

STR-DE825/V818

SERVICE MANUAL

Ver 1.1 2003.12



Photo : STR-DE825

US Model
Canadian Model
E Model
Australian Model
STR-DE825
Chinese Model
STR-V818

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated
100 watts per channel minimum RMS power, with no more than
0.09% total harmonic distortion from 250 milliwatts to rated output
(USA model only).

Amplifier section

POWER OUTPUT

Stereo mode (8 ohms 20 Hz - 20 kHz, THD 0.09%)
100 W + 100 W
Surround mode (8 ohms at 1 kHz, THD 0.8%)
Front: 100 W/ch
Center^{a)}: 100 W
Rear^{a)}: 100 W/ch

a) Depending on the sound field settings and the source, there may be no
sound output.

Dynamic power output

155 W + 155 W, 8 ohms
220 W + 220 W, 4 ohms

Harmonic distortion at rated output

Less than 0.09% (with sound field, tone, and bass
booster bypassed)

Frequency response

PHONO: RIAA
equalization curve
±0.5 dB
CD, TAPE, MD/DAT, TAPE/MD, DVD/LD, TV/DBS,
VIDEO 1 and VIDEO 2 :
10 Hz - 50 kHz +0.5/-2 dB (with sound field, tone,
and bass booster bypassed)

Inputs (Analog) PHONO:

Sensitivity: 2.5 mV
Impedance: 50 kilohms
S/N^{b)}: 75 dB (A, 2.5 mV^{c)})
CD, DVD/LD, TAPE, MD/DAT, TAPE/MD, TV/DBS,
VIDEO 1 and VIDEO 2 :
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N^{b)}: 82 dB (A, 150 mV^{c)})

b) 78' IHF

c) Weighted network, input level

Inputs (Digital) DVD/LD (coaxial):

Sensitivity: -
Impedance: 75 ohms
S/N: 100 dB (A, 20 kHz LPF)
DVD/LD, TV/DBS, MD/DAT (Optical):
Sensitivity: -
Impedance: -
S/N: 100 dB (A, 20 kHz LPF)

Outputs

TAPE, MD/DAT, TAPE/MD, (REC OUT); VIDEO 1, 2
(AUDIO OUT):
Voltage: 150 mV
Impedance: 10 kilohms
WOOFER:
Voltage: 2 V
Impedance: 1 kilohms
PHONES:
Accepts low - and high-impedance headphones

— Continued on next page —

FM STEREO FM-AM RECORDER

9-922-897-12
2003L16-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

BASS BOOST +6 dB at 70 Hz
Sampling Frequency 48 kHz
EQ BASS:
 100 Hz ~ 1.0 kHz (21 steps)
 MID:
 500 Hz ~ 5.0 kHz (21 steps)
 TREBLE:
 1.0 kHz ~ 10 kHz (21 steps)
 Gain levels:
 ±10 dB, 1 dB step

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals

75 ohms, unbalanced

Sensitivity Mono: 18.3 dBf, 4.5 µV

Stereo: 38.3 dBf, 45 µV

Usable sensitivity

11.2 dBf, 2 µV (IHF)

S/N Mono: 76 dB

Stereo: 70 dB

Harmonic distortion at 1 kHz

Mono: 0.3 %

Stereo: 0.5 %

Separation 45 dB at 1 kHz

Frequency response

30 Hz - 15 kHz +0.5/-2 dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range With 10-kHz tuning scale:

530 - 1710 kHz^① (US, Canadian)

530 - 1610 kHz^① (Except US, Canadian)

With 9-kHz tuning scale:

531 - 1710 kHz^① (US, Canadian)

531 - 1602 kHz^① (Except US, Canadian)

Antenna Loop antenna

Usable sensitivity

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

S/N 54 dB (at 50 mV/m)

Harmonic distortion

0.5% (50 mV/m, 400 kHz)

Selectivity At 9 kHz: 35 dB

At 10 kHz: 40 dB

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

Video section

Input 1 Vp-p 75 ohms

Outputs 1 Vp-p 75 ohms

General

System

Tuner section:

PLL quartz-locked digital synthesizer system

Preamplifier section:

Low- noise NF type equalizer

Power amplifier section:

Pure-complementary SEPP

Power requirements

US and Canadian models:

120 V AC, 60 Hz

Australian model:

240 V AC, 50 Hz

Singapore, Chinese, Malaysia models:

220 - 230 V AC, 50/60 Hz

Power consumption

US, Singapore, Chinese, Malaysia: 290 W

Canadian: 480 VA

Australian model: 300W

AC outlets

2 switched, total 100 W

Dimensions

430 × 355 × 157.5 mm

(17 × 14 × 6¹/₄ in.)

including projecting parts and controls

Mass (Approx.)

10.5 kg (23 lb 3 oz)

Supplied accessories

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander RM-LJ301 (remote) (1)
- LR6 (size-AA) alkaline batteries (3)
- Audio/video/control S connecting cord (1)
- Control S connecting cord (1)

Design and specifications are subject to change without notice.

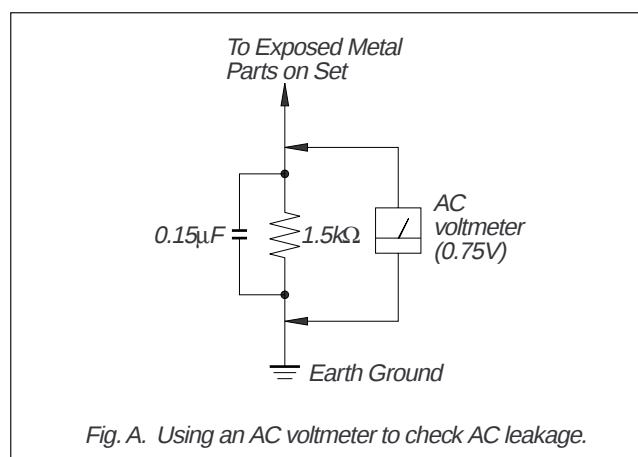
SAFETY CHECK-OUT

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

LEAKAGE

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

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING!!

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

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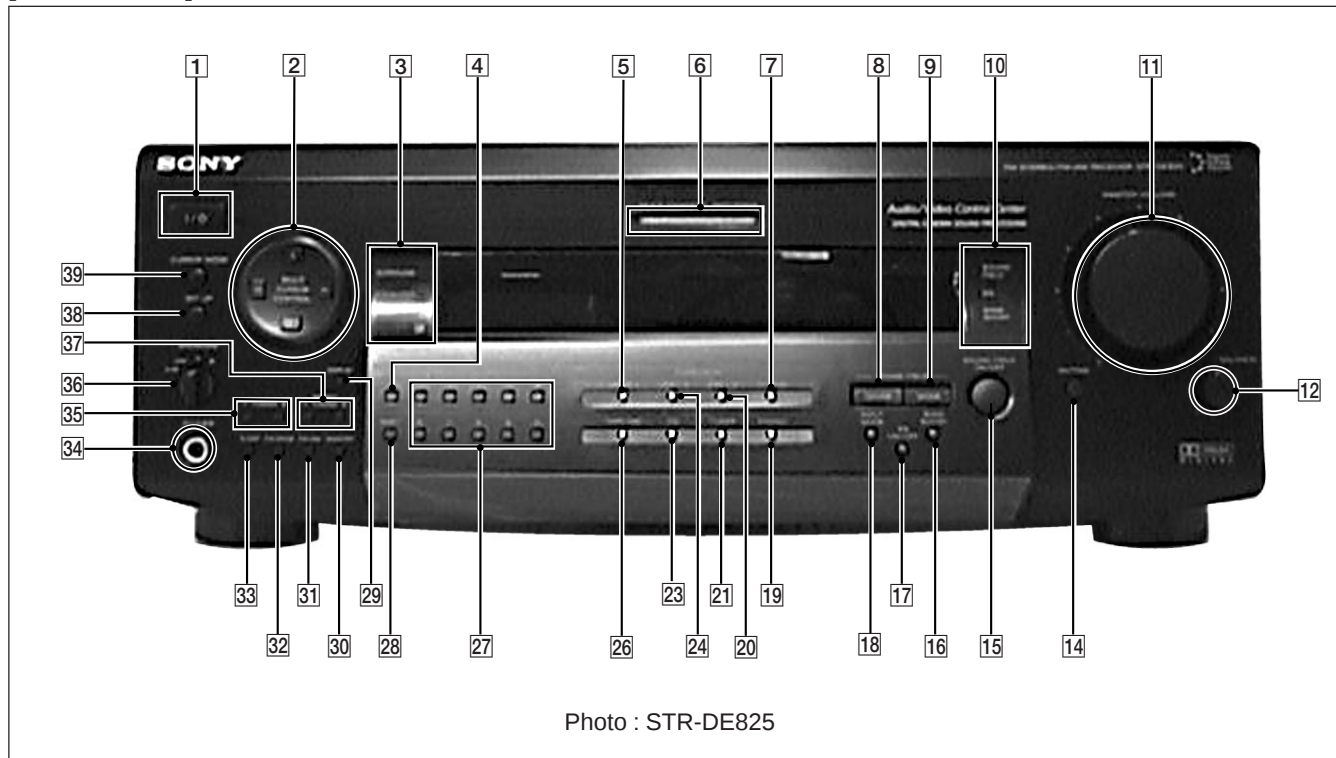
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ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

SECTION 1 GENERAL

LOCATION AND FUNCTION OF CONTROLS [FRONT PANEL]



- | | |
|--|--------------------------------------|
| 1 I/⏻ (POWER) button | 20 DVD/LD |
| 2 MULTI CURSOR CONTROL | 21 TUNER button |
| 3 SURROUND, EQUALIZER, INDEX indicators | 23 CD button |
| 4 DIRECT TUNING button | 24 VIDEO 2 button |
| 5 VIDEO 1 button | 26 TAPE/MD button |
| 6 MULTI CHANNEL DECODING indicator | 27 Numeric buttons |
| 7 TV/DBS button (DE825) | 28 SHIFT button |
| 7 TV/LD button (V818) | 29 DISPLAY button |
| 8 SOUND FIELD GENRE button | 30 MEMORY button |
| 9 SOUND FIELD MODE button | 31 FM/AM button |
| 10 SOUND FIELD, EQ, BASS BOOST indicators | 32 FM MODE button |
| 11 MASTER VOLUME control | 33 SLEEP button |
| 12 BALANCE control | 34 PHONES jack |
| 14 MUTING button | 35 TUNING +, – buttons |
| 15 SOUND FIELD ON/OFF button | 36 SPEAKERS A, B switche |
| 16 BASS BOOST button | 37 PRESET TUNING +, – buttons |
| 17 EQ ON/OFF button | 38 SET UP button |
| 18 INPUT MODE button | 39 CURSOR MODE button |
| 19 PHONO button | |

[REAR PANEL]

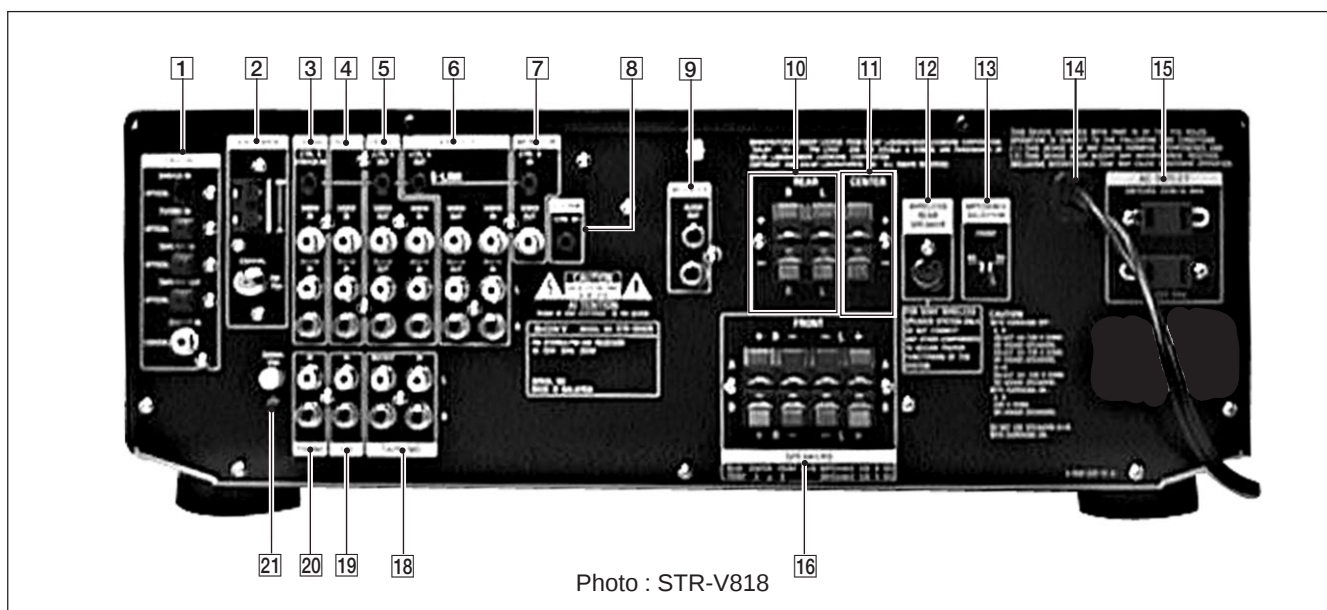


Photo : STR-V818

- | | | | |
|----|-----------------|----|-----------------------|
| 1 | DIGITAL | 11 | SPEAKER (CENTER) |
| 2 | ANTENNA (FM/AM) | 12 | WIRELESS REAR SPEAKER |
| 3 | TV/LD | 13 | IMPEDANCE SELECTOR |
| 4 | DVD/LD (DE825) | 14 | AC power cord |
| 4 | DVD (V818) | 15 | AC OUTLET |
| 5 | VIDEO 2 | 16 | FRONT SPEAKERS (A/B) |
| 6 | VIDEO 1 | 18 | SPEAKERS (FRONT) |
| 7 | MONITOR | 19 | CD |
| 8 | S-LINK | 20 | PHONO |
| 9 | WOOFER | 21 | ⏏ SIGNAL GND |
| 10 | SPEAKERS (REAR) | | |

SECTION 2

TEST MODE

FLUORESCENT INDICATOR TUBE TEST MODE

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

FACTORY SET MODE

- * All preset contents are reset to the default setting.
- * Procedure:
While depressing the SET UP and the SOUND FIELD ON/OFF buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message FACTORY SET appears and the present contents are reset to the default values.

ALL CLEAR MODE

- * All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
- * Procedure:
While depressing the DISPLAY and the SOUND FIELD ON/OFF buttons simultaneously, press the power [I/⏻] button to turn on the main power. The machine enters the DEMO mode. DEMO mode: Wait a while, then the demonstration starts. If the power [I/⏻] button is pressed often the demonstration has started, the power is turned off, and the demonstration resumes if the power [I/⏻] button is pressed again.
ALL CLEAR mode; If the power [I/⏻] button is pressed often the machine enters the DEMO mode, but before the demonstration starts, the display is turned off. Press [I/⏻] again. No response is returned. The press [I/⏻] again. The preset data is cleared and the machine enters the normal power-on state.

