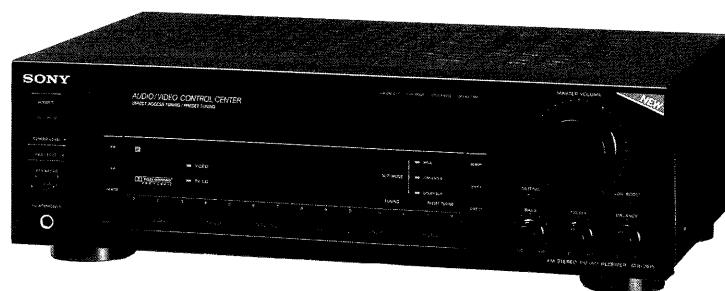


STR-D515/D615

SERVICE MANUAL



This photo is STR-D615.

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

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 μ V (mono) 38.3 dBf, 45 μ V (stereo)	—
Usable sensitivity	11.2 dBf, 2 μ V (IHF)	Loop antenna: 500 μ V (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 dB -2	—

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 $\frac{3}{8}$ x 11 $\frac{5}{8}$ 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)
4 Ω (AEP1, G), at 1 kHz less than 0.8% total harmonic distortion)
(FRONT)

STR-D615: 80W+80W (EXCEPT AEP1, G)

110W+110W (4 Ω)(AEP1, G)

STR-D515: 60W+60W (EXCEPT AEP1, G)

85W+85W (4 Ω)(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, 2.25 μ V (mono) 38.3 dBf, 22.5 μ V (stereo)	—
Usable sensitivity	11.2 dBf, 2 μ V (IHF)	Loop antenna: 500 μ V (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 dB -2	—

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 μ V (mono) 38.3 dBf, 45 μ V (stereo)	—
Usable sensitivity	11.2 dBf, 2 μ V (IHF)	Loop antenna: 500 μ V (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 dB -2	—

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 $\frac{3}{8}$ x 11 $\frac{5}{8}$ 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 2 V AC range are suitable. (See Fig. A)

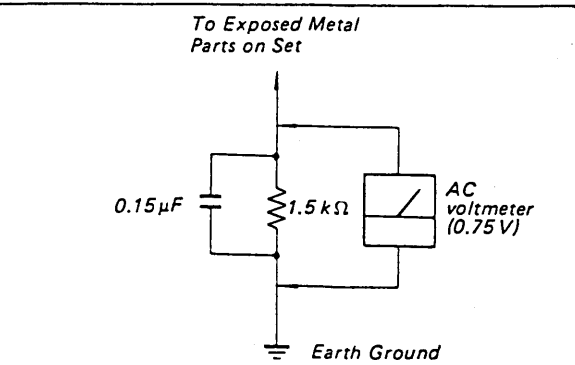
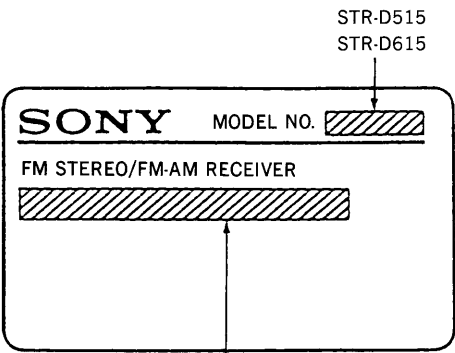


Fig. A. Using an AC voltmeter to check AC leakage.

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

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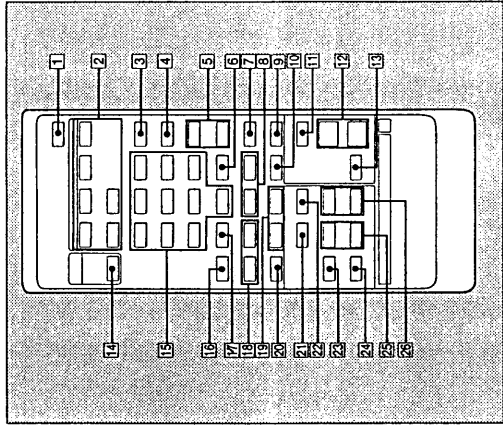
SECTION 1
GENERAL

This section is extracted from instruction manual.

Identifying the Parts and Controls

- 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.)

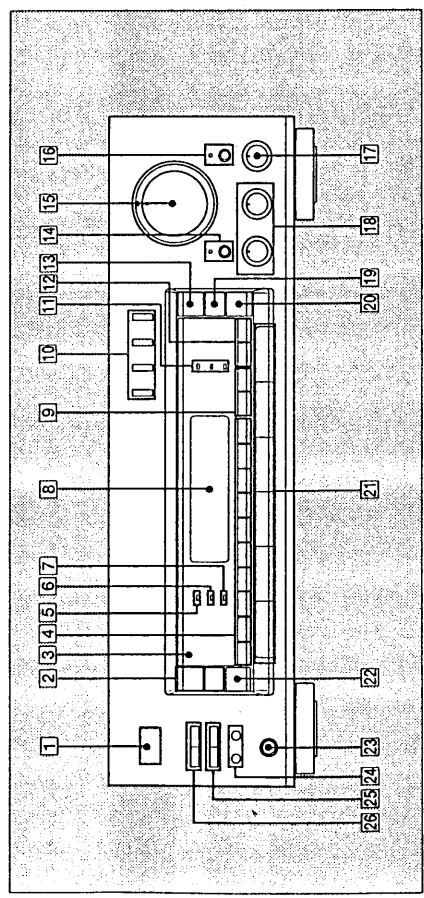
Remote Commander (For U.S.A. and Canadian models)



- 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.)

