

STR-DE245/DE345

SERVICE MANUAL

Ver 1.0 2000. 02



Photo: STR-DE345

AEP Model

UK Model

E Model

Australian Model

STR-DE245/DE345

US Model

Canadian Model

Chinese Model

PX Model

STR-DE345

Manufactured under license from Dolby Laboratories Licensing Corporation.

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SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20–20,000 Hz rated 100 watts per channel minimum RMS power, with no more than 0.09% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Rated Power Output at Stereo Mode
(8 Ω at 20 Hz – 20 kHz,
THD 0.09 %)
100W + 100W

Reference Power Output
(8Ω at 1 kHz, THD 0.7%)
Front: 100 W + 100 W
Center: 100 W
Rear: 100 W + 100 W

Frequency response
TV/SAT, CD, MD/TAPE,
VIDEO, 5.1CH/DVD
10 – 50 kHz $^{+0.5}_{-2.0}$ dB

Inputs

	Sensitivity	Impedance	S/N
CD, 5.1CH/ DVD, MD/TAPE, TV/SAT, VIDEO	150 mV	50 kilohms	85 dB

Outputs

MD/TAPE REC OUT:	
Voltage: 150 mV,	
Impedance: 10 kilohms	
VIDEO AUDIO OUT:	
Voltage: 150 mV,	
Impedance: 10 kilohms	
SUB WOOFER:	
Voltage: 2 V	
Impedance: 1 kilohms	
PHONES: Accepts low	
and high impedance	
headphones	
Muting	Full mute
BASS BOOST	+6 dB at 70 Hz
TONE	± 6 dB at 100 Hz and 10 kHz

Tuner section

FM Stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna terminals	75 Ω, unbalanced
Intermediate frequency	10.7 MHz
Sensitivity	Mono: 18.3 dBf, 4.5 μV Stereo: 38.3 dBf, 45 μV
Usable sensitivity	11.2 dBf, 2 μV (IHF)
S/N	Mono: 76 dB Stereo: 70 dB
Harmonic	Mono: 0.3 % Stereo: 0.5 %
distortion at 1 kHz	45 dB at 1 kHz
Separation	30 Hz – 15 kHz $^{+0.5}_{-2.0}$ dB
Frequency response	60 dB at 400 kHz
Selectivity	

AM tuner section

Tuning range	10 kHz interval*
	530 – 1,710 kHz
9 kHz interval	531 – 1,710 kHz
Antenna	Loop antenna
Intermediate frequency	450 kHz
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5 % (50 mV/m, 400 Hz)
Selectivity	At 10 kHz: 40 dB At 9 kHz: 35 dB

* You can change the AM tuning interval between 9 kHz and 10 kHz. Turn off the receiver and press the I/O (power) for more than 4 seconds until "INITIAL" appears.

- 1) After turning in any AM station, turn off the receiver.
- 2) Hold down PRESET TUNING + button and press the I/O (power) button .
"9 k STEP" appears.

To change to 10 k Step, repeat step 1 and 2 until "10 k STEP" appears. Note that all preset stations, index names and sound field are cleared after you make the procedure above.

— Continued on next page —

FM STEREO FM-AM RECEIVER

SONY®

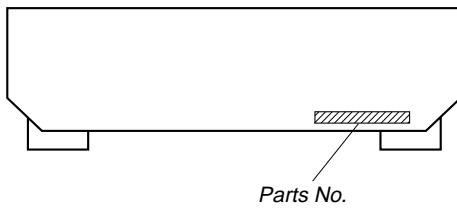
VIDEO section

Inputs VIDEO, TV/SAT, 5.1CH/DVD:
1 Vp-p 75 Ω
Outputs VIDEO, MONITOR:
1 Vp-p 75 Ω

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 120 V AC, 60 Hz
Power consumption 235 W
Dimensions 17 × 5⁶/₈ × 12 inches
(430 × 145 × 304 mm)
Mass (Aporox.) 7.3 kg (16 lb 2 oz)
Supplied accessories FM wire antenna (1)
AM loop antenna (1)
Remote commander (remote) (1)
Size AA (R6) batteries (2)
Operating Instructions of the remote RM-PP404

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION**— BACK PANEL —**

MODEL	PARTS No.
DE345: US model	4-226-462-0□
DE345: Canadian model	4-226-462-1□
DE345: Australian model	4-226-462-2□
DE345: Singapore, Malaysia model	4-226-462-3□
DE345: Chinese model	4-226-462-4□
DE345: E, Saudi Arabia, PX model	4-226-462-5□
DE345: AEP model	4-226-462-6□
DE345: Russian, East European model	4-226-462-7□
DE345: Mexican model	4-226-462-8□
DE345: Argentine model	4-226-462-9□
DE245: Australian model	4-226-468-2□
DE245: Singapore, Malaysia model	4-226-468-3□
DE245: E, Saudi Arabia model	4-226-468-4□
DE245: AEP, UK model	4-226-468-5□
DE245: Mexican, Russian, East European model	4-226-468-6□

SAFETY CHECK-OUT

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)

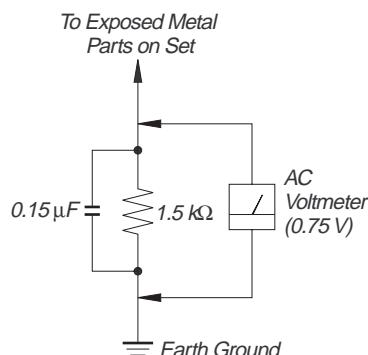


Fig. A. Using an AC voltmeter to check AC leakage.

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.

TABLE OF CONTENTS

1. GENERAL	4
2. TEST MODE	6
3. DIAGRAMS	
3-1. Block Diagram	7
3-2. IC Block Diagrams	8
3-3. IC Pin Function Description	8
3-4. Circuit Boards Location	9
3-5. Printed Wiring Board Main Section	10
3-6. Schematic Diagram Main Section (1/3)	11
3-7. Schematic Diagram Main Section (2/3)	12
3-8. Schematic Diagram Main Section (3/3)	13
3-9. Printed Wiring Board Panel Section	14
3-10. Schematic Diagram Panel Section	15
3-11. Printed Wiring Board Power Section	16
3-12. Schematic Diagram Power Section	17
3-13. Printed Wiring Board Video Section	18
3-14. Schematic Diagram Video Section	18
4. EXPLODED VIEWS	
4-1. Front Panel Section	19
4-2. Chassis Section	20
5. ELECTRICAL PARTS LIST	21

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS 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 SUPPÉMENTS PUBLIÉS PAR SONY.

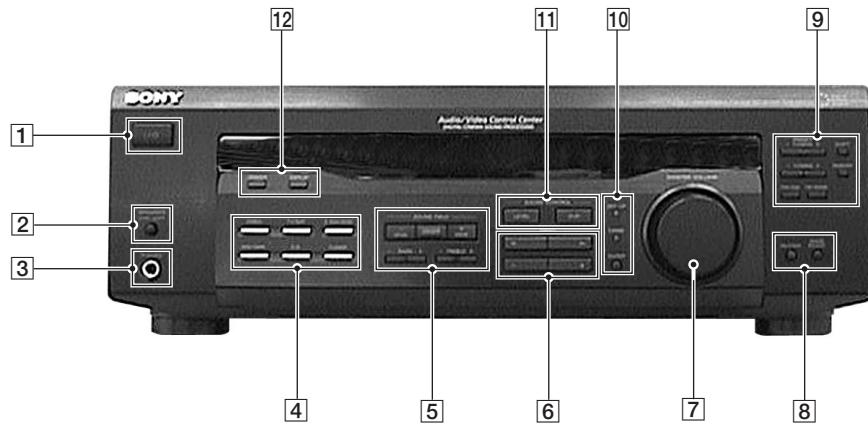
与安全有关的零部件须知

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。

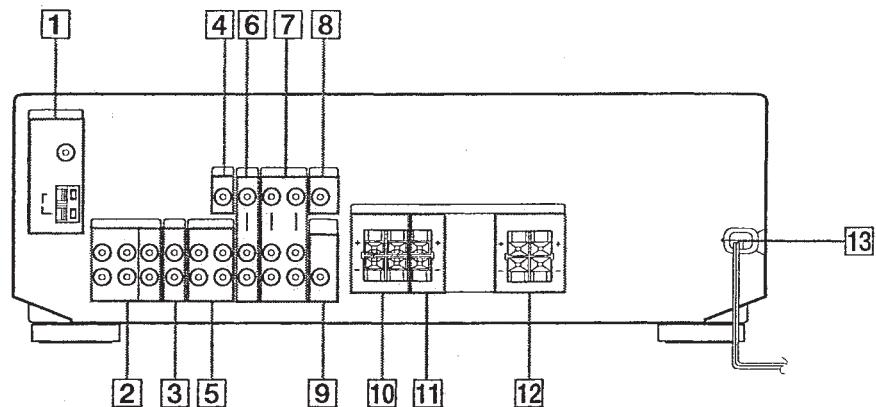
SECTION 1 GENERAL

Front Panel



- 1** I/O (POWER) button
- 2** SPEAKERS ON/OFF SWITCH button
- 3** PHONE jack
- 4** VIDEO button
TV/SAT button
5.1CH/DVD button
MD/TAPE button
CD button
TUNER button
- 5** SOUND FIELD ON/OFF,
MODE $[+]$, $[-]$ buttons
BASS $[+]$, $[-]$ buttons
TREBLE $[+]$, $[-]$ buttons
- 6** MENU $<$, $>$, $[+]$, $[-]$ buttons
- 7** MASTER VOLUME control
- 8** MUTING button
BASS BOOST button
- 9** PRESET/PTY SELECT $[+]$, $[-]$ buttons
TUNING $[+]$, $[-]$ buttons
FM/AM button
FM MODE button
SHIFT button
MEMORY button
- 10** SET UP button
NAME button
ENTER button
- 11** SOUND CONTROL LEVEL, SUR buttons
- 12** DIMMER button
DISPLAY button

Rear Panel



1 ANTENNA (AM/FM)
2 5.1 CH/DVD
3 CD
4 5.1 CH (VIDEO IN)
5 MD/TAPE

6 TV/SAT
7 VIDEO
8 MONITOR
9 SUB WOOFER
10 SPEAKERS REAR

11 SPEAKERS CENTER
12 SPEAKERS FRONT
13 AC power cord

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/O] button to turn on the main power. The model name, destination and the software version are displayed.

FLUORESCENT INDICATOR TUBE TEST MODE

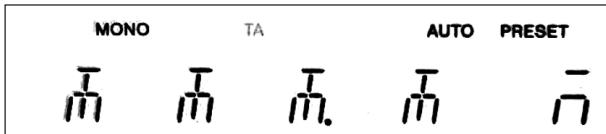
- * All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
- * Procedure:
While depressing the TV/SAT and the CD buttons simultaneously, press the power [I/O] button to turn on the main power.

1. All segments turn on.



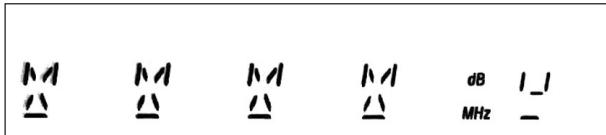
SET UP, SOUND FIELD, BASS BOOST and MUTING LED turn on.

2. Press the VIDEO button, confirm display



BASS BOOST, MUTING, SET UP and NAME LED turn on.

3. Press the VIDEO button, confirm display



SOUND CONTROL LEVEL, SOUND CONTROL SUR and SOUND FIELD 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 TV/SAT, MD/TAPE, CD, TUNER 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/O] 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/O] button to turn on the main power. The message INITIAL 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 ON/OFF button, press the power [I/O] 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

- * 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/O] button to turn on the main power. Either the message AM 9 k STEP or AM 10 k STEP appears. Select the desired step.

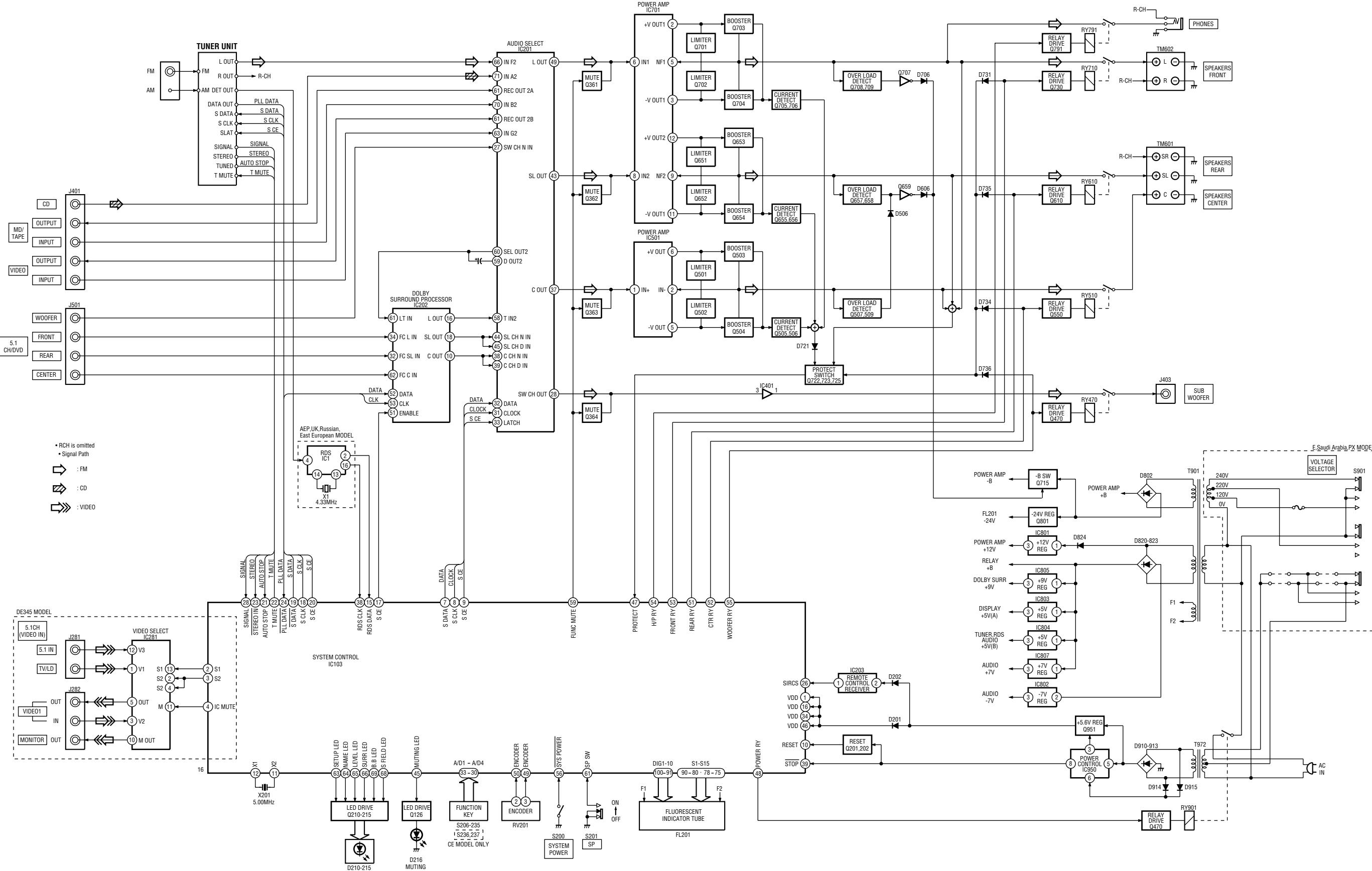
* For US/Canadian/E model only

KEY CHECK MODE

- * Button check
- * Procedure:
While depressing the MD/TAPE and the CD buttons simultaneously, press the power [I/O] button to turn on the main power.
“RES 36 KEY” appears.
Every pressing of any button other than [I/O] and SPEAKERS counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed “RES 00 KEY” appears.
When MASTER VOLUME is rotated in clockwise direction, “VOL MIN”, “VOL 1” to “VOL 30”, “VOL MAX” appear.