SOUND FIELD CLEAR MODE

- * The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
- * Procedure:
While depressing the SOUND FIELD ON/OFF button, press the power [I/⏻] button to turn on the main power. The message SURR CLEAR! appears and initialization is performed.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

- * Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
- * Procedure:
Set the FUNCTION to AM. Turn off the main power.
While depressing the TUNING+ button or the PRESET TUNING + button, press the power [I/⏻] button to turn on the main power. Either the message AM 9kHz STEP or AM 10kHz STEP appears. Select the desired step.

DSP TEST MODE

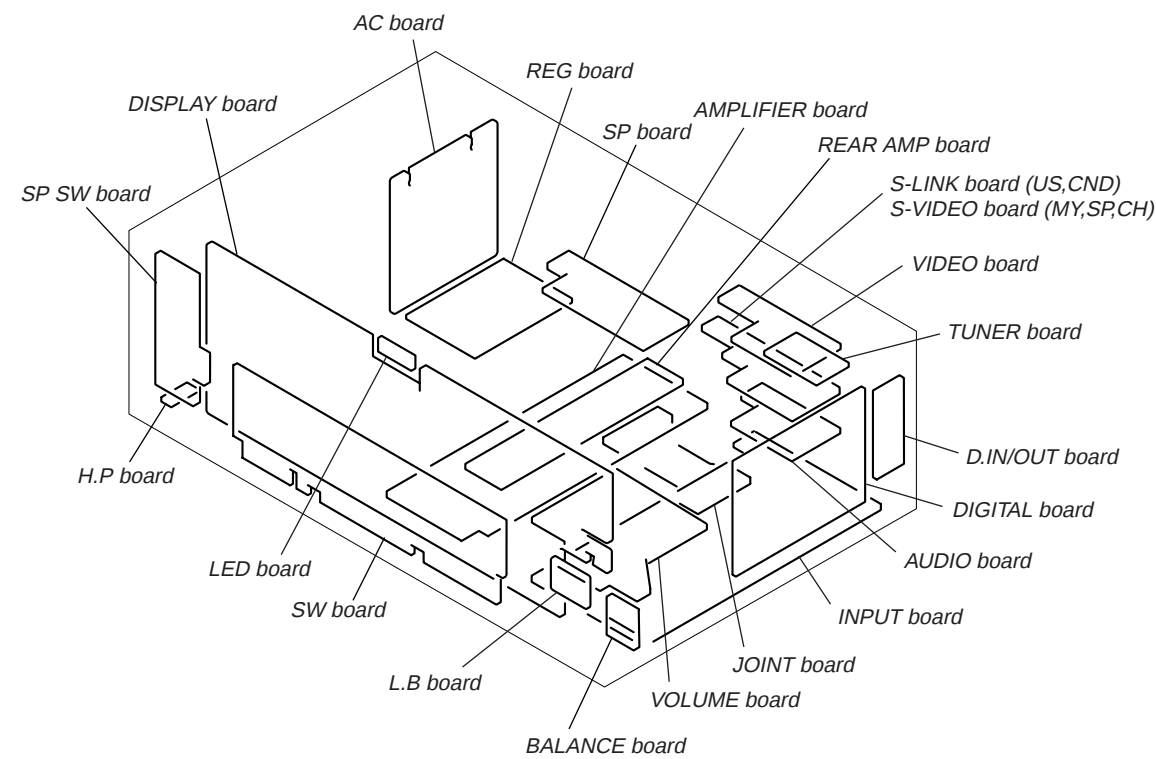
- * Procedure:
While depressing the SET UP and the SOUND FIELD GENRE buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message DSP NO ERROR or DSP ERROR.

DTS MODE

- * Procedure:
While depressing the MULTI CURSOR CONTROL UP [^] and DOWN [v] buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message ATTENUATE OFF or ATTENUATE ON.

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



- Abbreviation
CND :Canadian
MY :Malaysia
SP :Singapore
CH :Chinese
AUS :Australian

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

For schematic diagrams.

Note:

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

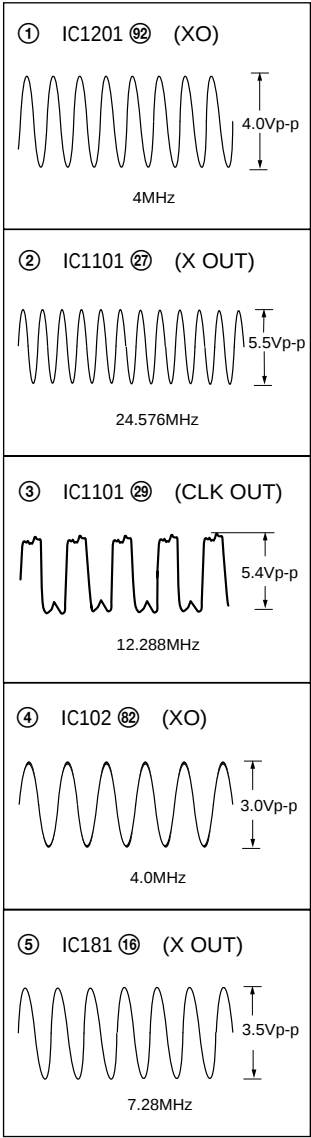
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground
under no-signal (detuned) conditions.
No mark : FM
- Voltages are taken with a VOM (Input impedance 10 $\text{M}\Omega$).
Voltage variations may be noted due to normal production
tolerances.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

For printed wiring boards.

Note:

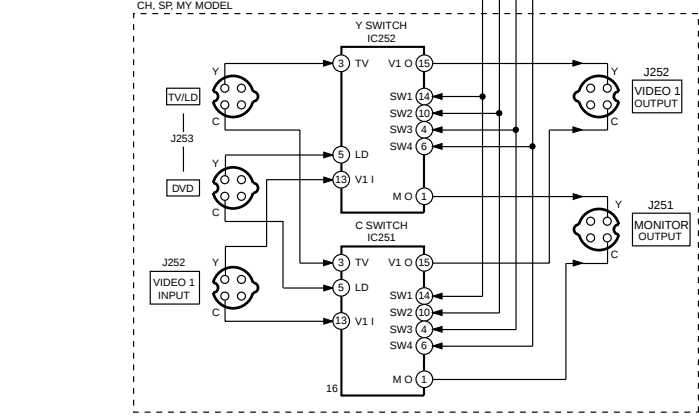
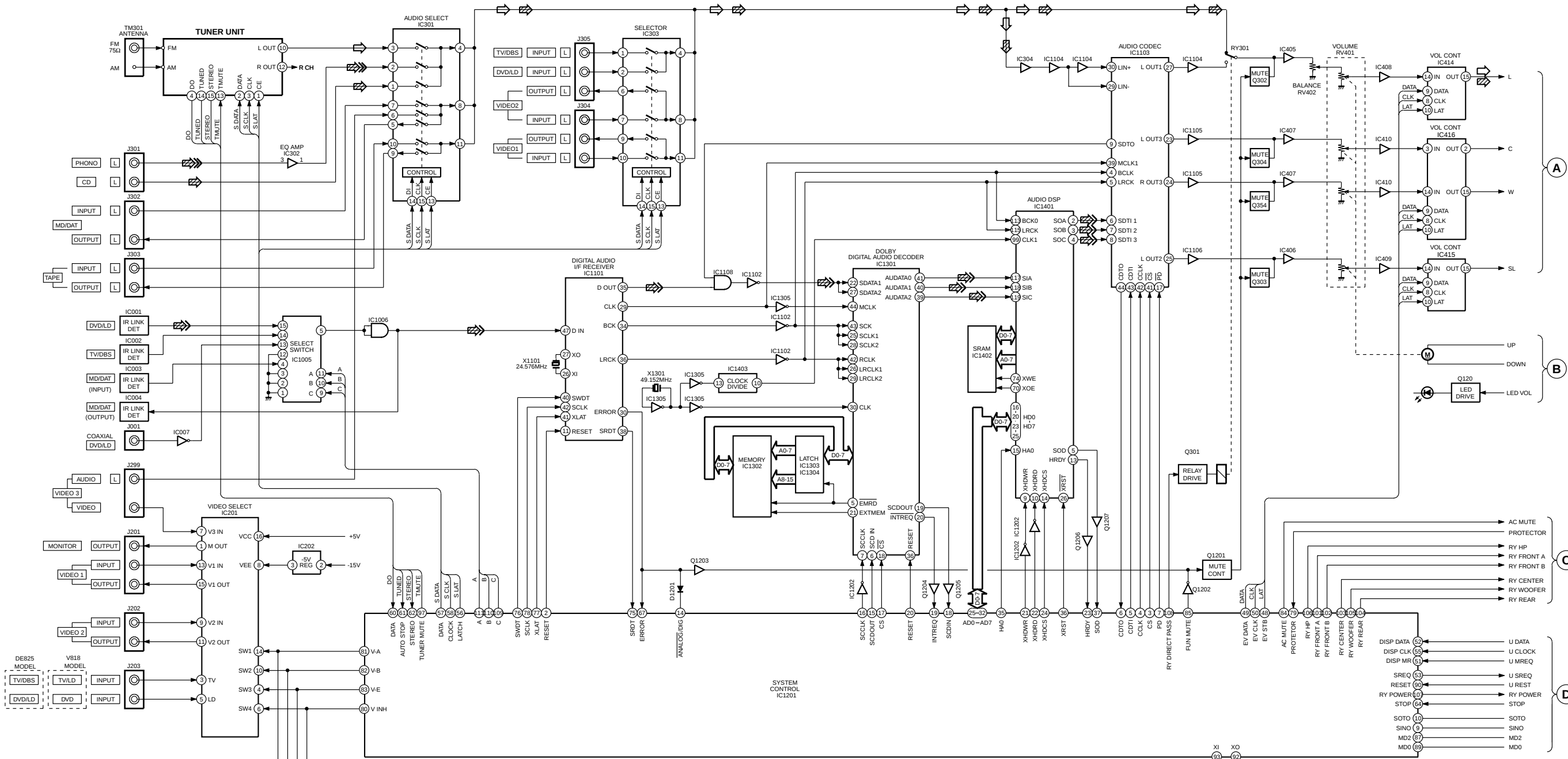
-  : parts extracted from the component side.
-  : Through hole.
-  : Pattern from the side which enables seeing.