Identifying the Parts and Controls

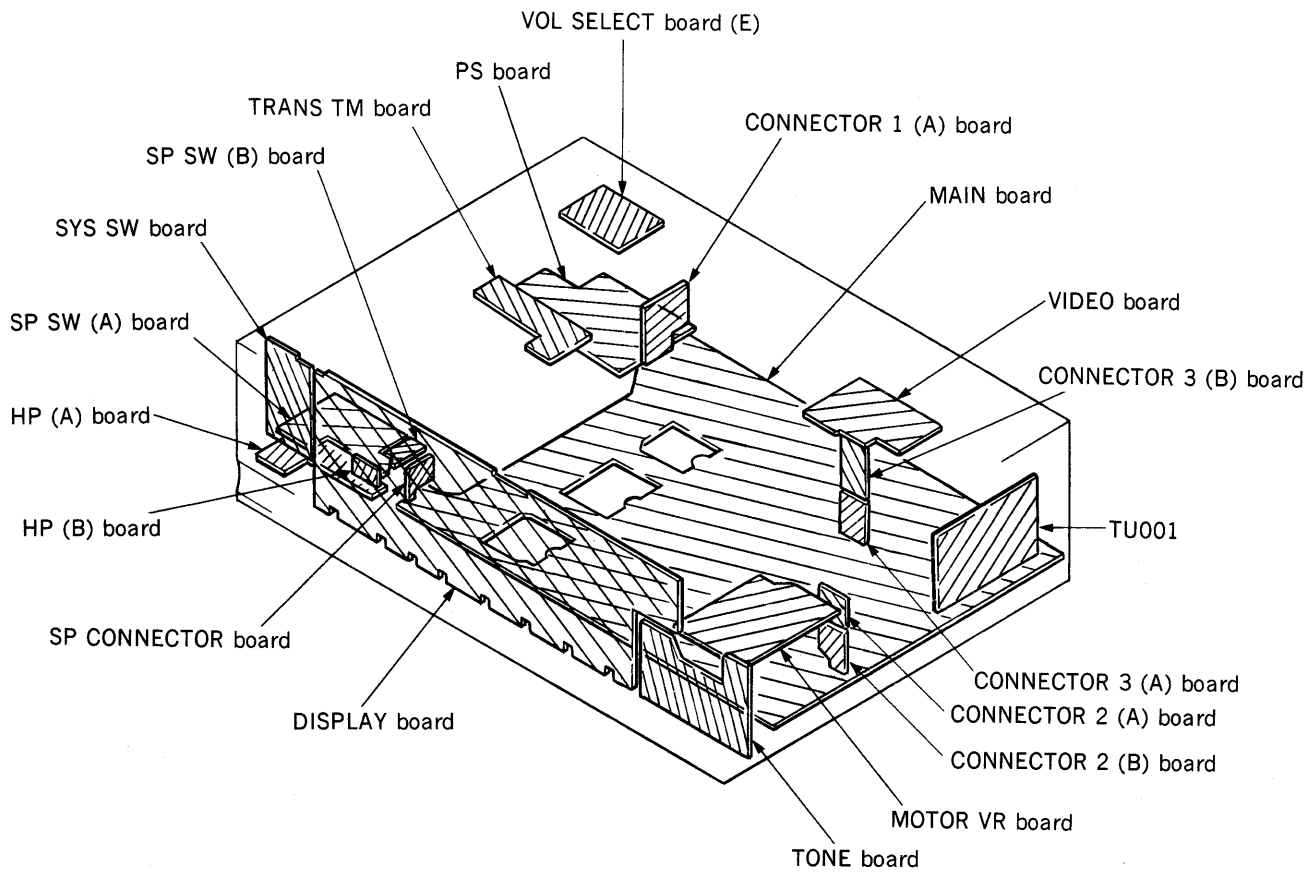
Front Panel



- 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 page 10.)
- 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.)

