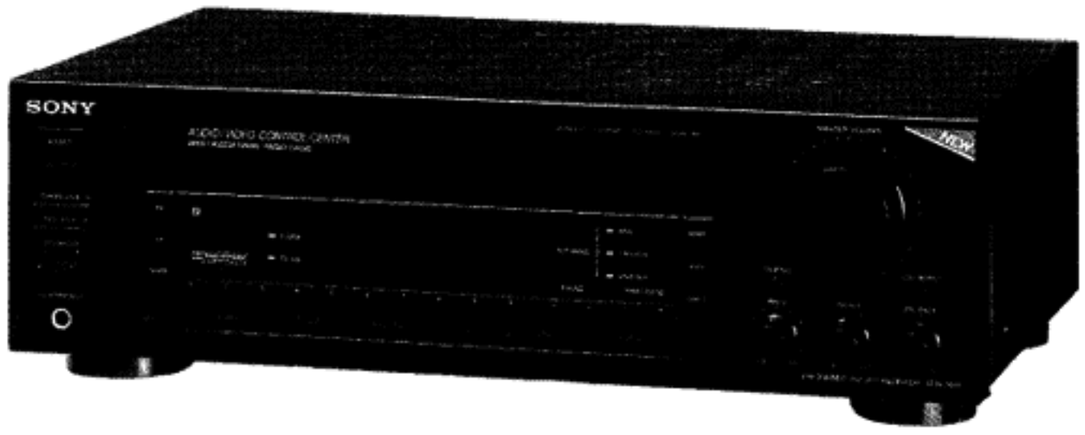
STR-D515/D615

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
Australian Model
STR-D515/D615
E Model
STR-D615
Mexican Model
STR-D515



This photo is STR-D615.

SPECIFICATIONS

(For US and Canadian models)

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 40 - 20,000 Hz, rated 100 watts (STR-D615) or 70 watts (STR-D515) per channel minimum RMS power, with less than 0.8% total harmonic distortion from 250 milliwatts to rated output.

SUR (surround) MODE (8 ohms, less than 0.8% total harmonic distortion)

	STR-D615	STR-D515
FRONT	70W+70W	70W+70W
CENTER (only in the DOLBY mode)	70W	20W
REAR (PARALLEL USE)	20 W	20W

Other Specifications

Amplifier section

Continuous RMS power output (8 ohms, at 40 Hz - 20 kHz less than 0.8% total harmonic distortion) (FRONT)
STR-D615: 100W+100W
STR-D515: 70W+ 70W

Dynamic power (at 1 kHz IHF) (FRONT)
STR-D615: 140W+140W(8 ohms), 210W+210W(4 ohms)
STR-D515: 75W+ 75W(8 ohms), 140W+140W(4 ohms)

Harmonic distortion
Less than 0.8% at rated output

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

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	−75dB −75dB*(A, 2.5mV)
CD	300 mV	50 kilohms	82dB 82dB*(A, 500mV)
VIDEO, TV/ LD, TAPE/MD	250mV		

* '78 IHF

Outputs

REC OUT, VIDEO (AUDIO) OUT	Voltage 250mV Impedance 10 kilohms
HEADPHONES	Accepts low and high impedance headphones

Tone controls
BASS: ±8 dB at 100 Hz
TREBLE: ±8 dB at 10 kHz

Muting
−20 dB

DBFB
+10 dB at 70 Hz

—Continued on next page—

FM STEREO/FM-AM RECEIVER

SONY®

Video section

INPUT	VIDEO, TV/LD	1 Vp-p 75 ohms
OUTPUT	VIDEO MONITOR	1 Vp-p 75 ohms

Tuner section

	FM tuner section	AM tuner section
Tuning range	87.5 — 108 MHz	530 – 1710 kHz (10 kHz step) 531 – 1602 kHz (9 kHz step)
Antenna terminals	300 ohms,balanced 75 ohms, unbalanced	External antenna terminal
Sensitivity at 50 dB quieting	18.3 dBf, 4.5 µV (mono) 38.3 dBf, 45 µV (stereo)	—
Usable sensitivity	11.2 dBf, 2 µV (IHF)	Loop antenna: 500 µV (at 1,000 kHz)
Signal-to-noise ratio	76 dB (mono) 70 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.3% (mono), 0.5% (stereo) at 1 kHz	0.5% (at 50 mV/m, 400 Hz)
Selectivity	60 dB at 400 kHz	40 dB at 10 kHz
Separation	45 dB at 1 kHz	—
Frequency response	30 Hz — 15 kHz $^{+0.5}_{-2}$ dB	—

General

System
- Tuner section: PLL quartz-locked digital synthesizer system
- Preamplifier section: low-noise NF type equalizer amp
- Power amplifier section: pure complementary SEPP

Power requirements
- 120 V AC, 60 Hz

Power consumption
- US model: 186W (STR-D615)
  170W (STR-D515)
- Canadian model: 290VA (STR-D615)
  195W (STR-D515)

AC outlet
- One switched (120 W/1A Max.)

Dimensions
- Approx. 430 x 135 x 295 mm (w/h/d) (17 x 5 $^3/_8$ x 11 $^5/_8$ inches) including projecting parts and controls

Mass
- Approx. 7.2kg (16lb 2 oz) (STR-D615)
- Approx. 6.3kg (13lb 15 oz) (STR-D515)

Accessories supplied
- FM wire antenna (1)
- AM loop antenna (1)
- Remote Commander RM-U242 (1)
- Sony batteries SUM-3(NS) (2)

Design and specifications are subject to change without notice.

(For AEP, UK, G, E, MX and Australian models)

Amplifier section

Continuous RMS power output (8 ohms (EXCEPT AEP1, G) 4Ω (AEP1, G), at 1 kHz less than 0.8% total harmonic distortion) (FRONT)
- STR-D615: 80W+80W (EXCEPT AEP1, G)
  110W+110W (4Ω)(AEP1, G)
- STR-D515: 60W+60W (EXCEPT AEP1, G)
  85W+85W (4Ω)(AEP1, G)

Harmonic distortion
- Less than 0.8% at rated output

SUR (surround) MODE (8 ohms, less than 0.8% total harmonic distortion)

	STR-D615	STR-D515
FRONT	50W+50W (70W+70W)	60W+60W (85W+85W)
CENTER (only in the DOLBY mode)	50W (70W)	20W (20W)
REAR (PARALLEL USE)	20 W	20W

( ): AEP1, G

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

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	75dB 75dB*(A, 5.0mV)
CD	300 mV	50 kilohms	82dB 82dB*(A, 500mV)
VIDEO, TV/ LD, TAPE/MD	250mV		

* '78 IHF

Outputs

REC OUT, VIDEO (AUDIO) OUT	Voltage 250mV Impedance 10 kilohms
HEADPHONES	Accepts low and high impedance headphones

Tone controls
- BASS: ±8 dB at 100 Hz
- TREBLE: ±8 dB at 10 kHz

Muting
- –20 dB

DBFB
- +10 dB at 70 Hz

Video section

INPUT	VIDEO, TV/LD	1 Vp-p 75 ohms
OUTPUT	VIDEO MONITOR	1 Vp-p 75 ohms

Tuner section (EXCEPT MX)

	FM tuner section	AM tuner section
Tuning range	87.5 — 108 MHz	531 — 1,602 kHz
Antenna terminals	300 ohms, balanced 75 ohms, unbalanced	External antenna terminal
Sensitivity at 46 dB quieting	18.3 dBf, 2.25μV (mono) 38.3 dBf, 22.5μV (stereo)	—
Usable sensitivity	11.2 dBf, 2μV (IHF)	Loop antenna: 500 μV (at 999 kHz)
Signal-to-noise ratio	70 dB (mono) 66 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.3% (mono), 0.5% (stereo) at 1 kHz	0.5% (at 50 mV/m, 400 Hz)
Selectivity	60 dB at 400 kHz	30 dB at 9 kHz
Separation	45 dB at 1 kHz	—
Frequency response	30 Hz — 15 kHz $^{+0.5}_{-2}$ dB	—

Tuner section (MX)

	FM tuner section	AM tuner section
Tuning range	87.5 — 108 MHz	530 – 1710 kHz (10 kHz step) 531 – 1602 kHz (9 kHz step)
Antenna terminals	300 ohms,balanced 75 ohms, unbalanced	External antenna terminal
Sensitivity at 50 dB quieting	18.3 dBf, 4.5 μV (mono) 38.3 dBf, 45 μV (stereo)	—
Usable sensitivity	11.2 dBf, 2 μV (IHF)	Loop antenna: 500 μV (at 1,000 kHz)
Signal-to-noise ratio	76 dB (mono) 70 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.3% (mono), 0.5% (stereo) at 1 kHz	0.5% (at 50 mV/m, 400 Hz)
Selectivity	60 dB at 400 kHz	40 dB at 10 kHz
Separation	45 dB at 1 kHz	—
Frequency response	30 Hz — 15 kHz $^{+0.5}_{-2}$ dB	—

General

System
- Tuner section: PLL quartz-locked digital synthesizer system
- Preamplifier section: low-noise NF type equalizer amp
- Power amplifier section: pure complementary SEPP

Power requirements
- 220—230V AC, 50/60Hz (for AEP, G model)
- 120/220/240V, 50/60Hz (for E model)
- 240V AC, 50Hz (for Australian model)
- 240V AC, 50/60Hz (for UK model)
- 120V AC, 60Hz (for MX model)

Power consumption
- 165W (EXCEPT AEP1, G)
- 230V (AEP1, G)
- In standby condition: 5 W

AC outlet
- One switched (100 W Max.)

Dimensions
- Approx. 430 x 135 x 295 mm (w/h/d) (17 x 5 3/8 x 11 5/8 inches) including projecting parts and controls

Mass
- Approx. 6.9 kg (15 lb 4 oz) (STR-D615)
- Approx. 6.4 kg (14 lb 2 oz) (STR-D515)

Accessories supplied
- FM wire antenna (1)
- AM loop antenna (1)
- Remote Commander RM-P342 (1) (EXCEPT MX)
- Remote Commander RM-U242 (1) (MX)
- Sony batteries SUM-3(NS) (2)

Design and specifications are subject to change without notice.

- Abbreviations

AEP1 : Without recognition mark model
G : German model
MX : Mexican model

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). 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)

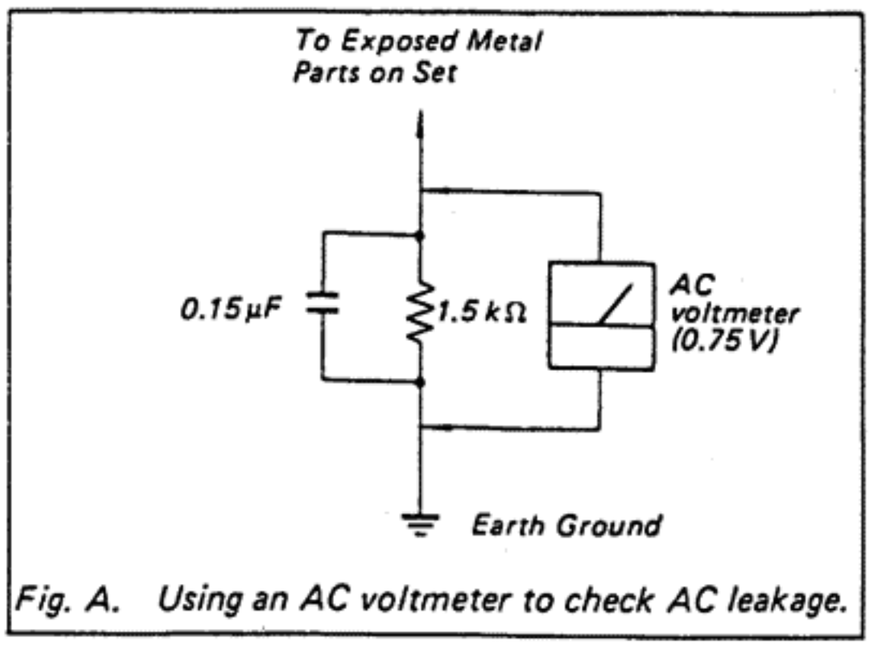
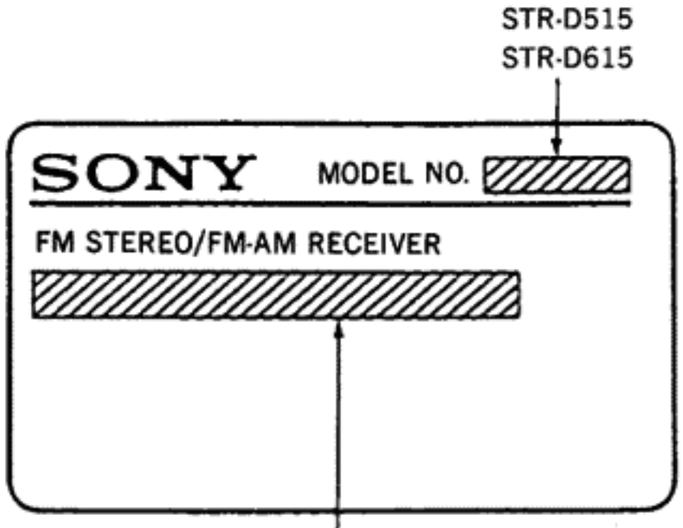


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

—Specification Label—



D515 : US model	: AC 120V 60Hz 170W
D615 : US model	: AC 120V 60Hz 186W
D515 : Canadian model	: AC 120V 60Hz 195W
D615 : Canadian model	: AC 120V 60Hz 290VA
Australian model	: AC 240V~50Hz 165W
AEP1, German model	: AC 220—230V~50/60Hz 230W
AEP2 model	: AC 220—230V~50/60Hz 165W
E model	: AC 120/220/240V~50/60Hz 165W
UK model	: AC 240V~50/60Hz
Mexican model	: ~120V 60Hz 165W

- Abbreviations
  AEP1 : Without recognition mark model
  AEP2 : With recognition mark model

TABLE OF CONTENTS

Section *Title* *Page*

1. GENERAL
- Identifying the Parts and Controls 5

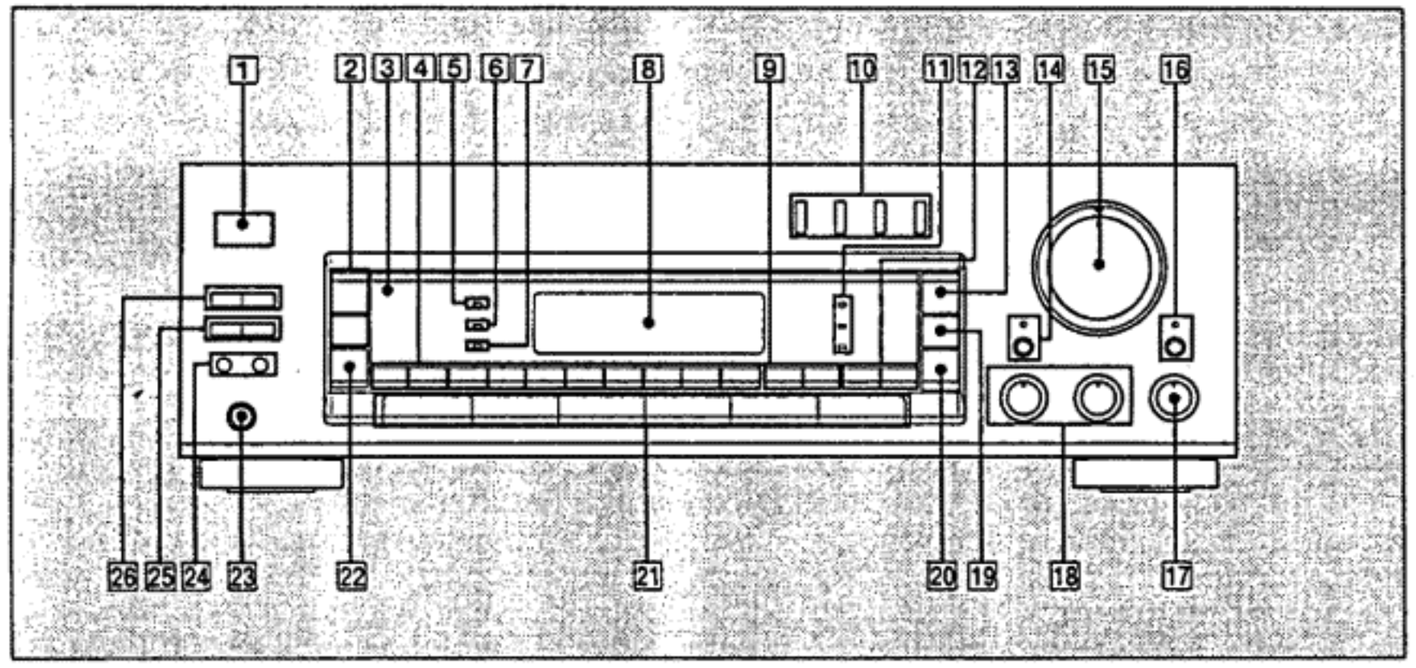
2. DIAGRAMS
2-1. Circuit Boards Location 6
2-2. Semiconductor Lead Layouts 8
2-3. Printed Wiring Boards—Main Section (D515)— 9
2-4. Printed Wiring Boards—Main Section (D615)— 13
2-5. Schematic Diagram—Main Section— 17
2-6. Schematic Diagram—Display Section— 21
2-7. Printed Wiring Boards—Display Section— 25

3. EXPLODED VIEWS
3-1. Front Panel Section 29
3-2. Chassis Section 30

4. ELECTRICAL PARTS LIST 32

Identifying the Parts and Controls

Front Panel



1 **POWER switch**

2 **FM/AM band selectors** (See pages 9 and 10.)

3 **Remote sensor**

4 **Numeric buttons** (See pages 9, 10 and 11.)

5 **STANDBY indicator**
(for U.K. and Australian models only)
The STANDBY indicator lights up when the power cord is connected and the POWER switch is set to off.

6 **VIDEO indicator**

7 **TV/LD indicator** (See page 14.)

8 **Display window**

9 **TUNING –/+ buttons** (See page10.)

10 **SUR (surround) ON/OFF button**
(See pages 15, 17 and 18.)
SUR (surround) MODE button
(See pages 15, 17 and 18.)
CENTER MODE button
(See pages 15, 16 and 17.)
DELAY TIME button (See page 18.)

11 **SUR (surround) MODE indicators** (See page 15.)

12 **PRESET TUNING –/+ buttons** (See page 11.)

13 **MEMORY button** (See page 10.)

14 **MUTING button and indicator** (See page 8.)

15 **MASTER VOLUME control** (See page 8.)

16 **LOW BOOST button and indicator** (See page 8.)

17 **BALANCE control** (See page 8.)

18 **BASS/TREBLE controls** (See page 8.)

19 **SHIFT button** (See pages 10 and 11.)

20 **DIRECT button** (See page 9.)

21 **Function selectors** (See page 8.)

22 **FM MODE button** (See page 9.)

23 **HEADPHONES jack** (See page 8.)

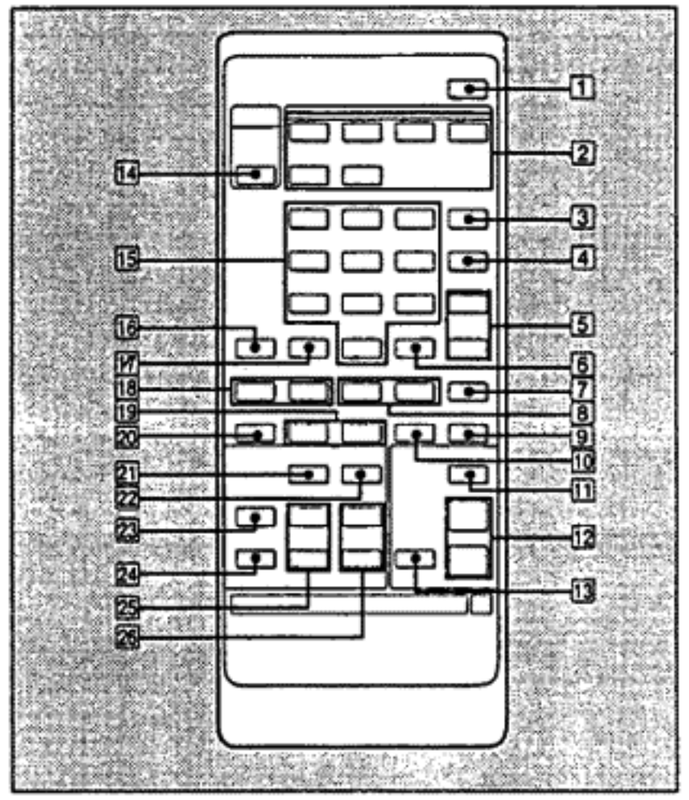
24 **SPEAKERS A/B buttons** (See page 8.)

25 **REAR LEVEL –/+ buttons** (See pages 17 and 18.)

26 **CENTER LEVEL –/+ buttons** (See pages 17 and 18.)

Identifying the Parts and Controls

Remote Commander (For U.S.A. and Canadian models



1 SYSTEM OFF button (See page 12.)

2 SYSTEM CONTROL/FUNCTION
TAPE/MD, CD, TUNER, PHONO, VIDEO, TV/LD buttons (See pages 8, 12 and 14.)

3 VISUAL POWER button: Turns on/off the power of TV, VTR and LD player. (See page 13.)

4 TV/VIDEO selector: Switches the input of TV. (See pages 12 and 13.)

5 CH/PRESET +/– buttons (See page 13.)

6 RMS/START, ENTER button (See pages 12 and 13.)

7 ANT TV/VTR, D (disc) SKIP button (See pages 12 and 13.)

8 ⏮, ⏭ button (See pages 12 and 13.)

9 ● button (See pages 12 and 13.)

10 ⏸ button (See pages 12 and 13.)

11 LOW BOOST button (See pages 8 and 14.)

12 MASTER VOL +/– buttons (See page 8.)

13 MUTING button (See page 8.)

14 TV CONTROL ON button (See page 12.)

15 Numeric buttons (1 to 0) (See pages 9, 11, 12 and 13.)

16 BACK GROUND button (See page 13.)

17 > 10, SHIFT button (See pages 11, 12 and 13.)

18 ◀◀, ▶▶ button (See pages 12 and 13.)

19 ◀, ▶ RMS DIRECTION buttons (See pages 12 and 13.)