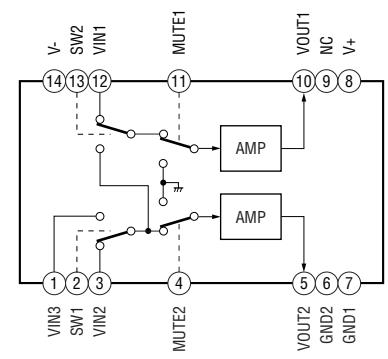
SECTION 3 DIAGRAMS

3-1. BLOCK DIAGRAM

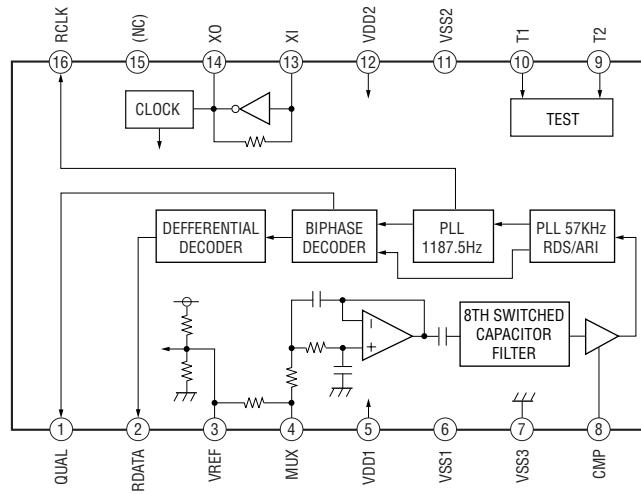


3-2. IC BLOCK DIAGRAMS

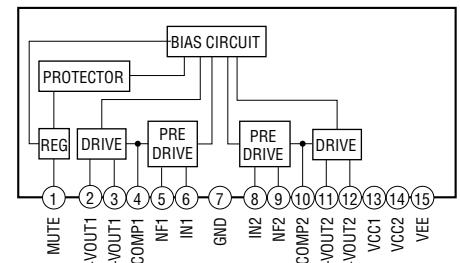
IC281 NJM2279 (VIDEO BOARD)



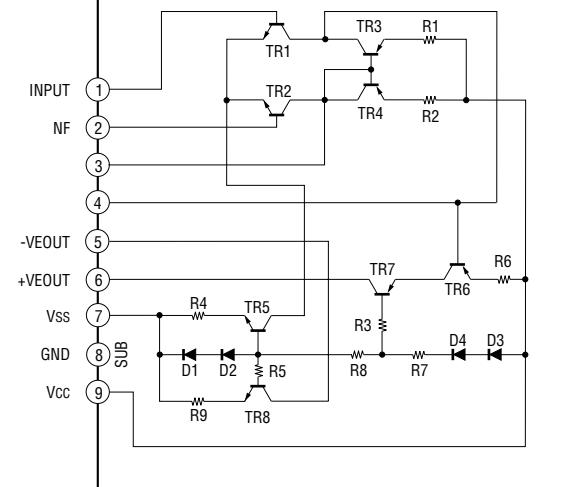
IC1 BU1924 (MAIN BAORD)



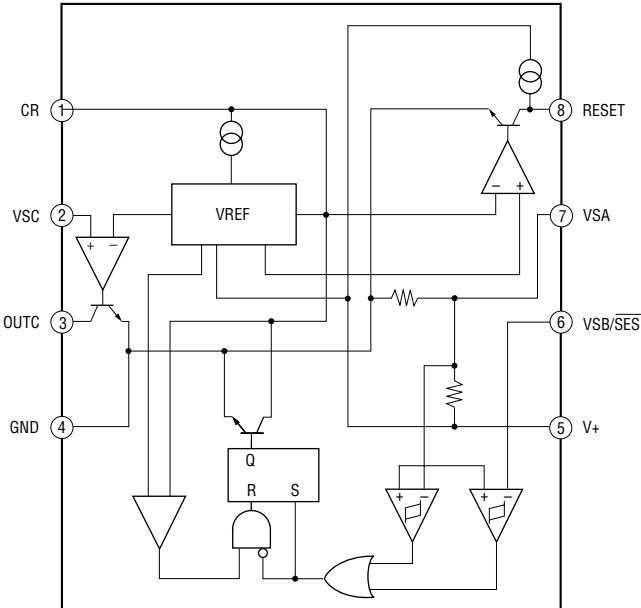
IC701, IC702 uPC2581V (MAIN BOARD)



IC501 STK350-230 (MAIN BOARD)



IC950 NJM2103 (POWER BOARD)



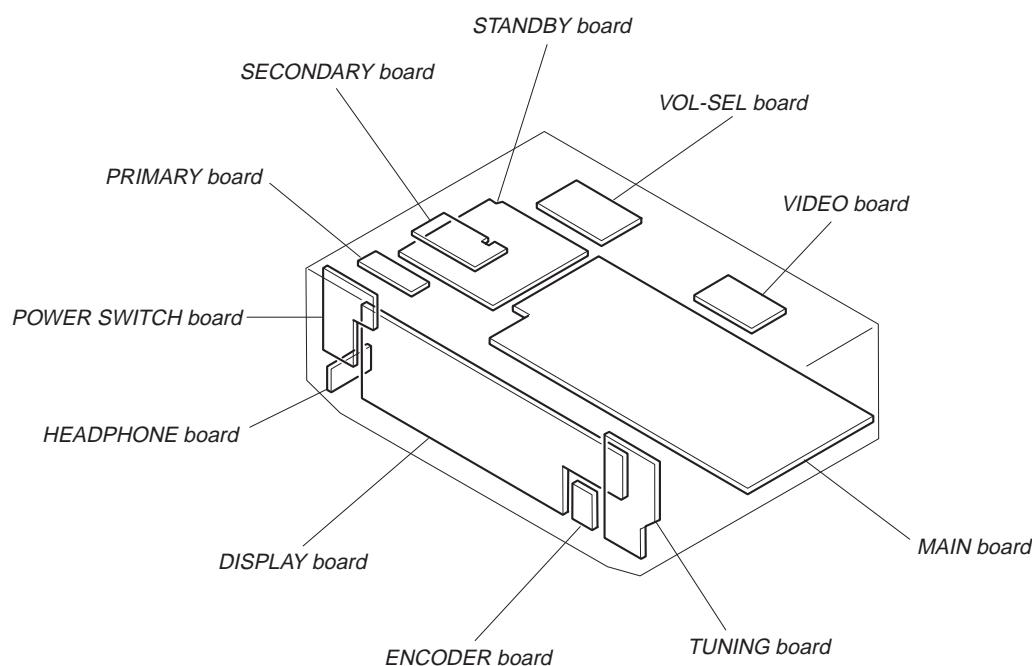
3-3. IC PIN FUNCTION DESCRIPTION

IC103 μPD780205GF (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	VDD +5V	I	Power supply to μ-com
2	S1	O	Control Video IC switching
3	S2	O	Control Video IC switching
4	IC.MUTE	O	Control mute of Video IC
5	P34	—	
6	P33	—	
7	S.DATA (M61501FP)	O	Volume IC data
8	S.CLK (M61501FP)	O	Volume IC clock
9	S.CE (M61501FP)	O	Volume IC enable
10	RESET	I	Read μ-com reset signal
11	X2	—	
12	X1	—	For μ-com clock
13	VSS	—	Programming pow. supply
14	—	—	No use
15	RDS.DATA.IN	I	Read decoded RDS data
16	VDD +5V	—	Power supply to μ-com
17	S.CE (LV1050M)	O	Chip enable for ICs
18	S.CLK(DOLBY.TUNER)	O	Output clock signal
19	S.DATA(DOLBY.TUNER)	O	Output data signal
20	S.CE (TUNER)	O	Chip enable for ICs
21	AUTO-STOP	I	Tuner has tuned to a freq.
22	T.MUTE	O	Mute tuner during scanning
23	STEREO-IN	I	Tuned freq. has stereo
24	PLL.DATA	I	Input tuner freq. data
25	AVSS	—	Analog ground
26	SIRCS	I	Read remote comm. signal
27	P16	—	
28	SIGNAL	I	Detect RDS signal level
29	VERSION	I	Read version setting
30	A/D IV	I	Read key push signal
31	A/D III	I	Read key push signal
32	A/D II	I	Read key push signal
33	A/D I	I	Read key push signal
34	AVDD +5.0V	—	Analog Power Supply
35	AVREF	—	Analog reference ground
36	P03	—	
37	P02	—	
38	RDS.CLK.IN	I	Read decoded RDS clock
39	STOP	I	Read signal when AC off
40	VSS	—	μ-com ground
41	P74	—	
42	P73	—	
43	P72	—	
44	P71	—	
45	MUTING LED	O	Control mute LED
46	VDD +5.0V	—	Power supply to μ-com
47	PROTECT	I	Detect Protector Status
48	POWER-RY	O	Control Power relay
49	ENCODER	I	Read volume encoder changing
50	ENCODER	I	Read volume encoder changing

Pin No.	Pin Name	I/O	Description
51	REAR-RY	O	Control rear relay on/off
52	CTR-RY	O	Control center relay
53	FRONT-RY	O	Control speaker relay
54	H/P-RY	O	Control Headphone relay
55	WOOFER RY	O	Control Woofer relay
56	SYS.POWER	I	Detect power switch key
57	P115	—	
58	P114	—	
59	FUNC.MUTE	O	Control muting circuit
60	P112	—	
61	SP SW	I	Read speaker switch condition
62	P110	—	
63	SET UP LED	O	Control Setup LED
64	NAME LED	O	Control Name LED
65	LEVEL LED	O	Control LEVEL LED
66	SURR LED	O	Control SURR LED
67	P103	—	
68	S.FIELD LED	O	Control SF LED
69	B.B. LED	O	Control Bass Boost LED
70	P100	—	
71 – 74	P97 – P94	—	
75 – 78	S15 – S12	O	Output signal to FL tube
79	VLOAD	I	Negative power supply
80 – 84	S11 – S7	—	
85 – 90	S6 – S1	O	Output signal to FL tube
91 – 100	DIG10 – DIG1	O	Output signal to FL tube

3-4. 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 μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- \triangle : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

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

以阴影和 \triangle 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。

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

- : 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 $10\text{ M}\Omega$). 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
 : VIDEO
 : PHONO

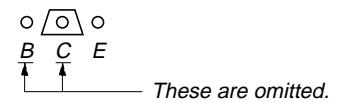
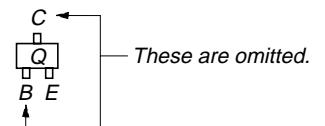
- Abbreviation

CND	: Canadian model.
AUS	: Australian model.
SP	: Singapore model.
MY	: Malaysia model.
AR	: Argentine model.
CH	: Chinese model.
MX	: Mexican model.
CIS	: Russian model.
EA	: Saudi Arabia model.
EE	: East European model.

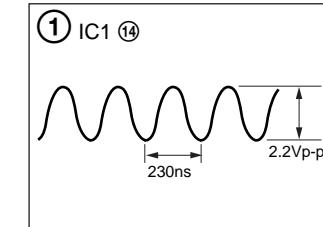
For printed wiring boards.

Note:

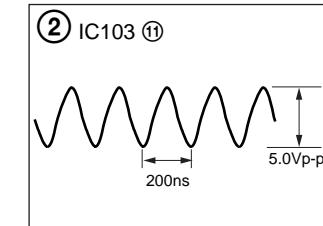
- : parts extracted from the component side.
- : Through hole.
- : internal component.
- : Pattern from the side which enables seeing.



• Waveform – MAIN SECTION –

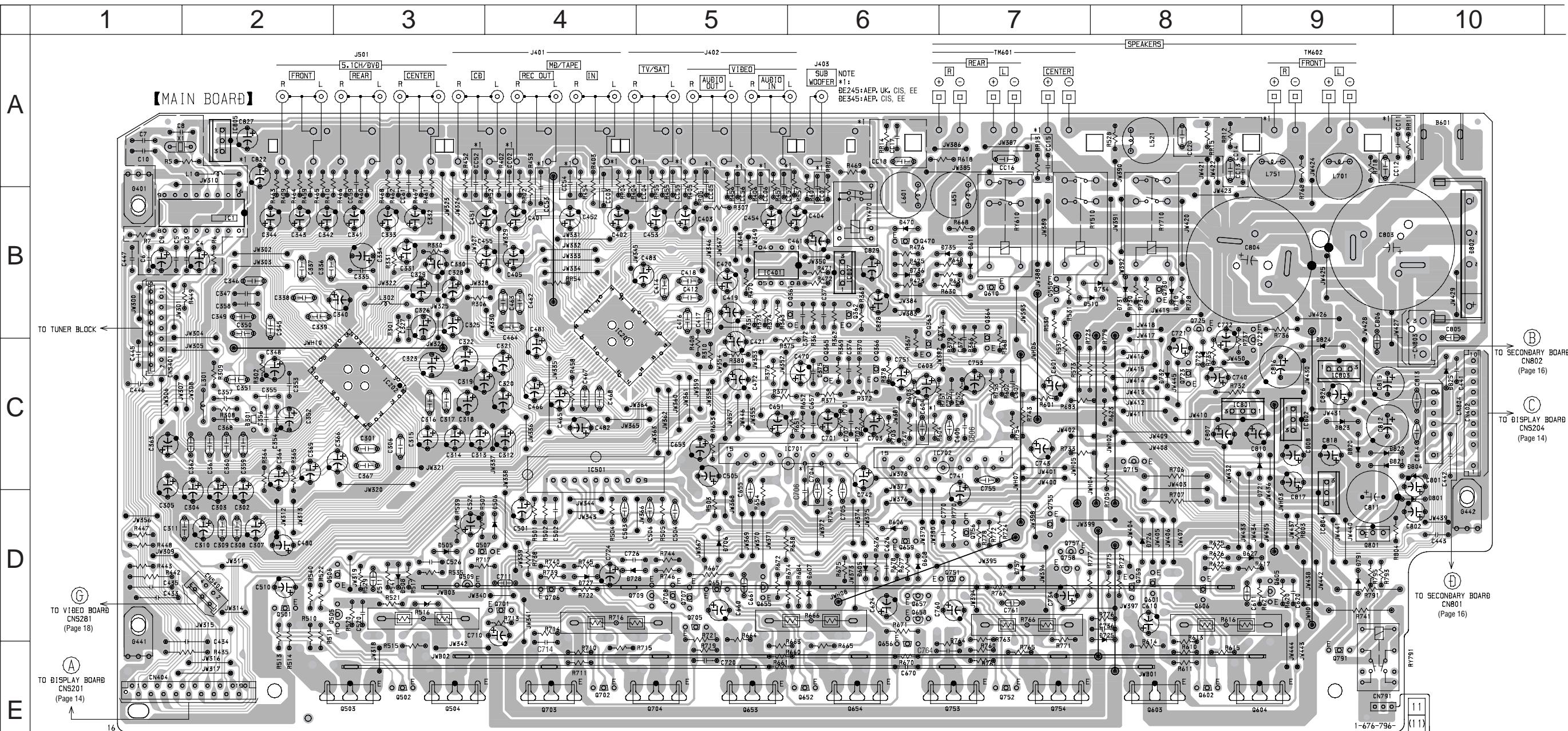


– PANEL SECTION –



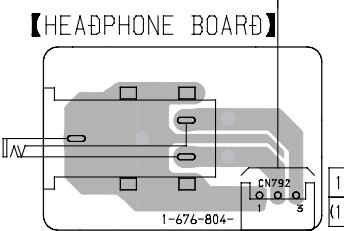
3-5. PRINTED WIRING BOARD MAIN SECTION

• Refer to page 9 for Circuit Boards Location.