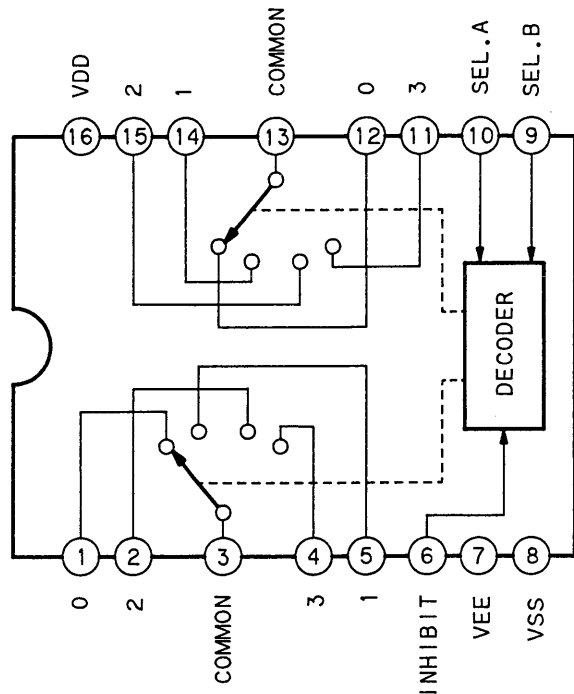
SECTION 2 DIAGRAMS

2-1. CIRCUIT BOARDS LOCATION

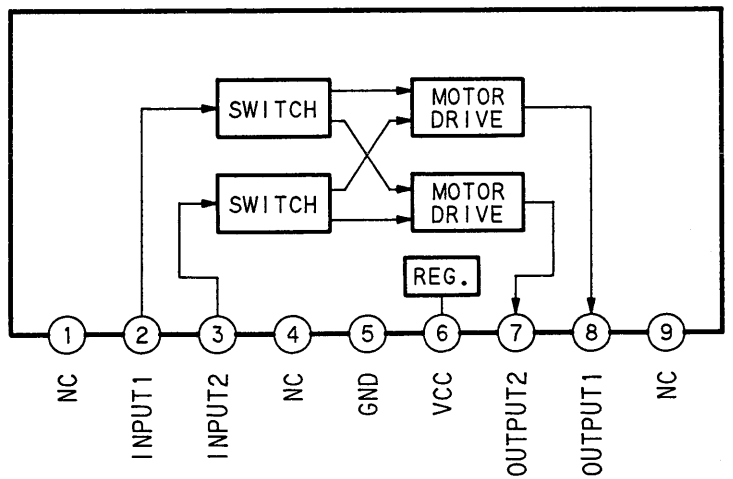


• IC Block Diagrams

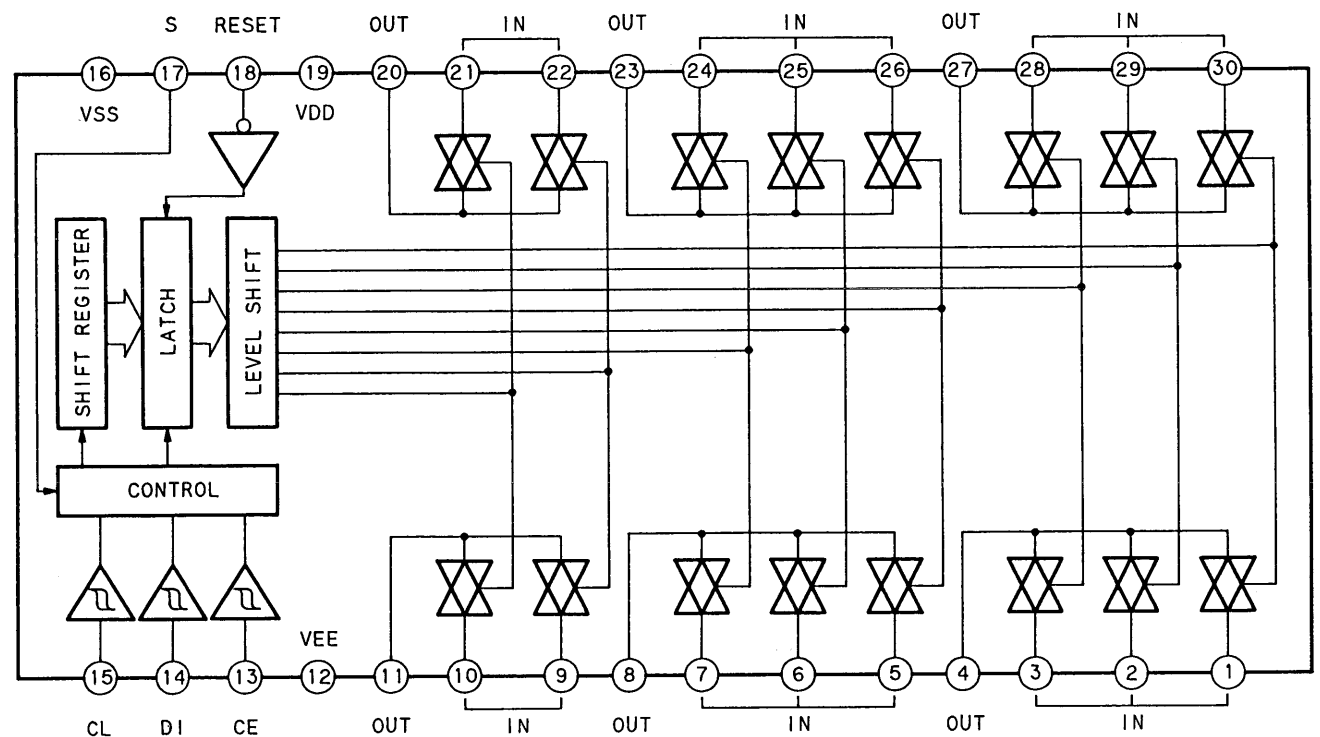
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IC203 BA6208

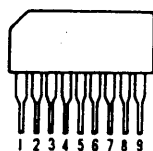


IC401 LC7822

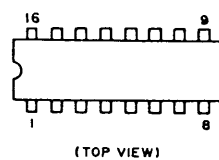


2-2. SEMICONDUCTOR LEAD LAYOUTS

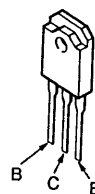
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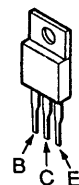
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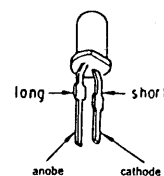
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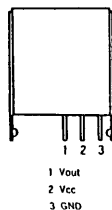
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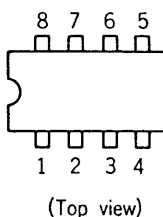
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SEL3810A-CD



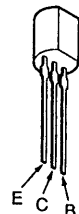
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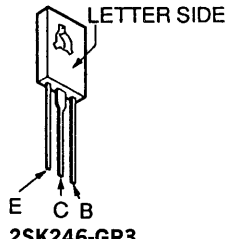
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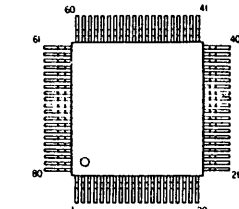
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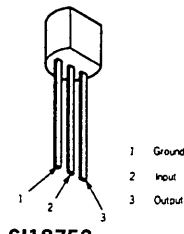
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HD6433723C12H