20 RMS CLEAR, ■ button (See pages 12 and 13.)

21 SURROUND MODE button (See pages 15, 17 and 18.)

22 SURROUND ON/OFF button (See pages 15, 17 and 18.)

23 DELAY TIME button (See page 18.)

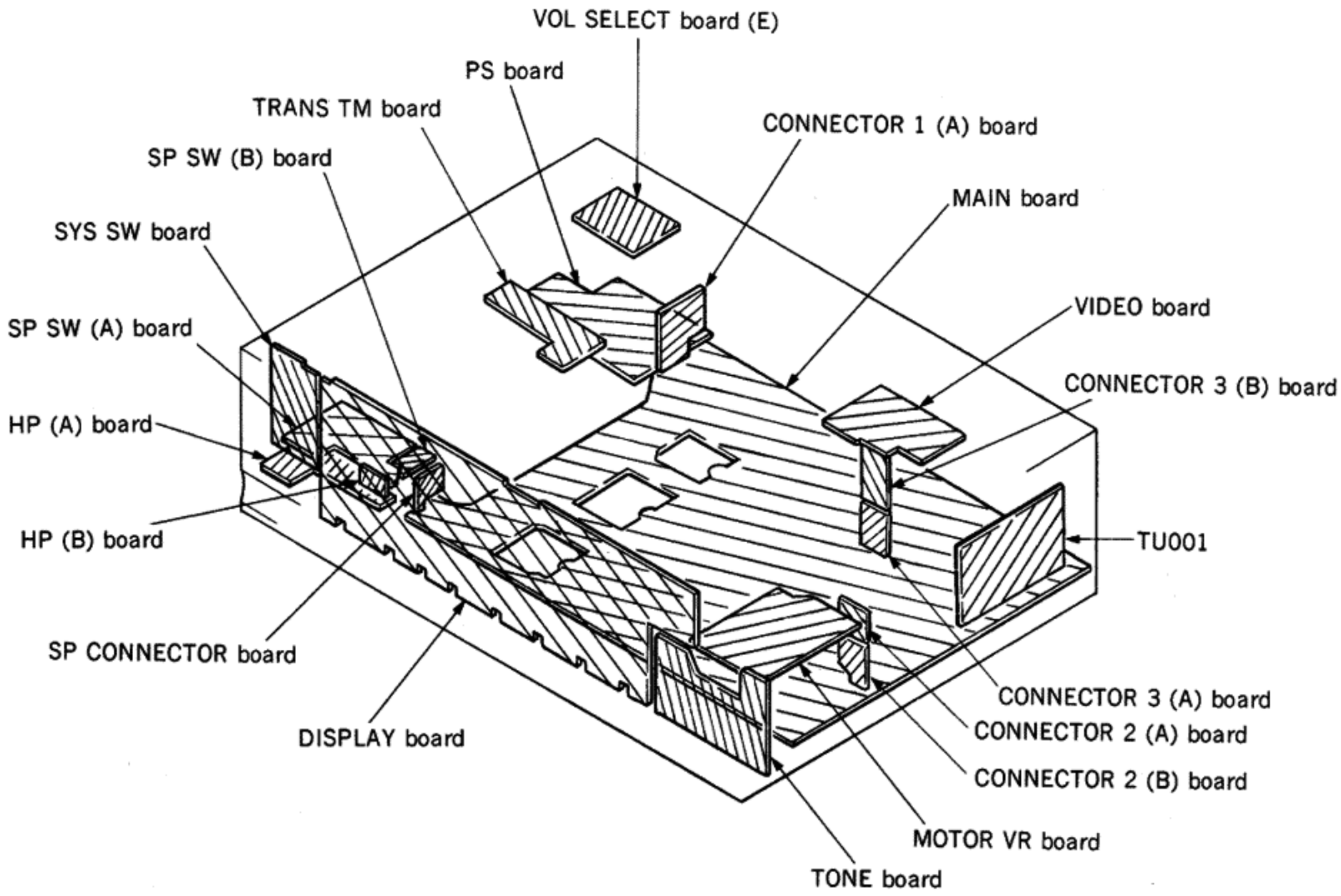
24 TEST TONE button (See page 17.)

25 REAR LEVEL +/– buttons (See pages 17 and 18.)

26 CENTER LEVEL +/– buttons (See pages 17 and 18.)

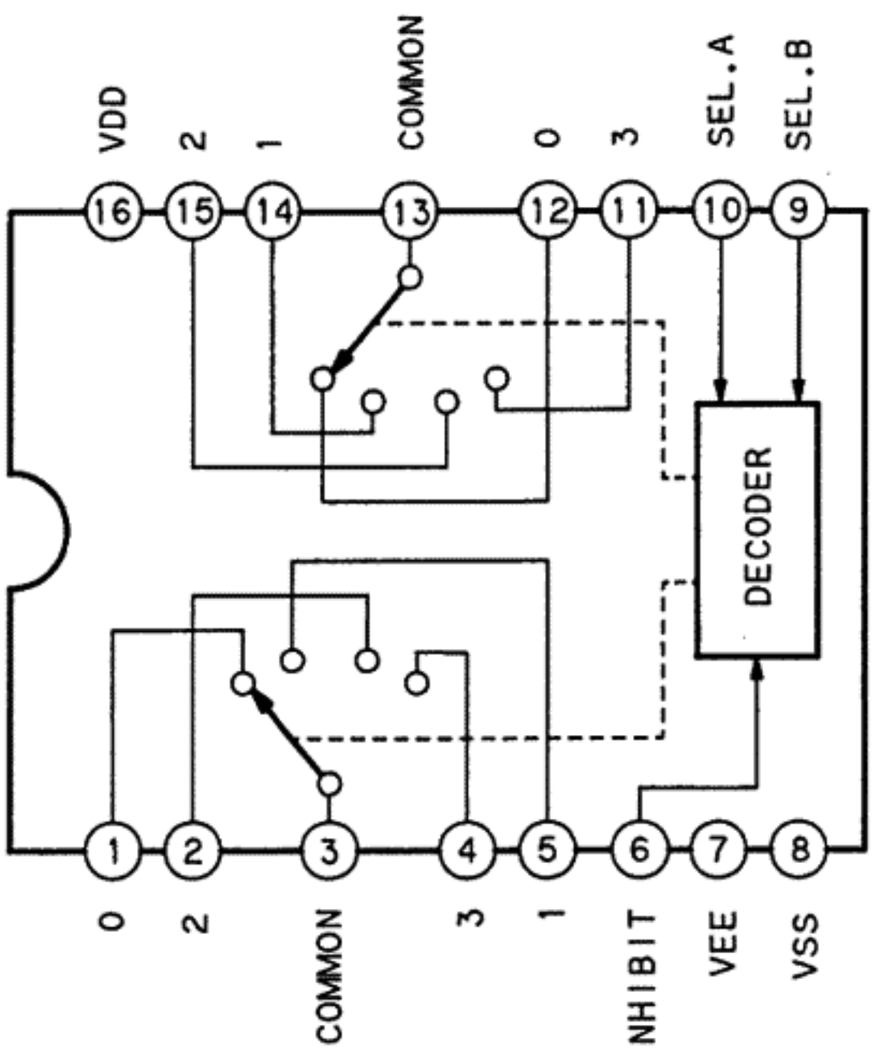
SECTION 2
DIAGRAMS

2-1. CIRCUIT BOARDS LOCATION

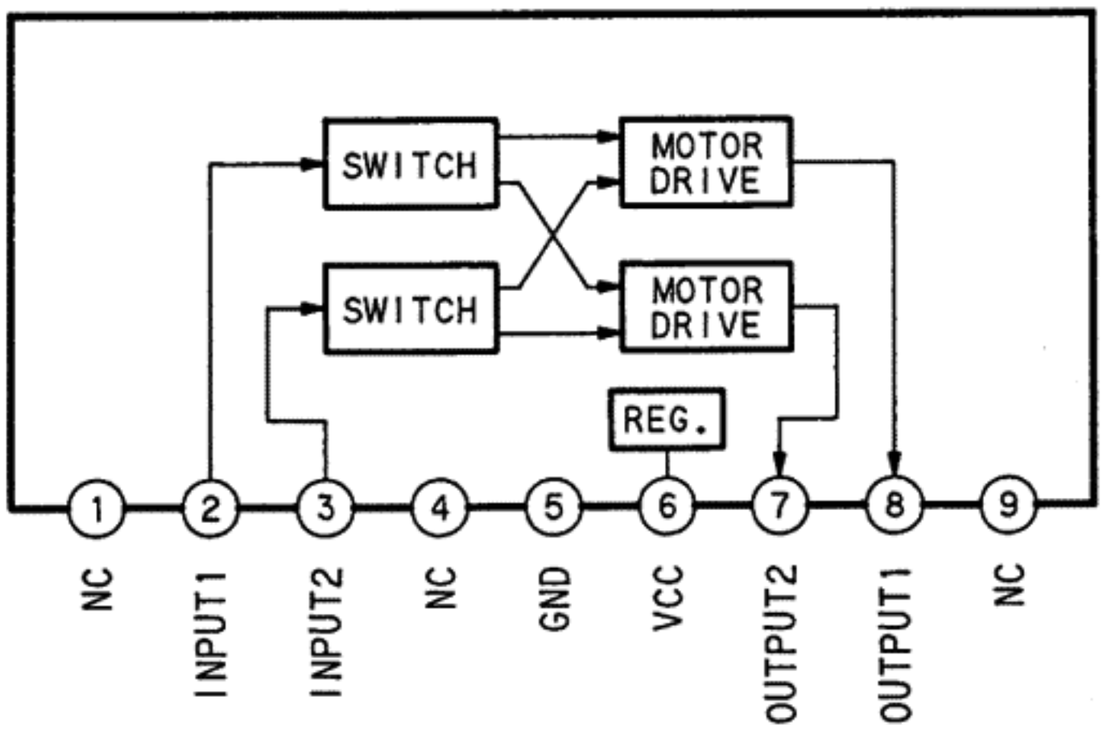


• IC Block Diagrams

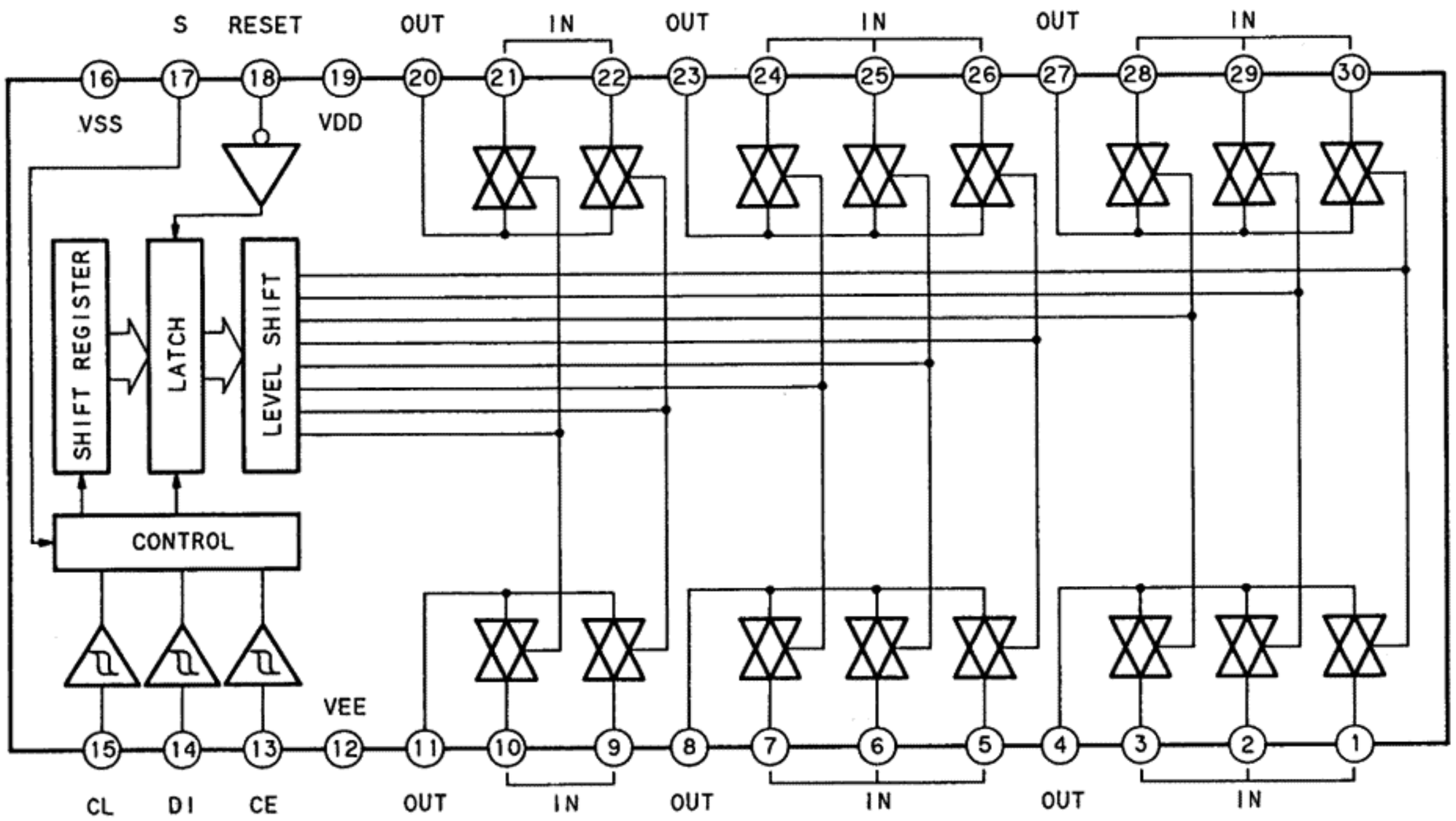
IC251 MC14052BCP



IC203 BA6208

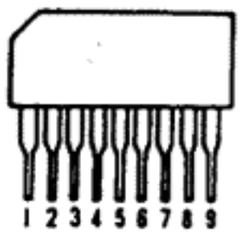


IC401 LC7822

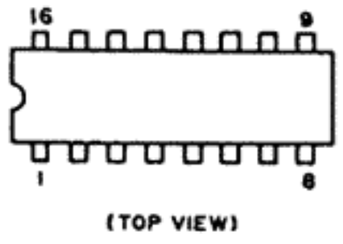


2-2. SEMICONDUCTOR LEAD LAYOUTS

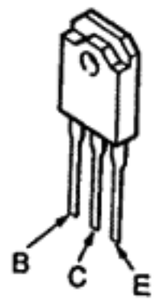
BA6208



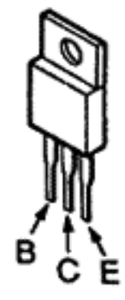
MC14052BCP



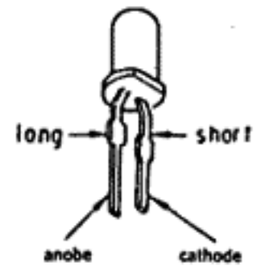
MP1620-OPY-M



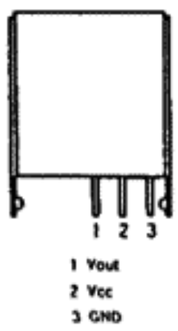
2SD2012



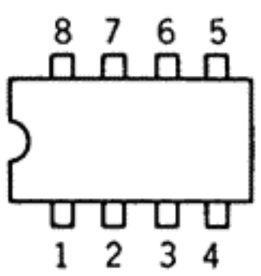
SEL3210S-CD
SEL3810A-CD



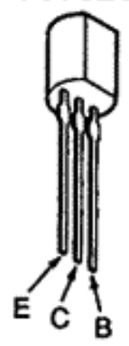
GP1U58XB



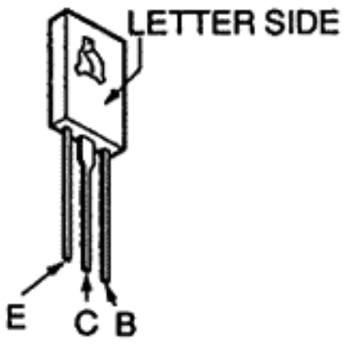
M5218AP-22



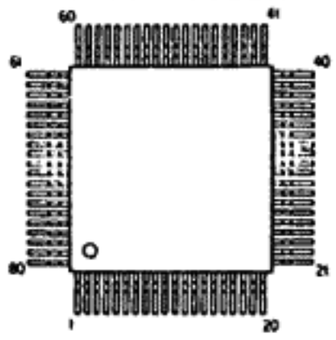
2SA1175-HFE
2SC3623A-LK



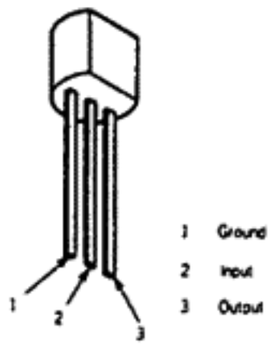
2SD809-K



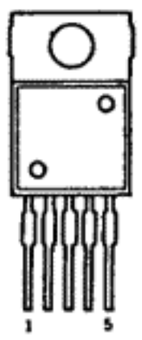
HD6433723B87H
HD6433723C12H



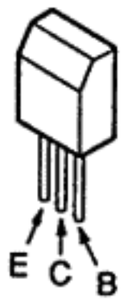
NJM79L12A



SI18752

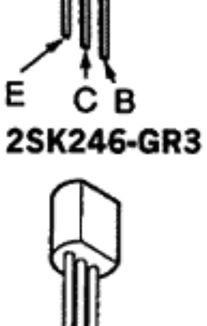


2SA1221-K
2SB734-34
2SC2958



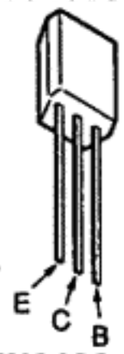
2SK246-GR3

HZS4ALL
HZS6C3L
UZ-5.1BSB
UZL-24L
UZL-9H3
11ES2



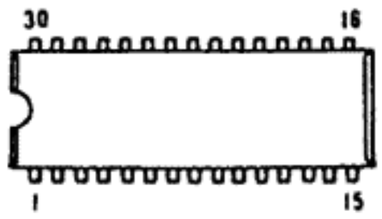
LA2785

DTA124ES
DTC124ES
2SC403SP-51

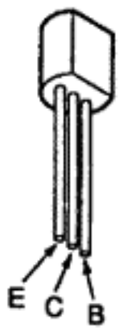


MN2488-OPY-M

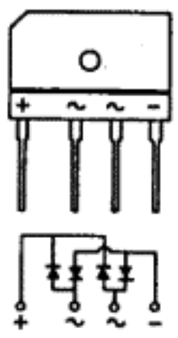
LC7822



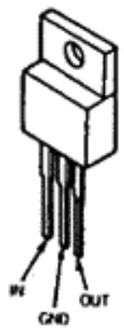
2SA988-PAFAEA
2SC1841-PAFAEA



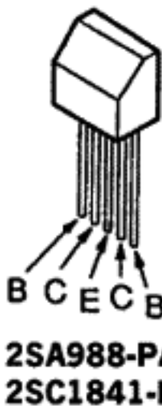
RBA-402
RBV-602-01



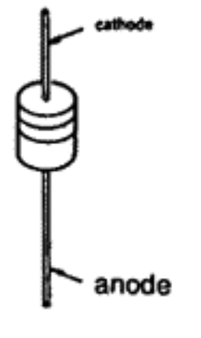
LM78M12



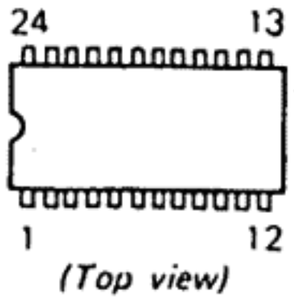
2SB1588-OPY
2SD2439-OPY



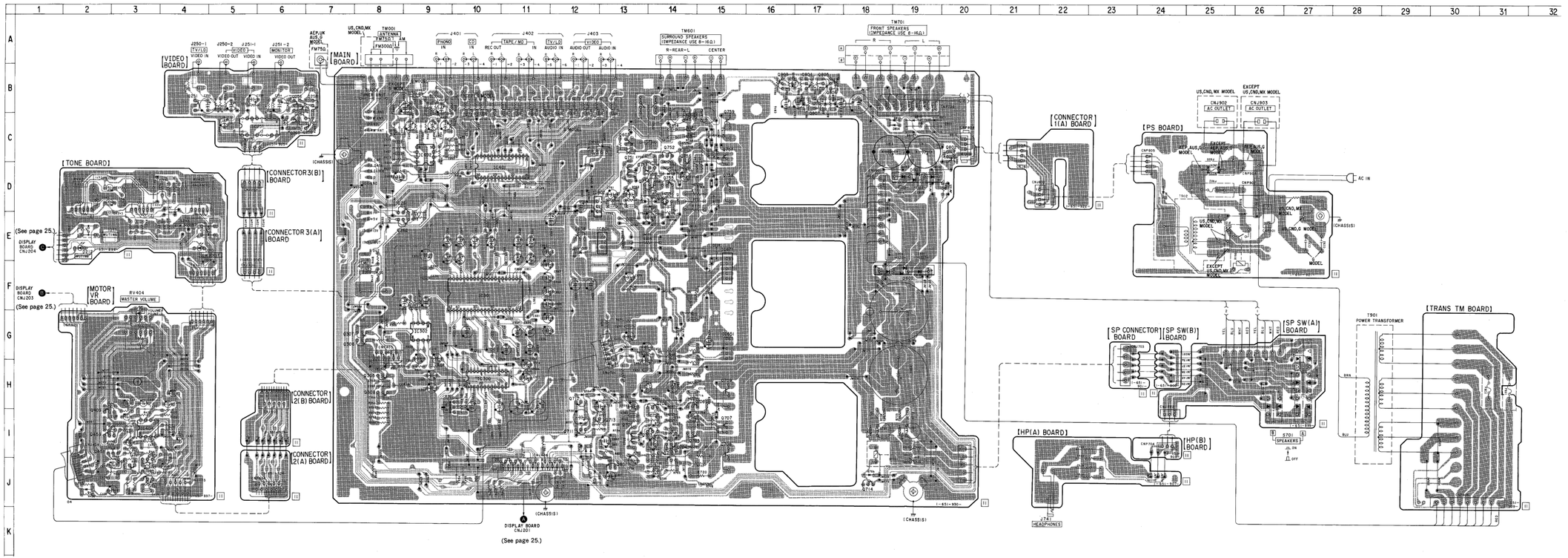
1N4148M
1S1585



LV1010



2-3. PRINTED WIRING BOARDS—MAIN SECTION (D515)—



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D212	E-2	Q259	C-6
D213	E-4	Q260	C-6
D421	J-2	Q261	D-8
D602	C-13	Q262	E-8
D701	I-14	Q305	H-8
D702	I-14	Q306	G-8
D703	J-14	Q307	G-8
D704	H-12	Q308	H-8
D706	I-18	Q401	J-3
D707	I-12	Q402	J-3
D708	I-12	Q403	I-2
D709	I-12	Q451	I-2
D710	H-12	Q452	I-2
D751	D-13	Q453	J-3
D752	D-14	Q603	C-13
D753	E-14	Q701	I-13
D801	I-13	Q702	H-14
D802	D-19	Q703	I-13
D803	F-19	Q704	I-14
D804	J-12	Q705	I-14
D807	B-17	Q706	H-14
D808	B-17	Q707	I-15
D809	B-17	Q708	I-15
D810	C-19	Q709	H-15
D811	C-19	Q710	I-14
D812	C-19	Q711	I-12
D813	C-19	Q712	H-12
D814	C-18	Q713	I-13
D815	C-18	Q714	I-18
D816	D-24	Q751	C-13
D817	E-12	Q752	C-14
		Q753	D-13
IC251	C-5	Q754	D-13
IC300	H-10	Q755	D-14
IC301	F-10	Q756	C-14
IC302	G-9	Q757	C-15
IC401	D-10	Q758	D-15
IC402	C-9	Q759	C-15
IC404	I-3	Q760	D-14
IC651	G-15	Q801	J-13
IC671	E-15	Q802	C-20
IC801	E-12	Q803	B-16
IC802	D-12	Q804	B-17
		Q805	B-17
Q251	B-4	Q806	B-17
Q256	B-6	Q807	B-17
Q257	B-6	Q808	E-12
Q258	B-7		

Note :

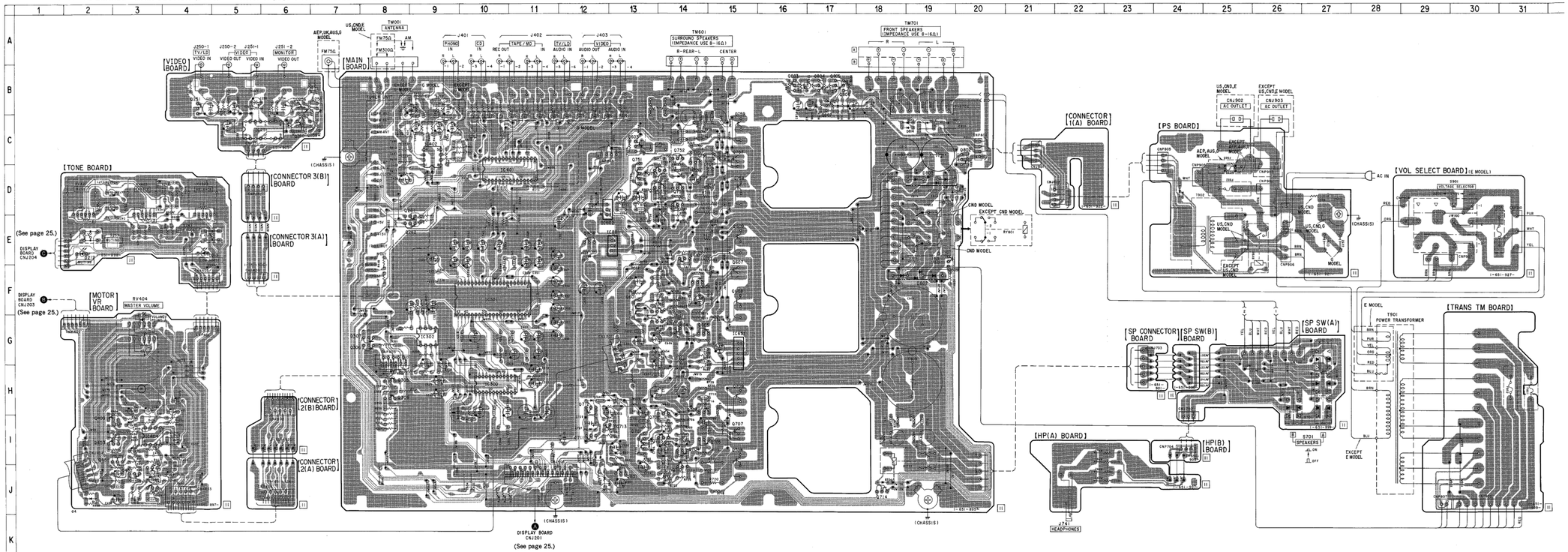
- ○— : parts extracted from the component side.
- ▬ : Pattern on the side which is seen.
- Abbreviations
  CND : Canadian model
  G : German model
  AUS : Australian model
  MX : Mexican model

2-4. PRINTED WIRING BOARDS—MAIN SECTION (D615)— • Refer to page 8 for Semiconductor Lead Layouts.

