MOLD (E5)		60	4-226-808-01	BACK PANEL (E4)(DE445:US)	
* 53	4-954-051-51	HOLDER, PC BOARD(DE445)		60	4-226-808-11	BACK PANEL (E4)(DE445:CND)	
54	A-4428-423-A	MAIN BOARD, COMPLETE(DE445:US)		60	4-226-808-21	BACK PANEL (E4)(DE445:AEP,UK)	
54	A-4428-429-A	MAIN BOARD, COMPLETE(DE545:US,SE501)		60	4-226-808-31	BACK PANEL (E4)(DE445:CIS)	
54	A-4428-463-A	MAIN BOARD, COMPLETE(DE445:CND)		60	4-227-063-01	BACK PANEL (S5)(SE501)	
54	A-4428-465-A	MAIN BOARD, COMPLETE(DE445:AEP,UK,CIS)		61	4-956-370-12	BAND, PLUG FIXED(DE545:TW,AUS)	
54	A-4428-467-A	MAIN BOARD, COMPLETE(DE545:CND,E,PX)		62	1-676-781-11	VIDEO BOARD	
54	A-4428-469-A	MAIN BOARD, COMPLETE(DE545:AEP,UK,CIS)		63	1-769-840-11	WIRE(FLAT TYPE) (5 CORE)(DE545,SE501)	
54	A-4428-490-A	MAIN BOARD, COMPLETE (DE545:CH,TW,SP,MY,AUS)		64	1-676-782-11	S-VIDEO BOARD(DE545,SE501)	
55	3-905-609-01	SCREW (TRANSISTOR)		65	A-4424-456-A	DIGITAL BOARD, COMPLETE(DE445)	
* 56	4-924-098-91	HOLDER, PC BOARD		65	A-4424-459-A	DIGITAL BOARD, COMPLETE(DE545,SE501)	
57	A-4428-435-A	STBY BOARD, COMPLETE(US,CND)		66	1-693-407-41	TUNER(TW,US,CND,E)	
57	A-4428-478-A	STBY BOARD, COMPLETE(E,PX)		66	1-693-408-41	TUNER(CH,AEP,UK,CIS,SP,MY,AUS)	
57	A-4428-481-A	STBY BOARD, COMPLETE(AEP,UK,CIS,SP,MY)		67	1-773-001-11	WIRE(FLAT TYPE) (15 CORE)	
57	A-4428-491-A	STBY BOARD, COMPLETE(AUS)		△ 68	1-569-008-21	ADAPTOR, CONVERSION 2P(E,PX)	
57	A-4428-497-A	STBY BOARD, COMPLETE(CH)		69	1-676-788-11	AC SEL BOARD(E,PX)	
57	A-4473-334-A	STBY BOARD, COMPLETE(TW)		70	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
* 58	3-703-244-00	BUSHING (2104), CORD		△ T901	1-435-306-11	TRANSFORMER, POWER(DE545:US)	
△ 59	1-696-847-11	CORD, POWER(AUS)		△ T901	1-435-306-21	TRANSFORMER, POWER(SE501)	
△ 59	1-777-070-21	CORD, POWER(CND)		△ T901	1-435-307-11	TRANSFORMER, POWER(DE545:CND)	
△ 59	1-777-071-21	CORD, POWER(AEP,UK,CIS,SP,MY,TW,E,PX)		△ T901	1-435-308-11	TRANSFORMER, POWER(DE545:AUS)	
△ 59	1-783-205-11	CORD, POWER(CH)		△ T901	1-435-309-11	TRANSFORMER, POWER (DE545:CH,AEP,UK,CIS,SP,MY)	
△ 59	1-783-820-11	CORD, POWER(US)		△ T901	1-435-310-11	TRANSFORMER, POWER(DE545:E,PX)	
60	4-226-802-01	BACK PANEL (E5)(DE545:US)		△ T901	1-435-312-11	TRANSFORMER, POWER(DE445:CND)	
60	4-226-802-11	BACK PANEL (E5)(DE545:CND)		△ T901	1-435-313-11	TRANSFORMER, POWER(DE445:US)	
60	4-226-802-21	BACK PANEL (E5)(DE545:AUS)		△ T901	1-435-314-11	TRANSFORMER, POWER(DE445:AEP,UK,CIS)	
60	4-226-802-31	BACK PANEL (E5)(DE545:E,PX)		△ T901	1-435-562-11	TRANSFORMER, POWER(DE545:TW)	

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.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

## SECTION 5

### ELECTRICAL PARTS LIST

**AC SEL**

**DIGITAL**

#### 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.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
 

CND	: Canadian	MY	: Malaysia
AUS	: Australian	SP	: Singapore
CH	: Chinese	TW	: Taiwan
- CAPACITORS:  
uF:  $\mu$ F
- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH:  $\mu$ H

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

- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...

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

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

以阴影和  $\Delta$  标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-676-788-11	AC SEL BOARD (E,PX)		C1221	1-126-965-11	ELECT 22uF	20.00% 50V
		*****		C1222	1-126-965-11	ELECT 22uF	20.00% 50V
	1-533-223-11	HOLDER, FUSE (E,PX)		C1223	1-126-965-11	ELECT 22uF	20.00% 50V
		< CONNECTOR >		C1224	1-165-319-11	CERAMIC CHIP 0.1uF	50V
* CNP910	1-580-445-11	PIN, CONNECTOR 3P(E,PX)		C1225	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		< FUSE >		C1226	1-126-964-11	ELECT 10uF	20.00% 50V
$\Delta$ F903	1-532-504-31	FUSE T4AL 250V(E,PX)		C1228	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		< SWITCH >		C1229	1-104-664-11	ELECT 47uF	20.00% 16V
$\Delta$ S901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(E,PX)		C1230	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		*****		C1231	1-126-964-11	ELECT 10uF	20.00% 50V
	A-4424-456-A	DIGITAL BOARD, COMPLETE (DE445)		C1232	1-126-935-11	ELECT 470uF	20.00% 6.3V
		*****		C1233	1-126-960-11	ELECT 1uF	20.00% 50V
	A-4424-459-A	DIGITAL BOARD, COMPLETE (DE545,SE501)		C1251	1-126-965-11	ELECT 22uF	20.00% 50V
		*****		C1252	1-165-319-11	CERAMIC CHIP 0.1uF	50V
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3		C1253	1-126-964-11	ELECT 10uF	20.00% 50V
		< CAPACITOR >		C1254	1-106-347-00	MYLAR 0.0015uF	5.00% 50V
C1001	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1271	1-126-965-11	ELECT 22uF	20.00% 50V
C1002	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1272	1-126-965-11	ELECT 22uF	20.00% 50V
		(DE545,SE501)		C1273	1-126-965-11	ELECT 22uF	20.00% 50V
C1101	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1301	1-126-935-11	ELECT 470uF	20.00% 6.3V
C1102	1-163-021-91	CERAMIC CHIP 0.01uF	10.00% 50V	C1302	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1103	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1303	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1104	1-104-664-11	ELECT 47uF	20.00% 16V	C1304	1-104-664-11	ELECT 47uF	20.00% 16V
C1105	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1305	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C1106	1-163-021-91	CERAMIC CHIP 0.01uF	10.00% 50V	C1306	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1107	1-104-664-11	ELECT 47uF	20.00% 16V	C1307	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1108	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1308	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1109	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1309	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1110	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1310	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1111	1-163-021-91	CERAMIC CHIP 0.01uF	10.00% 50V	C1311	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1112	1-163-233-11	CERAMIC CHIP 18PF	5.00% 50V	C1312	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1113	1-163-233-11	CERAMIC CHIP 18PF	5.00% 50V	C1313	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1114	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1314	1-126-960-11	ELECT 1uF	20.00% 50V
C1115	1-104-664-11	ELECT 47uF	20.00% 16V	C1315	1-126-935-11	ELECT 470uF	20.00% 6.3V
C1116	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C1316	1-126-935-11	ELECT 470uF	20.00% 6.3V
C1201	1-126-965-11	ELECT 22uF	20.00% 50V	C1317	1-126-960-11	ELECT 1uF	20.00% 50V
C1202	1-106-347-00	MYLAR 0.0015uF	5.00% 50V	C1318	1-104-665-11	ELECT 100uF	20.00% 10V
				C1319	1-104-665-11	ELECT 100uF	20.00% 10V
				C1320	1-126-935-11	ELECT 470uF	20.00% 6.3V
				C1321	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1322	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V
				C1323	1-163-217-11	CERAMIC CHIP 1PF	0.25PF 50V
				C1324	1-126-965-11	ELECT 22uF	20.00% 50V
				C1325	1-163-021-91	CERAMIC CHIP 0.01uF	10.00% 50V
				C1329	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C1330	1-163-251-11	CERAMIC CHIP 100PF 5.00% 50V		R1002	1-216-025-91	RES-CHIP 100 5% 1/10W	(DE545,SE501)
		< CONNECTOR >		R1003	1-216-022-00	METAL CHIP 75 5% 1/10W	
* CNP501	1-691-774-11	PLUG (MICRO CONNECTOR) 12P		R1101	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
* CNP502	1-564-506-11	PLUG, CONNECTOR 3P		R1102	1-216-066-00	METAL CHIP 5.1K 5% 1/10W	
		< CONNECTOR >		R1103	1-216-066-00	METAL CHIP 5.1K 5% 1/10W	
CNS103	1-794-006-11	CONNECTOR 20P		R1104	1-216-022-00	METAL CHIP 75 5% 1/10W	
		< DIODE >		R1110	1-216-049-91	RES-CHIP 1K 5% 1/10W	
D1101	8-719-016-74	DIODE 1SS352-TPH3		R1111	1-216-049-91	RES-CHIP 1K 5% 1/10W	
D1201	8-719-016-74	DIODE 1SS352-TPH3		R1112	1-216-049-91	RES-CHIP 1K 5% 1/10W	
D1202	8-719-016-74	DIODE 1SS352-TPH3		R1113	1-216-073-00	METAL CHIP 10K 5% 1/10W	
D1301	8-719-016-74	DIODE 1SS352-TPH3		R1114	1-216-073-00	METAL CHIP 10K 5% 1/10W	
		< FERRITE BEAD >		R1115	1-216-043-91	RES-CHIP 560 5% 1/10W	
FB1101	1-414-813-11	FERRITE 0UH		R1116	1-216-121-91	RES-CHIP 1M 5% 1/10W	
FB1102	1-469-152-11	FERRITE 0UH		R1117	1-216-025-91	RES-CHIP 100 5% 1/10W	
FB1103	1-469-152-11	FERRITE 0UH		R1118	1-216-025-91	RES-CHIP 100 5% 1/10W	
FB1104	1-469-152-11	FERRITE 0UH		R1119	1-216-025-91	RES-CHIP 100 5% 1/10W	
FB1105	1-469-152-11	FERRITE 0UH		R1120	1-216-025-91	RES-CHIP 100 5% 1/10W	
FB1106	1-469-152-11	FERRITE 0UH		R1201	1-216-073-00	METAL CHIP 10K 5% 1/10W	
FB1107	1-469-152-11	FERRITE 0UH		R1202	1-216-059-00	METAL CHIP 2.7K 5% 1/10W	
FB1108	1-469-152-11	FERRITE 0UH		R1203	1-216-037-00	METAL CHIP 330 5% 1/10W	
FB1201	1-414-813-11	FERRITE 0UH		R1204	1-216-073-00	METAL CHIP 10K 5% 1/10W	
FB1301	1-414-813-11	FERRITE 0UH		R1205	1-216-073-00	METAL CHIP 10K 5% 1/10W	
FB1302	1-414-813-11	FERRITE 0UH		R1206	1-216-037-00	METAL CHIP 330 5% 1/10W	
FB1303	1-414-813-11	FERRITE 0UH		R1221	1-216-025-91	RES-CHIP 100 5% 1/10W	
FB1304	1-414-813-11	FERRITE 0UH		R1222	1-216-073-00	METAL CHIP 10K 5% 1/10W	
FB1305	1-414-813-11	FERRITE 0UH		R1223	1-216-097-91	RES-CHIP 100K 5% 1/10W	
		< IC >		R1251	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC1001	8-749-017-36	IC TORX-179(DVD/LD OPTICAL IN)		R1252	1-216-059-00	METAL CHIP 2.7K 5% 1/10W	
IC1002	8-749-923-05	IC TORX178A(TV/SAT OPTICAL IN)	(DE545,SE501)	R1253	1-216-037-00	METAL CHIP 330 5% 1/10W	
IC1003	8-759-242-70	IC TC7WU04F(TE12R)		R1254	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC1004	8-759-639-35	IC LC89055W-RA8		R1255	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC1005	8-759-242-70	IC TC7WU04F(TE12R)		R1256	1-216-037-00	METAL CHIP 330 5% 1/10W	
IC1006	8-759-643-42	IC CXD9511AQ		R1257	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
IC1007	8-759-342-94	IC IDT71256SA20Y-TL		R1258	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
IC1008	8-759-657-47	IC AK4527		R1301	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC1009	8-759-039-69	IC uPC7805AHF		R1302	1-216-025-91	RES-CHIP 100 5% 1/10W	
IC1010	8-759-647-10	IC uPC2933HF		R1303	1-216-025-91	RES-CHIP 100 5% 1/10W	
IC1011	8-759-039-69	IC uPC7805AHF		R1304	1-216-025-91	RES-CHIP 100 5% 1/10W	
IC1013	8-759-039-69	IC uPC7805AHF		R1305	1-216-073-00	METAL CHIP 10K 5% 1/10W	
IC1201	8-759-099-06	IC M5218AFP-TE1		R1306	1-216-081-00	METAL CHIP 22K 5% 1/10W	
IC1251	8-759-099-06	IC M5218AFP-TE1		R1307	1-216-115-00	METAL CHIP 560K 5% 1/10W	
		< JACK >		R1308	1-216-115-00	METAL CHIP 560K 5% 1/10W	
J1001	1-784-431-11	JACK, PIN 1P(DVD/LD COAXIAL IN)		R1309	1-216-025-91	RES-CHIP 100 5% 1/10W	
		< JUMPER RESISTOR >		R1310	1-216-049-91	RES-CHIP 1K 5% 1/10W	
JW1101	1-216-295-91	SHORT 0 (DE445)		R1311	1-216-073-00	METAL CHIP 10K 5% 1/10W	
		< RESISTOR >		R1312	1-216-025-91	RES-CHIP 100 5% 1/10W	
R1001	1-216-025-91	RES-CHIP 100 5% 1/10W		R1313	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R1314	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R1315	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R1316	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R1317	1-216-025-91	RES-CHIP 100 5% 1/10W	
						< VIBRATOR >	
				X1101	1-781-465-21	VIBRATOR, CRYSTAL (12.288MHz)	