NJM79L12A



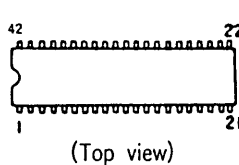
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2SC2958



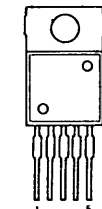
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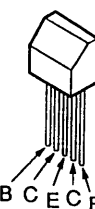
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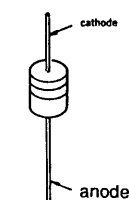
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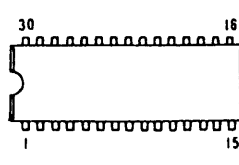
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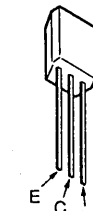
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UZL-24L
UZL-9H3
11ES2



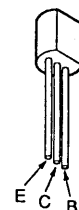
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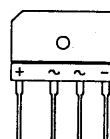
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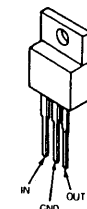
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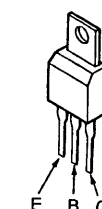
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RBV-602-01



LM78M12



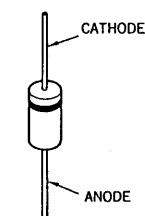
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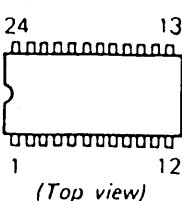
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2SD2439-OPY