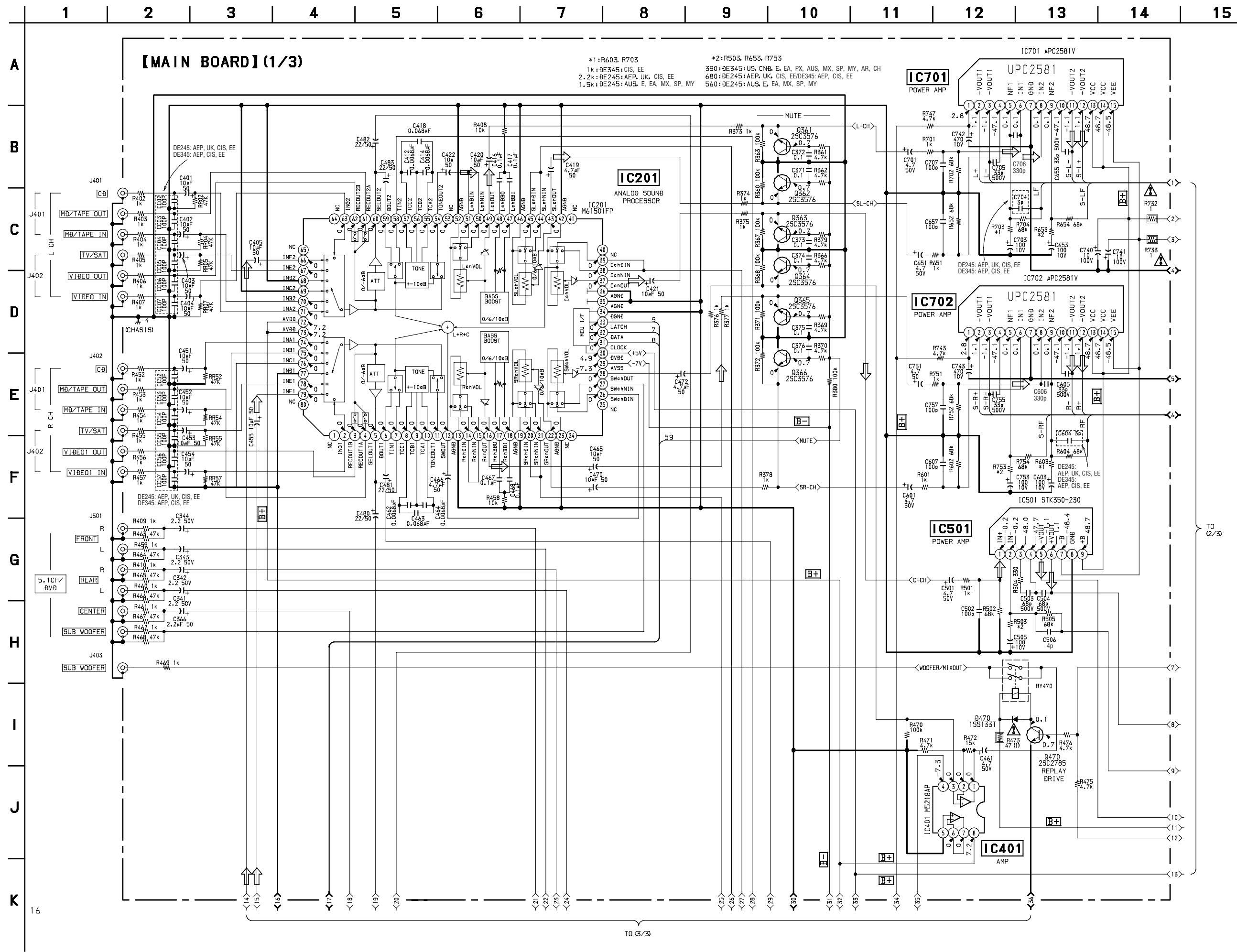
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D470	B-6	D757	D-7	IC807	B-6	Q610	B-7	Q751	D-7	IC3517	J-12
D505	D-3	D791	D-9	Q361	B-5	Q651	D-5	Q752	E-7	Q3301	G-3
D506	D-4	D801	C-10	Q362	B-6	Q652	E-6	Q753	E-7	Q3302	G-3
D508	D-3	D802	B-10	Q363	B-6	Q653	E-5	Q754	E-7	Q3303	G-4
D510	B-8	D804	C-10	Q364	B-7	Q654	E-6	Q755	D-7	Q3304	G-3
D605	D-6	D820	C-9	Q365	C-6	Q655	D-5	Q756	D-7	Q3305	G-3
D606	C-6	D821	C-10	Q366	C-6	Q656	D-6	Q757	D-7	Q3306	H-3
D607	D-6	D822	C-10	Q367	C-6	Q657	D-6	Q758	D-7	Q3307	G-6
D608	D-6	D823	C-9	Q470	B-6	Q658	D-6	Q759	D-8	Q3308	B-11
D610	B-7	D824	B-9	Q501	D-2	Q659	D-6	Q791	D-9	Q3309	H-5
D627	D-9	D825	B-10	Q502	E-3	Q701	D-4	Q801	D-9	Q3310	D-12
D706	D-5			Q503	E-3	Q702	E-4			Q3311	H-5
D710	B-8	IC1	B-2	Q504	E-3	Q703	E-4	IC3505	G-11	Q3312	D-12
D721	C-9	IC201	B-4	Q505	D-2	Q704	E-5	IC3506	I-10	Q3313	H-5
D722	B-8	IC202	C-3	Q506	D-2	Q705	D-5	IC3507	I-11	Q3314	D-12
D725	D-8	IC401	B-5	Q507	D-3	Q706	D-4	IC3508	H-10	Q3315	G-5
D726	D-8	IC501	C-4	Q509	D-3	Q707	D-5	IC3509	H-11	Q3401	G-8
D727	D-4	IC701	C-6	Q550	B-7	Q708	D-5	IC3510	J-10	Q3402	H-8
D728	D-4	IC702	C-7	Q601	D-8	Q709	D-5	IC3511	J-11	Q3403	H-7
D731	B-8	IC801	C-8	Q602	E-8	Q715	C-8	IC3512	J-10	Q3404	H-7
D732	B-8	IC802	C-9	Q603	E-8	Q722	B-9	IC3513	J-11	Q3405	H-7
D734	B-8	IC803	C-9	Q604	E-9	Q723	C-8	IC3514	I-11	Q3406	G-6
D735	B-7	IC804	C-9	Q605	D-9	Q725	B-8	IC3515	J-11	Q3407	D-4
D736	B-6	IC805	A-2	Q606	D-8	Q730	B-8	IC3516	I-12	Q3501	H-12

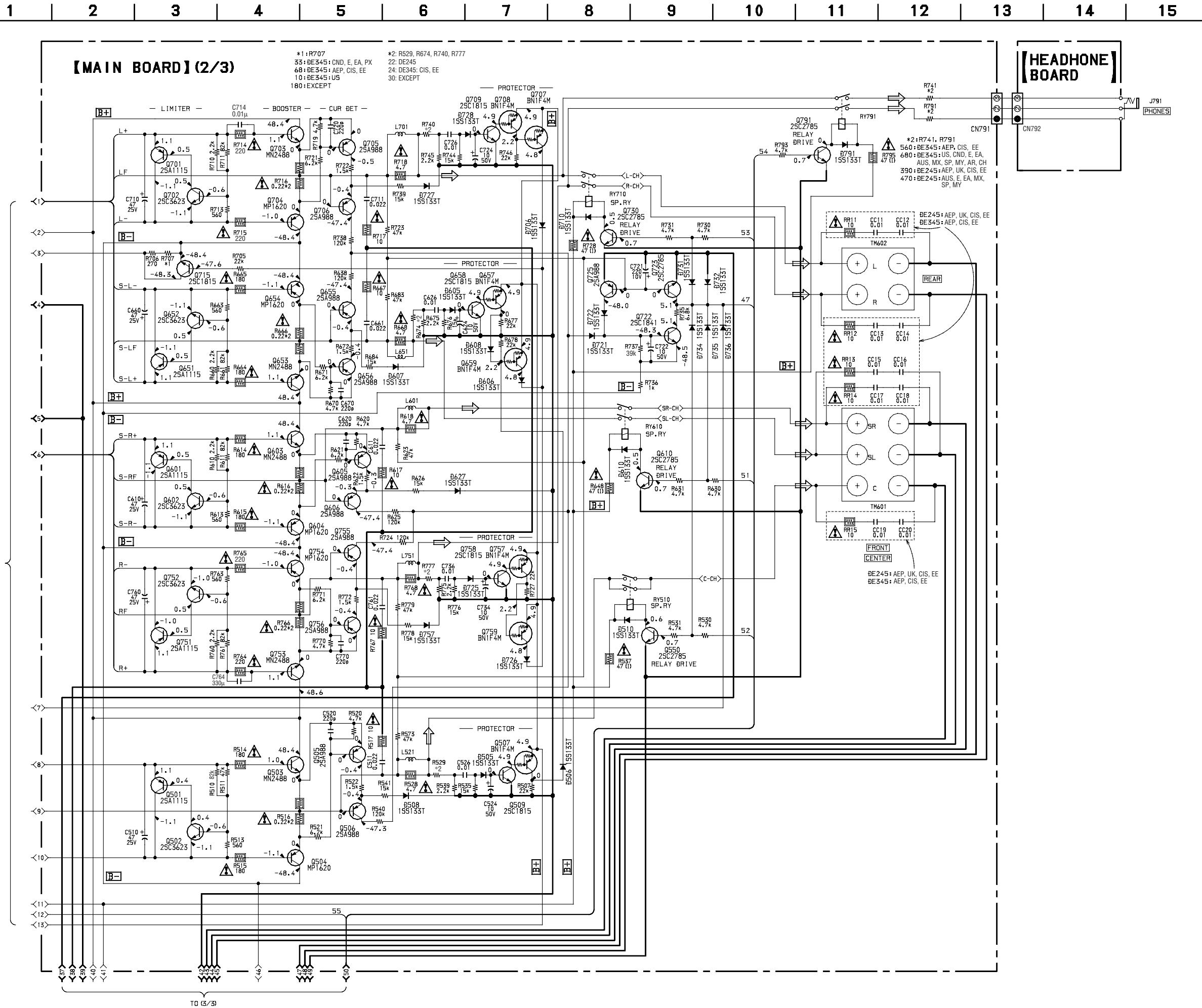


3-6. SCHEMATIC DIAGRAM MAIN SECTION (1/3)

• Refer to page 8 for IC Block Diagrams.

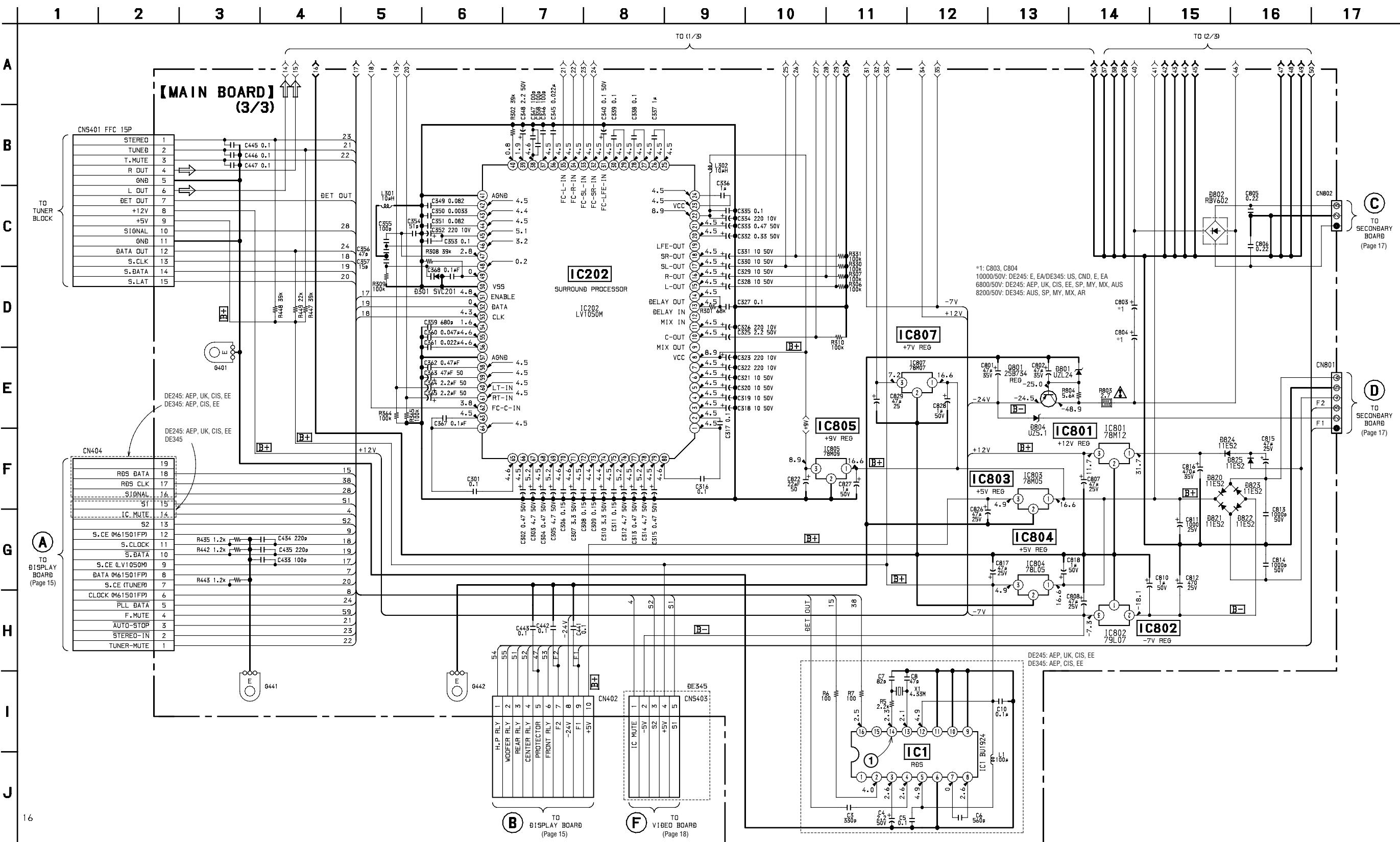


3-7. SCHEMATIC DIAGRAM MAIN SECTION (2/3)



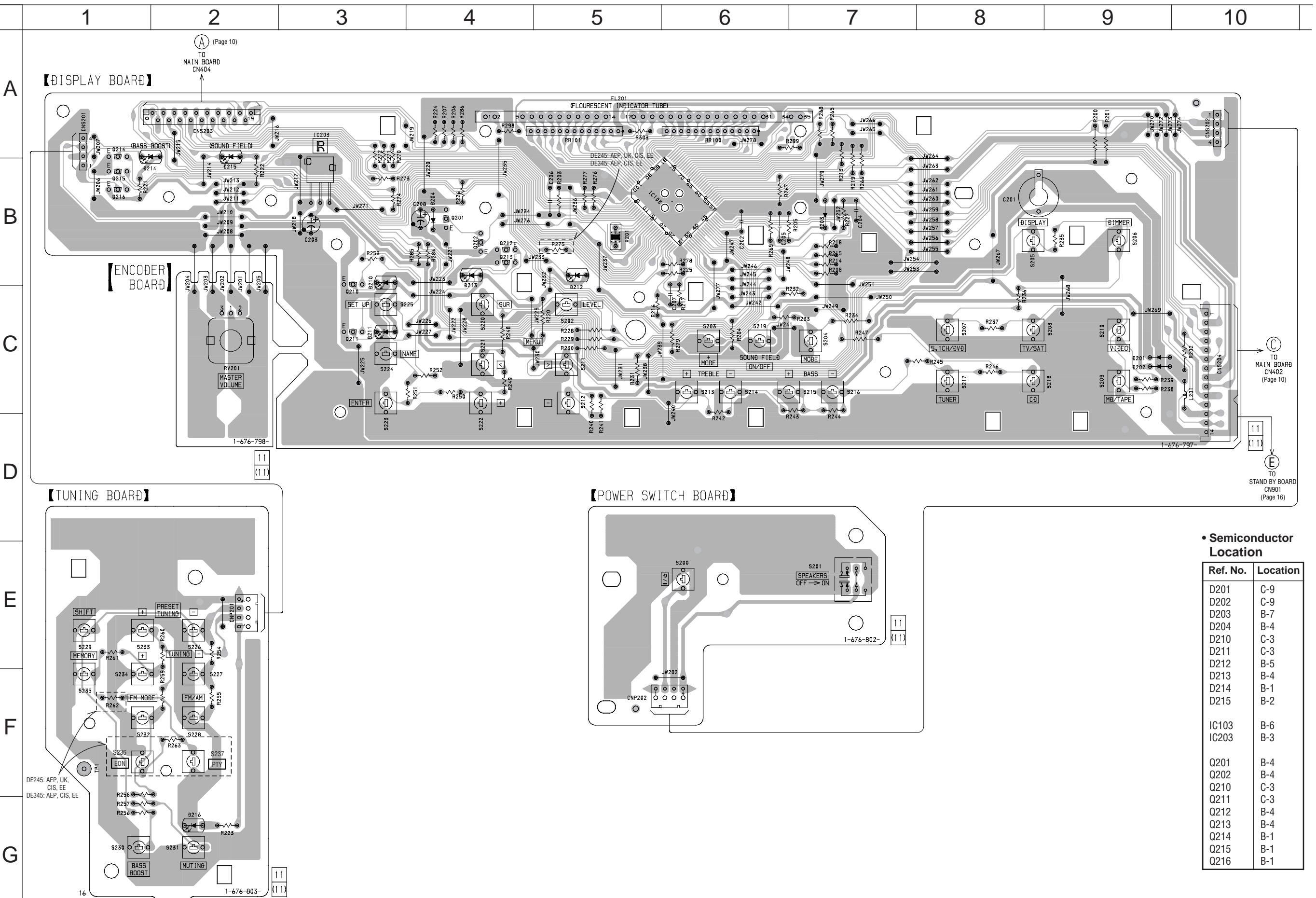
3-8. SCHEMATIC DIAGRAM MAIN SECTION (3/3)

- Refer to page 8 for IC Block Diagrams.
- Refer to page 9 for Waveforms.