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# DISPLAY

Ref. No.	Part No.	Description	Remark
	A-4428-428-A	DISPLAY BOARD, COMPLETE (DE445:US) *****	
	A-4428-438-A	DISPLAY BOARD, COMPLETE (DE545:US) *****	
	A-4428-458-A	DISPLAY BOARD, COMPLETE (SE501) *****	
	A-4428-464-A	DISPLAY BOARD, COMPLETE (DE445:CND) *****	
	A-4428-466-A	DISPLAY BOARD, COMPLETE ***** (DE445:AEP,UK,CIS)	
	A-4428-468-A	DISPLAY BOARD, COMPLETE (DE545:CND) *****	
	A-4428-471-A	DISPLAY BOARD, COMPLETE ***** (DE545:AEP,UK,CIS)	
	A-4428-479-A	DISPLAY BOARD, COMPLETE (DE545:TW,E,PX) *****	
	A-4428-482-A	DISPLAY BOARD, COMPLETE (DE545:CH,SP,MY) *****	
	A-4428-492-A	DISPLAY BOARD, COMPLETE (DE545:AUS) *****	
*	3-386-245-12	HOLDER (FL)	
*	4-921-941-01	CUSHION (FL)	
< CAPACITOR >			
C011	1-164-159-11	CERAMIC 0.1uF	50V
C100	1-164-159-11	CERAMIC 0.1uF	50V
C101	1-164-159-11	CERAMIC 0.1uF	50V
C102	1-104-905-11	CAPACITOR 0.22F	5.5V
C103	1-164-159-11	CERAMIC 0.1uF	50V
C109	1-164-159-11	CERAMIC 0.1uF	50V
C110	1-164-159-11	CERAMIC 0.1uF	50V
C111	1-124-589-11	ELECT 47uF	20% 16V
C112	1-124-465-00	ELECT 0.47uF	20% 50V
C113	1-136-169-00	MYLAR 0.22uF	5.00% 50V
C114	1-164-159-11	CERAMIC 0.1uF	50V
C115	1-164-159-11	CERAMIC 0.1uF	50V
C116	1-164-159-11	CERAMIC 0.1uF	50V
C117	1-124-261-00	ELECT 10uF	20% 50V
C119	1-124-261-00	ELECT 10uF	20% 50V
C120	1-164-159-11	CERAMIC 0.1uF	50V
C121	1-128-809-11	CERAMIC 100PF	5% 50V
C122	1-128-809-11	CERAMIC 100PF	5% 50V
C123	1-164-159-11	CERAMIC 0.1uF	50V
C124	1-128-809-11	CERAMIC 100PF	5% 50V
C125	1-162-306-11	CERAMIC 0.01uF	30.00% 16V
C126	1-162-306-11	CERAMIC 0.01uF	30.00% 16V
C127	1-162-306-11	CERAMIC 0.01uF	30.00% 16V
C128	1-162-306-11	CERAMIC 0.01uF	30.00% 16V
C129	1-124-261-00	ELECT 10uF	20% 50V
C130	1-164-159-11	CERAMIC 0.1uF	50V
C131	1-124-261-00	ELECT 10uF	20% 50V