• Waveform



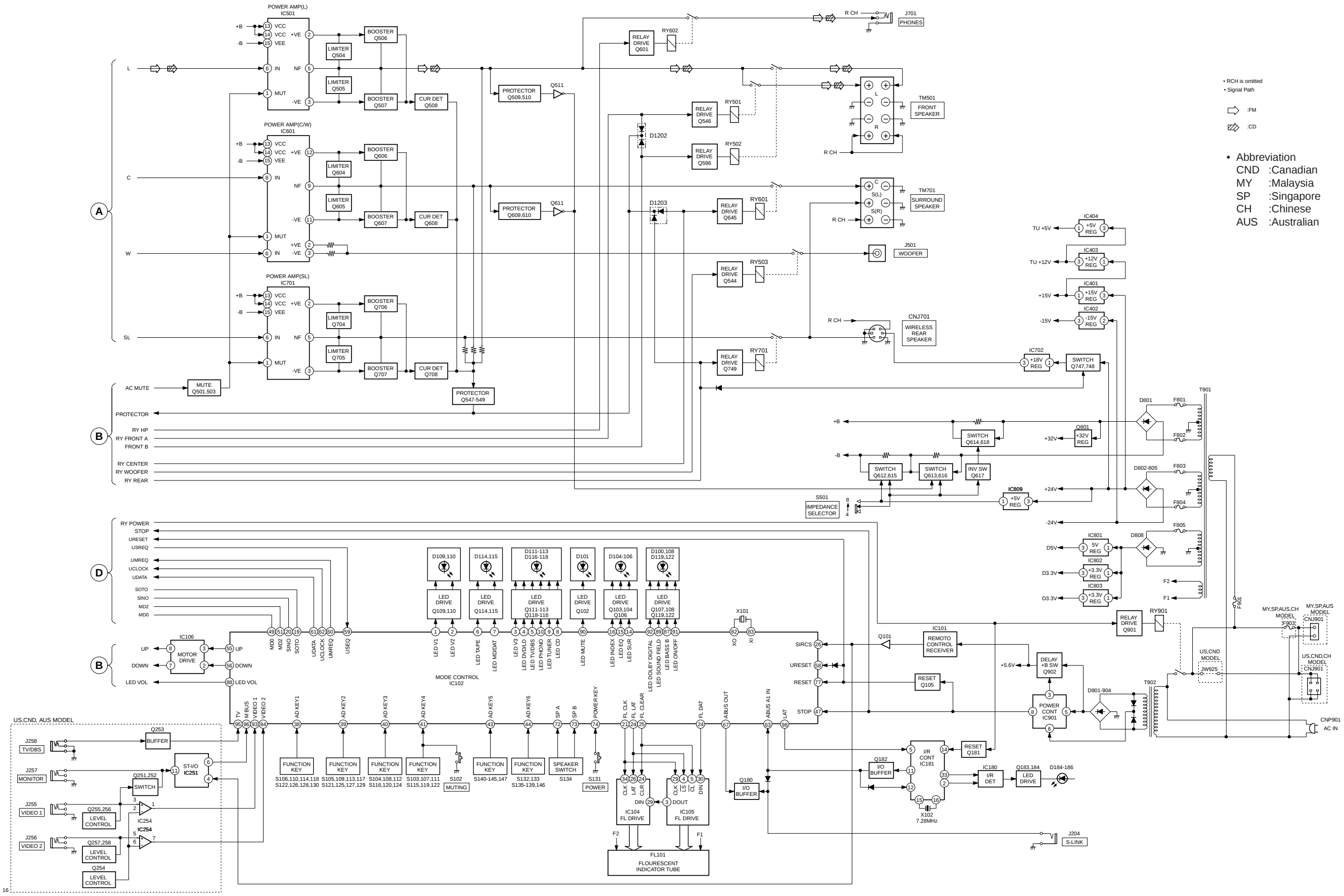
STR-DE825/V818

3-2. BLOCK DIAGRAM – MAIN SECTION –



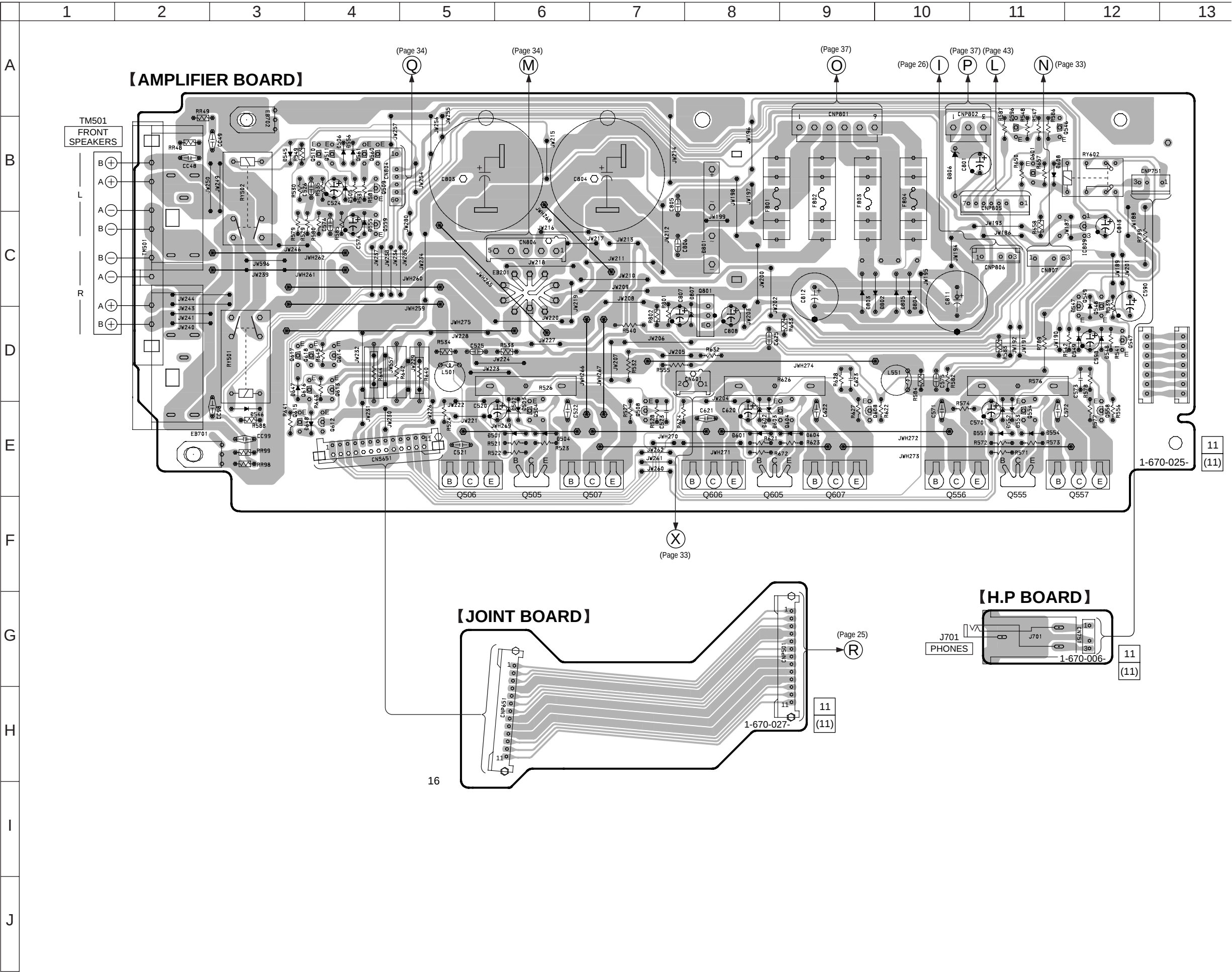
- RCH is omitted
- Signal Path
- : FM
- ▨ : PHONO
- ▩ : CD
- ▧ : DIGITAL
- Abbreviation
- CND : Canadian
- EA : Saudi Arabia
- MY : Malaysia
- SP : Singapore
- CH : Chinese
- AUS : Australian

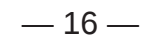
3-3. BLOCK DIAGRAM – POWER SECTION –

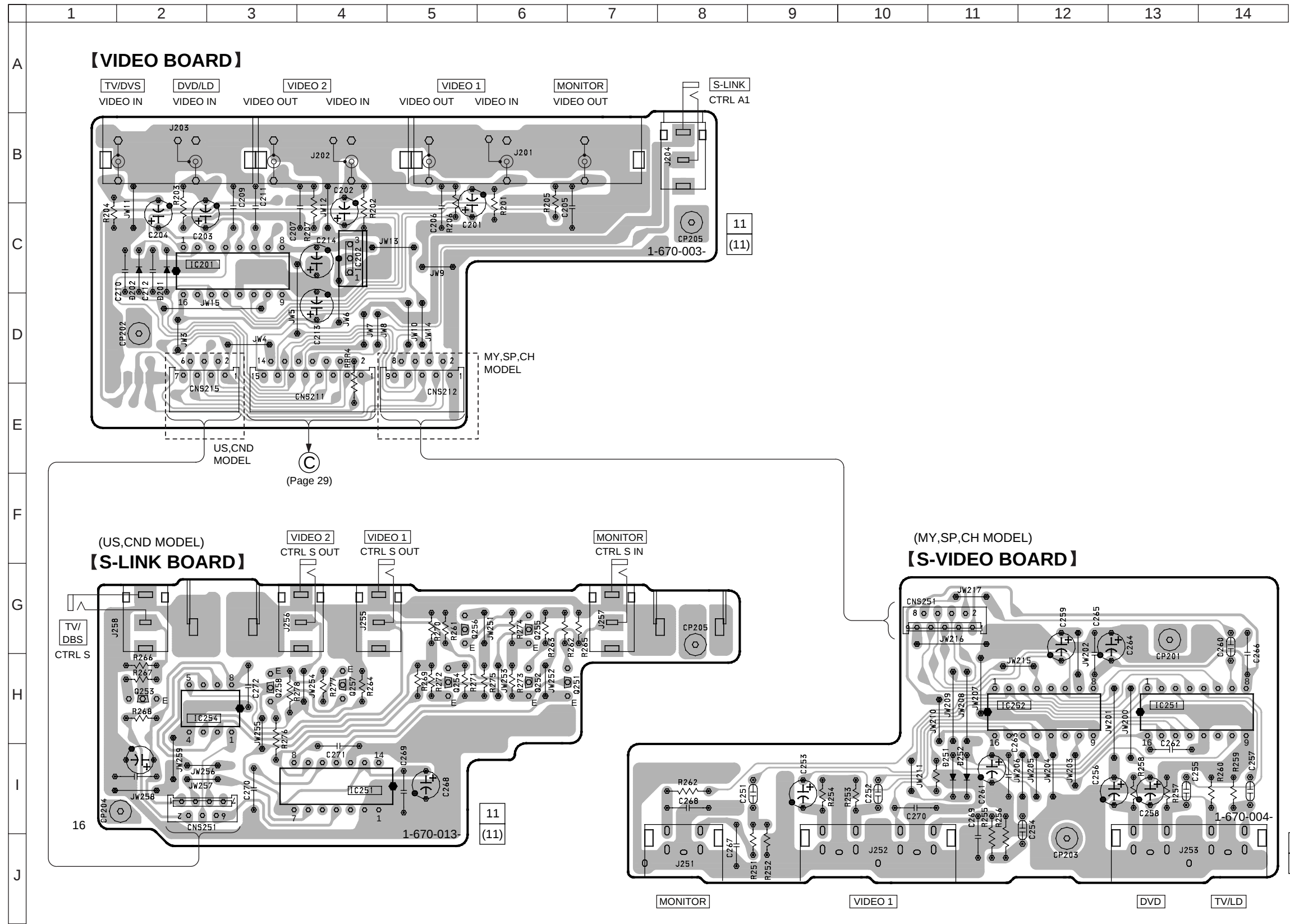


• Semiconductor Location

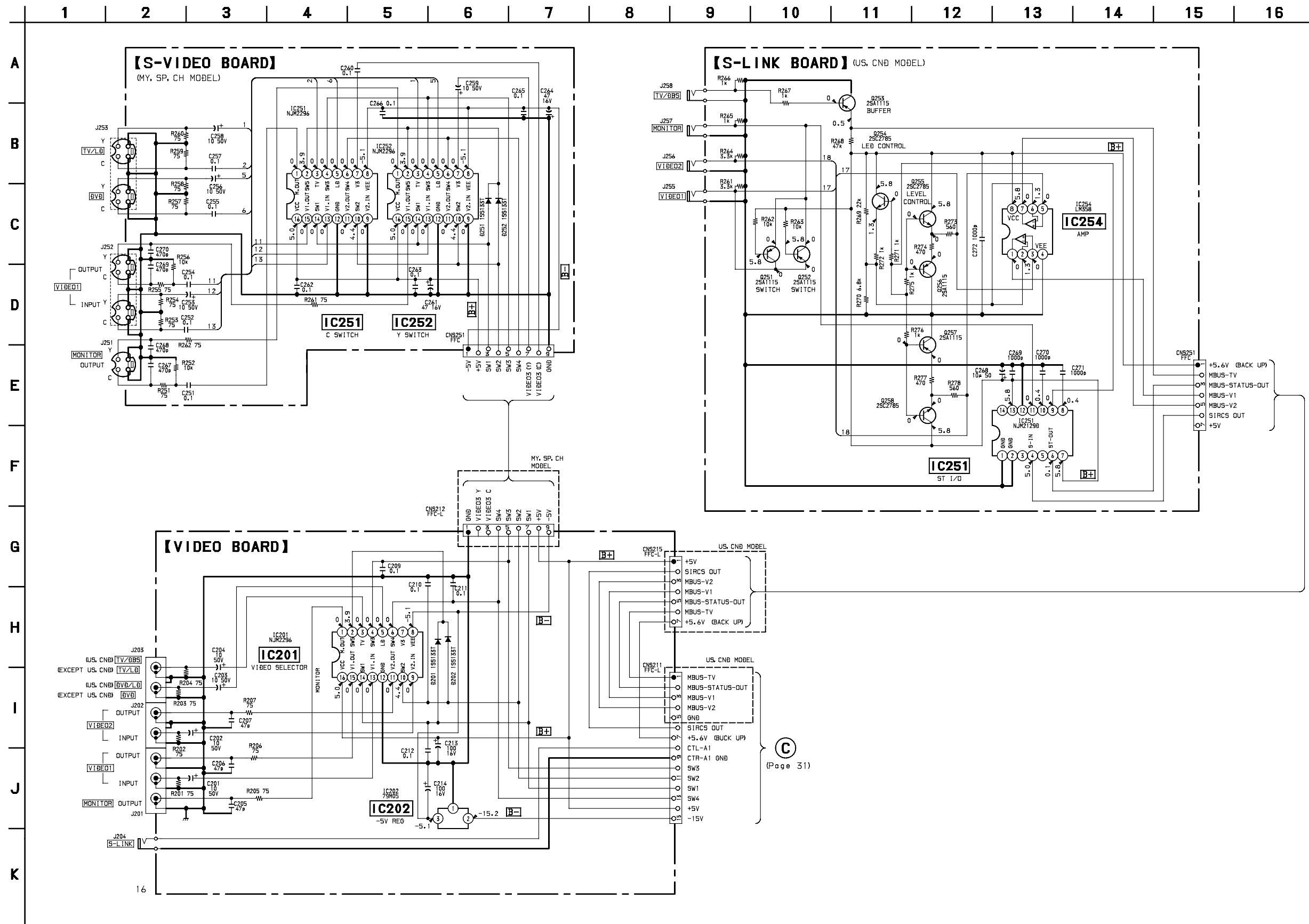
Ref. No.	Location
D501	E-6
D502	E-6
D503	E-6
D504	E-6
D505	B-4
D506	B-4
D545	B-3
D546	E-3
D547	D-12
D548	D-12
D549	D-12
D551	E-11
D552	E-11
D553	E-11
D554	E-11
D555	C-4
D556	B-4
D601	E-8
D602	E-8
D603	E-8
D604	E-9
D608	C-11
D647	D-3
D648	E-4
D801	C-8
D802	D-10
D803	C-9
D804	D-10
D805	D-10
D806	B-10
D807	D-8
IC809	C-12
Q504	E-6
Q505	E-6
Q506	E-5
Q507	F-7
Q508	E-7
Q509	B-4
Q510	B-4
Q511	B-4
Q546	B-11
Q547	D-12
Q548	D-12
Q549	D-12
Q554	E-11
Q555	E-11
Q556	E-10
Q557	E-12
Q558	E-12
Q559	C-4
Q560	B-4
Q561	B-4
Q596	B-11
Q601	B-11
Q604	E-9
Q605	E-8
Q606	E-8
Q607	E-9
Q608	E-9
Q612	E-4
Q613	D-4
Q614	D-4
Q615	E-3
Q616	D-3
Q617	D-3
Q618	D-3
Q801	D-8



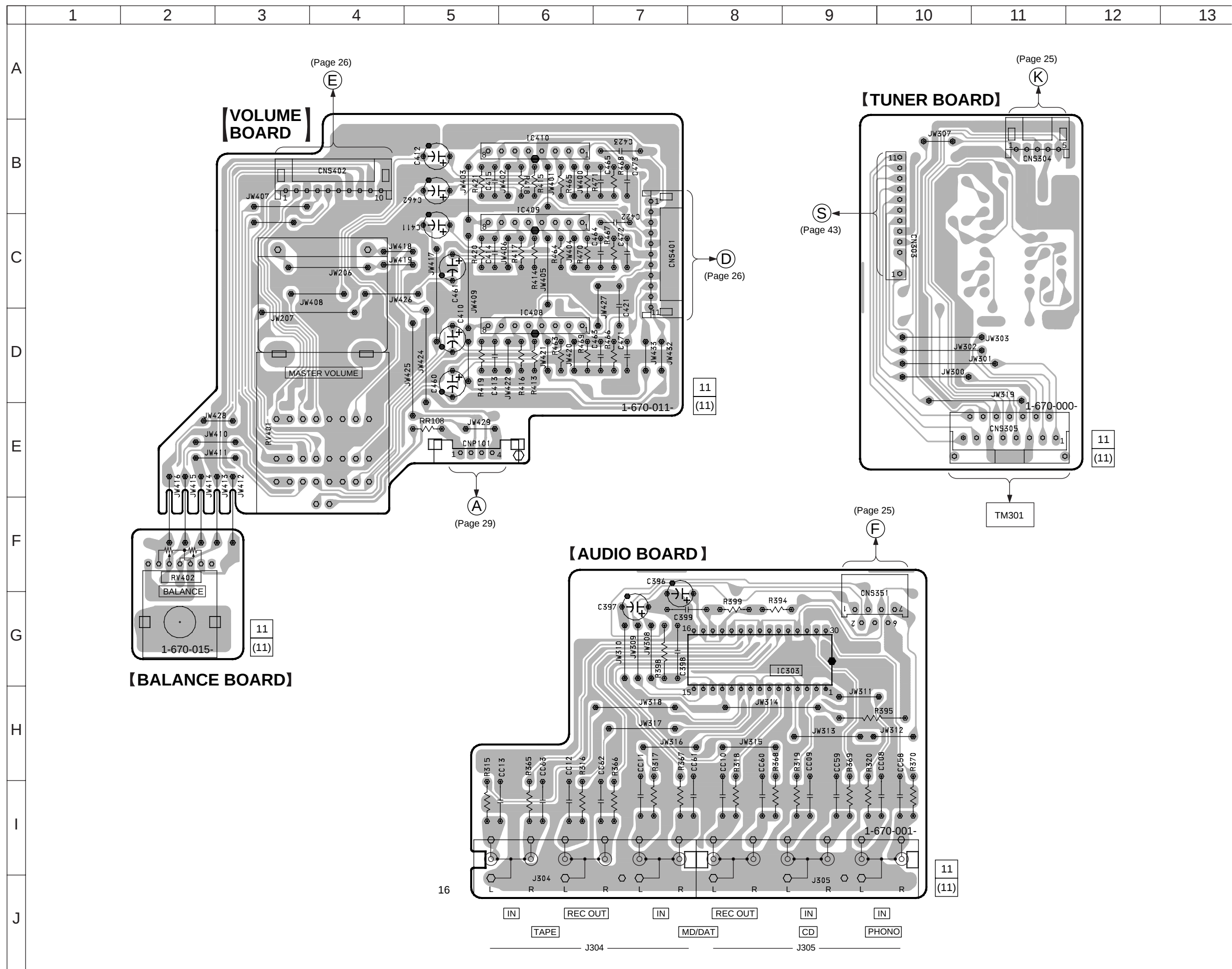


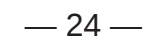


3-7. SCHEMATIC DIAGRAM — VIDEO SECTION — • See pages 60 for IC Block Diagrams.