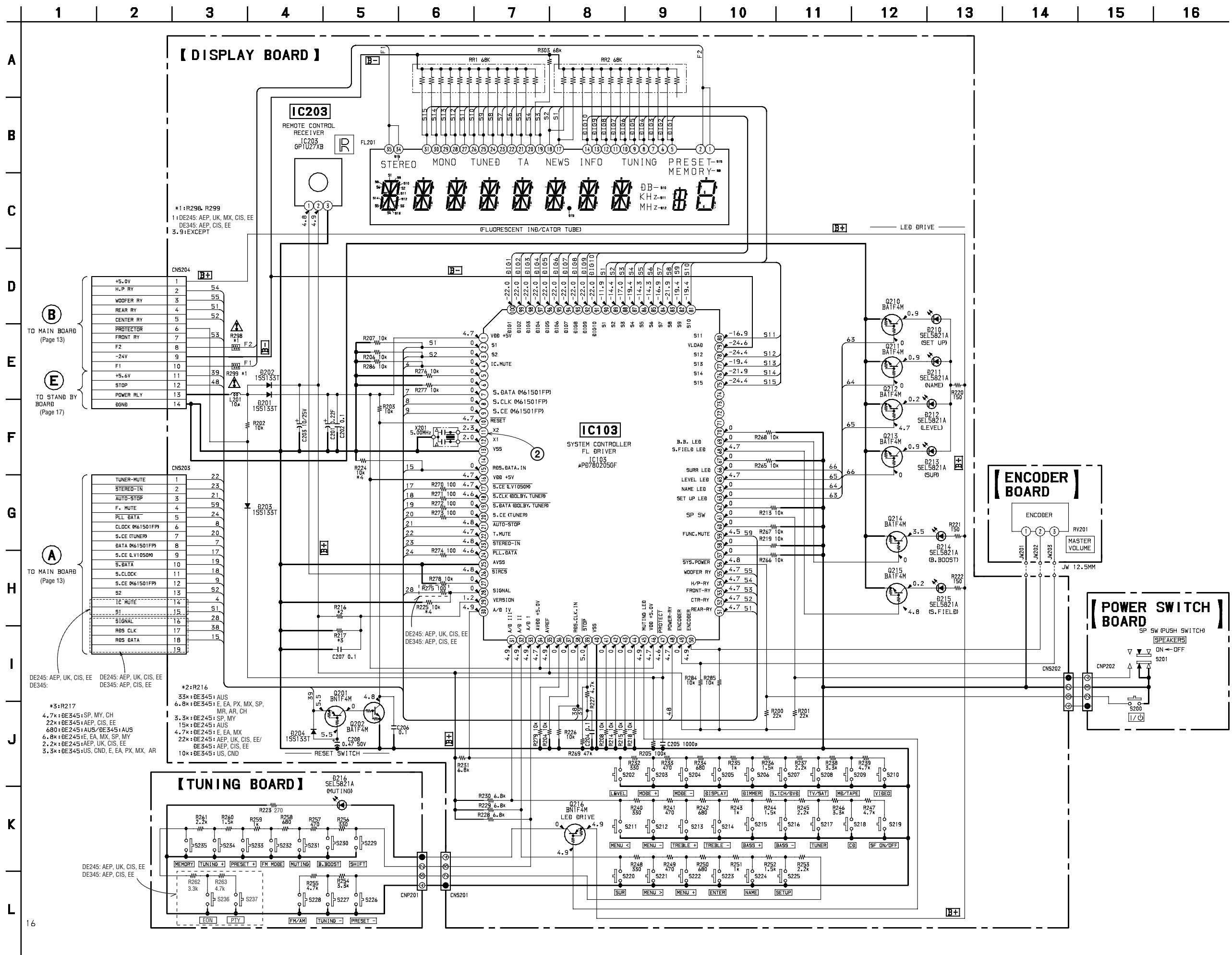
3-9. PRINTED WIRING BOARD PANEL SECTION

• Refer to page 9 for Circuit Boards Location.



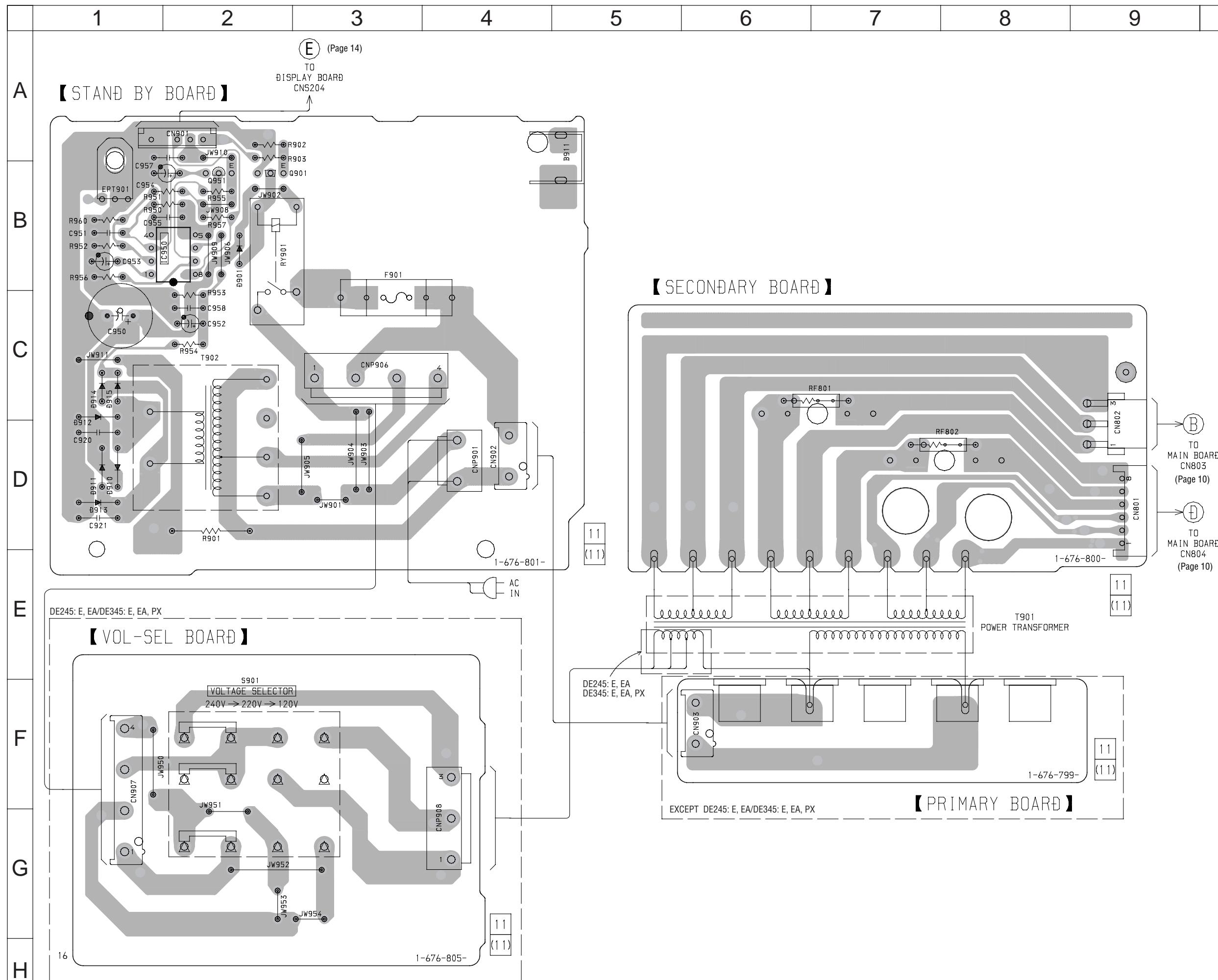
3-10. SCHEMATIC DIAGRAM PANEL SECTION

• Refer to page 8 for IC Pin Function.



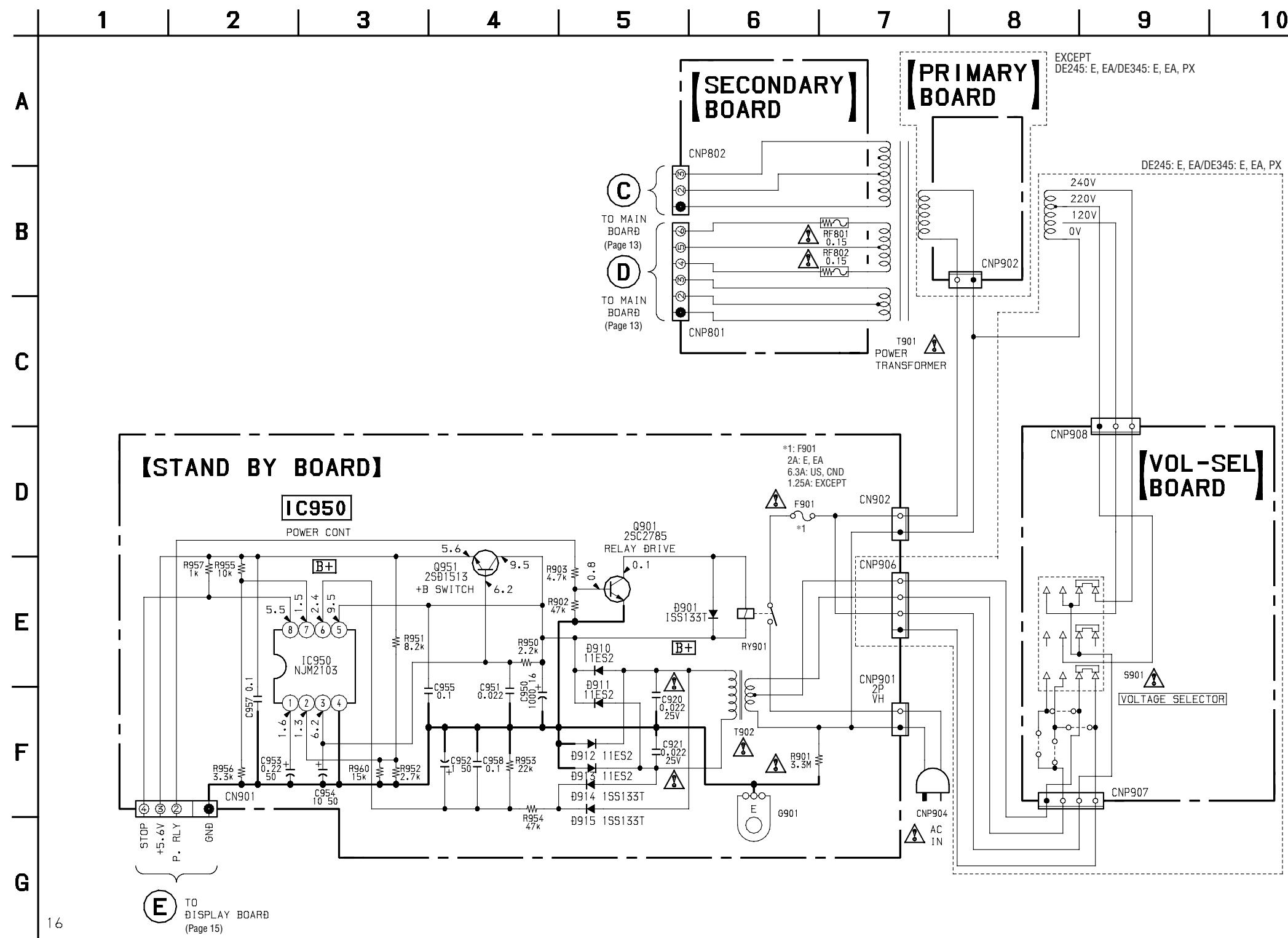
3-11. PRINTED WIRING BOARD POWER SECTION

• Refer to page 9 for Circuit Boards Location.



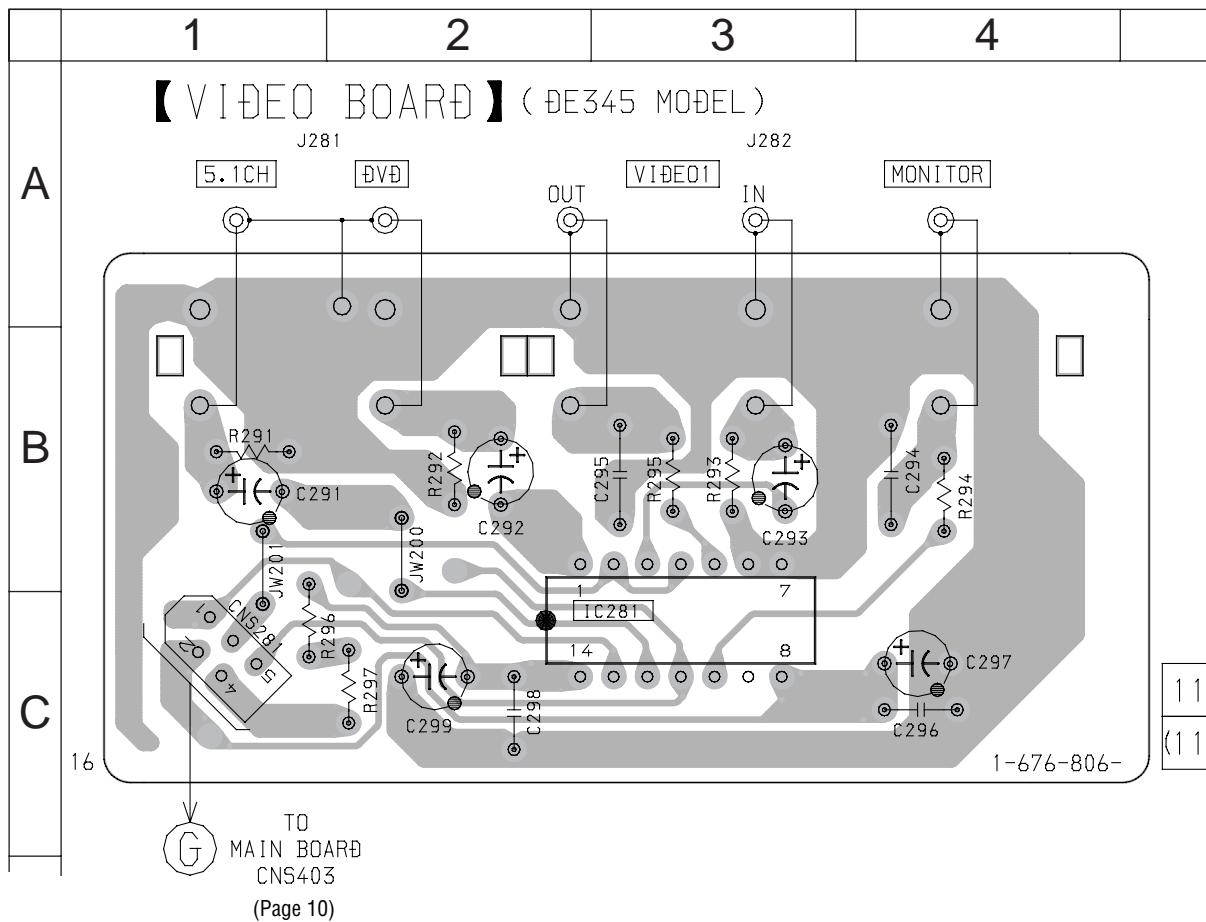
3-12. SCHEMATIC DIAGRAM POWER SECTION

• Refer to page 8 for IC Block Diagrams.