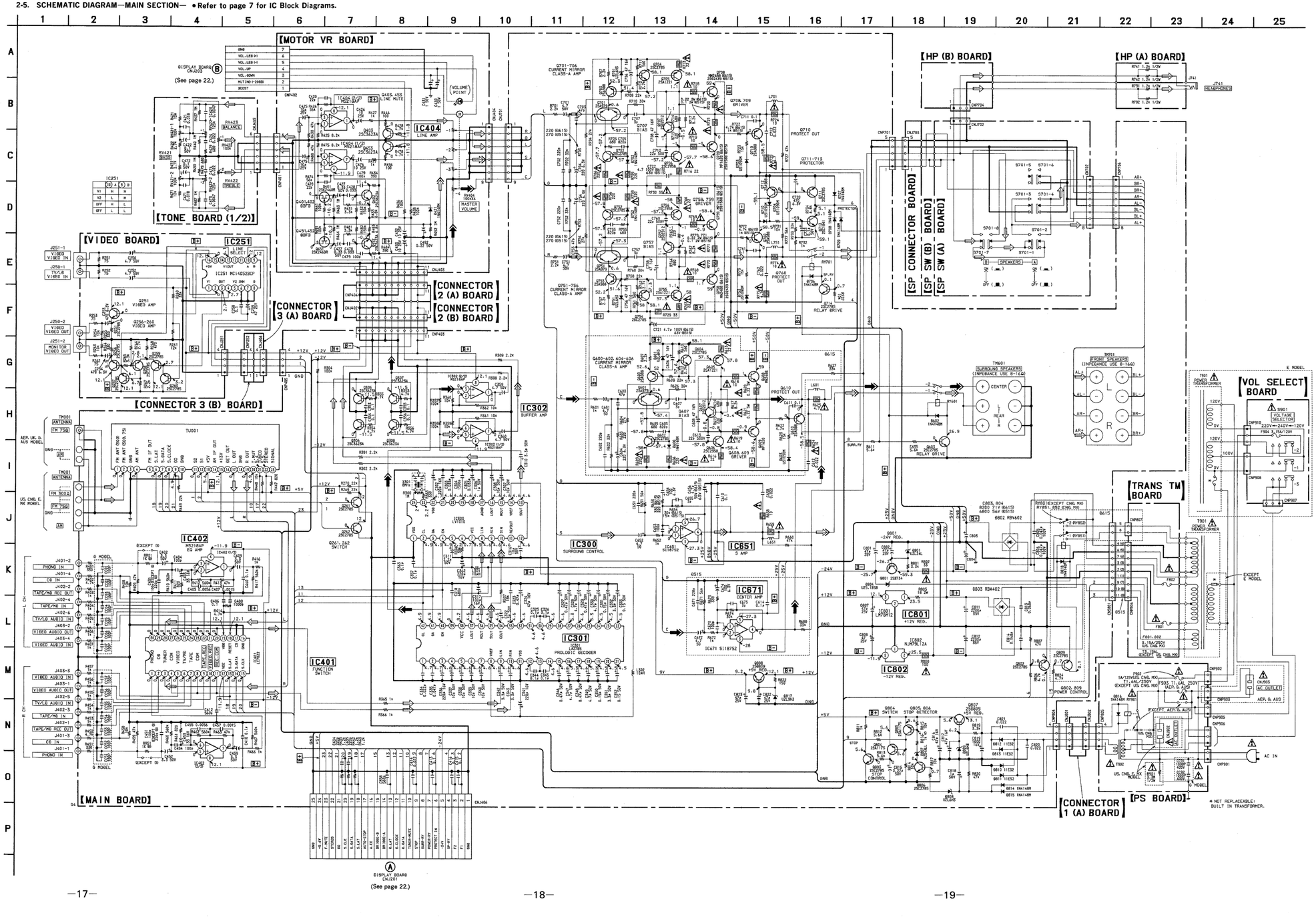
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D212	E-2	Q305	H-8
D213	E-4	Q306	G-8
D421	J-2	Q307	G-8
D600	F-13	Q308	H-8
D601	G-13	Q401	J-3
D602	C-13	Q402	J-3
D603	E-14	Q403	I-2
D701	I-14	Q451	I-2
D702	I-14	Q452	I-2
D703	J-14	Q453	J-3
D704	H-12	Q600	G-13
D706	I-18	Q601	F-13
D707	I-12	Q602	F-13
D708	I-12	Q603	C-13
D709	I-12	Q604	G-14
D710	H-12	Q605	G-14
D751	D-13	Q606	F-14
D752	D-14	Q607	F-15
D753	E-14	Q608	F-15
D801	I-13	Q609	E-15
D802	D-19	Q610	E-14
D803	F-19	Q701	I-13
D804	J-12	Q702	H-14
D807	B-17	Q703	I-13
D808	B-17	Q704	I-14
D809	B-17	Q705	I-14
D810	C-19	Q706	H-14
D811	C-19	Q707	I-15
D812	C-19	Q708	I-15
D813	C-19	Q709	H-15
D814	C-18	Q710	I-14
D815	C-18	Q711	I-12
D816	D-24	Q712	H-12
D817	E-12	Q713	I-13
D818	D-19	Q714	I-18
		Q751	C-13
IC251	C-5	Q752	C-14
IC300	H-10	Q753	D-13
IC301	F-10	Q754	D-13
IC302	G-9	Q755	D-14
IC401	D-10	Q756	C-14
IC402	C-9	Q757	C-15
IC404	I-3	Q758	D-15
IC651	G-15	Q759	C-15
IC801	E-12	Q760	D-14
IC802	D-12	Q801	J-13
		Q802	C-20
Q251	B-4	Q803	B-16
Q256	B-6	Q804	B-17
Q257	B-6	Q805	B-17
Q258	B-7	Q806	B-17
Q259	C-6	Q807	B-17
Q260	C-6	Q808	E-12
Q261	D-8	Q809	E-19
Q262	E-8		

Note :
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviations
  CND : Canadian model
  G : German model
  AUS : Australian model



2-5. SCHEMATIC DIAGRAM—MAIN SECTION— •Refer to page 7 for IC Block Diagrams.

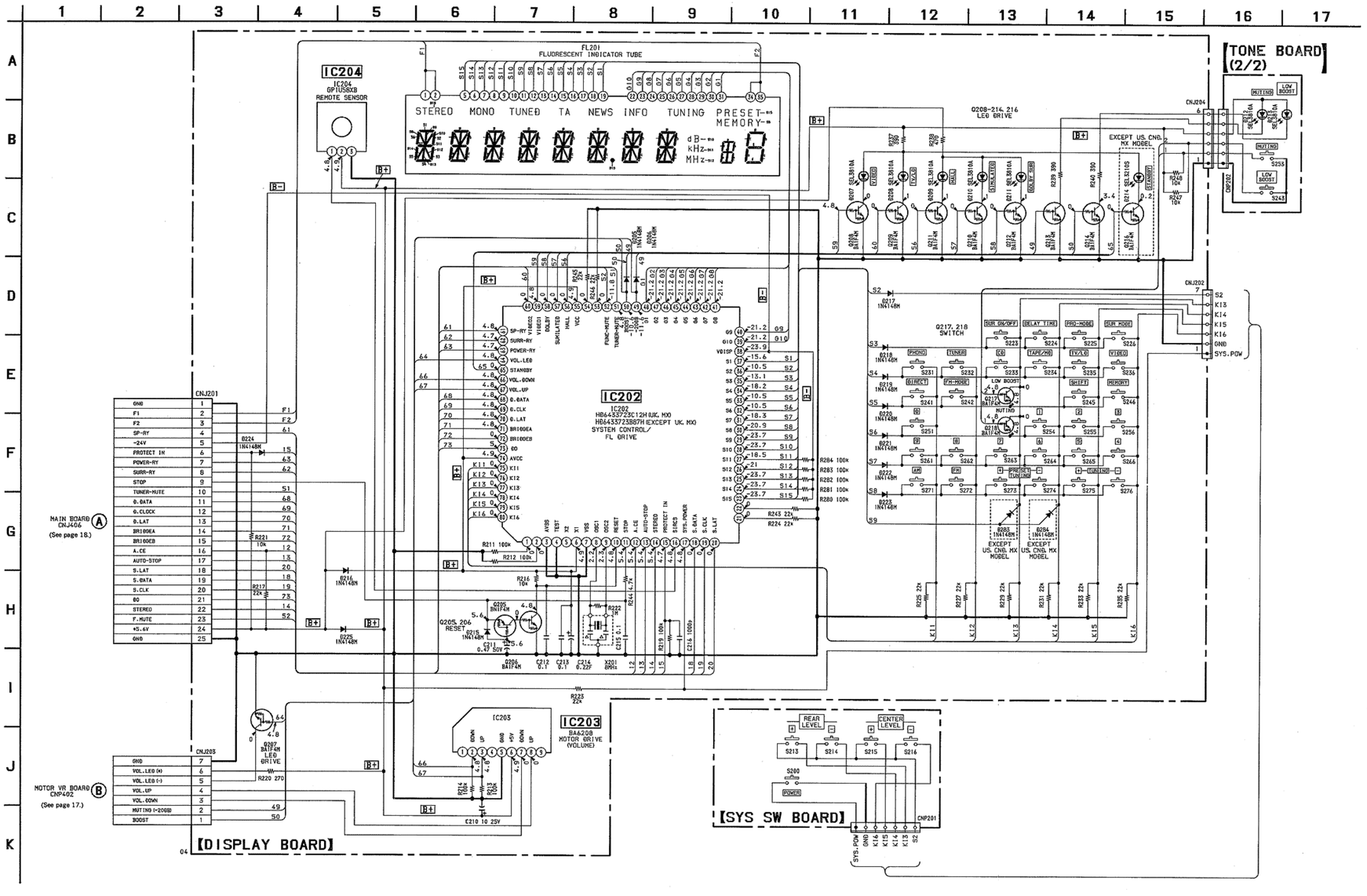


Note :
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.

Note :	**Note :**
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.

- ⊣⊢ : nonflammable resistor.
- B+ : B+ Line
- B− : B− Line
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: PHONO
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : SURROUND
  ➡ : CENTER
- Abbreviations
  CND : Canadian model
  AUS : Australian model
  G : German model
  MX : Mexican model

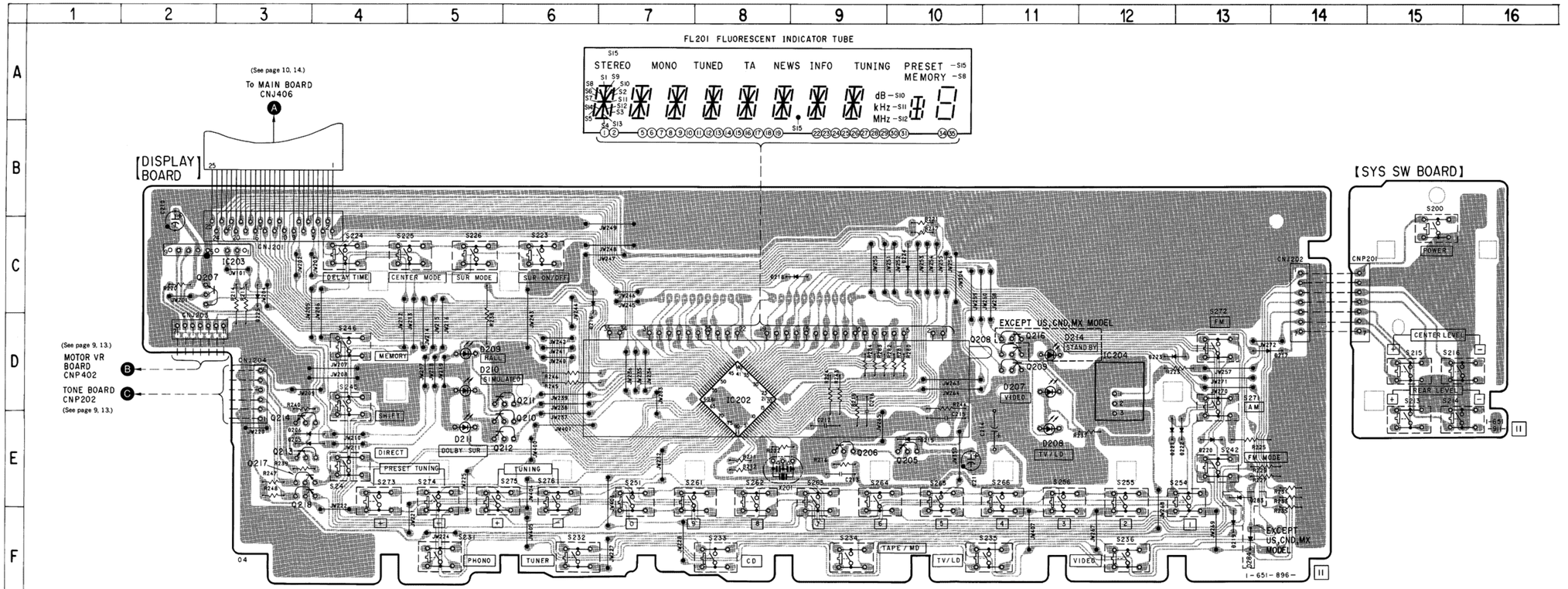
2-6. SCHEMATIC DIAGRAM—DISPLAY SECTION— • Refer to page 7 for IC Block Diagrams.



Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- B− : B− Line
- Voltage is dc with respect to ground under no-signal conditions.
- no mark: PHONO
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Abbreviations
  CND : Canadian model
  MX : Mexican model

2-7. PRINTED WIRING BOARDS—DISPLAY SECTION— • Refer to page 8 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location
D205	E-3
D206	E-3
D207	D-11
D208	E-11
D209	D-5
D210	D-5
D211	E-5
D214	D-11
D215	E-10
D216	D-6
D217	D-13
D218	C-8
D219	F-13
D220	E-13
D221	E-12
D222	E-12
D223	D-12
D224	C-10
D225	C-3
D283	E-13
D284	F-13
IC202	D-8
IC203	C-3
IC204	D-12
Q205	E-10
Q206	E-9
Q207	C-2
Q208	D-11
Q209	D-11
Q210	D-6
Q211	D-6
Q212	E-5
Q213	E-3
Q214	E-3
Q216	D-11
Q217	E-3
Q218	E-3

Note:
- ○— : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.
- Abbreviations
  CND : Canadian model
  MX : Mexican model

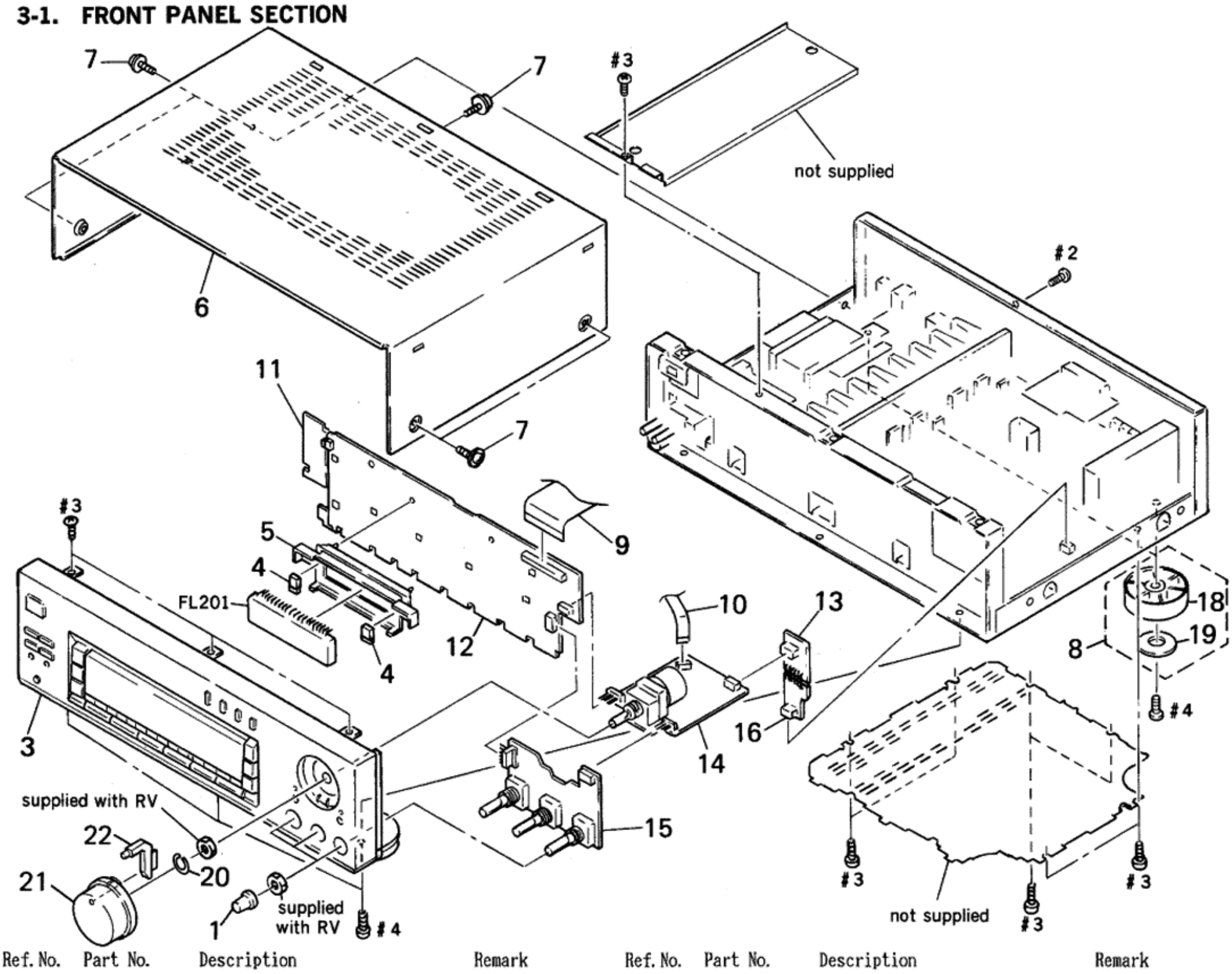
SECTION 3
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviations
  CND : Canadian model
  MX : Mexican model
  G : German model
  AUS : Australian model
  AEP1 : Without recognition mark model
  AEP2 : With recoginition mark model