1N4148M
1S1585



LV1010



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

STR-D515/D615

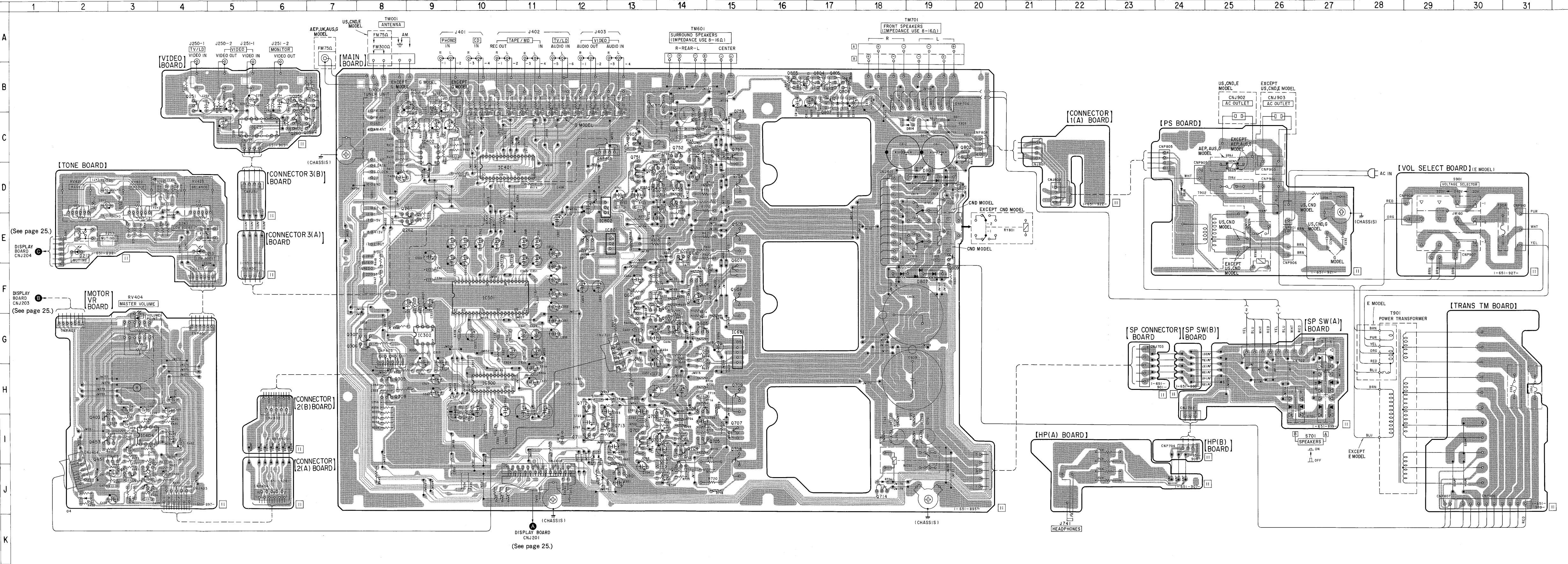
● Semiconductor Location

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		

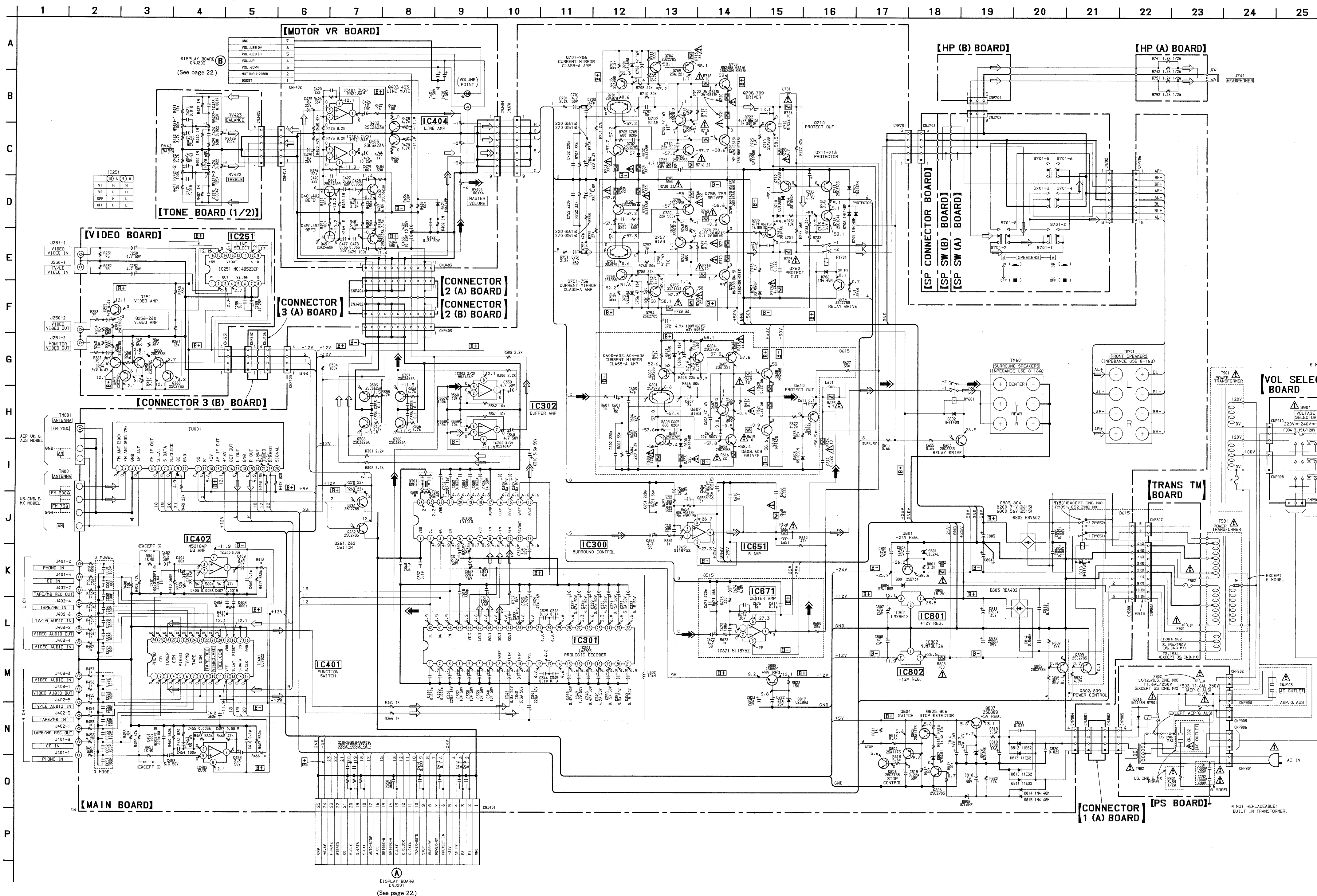
Note :

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

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



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



Note:

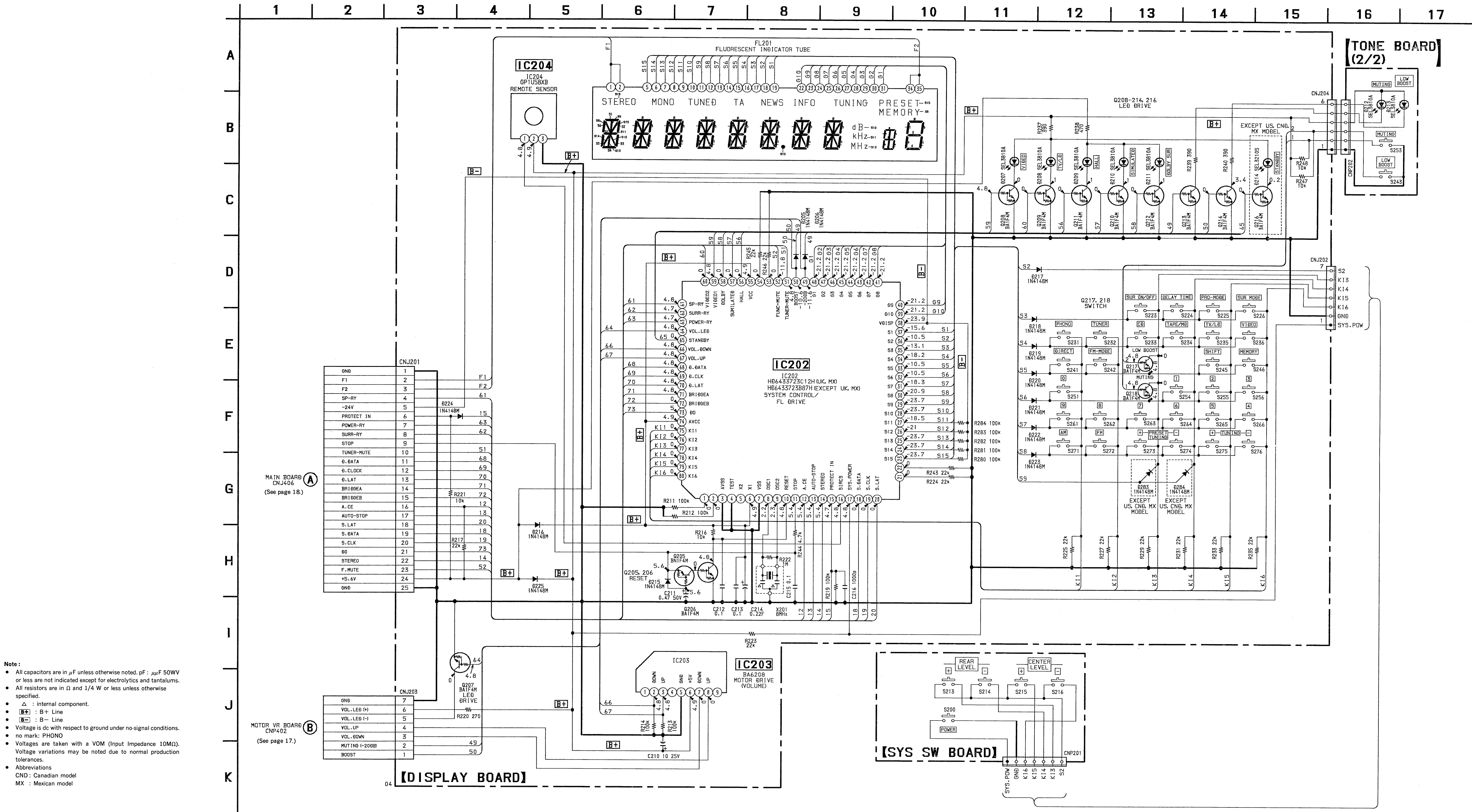
- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4 \text{ W}$ or less unless otherwise specified.
- Δ : internal component.