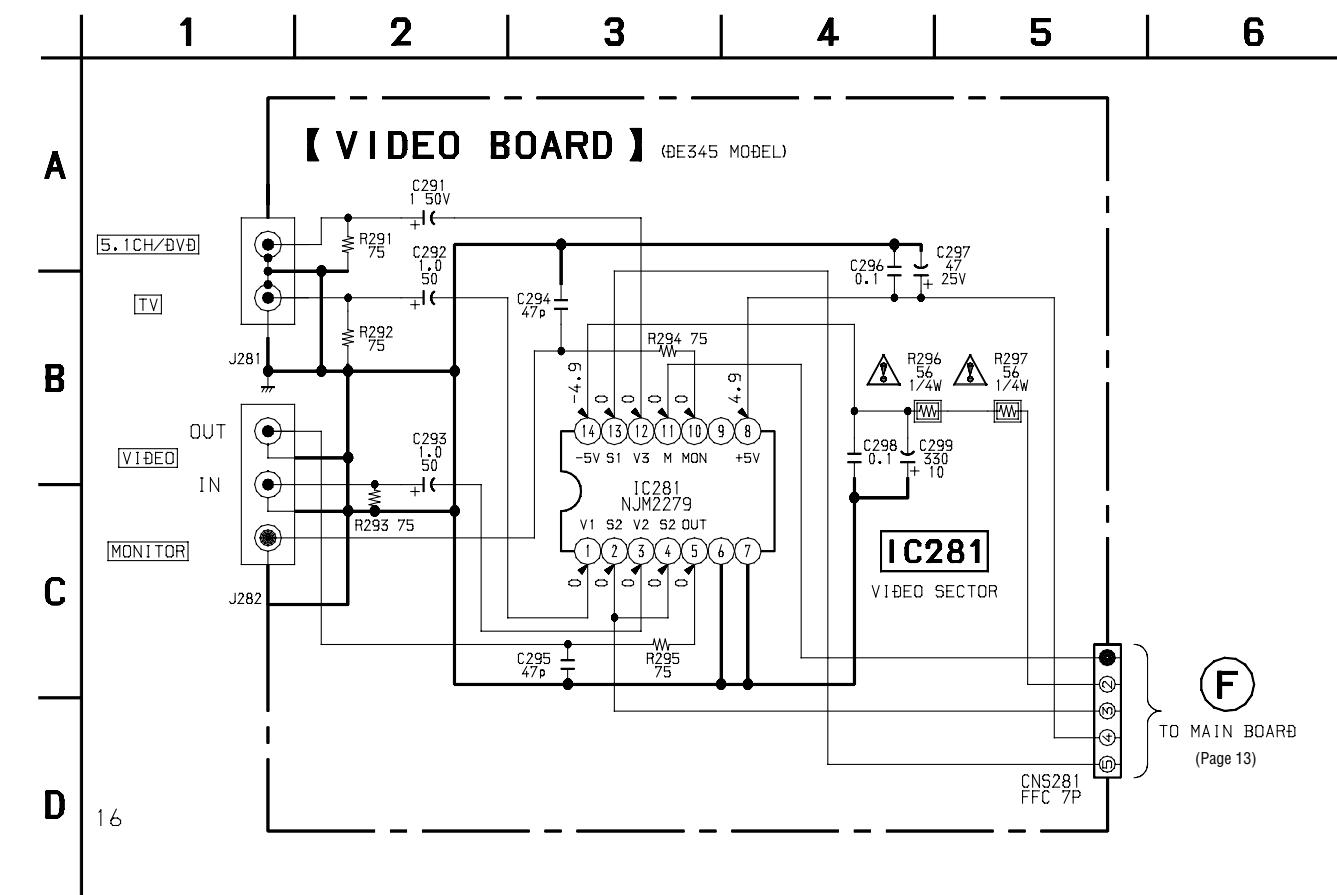


STR-DE245/DE345

3-13. PRINTED WIRING BOARD VIDEO SECTION • Refer to page 9 for Circuit Boards Location.



3-14. SCHEMATIC DIAGRAM VIDEO SECTION • Refer to page 8 for IC Block Diagrams.



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.
- 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.

Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)
 ↑ ↑
 Parts of Color Cabinet's Color

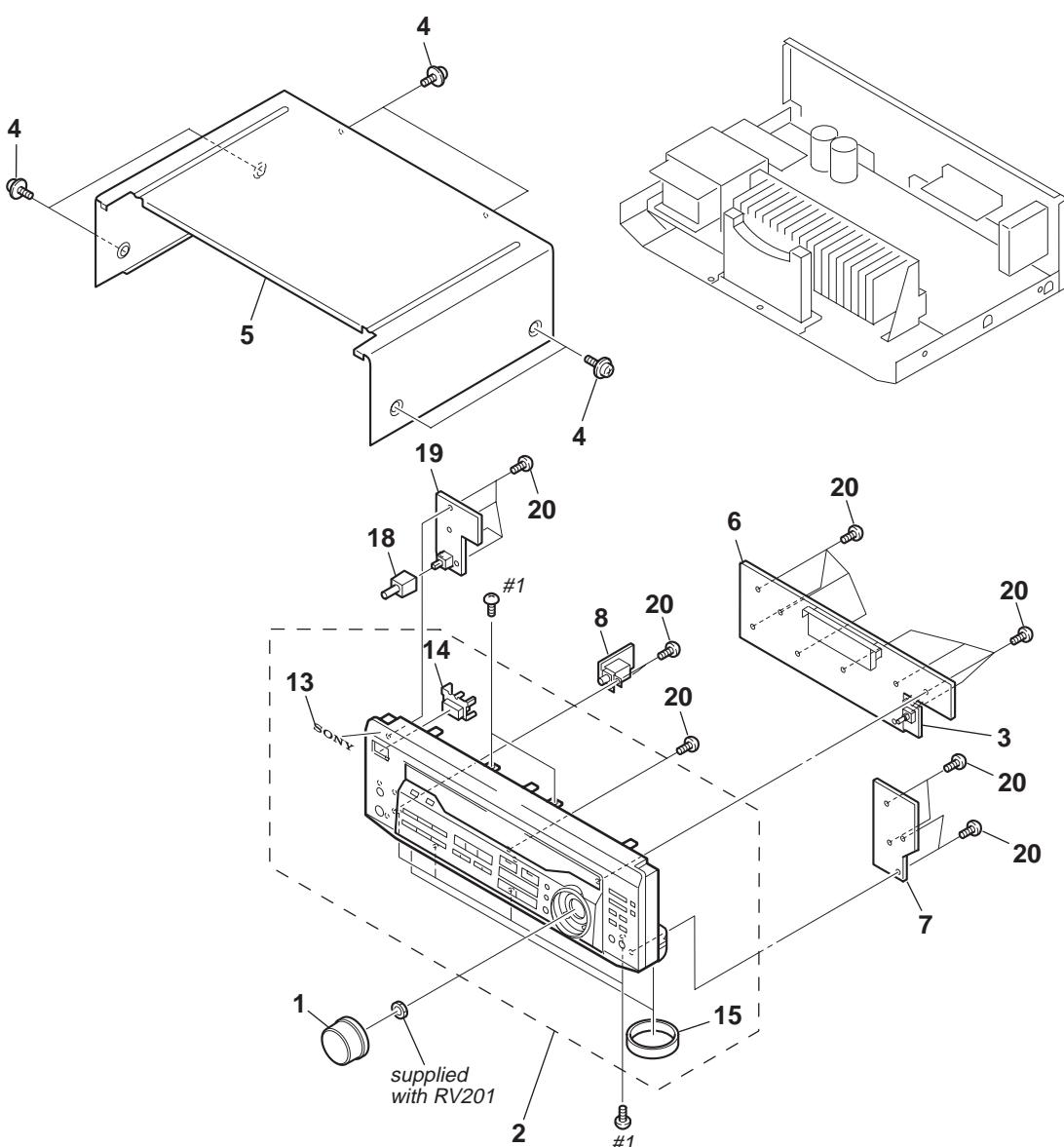
Abbreviation
 CND : Canadian model.
 AUS : Australian model.
 SP : Singapore model.
 MY : Malaysia model.
 AR : Argentine model.
 CH : Chinese model.
 MX : Mexican model.
 CIS : Russian model.
 EA : Saudi Arabian model.
 EE : East European model.

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

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

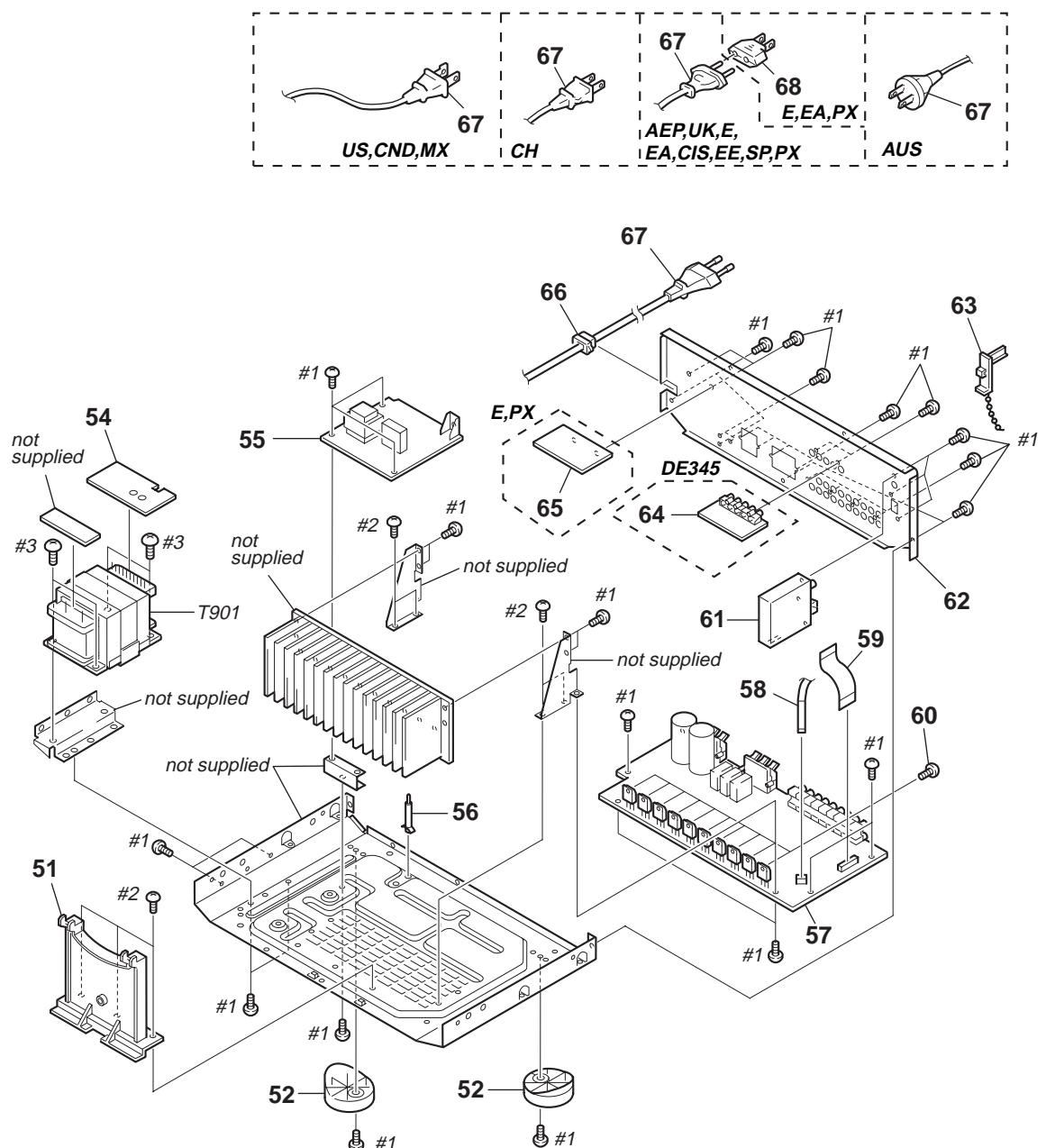
以阴影和 Δ 标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-226-453-01	KNOB(VOL-E3) (DE245:AUS,SP,MY/ DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)		6	A-4428-390-A	DISPLAY BOARD, COMPLETE (DE345:SP,MY,CH)	
1	4-226-453-31	KNOB(VOL-E3) (BLACK) (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)		6	A-4428-393-A	DISPLAY BOARD, COMPLETE (DE345:E,EA,PX)	
1	4-226-453-61	KNOB(VOL-E3) (DE245:E,EA,MX)		6	A-4428-397-A	DISPLAY BOARD, COMPLETE (DE345:CND)	
1	4-226-453-71	KNOB(VOL-E3) (SILVER) (DE245:AEP,UK,CIS,EE)		6	A-4428-400-A	DISPLAY BOARD, COMPLETE (DE245:AUS)	
2	X-4952-589-1	FRONT PANEL ASSY (DE345:US,CND)		6	A-4428-404-A	DISPLAY BOARD, COMPLETE (DE245:SP,MY)	
2	X-4952-630-1	FRONT PANEL ASSY (BLACK) (DE245:AEP,UK,CIS,EE)		6	A-4428-406-A	DISPLAY BOARD, COMPLETE (DE245:E,EA)	
2	X-4952-915-1	FRONT PANEL ASSY (SILVER) (DE245:AEP,UK,CIS,EE)		6	A-4428-409-A	DISPLAY BOARD, COMPLETE (DE245:AEP,UK,CIS,EE)	
2	X-4952-631-1	FRONT PANEL ASSY (DE345:E,EA,PX,AUS,MX,SP,MY,AR)		6	A-4428-413-A	DISPLAY BOARD, COMPLETE (DE345:AEP,CIS,EE)	
2	X-4952-632-1	FRONT PANEL ASSY (DE345:CH)		6	A-4473-331-A	DISPLAY BOARD, COMPLETE (DE345:MX)	
2	X-4952-633-1	FRONT PANEL ASSY (DE345:AEP,CIS,EE)		6	A-4473-333-A	DISPLAY BOARD, COMPLETE (DE345:AR)	
2	X-4952-634-1	FRONT PANEL ASSY (DE245:AUS,SP,MY)		6	A-4473-336-A	DISPLAY BOARD, COMPLETE (DE245:MX)	
2	X-4952-932-1	FRONT PANEL ASSY (DE245:E,EA,MX)		7	1-676-803-11	TUNING BOARD	
3	1-676-798-11	ENCODER BOARD		8	1-676-804-11	HEADPHONE BOARD	
4	4-210-291-01	SCREW (CASE 3 TP2)		13	4-996-698-81	EMBLEM, SONY	
5	4-218-845-01	UPPER CASE (DE245:AUS,E,EA,SP,MY/ DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)		14	4-996-683-61	BUTTON (POWER)	
5	4-998-206-41	UPPER CASE (BLACK)		15	4-977-593-01	RING(DIA. 50), ORNAMENTAL	
5	4-998-206-61	UPPER CASE (SILVER)		18	4-226-445-01	BUTTON (S) (DE245:AUS,SP,MY/ DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)	
6	A-4428-267-A	DISPLAY BOARD, COMPLETE (DE345:US)		18	4-226-445-31	BUTTON (S) (DE245:AEP,UK,CIS,EE/DE345:AP,CIS,EE)	
6	A-4428-383-A	DISPLAY BOARD, COMPLETE (DE345:CND)		18	4-226-445-61	BUTTON (S) (DE245:E,EA,MX)	
6	A-4428-386-A	DISPLAY BOARD, COMPLETE (DE345:AUS)		19	1-676-802-11	POWER SWITCH BOARD	
20	4-951-620-01	SCREW (2.6X8), +BVTP					