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

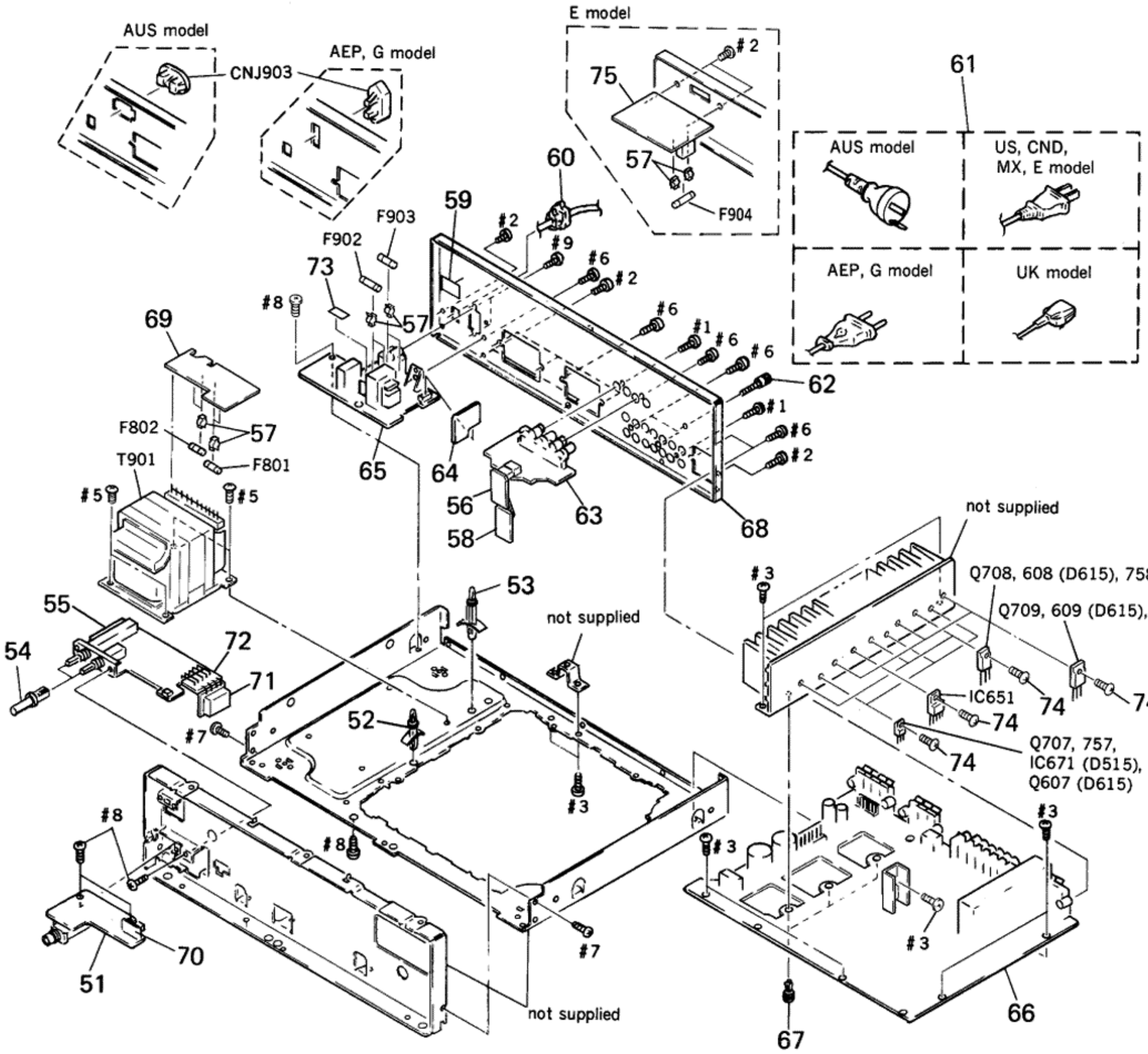
The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

3-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-943-420-01	KNOB (DIA. 19)	
3	X-4944-746-2	PANEL ASSY, FRONT (D515:US, CND, MX)	
3	X-4944-747-2	PANEL ASSY, FRONT (D515:AEP, G, AUS, UK)	
3	X-4944-748-2	PANEL ASSY, FRONT (D615:US, CND)	
3	X-4944-749-2	PANEL ASSY, FRONT (D615:AEP, E, G, AUS, UK)	
* 4	4-921-941-01	CUSHION (FL)	
* 5	4-943-107-11	HOLDER (FL TUBE)	
* 6	4-951-795-01	CASE	
7	3-704-366-01	SCREW (CASE) (M3X8)	
8	X-4941-291-1	FOOT ASSY (F58175S) (US, CND, MX)	
8	X-4941-292-1	FOOT ASSY (F58175S) (AEP, E, G, AUS, UK)	
9	1-765-307-11	WIRE (FLAT TYPE) (25 CORE)	
10	1-765-298-11	WIRE (FLAT TYPE) (9 CORE)	
* 11	1-651-911-11	SYS SW BOARD	
* 12	A-4369-680-A	DISPLAY BOARD, COMPLETE (US, CND, MX)	
* 12	A-4369-698-A	DISPLAY BOARD, COMPLETE (E)	
* 12	A-4369-702-A	DISPLAY BOARD, COMPLETE (AEP, G, AUS, UK)	
* 13	1-651-924-11	CONNECTOR 2 (A) BOARD	
* 14	A-4369-675-A	MOTOR VR BOARD, COMPLETE (D515)	
* 14	A-4369-681-A	MOTOR VR BOARD, COMPLETE (D615)	
* 15	1-651-898-11	TONE BOARD	
* 16	1-651-925-11	CONNECTOR 2 (B) BOARD	
18	3-318-688-31	FOOT (F58175S) (AEP, E, G, AUS, UK)	
18	3-318-688-51	FOOT (F58175S) (US, CND, MX)	
19	4-923-836-21	CUSHION	
20	3-350-426-01	SPRING, RING	
21	4-949-659-01	KNOB (VOL-NEW)	
22	4-958-991-01	PLATE (VOL), LIGHT GUIDE	
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	

3-2. CHASSIS SECTION



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.

Ref. No.	Part No.	Description	Remark
* 51	1-651-907-11	HP (A) BOARD	
* 52	3-346-265-31	HOLDER, PC BOARD	
* 53	4-924-098-31	HOLDER, PC BOARD	
54	4-951-801-01	BUTTON (S)	
* 55	1-651-899-11	SP SW (A) BOARD	
* 56	1-651-910-11	CONNECTOR 3 (B) BOARD	
57	1-533-217-31	HOLDER, FUSE	
* 58	1-651-906-11	CONNECTOR 3 (A) BOARD	
59	3-703-044-26	LABEL, CAUTION (US, CND, MX)	
* 60	3-703-244-00	BUSHING (2104), CORD (EXCEPT E)	
60	3-703-571-11	BUSHING (S) (4516), CORD (E)	
⚠61	1-575-651-11	CORD, POWER (AEP, G)	
⚠61	1-575-653-11	CORD, POWER (E)	
⚠61	1-690-609-11	CORD, POWER (US, CND, MX)	
⚠61	1-696-848-21	CORD, POWER (AUS)	
⚠61	1-751-520-21	CORD, POWER (UK)	
62	4-947-010-01	SCREW, FEEDER FIXED	
* 63	1-651-905-11	VIDEO BOARD	
* 64	1-651-922-11	CONNECTOR 1 (A) BOARD	
* 65	1-651-921-11	PS BOARD	
* 66	A-4369-677-A	MAIN BOARD, COMPLETE (D515:US, CND, MX)	
* 66	A-4369-678-A	MAIN BOARD, COMPLETE (D515:AEP, AUS, UK)	
* 66	A-4369-679-A	MAIN BOARD, COMPLETE (D515:G)	
* 66	A-4369-691-A	MAIN BOARD, COMPLETE (D615:US)	
* 66	A-4369-692-A	MAIN BOARD, COMPLETE (D615:CND)	
* 66	A-4369-694-A	MAIN BOARD, COMPLETE (D615:AEP, AUS, UK)	
* 66	A-4369-697-A	MAIN BOARD, COMPLETE (D615:G)	
* 66	A-4369-701-A	MAIN BOARD, COMPLETE (E)	
67	4-812-134-00	RIVET NYLON, 3.5	
* 68	4-965-327-01	PANEL, BACK (D515:US)	
* 68	4-965-327-11	PANEL, BACK (D515:CND)	
* 68	4-965-327-21	PANEL, BACK (D515:AUS)	
* 68	4-965-327-31	PANEL, BACK (D515:AEP1)	
* 68	4-965-327-41	PANEL, BACK (D515:AEP2)	
* 68	4-965-327-51	PANEL, BACK (D515:G)	
* 68	4-965-327-61	PANEL, BACK (D515:UK)	
* 68	4-965-327-71	PANEL, BACK (MX)	
* 68	4-965-346-01	PANEL, BACK (D615:US)	
* 68	4-965-346-11	PANEL, BACK (D615:CND)	
* 68	4-965-346-21	PANEL, BACK (D615:AUS)	
* 68	4-965-346-31	PANEL, BACK (D615:AEP1)	
* 68	4-965-346-41	PANEL, BACK (D615:AEP2)	
* 68	4-965-346-51	PANEL, BACK (D615:G)	
* 68	4-965-346-61	PANEL, BACK (E)	
* 68	4-965-346-71	PANEL, BACK (D615:UK)	

Ref. No.	Part No.	Description	Remark
* 69	1-651-909-11	TRANS TM BOARD	
* 70	1-651-908-11	HP (B) BOARD	
* 71	1-651-901-11	SP CONNECTOR BOARD	
* 72	1-651-900-11	SP SW (B) BOARD	
* 73	3-701-946-26	LABEL, FUSE RATING (D515:US, CND)	
74	3-905-609-01	SCREW (TRANSISTOR)	
* 75	1-651-927-11	VOL SELECT BOARD (E)	
⚠CNJ903	1-251-078-11	OUTLET, AC (AC OUTLET) (AUS)	
⚠CNJ903	1-526-794-11	OUTLET, AC (AC OUTLET) (AEP, G)	
⚠F801	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (UK)	
⚠F801	1-532-350-00	FUSE (T3.15AL) (AEP, G, AUS, E)	
⚠F801	1-576-107-11	FUSE (3.15A/250V) (US, CND, MX)	
⚠F802	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (UK)	
⚠F802	1-532-350-00	FUSE (T3.15AL) (AEP, G, AUS, E)	
⚠F802	1-576-107-11	FUSE (3.15A/250V) (US, CND, MX)	
⚠F902	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (MX)	
⚠F902	1-532-259-00	FUSE (T1.6AL/250V) (AEP, G, AUS, E, UK)	
⚠F902	1-576-109-11	FUSE (5A/125V) (US, CND)	
⚠F903	1-532-259-00	FUSE (T1.6AL/250V) (AEP, G, AUS)	
⚠F904	1-532-286-00	FUSE (3.15A/250V) (E)	
IC651	8-759-502-33	IC SI18752	
IC671	8-759-502-33	IC SI18752 (D515)	
Q607	8-729-209-15	TRANSISTOR 2SD2012 (D615)	
Q608	8-749-010-25	TRANSISTOR MN2488-OPY-M (D615)	
Q609	8-749-010-26	TRANSISTOR MP1620-OPY-M (D615)	
Q707	8-729-209-15	TRANSISTOR 2SD2012	
Q708	8-729-020-52	TRANSISTOR 2SD2439-OPY (D515)	
Q708	8-749-010-25	TRANSISTOR MN2488-OPY-M (D615)	
Q709	8-729-020-48	TRANSISTOR 2SB1588-OPY (D515)	
Q709	8-749-101-26	TRANSISTOR MP1620-OPY-M (D615)	
Q757	8-729-209-15	TRANSISTOR 2SD2012	
Q758	8-729-020-52	TRANSISTOR 2SD2439-OPY (D515)	
Q758	8-749-010-25	TRANSISTOR MN2488-OPY-M (D615)	
Q759	8-729-020-48	TRANSISTOR 2SB1588-OPY (D515)	
Q759	8-749-010-26	TRANSISTOR MP1620-OPY-M (D615)	
⚠T901	1-426-708-11	TRANSFORMER, POWER (D615:US, CND)	
⚠T901	1-426-709-11	TRANSFORMER, POWER (D615:AEP, G, AUS)	
⚠T901	1-426-710-11	TRANSFORMER, POWER (E)	
⚠T901	1-426-711-11	TRANSFORMER, POWER (D515:US, CND)	
⚠T901	1-426-712-11	TRANSFORMER, POWER (D515:AEP, G, AUS, UK)	
⚠T901	1-427-630-11	TRANSFORMER, POWER (D615:UK)	
⚠T901	1-427-675-11	TRANSFORMER, POWER (MX)	

SECTION 4
ELECTRICAL PARTS LIST

CONNECTOR 1 (A) **CONNECTOR 2 (A)** **CONNECTOR 2 (B)**

CONNECTOR 3 (A) **CONNECTOR 3 (B)** **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 and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

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

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.

- Abbreviations
  CND : Canadian model
  MX : Mexican model
  G : German model
  AUS : Australian model

Ref. No.	Part No.	Description	Remark
*	1-651-922-11	CONNECTOR 1 (A) BOARD	
		**********	
		< CONNECTOR >	
* CNJ801	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
* CNJ802	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
**********			
*	1-651-924-11	CONNECTOR 2 (A) BOARD	
		**********	
		< CONNECTOR >	
* CNP404	1-750-384-11	CONNECTOR, BOARD TO BOARD 11P	
**********			
*	1-651-925-11	CONNECTOR 2 (B) BOARD	
		**********	
		< CONNECTOR >	
* CNJ402	1-750-383-11	CONNECTOR, BOARD TO BOARD 11P	
**********			
*	1-651-906-11	CONNECTOR 3 (A) BOARD	
		**********	
		< CONNECTOR >	
* CNJ406	1-691-174-11	CONNECTOR (BOARD TO BOARD) 4P	
**********			
*	1-651-910-11	CONNECTOR 3 (B) BOARD	
		**********	
		< CONNECTOR >	
CNP252	1-691-161-11	PIN, CONNECTOR 4P	
**********			

Ref. No.	Part No.	Description	Remark
*	A-6369-680-A	DISPLAY BOARD, COMPLETE (US, CND, MX)	
*	A-4369-698-A	DISPLAY BOARD, COMPLETE (E)	
*	A-4369-702-A	DISPLAY BOARD, COMPLETE (AEP, G, AUS, UK)	
		**********	
*	4-921-941-01	CUSHION (FL)	
*	4-943-107-11	HOLDER (FL TUBE)	
		< CAPACITOR >	
C210	1-126-096-11	ELECT 10uF 20%	35V
C211	1-124-465-00	ELECT 0.47uF 20%	50V
C212	1-164-159-11	CERAMIC 0.1uF	50V
C213	1-164-159-11	CERAMIC 0.1uF	50V
C214	1-104-905-11	DOUBLE LAYERS 0.22F	5.5V
C215	1-164-159-11	CERAMIC 0.1uF	50V
C216	1-162-294-31	CERAMIC 0.001uF 10%	50V
		< CONNECTOR >	
CNJ201	1-766-038-11	CONNECTOR, FFC (LIF (NON-ZIF)) 25P	
* CNJ202	1-565-483-11	CONNECTOR, BOARD TO BOARD 7P	
* CNJ203	1-566-969-11	HOUSING, CONNECTOR (PC BOARD) 7P	
* CNJ204	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P	
		< DIODE >	
D205	8-719-987-63	DIODE 1N4148M	
D206	8-719-987-63	DIODE 1N4148M	
D207	8-719-313-72	LED SEL3810A-CD	(VIDEO)
D208	8-719-313-72	LED SEL3810A-CD	(TV/LD)
D209	8-719-313-72	LED SEL3810A-CD	(HALL)
D210	8-719-313-72	LED SEL3810A-CD	(SIMULATED)
D211	8-719-313-72	LED SEL3810A-CD	(DOLBY SUR)
D214	8-719-313-69	LED SEL3210S-CD	(STANDBY) (EXCEPT US, CND, MX)
D215	8-719-987-63	DIODE 1N4148M	
D216	8-719-987-63	DIODE 1N4148M	

Ref. No.	Part No.	Description	Remark
D217	8-719-987-63	DIODE 1N4148M	
D218	8-719-987-63	DIODE 1N4148M	
D219	8-719-987-63	DIODE 1N4148M	
D220	8-719-987-63	DIODE 1N4148M	
D221	8-719-987-63	DIODE 1N4148M	
D222	8-719-987-63	DIODE 1N4148M	
D223	8-719-987-63	DIODE 1N4148M	
D224	8-719-987-63	DIODE 1N4148M	
D225	8-719-987-63	DIODE 1N4148M	
D283	8-719-987-63	DIODE 1N4148M	(EXCEPT US, CND, MX)
D284	8-719-987-63	DIODE 1N4148M	(EXCEPT US, CND, MX)
		< FLUORESCENT INDICATOR TUBE >	
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC202	8-759-261-70	IC HD6433723B87H	(EXCEPT UK, MX)
IC202	8-759-289-31	IC HD6433723C12H	(UK, MX)
IC203	8-759-962-08	IC BA6208	
IC204	8-749-923-11	IC GP1U58XB	
		< TRANSISTOR >	
Q205	8-729-900-63	TRANSISTOR DTA124ES	
Q206	8-729-900-36	TRANSISTOR DTC124ES	
Q207	8-729-900-36	TRANSISTOR DTC124ES	
Q208	8-729-900-36	TRANSISTOR DTC124ES	
Q209	8-729-900-36	TRANSISTOR DTC124ES	
Q210	8-729-900-36	TRANSISTOR DTC124ES	
Q211	8-729-900-36	TRANSISTOR DTC124ES	
Q212	8-729-900-36	TRANSISTOR DTC124ES	
Q213	8-729-900-36	TRANSISTOR DTC124ES	
Q214	8-729-900-36	TRANSISTOR DTC124ES	
Q216	8-729-900-36	TRANSISTOR DTC124ES	(EXCEPT US, CND, MX)
Q217	8-729-900-63	TRANSISTOR DTA124ES	
Q218	8-729-900-63	TRANSISTOR DTA124ES	
		< RESISTOR >	
R211-214	1-249-441-11	CARBON 100K 5% 1/4W	
R216	1-249-429-11	CARBON 10K 5% 1/4W	
R217	1-249-433-11	CARBON 22K 5% 1/4W	
R219	1-249-441-11	CARBON 100K 5% 1/4W	
R220	1-249-410-11	CARBON 270 5% 1/4W	
R221	1-249-429-11	CARBON 10K 5% 1/4W	
R222	1-247-903-00	CARBON 1M 5% 1/4W	
R223-225	1-249-433-11	CARBON 22K 5% 1/4W	
R227	1-249-433-11	CARBON 22K 5% 1/4W	
R229	1-249-433-11	CARBON 22K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R231	1-249-433-11	CARBON	22K	5%	1/4W
R233	1-249-433-11	CARBON	22K	5%	1/4W
R235	1-249-433-11	CARBON	22K	5%	1/4W
R237	1-249-412-11	CARBON	390	5%	1/4W
R238	1-249-413-11	CARBON	470	5%	1/4W
R239	1-249-412-11	CARBON	390	5%	1/4W
R240	1-249-412-11	CARBON	390	5%	1/4W
R243	1-249-433-11	CARBON	22K	5%	1/4W
R244	1-249-425-11	CARBON	4.7K	5%	1/4W
R245	1-249-433-11	CARBON	22K	5%	1/4W
R246	1-249-433-11	CARBON	22K	5%	1/4W
R247	1-249-429-11	CARBON	10K	5%	1/4W
R248	1-249-429-11	CARBON	10K	5%	1/4W
R280-284	1-249-441-11	CARBON	100K	5%	1/4W
		< SWITCH >			
S223	1-554-303-21	SWITCH, TACTILE			(SUR ON/OFF)
S224	1-554-303-21	SWITCH, TACTILE			(DELAY TIME)
S225	1-554-303-21	SWITCH, TACTILE			(CENTER MODE)
S226	1-554-303-21	SWITCH, TACTILE			(SUR MODE)
S231	1-554-303-21	SWITCH, TACTILE			(PHONO)
S232	1-554-303-21	SWITCH, TACTILE			(TUNER)
S233	1-554-303-21	SWITCH, TACTILE			(CD)
S234	1-554-303-21	SWITCH, TACTILE			(TAPE/MD)
S235	1-554-303-21	SWITCH, TACTILE			(TV/LD)
S236	1-554-303-21	SWITCH, TACTILE			(VIDEO)
S241	1-554-303-21	SWITCH, TACTILE			(DIRECT)
S242	1-554-303-21	SWITCH, TACTILE			(FM MODE)
S245	1-554-303-21	SWITCH, TACTILE			(SHIFT)
S246	1-554-303-21	SWITCH, TACTILE			(MEMORY)
S251	1-554-303-21	SWITCH, TACTILE			(0)
S254	1-554-303-21	SWITCH, TACTILE			(1)
S255	1-554-303-21	SWITCH, TACTILE			(2)
S256	1-554-303-21	SWITCH, TACTILE			(3)
S261	1-554-303-21	SWITCH, TACTILE			(9)
S262	1-554-303-21	SWITCH, TACTILE			(8)
S263	1-554-303-21	SWITCH, TACTILE			(7)
S264	1-554-303-21	SWITCH, TACTILE			(6)
S265	1-554-303-21	SWITCH, TACTILE			(5)
S266	1-554-303-21	SWITCH, TACTILE			(4)
S271	1-554-303-21	SWITCH, TACTILE			(AM)
S272	1-554-303-21	SWITCH, TACTILE			(FM)
S273	1-554-303-21	SWITCH, TACTILE			(PRESET TUNING +)
S274	1-554-303-21	SWITCH, TACTILE			(PRESET TUNING -)
S275	1-554-303-21	SWITCH, TACTILE			(TUNING +)
S276	1-554-303-21	SWITCH, TACTILE			(TUNING -)