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

Note :
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+ Line
-  : 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 10MQ).
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.



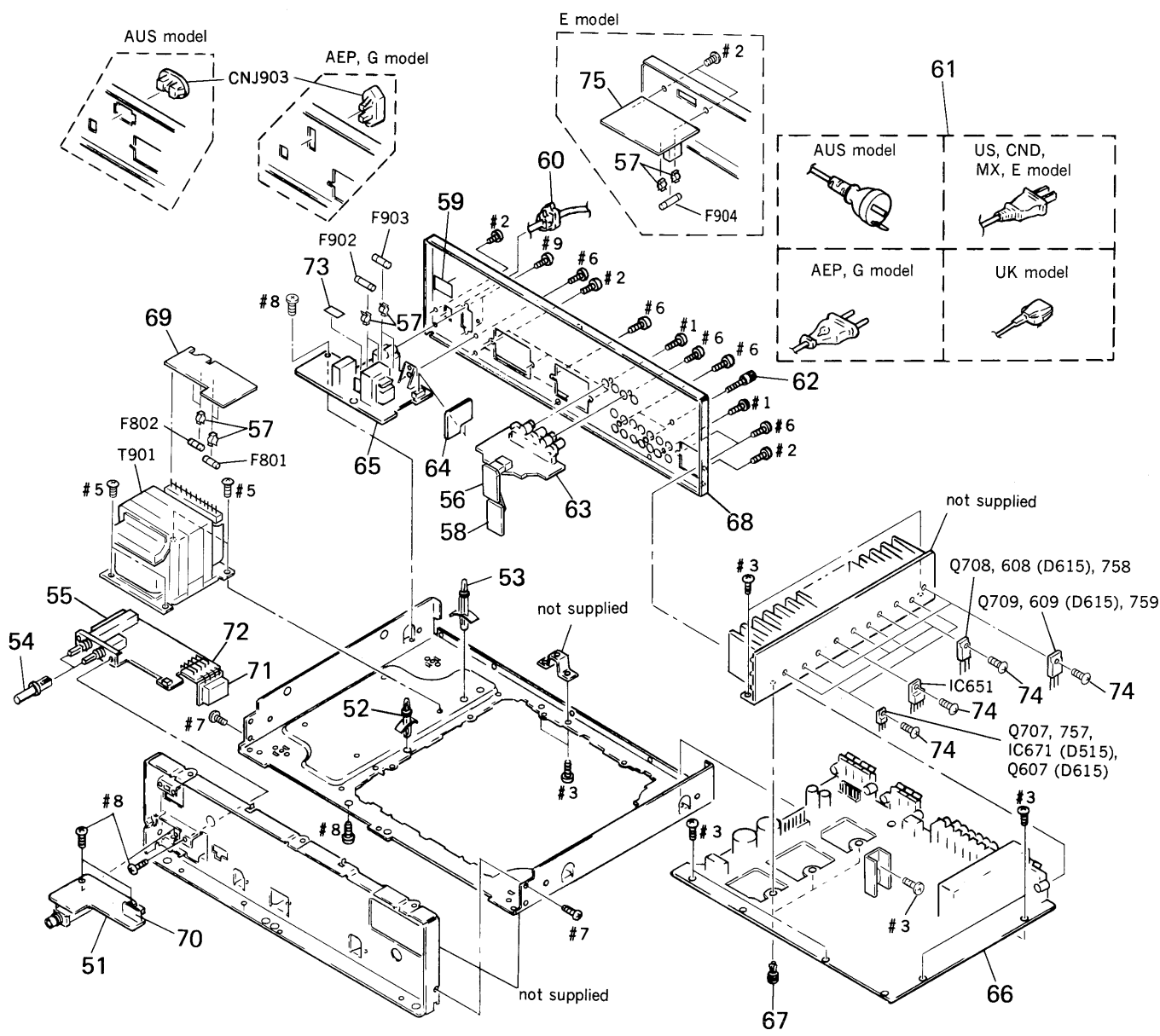
Ref. No.	Location
----------	----------

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

3-2. CHASSIS SECTION



STR-D515/D615

9-959-464-12

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

—44—

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Quality Engineering Dept.**

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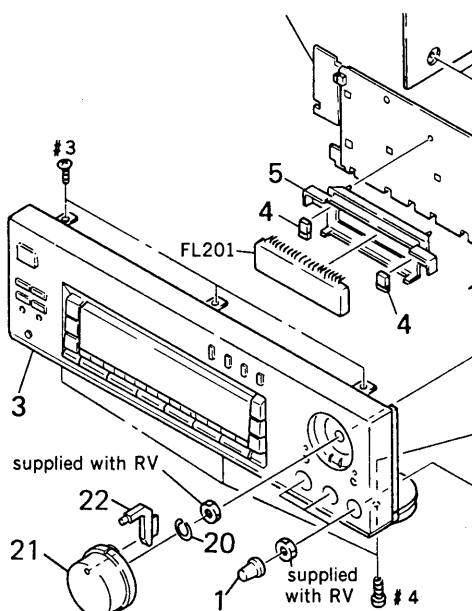