Ref. No.	Location
IC303	G-8
IC408	D-6
IC409	C-6
IC410	B-6

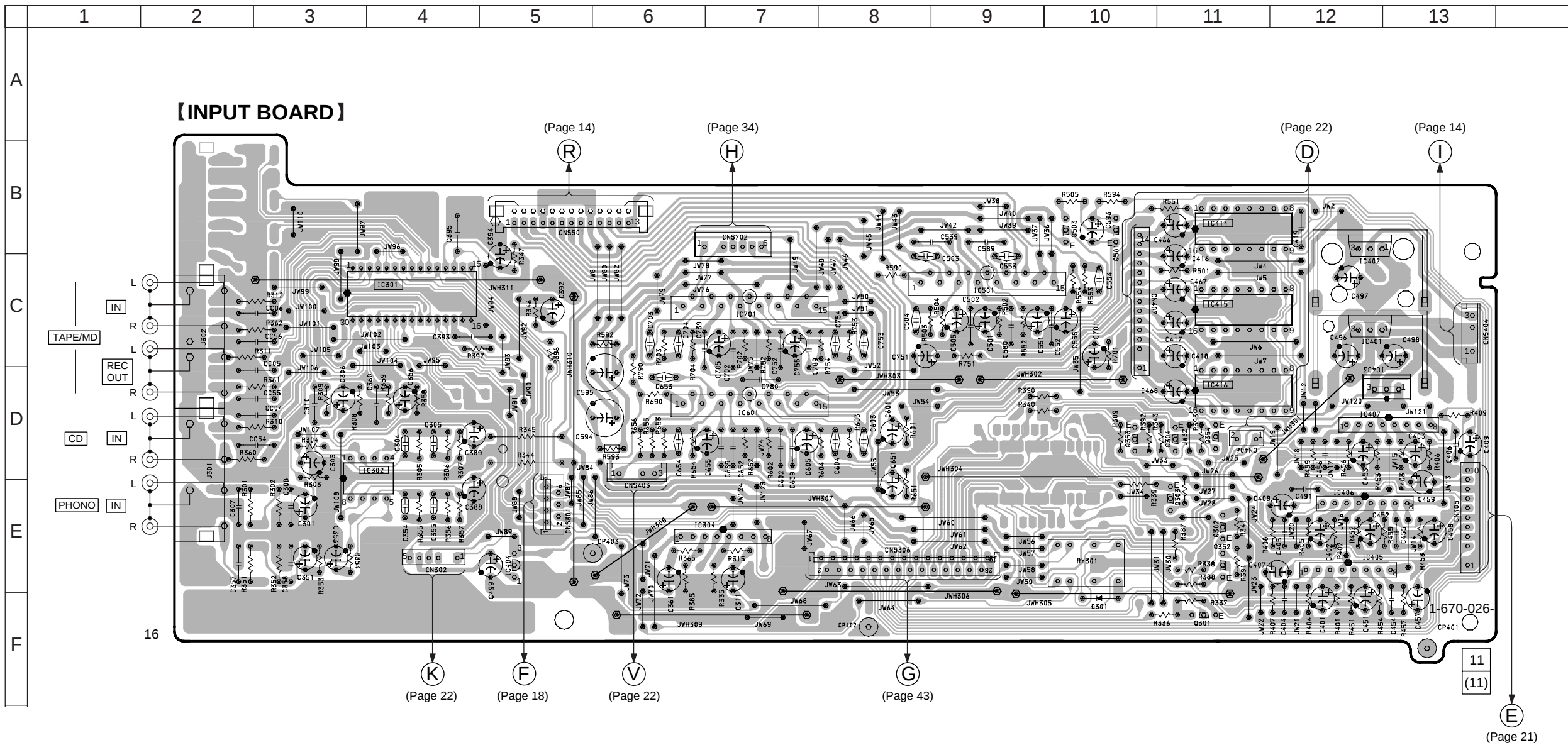




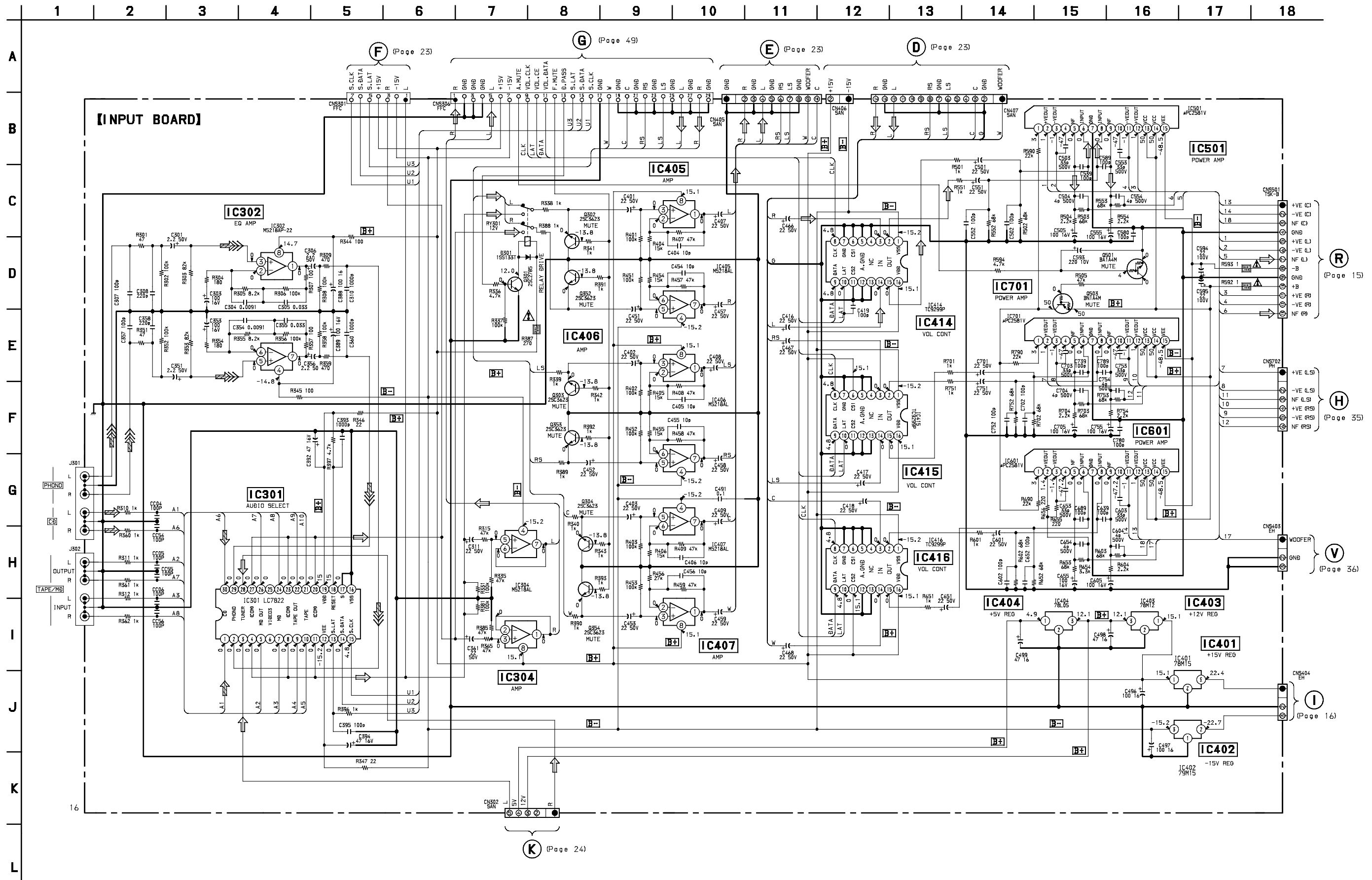
3-10. PRINTED WIRING BOARD — INPUT SECTION — • See page 7 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D301	F-10
IC301	C-4
IC302	D-4
IC304	E-6
IC401	C-12
IC402	B-12
IC403	D-12
IC404	E-4
IC405	E-12
IC406	D-12
IC407	D-12
IC414	B-11
IC415	C-11
IC416	D-11
IC501	C-9
IC601	D-7
IC701	C-7
Q301	F-11
Q302	E-11
Q303	E-11
Q304	D-11
Q352	E-11
Q353	D-10
Q354	D-11
Q501	C-10
Q503	C-10



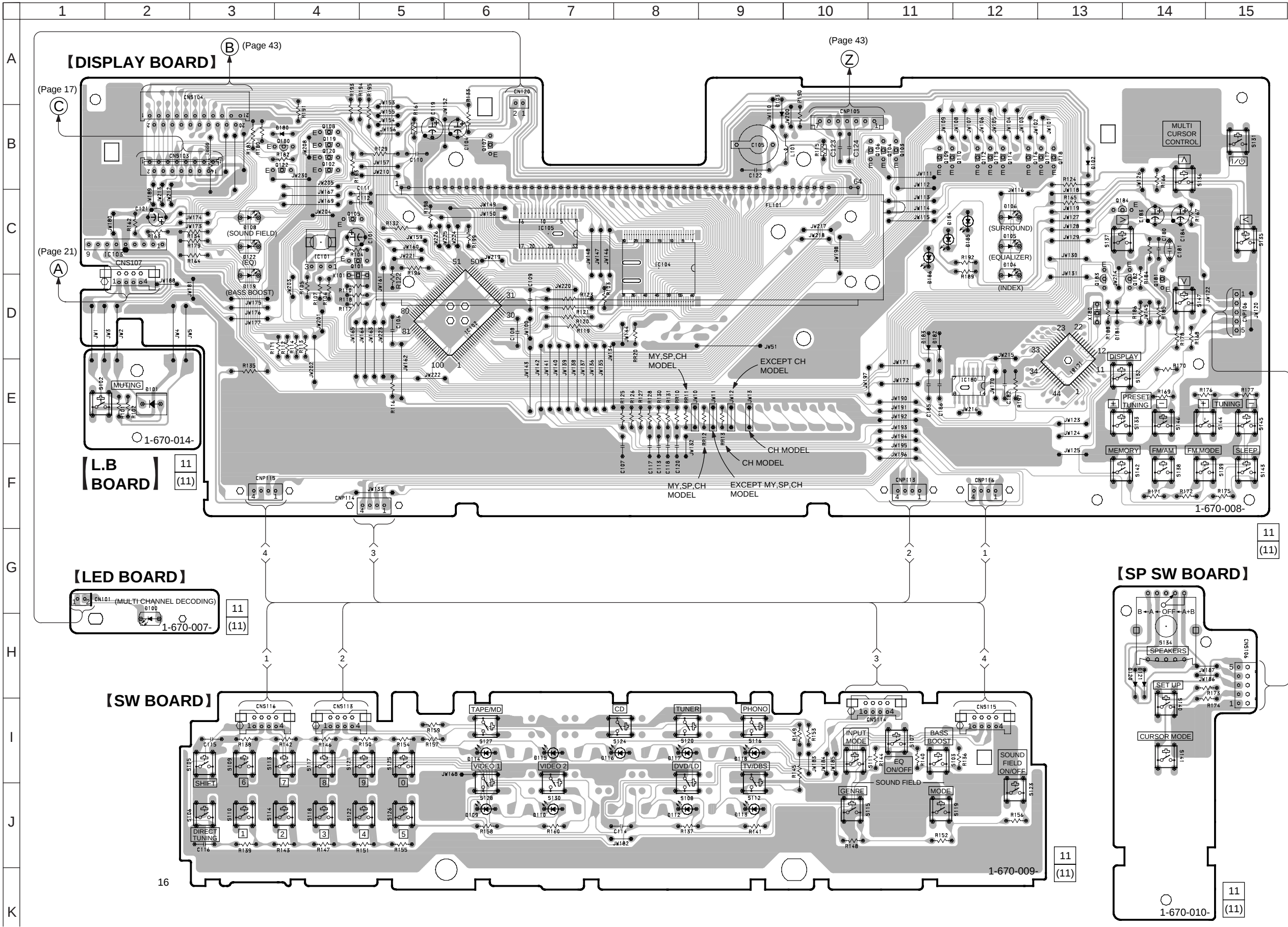
3-11. SCHEMATIC DIAGRAM — INPUT SECTION — • See page 60 for IC Block Diagrams.



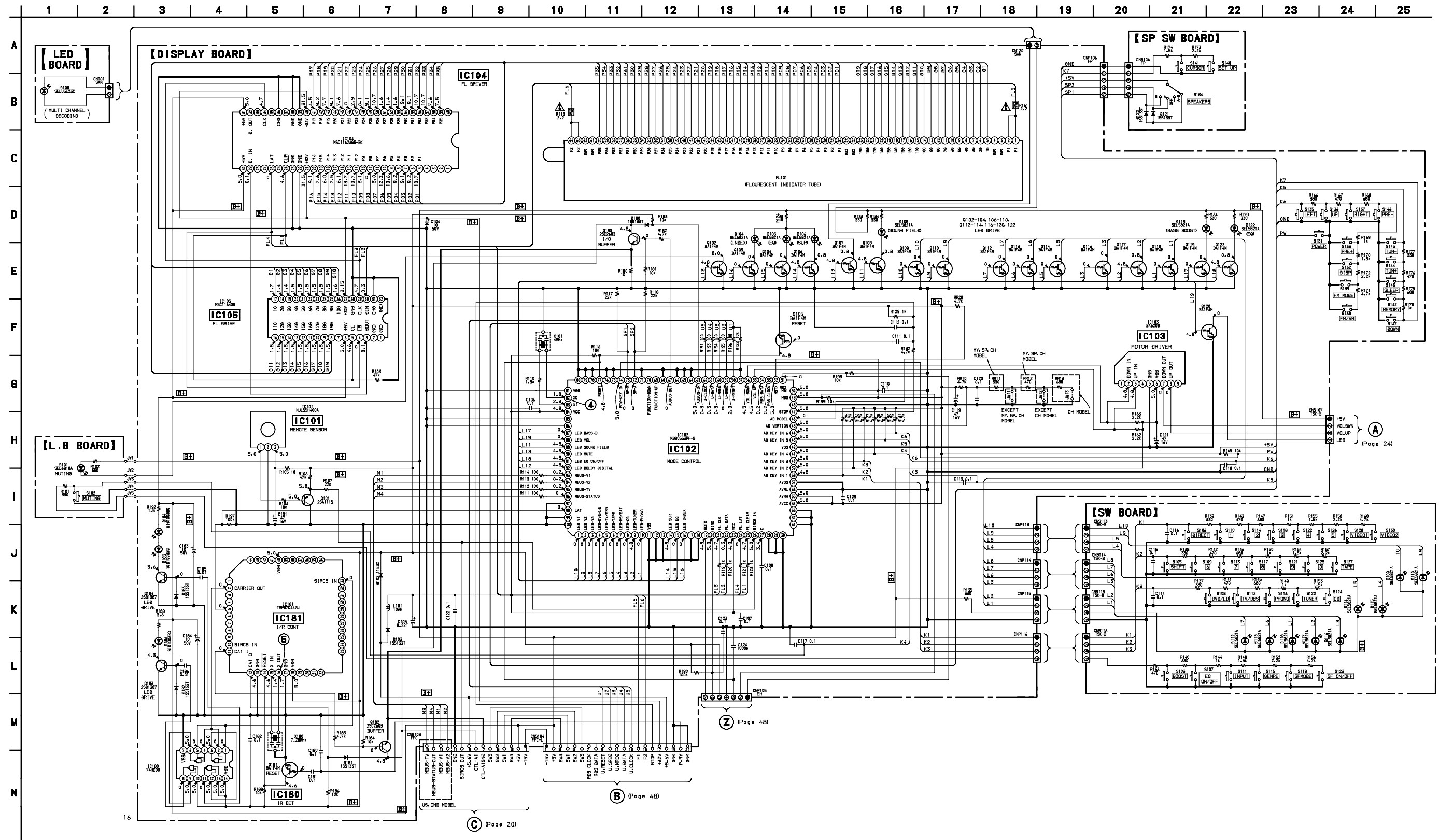
3-12. PRINTED WIRING BOARD — DISPLAY SECTION — • See page 7 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D100	H-2
D101	E-2
D102	B-13
D103	B-9
D104	C-12
D105	C-12
D106	C-12
D108	C-3
D109	J-6
D110	J-7
D111	J-7
D112	J-8
D113	J-9
D114	I-6
D115	I-7
D116	I-7
D117	I-8
D118	I-9
D119	D-3
D120	I-13
D121	I-14
D122	C-3
D180	B-3
D181	D-13
D182	E-11
D183	E-11
D184	C-11
D185	C-12
D186	C-11
IC101	C-4
IC102	D-6
IC103	C-1
IC104	D-8
IC105	C-7
IC180	E-12
IC181	E-13
Q101	C-4
Q102	B-4
Q103	B-11
Q104	B-11
Q105	C-4
Q106	B-11
Q107	B-6
Q108	B-4
Q109	B-11
Q110	B-11
Q111	B-12
Q112	B-12
Q113	B-12
Q114	B-12
Q115	B-12
Q116	B-12
Q117	B-13
Q118	B-13
Q119	B-4
Q120	B-4
Q122	B-3
Q180	B-3
Q181	C-14
Q182	C-14
Q183	C-13
Q184	C-13

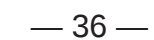


3-13. SCHEMATIC DIAGRAM — DISPLAY SECTION — • See page 8 for Waveform. • See page 51 for IC Pin Function Description. • See page 60 for IC Block Diagrams.