DISPLAY **HP (A)** **HP (B)** **MAIN**

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X201	1-579-952-21	VIBRATOR, CERAMIC (8MHz)			
**********					
*	1-651-907-11	HP (A) BOARD			
		**********			
		< JACK >			
J741	1-568-519-41	JACK, LARGE TYPE (HEADPHONES)			
		< RESISTOR >			
R741	1-247-753-11	CARBON	1.2K	5% 1/2W	
R742	1-247-753-11	CARBON	1.2K	5% 1/2W	
R791	1-247-753-11	CARBON	1.2K	5% 1/2W	
R792	1-247-753-11	CARBON	1.2K	5% 1/2W	
**********					
*	1-651-908-11	HP (B) BOARD			
		**********			
		< CONNECTOR >			
CNP704	1-691-160-11	PIN, CONNECTOR 3P			
**********					
*	A-4369-677-A	MAIN BOARD, COMPLETE (D515:US, CND, MX)			
*	A-4369-678-A	MAIN BOARD, COMPLETE (D515:AEP, AUS, UK)			
*	A-4369-679-A	MAIN BOARD, COMPLETE (D515:G)			
*	A-4369-691-A	MAIN BOARD, COMPLETE (D615:US)			
*	A-4369-692-A	MAIN BOARD, COMPLETE (D615:CND)			
*	A-4369-694-A	MAIN BOARD, COMPLETE (D615:AEP, AUS, UK)			
*	A-4369-697-A	MAIN BOARD, COMPLETE (D615:G)			
*	A-4369-701-A	MAIN BOARD, COMPLETE (E)			
		**********			
	3-905-609-01	SCREW (TRANSISTOR)			
	4-812-134-00	RIVET NYLON, 3.5			
*	4-942-204-01	PLATE, GROUND			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C302	1-124-120-11	ELECT	220uF	20% 25V	
C303	1-130-489-00	MYLAR	0.033uF	5% 50V	
C304	1-137-365-11	FILM	0.0015uF	5% 50V	
C305	1-130-489-00	MYLAR	0.033uF	5% 50V	
C306	1-124-903-11	ELECT	1uF	20% 50V	
C307	1-124-907-11	ELECT	10uF	20% 50V	
C308	1-124-907-11	ELECT	10uF	20% 50V	
C310	1-126-962-11	ELECT	3.3uF	20% 50V	
C311	1-124-925-11	ELECT	2.2uF	20% 100V	
C316	1-124-907-11	ELECT	10uF	20% 50V	
C317	1-126-101-11	ELECT	100uF	20% 16V	
C318	1-137-363-00	FILM	680PF	5% 50V	
C322	1-126-962-11	ELECT	3.3uF	20% 50V	
C323	1-136-173-00	FILM	0.47uF	5% 50V	
C324	1-124-477-11	ELECT	47uF	20% 25V	
C325	1-137-399-11	FILM	0.1uF	5% 50V	
C326	1-137-399-11	FILM	0.1uF	5% 50V	
C327	1-124-902-00	ELECT	0.47uF	20% 50V	
C328	1-124-927-11	ELECT	4.7uF	20% 100V	
C329	1-124-902-00	ELECT	0.47uF	20% 50V	
C330	1-124-927-11	ELECT	4.7uF	20% 100V	
C331	1-124-250-00	ELECT	0.15uF	20% 50V	
C332	1-126-962-11	ELECT	3.3uF	20% 50V	
C333	1-124-250-00	ELECT	0.15uF	20% 50V	
C334	1-137-372-11	FILM	0.022uF	5% 50V	
C335	1-136-161-00	FILM	0.047uF	5% 50V	
C336	1-124-120-11	ELECT	220uF	20% 25V	
C337-340					
	1-124-907-11	ELECT	10uF	20% 50V	
C341	1-124-120-11	ELECT	220uF	20% 25V	
C342	1-126-962-11	ELECT	3.3uF	20% 50V	
C343	1-126-962-11	ELECT	3.3uF	20% 50V	
C344	1-137-399-11	FILM	0.1uF	5% 50V	
C345	1-137-399-11	FILM	0.1uF	5% 50V	
C346	1-124-902-00	ELECT	0.47uF	20% 50V	
C347	1-124-927-11	ELECT	4.7uF	20% 100V	
C348	1-124-902-00	ELECT	0.47uF	20% 50V	
C349	1-124-927-11	ELECT	4.7uF	20% 100V	
C350	1-124-250-00	ELECT	0.15uF	20% 50V	
C351	1-126-962-11	ELECT	3.3uF	20% 50V	
C352	1-124-250-00	ELECT	0.15uF	20% 50V	
C353-357					
	1-164-159-11	CERAMIC	0.1uF	50V	
C358	1-162-291-31	CERAMIC	560PF	10% 50V	
C359	1-124-927-11	ELECT	4.7uF	20% 100V	
C360	1-124-927-11	ELECT	4.7uF	20% 100V	
C362	1-124-120-11	ELECT	220uF	20% 25V	
C363	1-164-159-11	CERAMIC	0.1uF	50V	
C401	1-162-282-31	CERAMIC (EXCEPT G)	100PF	10% 50V	
C401	1-162-286-31	CERAMIC (G)	220PF	10% 50V	
C402	1-126-962-11	ELECT	3.3uF	20% 50V	
C403	1-104-792-51	ELECT	33uF	20% 16V	
C404	1-162-282-31	CERAMIC	100PF	10% 50V	
C405	1-137-459-11	FILM	0.0056uF	5% 100V	
C406	1-164-159-11	CERAMIC	0.1uF	50V	
C407	1-137-365-11	FILM	0.0015uF	5% 50V	
C408	1-162-294-31	CERAMIC	0.001uF	10% 50V	

Ref.No.	Part No.	Description			Remark
C409	1-126-962-11	ELECT	3.3uF	20%	50V
C410	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-162-291-31	CERAMIC	560PF	10%	50V
C413	1-164-159-11	CERAMIC	0.1uF		50V
C414	1-161-494-00	CERAMIC	0.022uF		25V
C415	1-164-159-11	CERAMIC	0.1uF		50V
C416	1-164-159-11	CERAMIC	0.1uF		50V
C434	1-162-286-31	CERAMIC	220PF	10%	50V
C435	1-162-286-31	CERAMIC	220PF	10%	50V
C451	1-162-282-31	CERAMIC (EXCEPT G)	100PF	10%	50V
C451	1-162-286-31	CERAMIC (G)	220PF	10%	50V
C452	1-126-962-11	ELECT	3.3uF	20%	50V
C453	1-104-792-51	ELECT	33uF	20%	16V
C454	1-162-282-31	CERAMIC	100PF	10%	50V
C455	1-137-459-11	FILM	0.0056uF	5%	100V
C457	1-137-365-11	FILM	0.0015uF	5%	50V
C459	1-126-962-11	ELECT	3.3uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C601	1-124-927-11	ELECT (D615)	4.7uF	20%	100V
C602	1-164-077-11	CERAMIC (D615)	220PF	10%	50V
C603	1-162-215-31	CERAMIC (D615)	47PF	5%	50V
C604	1-126-176-11	ELECT (D615)	220uF	20%	10V
C605	1-164-084-11	CERAMIC (D615)	820PF	10%	50V
C606	1-124-477-11	ELECT (D615)	47uF	20%	25V
C607	1-164-039-11	CERAMIC (D615)	3PF	0.25PF	50V
C608	1-124-477-11	ELECT (D615)	47uF	20%	25V
C610	1-164-159-11	CERAMIC	0.1uF		50V
C611	1-164-159-11	CERAMIC (D615)	0.1uF		50V
C612	1-137-372-11	FILM	0.022uF	5%	50V
C613	1-161-959-00	CERAMIC (D615)	22PF	10%	500V
C614	1-164-159-11	CERAMIC (D515)	0.1uF		50V
C651	1-164-077-11	CERAMIC	220PF	10%	50V
C652	1-124-927-11	ELECT	4.7uF	20%	100V
C653	1-164-070-11	CERAMIC	100PF	5%	50V
C654	1-124-443-00	ELECT	100uF	20%	10V
C655	1-164-039-11	CERAMIC	3PF	0.25PF	50V
C656	1-124-927-11	ELECT	4.7uF	20%	100V
C658	1-137-372-11	FILM	0.022uF	5%	50V

Ref.No.	Part No.	Description			Remark
C671	1-164-077-11	CERAMIC (D515)	220PF	10%	50V
C672	1-124-927-11	ELECT (D515)	4.7uF	20%	100V
C673	1-164-070-11	CERAMIC (D515)	100PF	5%	50V
C674	1-124-443-00	ELECT (D515)	100uF	20%	10V
C675	1-164-039-11	CERAMIC (D515)	3PF	0.25PF	50V
C701	1-124-927-11	ELECT	4.7uF	20%	100V
C702	1-164-077-11	CERAMIC	220PF	10%	50V
C703	1-162-215-31	CERAMIC	47PF	5%	50V
C704	1-126-176-11	ELECT	220uF	20%	10V
C705	1-164-084-11	CERAMIC	820PF	10%	50V
C706	1-124-477-11	ELECT	47uF	20%	25V
C707	1-164-039-11	CERAMIC	3PF	0.25PF	50V
C708	1-124-477-11	ELECT	47uF	20%	25V
C710	1-161-959-00	CERAMIC	22PF	10%	500V
C711	1-164-159-11	CERAMIC	0.1uF		50V
C712	1-137-372-11	FILM	0.022uF	5%	50V
C720	1-124-472-11	ELECT	470uF	20%	10V
C721	1-124-927-11	ELECT	4.7uF	20%	100V
C722	1-124-927-11	ELECT	4.7uF	20%	100V
C723	1-124-463-00	ELECT	0.1uF	20%	50V
C751	1-124-927-11	ELECT	4.7uF	20%	100V
C752	1-164-077-11	CERAMIC	220PF	10%	50V
C753	1-162-215-31	CERAMIC	47PF	5%	50V
C754	1-126-176-11	ELECT	220uF	20%	10V
C755	1-164-084-11	CERAMIC	820PF	10%	50V
C756	1-124-477-11	ELECT	47uF	20%	25V
C757	1-164-039-11	CERAMIC	3PF	0.25PF	50V
C758	1-124-477-11	ELECT	47uF	20%	25V
C760	1-161-959-00	CERAMIC	22PF	10%	500V
C761	1-164-159-11	CERAMIC	0.1uF		50V
C762	1-137-372-11	FILM	0.022uF	5%	50V
C801	1-124-477-11	ELECT	47uF	20%	25V
C802	1-124-477-11	ELECT	47uF	20%	25V
C803	1-107-766-11	ELECT (D615)	8200uF	20%	71V
C803	1-128-591-11	ELECT (D515)	6800uF	20%	56V
C804	1-107-766-11	ELECT (D615)	8200uF	20%	71V
C804	1-128-591-11	ELECT (D515)	6800uF	20%	56V
C805	1-137-420-11	FILM	0.047uF	10%	100V
C806	1-137-420-11	FILM	0.047uF	10%	100V
C807	1-124-477-11	ELECT	47uF	20%	25V
C808	1-124-477-11	ELECT	47uF	20%	25V

MAIN

Ref. No.	Part No.	Description			
C811	1-124-618-11	ELECT	2200uF	20%	35V
C812	1-124-618-11	ELECT	2200uF	20%	35V
C813	1-137-375-11	FILM	0.068uF	5%	50V
C814	1-137-375-11	FILM	0.068uF	5%	50V
C815	1-124-464-11	ELECT	0.22uF	20%	50V
C816	1-124-477-11	ELECT	47uF	20%	25V
C817	1-124-477-11	ELECT	47uF	20%	25V
C818	1-124-903-11	ELECT	1uF	20%	50V
C819	1-124-360-00	ELECT	1000uF	20%	16V
C820	1-161-494-00	CERAMIC	0.022uF		25V
C821	1-161-494-00	CERAMIC	0.022uF		25V
C822	1-124-477-11	ELECT	47uF	20%	25V
C823	1-124-477-11	ELECT	47uF	20%	25V
CC01-7	1-162-282-31	CERAMIC (G)	100PF	10%	50V
CC51-55	1-162-282-31	CERAMIC (G)	100PF	10%	50V
CC56	1-162-282-31	CERAMIC (G)	100PF	10%	50V
CC57	1-162-282-31	CERAMIC (G)	100PF	10%	50V

< CONNECTOR >

* CNJ406	1-764-930-11	CONNECTOR, FFC (LIF (NON-ZIF)) 25P	
* CNJ701	1-764-914-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P	
* CNP403	1-750-384-11	CONNECTOR, BOARD TO BOARD 11P	
CNP405	1-691-161-11	PIN, CONNECTOR 4P	
CNP701	1-750-388-11	PIN, CONNECTOR 5P	
* CNP706	1-564-674-11	PIN, CONNECTOR 8P	
CNP801	1-764-906-11	PIN, CONNECTOR (D615:G)	
* CNP804	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P	

< DIODE >

D600	8-719-987-63	DIODE	1N4148M (D615)
D601	8-719-933-41	DIODE	HZS6C3L (D615)
D602	8-719-987-63	DIODE	1N4148M
D603	8-719-815-85	DIODE	1S1585 (D615)
D701	8-719-933-41	DIODE	HZS6C3L
D702	8-719-987-63	DIODE	1N4148M
D703	8-719-815-85	DIODE	1S1585
D704	8-719-815-85	DIODE	1S1585
D706	8-719-987-63	DIODE	1N4148M
D707	8-719-987-63	DIODE	1N4148M
D708	8-719-987-63	DIODE	1N4148M
D709	8-719-987-63	DIODE	1N4148M
D710	8-719-815-85	DIODE	1S1585
D751	8-719-933-41	DIODE	HZS6C3L
D752	8-719-987-63	DIODE	1N4148M
D753	8-719-815-85	DIODE	1S1585
D801	8-719-002-33	DIODE	UZL-24L
D802	8-719-302-38	DIODE	RBV-602-01
D803	8-719-312-09	DIODE	RBA-402
D804	8-719-010-38	DIODE	UZ-5.1BSB
D807	8-719-985-53	DIODE	HZS4ALL
D808	8-719-933-41	DIODE	HZS6C3L
D809	8-719-933-41	DIODE	HZS6C3L
D810	8-719-024-99	DIODE	11ES2
D811	8-719-024-99	DIODE	11ES2
D812	8-719-024-99	DIODE	11ES2
D813	8-719-024-99	DIODE	11ES2
D814	8-719-987-63	DIODE	1N4148M
D815	8-719-987-63	DIODE	1N4148M
D817	8-719-001-30	DIODE	UZL-9H3
D818	8-719-987-63	DIODE	1N4148M (D615)

< IC >

IC300	8-759-248-75	IC	LV1010
IC301	8-759-248-74	IC	LA2785
IC302	8-759-636-74	IC	M5218AP-22
IC401	8-759-805-14	IC	LC7822
IC402	8-759-636-74	IC	M5218AP-22
IC651	8-759-502-33	IC	SI18752
IC671	8-759-502-33	IC	SI18752 (D515)
IC801	8-759-263-43	IC	TA78M12S
IC802	8-759-700-69	IC	NJM79L12A

< JACK >

J401	1-695-188-21	JACK, PIN 4P (PHOTO IN, CD IN)	
J402	1-580-825-11	JACK, PIN 6P (TAPE/MD-REC OUT, TAPE/MD-IN)	
J403	1-573-028-21	JACK, PIN 4P (VIDEO-AUDIO OUT, VIDEO-AUDIO IN)	

< COIL >

L301	1-410-509-11	INDUCTOR	10uH
L302	1-410-509-11	INDUCTOR	10uH
L601	1-420-872-00	COIL, AIR CORE	
L651	1-420-872-00	COIL, AIR CORE	
L671	1-420-872-00	COIL, AIR-CORE (D515)	
L701	1-420-872-00	COIL, AIR CORE	
L751	1-420-872-00	COIL, AIR CORE	

< TRANSISTOR >

Q261	8-729-119-78	TRANSISTOR	2SC403SP-51
Q262	8-729-119-78	TRANSISTOR	2SC403SP-51
Q305	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q306	8-729-141-30	TRANSISTOR	2SC3623A-LK

Ref. No.	Part No.	Description	Remark
Q307	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q308	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q600	8-729-140-82	TRANSISTOR 2SA988-PAFAEA (D615)	
Q601	8-729-620-18	TRANSISTOR 2SA979-FG (D615)	
Q602	8-729-119-78	TRANSISTOR 2SC403SP-51 (D615)	
Q603	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q604	8-729-119-78	TRANSISTOR 2SC403SP-51 (D615)	
Q605	8-729-122-13	TRANSISTOR 2SA1221-K (D615)	
Q606	8-729-195-82	TRANSISTOR 2SC2958 (D615)	
Q607	8-729-209-15	TRANSISTOR 2SD2012 (D615)	
Q608	8-749-010-25	TRANSISTOR MN2488-OPY-M (D615)	
Q609	8-749-010-26	TRANSISTOR MP1620-OPY-M (D615)	
Q610	8-729-140-82	TRANSISTOR 2SA988-PAFAEA (D615)	
Q701	8-729-620-18	TRANSISTOR 2SA979-FG	
Q702	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q703	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q704	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q705	8-729-122-13	TRANSISTOR 2SA1221-K	
Q706	8-729-195-82	TRANSISTOR 2SC2958	
Q707	8-729-209-15	TRANSISTOR 2SD2012	
Q708	8-729-020-52	TRANSISTOR 2SD2439-OPY (D515)	
Q708	8-749-010-25	TRANSISTOR MN2488-OPY-M (D615)	
Q709	8-729-020-48	TRANSISTOR 2SB1588-OPY (D515)	
Q709	8-749-010-26	TRANSISTOR MP1620-OPY-M (D615)	
Q710	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q711	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q712	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q714	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q751	8-729-620-18	TRANSISTOR 2SA979-FG	
Q752	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q753	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q754	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q755	8-729-122-13	TRANSISTOR 2SA1221-K	
Q756	8-729-195-82	TRANSISTOR 2SC2958	
Q757	8-729-209-15	TRANSISTOR 2SD2012	
Q758	8-729-020-52	TRANSISTOR 2SD2439-OPY (D515)	
Q758	8-749-010-25	TRANSISTOR MN2488-OPY-M (D615)	
Q759	8-729-020-48	TRANSISTOR 2SB1588-OPY (D515)	
Q759	8-749-010-26	TRANSISTOR MP1620-OPY-M (D615)	
Q760	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q801	8-729-140-97	TRANSISTOR 2SB734-34	
Q802	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q803	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q804	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q806	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q807	8-729-180-92	TRANSISTOR 2SD809-K	
Q808	8-729-180-92	TRANSISTOR 2SD809-K	
Q809	8-729-119-78	TRANSISTOR 2SC403SP-51 (D615)	

< RESISTOR >

R269	1-249-433-11	CARBON	22K	5%	1/4W
R270	1-249-433-11	CARBON	22K	5%	1/4W
R300	1-247-903-00	CARBON	1M	5%	1/4W
R301	1-249-421-11	CARBON	2.2K	5%	1/4W
R302	1-249-421-11	CARBON	2.2K	5%	1/4W
R304	1-249-441-11	CARBON	100K	5%	1/4W
R306	1-249-436-11	CARBON	39K	5%	1/4W
R307	1-249-432-11	CARBON	18K	5%	1/4W
R308	1-249-421-11	CARBON	2.2K	5%	1/4W
R309	1-249-421-11	CARBON	2.2K	5%	1/4W
R353-356					
	1-249-425-11	CARBON	4.7K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-249-441-11	CARBON	100K	5%	1/4W
R359-362					
	1-249-429-11	CARBON	10K	5%	1/4W
R363	1-249-411-11	CARBON	330	5%	1/4W
R365	1-249-417-11	CARBON	1K	5%	1/4W
R366	1-249-417-11	CARBON	1K	5%	1/4W
R401	1-249-411-11	CARBON	330	5%	1/4W
R402	1-249-425-11	CARBON	4.7K	5%	1/4W
R403-407					
	1-249-417-11	CARBON	1K	5%	1/4W
R408	1-249-429-11	CARBON	10K	5%	1/4W
R409	1-249-437-11	CARBON	47K	5%	1/4W
R410	1-247-897-11	CARBON	560K	5%	1/4W
R411	1-249-416-11	CARBON	820	5%	1/4W
R412	1-247-897-11	CARBON	560K	5%	1/4W
R413	1-249-437-11	CARBON	47K	5%	1/4W
R414	1-249-425-11	CARBON	4.7K	5%	1/4W
R416	1-249-417-11	CARBON	1K	5%	1/4W
R417	1-247-897-11	CARBON	560K	5%	1/4W
R435	1-249-418-11	CARBON	1.2K	5%	1/4W
R442	1-249-418-11	CARBON	1.2K	5%	1/4W
R443	1-249-418-11	CARBON	1.2K	5%	1/4W
R447	1-249-416-11	CARBON	820	5%	1/4W
R448	1-249-429-11	CARBON	10K	5%	1/4W
R449	1-249-433-11	CARBON	22K	5%	1/4W
R451	1-249-411-11	CARBON	330	5%	1/4W
R452	1-249-425-11	CARBON	4.7K	5%	1/4W
R453-457					
	1-249-417-11	CARBON	1K	5%	1/4W
R458	1-249-429-11	CARBON	10K	5%	1/4W
R459	1-249-437-11	CARBON	47K	5%	1/4W
R460	1-247-897-11	CARBON	560K	5%	1/4W
R461	1-249-416-11	CARBON	820	5%	1/4W

MAIN

Ref. No.	Part No.	Description			Remark
R462	1-247-897-11	CARBON	560K	5%	1/4W
R463	1-249-437-11	CARBON	47K	5%	1/4W
R466	1-249-417-11	CARBON	1K	5%	1/4W
R467	1-247-897-11	CARBON	560K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W (D615)
R602	1-249-435-11	CARBON	33K	5%	1/4W (D615)
R603	1-249-409-11	CARBON	220	5%	1/4W (D615)
R604	1-249-434-11	CARBON	27K	5%	1/4W (D615)
R605	1-249-415-11	CARBON	680	5%	1/4W (D615)
⚠R606	1-249-409-11	CARBON (D615)	220	5%	1/4W F
R607	1-249-421-11	CARBON	2.2K	5%	1/4W (D615)
R608	1-249-433-11	CARBON	22K	5%	1/4W (D615)
⚠R609	1-249-409-11	CARBON (D615)	220	5%	1/4W F
R610	1-249-414-11	CARBON	560	5%	1/4W (D615)
R611	1-249-426-11	CARBON	5.6K	5%	1/4W
R612	1-249-422-11	CARBON	2.7K	5%	1/4W (D615)
⚠R613	1-249-397-11	CARBON (D615)	22	5%	1/4W F
R614	1-249-415-11	CARBON	680	5%	1/4W (D615)
R615	1-249-409-11	CARBON	220	5%	1/4W (D615)
⚠R616	1-249-397-11	CARBON (D615)	22	5%	1/4W F
R617	1-249-428-11	CARBON	8.2K	5%	1/4W (D615)
R618	1-249-393-11	CARBON	10	5%	1/4W (D615)
R619	1-249-393-11	CARBON	10	5%	1/4W (D615)
⚠R620	1-208-602-11	WIREWOUND (D615)	0.22	10%	2W F
⚠R621	1-208-602-11	WIREWOUND (D615)	0.22	10%	2W F
R622	1-249-425-11	CARBON	4.7K	5%	1/4W (D615)
R623	1-249-431-11	CARBON	15K	5%	1/4W (D615)
⚠R624	1-249-393-11	CARBON	10	5%	1/4W F
R625	1-249-389-11	CARBON	4.7	5%	1/4W
R626	1-247-866-11	CARBON	30K	5%	1/4W (D615)
R627	1-249-435-11	CARBON	33K	5%	1/4W (D615)
R651	1-249-438-11	CARBON	56K	5%	1/4W
R652	1-249-417-11	CARBON	1K	5%	1/4W
R653	1-249-409-11	CARBON	220	5%	1/4W (D515)
R653	1-249-411-11	CARBON	330	5%	1/4W (D615)
R654	1-247-866-11	CARBON	30K	5%	1/4W (D615)
R654	1-249-431-11	CARBON	15K	5%	1/4W (D515)
R655	1-249-426-11	CARBON	5.6K	5%	1/4W
⚠R658	1-249-393-11	CARBON	10	5%	1/4W F
⚠R659	1-249-389-11	CARBON	4.7	5%	1/4W F
R660	1-249-437-11	CARBON	47K	5%	1/4W
R671	1-249-438-11	CARBON	56K	5%	1/4W (D515)
R672	1-249-417-11	CARBON	1K	5%	1/4W (D515)
R673	1-249-410-11	CARBON	270	5%	1/4W (D515)

Ref. No.	Part No.	Description			Remark
R674	1-247-866-11	CARBON	30K	5%	1/4W (D515)
R680	1-249-435-11	CARBON	33K	5%	1/4W (D515)
R701	1-249-421-11	CARBON	2.2K	5%	1/4W
R702	1-249-435-11	CARBON	33K	5%	1/4W
R703	1-249-409-11	CARBON	220	5%	1/4W (D615)
R703	1-249-410-11	CARBON	270	5%	1/4W (D515)
R704	1-249-434-11	CARBON	27K	5%	1/4W
R705	1-249-415-11	CARBON	680	5%	1/4W
⚠R706	1-249-409-11	CARBON	220	5%	1/4W F
R707	1-249-421-11	CARBON	2.2K	5%	1/4W
R708	1-249-433-11	CARBON	22K	5%	1/4W
⚠R709	1-249-409-11	CARBON	220	5%	1/4W F
R710	1-247-866-11	CARBON	30K	5%	1/4W
R711	1-249-414-11	CARBON	560	5%	1/4W
R712	1-249-422-11	CARBON	2.7K	5%	1/4W
⚠R713	1-249-397-11	CARBON	22	5%	1/4W F
R714	1-249-415-11	CARBON	680	5%	1/4W
R715	1-249-409-11	CARBON	220	5%	1/4W
⚠R716	1-249-397-11	CARBON	22	5%	1/4W F
R717	1-249-428-11	CARBON	8.2K	5%	1/4W
⚠R718	1-249-393-11	CARBON	10	5%	1/4W F
⚠R719	1-249-393-11	CARBON	10	5%	1/4W F
⚠R720	1-208-601-11	WIREWOUND (D515)	0.1	10%	2W F
⚠R720	1-208-602-11	WIREWOUND (D615)	0.22	10%	2W F
⚠R721	1-208-601-11	WIREWOUND (D515)	0.1	10%	2W F
⚠R721	1-208-602-11	WIREWOUND (D615)	0.22	10%	2W F
R722	1-249-417-11	CARBON	1K	5%	1/4W (D515)
R722	1-249-425-11	CARBON	4.7K	5%	1/4W (D615)
R723	1-249-431-11	CARBON	15K	5%	1/4W
⚠R724	1-249-393-11	CARBON	10	5%	1/4W F
⚠R725	1-249-389-11	CARBON	4.7	5%	1/4W F
R727	1-249-437-11	CARBON	47K	5%	1/4W
R729	1-249-399-11	CARBON	33	5%	1/4W
⚠R730	1-249-399-11	CARBON	33	5%	1/4W F
R731	1-249-429-11	CARBON	10K	5%	1/4W
R732	1-249-417-11	CARBON	1K	5%	1/4W
R733	1-249-435-11	CARBON	33K	5%	1/4W
R734	1-249-427-11	CARBON	6.8K	5%	1/4W
R737	1-249-429-11	CARBON	10K	5%	1/4W
R751	1-249-421-11	CARBON	2.2K	5%	1/4W
R752	1-249-435-11	CARBON	33K	5%	1/4W
R753	1-249-409-11	CARBON	220	5%	1/4W (D615)
R753	1-249-410-11	CARBON	270	5%	1/4W (D515)
R754	1-249-434-11	CARBON	27K	5%	1/4W
R755	1-249-415-11	CARBON	680	5%	1/4W

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.