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-226-458-01	SUB-MOLD (E3)		61	1-693-407-41	TUNER	
52	X-4951-458-1	FOOT ASSY (DE245: AUS, E, EA, SP, MY/DE345: US, CND, E, EA, PX, AUS, MX, SP, MY, AR, CH)		62	4-226-462-01	BACK PANEL (E3) (DE345: US)	
52	X-4952-804-1	FOOT ASSY (DE245: AEP, UK, CIS, EE/DE345: AEP, CIS, EE)		62	4-226-462-11	BACK PANEL (E3) (DE345: CND)	
52	X-4952-941-1	FOOT ASSY (DE245: MX)		62	4-226-462-21	BACK PANEL (E3) (DE345: AUS)	
54	1-676-800-11	SECONDARY BOARD		62	4-226-462-31	BACK PANEL (E3) (DE345: SP, MY)	
55	A-4428-270-A	STAND BY BOARD, COMPLETE (DE345: US, CND, MX)		62	4-226-462-41	BACK PANEL (E3) (DE345: CH)	
55	A-4428-279-A	STAND BY BOARD, COMPLETE (DE245: MX)		62	4-226-462-51	BACK PANEL (E3) (DE345: E, EA, PX)	
55	A-4428-388-A	STAND BY BOARD, COMPLETE (DE345: AUS)		62	4-226-462-61	BACK PANEL (E3) (DE345: AEP)	
55	A-4428-391-A	STAND BY BOARD, COMPLETE (DE345: SP, MY, AR)		62	4-226-462-71	BACK PANEL (E3) (DE345: CIS, EE)	
55	A-4428-392-A	STAND BY BOARD, COMPLETE (DE345: CH)		62	4-226-468-21	BACK PANEL (E2) (DE245: AUS)	
55	A-4428-395-A	STAND BY BOARD, COMPLETE (DE345: E, EA, PX, MY)		62	4-226-468-31	BACK PANEL (E2) (DE245: SP, MY)	
55	A-4428-402-A	STAND BY BOARD, COMPLETE (DE245: AUS)		62	4-226-468-41	BACK PANEL (E2) (DE245: E, EA)	
55	A-4428-405-A	STAND BY BOARD, COMPLETE (DE245: SP, MY)		62	4-226-468-51	BACK PANEL (E2) (DE245: AEP, UK)	
55	A-4428-407-A	STAND BY BOARD, COMPLETE (DE245: E, EA)		62	4-226-468-61	BACK PANEL (E2) (DE245: MX, CIS, EE)	
55	A-4428-411-A	STAND BY BOARD, COMPLETE (DE245: AEP, UK, CIS, EE)		62	4-226-462-81	BACK PANEL (E3) (DE345: MX)	
55	A-4428-416-A	STAND BY BOARD, COMPLETE (DE345: AEP, CIS, EE)		62	4-226-462-91	BACK PANEL (E3) (DE345: AR)	
56	4-924-098-01	HOLDER, PC BOARD		63	4-956-370-12	BAND, PLUG FIXED (DE245: AUS/DE345: AUS)	
57	A-4428-268-A	MAIN BOARD, COMPLETE (DE345: US)		64	1-676-806-11	VIDEO BOARD (DE345)	
57	A-4428-387-A	MAIN BOARD, COMPLETE (DE345: AUS, SP, MY, CH)		65	1-676-805-11	VOL-SEL BOARD (DE245: E, EA/DE345: E, EA, PX)	
57	A-4428-394-A	MAIN BOARD, COMPLETE (DE345: CND, E, EA, PX)		66	3-703-244-00	BUSHING (FBS001), CORD	
57	A-4428-398-A	MAIN BOARD, COMPLETE (DE245: E, EA)		△ 67	1-696-847-11	CORD, POWER (AUS)	
57	A-4428-401-A	MAIN BOARD, COMPLETE (DE245: AUS, SP, MY)		△ 67	1-777-071-21	CORD, POWER (AEP, UK, E, EA, CIS, EE, SP, MY, PX)	
57	A-4428-410-A	MAIN BOARD, COMPLETE (DE245: AEP, UK, CIS, EE)		△ 67	1-783-205-11	CORD, POWER (CH)	
57	A-4428-414-A	MAIN BOARD, COMPLETE (DE345: AEP, CIS, EE)		△ 67	1-783-820-11	CORD, POWER (US, CND, MX)	
57	A-4473-330-A	MAIN BOARD, COMPLETE (DE345: MX)		68	1-569-008-21	ADAPTOR, CONVERSION 2P (E, EA, PX)	
57	A-4473-332-A	MAIN BOARD, COMPLETE (DE345: AR)		△ T901	1-435-267-11	TRANSFORMER, POWER (DE245: AUS)	
57	A-4473-335-A	MAIN BOARD, COMPLETE (DE245: MX)		△ T901	1-435-268-11	TRANSFORMER, POWER (DE245: SP, MY)	
58	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)		△ T901	1-435-269-11	TRANSFORMER, POWER (DE245: E, EA)	
59	1-769-850-11	WIRE (FLAT TYPE) (5 CORE) (DE345)		△ T901	1-435-270-11	TRANSFORMER, POWER (DE245: AEP, UK, CIS, EE)	
60	3-905-609-01	SCREW (TRANSISTOR)		△ T901	1-435-564-11	TRANSFORMER, POWER (DE245: MX)	
				△ T901	1-435-271-11	TRANSFORMER, POWER (DE345: US)	
				△ T901	1-435-272-11	TRANSFORMER, POWER (DE345: CND)	
				△ T901	1-435-273-11	TRANSFORMER, POWER (DE345: AUS)	
				△ T901	1-435-274-11	TRANSFORMER, POWER (DE345: SP, MY, AR, CH)	
				△ T901	1-435-275-11	TRANSFORMER, POWER (DE345: E, EA, PX)	
				△ T901	1-435-276-11	TRANSFORMER, POWER (DE345: AEP, CIS, EE)	
				△ T901	1-435-565-11	TRANSFORMER, POWER (DE345: MX)	

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

DISPLAY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “**” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **RESISTORS**
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- **CAPACITORS:**
uF: μ F
- **COILS**
uH: μ H
- **Abbreviation**

CND	: Canadian model.
AUS	: Australian model.
SP	: Singapore model.
MY	: Malaysia model.
AR	: Argentine model.
CH	: Chinese model.
MX	: Mexican model.
CIS	: Russian model.
EA	: Saudi Arabia model.
EE	: East European model.

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

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

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

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

以阴影和 \triangle 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	Remarks	Ref. No.	Part No.	Description	Remarks	
	A-4428-267-A	DISPLAY BOARD, COMPLETE (DE345:US)	*****			< CONNECTOR >		
	A-4428-383-A	DISPLAY BOARD, COMPLETE (DE345:CND)	*****	CNS201	1-794-028-11	BOARD TO BOARD PIN 4P		
	A-4428-386-A	DISPLAY BOARD, COMPLETE (DE345:AUS)	*****	CNS202	1-794-028-11	BOARD TO BOARD PIN 4P		
	A-4428-390-A	DISPLAY BOARD, COMPLETE	(DE345:SP,MY,CH)	CNS203	1-794-003-11	CONNECTOR 15P	(DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)	
	A-4428-393-A	DISPLAY BOARD, COMPLETE (DE345:E,EA,PX)	*****	CNS203	1-794-005-11	CONNECTOR 19P	(DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	
	A-4428-397-A	DISPLAY BOARD, COMPLETE (DE345:CND)	*****	CNS203	1-794-002-11	CONNECTOR 13P	(DE245:AUS,E,EA,MX,SP,MY)	
	A-4428-400-A	DISPLAY BOARD, COMPLETE (DE245:AUS)	*****	CNS204	1-564-593-11	PLUG, CONNECTOR 14P		
	A-4428-404-A	DISPLAY BOARD, COMPLETE (DE245:SP,MY)	*****			< DIODE >		
	A-4428-406-A	DISPLAY BOARD, COMPLETE (DE245:E,EA)	*****	D201	8-719-991-33	DIODE 1SS133T-77		
	A-4428-409-A	DISPLAY BOARD, COMPLETE	(DE245:AEP,UK,CIS,EE)	D202	8-719-991-33	DIODE 1SS133T-77		
	A-4428-413-A	DISPLAY BOARD, COMPLETE	(DE345:AEP,CIS,EE)	D203	8-719-991-33	DIODE 1SS133T-77		
	A-4473-331-A	DISPLAY BOARD, COMPLETE (DE345:MX)	*****	D204	8-719-991-33	DIODE 1SS133T-77		
	A-4473-333-A	DISPLAY BOARD, COMPLETE (DE345:AR)	*****	D210	8-719-046-39	DIODE SEL5821A-TP15 (SET UP)		
	A-4473-336-A	DISPLAY BOARD, COMPLETE (DE245:MX)	*****	D211	8-719-046-39	DIODE SEL5821A-TP15 (NAME)		
*	4-921-941-01	CUSHION (FL)		D212	8-719-046-39	DIODE SEL5821A-TP15 (LEVEL)		
	4-943-107-11	HOLDER(FL TUBE)		D213	8-719-046-39	DIODE SEL5821A-TP15 (SUR)		
		< CAPACITOR >		D214	8-719-313-50	DIODE SEL6810A-TH12 (B.BOOST)		
	C201	1-104-905-11	CAPACITOR	0.22F	8-719-313-50	DIODE SEL6810A-TH12 (S.FIELD)		
	C202	1-164-159-21	CERAMIC	0.1uF		< FILTER >		
	C203	1-126-096-11	ELECT	10uF	FL201	1-517-662-11	INDICATOR TUBE, FLUORESCENT	
	C204	1-164-159-21	CERAMIC	0.1uF		< IC >		
	C205	1-162-294-31	CERAMIC	0.001uF	IC103	8-759-656-87	IC μ PD780206GF-060-3BA	
	C206	1-164-159-21	CERAMIC	0.1uF	IC203	8-759-332-18	IC GP1U27XB	
	C207	1-164-159-21	CERAMIC	0.1uF		< COIL >		
	C208	1-124-465-00	ELECT	0.47uF	L201	1-410-509-11	INDUCTOR 10uH	
						< TRANSISTOR >		
				Q201	8-729-900-63	TRANSISTOR BN1F4M-TP		
				Q202	8-729-900-36	TRANSISTOR BA1F4M-TP		
				Q210	8-729-900-36	TRANSISTOR BA1F4M-TP		
				Q211	8-729-900-36	TRANSISTOR BA1F4M-TP		
				Q212	8-729-900-36	TRANSISTOR BA1F4M-TP		
				Q213	8-729-900-36	TRANSISTOR BA1F4M-TP		
				Q214	8-729-900-36	TRANSISTOR BA1F4M-TP		
				Q215	8-729-900-36	TRANSISTOR BA1F4M-TP		
				Q216	8-729-900-63	TRANSISTOR BN1F4M-TP		

DISPLAY

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks				
< RESISTOR >											
R200	1-249-433-11	CARBON	22K 5% 1/4W	R239	1-249-425-11	CARBON	4.7K 5% 1/4W F				
R201	1-249-433-11	CARBON	22K 5% 1/4W	R240	1-249-411-11	CARBON	330 5% 1/4W				
R202	1-249-429-11	CARBON	10K 5% 1/4W	R241	1-249-413-11	CARBON	470 5% 1/4W F				
R203	1-249-429-11	CARBON	10K 5% 1/4W	R242	1-249-415-11	CARBON	680 5% 1/4W F				
R204	1-249-429-11	CARBON	10K 5% 1/4W	R243	1-249-417-11	CARBON	1K 5% 1/4W F				
R205	1-249-441-11	CARBON	100K 5% 1/4W	R244	1-249-419-11	CARBON	1.5K 5% 1/4W F				
R206	1-249-429-11	CARBON	10K 5% 1/4W	R245	1-249-421-11	CARBON	2.2K 5% 1/4W F				
R207	1-249-429-11	CARBON	10K 5% 1/4W	R246	1-247-843-11	CARBON	3.3K 5% 1/4W				
R208	1-249-429-11	CARBON	10K 5% 1/4W	R247	1-249-425-11	CARBON	4.7K 5% 1/4W F				
R213	1-249-429-11	CARBON	10K 5% 1/4W	R248	1-249-411-11	CARBON	330 5% 1/4W				
R214	1-249-429-11	CARBON	10K 5% 1/4W	R249	1-249-413-11	CARBON	470 5% 1/4W F				
R215	1-249-429-11	CARBON	10K 5% 1/4W	R250	1-249-415-11	CARBON	680 5% 1/4W F				
R216	1-249-435-11	CARBON	33K 5% 1/4W (DE345:AUS)	R251	1-249-417-11	CARBON	1K 5% 1/4W F				
R216	1-249-427-11	CARBON	6.8K 5% 1/4W F (DE345:E,EA,PX,MX,SP,MY,AR,CH)	R252	1-249-419-11	CARBON	1.5K 5% 1/4W F				
R216	1-247-843-11	CARBON	3.3K 5% 1/4W (DE245:SP,MY)	R253	1-249-421-11	CARBON	2.2K 5% 1/4W F				
R216	1-249-431-11	CARBON	15K 5% 1/4W (DE245:AUS)	R265	1-249-429-11	CARBON	10K 5% 1/4W				
R216	1-249-425-11	CARBON	4.7K 5% 1/4W F (DE245:E,EA,MX)	R266	1-249-429-11	CARBON	10K 5% 1/4W				
R216	1-247-863-91	CARBON	22K 5% 1/4W (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	R267	1-249-429-11	CARBON	10K 5% 1/4W				
R216	1-249-429-11	CARBON	10K 5% 1/4W (DE345:US,CND)	R268	1-249-429-11	CARBON	10K 5% 1/4W				
R217	1-249-425-11	CARBON	4.7K 5% 1/4W F (DE345:SP,MY,CH)	R269	1-249-437-11	CARBON	47K 5% 1/4W				
R217	1-247-863-91	CARBON	22K 5% 1/4W (DE345:AEP,CIS,EE)	R270	1-247-807-31	CARBON	100 5% 1/4W				
R217	1-249-415-11	CARBON	680 5% 1/4W F (DE245:AUS/DE345:AUS)	R271	1-247-807-31	CARBON	100 5% 1/4W				
R217	1-249-427-11	CARBON	6.8K 5% 1/4W F (DE245:E,EA,MX,SP,MY)	R272	1-247-807-31	CARBON	100 5% 1/4W				
R217	1-249-421-11	CARBON	2.2K 5% 1/4W F (DE245:AEP,UK,CIS,EE)	R273	1-247-807-31	CARBON	100 5% 1/4W				
R217	1-247-843-11	CARBON	3.3K 5% 1/4W (DE345:US,CND,E,EA,PX,MX,AR)	R274	1-247-807-31	CARBON	100 5% 1/4W				
R218	1-249-429-11	CARBON	10K 5% 1/4W	R275	1-247-807-31	CARBON	100 5% 1/4W				
R219	1-249-429-11	CARBON	10K 5% 1/4W	(DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	R276	1-249-429-11	CARBON	10K 5% 1/4W			
R220	1-249-407-11	CARBON	150 5% 1/4W F	R277	1-249-429-11	CARBON	10K 5% 1/4W				
R221	1-249-407-11	CARBON	150 5% 1/4W F	R278	1-249-429-11	CARBON	10K 5% 1/4W				
R222	1-249-407-11	CARBON	150 5% 1/4W F	R279	1-249-429-11	CARBON	10K 5% 1/4W				
R224	1-249-429-11	CARBON	10K 5% 1/4W	R284	1-249-429-11	CARBON	10K 5% 1/4W				
R225	1-249-429-11	CARBON	10K 5% 1/4W	R285	1-249-429-11	CARBON	10K 5% 1/4W				
R226	1-249-429-11	CARBON	10K 5% 1/4W	R286	1-249-429-11	CARBON	10K 5% 1/4W				
R227	1-249-425-11	CARBON	4.7K 5% 1/4W F	△ R298	1-249-388-61	CARBON	3.9 5% 1/4W				
R228	1-249-427-11	CARBON	6.8K 5% 1/4W F	(DE245:E,AUS,SP/DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)	△ R298	1-249-381-11	CARBON	1 5% 1/4W F			
R229	1-249-427-11	CARBON	6.8K 5% 1/4W F	(DE245:AEP,UK,MX,CIS,EE/DE345:AEP,CIS,EE)	R303	1-249-439-11	CARBON	68K 5% 1/4W			
R230	1-249-427-11	CARBON	6.8K 5% 1/4W F	< SWITCH >							
R231	1-249-427-11	CARBON	6.8K 5% 1/4W F	S202	1-771-410-21	SWITCH, TACTILE (LEVEL)					
R232	1-249-411-11	CARBON	330 5% 1/4W F	S203	1-771-410-21	SWITCH, TACTILE (MODE +)					
R233	1-249-413-11	CARBON	470 5% 1/4W F	S204	1-771-410-21	SWITCH, TACTILE (MODE -)					
R234	1-249-415-11	CARBON	680 5% 1/4W F	S205	1-771-410-21	SWITCH, TACTILE (DISPLAY)					
R235	1-249-417-11	CARBON	1K 5% 1/4W F	S206	1-771-410-21	SWITCH, TACTILE (DIMMER)					
R236	1-249-419-11	CARBON	1.5K 5% 1/4W F	S207	1-771-410-21	SWITCH, TACTILE (5.1CH/DVD)					
R237	1-249-421-11	CARBON	2.2K 5% 1/4W F	S208	1-771-410-21	SWITCH, TACTILE (TV/SAT)					
R238	1-247-843-11	CARBON	3.3K 5% 1/4W	S209	1-771-410-21	SWITCH, TACTILE (MD/TAPE)					
				S210	1-771-410-21	SWITCH, TACTILE (VIDEO)					
				S211	1-771-410-21	SWITCH, TACTILE (MENU <)					