Ref. No.	Part No.	Description	Remark
C132	1-164-159-11	CERAMIC 0.1uF	50V
C134	1-164-159-11	CERAMIC 0.1uF	50V
C198	1-164-159-11	CERAMIC 0.1uF	50V
C199	1-164-159-11	CERAMIC 0.1uF	50V
< CONNECTOR >			
CNP100	1-794-028-11	BOARD TO BOARD PIN 4P	
* CNP102	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CNP103	1-794-001-11	CONNECTOR 20P	
CNP104	1-794-002-11	CONNECTOR 13P(EXCEPT AEP,UK,CIS)	
CNP104	1-794-003-11	CONNECTOR 15P(AEP,UK,CIS)	
* CNP106	1-564-594-11	PLUG, CONNECTOR 15P	
* CNP107	1-564-521-11	PLUG, CONNECTOR 6P	
CNP110	1-794-028-11	BOARD TO BOARD PIN 4P	
< CONNECTOR >			
* CNS101	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P	
* CNS105	1-695-808-11	CONNECTOR, PC BOARD 8P	
< DIODE >			
D002	8-719-046-39	DIODE SEL5821A-TP15(MODE)	
D003	8-719-046-39	DIODE SEL5821A-TP15(2 CH)	
D004	8-719-046-39	DIODE SEL5821A-TP15(A.F.D)	
D005	8-719-046-39	DIODE SEL5821A-TP15(BASS/TREBLE)	
D006	8-719-046-39	DIODE SEL5821A-TP15(JOG)	
D007	8-719-046-39	DIODE SEL5821A-TP15(LEVEL)	
D008	8-719-046-39	DIODE SEL5821A-TP15(SUR)	
D009	8-719-046-39	DIODE SEL5821A-TP15(SET UP)	
D010	8-719-046-39	DIODE SEL5821A-TP15(NAME)	
D011	8-719-072-82	DIODE SELU5E20C-STP15(MULTICHANNEL DECODING)	
D012	8-719-313-50	DIODE SEL6810A-TH12(BASS BOOST)	
D013	8-719-313-50	DIODE SEL6810A-TH12(TONE)	
D014	8-719-046-37	DIODE SEL5820A-TH8F(DIGITAL)	
D100	8-719-911-19	DIODE 1SS133T-72	
D101	8-719-911-19	DIODE 1SS133T-72	
D102	8-719-911-19	DIODE 1SS133T-72	
D103	8-719-911-19	DIODE 1SS133T-72	
D104	8-719-911-19	DIODE 1SS133T-72(DE545,SE501)	
D109	8-719-911-19	DIODE 1SS133T-72	
D110	8-719-911-19	DIODE 1SS133T-72	
< FERRITE BEAD >			
FB100	1-412-473-31	FERRITE 0UH	
< FILTER >			
FL101	1-517-929-11	TUBE, FLUORESCENT INDICATOR	
< TERMINAL >			
* G791	1-537-738-21	TERMINAL, EARTH	
< IC >			
IC101	8-759-332-18	IC GP1U27XB(REMOTE SENSOR)	
IC102	8-759-656-88	IC MB90553ABPF-G-158-BND	
IC103	8-759-463-11	IC MSC1162AGS-BK	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
		< COIL >				R098	1-249-415-11	CARBON	680	5%	1/4W F (DE445:US,CND)
L101	1-408-117-00	INDUCTOR 10uH				R098	1-247-843-11	CARBON	3.3K	5%	1/4W (DE545:CH,SP,MY)
		< TRANSISTOR >				R098	1-249-427-11	CARBON	6.8K	5%	1/4W F (DE545:TW,AEP,UK,CIS,E,PX)
Q001	8-729-900-63	TRANSISTOR BN1F4M-TP				R098	1-249-433-11	CARBON	22K	5%	1/4W (DE545:AUS)
Q002	8-729-900-63	TRANSISTOR BN1F4M-TP				R098	1-249-421-11	CARBON	2.2K	5%	1/4W F (DE445:AEP,UK,CIS)
Q003	8-729-900-36	TRANSISTOR BA1F4M-TP									
Q004	8-729-311-51	TRANSISTOR 2SC1115				R099	1-249-431-11	CARBON	15K	5%	1/4W (DE445:US,CND)
Q005	8-729-311-51	TRANSISTOR 2SC1115				R099	1-249-427-11	CARBON	6.8K	5%	1/4W F (DE545:CH,SP,MY)
Q006	8-729-311-51	TRANSISTOR 2SC1115				R099	1-247-843-11	CARBON	3.3K	5%	1/4W (DE545:TW,E,PX)
Q007	8-729-900-63	TRANSISTOR BN1F4M-TP				R099	1-249-435-11	CARBON	33K	5%	1/4W (DE545:AEP,UK,CIS)
Q008	8-729-900-63	TRANSISTOR BN1F4M-TP				R099	1-249-433-11	CARBON	22K	5%	1/4W (DE445:AEP,UK,CIS/DE545:AUS)
Q009	8-729-900-63	TRANSISTOR BN1F4M-TP									
Q010	8-729-900-63	TRANSISTOR BN1F4M-TP				R100	1-247-807-31	CARBON	100	5%	1/4W
Q011	8-729-900-63	TRANSISTOR BN1F4M-TP				R101	1-247-807-31	CARBON	100	5%	1/4W
Q100	8-729-900-63	TRANSISTOR BN1F4M-TP				R102	1-247-807-31	CARBON	100	5%	1/4W
Q101	8-729-900-36	TRANSISTOR BA1F4M-TP				R103	1-247-807-31	CARBON	100	5%	1/4W
Q102	8-729-119-78	TRANSISTOR 2SC2785TP-HFE (DE545,SE501)				R104	1-249-429-11	CARBON	10K	5%	1/4W (SE501)
Q103	8-729-119-78	TRANSISTOR 2SC2785TP-HFE									
Q104	8-729-900-36	TRANSISTOR BA1F4M-TP				R105	1-249-417-11	CARBON	1K	5%	1/4W F
		< RESISTOR >				R106	1-249-421-11	CARBON	2.2K	5%	1/4W F
R011	1-249-411-11	CARBON	330	5%	1/4W	R107	1-249-421-11	CARBON	2.2K	5%	1/4W F
R012	1-249-413-11	CARBON	470	5%	1/4W F	R108	1-249-421-11	CARBON	2.2K	5%	1/4W F
R013	1-249-415-11	CARBON	680	5%	1/4W F	R109	1-249-421-11	CARBON	2.2K	5%	1/4W F
R014	1-249-417-11	CARBON	1K	5%	1/4W F						
R015	1-249-419-11	CARBON	1.5K	5%	1/4W F	R110	1-249-421-11	CARBON	2.2K	5%	1/4W F
						R111	1-249-421-11	CARBON	2.2K	5%	1/4W F
R016	1-249-421-11	CARBON	2.2K	5%	1/4W F	R112	1-249-427-11	CARBON	6.8K	5%	1/4W F
R021	1-249-411-11	CARBON	330	5%	1/4W	R113	1-249-427-11	CARBON	6.8K	5%	1/4W F
R022	1-249-413-11	CARBON	470	5%	1/4W F	R114	1-249-427-11	CARBON	6.8K	5%	1/4W F
R023	1-249-415-11	CARBON	680	5%	1/4W F						
R024	1-249-417-11	CARBON	1K	5%	1/4W F	R115	1-249-427-11	CARBON	6.8K	5%	1/4W F
						R116	1-249-417-11	CARBON	1K	5%	1/4W F (AEP,UK,CIS)
R025	1-249-419-11	CARBON	1.5K	5%	1/4W F	R117	1-249-437-11	CARBON	47K	5%	1/4W
R026	1-249-421-11	CARBON	2.2K	5%	1/4W F	R118	1-249-429-11	CARBON	10K	5%	1/4W
R027	1-247-843-11	CARBON	3.3K	5%	1/4W	R119	1-249-425-11	CARBON	4.7K	5%	1/4W F
R028	1-249-425-11	CARBON	4.7K	5%	1/4W F						
R030	1-249-411-11	CARBON	330	5%	1/4W	R120	1-249-429-11	CARBON	10K	5%	1/4W
						R121	1-247-899-11	CARBON	680K	5%	1/4W
R031	1-249-413-11	CARBON	470	5%	1/4W F	R122	1-249-433-11	CARBON	22K	5%	1/4W
R032	1-249-415-11	CARBON	680	5%	1/4W F	R123	1-249-433-11	CARBON	22K	5%	1/4W
R033	1-249-417-11	CARBON	1K	5%	1/4W F	R124	1-249-433-11	CARBON	22K	5%	1/4W
R034	1-249-419-11	CARBON	1.5K	5%	1/4W F						
R035	1-249-421-11	CARBON	2.2K	5%	1/4W F	R125	1-247-807-31	CARBON	100	5%	1/4W
						R126	1-247-807-31	CARBON	100	5%	1/4W
R036	1-247-843-11	CARBON	3.3K	5%	1/4W	R127	1-249-429-11	CARBON	10K	5%	1/4W
R037	1-249-425-11	CARBON	4.7K	5%	1/4W F	R128	1-247-807-31	CARBON	100	5%	1/4W
R052	1-249-407-11	CARBON	150	5%	1/4W F	R129	1-247-807-31	CARBON	100	5%	1/4W
R053	1-249-407-11	CARBON	150	5%	1/4W F						
R054	1-247-807-31	CARBON	100	5%	1/4W	R130	1-247-807-31	CARBON	100	5%	1/4W
						R131	1-247-807-31	CARBON	100	5%	1/4W
R055	1-247-807-31	CARBON	100	5%	1/4W	R132	1-247-807-31	CARBON	100	5%	1/4W
R056	1-247-807-31	CARBON	100	5%	1/4W	R133	1-247-807-31	CARBON	100	5%	1/4W
R057	1-247-807-31	CARBON	100	5%	1/4W	R134	1-247-807-31	CARBON	100	5%	1/4W
R058	1-247-807-31	CARBON	100	5%	1/4W						
R061	1-249-407-11	CARBON	150	5%	1/4W F	R135	1-247-807-31	CARBON	100	5%	1/4W
						R136	1-247-807-31	CARBON	100	5%	1/4W
R062	1-249-407-11	CARBON	150	5%	1/4W F	R137	1-247-807-31	CARBON	100	5%	1/4W
R063	1-249-407-11	CARBON	150	5%	1/4W F						
R064	1-249-407-11	CARBON	150	5%	1/4W F						
R065	1-249-441-11	CARBON	100K	5%	1/4W						

<b>DISPLAY</b>	<b>HEADPHONE</b>	<b>JOG</b>	<b>MAIN</b>
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Ref. No.	Part No.	Description	Remark
R138	1-247-807-31	CARBON	100 5% 1/4W
R139	1-247-807-31	CARBON	100 5% 1/4W
R140	1-247-807-31	CARBON	100 5% 1/4W
R141	1-247-807-31	CARBON	100 5% 1/4W
R142	1-247-807-31	CARBON	100 5% 1/4W
R143	1-247-807-31	CARBON	100 5% 1/4W
R144	1-249-429-11	CARBON	10K 5% 1/4W
R145	1-247-807-31	CARBON	100 5% 1/4W
R146	1-247-807-31	CARBON	100 5% 1/4W
R147	1-247-807-31	CARBON	100 5% 1/4W
R148	1-247-807-31	CARBON	100 5% 1/4W
R149	1-247-807-31	CARBON	100 5% 1/4W
R150	1-247-807-31	CARBON	100 5% 1/4W
R151	1-247-807-31	CARBON	100 5% 1/4W
R152	1-247-807-31	CARBON	100 5% 1/4W
R153	1-247-807-31	CARBON	100 5% 1/4W
R154	1-249-429-11	CARBON	10K 5% 1/4W
R161	1-249-441-11	CARBON	100K 5% 1/4W
R162	1-249-441-11	CARBON	100K 5% 1/4W
R163	1-249-441-11	CARBON	100K 5% 1/4W
R164	1-249-441-11	CARBON	100K 5% 1/4W
R165	1-249-437-11	CARBON	47K 5% 1/4W
R175	1-249-393-11	CARBON	10 5% 1/4W F (DE545,SE501)
R176	1-249-429-11	CARBON	10K 5% 1/4W (DE545,SE501)
R177	1-249-425-11	CARBON	4.7K 5% 1/4W F
R178	1-249-429-11	CARBON	10K 5% 1/4W (DE445)
R179	1-249-429-11	CARBON	10K 5% 1/4W
R187	1-249-429-11	CARBON	10K 5% 1/4W
R188	1-249-429-11	CARBON	10K 5% 1/4W
R189	1-249-429-11	CARBON	10K 5% 1/4W
R198	1-249-385-11	CARBON	2.2 5% 1/6W F
R199	1-249-385-11	CARBON	2.2 5% 1/6W F
< VARIABLE RESISTOR >			
RV102	1-418-773-11	ENCODER, ROTARY(MASTER VOLUME)	
< SWITCH >			
S110	1-771-410-21	SWITCH, TACTILE(<)	
S111	1-771-410-21	SWITCH, TACTILE(CHINEMA STUDIO C)	
S112	1-771-410-21	SWITCH, TACTILE(SUR)	
S113	1-771-410-21	SWITCH, TACTILE(ENTER)	
S114	1-771-410-21	SWITCH, TACTILE(BASS/TREBLE)	
S115	1-771-410-21	SWITCH, TACTILE(NAME)	
S116	1-771-410-21	SWITCH, TACTILE(SET UP)	
S120	1-771-410-21	SWITCH, TACTILE(>)	
S121	1-771-410-21	SWITCH, TACTILE(CHINEMA STUDIO B)	
S122	1-771-410-21	SWITCH, TACTILE(CHINEMA STUDIO A)	
S123	1-771-410-21	SWITCH, TACTILE(AUX)	
S124	1-771-410-21	SWITCH, TACTILE(DVD/LD)	
S125	1-771-410-21	SWITCH, TACTILE(2 CH)	
S126	1-771-410-21	SWITCH, TACTILE(MODE)	
S127	1-771-410-21	SWITCH, TACTILE(TUNER)	
S128	1-771-410-21	SWITCH, TACTILE(CD)	
S129	1-771-410-21	SWITCH, TACTILE(DISPLAY)	
S130	1-771-410-21	SWITCH, TACTILE(DIMMER)	

Ref. No.	Part No.	Description	Remark
S131	1-771-410-21	SWITCH, TACTILE(A.F.D)	
S132	1-771-410-21	SWITCH, TACTILE(INPUT MODE)	
S133	1-771-410-21	SWITCH, TACTILE(5.1CH INPUT)	
S134	1-771-410-21	SWITCH, TACTILE(LEVEL)	
S135	1-771-410-21	SWITCH, TACTILE(TV/SAT)	
S136	1-771-410-21	SWITCH, TACTILE(MD/TAPE)	
S137	1-771-410-21	SWITCH, TACTILE(VIDEO)	
< VIBRATOR >			
X101	1-781-356-21	VIBRATOR, CERAMIC (16MHz)	
*****			
	1-676-786-11	HEADPHONE BOARD	
*****			
< CONNECTOR >			
CNP792	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
< JACK >			
J791	1-750-733-11	JACK (LARGE TYPE)(PHONES)	
		(EXCEPT CH,TW,SP,MY)	
J791	1-750-735-11	JACK (LARGE TYPE)(PHONES)(CH,TW,SP,MY)	
*****			
	1-676-787-11	JOG BOARD	
*****			
< VARIABLE RESISTOR >			
RV101	1-418-817-11	ENCODER (ROTARY)(JOG)	
*****			
	A-4428-423-A	MAIN BOARD, COMPLETE (DE445:US)	
*****			
	A-4428-429-A	MAIN BOARD, COMPLETE (DE545:US,SE501)	
*****			
	A-4428-463-A	MAIN BOARD, COMPLETE (DE445:CND)	
*****			
	A-4428-465-A	MAIN BOARD, COMPLETE (DE445:AEP,UK,CIS)	
*****			
	A-4428-467-A	MAIN BOARD, COMPLETE (DE545:CND,E,PX)	
*****			
	A-4428-469-A	MAIN BOARD, COMPLETE (DE545:AEP,UK,CIS)	
*****			
	A-4428-490-A	MAIN BOARD, COMPLETE	
*****			
		(DE545:CH,TW,SP,MY,AUS)	
7-685-646-79	SCREW +BVTP	3X8	TYPE2 IT-3
< CAPACITOR >			
C303	1-128-815-11	CERAMIC	330PF 5% 50V (AEP,UK,CIS)
C304	1-126-961-11	ELECT	2.2uF 20.00% 50V (AEP,UK,CIS)
C305	1-164-159-11	CERAMIC	0.1uF 50V (AEP,UK,CIS)