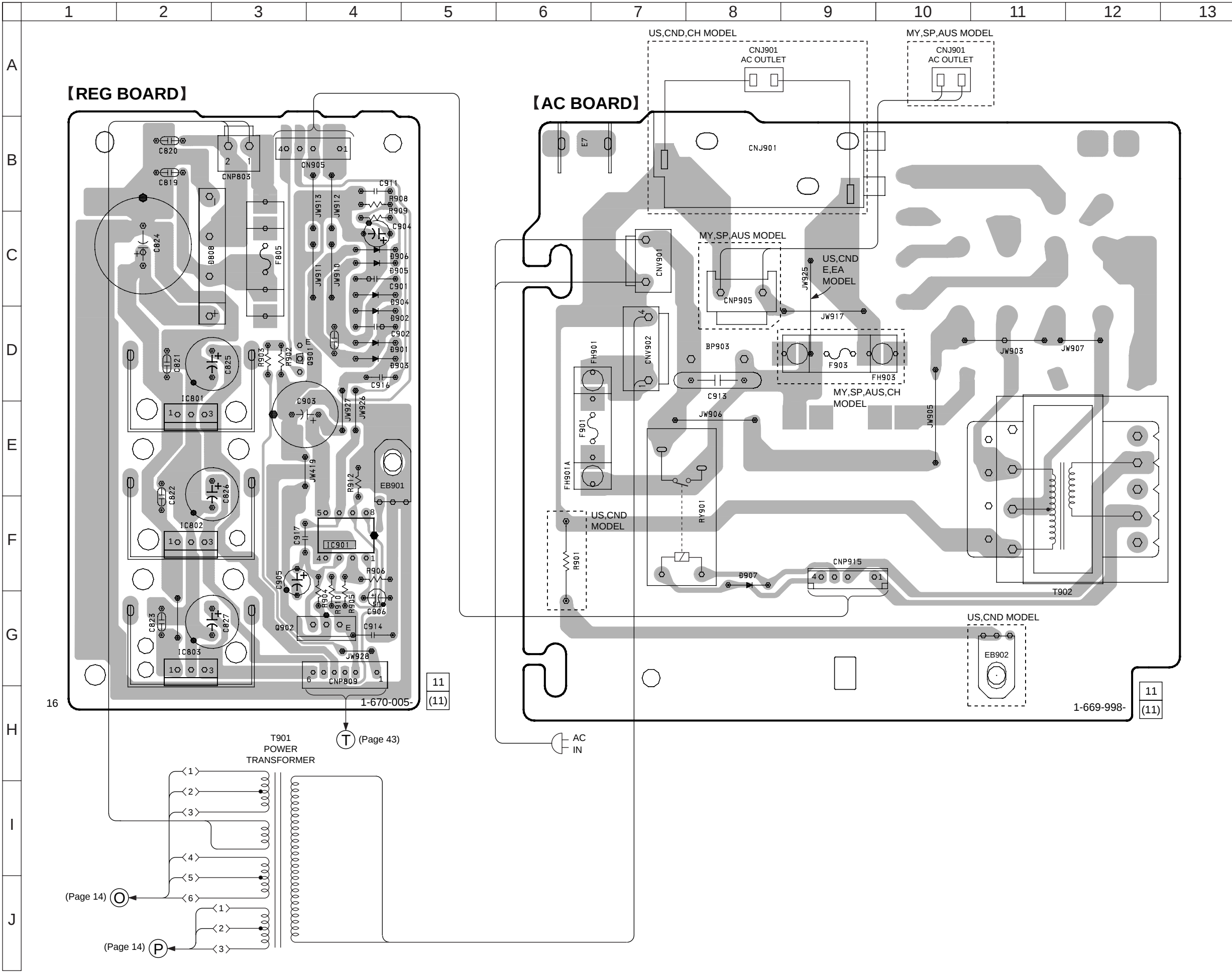
Ref. No.	Location
D543	G-3
D543	G-10
D605	F-5
D605	F-11
D606	F-5
D606	F-12
D607	F-12
D607	G-5
D649	E-3
D649	F-9
D701	B-7
D702	B-7
D703	B-7
D704	B-7
D705	G-3
D705	G-9
D706	F-3
D706	F-9
D749	E-2
D749	E-8
D751	B-3
D752	B-3
D753	B-3
D754	B-3
IC702	E-6
IC702	F-13
Q544	F-6
Q544	F-10
Q609	E-5
Q609	E-12
Q610	F-6
Q610	F-12
Q611	F-5
Q611	F-12
Q645	E-5
Q645	E-11
Q704	B-7
Q705	B-7
Q706	B-7
Q707	B-6
Q708	B-8
Q709	F-2
Q709	F-8
Q710	F-2
Q710	F-9
Q745	F-4
Q745	F-10
Q747	E-6
Q747	E-12
Q748	E-6
Q748	F-12
Q754	B-3
Q755	A-3
Q756	A-4
Q757	A-2
Q758	B-2

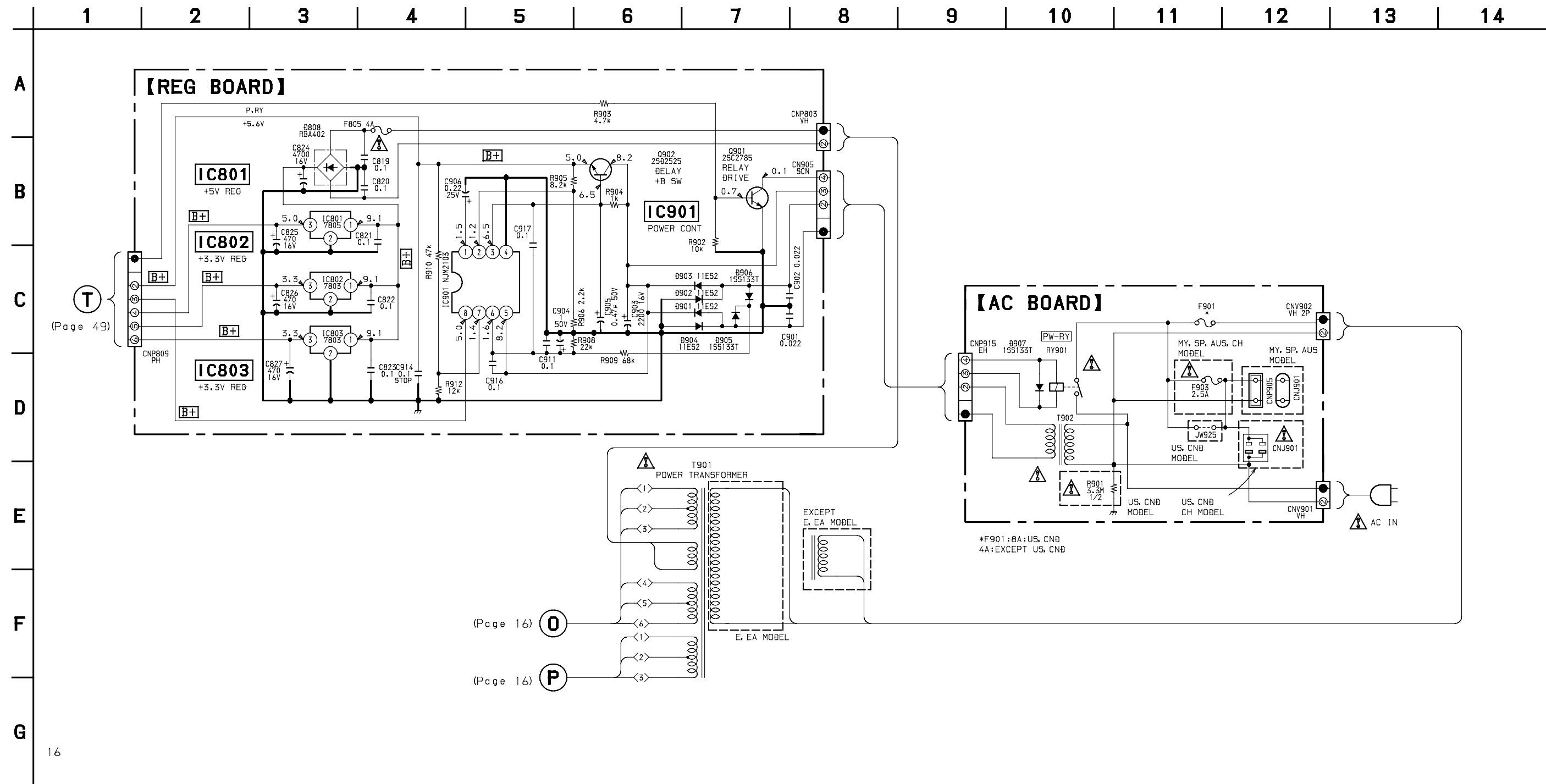




• Semiconductor Location

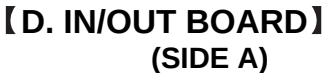
Ref. No.	Location
D808	C-3
D901	D-4
D902	D-4
D903	D-4
D904	C-4
D905	C-4
D906	C-4
D907	G-8
IC801	E-2
IC802	F-3
IC803	G-3
IC901	F-4
Q901	D-4
Q902	G-4



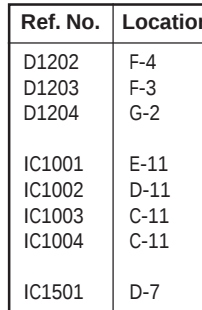


- Semiconductor Location

Ref. No.	Location
D1201	H-4
D1205	G-8
D1206	H-4
IC1005	D-13
IC1006	C-13
IC1007	B-13
IC1101	F-10
IC1102	E-11
IC1103	D-2
IC1104	F-4
IC1105	F-2
IC1106	F-3
IC1107	F-4
IC1108	E-10
IC1109	E-11
IC1154	F-5
IC1201	F-7
IC1202	B-6
IC1301	C-8
IC1302	C-10
IC1303	D-9
IC1304	D-10
IC1305	D-7
IC1401	C-5
IC1402	C-3
IC1403	D-8
Q1201	H-3
Q1202	H-3
Q1203	H-3
Q1204	E-9
Q1205	E-9
Q1206	E-9
Q1207	E-8
Q1208	H-4

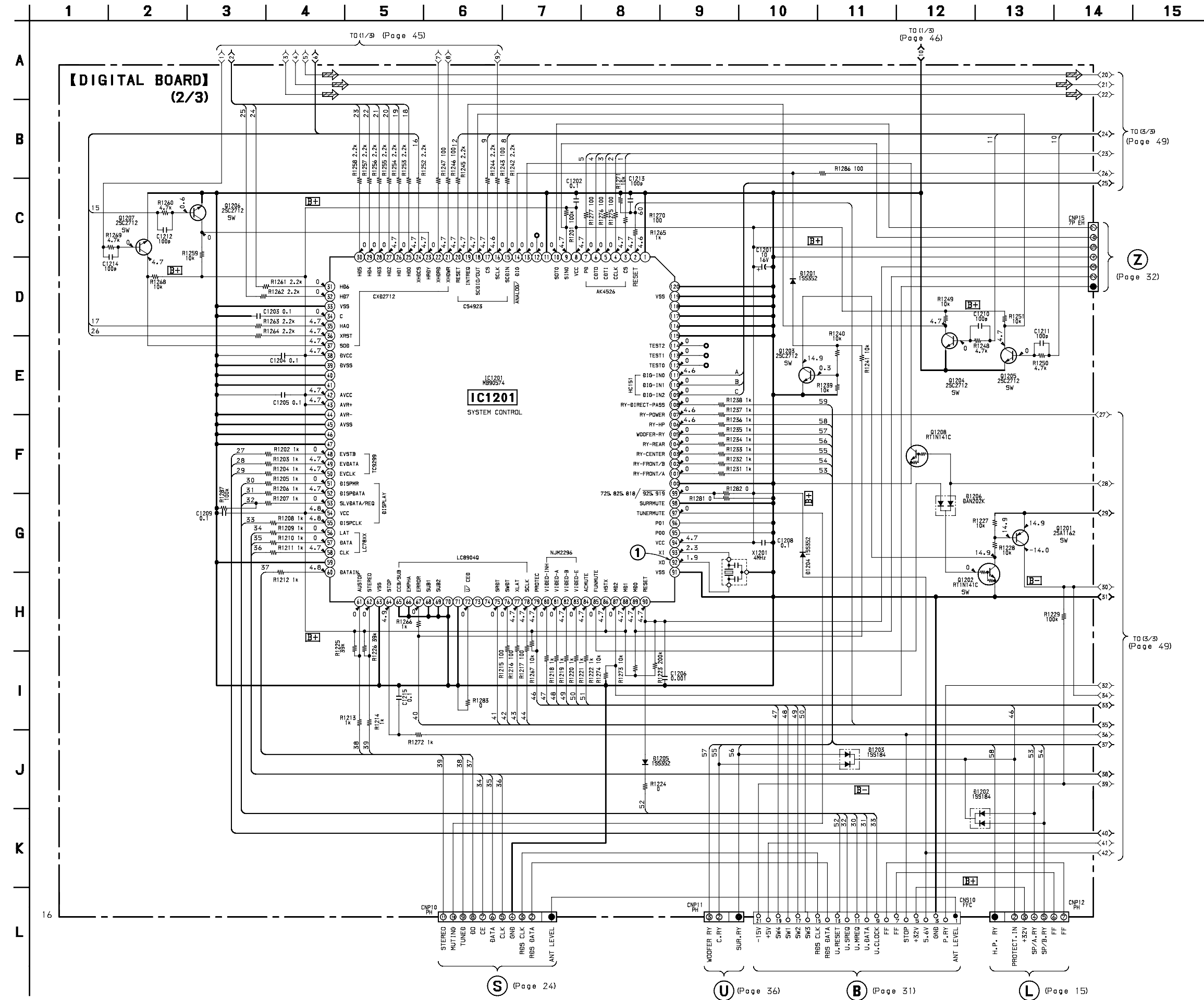


- See page 7 for Circuit Boards Location.