Ref.No.	Part No.	Description				Remark
⚠R756	1-249-409-11	CARBON	220	5%	1/4W	F
R757	1-249-421-11	CARBON	2.2K	5%	1/4W	
R758	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R759	1-249-409-11	CARBON	220	5%	1/4W	F
R760	1-247-866-11	CARBON	30K	5%	1/4W	
R761	1-249-414-11	CARBON	560	5%	1/4W	
R762	1-249-422-11	CARBON	2.7K	5%	1/4W	
R763	1-249-397-11	CARBON	22	5%	1/4W	
R764	1-249-415-11	CARBON	680	5%	1/4W	
R765	1-249-409-11	CARBON	220	5%	1/4W	
⚠R766	1-249-397-11	CARBON	22	5%	1/4W	F
R767	1-249-428-11	CARBON	8.2K	5%	1/4W	
⚠R768	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R769	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R770	1-208-601-11	WIREWOUND (D515)	0.1	10%	2W	F
⚠R770	1-208-602-11	WIREWOUND (D615)	0.22	10%	2W	F
⚠R771	1-208-601-11	WIREWOUND (D515)	0.1	10%	2W	F
⚠R771	1-208-602-11	WIREWOUND (D615)	0.22	10%	2W	F
R772	1-249-425-11	CARBON	4.7K	5%	1/4W	(D615)
R772	1-249-417-11	CARBON	1K	5%	1/4W	(D515)
R773	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R774	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R775	1-249-389-11	CARBON	4.7	5%	1/4W	F
R777	1-249-438-11	CARBON	56K	5%	1/4W	
R801	1-249-423-11	CARBON	3.3K	5%	1/4W	
⚠R802	1-249-399-11	CARBON	33	5%	1/4W	F
R805	1-216-446-00	METAL OXIDE	18	5%	2W	
R806	1-249-425-11	CARBON	4.7K	5%	1/4W	
R807	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R808	1-249-405-11	CARBON	100	5%	1/4W	F
R811	1-249-417-11	CARBON	1K	5%	1/4W	
R812	1-249-426-11	CARBON	5.6K	5%	1/4W	
R813	1-249-426-11	CARBON	5.6K	5%	1/4W	
R814	1-249-429-11	CARBON	10K	5%	1/4W	
R815	1-249-429-11	CARBON	10K	5%	1/4W	
R816	1-249-417-11	CARBON	1K	5%	1/4W	F
R817	1-249-429-11	CARBON	10K	5%	1/4W	
R819	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R820	1-249-437-11	CARBON	47K	5%	1/4W	
R822	1-247-811-31	CARBON	150	5%	1/4W	
R824	1-249-425-11	CARBON	4.7K	5%	1/4W	(D615)
RR01	1-249-417-11	CARBON	1K	5%	1/4W	(G)
RR51	1-249-417-11	CARBON	1K	5%	1/4W	(G)

Ref.No.	Part No.	Description				Remark
		< RELAY >				
RY601	1-515-920-11	RELAY (24V)				
RY701	1-515-920-11	RELAY (24V)				
RY801	1-515-894-11	RELAY (EXCEPT CND, MX)				
RY851	1-515-918-11	RELAY (CND, MX)				
RY852	1-515-918-11	RELAY (CND, MX)				
		< TERMINAL >				
TM001	1-537-240-51	TERMINAL BOARD (ANTENNA) (US, CND, E, MX)				
TM001	1-537-714-11	TERMINAL BOARD (ANTENNA) (AEP, G, AUS, UK)				
TM601	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P) (SURROUND SPEAKERS)				
TM701	1-537-376-11	TERMINAL BOARD (SP) (FRONT SPEAKERS)				
		< TUNER >				
TU001	1-239-562-11	TUNER UNIT (G)				
TU001	1-239-611-11	TUNER UNIT (AEP, E, AUS)				
TU001	1-239-850-11	TUNER UNIT (US, CND, MX)				
TU001	1-239-865-11	ENCAPSULATED COMPONENT (UK)				
		< VIBRATOR >				
X301	1-579-952-21	VIBRATOR, CERAMIC (8MHz)				
**********						
*	A-4369-657-A	MOTOR VR BOARD, COMPLETE (D515)				
*	A-4369-681-A	MOTOR VR BOARD, COMPLETE (D615)				
		**********				
		< CAPACITOR >				
C420	1-162-207-31	CERAMIC	22PF	5%	50V	
C425	1-126-096-11	ELECT	10uF	20%	35V	
C426	1-126-096-11	ELECT	10uF	20%	35V	
C427	1-124-252-00	ELECT	0.33uF	20%	50V	
C428	1-130-489-00	MYLAR	0.033uF	5%	50V	
C429	1-164-070-11	CERAMIC	100PF	5%	50V	
C430	1-126-301-11	ELECT	1uF	20%	50V	
C431	1-126-301-11	ELECT	1uF	20%	50V	
C432	1-126-096-11	ELECT	10uF	20%	35V	
C433	1-126-096-11	ELECT	10uF	20%	35V	
C470	1-162-207-31	CERAMIC	22PF	5%	50V	
C475	1-126-096-11	ELECT	10uF	20%	35V	
C476	1-126-096-11	ELECT	10uF	20%	35V	
C477	1-124-252-00	ELECT	0.33uF	20%	50V	
C478	1-130-489-00	MYLAR	0.033uF	5%	50V	
C479	1-164-070-11	CERAMIC	100PF	5%	50V	
C492	1-124-464-11	ELECT	0.22uF	20%	50V	

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.

MOTOR VR PS

Ref.No.	Part No.	Description				Remark
		< CONNECTOR >				
* CNJ403	1-750-383-11	CONNECTOR, BOARD TO BOARD 11P				
* CNJ404	1-764-950-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P				
* CNP401	1-566-971-11	PIN, CONNECTOR (PC BOARD) 6P				
* CNP402	1-566-972-11	PIN, CONNECTOR (PC BOARD) 7P				
		< DIODE >				
D421	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC404	8-759-636-74	IC M5218AP-22				
		< TRANSISTOR >				
Q401	8-729-202-67	TRANSISTOR 2SK246-GR3				
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q403	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q451	8-729-202-67	TRANSISTOR 2SK246-GR3				
Q452	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q453	8-729-141-30	TRANSISTOR 2SC3623A-LK				
		< RESISTOR >				
R425	1-249-428-11	CARBON	8.2K	5%	1/4W	
R426	1-249-438-11	CARBON	56K	5%	1/4W	
R427	1-249-417-11	CARBON	1K	5%	1/4W	
R428	1-249-425-11	CARBON	4.7K	5%	1/4W	
R430	1-249-437-11	CARBON	47K	5%	1/4W	
R431	1-249-423-11	CARBON	3.3K	5%	1/4W	
R432	1-247-883-00	CARBON	150K	5%	1/4W	
R433	1-249-427-11	CARBON	6.8K	5%	1/4W	
R434	1-249-412-11	CARBON	390	5%	1/4W	
R436	1-249-441-11	CARBON	100K	5%	1/4W	
R438	1-249-441-11	CARBON	100K	5%	1/4W	
R441	1-249-441-11	CARBON	100K	5%	1/4W	
R446	1-247-807-31	CARBON	100	5%	1/4W	
R464	1-247-903-00	CARBON	1M	5%	1/4W	
R469	1-247-903-00	CARBON	1M	5%	1/4W	
R475	1-249-428-11	CARBON	8.2K	5%	1/4W	
R476	1-249-438-11	CARBON	56K	5%	1/4W	
R477	1-249-417-11	CARBON	1K	5%	1/4W	
R478	1-249-425-11	CARBON	4.7K	5%	1/4W	
R480	1-249-437-11	CARBON	47K	5%	1/4W	
R481	1-249-423-11	CARBON	3.3K	5%	1/4W	
R482	1-247-883-00	CARBON	150K	5%	1/4W	
R483	1-249-427-11	CARBON	6.8K	5%	1/4W	
R484	1-249-412-11	CARBON	390	5%	1/4W	
R491	1-249-441-11	CARBON	100K	5%	1/4W	
R492	1-247-903-00	CARBON	1M	5%	1/4W	
R496	1-247-807-31	CARBON	100	5%	1/4W	
		< VARIABLE RESISTOR >				
RV404	1-241-816-11	RES, VAR, CARBON 100KX4 (MASTER VOLUME)				
**********						
*	1-651-921-11	PS BOARD				
		********				
	1-533-293-11	FUSE HOLDER				
		< CAPACITOR >				
⚠CC91	1-161-741-00	CERAMIC	0.001uF	10%	400V (G)	
⚠CC92	1-161-741-00	CERAMIC	0.001uF	10%	400V (G)	
		< AC OUTLET >				
⚠CNJ902	1-540-038-11	OUTLET, AC (NON-POLAR) (AC OUTLET) (E)				
⚠CNJ902	1-540-057-11	OUTLET, AC (POLAR) (AC OUTLET) (US, CND, MX)				
		< CONNECTOR >				
* CNP805	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P				
CNP901	1-564-321-00	PIN, CONNECTOR 2P				
CNP902	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P				
CNP903	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P				
CNP905	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P (E)				
* CNP906	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P (E)				
		< DIODE >				
D816	8-719-987-63	DIODE 1N4148M				
		< FUSE >				
⚠F902	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (MX)				
⚠F902	1-532-259-00	FUSE (T1.6AL/250V) (AEP, G, AUS, E, UK)				
⚠F902	1-576-109-11	FUSE (5A/125V) (US, CND)				
⚠F903	1-532-259-00	FUSE (T1.6AL/250V) (AEP, G, AUS)				
		< RESISTOR >				
⚠R901	1-202-725-00	SOLID (US, CND, MX)	3.3M	10%	1/2W F	
		< RELAY >				
⚠RY901	1-515-738-11	RELAY, POWER				
		< TRANSFORMER >				
⚠T902	1-450-358-11	TRANSFORMER, POWER (EXCEPT US, CND, MX)				
⚠T902	1-450-361-11	TRANSFORMER, POWER (US, CND, 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.

SP CONNECTOR | SP SW (A) | SP SW (B) | SYS SW | TONE | TRANS TM

Ref. No.	Part No.	Description	Remark
*	1-651-901-11	SP CONNECTOR BOARD	
		**********	
		< CONNECTOR >	
CNJ703	1-750-390-11	SOCKET 5P	
**********			
*	1-651-899-11	SP SW (A) BOARD	
		**********	
		< CONNECTOR >	
CNJ702	1-691-173-11	CONNECTOR (BOARD TO BOARD) 3P	
		< SWITCH >	
S701	1-571-854-21	SWITCH, PUSH (2 KEY) (SPEAKERS A, B)	
**********			
*	1-651-900-11	SP SW (B) BOARD	
		**********	
**********			
*	1-651-911-11	SYS SW BOARD	
		**********	
		< CONNECTOR >	
CNP201	1-764-905-11	PLUG, CONNECTOR 7P	
		< SWITCH >	
S200	1-554-303-21	SWITCH, TACTILE (POWER)	
S213	1-554-303-21	SWITCH, TACTILE (REAR LEVEL +)	
S214	1-554-303-21	SWITCH, TACTILE (REAR LEVEL -)	
S215	1-554-303-21	SWITCH, TACTILE (CENTER LEVEL +)	
S216	1-554-303-21	SWITCH, TACTILE (CENTER LEVEL -)	
**********			
*	1-651-898-11	TONE BOARD	
		**********	
		< CAPACITOR >	
C421	1-137-440-11	FILM 0.018uF 5% 50V	
C422	1-124-463-00	ELECT 0.1uF 20% 50V	
C423	1-137-368-11	FILM 0.0047uF 5% 50V	
C424	1-137-372-11	FILM 0.022uF 5% 50V	
C471	1-137-440-11	FILM 0.018uF 5% 50V	
C472	1-124-463-00	ELECT 0.1uF 20% 50V	
C473	1-137-368-11	FILM 0.0047uF 5% 50V	
C474	1-137-372-11	FILM 0.022uF 5% 50V	

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNJ405	1-566-968-11	HOUSING, CONNECTOR (PC BOARD) 6P	
* CNP202	1-569-798-11	PLUG, CONNECTOR 6P	
		< DIODE >	
D212	8-719-313-72	LED SEL3810A-CD (MUTING)	
D213	8-719-313-72	LED SEL3810A-CD (LOW BOOST)	
		< RESISTOR >	
R421	1-249-430-11	CARBON 12K 5% 1/4W	
R422	1-249-422-11	CARBON 2.7K 5% 1/4W	
R429	1-249-415-11	CARBON 680 5% 1/4W	
R437	1-247-903-00	CARBON 1M 5% 1/4W	
R440	1-247-903-00	CARBON 1M 5% 1/4W	
R471	1-249-430-11	CARBON 12K 5% 1/4W	
R472	1-249-422-11	CARBON 2.7K 5% 1/4W	
R479	1-249-415-11	CARBON 680 5% 1/4W	
R487	1-247-903-00	CARBON 1M 5% 1/4W	
R490	1-247-903-00	CARBON 1M 5% 1/4W	
		< VARIABLE RESISTOR >	
RV421	1-223-362-11	RES, VAR, CARBON 100K/100K (BASS)	
RV422	1-223-363-11	RES, VAR, CARBON 125K/125K (TREBLE)	
RV423	1-238-965-21	RES, VAR, CARBON 100K/100K (BALANCE)	
		< SWITCH >	
S243	1-554-303-21	SWITCH, TACTILE (LOW BOOST)	
S253	1-554-303-21	SWITCH, TACTILE (MUTING)	
**********			
*	1-651-909-11	TRANS TM BOARD	
		**********	
	1-533-293-11	FUSE HOLDER	
		< CONNECTOR >	
* CNP806	1-564-905-11	PIN, CONNECTOR 9P	
CNP807	1-564-505-11	PLUG, CONNECTOR 2P (D615)	
		< FUSE >	
⚠F801	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (UK)	
⚠F801	1-532-350-00	FUSE (T3.15AL) (AEP, G, AUS, E)	
⚠F801	1-567-107-11	FUSE (3.15A/250V) (US, CND, MX)	
⚠F802	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (UK)	
⚠F802	1-532-350-00	FUSE (T3.15AL) (AEP, G, AUS, E)	
⚠F802	1-567-107-11	FUSE (3.15A/250V) (US, CND, 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.

VIDEO VOL SELECT

Ref.No.	Part No.	Description			Remark
*	1-651-905-11	VIDEO BOARD			
		**********			
		< CAPACITOR >			
C250	1-124-927-11	ELECT	4.7uF	20%	100V
C252	1-124-927-11	ELECT	4.7uF	20%	100V
C253	1-124-472-11	ELECT	470uF	20%	10V
C254	1-124-472-11	ELECT	470uF	20%	10V
C258	1-164-159-11	CERAMIC	0.1uF		50V
C259	1-124-477-11	ELECT	47uF	20%	25V
		< CONNECTOR >			
* CNJ251	1-691-174-11	CONNECTOR (BOARD TO BOARD) 4P			
		< IC >			
IC251	8-759-000-48	IC MC14052BCP			
		< JACK >			
J250	1-695-317-21	JACK, PIN 2P (TV/LD-VIDEO IN, VIDEO-VIDEO OUT)			
J251	1-695-317-21	JACK, PIN 2P (VIDEO-VIDEO IN, MONITOR-VIDEO OUT)			
		< TRANSISTOR >			
Q251	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q256	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q257	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q258	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q259	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q260	8-729-119-78	TRANSISTOR	2SC403SP-51		
		< RESISTOR >			
R251-253					
	1-247-804-11	CARBON	75	5%	1/4W
R254	1-249-429-11	CARBON	10K	5%	1/4W
R255	1-249-411-11	CARBON	330	5%	1/4W
R260	1-249-435-11	CARBON	33K	5%	1/4W
R261	1-249-430-11	CARBON	12K	5%	1/4W
R262	1-247-804-11	CARBON	75	5%	1/4W
R263	1-249-429-11	CARBON	10K	5%	1/4W
R264	1-249-411-11	CARBON	330	5%	1/4W
R265	1-249-423-11	CARBON	3.3K	5%	1/4W
R266	1-249-422-11	CARBON	2.7K	5%	1/4W
R267	1-249-421-11	CARBON	2.2K	5%	1/4W
R268	1-249-413-11	CARBON	470	5%	1/4W

****

Ref.No.	Part No.	Description	Remark
*	1-651-927-11	VOL SELECT BOARD (E)	
		**********	
	1-533-217-31	HOLDER, FUSE (E)	
		< CONNECTOR >	
* CNP907	1-564-215-11	PIN, CONNECTOR 4P (E)	
CNP908	1-564-321-00	PIN, CONNECTOR 2P (E)	
* CNP910	1-564-687-11	PIN, CONNECTOR 3P (E)	
		< FUSE >	
⚠F904	1-532-286-00	FUSE (3.15A/250V) (E)	
		< SWITCH >	
⚠S901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (E)	

****

MISCELLANEOUS

****

9	1-765-307-11	WIRE (FLAT TYPE) (25 CORE)	
10	1-765-298-11	WIRE (FLAT TYPE) (9 CORE)	
57	1-533-217-31	HOLDER, FUSE	
⚠61	1-575-651-11	CORD, POWER (AEP, G)	
⚠61	1-575-653-11	CORD, POWER (E)	
⚠61	1-690-609-11	CORD, POWER (US, CND, MX)	
⚠61	1-696-848-21	CORD, POWER (AUS)	
⚠61	1-751-520-21	CORD, POWER (UK)	
⚠CNJ903	1-251-078-11	OUTLET, AC (AC OUTLET) (AUS)	
⚠CNJ903	1-526-794-11	OUTLET, AC (AC OUTLET) (AEP, G)	
⚠F801	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (UK)	
⚠F801	1-532-350-00	FUSE (T3.15AL) (AEP, G, AUS, E)	
⚠F801	1-576-107-11	FUSE (3.15A/250V) (US, CND, MX)	
⚠F802	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (MX)	
⚠F802	1-532-350-00	FUSE (T3.15AL) (AEP, G, AUS, E)	
⚠F802	1-576-107-11	FUSE (3.15A/250V) (US, CND, MX)	
⚠F902	1-532-237-00	FUSE, TIME-LAG (T3.15AL) (UK)	
⚠F902	1-532-259-00	FUSE (T1.6AL/250V) (AEP, G, AUS, E, UK)	
⚠F902	1-576-109-11	FUSE (T5A/125V) (US, CND)	
⚠F903	1-532-259-00	FUSE (T1.6AL/250V) (AEP, G, AUS)	
⚠F904	1-532-286-00	FUSE (3.15A/250V) (E)	
⚠T901	1-426-708-11	TRANSFORMER, POWER (D615:US, CND)	
⚠T901	1-426-709-11	TRANSFORMER, POWER (D615:AEP, G, AUS)	
⚠T901	1-426-710-11	TRANSFORMER, POWER (E)	
⚠T901	1-426-711-11	TRANSFORMER, POWER (D515:US, CND)	
⚠T901	1-426-712-11	TRANSFORMER, POWER (D515:AEP, G, AUS)	
⚠T901	1-427-630-11	TRANSFORMER, POWER (D615:UK)	
⚠T901	1-427-675-11	TRANSFORMER, POWER (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.

Ref. No.	Part No.	Description	Remark

HARDWARE LIST

#1	7-621-849-00	SCREW, TAPPING	
#2	7-682-547-09	SCREW +BVTT 3X6 (S)	
#3	7-682-548-04	SCREW +BVTT 3X8 (S)	
#4	7-682-548-09	SCREW +BVTT 3X8 (S)	
#5	7-682-560-04	SCREW +BVTT 4X6 (S)	
#6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#7	7-685-645-79	SCREW +BTP 3X6 TYPE2 N-S	
#8	7-685-871-01	SCREW +BVTT 3X6 (S)	
#9	7-685-546-19	SCREW +BVP 3X8 TYPE2 N-S	

ACCESSORIES & PACKING MATERIALS

	1-467-636-11	REMOTE COMMANDER (RM-U242) (D515:US, CND, UK, MX/D615:US, CND)	
	1-467-710-11	REMOTE COMMANDER (RM-P342) (D615:AEP, E, G, AUS, UK)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM) (UK)	
	3-758-408-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (AEP)	
	3-758-408-21	MANUAL, INSTRUCTION (ENGLISH) (US, CND, AUS, UK)	
	3-758-408-31	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-758-408-41	MANUAL, INSTRUCTION (SPANISH, SWEDISH, DANISH, FINNISH) (AEP)	
	3-758-408-51	MANUAL, INSTRUCTION (GERMAN) (G, MX)	
	3-758-408-61	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (E)	
	3-758-408-71	MANUAL, INSTRUCTION (SPANISH) (MX)	
	3-758-708-21	MANUAL, INSTRUCTION (ENGLISH) (D615:AUS, UK)	
*	4-952-676-01	CUSHION	
*	4-967-026-01	INDIVIDUAL CARTON (D515:US, CND, AUS, MX)	
*	4-967-027-01	INDIVIDUAL CARTON (D515:AEP, G, UK)	
*	4-967-028-01	INDIVIDUAL CARTON (D615:US, CND, E, AUS)	
*	4-967-029-01	INDIVIDUAL CARTON (D615:AEP, G, UK)	

9-959-464-12

Sony Corporation
Consumer A & V Products Company
Home A & V Products Div.