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。

DISPLAY	ENCODER	HEADPHONE	MAIN
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
S212	1-771-410-21	SWITCH, TACTILE (MENU -)		C3	1-162-288-31	CERAMIC 330PF 10% 50V (DE245:AEP,UK,CIS,EE/DE345:AEP,CEIS,EE)	< CAPACITOR >
S213	1-771-410-21	SWITCH, TACTILE (TREBLE +)		C4	1-126-961-11	ELECT 2.2uF 20.00% 50V (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	
S214	1-771-410-21	SWITCH, TACTILE (TREBLE -)		C5	1-164-159-21	CERAMIC 0.1uF 50V (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	
S215	1-771-410-21	SWITCH, TACTILE (BASS +)		C6	1-162-291-31	CERAMIC 560PF 10.00% 50V (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	
S216	1-771-410-21	SWITCH, TACTILE (BASS -)		C7	1-128-808-21	CERAMIC 82PF 5% 50V (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	
S217	1-771-410-21	SWITCH, TACTILE (TUNER)		C10	1-164-159-21	CERAMIC 0.1uF 50V (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	
S218	1-771-410-21	SWITCH, TACTILE (CD)		C301	1-136-165-00	MYLAR 0.1uF 5.00% 50V	
S219	1-771-410-21	SWITCH, TACTILE (SF ON/OFF)		C302	1-126-959-11	ELECT 0.47uF 20.00% 50V	
S220	1-771-410-21	SWITCH, TACTILE (SUR)		C303	1-126-794-11	ELECT 4.7uF 20.00% 50V	
S221	1-771-410-21	SWITCH, TACTILE (MENU >)		C304	1-126-959-11	ELECT 0.47uF 20.00% 50V	
S222	1-771-410-21	SWITCH, TACTILE (MENU +)		C305	1-126-794-11	ELECT 4.7uF 20.00% 50V	
S223	1-771-410-21	SWITCH, TACTILE (ENTER)		C306	1-136-167-00	MYLAR 0.15uF 5.00% 50V	
S224	1-771-410-21	SWITCH, TACTILE (NAME)		C307	1-126-962-11	ELECT 3.3uF 20.00% 50V	
S225	1-771-410-21	SWITCH, TACTILE (SET UP)		C308	1-136-167-00	MYLAR 0.15uF 5.00% 50V	
			< VIBRATOR >	C309	1-136-167-00	MYLAR 0.15uF 5.00% 50V	
X201	1-579-233-11	VIBRATOR, CERAMIC 5MHz		C310	1-126-962-11	ELECT 3.3uF 20.00% 50V	
			*****	C311	1-136-167-00	MYLAR 0.15uF 5.00% 50V	
	1-676-798-11	ENCODER BOARD	*****	C312	1-126-794-11	ELECT 4.7uF 20.00% 50V	
			*****	C313	1-126-959-11	ELECT 0.47uF 20.00% 50V	
			< VARIABLE RESISTOR >	C314	1-126-794-11	ELECT 4.7uF 20.00% 50V	
RV201	1-418-773-11	ENCODER	*****	C315	1-126-959-11	ELECT 0.47uF 20.00% 50V	
			*****	C316	1-136-165-00	MYLAR 0.1uF 5.00% 50V	
	1-676-804-11	HEADPHONE BOARD	*****	C317	1-136-165-00	MYLAR 0.1uF 5.00% 50V	
			*****	C318	1-126-964-11	ELECT 10uF 20.00% 50V	
			< CONNECTOR >	C319	1-126-964-11	ELECT 10uF 20.00% 50V	
* CN792	1-564-518-11	PLUG, CONNECTOR 3P		C320	1-126-964-11	ELECT 10uF 20.00% 50V	
			< JACK >	C321	1-126-964-11	ELECT 10uF 20.00% 50V	
J791	1-750-733-11	JACK (LARGE TYPE)(PHONES)	*****	C322	1-126-934-11	ELECT 220uF 20.00% 10V	
			*****	C323	1-126-934-11	ELECT 220uF 20.00% 10V	
	A-4428-268-A	MAIN BOARD, COMPLETE (DE345:US)	*****	C325	1-126-961-11	ELECT 2.2uF 20.00% 50V	
			*****	C326	1-126-934-11	ELECT 220uF 20.00% 10V	
	A-4428-387-A	MAIN BOARD, COMPLETE (DE345:AUS,SP,MY,CH)	*****	C327	1-164-159-21	CERAMIC 0.1uF 50V	
			*****	C328	1-126-964-11	ELECT 10uF 20.00% 50V	
	A-4428-394-A	MAIN BOARD, COMPLETE (DE345:CND,E,EA,PX)	*****	C329	1-126-964-11	ELECT 10uF 20.00% 50V	
			*****	C330	1-126-964-11	ELECT 10uF 20.00% 50V	
	A-4428-398-A	MAIN BOARD, COMPLETE (DE245:E,EA)	*****	C331	1-126-964-11	ELECT 10uF 20.00% 50V	
			*****	C332	1-124-252-00	ELECT 0.33uF 20% 50V	
	A-4428-401-A	MAIN BOARD, COMPLETE (DE245:AUS,SP,MY)	*****	C333	1-126-959-11	ELECT 0.47uF 20.00% 50V	
			*****	C334	1-126-934-11	ELECT 220uF 20.00% 10V	
	A-4428-410-A	MAIN BOARD, COMPLETE (DE245:AEP,UK,CIS,EE)	*****	C335	1-164-159-21	CERAMIC 0.1uF 50V	
			*****	C336	1-136-177-00	MYLAR 1uF 5.00% 50V	
	A-4428-414-A	MAIN BOARD, COMPLETE (DE345:AEP,CIS,EE)	*****	C337	1-136-177-00	MYLAR 1uF 5.00% 50V	
			*****	C338	1-136-165-00	MYLAR 0.1uF 5.00% 50V	
	A-4473-330-A	MAIN BOARD, COMPLETE (DE345:MX)	*****	C339	1-136-165-00	MYLAR 0.1uF 5.00% 50V	
			*****	C340	1-126-956-91	ELECT 0.1uF 20.00% 50V	
	A-4473-332-A	MAIN BOARD, COMPLETE (DE345:AR)	*****	C341	1-126-961-11	ELECT 2.2uF 20.00% 50V	
			*****	C342	1-126-961-11	ELECT 2.2uF 20.00% 50V	
	A-4473-335-A	MAIN BOARD, COMPLETE (DE245:MX)	*****	C343	1-126-961-11	ELECT 2.2uF 20.00% 50V	
			*****	C344	1-126-961-11	ELECT 2.2uF 20.00% 50V	
				C345	1-136-157-00	MYLAR 0.022uF 5.00% 50V	

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D731	8-719-991-33	DIODE 1SS133T-77				< TRANSISTOR >	
D732	8-719-991-33	DIODE 1SS133T-77		Q361	8-729-823-22	TRANSISTOR 2SC3576-AC	
D734	8-719-991-33	DIODE 1SS133T-77		Q362	8-729-823-22	TRANSISTOR 2SC3576-AC	
D735	8-719-991-33	DIODE 1SS133T-77		Q363	8-729-823-22	TRANSISTOR 2SC3576-AC	
D736	8-719-991-33	DIODE 1SS133T-77		Q364	8-729-823-22	TRANSISTOR 2SC3576-AC	
D757	8-719-991-33	DIODE 1SS133T-77		Q365	8-729-823-22	TRANSISTOR 2SC3576-AC	
D791	8-719-991-33	DIODE 1SS133T-77		Q366	8-729-823-22	TRANSISTOR 2SC3576-AC	
D801	8-719-934-13	DIODE HZS24-1LTD		Q470	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
D802	8-719-072-05	DIODE RBV-602LF-A		Q501	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
D804	8-719-109-85	DIODE MTZJ-T-77-5.1B		Q502	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
D820	8-719-200-82	DIODE 11ES2-NTA1B		Q503	8-749-010-25	IC MN2488-OPY-M	
D821	8-719-200-82	DIODE 11ES2-NTA1B		Q504	8-749-010-26	IC MP1620-OPY-M	
D822	8-719-200-82	DIODE 11ES2-NTA1B		Q505	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
D823	8-719-200-82	DIODE 11ES2-NTA1B		Q506	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
D824	8-719-200-82	DIODE 11ES2-NTA1B		Q507	8-729-900-63	TRANSISTOR BN1F4M-TP	
D825	8-719-200-82	DIODE 11ES2-NTA1B		Q509	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
		< EARTH >		Q550	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
* G401	1-537-738-21	TERMINAL, EARTH		Q601	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
* G441	1-537-738-21	TERMINAL, EARTH		Q602	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
* G442	1-537-738-21	TERMINAL, EARTH		Q603	8-749-010-25	IC MN2488-OPY-M	
		< IC >		Q604	8-749-010-26	IC MP1620-OPY-M	
IC1	8-759-541-48	IC BU1924 (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)		Q605	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
IC201	8-759-655-38	IC M61501FP		Q606	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
IC202	8-759-655-37	IC LV1050M		Q610	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
IC401	8-759-636-74	IC M5218AP-22		Q651	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
IC501	8-749-011-16	IC STK350-230		Q652	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
IC701	8-759-326-52	IC uPC2581V		Q653	8-749-010-25	IC MN2488-OPY-M	
IC702	8-759-326-52	IC uPC2581V		Q654	8-749-010-26	IC MP1620-OPY-M	
IC801	8-759-376-91	IC uPC78M12AHF		Q655	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
IC802	8-759-604-95	IC M5F79M07L		Q656	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
IC803	8-759-039-69	IC uPC7805AHF		Q657	8-729-900-63	TRANSISTOR BN1F4M-TP	
IC804	8-759-039-69	IC uPC7805AHF		Q658	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
IC805	8-759-701-59	IC M5F78M09L		Q659	8-729-900-63	TRANSISTOR BN1F4M-TP	
IC807	8-759-605-00	IC M5F78M07L		Q701	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
		< JACK >		Q702	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
J401	1-774-411-11	JACK, PIN 6P (MD/TAPE)		Q703	8-749-010-25	IC MN2488-OPY-M	
J402	1-770-015-11	JACK, PIN 6P (VIDEO)		Q704	8-749-010-26	IC MP1620-OPY-M	
J403	1-774-785-11	JACK, PIN 1P (SUB WOOFER)		Q705	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
J501	1-779-599-11	JACK, PIN 6P (5.1CH/DVD)		Q706	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
		< COIL >		Q707	8-729-900-63	TRANSISTOR BN1F4M-TP	
L1	1-410-521-11	INDUCTOR 100uH (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)		Q708	8-729-900-63	TRANSISTOR BN1F4M-TP	
L301	1-410-509-11	INDUCTOR 10uH		Q709	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
L302	1-410-509-11	INDUCTOR 10uH		Q715	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
L521	1-420-872-00	COIL, AIR-CORE		Q722	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
L601	1-420-872-00	COIL, AIR-CORE		Q723	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
L651	1-420-872-00	COIL, AIR-CORE		Q725	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
L701	1-420-872-00	COIL, AIR-CORE		Q730	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
L751	1-420-872-00	COIL, AIR-CORE		Q751	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
				Q752	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
				Q753	8-749-010-25	IC MN2488-OPY-M	
				Q754	8-749-010-26	IC MP1620-OPY-M	
				Q755	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
				Q756	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
				Q757	8-729-900-63	TRANSISTOR BN1F4M-TP	
				Q758	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
				Q759	8-729-900-63	TRANSISTOR BN1F4M-TP	

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R601	1-249-417-11	CARBON	1K 5% 1/4W F	R677	1-247-863-91	CARBON	22K 5% 1/4W
R602	1-249-439-11	CARBON	68K 5% 1/4W	R678	1-247-863-91	CARBON	22K 5% 1/4W
R603	1-249-417-11	CARBON	1K 5% 1/4W F (DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)	R683	1-249-437-11	CARBON	47K 5% 1/4W
R603	1-249-421-11	CARBON	2.2K 5% 1/4W F (DE245:AEP,UK,CIS,EE)	R684	1-249-431-11	CARBON	15K 5% 1/4W
R603	1-249-419-11	CARBON	1.5K 5% 1/4W F (DE245:US,CND,AUS,E,EA,MX,SP,MY/DE345:AEP,CIS,EE)	R701	1-249-417-11	CARBON	1K 5% 1/4W F
R604	1-249-439-11	CARBON	68K 5% 1/4W	R702	1-249-439-11	CARBON	68K 5% 1/4W
R610	1-249-421-11	CARBON	2.2K 5% 1/4W F	R703	1-249-414-11	CARBON	560 5% 1/4W F (DE345:AEP,CIS,EE)
R611	1-249-440-11	CARBON	82K 5% 1/4W	R703	1-249-417-11	CARBON	1K 5% 1/4W F (DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)
R613	1-249-414-11	CARBON	560 5% 1/4W F	R703	1-249-421-11	CARBON	2.2K 5% 1/4W F (DE245:AEP,UK,CIS,EE)
△ R614	1-249-408-11	CARBON	180 5% 1/4W F	R703	1-249-419-11	CARBON	1.5K 5% 1/4W F (DE245:AUS,E,EA,MX,SP,MY)
△ R615	1-249-408-11	CARBON	180 5% 1/4W F	R704	1-249-439-11	CARBON	68K 5% 1/4W
△ R616	1-234-182-11	ENCAPSULATED COMPONENT		R705	1-247-863-91	CARBON	22K 5% 1/4W
R617	1-249-393-11	CARBON	10 5% 1/4W F	R706	1-216-453-00	METAL OXIDE	270 5% 2W
△ R618	1-249-389-11	CARBON	4.7 5% 1/4W F	R707	1-215-883-11	METAL OXIDE	33 5% 2W
R620	1-249-425-11	CARBON	4.7K 5% 1/4W F	R707	1-215-885-00	METAL OXIDE	68 5% 2W (DE345:CND,E,EA,PX)
R621	1-247-850-11	CARBON	6.2K 5% 1/4W	R707	1-215-880-00	METAL OXIDE	10 5% 2W (DE345:AEP,CIS,EE)
R622	1-249-419-11	CARBON	1.5K 5% 1/4W F	R707	1-216-452-11	METAL OXIDE	180 5% 2W (DE345:AEP,UK,AUS,E,EA,MX,CIS,EE,SP,MY/DE345:AUS,MX,SP,MY,AR,CH)
R623	1-249-437-11	CARBON	47K 5% 1/4W	R710	1-249-421-11	CARBON	2.2K 5% 1/4W F
R625	1-247-881-00	CARBON	120K 5% 1/4W	R711	1-249-440-11	CARBON	82K 5% 1/4W
△ R626	1-249-431-11	CARBON	15K 5% 1/4W	R713	1-249-414-11	CARBON	560 5% 1/4W F
R630	1-249-425-11	CARBON	4.7K 5% 1/4W F	△ R714	1-249-409-11	CARBON	220 5% 1/4W F
R631	1-249-425-11	CARBON	4.7K 5% 1/4W F	△ R715	1-249-409-11	CARBON	220 5% 1/4W F
R638	1-247-881-00	CARBON	120K 5% 1/4W	△ R716	1-234-182-11	ENCAPSULATED COMPONENT	
△ R648	1-249-401-11	CARBON	47 5% 1/4W F	△ R717	1-249-393-11	CARBON	10 5% 1/4W F
R651	1-249-417-11	CARBON	1K 5% 1/4W F	△ R718	1-249-389-11	CARBON	4.7 5% 1/4W F
R652	1-249-439-11	CARBON	68K 5% 1/4W	R719	1-249-425-11	CARBON	4.7K 5% 1/4W F
R653	1-249-412-11	CARBON	390 5% 1/4W F (DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)	R721	1-247-850-11	CARBON	6.2K 5% 1/4W
R653	1-249-415-11	CARBON	680 5% 1/4W F (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	R722	1-249-419-11	CARBON	1.5K 5% 1/4W F
R653	1-249-414-11	CARBON	560 5% 1/4W F (DE245:AUS,E,EA,MX,SP,MY)	R723	1-249-437-11	CARBON	47K 5% 1/4W
R654	1-249-439-11	CARBON	68K 5% 1/4W	R724	1-247-881-00	CARBON	120K 5% 1/4W
R660	1-249-421-11	CARBON	2.2K 5% 1/4W F	R727	1-247-863-91	CARBON	22K 5% 1/4W
R661	1-249-440-11	CARBON	82K 5% 1/4W	△ R728	1-249-401-11	CARBON	47 5% 1/4W F
R663	1-249-414-11	CARBON	560 5% 1/4W F	R730	1-249-425-11	CARBON	4.7K 5% 1/4W F
△ R664	1-249-408-11	CARBON	180 5% 1/4W F	R731	1-249-425-11	CARBON	4.7K 5% 1/4W F
△ R665	1-249-408-11	CARBON	180 5% 1/4W F	△ R732	1-249-381-11	CARBON	1 5% 1/4W F
△ R666	1-234-182-11	ENCAPSULATED COMPONENT		△ R733	1-249-381-11	CARBON	1 5% 1/4W F
△ R667	1-249-393-11	CARBON	10 5% 1/4W F	R735	1-249-427-11	CARBON	6.8K 5% 1/4W F
△ R668	1-249-389-11	CARBON	4.7 5% 1/4W F	R736	1-249-417-11	CARBON	1K 5% 1/4W F
R670	1-249-425-11	CARBON	4.7K 5% 1/4W F	R737	1-247-869-91	CARBON	39K 5% 1/4W F
R671	1-247-850-11	CARBON	6.2K 5% 1/4W	R738	1-247-881-00	CARBON	120K 5% 1/4W
R672	1-249-419-11	CARBON	1.5K 5% 1/4W F	R739	1-249-431-11	CARBON	15K 5% 1/4W
R674	1-247-863-91	CARBON	22K 5% 1/4W F (DE245)	R740	1-247-863-91	CARBON	22K 5% 1/4W F
R674	1-247-864-91	CARBON	24K 5% 1/4W (DE345:CIS,EE)	R740	1-247-864-91	CARBON	24K 5% 1/4W F (DE245)
R674	1-247-866-91	CARBON	30K 5% 1/4W F (EXCEPT DE345:CIS,EE)	R740	1-247-866-91	CARBON	30K 5% 1/4W F (DE345:CIS,EE)
R675	1-249-421-11	CARBON	2.2K 5% 1/4W F	R740	1-216-455-11	METAL OXIDE	560 5% 2W (DE345:AEP,CIS,EE)
R676	1-249-431-11	CARBON	15K 5% 1/4W	R741	1-215-868-00	METAL OXIDE	680 5% 1W (DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)