3-21. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/3)— • See page 51 for IC Pin Functions. • See page 8 for Waveforms.





3-23. IC PIN FUNCTION DESCRIPTION

IC1103 AK4526 (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	SDOS	I	SDTO source select pin “L”: internal ADC output, “H”: DAUX input ORed with serial control register if $P/\bar{S} = \text{“L”}$ (Connected to GND)
2	$\overline{\text{MCLK}}$	I	MCKO clock frequency select pin “L”: MCLK, “H”: MCLK/2. ORed with serial control register if $P/\bar{S} = \text{“L”}$ (Connected to GND)
3	$\bar{S}/M$	I	Audio data master/slave mode select pin “L”: slave mode, “H”: master mode (Connected to GND)
4	BCLK	I/O	Audio serial data clock pin
5	LRCK	I/O	Input/output channel clock pin
6	SDT11	I	DAC1 audio serial data input pin
7	SDT12	I	DAC2 audio serial data input pin
8	SDT13	I	DAC3 audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	AUX audio serial data input pin (Connected to GND)
11	DFS	I	Double speed sampling mode pin “L”: normal speed, “H”: double speed ORed with serial control register if $P/\bar{S} = \text{“L”}$ (Connected to GND)
12 – 13	DEM1 – DEM0	I	De-emphasis pin ORed with serial control register if $P/\bar{S} = \text{“L”}$ (Connected to GND)
14	MCKO	O	Master clock output pin (Not used)
15	D. 5V	—	Digital power supply pin
16	D. GND	—	Digital ground pin
17	$\overline{\text{PD}}$	I	Power-down & reset pin When “L”, the AK4526 is powered-down and the control registers are reset to default state. If the state of $P/\bar{S}$, $M/\bar{S}$, CAD0-1 changes, then the AK4526 must be reset by $\overline{\text{PD}}$.
18	TEST	I	X’tal oscillator select/test mode pin “H”: X’tal oscillator selected “L”: External clock source selected “NC”: If pin is floating then test mode is enabled. (Connected to GND)
19	ICKS1	I	Input clock select 1 pin (Connected to GND)
20	ICKS0	I	Input clock select 0 pin (Connected to GND)
21	CAD1	I	Chip address pin Used during the serial control mode. (Connected to GND)
22	CAD0	I	Chip address pin Used during the serial control mode. (Connected to GND)
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #1 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN–	I	Lch analog negative input pin
30	LIN+	I	Lch analog positive input pin

Pin No.	Pin Name	I/O	Description
31	RIN-	I	Rch analog negative input pin
32	RIN+	I	Rch analog positive input pin
33	VREFL	I	Negative voltage reference input pin, AVSS (Connected to GND)
34	VCOM	O	Common voltage output pin, AVDD/2 Large external capacitor is used to reduce power-supply noise
35	VREFH	I	Positive voltage reference input pin, AVDD
36	A. 5V	—	Analog power supply pin
37	A. GND	—	Analog ground pin
38	XTI	I	X'tal input pin (Not used)
39	MCLKI	I	External master clock input pin if XTS = "L"
40	S/P	I	Parallel/serial select pin "L": serial control mode, "H": parallel control mode (Connected to GND)
41	CS	I	Chip select pin in serial mode
42	CCLK	I	Control data clock pin in serial mode
43	CDTI	I	Control data input in serial mode
44	CDTO	O	Control data output pin in serial mode

If pins TEST, ICKS0, ICKS1, $\overline{PD}$, $\overline{S/P}$, DFS, DEM0, DEM1, CAD0, CAD1, $\overline{S/M}$, $\overline{MCLK}$, SDOS are not driven, then TEST, ICKS0, ICKS1, CAD0, CAD1, must be tied to either AVSS or AVDD. $\overline{PD}$, $\overline{S/P}$, DFS, DEM0, DEM1, $\overline{S/M}$, $\overline{MCLK}$, SDOS must be tied to either DVSS or DVDD.

IC1401 CXD2712R (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	VSS3	—	GND
2 – 5	SOA – SOD	O	Serial data output
6, 7	ECJ0, ECJ1	I	Conditional jump input terminal (7pin Connected to GND)
8	—	NC	No connection
9	XHDWR	I	HCIF data write
10	XHDRD	I	HCIF data read
11	Vss4	—	GND
12	VDD2	—	+3.3V
13	HRDY	O	HCIF ready signal Open drain
14	XHDCS	I	HCIF chip select
15	HA0	I	HCIF address input
16 – 20	HD0 – HD4	I/O	HCIF data input/output
21	Vss5	—	GND
22	VDD3	—	+3.3V
23 – 25	HD5 – HD7	I/O	HCIF data input/output
26	XRST	I	Reset input “L”: active
27 – 30	FGP0 – FGP3	O	Test data output
31	Vss6	—	GND
32 – 40	ED0 – ED8	I/O	External RAM data input/output
41	Vss7	—	GND
42	VDD4	—	+3.3V
43 – 49	ED9 – ED15	I/O	External RAM data input/output
50	TSTD	I	Test data input “L” = normal “H” = test (Connected to GND)
51	Vss8	—	GND
52	VDD5	—	+3.3V
53 – 60	ED16 – ED23	I/O	External RAM data input/output
61	Vss9	—	GND
62 – 69	ED24 – ED31	I/O	External RAM data input/output
70	XOE	O	External RAM output enable
71	Vss10	—	GND
72	VDD6	—	+3.3V
73	CAS	O	External RAM column address strobe (Not used)
74	XWE	O	External RAM write enable (Not used)
75	RAS	O	External RAM row address strobe
76 – 80	EA0 – EA4	I/O	External RAM address output/test data input
81	Vss11	—	GND
82	VDD7	—	+3.3V
83 – 89	EA5 – EA11	I/O	External RAM address output/test data input
90	EA12	O	External RAM address output

Pin No.	Pin Name	I/O	Description
91	Vss0	—	GND
92 – 94	EA13 – EA15	O	External RAM address output
95	EA16	O	Not used
96	TSTA	I	Test data input “L” = normal “H” = test (Connecting to GND)
97	PLDIVF	I	PLL input frequency select “L” = 256Fs “H” = 128Fs (Connecting to GND)
98	PLDIVB	O	PLL output frequency select “L” = 768Fs “H” = 1024Fs (Connecting to GND)
99	CLKI	I	Master clock input
100	CLKO	O	Master clock output (Not used)
101	Vss1	—	GND
102	VDD0	—	+3.3V
103	AVss	—	GND for PLL cell
104	AVDD	—	VDD for PLL cell
105	PLLCK	I/O	PLL output/test clock input
106	XPLEN	I	PLL cell oscillation enable “L” oscillation enable “H” oscillation stop (Connecting to GND)
107	TST	I	Test data input “L” = normal “H” = test (Connecting to GND)
108	LRCT	I	Frequency counter input (Connecting to GND)
109	LROUT	O	LRCK0 divider output
110	BKOUT	O	BCK0 divider output
111	Vss2	—	GND
112	VDD1	—	+3.3V
113	BCK0	I	BCK input
114	BCK1	I	BCK input
115	LRCK0	I	LRCK input
116	LRCK1	I	LRCK input
117 – 120	SIA – SID	I	Serial data input

IC1101 CAD8495AQ (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	DOUT/V	O	EIAJ data and parity flag output terminal (Not used)
2	EMPHA	O	Emphasis monitor output terminal (“H” = ON)
3	RC1	I	Input terminal for RC generator/oscillator
4	RC2	O	Output terminal for RC generator/oscillator
5	CCB/ $\overline{\text{SUB}}$	I	Microprocessor I/F select input terminal (CCB: H, @SUB@: L) (Connecting to GND)
6	D. GND	—	Digital GND
7	CLKMD	O	Clock output select terminal (“L” = 256fs, “H” = 128fs) (Connecting to GND)
8	CLK	I	Clock input select terminal (“H” = 512fs, “L” = 384fs)
9	TEST1	I	Test terminal (normally ground)
10	TEST2	I	Test terminal (normally ground)
11	RESET	I	Reset input terminal
12	D. VDD	—	Digital power supply
13	NC	—	No connect
14	A. VDD	—	Analog power supply
15	R	I	Input terminal for VCO generator band adjustment
16	A. GND	—	Analog GND
17	VCO IN	I	Input terminal for VCO self running frequency set
18	VCO	O	External LPF for PLL is connected to this terminal
19	D. VDD	—	Digital power supply
20	SBSY	O	CD subcode I/F and block sync output terminal (Not used)
21	PW	O	CD subcode I/F and data output terminal (Not used)
22	SFSY	O	CD subcode I/F and frame sync output terminal (Not used)
23	SBCK	I	CD subcode I/F and shift clock input terminal for data reading (Not used)
24	D. GND	—	Digital GND
25	D. VDD	—	Digital power supply
26	XIN	I	Crystal oscillator input terminal
27	XOUT	O	Crystal oscillator output terminal
28	CLK OUT1	O	VCO and crystal oscillator clock output terminal (Not used)
29	CLK OUT2	O	256fs or 128fs clock output terminal (Select CLKMD terminal)
30	ERROR	O	Error mute output terminal
31	D. GND	—	Digital GND
32	SUB1	O	Sampling frequency monitor output terminal
33	SUB2	O	Sampling frequency monitor output terminal
34	BCLK	O	Bit clock output terminal
35	DATA OUT	O	Audio data output terminal
36	LRCK	O	L, R clock output terminal (L-ch: “H”, R-ch: “L”)
37	LD/DQSY	O	Microprocessor I/F and subcode Q data sync output terminal (Not used)
38	SRDT	O	Microprocessor I/F. When CCB/ $\overline{\text{SUB}}$ is “L”, data output terminal (3-state output)
39	DO	O	Microprocessor I/F. When CCB/ $\overline{\text{SUB}}$ is “H”, data output terminal (high level open drain output) (Not used)
40	DI/SWDT	I	Microprocessor I/F. Data input terminal
41	CE/XLAT	I	Microprocessor I/F. Chip enable/latch input terminal
42	CL/SCLK	I	Microprocessor I/F. Clock input terminal
43	D. VDD	—	Digital power supply
44	DIN1	I	Amplifier integrate data input terminal (Connecting to GND)
45	DIN2	I	Amplifier integrate data input terminal (Connecting to GND)
46	DIN3	I	Amplifier integrate data input terminal (Connecting to GND)
47	DIN4	I	Amplifier integrate data input terminal
48	D. GND	—	Digital GND

IC1201 MB90574PFV-G-146-BND (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	—	—	Not used (Connected to GND)
2	RESET	O	RF demodulator/DIR reset
3	CS	O	To AK4526 chip select
4	CCLK	O	To AK4526 clock
5	CDT1	I	To AK4526 data input
6	CDTO	O	To AK4526 data output
7	PD	O	To AK4526 reset
8	VCC	—	Power supply +5 V
9	SIN0	I	UART input. Used for rewriting flash memory
10	SOT0	O	UART output. Used for rewriting flash memory
11	—	—	Not used (Connected to GND)
12	—	—	Not used (Not connected, open)
13	—	—	Not used (Not connected, open)
14	ANA/DIG	O	Analog/digital selection (74HC157)
15	SCDIN	I	To CS4926 data input
16	SDLK	O	To CS4926 clock
17	CS	O	To CS4926 chip select
18	SCDIO/OUT	O	To CS4926 SPI data out
19	INTREQ	I	To CS4926 interrupt request
20	RESET	O	To CS4926 reset
21	XHDWR	O	To CXD2712 data write
22	XHDRD	O	To CXD2712 data read
23	HRDY	I	To CXD2712 ready
24	XHDCS	O	To CXD2712 chip select
25	HD 0	O	To CXD2712 data I/O
26	HD 1	O	To CXD2712 data I/O
27	HD 2	O	To CXD2712 data I/O
28	HD 3	O	To CXD2712 data I/O
29	HD 4	O	To CXD2712 data I/O
30	HD 5	O	To CXD2712 data I/O
31	HD 6	O	To CXD2712 data I/O
32	HD 7	O	To CXD2712 HD7
33	VSS	—	GND (Connected to GND)
34	C	—	External power regulator capacitor 0.1μ is connected to this terminal.
35	HA0	O	To CXD2712 address
36	XRST	O	To CXD2712 reset
37	SOD	I	To CXD2712 LFE detection
38	DVCC	—	Digital power supply +5 V
39	DVSS	—	Digital GND (Connected to GND)
40	—	—	Not used (Connected to GND)
41	—	—	Not used (Connected to GND)
42	AVCC	—	Analog power supply +5 V
43	AVR+	—	Power supply +5 V
44	AVR-	—	GND (Connected to GND)
45	AVSS	—	GND (Connected to GND)
46	—	—	Not used (Connected to GND)
47	—	—	Not used (Connected to GND)
48	EVSTB	O	To TC9299 strobe
49	EVDATA	O	To TC9299 data
50	EVCLK	O	To TC9299 clock

Pin No.	Pin Name	I/O	Description
51	DISPMR	I	Display master request (Connected to MB90553 U.MREQ)
52	DISPDATA	I	Display data (Connected to MB90553 U.DATA)
53	SLV DTA/REQ	O	Slave data/request (Connected to MB90553 U.SREQ)
54	VCC	—	Power supply +5 V
55	DISP CLK	I	Display clock (Connected to MB90553 U.CLOCK)
56	LAT	O	To tuner TM301 latch
57	DATA	O	To tuner TM301 data
58	CLK	O	To tuner TM301 clock
59	—	—	Not used (Connected to GND)
60	DATA IN	I	PLL data input
61	AUSTOP	I	Auto stop input
62	STEREO	I	Stereo input
63	VSS	—	GND (Connected to GND)
64	STOP	I	AC power check
65	CCB/SUB	I	Not used (Connected to GND)
66	EMPHA	I	Not used (Connected to GND)
67	ERROR	O	Error output to CXD8495AQ
68	SUB 1	I	Not used (Connected to GND)
69	SUB 2	I	Not used (Connected to GND)
70	—	—	Not used (Connected to GND)
71	—	—	Not used (Connected to GND)
72	@U@/CED	I	U or CED (STR only)
73	—	—	Not used (Not connected, open)
74	—	—	Not used (Not connected, open)
75	SRDT	I	To CXD8495AQ C-bit
76	SWDT	O	To CXD8495AQ data
77	XLAT	O	To CXD8495AQ latch
78	SCLK	O	To CXD8495AQ clock
79	PROTEC	I	Protector input
80	VIDEO-INH	O	Video output inhibit
81	VIDEO-A	O	To NJM2296 video select A
82	VIDEO-B	O	To NJM2296 video select B
83	VIDEO-E	O	To NJM2296 video select E
84	ACMUTE	O	IC muting
85	FUNMUTE	O	Function muting
86	HSTX	—	Hardware standby (Connected to power supply +5 V)
87	MD 2	—	MD2 (To MB90553 MD2)
88	MD 1	—	MD1 (Connect to power supply)
89	MD 0	—	MD0 (To MB90553 MD0)
90	RESET	I	Reset (Connected to MB90553 U.RESET)
91	VSS	—	GND (Connected to GND)
92	X 0	—	External ceramic filter 4 MHz is connected to this terminal
93	X 1	—	External ceramic filter 4 MHz is connected to this terminal
94	VCC	—	Power supply +5 V
95	P 00	I	Flash memory rewrite (Connected to GND)
96	P 01	I	Flash memory rewrite (Connected to GND)
97	TUNER MUT	O	Tuner muting
98	SURR MUT	O	Surround muting (Connected to GND)
99	7E/8E	I	Not used (Connected to GND)
100	—	—	Not used (Connected to GND)