English
94H0418-1
Printed in Japan
© 1994. 8

Published by Home A & V Products Div.
Quality Engineering Dept.

STR-D515/D615

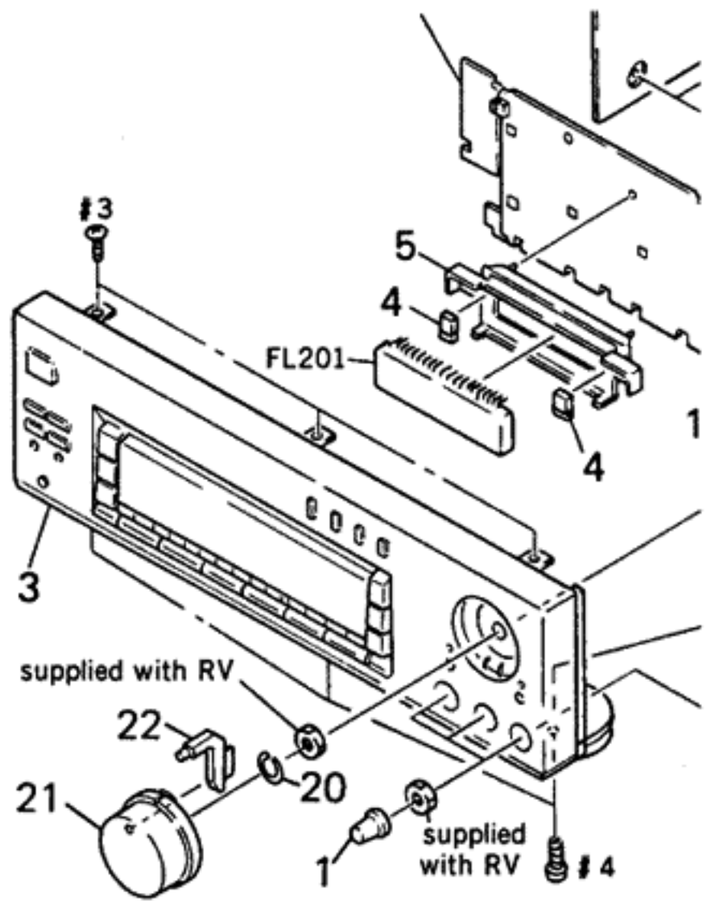
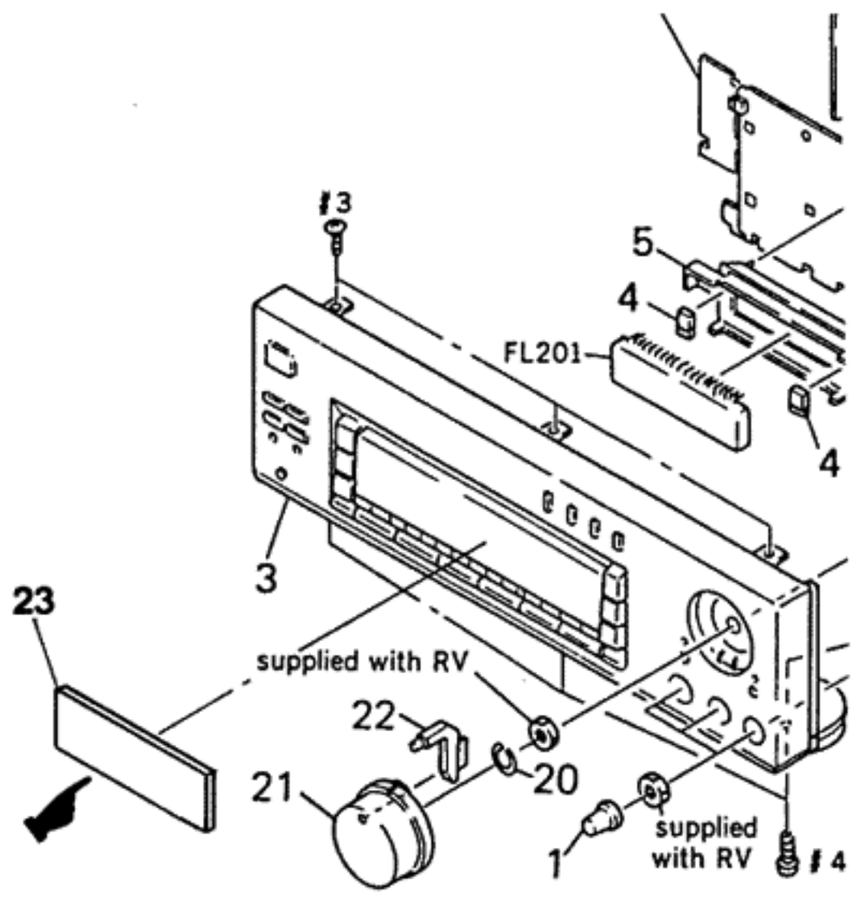
SONY
SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
Australian Model
STR-D515/D615
E Model
STR-D615
Mexican Model
STR-D515

SUPPLEMENT-1

Revise your service manual as shown below due to parts supply classification has been changed.

☛ : indicates revised portion

Page	CURRENT	REVISED
29		

Ref. No.	Part No.	Description	Remark

Ref. No.	Part No.	Description	Remark
23	4-965-344-05	PLATE, INDICATION (US, Canadian, Mexican)	
23	4-965-344-15	PLATE, INDICATION (AEP, UK, E, Australian, German)	

(RPC-95014)

9-959-464-81

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
95C09107-1
Printed in Japan

© 1995. 3

Published by Home A&V Products Div.
Quality Engineering Dept.

STR-D515/D615

SONY
SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
Australian Model
STR-D515/D615
E Model
STR-D615
Mexican Model
STR-D515

SUPPLEMENT-2

File this supplement with the service manual.

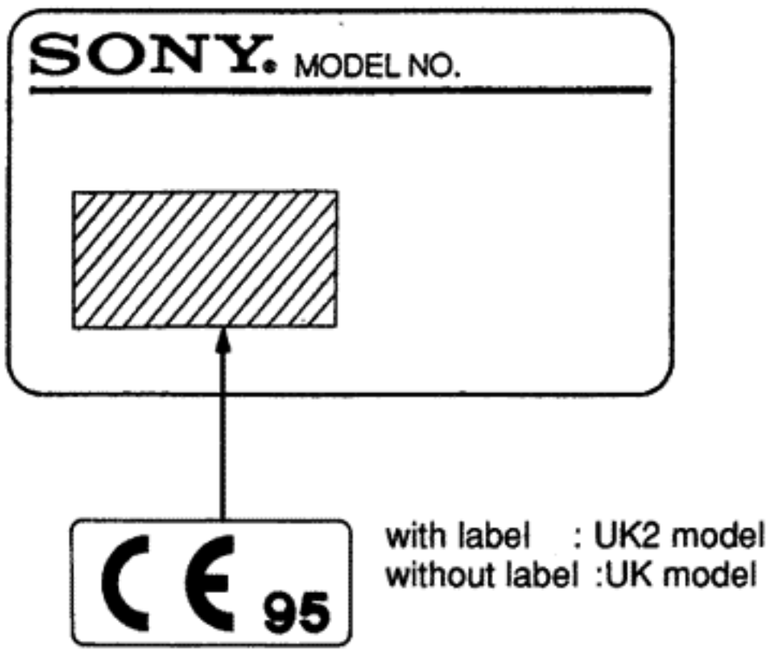
Subject : • MODEL ADDITION (STR-D515 : UK2 model)

(ENG-95020)

- The UK2 model is added to STR-D515. The following shows you how to identify between UK model and UK2 model.
- This service manual supplement-2 is for the UK2 model only. Regarding the information which is not contatined in this service manual, Refer to the previous issued service manual for UK model. Therfore, Refer to the service manual for the information whitch is not contained in this service manual supplement-2.

How to identify the UK2 model

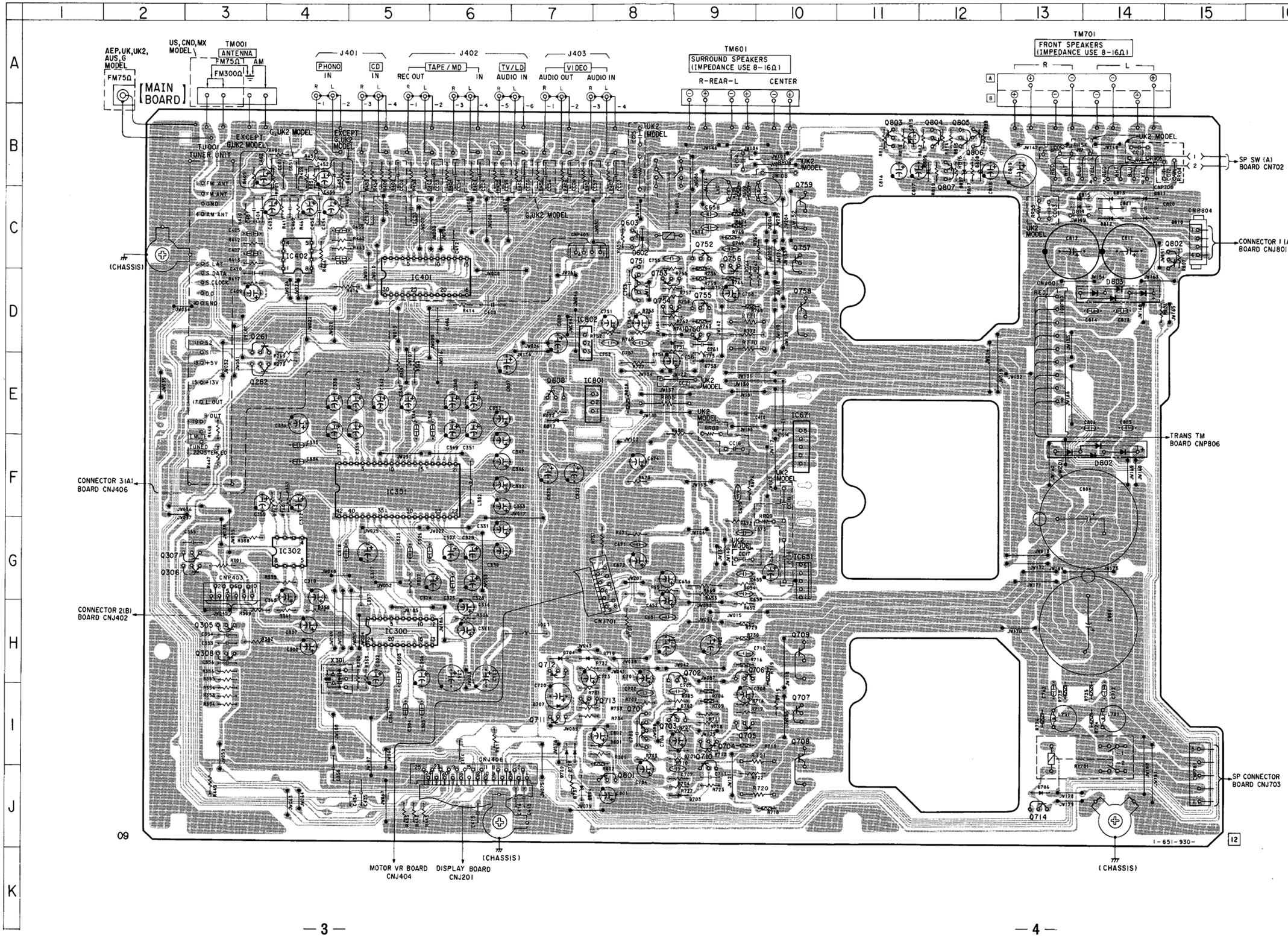
— SPECIFICATION LABEL —



Difference between UK model and UK2 model. (Exploded views)

Page	STR-D515 (UK model)				STR-D515 (UK2 model)			
	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
31	* 66	A-4369-678-A	MAIN BOARD, COMPLETE		* 66	A-4378-823-A	MAIN BOARD, COMPLETE	

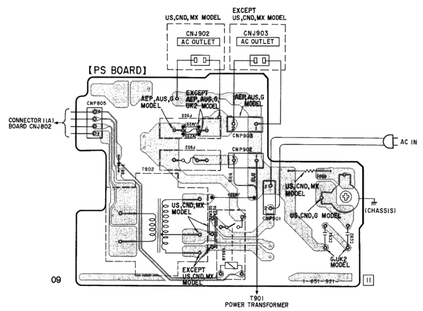
PRINTED WIRING BOARD — MAIN SECTION —



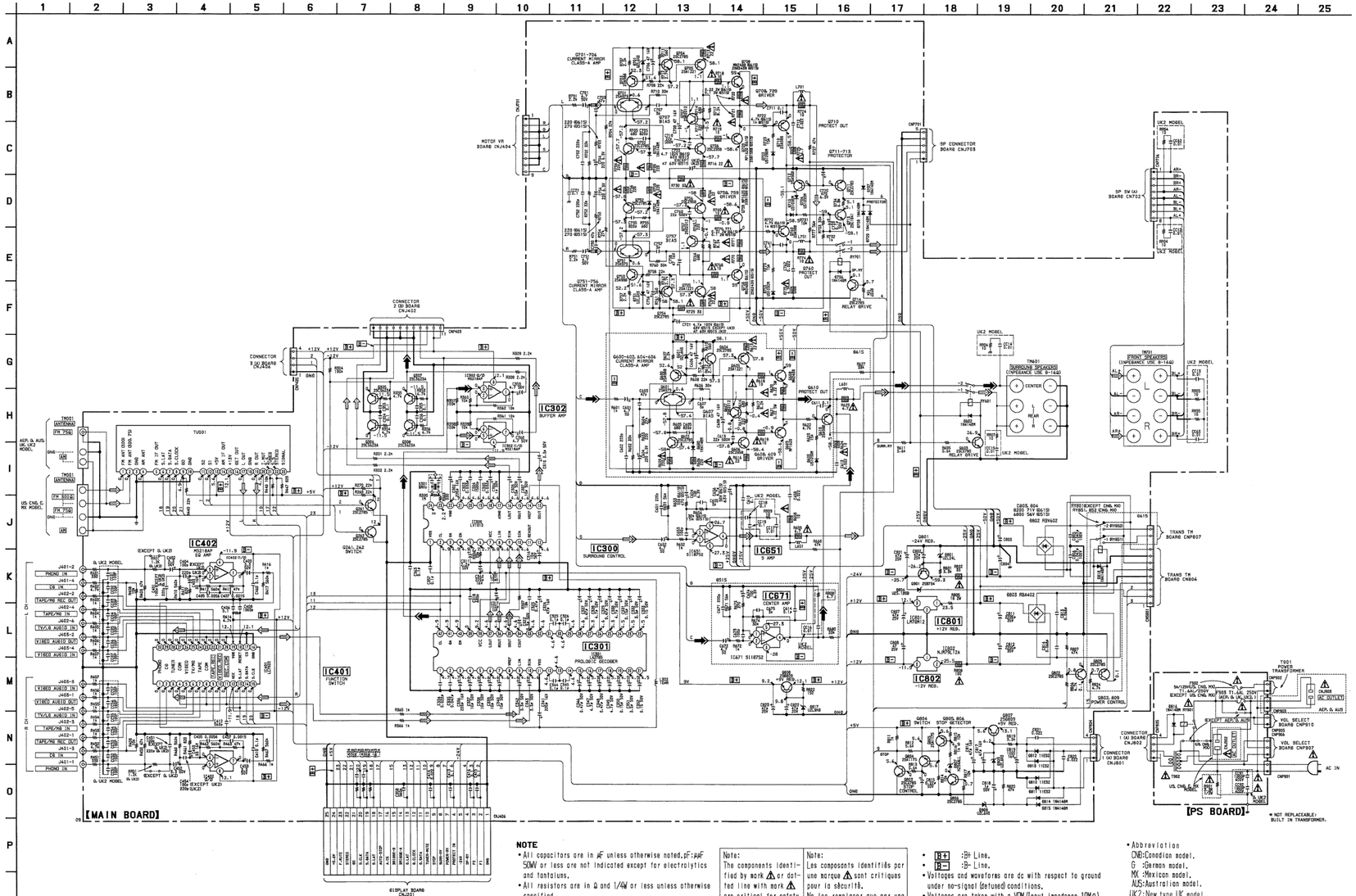
SCHEMATIC DIAGRAM — MAIN SECTION —

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D602	C-8	Q262	E-3
D701	I-9	Q305	H-3
D702	I-9	Q306	G-2
D703	J-9	Q307	G-2
D704	H-7	Q308	H-3
D706	J-13	Q603	C-8
D707	I-7	Q701	I-8
D708	I-7	Q702	H-9
D709	I-7	Q703	I-9
D710	H-8	Q704	I-9
D751	D-9	Q705	I-9
D753	E-9	Q706	H-9
D801	I-8	Q707	I-10
D802	F-14	Q708	I-10
D803	D-14	Q709	H-10
D804	J-7	Q710	I-9
D807	B-12	Q711	I-7
D808	B-12	Q712	H-7
D809	B-12	Q713	I-8
D810	C-14	Q714	J-13
D811	C-14	Q751	C-8
D812	C-14	Q752	C-9
D813	C-14	Q753	D-8
D814	C-13	Q754	D-8
D815	C-13	Q755	D-9
D817	E-7	Q756	C-9
		Q757	C-10
IC300	H-5	Q758	D-10
IC301	F-5	Q759	C-10
IC302	G-4	Q760	D-9
IC401	D-5	Q801	J-8
IC402	C-4	Q802	C-15
IC651	G-10	Q803	B-11
IC671	E-10	Q804	B-12
IC801	E-8	Q805	B-12
IC802	D-7	Q806	B-12
		Q807	B-12
Q261	D-3	Q808	E-7



Note:
- ○—— : parts extracted from the components side.
- △ : Internal component.
- ▭ : Pattern from the side which enable seeing.
- Abbreviation
  CND : Canadian model.
  G : German model.
  MX : Mexican model
  AUS : Australian model.
  UK2 : New type UK model.



NOTE
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : Internal component.
- ▭ : nonflammable resistor.
- ▭ : panel designation.

Note:	Note:
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.

- B+ : B+ Line.
- B− : B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

- Abbreviation
  CND: Canadian model.
  G : German model.
  MX : Mexican model.
  AUS: Australian model.
  UK2: New type UK model.
- Signal path.
  ⇨ : FM
  ⇨ : SURROUND
  ➡ : CENTER

SECTION 6
ELECTRICAL PARTS LIST

MAIN

NOTE:

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 piéce portant le numéro spécifié.

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

- 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
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH

Ref.No.	Part No.	Description			Remark
*	A-4378-823-A	MAIN BOARD, COMPLETE			
		**********			
	3-905-609-01	SCREW (TRANSISTOR)			
	4-812-134-00	RIVET (DIA. 3.5), NYLON			
*	4-942-204-11	PLATE, GROUND			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C302	1-124-120-11	ELECT	220uF	20%	25V
C303	1-130-489-00	MYLAR	0.033uF	5%	50V
C304	1-137-365-11	FILM	0.0015uF	5%	50V
C305	1-130-489-00	MYLAR	0.033uF	5%	50V
C306	1-124-903-11	ELECT	1uF	20%	50V
C307	1-124-907-11	ELECT	10uF	20%	50V
C308	1-124-907-11	ELECT	10uF	20%	50V
C310	1-126-962-11	ELECT	3.3uF	20%	50V
C311	1-126-961-11	ELECT	2.2uF	20%	50V
C316	1-124-907-11	ELECT	10uF	20%	50V
C317	1-104-665-11	ELECT	100uF	20%	16V
C318	1-137-363-91	FILM	680PF	5%	50V
C322	1-126-962-11	ELECT	3.3uF	20%	50V
C323	1-136-173-00	FILM	0.47uF	5%	50V
C324	1-104-664-11	ELECT	47uF	20%	16V
C325	1-137-399-11	FILM	0.1uF	5%	50V
C326	1-137-399-11	FILM	0.1uF	5%	50V
C327	1-124-902-00	ELECT	0.47uF	20%	50V
C328	1-126-963-11	ELECT	4.7uF	20%	50V
C329	1-124-902-00	ELECT	0.47uF	20%	50V
C330	1-126-963-11	ELECT	4.7uF	20%	50V
C331	1-124-250-11	ELECT	0.15uF	20%	50V
C332	1-126-962-11	ELECT	3.3uF	20%	50V
C333	1-124-250-11	ELECT	0.15uF	20%	50V
C334	1-137-372-11	FILM	0.022uF	5%	50V
C335	1-136-161-00	FILM	0.047uF	5%	50V
C336	1-124-120-11	ELECT	220uF	20%	25V
C337	1-124-907-11	ELECT	10uF	20%	50V
C338	1-124-907-11	ELECT	10uF	20%	50V
C339	1-124-907-11	ELECT	10uF	20%	50V
C340	1-124-907-11	ELECT	10uF	20%	50V
C341	1-124-120-11	ELECT	220uF	20%	25V
C342	1-126-962-11	ELECT	3.3uF	20%	50V
C343	1-126-962-11	ELECT	3.3uF	20%	50V

Ref.No.	Part No.	Description			Remark
C344	1-137-399-11	FILM	0.1uF	5%	50V
C345	1-137-399-11	FILM	0.1uF	5%	50V
C346	1-124-902-00	ELECT	0.47uF	20%	50V
C347	1-126-963-11	ELECT	4.7uF	20%	50V
C348	1-124-902-00	ELECT	0.47uF	20%	50V
C349	1-126-963-11	ELECT	4.7uF	20%	50V
C350	1-124-250-11	ELECT	0.15uF	20%	50V
C351	1-126-962-11	ELECT	3.3uF	20%	50V
C352	1-124-250-11	ELECT	0.15uF	20%	50V
C353	1-164-159-11	CERAMIC	0.1uF		50V
C354	1-164-159-11	CERAMIC	0.1uF		50V
C355	1-164-159-11	CERAMIC	0.1uF		50V
C356	1-164-159-11	CERAMIC	0.1uF		50V
C357	1-164-159-11	CERAMIC	0.1uF		50V
C358	1-162-291-31	CERAMIC	560PF	10%	50V
C359	1-126-963-11	ELECT	4.7uF	20%	50V
C360	1-126-963-11	ELECT	4.7uF	20%	50V
C362	1-124-120-11	ELECT	220uF	20%	25V
C363	1-164-159-11	CERAMIC	0.1uF		50V
C401	1-162-286-31	CERAMIC	220PF	10%	50V
C402	1-126-962-11	ELECT	3.3uF	20%	50V
C403	1-104-663-11	ELECT	33uF	20%	16V
C404	1-162-286-31	CERAMIC	220PF	10%	50V
C405	1-137-459-11	FILM	0.0056uF	5%	100V
C406	1-164-159-11	CERAMIC	0.1uF		50V
C407	1-137-365-11	FILM	0.0015uF	5%	50V
C408	1-162-294-31	CERAMIC	0.001uF	10%	50V
C409	1-126-962-11	ELECT	3.3uF	20%	50V
C410	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-162-291-31	CERAMIC	560PF	10%	50V
C413	1-164-159-11	CERAMIC	0.1uF		50V
C414	1-161-494-00	CERAMIC	0.022uF		25V
C415	1-164-159-11	CERAMIC	0.1uF		50V
C416	1-164-159-11	CERAMIC	0.1uF		50V
C434	1-162-286-31	CERAMIC	220PF	10%	50V
C435	1-162-286-31	CERAMIC	220PF	10%	50V
C451	1-162-286-31	CERAMIC	220PF	10%	50V
C452	1-126-962-11	ELECT	3.3uF	20%	50V
C453	1-104-663-11	ELECT	33uF	20%	16V
C454	1-162-286-31	CERAMIC	220PF	10%	50V
C455	1-137-459-11	FILM	0.0056uF	5%	100V