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C306	1-128-818-11	CERAMIC	560PF	5%	50V (AEP,UK,CIS)	C462	1-130-481-00	MYLAR	0.0068uF	5%	50V
C307	1-102-527-11	CERAMIC	82PF	5.00%	50V (AEP,UK,CIS)	C463	1-136-495-11	MYLAR	0.068uF	5.00%	50V
C308	1-102-852-91	CERAMIC	47PF	5.00%	50V (AEP,UK,CIS)	C464	1-130-481-00	MYLAR	0.0068uF	5%	50V
C309	1-124-261-00	ELECT	10uF	20%	50V (AEP,UK,CIS)	C465	1-124-261-00	ELECT	10uF	20%	50V
C310	1-164-159-11	CERAMIC	0.1uF		50V (AEP,UK,CIS)	C466	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C320	1-164-159-11	CERAMIC	0.1uF		50V	C467	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C321	1-164-159-11	CERAMIC	0.1uF		50V	C468	1-124-261-00	ELECT	10uF	20%	50V
C322	1-164-159-11	CERAMIC	0.1uF		50V	C469	1-124-261-00	ELECT	10uF	20%	50V
C323	1-128-813-11	CERAMIC	220PF	5%	50V	C470	1-124-261-00	ELECT	10uF	20%	50V
C324	1-128-813-11	CERAMIC	220PF	5%	50V	C471	1-126-963-11	ELECT	4.7uF	20.00%	50V
C371	1-164-159-11	CERAMIC	0.1uF		50V	C472	1-126-963-11	ELECT	4.7uF	20.00%	50V
C372	1-164-159-11	CERAMIC	0.1uF		50V	C473	1-126-963-11	ELECT	4.7uF	20.00%	50V
C373	1-164-159-11	CERAMIC	0.1uF		50V	C474	1-126-963-11	ELECT	4.7uF	20.00%	50V
C374	1-164-159-11	CERAMIC	0.1uF		50V	C475	1-126-963-11	ELECT	4.7uF	20.00%	50V
C375	1-164-159-11	CERAMIC	0.1uF		50V	C476	1-126-963-11	ELECT	4.7uF	20.00%	50V
C376	1-164-159-11	CERAMIC	0.1uF		50V	C477	1-126-963-11	ELECT	4.7uF	20.00%	50V
C401	1-124-261-00	ELECT	10uF	20%	50V	C484	1-126-965-11	ELECT	22uF	20.00%	50V
C402	1-124-261-00	ELECT	10uF	20%	50V	C491	1-128-803-11	CERAMIC	33PF	5%	50V
C404	1-124-261-00	ELECT	10uF	20%	50V	C492	1-128-803-11	CERAMIC	33PF	5%	50V
C405	1-124-261-00	ELECT	10uF	20%	50V	C493	1-128-803-11	CERAMIC	33PF	5%	50V
C406	1-124-261-00	ELECT	10uF	20%	50V	C494	1-128-803-11	CERAMIC	33PF	5%	50V
C408	1-124-261-00	ELECT	10uF	20%	50V	C495	1-128-803-11	CERAMIC	33PF	5%	50V
C409	1-124-261-00	ELECT	10uF	20%	50V	C496	1-128-803-11	CERAMIC	33PF	5%	50V
C410	1-124-261-00	ELECT	10uF	20%	50V	C497	1-128-803-11	CERAMIC	33PF	5%	50V
C411	1-164-159-11	CERAMIC	0.1uF		50V	C498	1-128-803-11	CERAMIC	33PF	5%	50V
C412	1-130-481-00	MYLAR	0.0068uF	5%	50V	C499	1-124-261-00	ELECT	10uF	20%	50V
C413	1-136-495-11	MYLAR	0.068uF	5.00%	50V	C501	1-126-963-11	ELECT	4.7uF	20.00%	50V
C414	1-130-481-00	MYLAR	0.0068uF	5%	50V	C502	1-128-809-11	CERAMIC	100PF	5%	50V
C416	1-136-165-00	MYLAR	0.1uF	5.00%	50V	C503	1-102-989-00	CERAMIC	68PF	5.00%	500V
C417	1-136-165-00	MYLAR	0.1uF	5.00%	50V	C504	1-102-989-00	CERAMIC	68PF	5.00%	500V
C418	1-124-261-00	ELECT	10uF	20%	50V	C505	1-104-665-11	ELECT	100uF	20.00%	10V
C419	1-126-963-11	ELECT	4.7uF	20.00%	50V	C506	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C420	1-124-261-00	ELECT	10uF	20%	50V	C510	1-104-664-11	ELECT	47uF	20.00%	25V
C421	1-124-261-00	ELECT	10uF	20%	50V	C511	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C425	1-124-261-00	ELECT	10uF	20%	50V	C520	1-128-813-11	CERAMIC	220PF	5%	50V
C428	1-126-963-11	ELECT	4.7uF	20.00%	50V	C524	1-126-960-11	ELECT	1uF	20.00%	50V
C429	1-164-159-11	CERAMIC	0.1uF		50V	C526	1-127-876-11	CERAMIC	0.01uF	10%	50V
C430	1-164-159-11	CERAMIC	0.1uF		50V	C601	1-126-963-11	ELECT	4.7uF	20.00%	50V
C431	1-128-809-11	CERAMIC	100PF	5%	50V	C603	1-104-665-11	ELECT	100uF	20.00%	10V
C432	1-128-809-11	CERAMIC	100PF	5%	50V	C604	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C433	1-128-809-11	CERAMIC	100PF	5%	50V	C605	1-102-233-00	CERAMIC	33PF	10.00%	500V
C434	1-126-965-11	ELECT	22uF	20.00%	50V	C606	1-128-809-11	CERAMIC	100PF	5%	50V
C441	1-164-159-11	CERAMIC	0.1uF		50V	C607	1-128-809-11	CERAMIC	100PF	5%	50V
C442	1-164-159-11	CERAMIC	0.1uF		50V	C610	1-104-664-11	ELECT	47uF	20.00%	16V
C451	1-124-261-00	ELECT	10uF	20%	50V	C611	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C452	1-124-261-00	ELECT	10uF	20%	50V	C620	1-128-813-11	CERAMIC	220PF	5%	50V
C454	1-124-261-00	ELECT	10uF	20%	50V	C624	1-126-960-11	ELECT	1uF	20.00%	50V
C455	1-124-261-00	ELECT	10uF	20%	50V	C626	1-127-876-11	CERAMIC	0.01uF	10%	50V
C456	1-124-261-00	ELECT	10uF	20%	50V	C651	1-126-963-11	ELECT	4.7uF	20.00%	50V
C457	1-124-261-00	ELECT	10uF	20%	50V	C653	1-104-665-11	ELECT	100uF	20.00%	10V
C458	1-124-261-00	ELECT	10uF	20%	50V	C654	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C459	1-124-261-00	ELECT	10uF	20%	50V	C655	1-102-233-00	CERAMIC	33PF	10.00%	500V
C460	1-124-261-00	ELECT	10uF	20%	50V	C656	1-128-809-11	CERAMIC	100PF	5%	50V
C461	1-126-963-11	ELECT	4.7uF	20.00%	50V	C657	1-128-809-11	CERAMIC	100PF	5%	50V
						C660	1-104-664-11	ELECT	47uF	20.00%	16V
						C661	1-136-157-00	MYLAR	0.022uF	5.00%	50V
						C670	1-128-813-11	CERAMIC	220PF	5%	50V
						C701	1-126-963-11	ELECT	4.7uF	20.00%	50V

# MAIN

Ref. No.	Part No.	Description	Remark
C703	1-104-665-11	ELECT	100uF 20.00% 10V
C704	1-107-583-11	CERAMIC	3PF 0.25PF 500V
C705	1-102-233-00	CERAMIC	33PF 10.00% 500V
C706	1-128-809-11	CERAMIC	100PF 5% 50V
C707	1-128-809-11	CERAMIC	100PF 5% 50V
C710	1-104-664-11	ELECT	47uF 20.00% 16V
C711	1-136-157-00	MYLAR	0.022uF 5.00% 50V
C720	1-128-813-11	CERAMIC	220PF 5% 50V
C721	1-126-934-11	ELECT	220uF 20.00% 10V
C722	1-124-261-00	ELECT	10uF 20% 50V
C724	1-126-960-11	ELECT	1uF 20.00% 50V
C726	1-127-876-11	CERAMIC	0.01uF 10% 50V
C734	1-126-960-11	ELECT	1uF 20.00% 50V
C736	1-127-876-11	CERAMIC	0.01uF 10% 50V
C740	1-128-582-11	ELECT	10uF 20.00% 100V
C741	1-128-582-11	ELECT	10uF 20.00% 100V
C751	1-126-963-11	ELECT	4.7uF 20.00% 50V
C753	1-104-665-11	ELECT	100uF 20.00% 10V
C754	1-107-583-11	CERAMIC	3PF 0.25PF 500V
C755	1-102-233-00	CERAMIC	33PF 10.00% 500V
C756	1-128-809-11	CERAMIC	100PF 5% 50V
C757	1-128-809-11	CERAMIC	100PF 5% 50V
C760	1-104-664-11	ELECT	47uF 20.00% 16V
C761	1-136-157-00	MYLAR	0.022uF 5.00% 50V
C770	1-128-813-11	CERAMIC	220PF 5% 50V
C801	1-126-947-11	ELECT	47uF 20.00% 35V
C802	1-126-947-11	ELECT	47uF 20.00% 35V
C803	1-109-932-11	ELECT(BLOCK)	10000uF 20.00% 71V (DE545,SE501)
C803	1-117-203-11	ELECT(BLOCK)	10000uF 20.00% 63V (DE445)
C804	1-109-932-11	ELECT(BLOCK)	10000uF 20.00% 71V (DE545,SE501)
C804	1-117-203-11	ELECT(BLOCK)	10000uF 20.00% 63V (DE445)
C805	1-125-956-11	FILM	0.22uF 5.00% 100V
C806	1-125-956-11	FILM	0.22uF 5.00% 100V
C807	1-104-665-11	ELECT	100uF 20.00% 10V
C808	1-104-665-11	ELECT	100uF 20.00% 10V
C810	1-164-159-11	CERAMIC	0.1uF 50V
C811	1-126-943-11	ELECT	2200uF 20.00% 25V
C812	1-126-941-11	ELECT	470uF 20.00% 25V
C813	1-164-159-11	CERAMIC	0.1uF 50V
C814	1-164-159-11	CERAMIC	0.1uF 50V
C815	1-126-960-11	ELECT	1uF 20.00% 50V
C816	1-104-664-11	ELECT	47uF 20.00% 25V
C817	1-126-936-11	ELECT	3300uF 20.00% 16V
C818	1-104-664-11	ELECT	47uF 20.00% 25V
C825	1-164-159-11	CERAMIC	0.1uF 50V
C826	1-104-664-11	ELECT	47uF 20.00% 25V
C827	1-104-664-11	ELECT	47uF 20.00% 25V
C896	1-104-664-11	ELECT	47uF 20.00% 16V
C897	1-164-159-11	CERAMIC	0.1uF 50V
C898	1-126-948-11	ELECT	100uF 20.00% 35V
C899	1-126-948-11	ELECT	100uF 20.00% 35V
C920	1-164-159-11	CERAMIC	0.1uF 50V
C921	1-164-159-11	CERAMIC	0.1uF 50V