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MAIN	POWER SWITCH	PRIMARY	SECONDARY
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R741	1-216-454-11	METAL OXIDE	390 5% 2W (DE245:AEP,UK,CIS,EE)	▲RR11	1-249-393-11	CARBON 10 5%	1/4W F (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)
R741	1-215-867-00	METAL OXIDE	470 5% 1W (DE245:AUS,E,EA,MX,SP,MY)	▲RR12	1-249-393-11	CARBON 10 5%	1/4W F (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)
R743	1-249-425-11	CARBON	4.7K 5% 1/4W F	▲RR13	1-249-393-11	CARBON 10 5%	1/4W F (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)
R744	1-249-431-11	CARBON	15K 5% 1/4W	▲RR14	1-249-393-11	CARBON 10 5%	1/4W F (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)
R745	1-249-421-11	CARBON	2.2K 5% 1/4W F	▲RR15	1-249-393-11	CARBON 10 5%	1/4W F (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)
R746	1-247-863-91	CARBON	22K 5% 1/4W				
R747	1-249-425-11	CARBON	4.7K 5% 1/4W F				
R751	1-249-417-11	CARBON	1K 5% 1/4W F	RR52	1-249-437-11	CARBON 47K 5%	1/4W
R752	1-249-439-11	CARBON	68K 5% 1/4W	RR54	1-249-437-11	CARBON 47K 5%	1/4W
R753	1-249-412-11	CARBON	390 5% 1/4W F (DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)	RR55	1-249-437-11	CARBON 47K 5%	1/4W
R753	1-249-415-11	CARBON	680 5% 1/4W F (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	RR57	1-249-437-11	CARBON 47K 5%	1/4W
							< RELAY >
R753	1-249-414-11	CARBON	560 5% 1/4W F (DE245:AUS,E,EA,MX,SP,MY)	RY470	1-755-267-11	RELAY	
R754	1-249-439-11	CARBON	68K 5% 1/4W	RY510	1-755-170-11	RELAY (12V)	
R760	1-249-421-11	CARBON	2.2K 5% 1/4W F	RY610	1-755-170-11	RELAY (12V)	
R761	1-249-440-11	CARBON	82K 5% 1/4W	RY710	1-755-170-11	RELAY (12V)	
R763	1-249-414-11	CARBON	560 5% 1/4W F	RY791	1-515-614-11	RELAY	
▲R764	1-249-409-11	CARBON	220 5% 1/4W F				< TERMINAL >
▲R765	1-249-409-11	CARBON	220 5% 1/4W F	TM601	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P)	
▲R766	1-234-182-11	ENCAPSULATED COMPONENT		TM602	1-537-925-31	TERMINAL BOARD	
▲R767	1-249-393-11	CARBON	10 5% 1/4W F				< VIBRATOR >
▲R768	1-249-389-11	CARBON	4.7 5% 1/4W F	X1	1-579-900-21	VIBRATOR, CRYSTAL 4.33MHz (DE245:AEP,UK,CIS,EE/DE345:AEP,CIS,EE)	
R770	1-249-425-11	CARBON	4.7K 5% 1/4W F				*****
R771	1-247-850-11	CARBON	6.2K 5% 1/4W				*****
R772	1-249-419-11	CARBON	1.5K 5% 1/4W F				*****
R775	1-249-421-11	CARBON	2.2K 5% 1/4W F				*****
R776	1-249-431-11	CARBON	15K 5% 1/4W				*****
R777	1-247-864-91	CARBON	24K 5% 1/4W (DE345:CIS,EE)				*****
R777	1-247-866-91	CARBON	30K 5% 1/4W (EXCEPT DE345:CIS,EE)				< CONNECTOR >
R778	1-249-431-11	CARBON	15K 5% 1/4W	CNP202	1-573-105-11	CONNECTOR, PC BOARD 4P	
R779	1-249-437-11	CARBON	47K 5% 1/4W				< SWITCH >
R791	1-216-455-11	METAL OXIDE	560 5% 2W (DE345:AEP,CIS,EE)				
R791	1-215-868-00	METAL OXIDE	680 5% 1W (DE345:US,CND,E,EA,PX,AUS,MX,SP,MY,AR,CH)	S200	1-771-410-21	SWITCH, TACTILE (POWER)	
R791	1-216-454-11	METAL OXIDE	390 5% 2W (DE245:AEP,UK,CIS,EE)	S201	1-771-854-11	SWITCH, PUSH (1 KEY)(SPEAKER)	
R791	1-215-867-00	METAL OXIDE	470 5% 1W (DE245:AUS,E,EA,MX,SP,MY)				*****
R793	1-249-425-11	CARBON	4.7K 5% 1/4W F				(EXCEPT DE245:E,EA/DE345:E,EA,PX)
▲R795	1-249-401-11	CARBON	47 5% 1/4W F				< CONNECTOR >
▲R803	1-249-386-11	CARBON	2.7 5% 1/6W F				
R804	1-249-426-11	CARBON	5.6K 5% 1/4W				
RR02	1-249-437-11	CARBON	47K 5% 1/4W	* CNP902	1-564-321-21	PIN, CONNECTOR 2P	
RR04	1-249-437-11	CARBON	47K 5% 1/4W				*****
RR05	1-249-437-11	CARBON	47K 5% 1/4W				*****
RR07	1-249-437-11	CARBON	47K 5% 1/4W				*****
							< RF MODULATOR >
				▲RF801	1-243-833-81	FUSIBLE 0.15 5%	1/2W
				▲RF802	1-243-833-81	FUSIBLE 0.15 5%	1/2W

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STANDBY

TUNING

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks																																																																				
A-4428-270-A	STANDBY BOARD, COMPLETE (DE345:US,CND,MX)		*****			< EARTH >																																																																					
A-4428-279-A	STANDBY BOARD, COMPLETE (DE245:MX)	*****		* G901	1-537-738-21	TERMINAL, EARTH																																																																					
A-4428-388-A	STANDBY BOARD, COMPLETE (DE345:AUS)	*****				< IC >																																																																					
A-4428-391-A	STANDBY BOARD, COMPLETE (DE345:SP,MY,AR)	*****		IC950	8-759-333-83	IC NJM2103D																																																																					
A-4428-392-A	STANDBY BOARD, COMPLETE (DE345:CH)	*****				< TRANSISTOR >																																																																					
A-4428-395-A	STANDBY BOARD, COMPLETE (DE345:E,EA,PX)	*****		Q901	8-729-119-78	TRANSISTOR 2SC2785TP-HFE																																																																					
A-4428-402-A	STANDBY BOARD, COMPLETE (DE245:AUS)	*****		Q951	8-729-045-21	TRANSISTOR 2SD1513TP-LK																																																																					
A-4428-405-A	STANDBY BOARD, COMPLETE (DE245:SP,MY)	*****				< RESISTOR >																																																																					
A-4428-407-A	STANDBY BOARD, COMPLETE (DE245:E,EA)	*****		△ R901	1-202-725-00	SOLID	3.3M 10% 1/2W																																																																				
A-4428-411-A	STANDBY BOARD, COMPLETE (DE245:AEP,UK,CIS,EE)	*****		R902	1-249-437-11	CARBON	47K 5% 1/4W																																																																				
A-4428-416-A	STANDBY BOARD, COMPLETE (DE345:AEP,CIS,EE)	*****		R903	1-249-425-11	CARBON	4.7K 5% 1/4W F																																																																				
1-533-293-31	FUSE HOLDER			R950	1-249-421-11	CARBON	2.2K 5% 1/4W F																																																																				
	< CAPACITOR >			R951	1-249-428-11	CARBON	8.2K 5% 1/4W F																																																																				
△ C920	1-161-494-00	CERAMIC	0.022uF 25V	R952	1-249-422-11	CARBON	2.7K 5% 1/4W F																																																																				
△ C921	1-161-494-00	CERAMIC	0.022uF 25V	R953	1-247-863-91	CARBON	22K 5% 1/4W																																																																				
C950	1-126-767-11	ELECT	1000uF 20.00% 16V	R954	1-249-437-11	CARBON	47K 5% 1/4W																																																																				
C951	1-161-494-00	CERAMIC	0.022uF 25V	R955	1-249-429-11	CARBON	10K 5% 1/4W																																																																				
C952	1-126-960-11	ELECT	1uF 20.00% 50V	R956	1-247-843-11	CARBON	3.3K 5% 1/4W																																																																				
C953	1-124-464-11	ELECT	0.22uF 20% 50V	R957	1-249-417-11	CARBON	1K 5% 1/4W F																																																																				
C954	1-126-964-11	ELECT	10uF 20.00% 50V	R960	1-249-431-11	CARBON	15K 5% 1/4W																																																																				
C955	1-164-159-21	CERAMIC	0.1uF 50V			< RELAY >																																																																					
C957	1-164-159-21	CERAMIC	0.1uF 50V	RY901	1-755-276-11	RELAY, POWER																																																																					
C958	1-164-159-21	CERAMIC	0.1uF 50V			< TRANSFORMER >																																																																					
	< CONNECTOR >			△ T902	1-435-281-11	TRANSFORMER, POWER (DE245:MX/DE345:US,CND,MX)																																																																					
CN901	1-691-766-11	PLUG (MICRO CONNECTOR) 4P		△ T902	1-435-282-11	TRANSFORMER, POWER (DE245:AEP,UK,AUS,CIS,EE,SP,MY/DE345:AEP,AUS,SP,MY,AR,CIS,EE,CH)																																																																					
CNP901	1-564-321-00	PIN, CONNECTOR 2P		△ T902	1-435-283-11	TRANSFORMER, POWER (DE245:E,EA/DE345:E,EA,PX)																																																																					
CNP906	1-568-106-11	PIN, CONNECTOR 4P (DE245:E,EA/DE345:E,EA,PX)				*****																																																																					
	< DIODE >																																																																										
D901	8-719-991-33	DIODE 1SS133T-77		1-676-803-11	TUNING BOARD																																																																						
D910	8-719-200-82	DIODE 11ES2-NTA1B		D911	8-719-200-82	DIODE 11ES2-NTA1B						D912	8-719-200-82	DIODE 11ES2-NTA1B						D913	8-719-200-82	DIODE 11ES2-NTA1B						D914	8-719-991-33	DIODE 1SS133T-77						D915	8-719-991-33	DIODE 1SS133T-77							< FUSE >							△ F901	1-532-285-00	FUSE (1.25A) (AEP,UK,AUS,CIS,EE,SP,MY,CH)						△ F901	1-532-388-51	FUSE (2A) (E,EA)						△ F901	1-532-748-11	FUSE (6.3A) (US,CND)					
D911	8-719-200-82	DIODE 11ES2-NTA1B																																																																									
D912	8-719-200-82	DIODE 11ES2-NTA1B																																																																									
D913	8-719-200-82	DIODE 11ES2-NTA1B																																																																									
D914	8-719-991-33	DIODE 1SS133T-77																																																																									
D915	8-719-991-33	DIODE 1SS133T-77																																																																									
	< FUSE >																																																																										
△ F901	1-532-285-00	FUSE (1.25A) (AEP,UK,AUS,CIS,EE,SP,MY,CH)																																																																									
△ F901	1-532-388-51	FUSE (2A) (E,EA)																																																																									
△ F901	1-532-748-11	FUSE (6.3A) (US,CND)																																																																									

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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
***** ACCESSORIES & PACKING MATERIALS *****							
***** HARDWARE LIST *****							
1-418-833-11	REMOTE COMMANDER (DE245)			#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
1-501-594-11	ANTENNA (FM)			#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
1-501-721-11	ANTENNA (LOOP)			#3	7-685-881-09	SCREW +BVTT 4X8 (S)	
1-793-184-21	CONNECTOR (F TYPE ADAPTOR) (DE245:E,EA,MX/DE345:US,CND,E,EA,PX,MX,AR)						
4-227-866-11	MANUAL, INSTRUCTION (ENGLISH) (DE345:US,CND,E,EA,PX,AUS,SP,MY,CH)						
4-227-866-21	MANUAL, INSTRUCTION (FRENCH,SPANISH) (DE345:CND,E,EA,PX,SP,MY)						
4-227-866-31	MANUAL, INSTRUCTION (CHINESE) (DE345:E,EA,PX,SP,MY,CH)						
4-227-866-41	MANUAL, INSTRUCTION (ENGLISH, POLISH, RUSSIAN) (DE345:CIS,EE)						
4-227-866-51	MANUAL, INSTRUCTION (DANISH, FINNISH) (DE345:AEP)						
4-227-866-61	MANUAL, INSTRUCTION (DUTCH, SWEDISH, GERMAN, ITALIAN, PORTUGUESE) (DE345:AEP)						
4-227-866-71	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (DE345:AEP)						
4-227-866-81	MANUAL, INSTRUCTION (ENGLISH, TURKISH) (DE345:CIS,EE)						
4-227-986-11	INSTRUCTION MANUAL (ENGLISH) (DE345:US)						
4-227-986-21	INSTRUCTION MANUAL (ENGLISH, FRENCH, SPANISH, CHINESE) (DE245:AUS,E,EA,MX,SP,MY/ DE345:CND,E,EA,MX,PX,AUS,SP,MY,AR)						
4-227-986-31	INSTRUCTION MANUAL (CHINESE) (DE345:CH)						
4-227-986-41	INSTRUCTION MANUAL (ENGLISH, FRENCH, DUTCH, SWEDISH) (DE245:AEP, UK/DE345:AEP)						
4-227-986-51	INSTRUCTION MANUAL (GERMAN, SPANISH, ITALIAN, PORTUGUESE) (DE245:AEP, UK/DE345:AEP)						
4-227-986-61	INSTRUCTION MANUAL (ENGLISH, RUSSIAN, POLISH) (DE245:CIS,EE/DE345:CIS,EE)						
4-227-986-71	INSTRUCTION MANUAL (ENGLISH, TURKISH) (DE245:CIS,EE/DE345:CIS,EE)						
8-917-423-90	REMOTE COMMANDER RM-PP404 SET (DE345)						
4-228-696-01	REMOTE COVER (DE245)						
4-978-977-01	REMOTE COVER (DE345)						