MAIN

Ref.No.	Part No.	Description			Remark
C457	1-137-365-11	FILM	0.0015uF	5%	50V
C459	1-126-962-11	ELECT	3.3uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C610	1-164-159-11	CERAMIC	0.1uF		50V
C612	1-137-372-11	FILM	0.022uF	5%	50V
C614	1-164-159-11	CERAMIC	0.1uF		50V
C651	1-102-110-00	CERAMIC	220PF	10%	50V
C652	1-126-963-11	ELECT	4.7uF	20%	50V
C653	1-102-973-00	CERAMIC	100PF	5%	50V
C654	1-126-968-11	ELECT	100uF	20%	6.3V
C655	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C656	1-128-581-11	ELECT	4.7uF	20%	63V
C658	1-137-372-11	FILM	0.022uF	5%	50V
C671	1-102-110-00	CERAMIC	220PF	10%	50V
C672	1-126-963-11	ELECT	4.7uF	20%	50V
C673	1-102-973-00	CERAMIC	100PF	5%	50V
C674	1-126-968-11	ELECT	100uF	20%	6.3V
C675	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C701	1-126-963-11	ELECT	4.7uF	20%	50V
C702	1-102-110-00	CERAMIC	220PF	10%	50V
C703	1-162-215-31	CERAMIC	47PF	5%	50V
C704	1-104-666-11	ELECT	220uF	20%	6.3V
C705	1-102-117-00	CERAMIC	820PF	10%	50V
C706	1-104-664-11	ELECT	47uF	20%	16V
C707	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C708	1-104-664-11	ELECT	47uF	20%	16V
C710	1-107-597-11	CERAMIC	22PF	10%	500V
C711	1-164-159-11	CERAMIC	0.1uF		50V
C712	1-137-372-11	FILM	0.022uF	5%	50V
C720	1-126-941-11	ELECT	470uF	20%	6.3V
C721	1-124-918-11	ELECT	47uF	20%	63V
C722	1-124-918-11	ELECT	47uF	20%	63V
C723	1-124-463-00	ELECT	0.1uF	20%	50V
C751	1-126-963-11	ELECT	4.7uF	20%	50V
C752	1-102-110-00	CERAMIC	220PF	10%	50V
C753	1-162-215-31	CERAMIC	47PF	5%	50V
C754	1-104-666-11	ELECT	220uF	20%	6.3V
C755	1-102-117-00	CERAMIC	820PF	10%	50V
C756	1-104-664-11	ELECT	47uF	20%	16V
C757	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C758	1-104-664-11	ELECT	47uF	20%	16V
C760	1-107-597-11	CERAMIC	22PF	10%	500V
C761	1-164-159-11	CERAMIC	0.1uF		50V
C762	1-137-372-11	FILM	0.022uF	5%	50V
C801	1-124-477-11	ELECT	47uF	20%	25V
C802	1-124-477-11	ELECT	47uF	20%	25V
C803	1-128-591-11	ELECT	6800uF	20%	56V
C804	1-128-591-11	ELECT	6800uF	20%	56V
C805	1-137-420-11	FILM	0.047uF	10%	100V
C806	1-137-420-11	FILM	0.047uF	10%	100V
C807	1-124-477-11	ELECT	47uF	20%	25V
C808	1-124-477-11	ELECT	47uF	20%	25V
C811	1-124-618-11	ELECT	2200uF	20%	35V
C812	1-124-618-11	ELECT	2200uF	20%	35V
C813	1-137-375-11	FILM	0.068uF	5%	50V
C814	1-137-375-11	FILM	0.068uF	5%	50V
C815	1-124-464-11	ELECT	0.22uF	20%	50V
C816	1-104-664-11	ELECT	47uF	20%	16V
C817	1-104-664-11	ELECT	47uF	20%	16V
C818	1-124-903-11	ELECT	1uF	20%	50V
C819	1-126-942-61	ELECT	1000uF	20%	16V
C820	1-161-494-00	CERAMIC	0.022uF		25V
C821	1-161-494-00	CERAMIC	0.022uF		25V
C822	1-124-477-11	ELECT	47uF	20%	25V
C823	1-124-477-11	ELECT	47uF	20%	25V
CC01	1-162-282-31	CERAMIC	100PF	10%	50V
CC02	1-162-282-31	CERAMIC	100PF	10%	50V
CC03	1-162-282-31	CERAMIC	100PF	10%	50V
CC04	1-162-282-31	CERAMIC	100PF	10%	50V
CC05	1-162-282-31	CERAMIC	100PF	10%	50V
CC06	1-162-282-31	CERAMIC	100PF	10%	50V
CC07	1-162-282-31	CERAMIC	100PF	10%	50V
CC12	1-164-096-11	CERAMIC	0.01uF		50V
CC13	1-164-096-11	CERAMIC	0.01uF		50V
CC14	1-164-096-11	CERAMIC	0.01uF		50V
CC15	1-164-096-11	CERAMIC	0.01uF		50V
CC16	1-164-096-11	CERAMIC	0.01uF		50V
CC17	1-164-096-11	CERAMIC	0.01uF		50V
CC18	1-164-159-11	CERAMIC	0.1uF		50V
CC19	1-164-159-11	CERAMIC	0.1uF		50V
CC20	1-164-159-11	CERAMIC	0.1uF		50V
CC21	1-164-159-11	CERAMIC	0.1uF		50V
CC51	1-162-282-31	CERAMIC	100PF	10%	50V
CC52	1-162-282-31	CERAMIC	100PF	10%	50V
CC53	1-162-282-31	CERAMIC	100PF	10%	50V
CC54	1-162-282-31	CERAMIC	100PF	10%	50V
CC55	1-162-282-31	CERAMIC	100PF	10%	50V
CC56	1-162-282-31	CERAMIC	100PF	10%	50V
CC57	1-162-282-31	CERAMIC	100PF	10%	50V
CC62	1-164-096-11	CERAMIC	0.01uF		50V
CC63	1-164-096-11	CERAMIC	0.01uF		50V

< CONNECTOR >

*	CNJ406	1-764-930-11	CONNECTOR, FFC(LIF(NON-ZIF))25P
*	CNJ701	1-764-914-11	CONNECTOR, FFC(LIF(NON-ZIF))9P
*	CNP403	1-750-384-11	CONNECTOR, BOARD TO BOARD 11P
	CNP405	1-691-161-11	PIN, CONNECTOR 4P
	CNP701	1-750-388-11	PIN, CONNECTOR 5P
*	CNP706	1-564-674-11	PIN, CONNECTOR 8P
*	CNP804	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P

Ref.No.	Part No.	Description	Remark
		< DIODE >	
D602	8-719-987-63	DIODE 1N4148M	
D701	8-719-933-41	DIODE HZS6C3L	
D702	8-719-987-63	DIODE 1N4148M	
D703	8-719-815-85	DIODE 1S1585	
D704	8-719-815-85	DIODE 1S1585	
D706	8-719-987-63	DIODE 1N4148M	
D707	8-719-987-63	DIODE 1N4148M	
D708	8-719-987-63	DIODE 1N4148M	
D709	8-719-987-63	DIODE 1N4148M	
D710	8-719-815-85	DIODE 1S1585	
D751	8-719-933-41	DIODE HZS6C3L	
D752	8-719-987-63	DIODE 1N4148M	
D753	8-719-815-85	DIODE 1S1585	
D801	8-719-002-33	DIODE UZL-24L	
D802	8-719-302-38	DIODE RBV-602-01	
D803	8-719-025-03	DIODE RBA-402-SL	
D804	8-719-010-38	DIODE UZ-5.1BSB	
D807	8-719-985-53	DIODE HZS4ALL	
D808	8-719-933-41	DIODE HZS6C3L	
D809	8-719-933-41	DIODE HZS6C3L	
D810	8-719-024-99	DIODE 11ES2-NTA2B	
D811	8-719-024-99	DIODE 11ES2-NTA2B	
D812	8-719-024-99	DIODE 11ES2-NTA2B	
D813	8-719-024-99	DIODE 11ES2-NTA2B	
D814	8-719-987-63	DIODE 1N4148M	
D815	8-719-987-63	DIODE 1N4148M	
D817	8-719-001-30	DIODE UZL-9H3	
		< IC >	
IC300	8-759-168-98	IC LV1010N	
IC301	8-759-248-74	IC LA2785	
IC302	8-759-636-74	IC M5218AP-22	
IC401	8-759-805-14	IC LC7822	
IC402	8-759-636-74	IC M5218AP-22	
IC651	8-759-502-33	IC SI18752	
IC671	8-759-502-33	IC SI18752	
IC801	8-759-287-58	IC TA78M12P	
IC802	8-759-700-69	IC NJM79L12A	
		< JACK >	
J401	1-695-188-21	JACK, PIN 4P(PHONO IN, CD IN)	
J402	1-580-825-11	JACK, PIN 6P(TAPE/MD-REC OUT, TAPE/MD-IN)	
J403	1-695-188-21	JACK, PIN 4P (VIDEO-AUDIO OUT, VIDEO-AUDIO IN)	
		< COIL >	
L301	1-410-509-11	INDUCTOR 10uH	
L302	1-410-509-11	INDUCTOR 10uH	
L601	1-420-872-00	COIL, AIR CORE	
L651	1-420-872-00	COIL, AIR CORE	
L701	1-420-872-00	COIL, AIR CORE	
L751	1-420-872-00	COIL, AIR CORE	
		< TRANSISTOR >	
Q261	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q262	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q305	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q306	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q307	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q308	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q603	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q701	8-729-620-18	TRANSISTOR 2SA979-FG	
Q702	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q703	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q704	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q705	8-729-122-13	TRANSISTOR 2SA1221-K	
Q706	8-729-195-82	TRANSISTOR 2SC2958	
Q707	8-729-209-15	TRANSISTOR 2SD2012	
Q708	8-729-020-52	TRANSISTOR 2SD2439-OPY	
Q709	8-729-020-48	TRANSISTOR 2SB1588-OPY	
Q710	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q711	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q712	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q714	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q751	8-729-620-18	TRANSISTOR 2SA979-FG	
Q752	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q753	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q754	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q755	8-729-122-13	TRANSISTOR 2SA1221-K	
Q756	8-729-195-82	TRANSISTOR 2SC2958	
Q757	8-729-209-15	TRANSISTOR 2SD2012	
Q758	8-729-020-52	TRANSISTOR 2SD2439-OPY	
Q759	8-729-020-48	TRANSISTOR 2SB1588-OPY	
Q760	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q801	8-729-140-97	TRANSISTOR 2SB734-34	
Q802	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q803	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q804	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q806	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q807	8-729-180-92	TRANSISTOR 2SD809-K	
Q808	8-729-180-92	TRANSISTOR 2SD809-K	
		< RESISTOR >	
R269	1-249-433-11	CARBON 22K 5% 1/4W	
R270	1-249-433-11	CARBON 22K 5% 1/4W	
R300	1-247-903-00	CARBON 1M 5% 1/4W	
R301	1-249-421-11	CARBON 2.2K 5% 1/4W	F

MAIN

Ref.No.	Part No.	Description				Remark
R302	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R304	1-249-441-11	CARBON	100K	5%	1/4W	
R306	1-249-436-11	CARBON	39K	5%	1/4W	
R307	1-249-432-11	CARBON	18K	5%	1/4W	
R308	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R309	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R353	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R354	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R355	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R356	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R357	1-249-441-11	CARBON	100K	5%	1/4W	
R358	1-249-441-11	CARBON	100K	5%	1/4W	
R359	1-249-429-11	CARBON	10K	5%	1/4W	
R360	1-249-429-11	CARBON	10K	5%	1/4W	
R361	1-249-429-11	CARBON	10K	5%	1/4W	
R362	1-249-429-11	CARBON	10K	5%	1/4W	
R363	1-249-411-11	CARBON	330	5%	1/4W	
R365	1-249-417-11	CARBON	1K	5%	1/4W	F
R366	1-249-417-11	CARBON	1K	5%	1/4W	F
R401	1-249-411-11	CARBON	330	5%	1/4W	
R402	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R403	1-249-417-11	CARBON	1K	5%	1/4W	F
R404	1-249-417-11	CARBON	1K	5%	1/4W	F
R405	1-249-417-11	CARBON	1K	5%	1/4W	F
R406	1-249-417-11	CARBON	1K	5%	1/4W	F
R407	1-249-417-11	CARBON	1K	5%	1/4W	F
R408	1-249-429-11	CARBON	10K	5%	1/4W	
R409	1-249-437-11	CARBON	47K	5%	1/4W	
R410	1-247-897-11	CARBON	560K	5%	1/4W	
R411	1-249-416-11	CARBON	820	5%	1/4W	F
R412	1-247-897-11	CARBON	560K	5%	1/4W	
R413	1-249-437-11	CARBON	47K	5%	1/4W	
R414	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R416	1-249-417-11	CARBON	1K	5%	1/4W	F
R417	1-247-897-11	CARBON	560K	5%	1/4W	
R435	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R442	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R443	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R447	1-249-416-11	CARBON	820	5%	1/4W	F
R448	1-249-429-11	CARBON	10K	5%	1/4W	
R449	1-249-433-11	CARBON	22K	5%	1/4W	
R451	1-249-411-11	CARBON	330	5%	1/4W	
R452	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R453	1-249-417-11	CARBON	1K	5%	1/4W	F
R454	1-249-417-11	CARBON	1K	5%	1/4W	F
R455	1-249-417-11	CARBON	1K	5%	1/4W	F
R456	1-249-417-11	CARBON	1K	5%	1/4W	F
R457	1-249-417-11	CARBON	1K	5%	1/4W	F
R458	1-249-429-11	CARBON	10K	5%	1/4W	
R459	1-249-437-11	CARBON	47K	5%	1/4W	
R460	1-247-897-11	CARBON	560K	5%	1/4W	
R461	1-249-416-11	CARBON	820	5%	1/4W	F
R462	1-247-897-11	CARBON	560K	5%	1/4W	
R463	1-249-437-11	CARBON	47K	5%	1/4W	
R466	1-249-417-11	CARBON	1K	5%	1/4W	F
R467	1-247-897-11	CARBON	560K	5%	1/4W	
R601	1-249-417-11	CARBON	1K	5%	1/4W	F
R611	1-249-426-11	CARBON	5.6K	5%	1/4W	
⚠R624	1-249-393-11	CARBON	10	5%	1/4W	F
R625	1-249-389-11	CARBON	4.7	5%	1/4W	F
R651	1-249-438-11	CARBON	56K	5%	1/4W	
R652	1-249-417-11	CARBON	1K	5%	1/4W	F
R653	1-249-413-11	CARBON	470	5%	1/4W	F
R654	1-249-431-11	CARBON	15K	5%	1/4W	
R655	1-249-426-11	CARBON	5.6K	5%	1/4W	
⚠R658	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R659	1-249-389-11	CARBON	4.7	5%	1/4W	F
R660	1-249-437-11	CARBON	47K	5%	1/4W	
R671	1-249-438-11	CARBON	56K	5%	1/4W	
R672	1-249-417-11	CARBON	1K	5%	1/4W	F
R673	1-249-410-11	CARBON	270	5%	1/4W	F
R674	1-247-866-11	CARBON	30K	5%	1/4W	
R680	1-249-435-11	CARBON	33K	5%	1/4W	
R701	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R702	1-249-435-11	CARBON	33K	5%	1/4W	
R703	1-249-410-11	CARBON	270	5%	1/4W	F
R704	1-249-434-11	CARBON	27K	5%	1/4W	
R705	1-249-415-11	CARBON	680	5%	1/4W	F
⚠R706	1-249-409-11	CARBON	220	5%	1/4W	F
R707	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R708	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R709	1-249-409-11	CARBON	220	5%	1/4W	F
R710	1-247-866-11	CARBON	30K	5%	1/4W	
R711	1-249-414-11	CARBON	560	5%	1/4W	F
R712	1-249-422-11	CARBON	2.7K	5%	1/4W	F
⚠R713	1-249-397-11	CARBON	22	5%	1/4W	F
R714	1-249-415-11	CARBON	680	5%	1/4W	F
R715	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R716	1-249-397-11	CARBON	22	5%	1/4W	F
R717	1-249-428-11	CARBON	8.2K	5%	1/4W	F
⚠R718	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R719	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R720	1-208-601-11	WIREWOUND	0.1	10%	2W	F
⚠R721	1-208-601-11	WIREWOUND	0.1	10%	2W	F
R722	1-249-417-11	CARBON	1K	5%	1/4W	F
R723	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R724	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R725	1-249-389-11	CARBON	4.7	5%	1/4W	F
R727	1-249-437-11	CARBON	47K	5%	1/4W	
R729	1-249-887-11	CARBON	33	5%	1/4W	F

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 piéce portant le numéro spécifié.

Ref.No.	Part No.	Description				Remark
⚠R730	1-249-887-11	CARBON	33	5%	1/4W	F
R731	1-249-429-11	CARBON	10K	5%	1/4W	
R732	1-249-417-11	CARBON	1K	5%	1/4W	F
R733	1-249-435-11	CARBON	33K	5%	1/4W	
R734	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R737	1-249-429-11	CARBON	10K	5%	1/4W	
R751	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R752	1-249-435-11	CARBON	33K	5%	1/4W	
R753	1-249-410-11	CARBON	270	5%	1/4W	F
R754	1-249-434-11	CARBON	27K	5%	1/4W	
R755	1-249-415-11	CARBON	680	5%	1/4W	F
⚠R756	1-249-409-11	CARBON	220	5%	1/4W	F
R757	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R758	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R759	1-249-409-11	CARBON	220	5%	1/4W	F
R760	1-247-866-11	CARBON	30K	5%	1/4W	
R761	1-249-414-11	CARBON	560	5%	1/4W	F
R762	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R763	1-249-397-11	CARBON	22	5%	1/4W	F
R764	1-249-415-11	CARBON	680	5%	1/4W	F
R765	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R766	1-249-397-11	CARBON	22	5%	1/4W	F
R767	1-249-428-11	CARBON	8.2K	5%	1/4W	F
⚠R768	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R769	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R770	1-208-601-11	WIREWOUND	0.1	10%	.2W	F
⚠R771	1-208-601-11	WIREWOUND	0.1	10%	2W	F
R772	1-249-417-11	CARBON	1K	5%	1/4W	F
R773	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R774	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R775	1-249-389-11	CARBON	4.7	5%	1/4W	F
R777	1-249-438-11	CARBON	56K	5%	1/4W	
R801	1-249-423-11	CARBON	3.3K	5%	1/4W	F
⚠R802	1-249-887-11	CARBON	33	5%	1/4W	F
R805	1-216-446-00	METAL OXIDE	18	5%	2W	F
R806	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R807	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R808	1-249-405-11	CARBON	100	5%	1/4W	F
R811	1-249-417-11	CARBON	1K	5%	1/4W	F
R812	1-249-426-11	CARBON	5.6K	5%	1/4W	
R813	1-249-426-11	CARBON	5.6K	5%	1/4W	
R814	1-249-429-11	CARBON	10K	5%	1/4W	
R815	1-249-429-11	CARBON	10K	5%	1/4W	
R816	1-249-417-11	CARBON	1K	5%	1/4W	F
R817	1-249-429-11	CARBON	10K	5%	1/4W	
R819	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R820	1-249-437-11	CARBON	47K	5%	1/4W	
R822	1-249-407-11	CARBON	150	5%	1/4W	F
RR01	1-249-418-11	CARBON	1.2K	5%	1/4W	F
RR04	1-249-393-11	CARBON	10	5%	1/4W	F
RR05	1-249-393-11	CARBON	10	5%	1/4W	F
RR06	1-249-393-11	CARBON	10	5%	1/4W	F
RR07	1-249-393-11	CARBON	10	5%	1/4W	F
RR08	1-249-389-11	CARBON	4.7	5%	1/4W	F
RR09	1-249-393-11	CARBON	10	5%	1/4W	F
RR51	1-249-418-11	CARBON	1.2K	5%	1/4W	F
RR54	1-249-393-11	CARBON	10	5%	1/4W	F
RR55	1-249-393-11	CARBON	10	5%	1/4W	F

< RELAY >

RY601	1-515-920-11	RELAY (24V)
RY701	1-515-920-11	RELAY (24V)

< TERMINAL >

TM001	1-537-714-11	TERMINAL BOARD (ANTENNA)
TM601	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P) (SURROUND SPEAKERS)
TM701	1-537-376-11	TERMINAL BOARD (SP) (FRONT SPEAKERS)

< TUNER >

TU001	1-239-562-11	ENCAPSULATED COMPONENT

< VIBRATOR >

X301	1-579-952-21	VIBRATOR, CERAMIC (8MHz)

****

*	1-651-921-11	PS BOARD			
		********			

< CAPACITOR >

CC91	1-161-741-00	CERAMIC	0.001uF	10%	400V
CC92	1-161-741-00	CERAMIC	0.001uF	10%	400V

< CONNECTOR >

* CNP805	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P
* CNP901	1-564-321-11	PIN, CONNECTOR 2P
CNP902	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P

< DIODE >

D816	8-719-987-63	DIODE 1N4148M

< FUSE >

⚠F902	1-532-259-00	FUSE (T1.6AL/250V)

< RELAY >

⚠RY901	1-755-018-11	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 piéce portant le numéro spécifié.

PS

Ref.No.	Part No.	Description	Remark
		< TRANSFORMER >	
⚠T902	1-450-358-11	TRANSFORMER, POWER	
**********			

Ref.No.	Part No.	Description	Remark

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 piéce portant le numéro spécifié.

9-959-464-82

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
95K097514-1
Printed in Germany
© 1995. 11
Published by Home A&V Products Div.
Quality Engineering Dept.

STR-D515/D615

SONY
SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
Australian Model
STR-D515/D615
E Model
STR-D615
Mexican Model
STR-D515

CORRECTION-1

Correct your service manual as shown below.

☛ : indicates corrected portion.

Page	INCORRECT				CORRECT		
	Ref. No.	Part No.	Description	Remark	Part No.	Description	Remark
31	Q709	8-749-101-26	TRANSISTOR MP1620-OPY-M (D615)		8-749-010-26 ☛	TRANSISTOR MP1620-OPY-M (D615)	

(RPC-94018)

9-959-464-91

Sony Corporation
Consumer A & V Products Company
Home A & V Products Div.

English
94L04103-1
Printed in Japan
© 1994. 12

Published by Home A & V Products Div.
Quality Engineering Dept.