Ref. No.	Part No.	Description	Remark
< CAPACITOR >			
CC01	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC02	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC03	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC04	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC05	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC06	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC07	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC08	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC09	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC10	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC11	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC12	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT E,PX)
CC14	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT E,PX)
CC16	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT E,PX)
CC18	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT E,PX)
CC20	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT E,PX)
CC22	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT DE445,E,PX)
CC24	1-127-876-11	CERAMIC	0.01uF 10% 50V (EXCEPT DE445,E,PX)
CC51	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC52	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC53	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC54	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC55	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC56	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC57	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC58	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC59	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC60	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
CC61	1-128-809-11	CERAMIC	100PF 5% 50V (EXCEPT US,CND,E,PX)
< CONNECTOR >			
CNP301	1-794-003-11	CONNECTOR 15P(AEP,UK,CIS)	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CNP301	1-794-002-11	CONNECTOR 13P(EXCEPT AEP,UK,CIS)				< IC >	
CNP791	1-779-978-11	PIN, CONNECTOR 3P		IC201	8-759-655-38	IC M61501FP	
* CNP801	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P		IC301	8-759-557-36	IC BU1924F-E2(AEP,UK,CIS)	
CNP802	1-691-770-11	PLUG (MICRO CONNECTOR) 8P		IC401	8-759-636-74	IC M5218AP-22	
CNP911	1-691-773-11	PLUG (MICRO CONNECTOR) 11P		IC402	8-759-636-74	IC M5218AP-22	
		< CONNECTOR >		IC403	8-759-636-74	IC M5218AP-22	
CNS401	1-569-321-11	SOCKET, CONNECTOR 15P		IC404	8-759-636-74	IC M5218AP-22	
		< DIODE >		IC501	8-749-011-16	IC STK350-230	
D505	8-719-911-19	DIODE 1SS133T-72		IC701	8-759-326-52	IC uPC2581V	
D506	8-719-911-19	DIODE 1SS133T-72		IC702	8-759-326-52	IC uPC2581V	
D508	8-719-911-19	DIODE 1SS133T-72		IC801	8-759-605-00	IC M5F78M07L	
D510	8-719-911-19	DIODE 1SS133T-72		IC802	8-759-604-95	IC M5F79M07L	
D560	8-719-911-19	DIODE 1SS133T-72		IC803	8-759-039-69	IC uPC7805AHF	
D605	8-719-911-19	DIODE 1SS133T-72		IC804	8-759-039-69	IC uPC7805AHF	
D606	8-719-911-19	DIODE 1SS133T-72		IC806	8-759-376-91	IC uPC78M12AHF	
D607	8-719-911-19	DIODE 1SS133T-72		IC807	8-759-708-05	IC NJM78L05A-T3	
D610	8-719-911-19	DIODE 1SS133T-72				< JACK >	
D617	8-719-911-19	DIODE 1SS133T-72		J253	1-774-843-11	JACK, PIN 1P(SUB WOOFER OUT)	
D627	8-719-911-19	DIODE 1SS133T-72		J401	1-770-614-11	JACK, PIN 4P(AUX/CD IN)	
D691	8-719-911-19	DIODE 1SS133T-72		J402	1-580-825-11	JACK, PIN 6P(MD/TAPE,TV/SAT)	
D692	8-719-911-19	DIODE 1SS133T-72		J403	1-580-825-11	JACK, PIN 6P(DVD/LD,VIDEO)	
D706	8-719-911-19	DIODE 1SS133T-72		J501	1-779-380-11	JACK, PIN 6P(5.1CH INPUT)	
D710	8-719-911-19	DIODE 1SS133T-72				< COIL >	
D721	8-719-911-19	DIODE 1SS133T-72		L301	1-408-080-00	INDUCTOR 100uH(AEP,UK,CIS)	
D722	8-719-911-19	DIODE 1SS133T-72		L521	1-420-872-00	COIL, AIR-CORE	
D725	8-719-911-19	DIODE 1SS133T-72		L601	1-420-872-00	COIL, AIR-CORE	
D726	8-719-911-19	DIODE 1SS133T-72		L651	1-420-872-00	COIL, AIR-CORE	
D727	8-719-911-19	DIODE 1SS133T-72		L701	1-420-872-00	COIL, AIR-CORE	
D728	8-719-911-19	DIODE 1SS133T-72		L751	1-420-872-00	COIL, AIR-COREORE	
D731	8-719-911-19	DIODE 1SS133T-72				< TRANSISTOR >	
D732	8-719-911-19	DIODE 1SS133T-72		Q361	8-729-823-22	TRANSISTOR 2SC3576-AC	
D734	8-719-911-19	DIODE 1SS133T-72		Q362	8-729-823-22	TRANSISTOR 2SC3576-AC	
D735	8-719-911-19	DIODE 1SS133T-72		Q363	8-729-823-22	TRANSISTOR 2SC3576-AC	
D736	8-719-911-19	DIODE 1SS133T-72(DE545,SE501)		Q364	8-729-823-22	TRANSISTOR 2SC3576-AC	
D740	8-719-911-19	DIODE 1SS133T-72		Q365	8-729-823-22	TRANSISTOR 2SC3576-AC	
D757	8-719-911-19	DIODE 1SS133T-72		Q366	8-729-823-22	TRANSISTOR 2SC3576-AC	
D791	8-719-911-19	DIODE 1SS133T-72		Q379	8-729-900-63	TRANSISTOR BN1F4M-TP	
D801	8-719-934-21	DIODE HZS30-1LTA		Q501	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
D802	8-719-072-05	DIODE RBV-602LF-A		Q502	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
D804	8-719-069-68	DIODE RD5.6F-T7		Q503	8-749-010-25	IC MN2488-OPY-M	
D820	8-719-024-99	DIODE 11ES2-NTA2B		Q504	8-749-010-26	IC MP1620-OPY-M	
D821	8-719-024-99	DIODE 11ES2-NTA2B		Q505	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
D822	8-719-024-99	DIODE 11ES2-NTA2B		Q506	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
D823	8-719-024-99	DIODE 11ES2-NTA2B		Q507	8-729-900-63	TRANSISTOR BN1F4M-TP	
D824	8-719-024-99	DIODE 11ES2-NTA2B		Q509	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
D825	8-719-024-99	DIODE 11ES2-NTA2B		Q550	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
D826	8-719-024-99	DIODE 11ES2-NTA2B		Q560	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
D827	8-719-024-99	DIODE 11ES2-NTA2B		Q601	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
D833	8-719-043-76	DIODE AK04V1		Q602	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
D896	8-719-043-76	DIODE AK04V1		Q603	8-749-010-25	IC MN2488-OPY-M	
D898	8-719-024-99	DIODE 11ES2-NTA2B		Q604	8-749-010-26	IC MP1620-OPY-M	
D899	8-719-024-99	DIODE 11ES2-NTA2B		Q605	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
		< TERMINAL >		Q606	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
* G401	1-537-738-21	TERMINAL, EARTH		Q610	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
* G801	1-537-738-21	TERMINAL, EARTH		Q651	8-729-119-76	TRANSISTOR 2SA1115TP-EF	

# MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q652	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R367	1-249-437-11	CARBON 47K 5%	1/4W
Q653	8-749-010-25	IC MN2488-OPY-M		R368	1-249-437-11	CARBON 47K 5%	1/4W
Q654	8-749-010-26	IC MP1620-OPY-M		R369	1-249-429-11	CARBON 10K 5%	1/4W
Q655	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R370	1-249-429-11	CARBON 10K 5%	1/4W
Q656	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R371	1-249-437-11	CARBON 47K 5%	1/4W
Q657	8-729-900-63	TRANSISTOR BN1F4M-TP		R372	1-249-437-11	CARBON 47K 5%	1/4W
Q658	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R373	1-247-807-31	CARBON 100 5%	1/4W
Q659	8-729-900-63	TRANSISTOR BN1F4M-TP		R374	1-247-807-31	CARBON 100 5%	1/4W
Q691	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R375	1-247-807-31	CARBON 100 5%	1/4W
Q692	8-729-900-36	TRANSISTOR BA1F4M-TP		R376	1-247-807-31	CARBON 100 5%	1/4W
Q693	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R377	1-247-807-31	CARBON 100 5%	1/4W
Q694	8-729-900-36	TRANSISTOR BA1F4M-TP		R378	1-247-807-31	CARBON 100 5%	1/4W
Q695	8-729-201-53	TRANSISTOR 2SA1015TP-YGR		R379	1-249-429-11	CARBON 10K 5%	1/4W
Q696	8-729-900-63	TRANSISTOR BN1F4M-TP		R380	1-249-441-11	CARBON 100K 5%	1/4W
Q697	8-729-900-36	TRANSISTOR BA1F4M-TP		R381	1-249-429-11	CARBON 10K 5%	1/4W
Q701	8-729-119-76	TRANSISTOR 2SA1115TP-EF		R401	1-249-417-11	CARBON 1K 5%	1/4W F
Q702	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R402	1-249-417-11	CARBON 1K 5%	1/4W F
Q703	8-749-010-25	IC MN2488-OPY-M		R403	1-249-417-11	CARBON 1K 5%	1/4W F
Q704	8-749-010-26	IC MP1620-OPY-M		R404	1-249-417-11	CARBON 1K 5%	1/4W F
Q705	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R405	1-249-417-11	CARBON 1K 5%	1/4W F
Q706	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R406	1-249-417-11	CARBON 1K 5%	1/4W F
Q707	8-729-900-63	TRANSISTOR BN1F4M-TP		R407	1-249-417-11	CARBON 1K 5%	1/4W F
Q708	8-729-900-63	TRANSISTOR BN1F4M-TP		R408	1-249-417-11	CARBON 1K 5%	1/4W F
Q709	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R409	1-249-417-11	CARBON 1K 5%	1/4W F
Q722	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R410	1-249-417-11	CARBON 1K 5%	1/4W F
Q723	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R411	1-249-417-11	CARBON 1K 5%	1/4W F
Q725	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R412	1-249-437-11	CARBON 47K 5%	1/4W
Q730	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R413	1-249-437-11	CARBON 47K 5%	1/4W
Q740	8-729-119-79	TRANSISTOR 2SC2785TP-FEK (DE545,SE501)		R416	1-249-429-11	CARBON 10K 5%	1/4W
Q747	8-729-900-63	TRANSISTOR BN1F4M-TP		R421	1-249-437-11	CARBON 47K 5%	1/4W
Q748	8-729-900-63	TRANSISTOR BN1F4M-TP		R422	1-249-437-11	CARBON 47K 5%	1/4W
Q751	8-729-119-76	TRANSISTOR 2SA1115TP-EF		R424	1-249-437-11	CARBON 47K 5%	1/4W
Q752	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R425	1-249-437-11	CARBON 47K 5%	1/4W
Q753	8-749-010-25	IC MN2488-OPY-M		R426	1-249-437-11	CARBON 47K 5%	1/4W
Q754	8-749-010-26	IC MP1620-OPY-M		R428	1-249-437-11	CARBON 47K 5%	1/4W
Q755	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R431	1-249-437-11	CARBON 47K 5%	1/4W
Q756	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R432	1-249-437-11	CARBON 47K 5%	1/4W
Q757	8-729-900-63	TRANSISTOR BN1F4M-TP		R433	1-249-437-11	CARBON 47K 5%	1/4W
Q758	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R434	1-249-437-11	CARBON 47K 5%	1/4W
Q759	8-729-900-63	TRANSISTOR BN1F4M-TP		R441	1-249-437-11	CARBON 47K 5%	1/4W
Q791	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R442	1-249-437-11	CARBON 47K 5%	1/4W
Q801	8-729-026-68	TRANSISTOR 2SD2525(TP)		R444	1-249-437-11	CARBON 47K 5%	1/4W
< RESISTOR >				R445	1-249-437-11	CARBON 47K 5%	1/4W
R305	1-249-421-11	CARBON 2.2K 5%	1/4W F (AEP,UK,CIS)	R446	1-249-437-11	CARBON 47K 5%	1/4W
R306	1-247-807-31	CARBON 100 5%	1/4W (AEP,UK,CIS)	R447	1-249-437-11	CARBON 47K 5%	1/4W
R307	1-247-807-31	CARBON 100 5%	1/4W (AEP,UK,CIS)	R451	1-249-417-11	CARBON 1K 5%	1/4W F
R326	1-249-436-11	CARBON 39K 5%	1/4W	R452	1-249-417-11	CARBON 1K 5%	1/4W F
R327	1-249-436-11	CARBON 39K 5%	1/4W	R453	1-249-417-11	CARBON 1K 5%	1/4W F
R328	1-249-433-11	CARBON 22K 5%	1/4W	R454	1-249-417-11	CARBON 1K 5%	1/4W F
R360	1-249-437-11	CARBON 47K 5%	1/4W	R455	1-249-417-11	CARBON 1K 5%	1/4W F
R361	1-249-429-11	CARBON 10K 5%	1/4W	R456	1-249-417-11	CARBON 1K 5%	1/4W F
R362	1-249-429-11	CARBON 10K 5%	1/4W	R457	1-249-417-11	CARBON 1K 5%	1/4W F
R363	1-249-437-11	CARBON 47K 5%	1/4W	R458	1-249-417-11	CARBON 1K 5%	1/4W F
R366	1-249-429-11	CARBON 10K 5%	1/4W	R459	1-249-417-11	CARBON 1K 5%	1/4W F
				R460	1-249-417-11	CARBON 1K 5%	1/4W F
				R461	1-249-417-11	CARBON 1K 5%	1/4W F
				R463	1-249-437-11	CARBON 47K 5%	1/4W
				R464	1-249-437-11	CARBON 47K 5%	1/4W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R465	1-249-437-11	CARBON	47K	5%	1/4W	R540	1-247-881-00	CARBON	120K	5%	1/4W
R466	1-249-429-11	CARBON	10K	5%	1/4W	R541	1-249-431-11	CARBON	15K	5%	1/4W
R467	1-249-437-11	CARBON	47K	5%	1/4W	R573	1-249-437-11	CARBON	47K	5%	1/4W
R468	1-249-437-11	CARBON	47K	5%	1/4W	R601	1-249-417-11	CARBON	1K	5%	1/4W F
R469	1-249-417-11	CARBON	1K	5%	1/4W F	R602	1-249-439-11	CARBON	68K	5%	1/4W
R470	1-249-437-11	CARBON	47K	5%	1/4W	R603	1-249-413-11	CARBON	470	5%	1/4W F
R471	1-249-429-11	CARBON	10K	5%	1/4W						(DE545,SE501)
R472	1-249-429-11	CARBON	10K	5%	1/4W	R603	1-249-415-11	CARBON	680	5%	1/4W F
R473	1-249-421-11	CARBON	2.2K	5%	1/4W F						(DE445)
R474	1-249-429-11	CARBON	10K	5%	1/4W	R604	1-249-439-11	CARBON	68K	5%	1/4W
R475	1-249-429-11	CARBON	10K	5%	1/4W	R610	1-249-421-11	CARBON	2.2K	5%	1/4W F
R476	1-249-429-11	CARBON	10K	5%	1/4W	R611	1-249-440-11	CARBON	82K	5%	1/4W
R477	1-249-429-11	CARBON	10K	5%	1/4W	R613	1-249-414-11	CARBON	560	5%	1/4W F
R478	1-249-429-11	CARBON	10K	5%	1/4W	R614	1-249-408-11	CARBON	180	5%	1/4W F
R479	1-249-429-11	CARBON	10K	5%	1/4W	R615	1-249-408-11	CARBON	180	5%	1/4W F
R480	1-247-843-11	CARBON	3.3K	5%	1/4W	R616	1-234-182-11	ENCAPSULATED COMPONENT			
R481	1-249-429-11	CARBON	10K	5%	1/4W	R617	1-249-393-11	CARBON	10	5%	1/4W F
R482	1-247-843-11	CARBON	3.3K	5%	1/4W	R618	1-249-389-11	CARBON	4.7	5%	1/4W F
R483	1-249-429-11	CARBON	10K	5%	1/4W	R620	1-249-425-11	CARBON	4.7K	5%	1/4W F
R484	1-247-843-11	CARBON	3.3K	5%	1/4W	R621	1-247-850-11	CARBON	6.2K	5%	1/4W
R485	1-249-429-11	CARBON	10K	5%	1/4W	R622	1-249-419-11	CARBON	1.5K	5%	1/4W F
R486	1-247-843-11	CARBON	3.3K	5%	1/4W	R623	1-249-437-11	CARBON	47K	5%	1/4W
R487	1-249-437-11	CARBON	47K	5%	1/4W	R625	1-247-881-00	CARBON	120K	5%	1/4W
R488	1-249-437-11	CARBON	47K	5%	1/4W	R626	1-249-431-11	CARBON	15K	5%	1/4W
R489	1-249-437-11	CARBON	47K	5%	1/4W	R630	1-249-425-11	CARBON	4.7K	5%	1/4W F
R490	1-249-437-11	CARBON	47K	5%	1/4W	R631	1-249-425-11	CARBON	4.7K	5%	1/4W F
R491	1-249-437-11	CARBON	47K	5%	1/4W	R638	1-247-881-00	CARBON	120K	5%	1/4W
R492	1-249-437-11	CARBON	47K	5%	1/4W	R651	1-249-417-11	CARBON	1K	5%	1/4W F
R499	1-249-437-11	CARBON	47K	5%	1/4W	R652	1-249-439-11	CARBON	68K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W F	R653	1-249-413-11	CARBON	470	5%	1/4W F
R502	1-249-439-11	CARBON	68K	5%	1/4W						(DE545,SE501)
R503	1-249-413-11	CARBON	470	5%	1/4W F	R653	1-249-415-11	CARBON	680	5%	1/4W F
R503	1-249-415-11	CARBON	680	5%	1/4W F						(DE445)
R504	1-249-411-11	CARBON	330	5%	1/4W	R654	1-249-439-11	CARBON	68K	5%	1/4W
R505	1-249-439-11	CARBON	68K	5%	1/4W	R660	1-249-421-11	CARBON	2.2K	5%	1/4W F
R507	1-249-433-11	CARBON	22K	5%	1/4W	R661	1-249-440-11	CARBON	82K	5%	1/4W
R510	1-249-421-11	CARBON	2.2K	5%	1/4W F	R663	1-249-414-11	CARBON	560	5%	1/4W F
R511	1-249-437-11	CARBON	47K	5%	1/4W	R664	1-249-408-11	CARBON	180	5%	1/4W F
R513	1-249-414-11	CARBON	560	5%	1/4W F	R665	1-249-408-11	CARBON	180	5%	1/4W F
R514	1-249-408-11	CARBON	180	5%	1/4W F	R666	1-234-182-11	ENCAPSULATED COMPONENT			
R515	1-249-408-11	CARBON	180	5%	1/4W F	R667	1-249-393-11	CARBON	10	5%	1/4W F
R516	1-234-182-11	ENCAPSULATED COMPONENT				R668	1-249-389-11	CARBON	4.7	5%	1/4W F
R517	1-249-393-11	CARBON	10	5%	1/4W F	R670	1-249-425-11	CARBON	4.7K	5%	1/4W F
R520	1-249-425-11	CARBON	4.7K	5%	1/4W F	R671	1-247-850-11	CARBON	6.2K	5%	1/4W
R521	1-249-417-11	CARBON	1K	5%	1/4W F	R672	1-249-419-11	CARBON	1.5K	5%	1/4W F
R522	1-249-419-11	CARBON	1.5K	5%	1/4W F	R674	1-247-866-11	CARBON	30K	5%	1/4W
R528	1-249-389-11	CARBON	4.7	5%	1/4W F	R675	1-249-422-11	CARBON	2.7K	5%	1/4W F
R529	1-247-866-11	CARBON	30K	5%	1/4W						(AEP,UK,CIS)
R530	1-249-425-11	CARBON	4.7K	5%	1/4W F	R675	1-249-421-11	CARBON	2.2K	5%	1/4W F
R531	1-249-425-11	CARBON	4.7K	5%	1/4W F						(EXCEPT AEP,UK,CIS)
R532	1-249-425-11	CARBON	4.7K	5%	1/4W F	R676	1-249-431-11	CARBON	15K	5%	1/4W
R533	1-249-437-11	CARBON	47K	5%	1/4W	R677	1-249-433-11	CARBON	22K	5%	1/4W
R535	1-249-431-11	CARBON	15K	5%	1/4W	R678	1-249-433-11	CARBON	22K	5%	1/4W
R539	1-249-422-11	CARBON	2.7K	5%	1/4W F	R683	1-249-437-11	CARBON	47K	5%	1/4W
					(AEP,UK,CIS)	R684	1-249-431-11	CARBON	15K	5%	1/4W
R539	1-249-421-11	CARBON	2.2K	5%	1/4W F	R691	1-215-888-00	METAL OXIDE	220	5%	2W
					(EXCEPT AEP,UK,CIS)	R692	1-215-885-00	METAL OXIDE	68	5%	2W
						R693	1-216-456-00	METAL OXIDE	820	5%	2W
						R694	1-216-456-00	METAL OXIDE	820	5%	2W

# MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R696	1-249-405-11	CARBON	100 5% 1/4W F	R761	1-249-440-11	CARBON	82K 5% 1/4W
R697	1-249-441-11	CARBON	100K 5% 1/4W	R763	1-249-414-11	CARBON	560 5% 1/4W F
R698	1-249-441-11	CARBON	100K 5% 1/4W	R764	1-249-408-11	CARBON	180 5% 1/4W F
R699	1-215-888-00	METAL OXIDE	220 5% 2W	R765	1-249-408-11	CARBON	180 5% 1/4W F
R701	1-249-417-11	CARBON	1K 5% 1/4W F	R766	1-234-182-11	ENCAPSULATED COMPONENT	
R702	1-249-439-11	CARBON	68K 5% 1/4W	R767	1-249-393-11	CARBON	10 5% 1/4W F
R703	1-249-413-11	CARBON	470 5% 1/4W F	R768	1-249-389-11	CARBON	4.7 5% 1/4W F
			(DE545,SE501)	R770	1-249-425-11	CARBON	4.7K 5% 1/4W F
R703	1-249-415-11	CARBON	680 5% 1/4W F	R771	1-247-850-11	CARBON	6.2K 5% 1/4W
			(DE445)	R772	1-249-419-11	CARBON	1.5K 5% 1/4W F
R704	1-249-439-11	CARBON	68K 5% 1/4W				
R705	1-249-441-11	CARBON	100K 5% 1/4W	R775	1-249-422-11	CARBON	2.7K 5% 1/4W F
							(AEP,UK,CIS)
R710	1-249-421-11	CARBON	2.2K 5% 1/4W F	R775	1-249-421-11	CARBON	2.2K 5% 1/4W F
R711	1-249-440-11	CARBON	82K 5% 1/4W				(EXCEPT AEP,UK,CIS)
R713	1-249-414-11	CARBON	560 5% 1/4W F	R776	1-249-431-11	CARBON	15K 5% 1/4W
R714	1-249-408-11	CARBON	180 5% 1/4W F	R777	1-247-866-11	CARBON	30K 5% 1/4W
R715	1-249-408-11	CARBON	180 5% 1/4W F	R778	1-249-431-11	CARBON	15K 5% 1/4W
R716	1-234-182-11	ENCAPSULATED COMPONENT		R779	1-249-437-11	CARBON	47K 5% 1/4W
R717	1-249-393-11	CARBON	10 5% 1/4W F	R791	1-215-868-00	METAL OXIDE	680 5% 1W
R718	1-249-389-11	CARBON	4.7 5% 1/4W F	R793	1-249-425-11	CARBON	4.7K 5% 1/4W F
R719	1-249-425-11	CARBON	4.7K 5% 1/4W F	R799	1-215-868-00	METAL OXIDE	680 5% 1W
R721	1-247-850-11	CARBON	6.2K 5% 1/4W	R800	1-249-400-11	CARBON	39 5% 1/4W F
R722	1-249-419-11	CARBON	1.5K 5% 1/4W F	R801	1-249-381-11	CARBON	1 5% 1/4W F
R723	1-249-437-11	CARBON	47K 5% 1/4W	R802	1-249-381-11	CARBON	1 5% 1/4W F
R724	1-247-881-00	CARBON	120K 5% 1/4W	R803	1-249-400-11	CARBON	39 5% 1/4W F
R727	1-249-433-11	CARBON	22K 5% 1/4W	R804	1-249-427-11	CARBON	6.8K 5% 1/4W F
R730	1-249-425-11	CARBON	4.7K 5% 1/4W F	R805	1-249-433-11	CARBON	22K 5% 1/4W
R731	1-249-425-11	CARBON	4.7K 5% 1/4W F	△ R810	1-240-877-11	FUSIBLE	0.15 5% 1/2W
R732	1-249-381-11	CARBON	1 5% 1/4W F	△ R811	1-240-877-11	FUSIBLE	0.15 5% 1/2W
R733	1-249-381-11	CARBON	1 5% 1/4W F	△ R812	1-243-635-91	FUSIBLE	0.33 5% 1/2W
R735	1-249-427-11	CARBON	6.8K 5% 1/4W F	△ R813	1-240-877-11	FUSIBLE	0.15 5% 1/2W
R736	1-249-417-11	CARBON	1K 5% 1/4W F				
R737	1-249-436-11	CARBON	39K 5% 1/4W				
R738	1-247-881-00	CARBON	120K 5% 1/4W				
R739	1-249-431-11	CARBON	15K 5% 1/4W				
R740	1-247-866-11	CARBON	30K 5% 1/4W				
R741	1-249-425-11	CARBON	4.7K 5% 1/4W F				
			(DE545,SE501)				
R743	1-249-433-11	CARBON	22K 5% 1/4W				
R744	1-249-431-11	CARBON	15K 5% 1/4W				
R745	1-249-422-11	CARBON	2.7K 5% 1/4W F				
			(AEP,UK,CIS)				
R745	1-249-421-11	CARBON	2.2K 5% 1/4W F				
			(EXCEPT AEP,UK,CIS)				
R746	1-249-433-11	CARBON	22K 5% 1/4W				
R747	1-249-433-11	CARBON	22K 5% 1/4W				
R748	1-249-437-11	CARBON	47K 5% 1/4W				
R749	1-249-425-11	CARBON	4.7K 5% 1/4W F				
			(DE545,SE501)				
R751	1-249-417-11	CARBON	1K 5% 1/4W F				
R752	1-249-439-11	CARBON	68K 5% 1/4W				
R753	1-249-413-11	CARBON	470 5% 1/4W F				
			(DE545,SE501)				
R753	1-249-415-11	CARBON	680 5% 1/4W F				
			(DE445)				
R754	1-249-439-11	CARBON	68K 5% 1/4W				
R760	1-249-421-11	CARBON	2.2K 5% 1/4W F				

## < RESISTOR >

RR11	1-249-393-11	CARBON	10 5% 1/4W F
			(EXCEPT E,PX)
RR12	1-249-393-11	CARBON	10 5% 1/4W F
			(EXCEPT E,PX)
RR13	1-249-393-11	CARBON	10 5% 1/4W F
			(EXCEPT E,PX)
RR14	1-249-393-11	CARBON	10 5% 1/4W F
			(EXCEPT E,PX)
RR15	1-249-393-11	CARBON	10 5% 1/4W F
			(EXCEPT E,PX)
RR21	1-249-393-11	CARBON	10 5% 1/4W F
			(EXCEPT DE445,E,PX)
RR22	1-249-393-11	CARBON	10 5% 1/4W F
			(EXCEPT DE445,E,PX)
RR448	1-249-437-11	CARBON	47K 5% 1/4W

## < RELAY >

RY550	1-755-170-11	RELAY (12V)
RY560	1-755-267-11	RELAY
RY601	1-755-170-11	RELAY (12V)
RY730	1-755-170-11	RELAY (12V)
RY740	1-755-170-11	RELAY (12V)(DE545,SE501)
RY791	1-515-614-11	RELAY

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.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark	
		< SWITCH >					< CONNECTOR >		
S501	1-771-692-11	SWITCH, SLIDE(IMPEDANCE SELECTOR) (DE545,SE501)			CNP901	1-564-321-00	PIN, CONNECTOR 2P		
		< TERMINAL >			* CNP902	1-565-792-11	PIN, CONNECTOR 2P		
TM601	1-537-923-11	TERMINAL BOARD (SPEAKER) (6P) (REAR,CENTER)			CNP906	1-568-106-11	PIN, CONNECTOR 4P(E,PX)		
TM602	1-694-652-11	TERMINAL BOARD (SP)(FRONT)(DE545,SE501)			CNP912	1-691-767-11	PLUG (MICRO CONNECTOR) 5P		
TM602	1-537-925-61	TERMINAL BOARD(FRONT)(DE445)					< DIODE >		
		< VIBRATOR >			D901	8-719-911-19	DIODE 1SS133T-72		
X301	1-579-900-21	VIBRATOR, CRYSTAL 4.33MHz(AEP,UK,CIS)			D910	8-719-024-99	DIODE 11ES2-NTA2B		
*****					D911	8-719-024-99	DIODE 11ES2-NTA2B		
	1-676-784-11	POWER SWITCH BOARD			D912	8-719-024-99	DIODE 11ES2-NTA2B		
		*****			D913	8-719-024-99	DIODE 11ES2-NTA2B		
		< CONNECTOR >					< FUSE >		
CNS100	1-573-105-11	CONNECTOR, PC BOARD 4P			△ F901	1-532-504-31	FUSE T4AL 250V(EXCEPT US,CND,TW)		
		< SWITCH >			△ F901	1-576-193-11	FUSE 6.3A/125V(US,CND,TW)		
S150	1-771-410-21	SWITCH, TACTILE(Ⅱ/㇏)			△ F902	1-532-464-31	FUSE T2.5AL 250V(EXCEPT US,CND,TW,E,PX)		
S151	1-771-854-11	SWITCH, PUSH (1 KEY)(SPEAKER A)					< TERMINAL >		
S152	1-771-854-11	SWITCH, PUSH (1 KEY)(SPEAKER B) (DE545,SE501)			* G901	1-537-738-21	TERMINAL, EARTH		
*****							< IC >		
	A-4428-435-A	STBY BOARD, COMPLETE (US,CND)			IC950	8-759-333-83	IC NJM2103D		
		*****					< JACK >		
	A-4428-478-A	STBY BOARD, COMPLETE (E,PX)			△ J911	1-785-285-11	OUTLET, AC (1P)(AC OUTLET) (DE545:AEP,UK,CIS,SP,MY)		
		*****			△ J911	1-251-417-11	OUTLET, A.C.(AC OUTLET)(DE545:AUS)		
	A-4428-481-A	STBY BOARD, COMPLETE (AEP,UK,CIS,SP,MY)			△ J911	1-785-834-11	OUTLET (1P)(AC OUTLET) (DE545:US,CND,CH,TW,E,PX,SE501)		
		*****					< TRANSISTOR >		
	A-4428-491-A	STBY BOARD, COMPLETE (AUS)			Q901	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		
		*****			Q951	8-729-045-21	TRANSISTOR 2SD1513TP-LK		
	A-4428-497-A	STBY BOARD, COMPLETE (CH)					< RESISTOR >		
		*****			R901	1-202-725-00	SOLID 3.3M 10% 1/2W (US,CND)		
	A-4473-334-A	STBY BOARD, COMPLETE (TW)			R902	1-249-437-11	CARBON 47K 5% 1/4W		
		*****			R903	1-249-425-11	CARBON 4.7K 5% 1/4W F		
1-533-293-11	FUSE HOLDER				R950	1-249-421-11	CARBON 2.2K 5% 1/4W F		
1-533-223-11	HOLDER, FUSE				R951	1-249-428-11	CARBON 8.2K 5% 1/4W F		
		< CAPACITOR >			R952	1-249-422-11	CARBON 2.7K 5% 1/4W F		
C922	1-164-159-11	CERAMIC 0.1uF 50V			R953	1-249-433-11	CARBON 22K 5% 1/4W		
C923	1-164-159-11	CERAMIC 0.1uF 50V			R954	1-249-437-11	CARBON 47K 5% 1/4W		
C950	1-126-936-11	ELECT 3300uF 20.00% 16V			R955	1-249-429-11	CARBON 10K 5% 1/4W		
C951	1-164-159-11	CERAMIC 0.1uF 50V			R956	1-247-843-11	CARBON 3.3K 5% 1/4W		
C952	1-126-960-11	ELECT 1uF 20.00% 50V			R957	1-249-417-11	CARBON 1K 5% 1/4W F		
C953	1-126-957-11	ELECT 0.22uF 20.00% 50V			R960	1-249-431-11	CARBON 15K 5% 1/4W		
C954	1-126-964-11	ELECT 10uF 20.00% 50V					< RELAY >		
C955	1-164-159-11	CERAMIC 0.1uF 50V			RY901	1-755-298-11	RELAY		
C957	1-164-159-11	CERAMIC 0.1uF 50V							
C958	1-164-159-11	CERAMIC 0.1uF 50V							