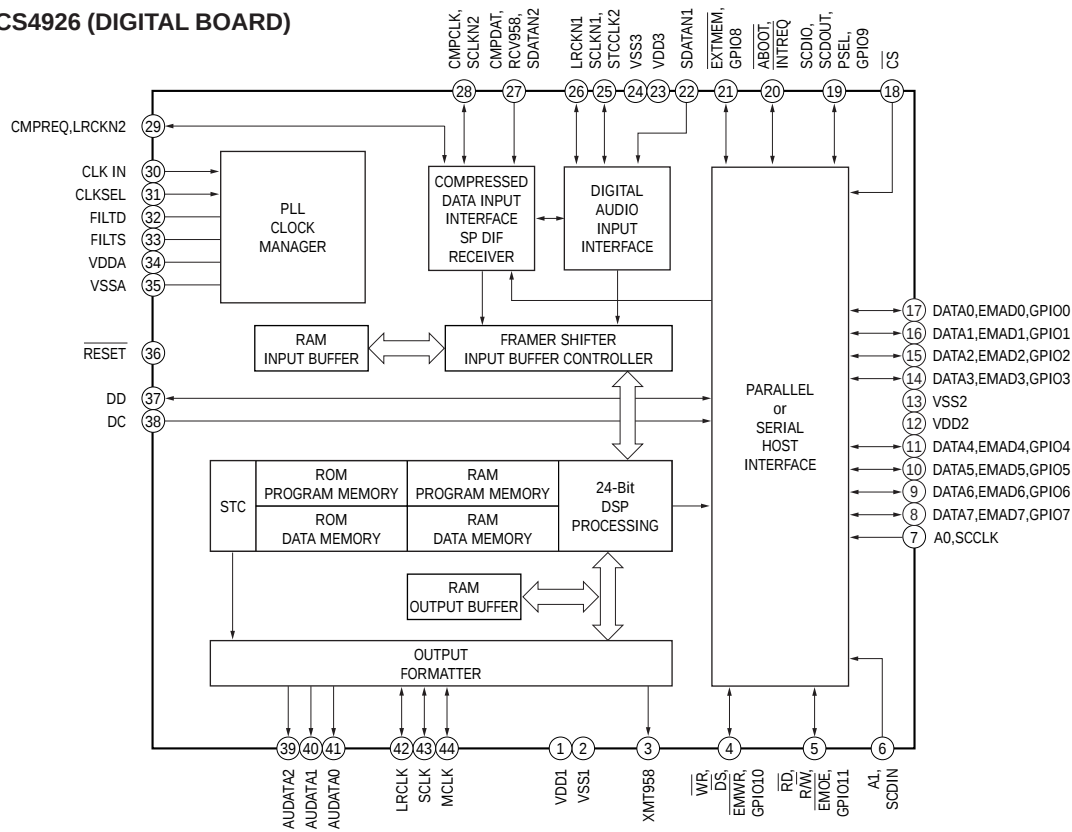
Pin No.	Pin Name	I/O	Description
101	RY-FRONT/A	O	Front speaker A relay
102	RY-FRONT/B	O	Front speaker B relay
103	RY-CENTER	O	Center speaker relay
104	RY-REAR	O	Rear speaker relay
105	WOOFER-RY	O	Sub Woofer relay
106	RY-HP	O	Head phone relay
107	RY-POWER	O	Power relay
108	RY-DIR-PASS	O	Direct pass relay
109	DIG-IN 2	I	Digital input select 2 (74HC151)
110	DIG-IN 1	I	Digital input select 1 (74HC151)
111	DIG-IN 0	I	Digital input select 0 (74HC151)
112	TEST 0	—	Test port 0 (Not connected, open)
113	TEST 1	—	Test port 1 (Not connected, open)
114	TEST 2	—	Test port 2 (Not connected, open)
115	—	—	Not used (Connected to GND)
116	—	—	Not used (Connected to GND)
117	—	—	Not used (Connected to GND)
118	—	—	Not used (Connected to GND)
119	VSS	—	GND (Connected to GND)
120	—	—	Not used (Connected to GND)

IC102 MB90553PF-G-121-BND (DISPLAY BOARD)

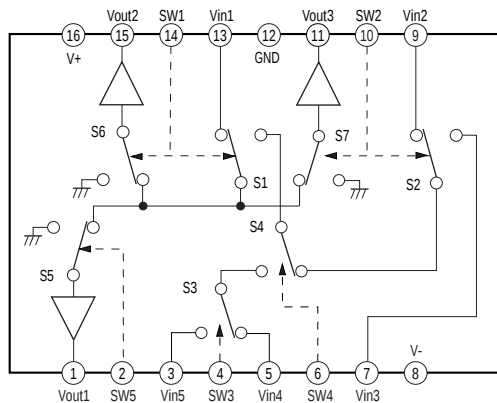
Pin No.	Pin Name	I/O	Description
1	LED V1	O	VIDEO 1 VISUAL display data output to LED
2	LED V2	O	VIDEO 2 AUDIO display data output to LED
3	LED V3	O	VIDEO 3 VISUAL display data output to LED
4	LED-DVD/LD	O	DVD/LD AUDIO display data output to LED
5	LED-TV/DBS	O	DVD/LD VISUAL display data output to LED
6	LED-TAPE	O	TV/DBS AUDIO display data output to LED
7	LED-MD/DAT	O	TV/DBS VISUAL display data output to LED
8	LED-CD	O	TAPE display data output to LED
9	LED-TUNER	O	MD/DAT display data output to LED
10	LED-PHONO	O	CD display data output to LED
11	VSS	—	GND (Connected to GND)
12	—	—	Not used. (Connected to GND)
13	—	—	Not used. (Connected to GND)
14	LED SUR	O	CURSOR MODE SURROUND display data output to LED
15	LED EQ	O	CURSOR MODE EQUIPMENT display data output to LED
16	LED INDEX	O	CURSOR MODE INDEX display data output to LED
17	—	—	Not used. (Connected to GND)
18	—	—	Not used. (Connected to GND)
19	SOT0	O	UART data output to rewrite flash memory
20	SIN0	I	UART data input to rewrite flash memory
21	FL CLK	O	Clock output to fluorescent display tube
22	FL DATA	O	Data output to fluorescent display tube
23	VCC	—	Power supply +5 V
24	FL LAT	O	Fluorescent latch
25	FL CLEAR	O	Fluorescent clear
26	SIRCS IN	I	SIRCS input
27	C	—	External power regulator capacitor 0.1μ is connected to this terminal.
28	—	—	Not used (Connected to GND)
29	—	—	Not used (Connected to GND)
30	—	—	Not used (Connected to GND)
31	—	—	Not used (Connected to GND)
32	—	—	Not used (Connected to GND)
33	—	—	Not used (Connected to GND)
34	AVCC	—	Analog power supply +5 V
35	AVRH	—	AVRH (Connected to power supply +5 V)
36	AVRL	—	SVRL (Connected to GND)
37	AVSS	—	GND (Connected to GND)
38	AD KEY IN 1	I	Key input 1
39	AD KEY IN 2	I	Key input 2
40	AD KEY IN 3	I	Key input 3
41	AD KEY IN 4	I	Key input 4
42	VSS	—	GND (Connected to GND)
43	AD KEY IN 5	I	Key input 5
44	AD KEY IN 6	I	Key input 6
45	AD VERSION	I	Version input
46	AD MODEL	I	Model input
47	STOP	I	Stop input
48	—	—	Not used (Connected to GND)
49	MD 0	I	MD 0 (To MD0 of MB90574)
50	MD 1	I	MD 1 (Connected to power supply +5 V)

Pin No.	Pin Name	I/O	Description
51	MD 2	I	MD 2 (To MD2 of MB90574)
52	HSTX	I	Hardware STANDBY input
53	RDS CLOCK	I	RDS clock input
54	RDS DATA	I	RDS data input
55	VOL UP	O	Volume up data output
56	VOL DOWN	O	Volume down data output
57	—	—	Not used (Connected to GND)
58	U-RESET	O	Reset output (Connected to MB90574 RESET)
59	U-SREQ	I	Slave request and data input (Connected to MB90574 SLV DATA/REQ)
60	U-MREQ	O	Master request output (Connected to MB90574 DISPMR)
61	U-DATA	O	Master data output (Connected to MB90574 DISP DATA)
62	U-CLOCK	O	Master clock output (Connected to MB90574 DISPCLK)
63	AUBUS-IN	I	Audio bus input
64	—	—	Not used (Connected to GND)
65	—	—	Not used (Connected to GND)
66	—	—	Not used (Connected to GND)
67	AUBUS-OUT	O	Audio bus output
68	—	—	Not used (Connected to GND)
69	FUNCTION-UP	I	Function encoder up input
70	FUNCTION-DW	I	Function encoder down input
71	—	—	Not used (Connected to GND)
72	SP-A	I	Speaker A selector switch input
73	SP-B	I	Speaker B selector switch input
74	POW-KEY IN	I	Power key input
75	—	—	Not used (Connected to GND)
76	—	—	Not used (Connected to GND)
77	RESET	I	Reset (Display MCU)
78	—	—	Not used (Connected to GND)
79	—	—	Not used (Connected to GND)
80	—	—	Not used (Connected to GND)
81	VSS	—	GND (Connected to GND)
82	X0	—	External ceramic filter 4 MHz is connected to this terminal
83	X1	—	External ceramic filter 4 MHz is connected to this terminal
84	VCC	—	Power supply +5 V
85	—	—	Not used. (Connected to GND)
86	—	—	Not used. (Connected to GND)
87	LED BASS. B	O	BASS. B display data output to LED
88	LED VOL	O	VOLUME display data output to LED
89	LED SOUND FIELD	O	SOUND FIELD display data output to LED
90	LED MUTE	O	MUTE display data output to LED
91	LED EQ ON/OFF	O	EQ ON/OFF display data output to LED
92	LED DOLBY DIGITAL	O	DOLBY/DIGITAL display data output to LED
93	MBUS-V1	I	V1 input from MBUS
94	MBUS-V 2	I	V2 input from MBUS
95	MBUS-TV	I	TV input from MBUS
96	MBUS-STATUS	I	STATUS input from MBUS
97	—	—	Not used. (Connected to GND)
98	LAT	O	Learning microprocessor latch output
99	—	—	Not used. (Connected to GND)
100	—	—	Not used. (Connected to GND)

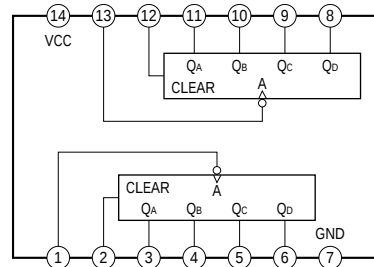
3-24. IC BLOCK DIAGRAMS
IC1301 CS4926 (DIGITAL BOARD)



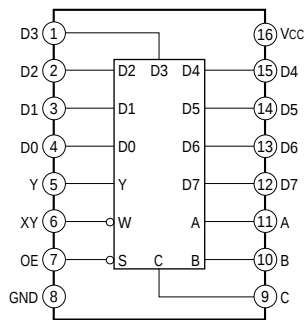
IC201 NJM2296D (VIDEO BOARD)



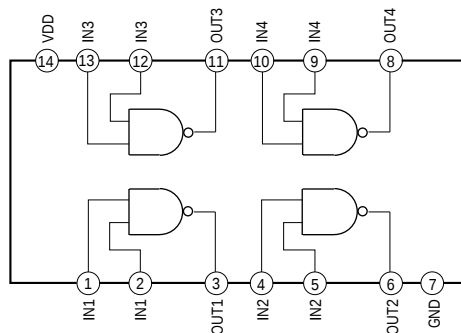
IC1403 TC74VHC393FT(EL) (DIGITAL BOARD)



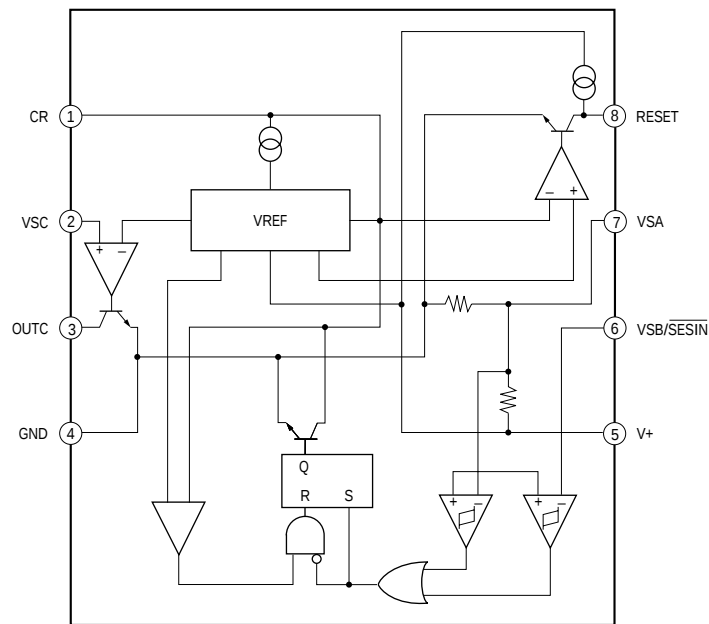
IC1005 TC74HC151AF (EL) (D. IN/OUT BOARD)



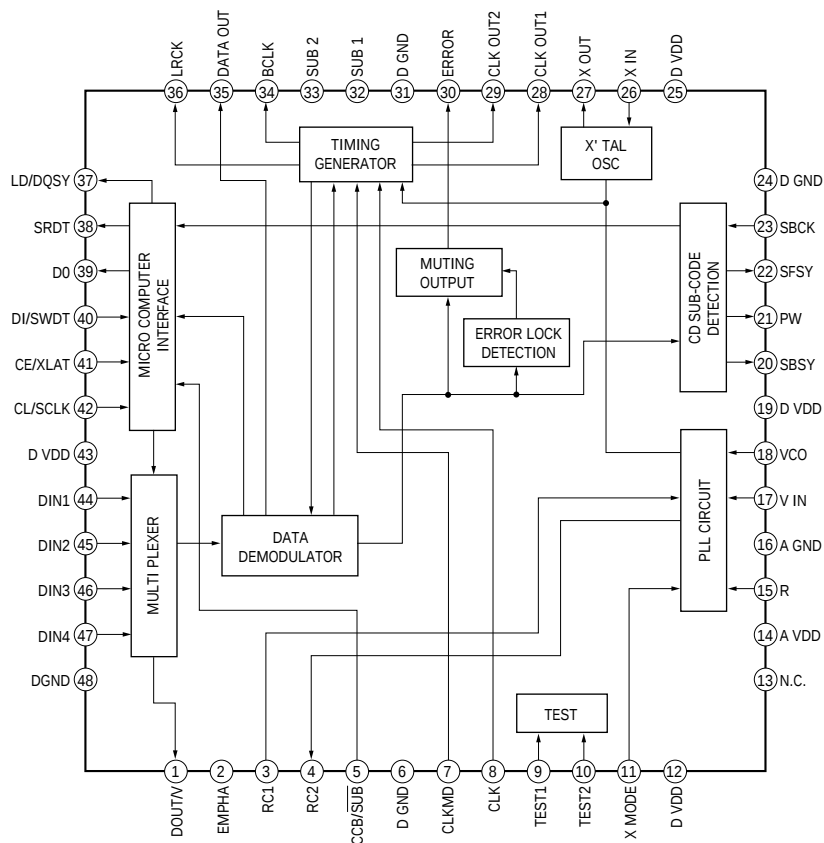
IC1108 MC74HC00AF (DIGITAL BOARD)