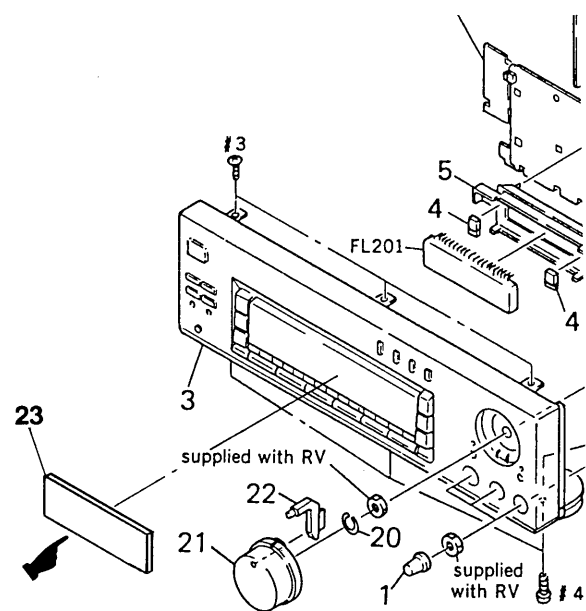
SONY[®] SERVICE MANUAL

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		

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.

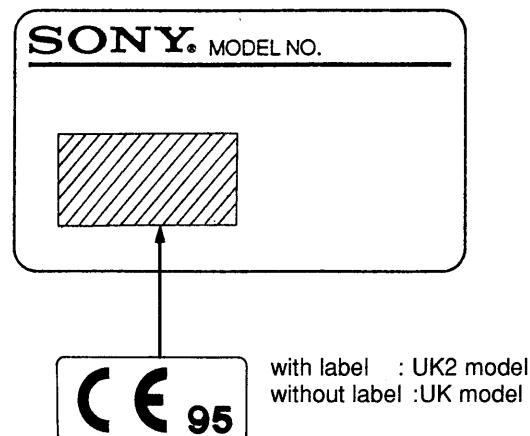
Subject : • MODEL ADDITION (STR-D515 : UK2 model)

(ENG-95020)

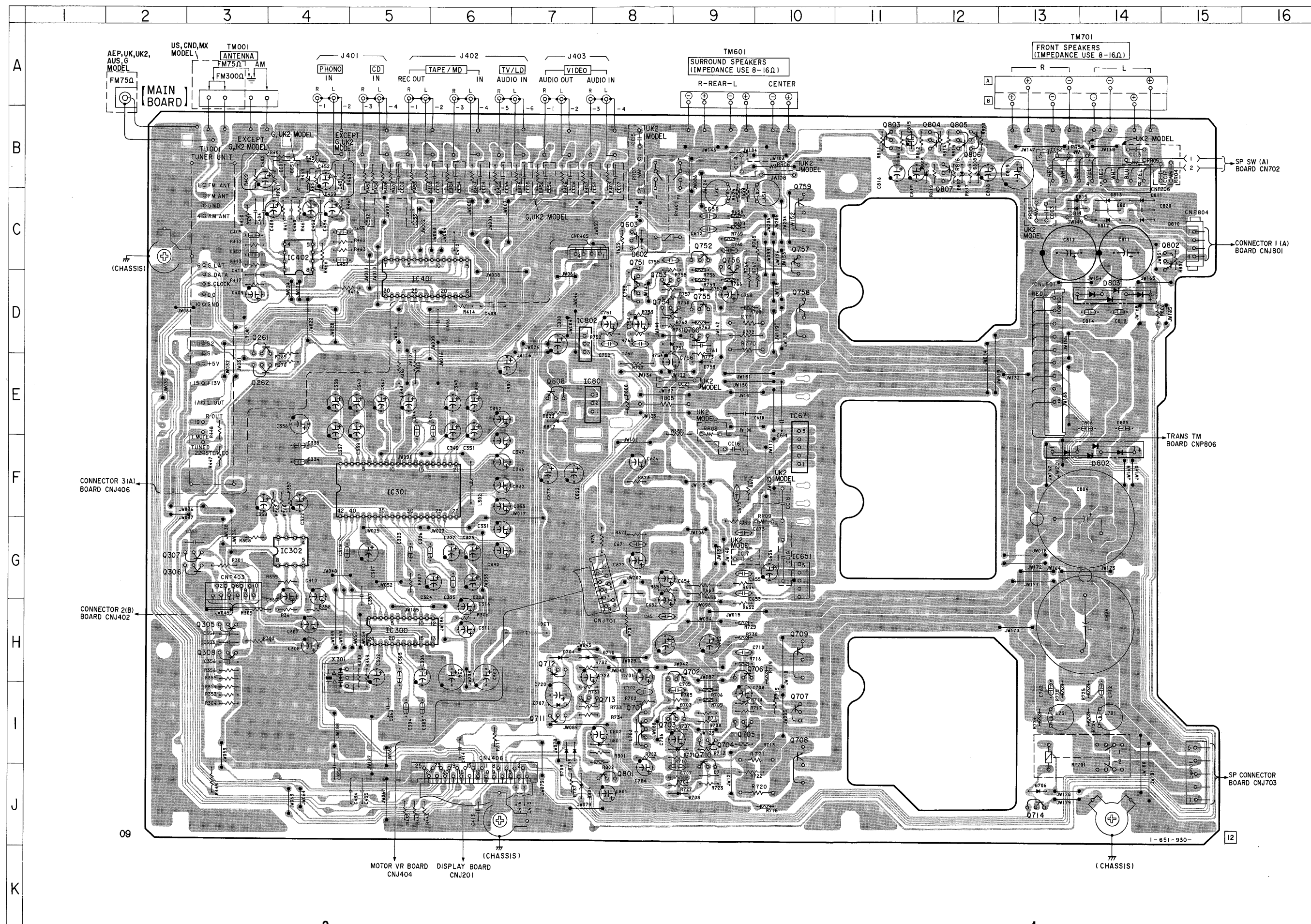
- The UK2 model is added to STR-D515. The following shows you how to identify between UK model and UK2 model.
- This service manual supplement-2 is for the UK2 model only. Regarding the information which is not contained in this service manual, Refer to the previous issued service manual for UK model.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