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STBY

S-VIDEO

TUNER

VIDEO

Ref. No.	Part No.	Description	Remark		
< TRANSFORMER >					
△ T902	1-435-435-11	TRANSFORMER, POWER	(CH,AEP,UK,CIS,SP,MY,AUS)		
△ T902	1-435-563-11	TRANSFORMER, POWER(TW)			
△ T902	1-435-434-11	TRANSFORMER, POWER(E,PX)			
△ T902	1-435-436-11	TRANSFORMER, POWER	(DE445/DE545:US,CND,AEP,UK,CIS,SP,MY,SE501)		
*****					
	1-676-782-11	S-VIDEO BOARD (DE545,SE501)	*****		
< CAPACITOR >					
C1501	1-126-964-11	ELECT	10uF	20.00%	50V (DE545,SE501)
C1502	1-164-159-11	CERAMIC	0.1uF		50V (DE545,SE501)
C1503	1-126-964-11	ELECT	10uF	20.00%	50V (DE545,SE501)
C1504	1-164-159-11	CERAMIC	0.1uF		50V (DE545,SE501)
C1505	1-136-165-00	MYLAR	0.1uF	5.00%	50V (DE545,SE501)
C1506	1-126-960-11	ELECT	1uF	20.00%	50V (DE545,SE501)
C1507	1-128-817-11	CERAMIC	470PF	5%	50V (DE545,SE501)
C1508	1-128-817-11	CERAMIC	470PF	5%	50V (DE545,SE501)
< CONNECTOR >					
CNS200	1-569-315-11	SOCKET, CONNECTOR 5P	(DE545,SE501)		
< IC >					
IC1016	8-759-333-84	IC NJM2279D	(DE545,SE501)		
< JACK >					
J1002	1-537-943-11	TERMINAL, S(MONITOR S VIDEO OUT)	(DE545,SE501)		
J1003	1-537-943-11	TERMINAL, S(DVD/LD S VIDEO IN)	(DE545,SE501)		
< RESISTOR >					
R1502	1-247-804-11	CARBON	75	5%	1/4W (DE545,SE501)
R1503	1-247-804-11	CARBON	75	5%	1/4W (DE545,SE501)
R1504	1-247-804-11	CARBON	75	5%	1/4W (DE545,SE501)
R1505	1-247-804-11	CARBON	75	5%	1/4W (DE545,SE501)
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Ref. No.	Part No.	Description	Remark		
	1-676-785-11	TUNER SWITCH BOARD			
		*****			
		< CONNECTOR >			
CNS110	1-573-105-11	CONNECTOR, PC BOARD 4P			
		< DIODE >			
D001	8-719-046-39	DIODE SEL5821A-TP15(MUTING)			
		< RESISTOR >			
R001	1-249-411-11	CARBON	330	5%	1/4W
R002	1-249-413-11	CARBON	470	5%	1/4W F
R003	1-249-415-11	CARBON	680	5%	1/4W F
R004	1-249-417-11	CARBON	1K	5%	1/4W F
R005	1-249-419-11	CARBON	1.5K	5%	1/4W F
R006	1-249-421-11	CARBON	2.2K	5%	1/4W F
R007	1-247-843-11	CARBON	3.3K	5%	1/4W
R008	1-249-425-11	CARBON	4.7K	5%	1/4W F
R009	1-249-429-11	CARBON	10K	5%	1/4W (AEP,UK,CIS)
R017	1-247-843-11	CARBON	3.3K	5%	1/4W (AEP,UK,CIS)
R018	1-249-425-11	CARBON	4.7K	5%	1/4W F
R019	1-249-429-11	CARBON	10K	5%	1/4W
R051	1-249-407-11	CARBON	150	5%	1/4W F
		< SWITCH >			
S100	1-771-410-21	SWITCH, TACTILE(SHIFT)			
S101	1-771-410-21	SWITCH, TACTILE(BASS BOOST)			
S102	1-771-410-21	SWITCH, TACTILE(MUTING)			
S103	1-771-410-21	SWITCH, TACTILE(FM MODE)			
S104	1-771-410-21	SWITCH, TACTILE(PRESET +)			
S105	1-771-410-21	SWITCH, TACTILE(TUNING -)			
S106	1-771-410-21	SWITCH, TACTILE(MEMORY)			
S107	1-771-410-21	SWITCH, TACTILE(TONE)			
S108	1-771-410-21	SWITCH, TACTILE(PHY)(AEP,UK,CIS)			
S109	1-771-410-21	SWITCH, TACTILE(RDS EON)(AEP,UK,CIS)			
S117	1-771-410-21	SWITCH, TACTILE(PRESET -)			
S118	1-771-410-21	SWITCH, TACTILE(TUNING +)			
S119	1-771-410-21	SWITCH, TACTILE(AM/FM)			

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1-676-781-11 VIDEO BOARD

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< CAPACITOR >

C1602	1-164-159-11	CERAMIC	0.1uF		50V
C1603	1-126-964-11	ELECT	10uF	20.00%	50V
C1604	1-164-159-11	CERAMIC	0.1uF		50V
C1605	1-128-805-11	CERAMIC	47PF	5%	50V
C1606	1-128-805-11	CERAMIC	47PF	5%	50V
C1607	1-126-960-11	ELECT	1uF	20.00%	50V
C1608	1-126-960-11	ELECT	1uF	20.00%	50V
C1609	1-126-960-11	ELECT	1uF	20.00%	50V
C1610	1-164-159-11	CERAMIC	0.1uF		50V

(DE545,SE501)

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Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark
C1611	1-126-965-11	ELECT	22uF	20.00% 50V			MISCELLANEOUS	
C1612	1-126-964-11	ELECT	10uF	20.00% 50V			*****	
		< CONNECTOR >						
CNS107	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			△ 59	1-696-847-11	CORD, POWER(AUS)	
* CNS500	1-564-506-11	PLUG, CONNECTOR 3P			△ 59	1-777-070-21	CORD, POWER(CND)	
		< CONNECTOR >			△ 59	1-777-071-21	CORD, POWER(AEP,UK,CIS,SP,MY,E,PX)	
		< DIODE >			△ 59	1-783-205-11	CORD, POWER(CH)	
		< IC >			△ 59	1-783-820-11	CORD, POWER(TW,US)	
CNP201	1-569-315-11	SOCKET, CONNECTOR 5P(DE545,SE501)			63	1-769-840-11	WIRE (FLAT TYPE) (5 CORE)(DE545,SE501)	
D1001	8-719-921-48	DIODE MTZJ-T-72-5.6C(DE545,SE501)			66	1-693-407-41	TUNER(TW,US,CND,E,PX)	
		< JACK >			66	1-693-408-41	TUNER(CH,AEP,UK,CIS,SP,MY,AUS)	
IC1014	8-759-701-65	IC NJM79M05FA			67	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)	
IC1015	8-759-333-84	IC NJM2279D			△ 68	1-569-008-21	ADAPTOR, CONVERSION 2P(E,PX)	
		< RESISTOR >			70	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
J1004	1-695-317-11	JACK, PIN 2P(VIDEO IN,MONITOR OUT)			FL101	1-517-929-11	TUBE, FLUORESCENT INDICATOR	
J1006	1-766-199-11	JACK, PIN 3P(TV/SAT,DVD/LD,VIDEO OUT)			△ T901	1-435-306-11	TRANSFORMER, POWER(DE545:US)	
J1007	1-563-330-11	JACK(CTRL A1 II)(DE545,SE501)			△ T901	1-435-306-21	TRANSFORMER, POWER(SE501)	
		< RESISTOR >			△ T901	1-435-307-11	TRANSFORMER, POWER(DE545:CND)	
R1601	1-247-804-11	CARBON	75	5% 1/4W	△ T901	1-435-308-11	TRANSFORMER, POWER(DE545:AUS)	
R1602	1-247-804-11	CARBON	75	5% 1/4W	△ T901	1-435-309-11	TRANSFORMER, POWER (DE545:CH,AEP,UK,CIS,SP,MY)	
R1603	1-247-804-11	CARBON	75	5% 1/4W	△ T901	1-435-310-11	TRANSFORMER, POWER(DE545:E,PX)	
R1604	1-247-804-11	CARBON	75	5% 1/4W	△ T901	1-435-312-11	TRANSFORMER, POWER(DE445:CND)	
R1605	1-247-804-11	CARBON	75	5% 1/4W	△ T901	1-435-313-11	TRANSFORMER, POWER(DE445:US)	
*****					△ T901	1-435-314-11	TRANSFORMER, POWER(DE445:AEP,UK,CIS)	
					△ T901	1-435-562-11	TRANSFORMER, POWER(DE545:TW)	
					*****			

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以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		*****	
	1-418-833-11	REMOTE COMMANDER(RM-U304)(DE445)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM)	
		(DE545:CH,AEP,UK,CIS,SP,MY,AUS)	
	1-793-184-21	CONNECTOR (F TYPE ADAPTOR)	
		(TW,US,CND,E,PX,SE501)	
	3-866-670-11	MANUAL, COMMONNESS INSTRUCTION	
		(ENGLISH)(DE445:US,DE545:TW,AUS,SE501)	
	3-866-670-21	MANUAL, COMMONNESS INSTRUCTION	
		(ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH)	
		(CND,AEP,UK,CIS,SP,MY,E,PX)	
	3-866-670-31	MANUAL, COMMONNESS INSTRUCTION	
		(DANISH,FINNISH,SWEDISH)(CIS)	
	3-866-670-41	MANUAL, COMMONNESS INSTRUCTION	
		(ENGLISH,ARABIC,CHINESE)(CH)	
	3-866-670-51	MANUAL, COMMONNESS INSTRUCTION	
		(ENGLISH,POLISH,RUSSIAN)(CIS)	
	4-227-692-11	MANUAL, INSTRUCTION(RM-PP404)(ENGLISH)	
		(EXCEPT DE445,DE545:CIS)	
	4-227-692-21	MANUAL, INSTRUCTION(RM-PP404)	
		(FRENCH,SPANISH)(DE545:CND,AEP,UK,E,PX)	
	4-227-692-31	MANUAL, INSTRUCTION(RM-PP404)(CHINESE)	
		(DE545:CH,TW,SP,MY,E,PX)	
	4-227-692-41	MANUAL, INSTRUCTION(RM-PP404)	
		(ENGLISH,POLISH,RUSSIAN)(DE545:CIS)	
	4-227-692-61	MANUAL, INSTRUCTION(RM-PP404)	
		(DUTCH,SWEDISH,GERMAN,ITALISH,POTUGUESE)	
		(DE545:AEP,UK)	
	4-227-692-71	MANUAL, INSTRUCTION(RM-PP404)	
		(GREEK,TURKISH)(DE545:CIS)	
	4-227-987-11	INSTRUCTION MANUAL(ENGLISH)(US)	
	4-227-987-21	INSTRUCTION MANUAL	
		(ENGLISH,FRENCH,SPANISH,CHINESE)	
		(CND,SP,MY,E,PX,AUS)	
	4-227-987-31	INSTRUCTION MANUAL	
		(ENGLISH,CHINESE)(CH,TW)	
	4-227-987-41	INSTRUCTION MANUAL	
		(ENGLISH,FRENCH,DUTCH,SWEDISH)(AEP,UK)	
	4-227-987-51	INSTRUCTION MANUAL	
		(GERMAN,SPANISH,ITALIAN,POTUGUESE)(AEP,UK)	
	4-227-987-61	INSTRUCTION MANUAL	
		(DANISH,FINNISH)(AEP,UK)	
	4-227-987-71	INSTRUCTION MANUAL	
		(ENGLISH,RUSSIAN,POLISH)(CIS)	
	4-227-987-81	INSTRUCTION MANUAL(GREEK,TURKISH)(CIS)	
	4-228-696-01	COVER, BATTERY(FOR RM-U304)(DE445)	
	4-978-977-01	COVER, BATTERY(FOR RM-PP404)	
		(DE545,SE501)	
	8-917-423-90	REMOTE COMMANDER RM-PP404 SET	
		(DE545,SE501)	
		*****	

Ref. No.	Part No.	Description	Remark
		*****	
		HARDWARE LIST	
		*****	
#1	7-685-646-79	SCREW +BVTP 3X8	TYPE2 IT-3
#2	7-685-646-91	SCREW +BVTP 3X8	TYPE2 TT(B)
#3	7-685-645-79	SCREW +BVTP 3X6	TYPE2 N-S
#4	7-685-881-09	SCREW +BVTT 4X8	(S)