How to identify the UK2 model

— SPECIFICATION LABEL —



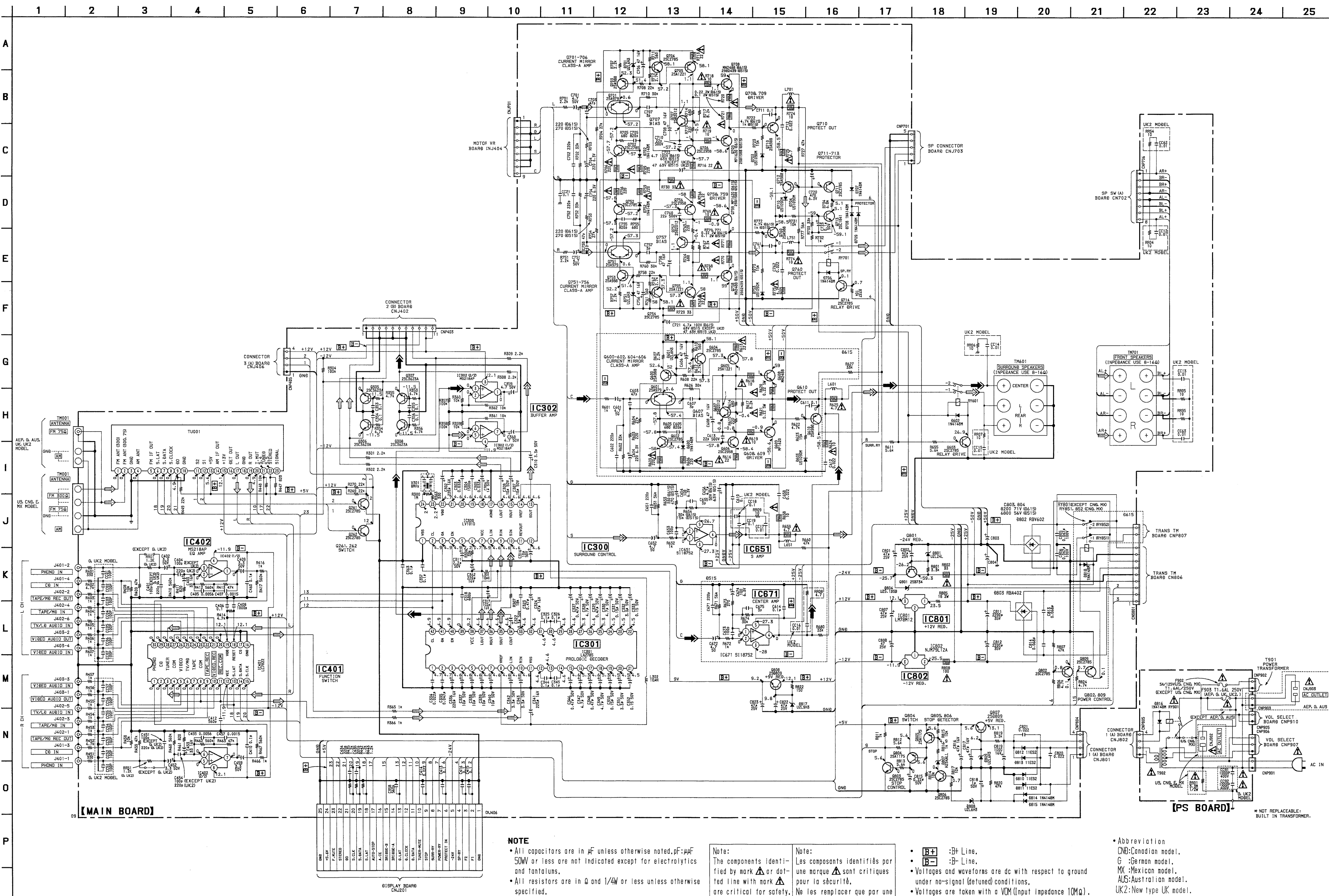
PRINTED WIRING BOARD — MAIN SECTION —



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
IC300	H-5	Q757	C-10
IC301	F-5	Q758	C-10
IC302	G-4	Q759	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
Q261	D-3	Q807	B-12
		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. μF : μF 50W or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/\text{W}$ or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

Note:

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

Note:

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

- : Δ Line.
- : Δ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (input impedance 10M Ω).
- 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

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)