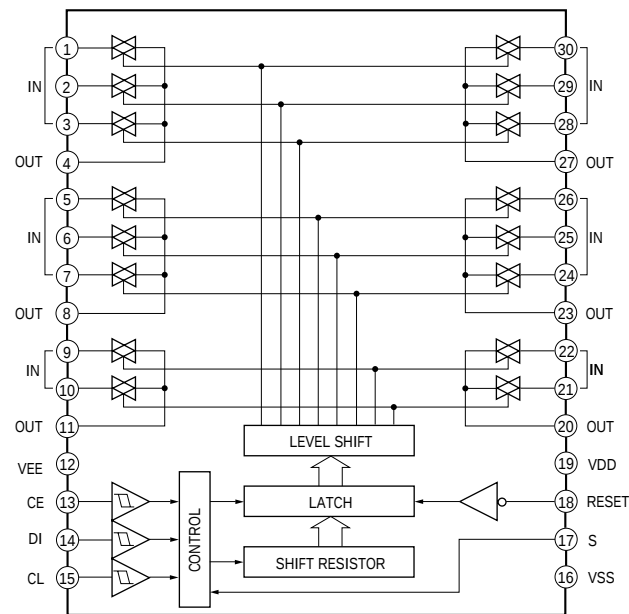
IC901 NJM2103D (REG BOARD)



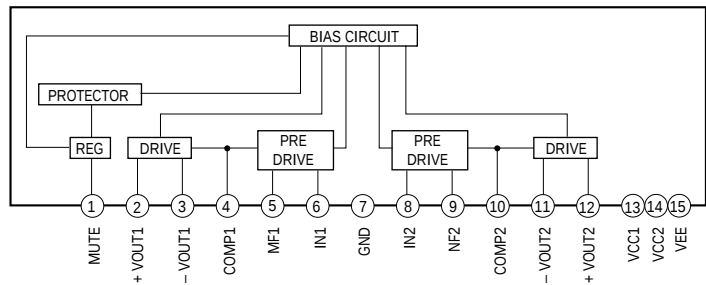
IC1101 CXD8495AQ (DIGITAL BOARD)



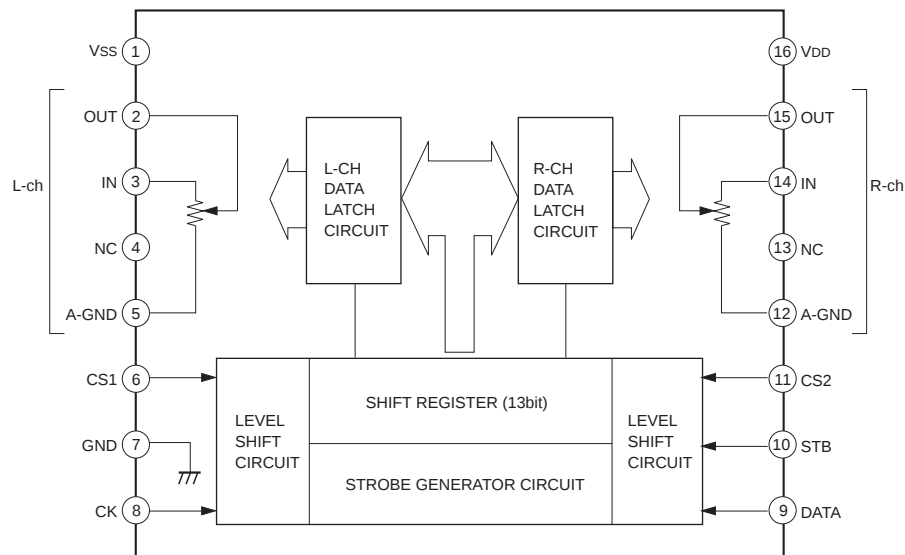
IC301 LC7822 (INPUT BOARD)



IC501, IC601, IC701 uPC2581V (INPUT BOARD)



IC414, IC415, IC416 TC9299P (INPUT BOARD)



SECTION 4

EXPLODED VIEWS

NOTE:

- XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
CND : Canadian
CH : Chinese
AUS : Australian
MY : Malaysia
SP : Singapore
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)

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

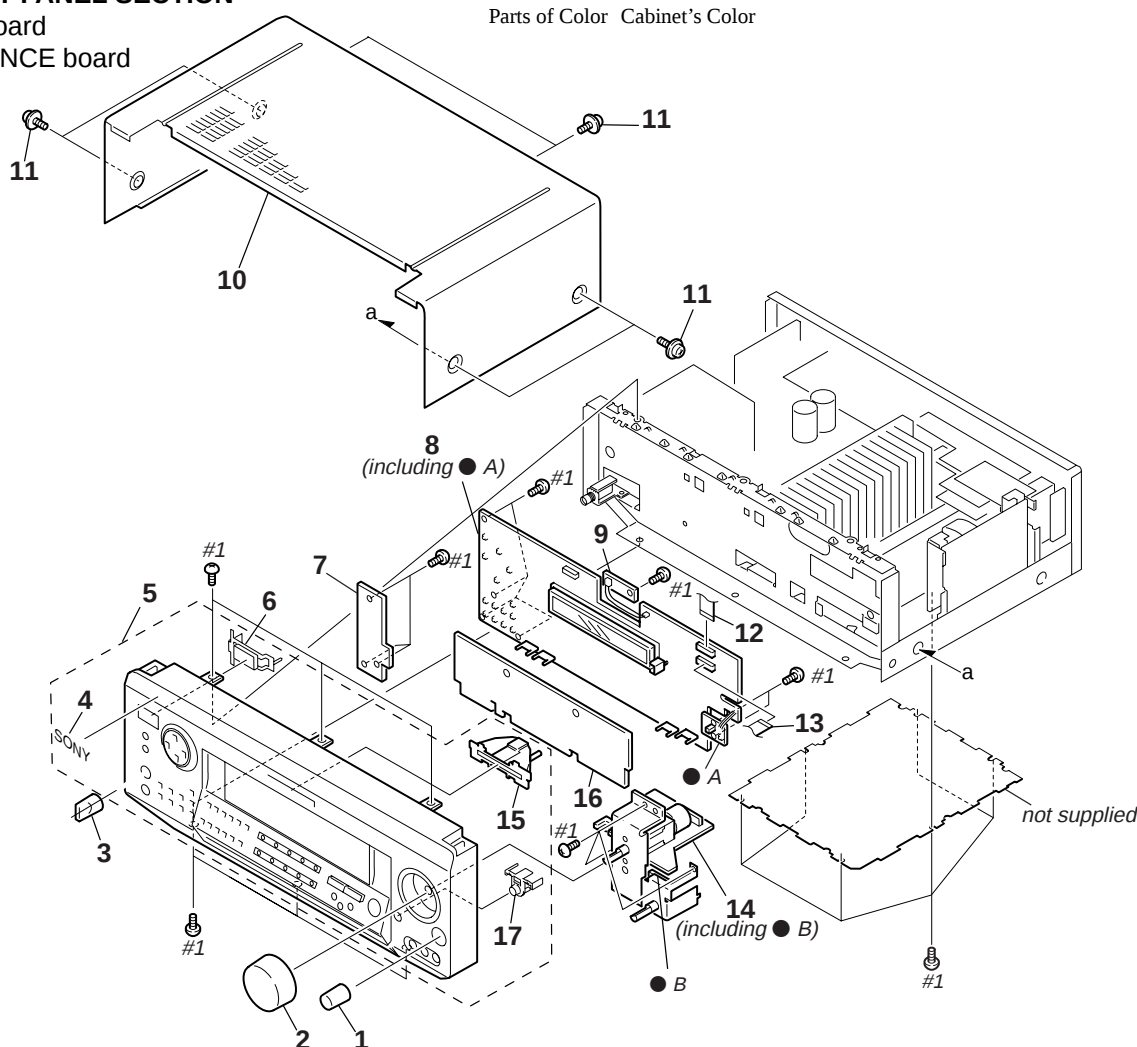
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

4-1. FRONT PANEL SECTION

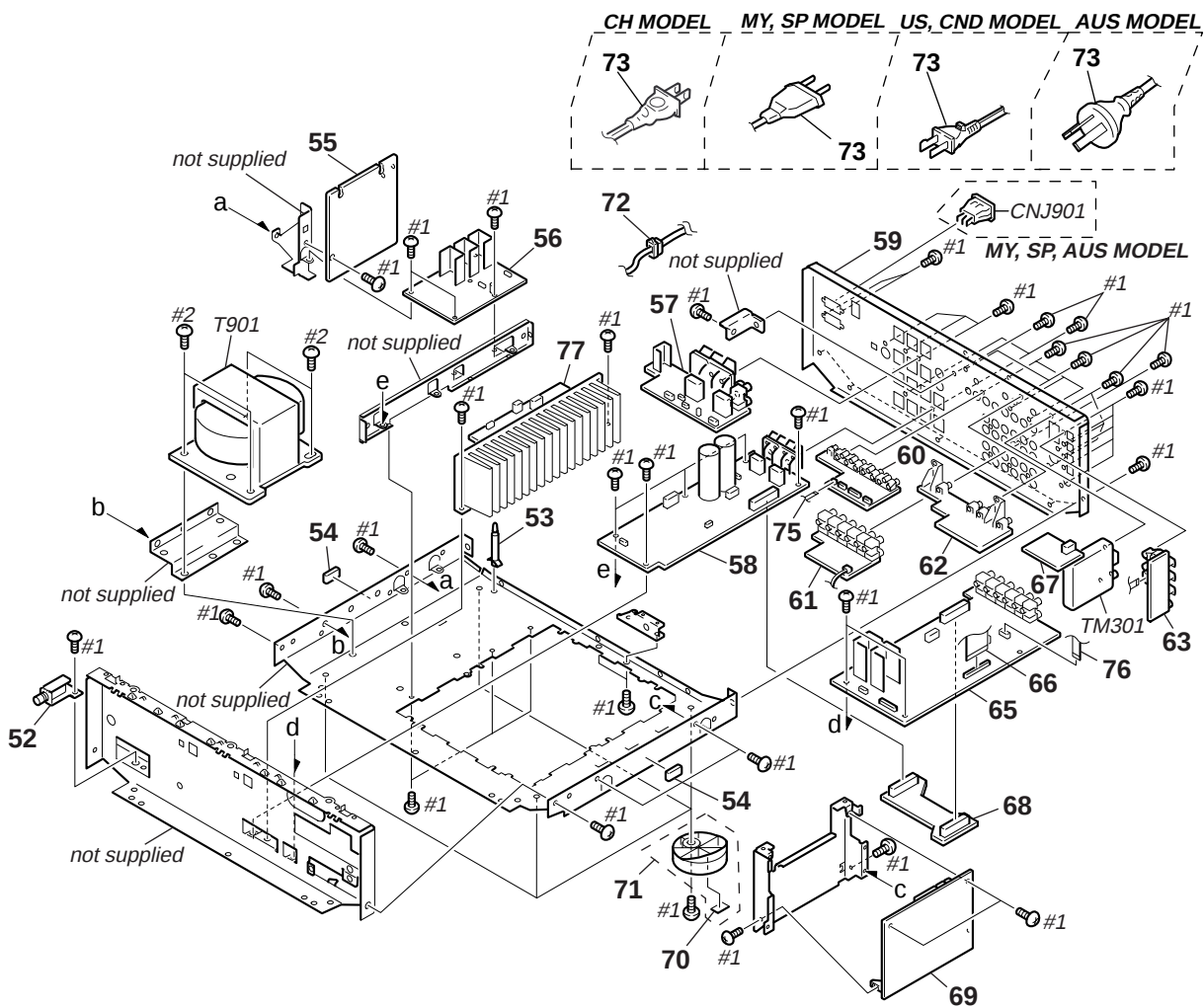
●A : L.B board

●B : BALANCE board



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-957-383-01	KNOB (F14)(BLACK)		* 8	A-4414-136-A	DISPLAY BOARD, COMPLETE (MY,SP)	
1	4-957-383-21	KNOB (F14)(GOLD)		* 8	A-4414-140-A	DISPLAY BOARD, COMPLETE (CH)	
2	X-4949-751-1	KNOB ASSY (U8) (BLACK)		* 9	1-670-007-11	LED BOARD	
2	X-4949-752-1	KNOB ASSY (C8) (GOLD)		* 10	4-982-682-01	CASE (414532)(BLACK) (US,CND,AUS)	
3	4-998-717-01	KNOB (BAL) (BLACK)		10	X-4947-722-1	CASE ASSY (BLACK) (MY,SP)	
3	4-998-717-11	KNOB (BAL) (GOLD)		10	X-4947-723-1	CASE ASSY (GOLD) (CH)	
4	4-996-698-01	EMBLEM, SONY (SILVER)		11	3-710-901-01	SCREW, TAPPING (GOLD)	
4	4-996-698-11	EMBLEM, SONY (GOLD)		11	3-710-901-11	SCREW, TAPPING (BLACK)	
5	X-4949-910-1	PANEL ASSY, FRONT (BLACK) (MY,SP)		12	1-773-161-11	WIRE (FLAT TYPE)(21 CORE)	
5	X-4949-748-1	PANEL ASSY (U8), FRONT (BLACK)	(US,CND,AUS)	13	1-769-959-11	WIRE (FLAT TYPE)(11 CORE)(MY,SP,AUS,CH)	
5	X-4949-749-1	PANEL ASSY (C8),FRONT(GOLD) (CH)		13	1-773-025-11	WIRE (FLAT TYPE)(15 CORE)(US,CND)	
6	4-989-843-31	BUTTON (P-T) (BLACK)		* 14	A-4414-066-A	VOLUME BOARD, COMPLETE	
6	4-989-843-41	BUTTON (P-T) (GOLD)		15	X-3375-588-1	ESCUTCHEON (WIN) ASSY	
* 7	1-670-010-11	SP SW BOARD		* 16	A-4414-123-A	SW BOARD, COMPLETE	
* 8	A-4414-122-A	DISPLAY BOARD, COMPLETE (US,CND)		17	4-989-850-01	BUTTON (BB) (BLACK)	
* 8	A-4414-132-A	DISPLAY BOARD, COMPLETE (AUS)		17	4-989-850-11	BUTTON (BB) (GOLD)	

4-2. CHASSIS SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
* 52	1-670-006-11	H.P BOARD	
* 53	4-924-098-31	HOLDER, PC BOARD	
54	4-985-642-01	CUSHION	
* 55	1-669-998-11	AC BOARD	
* 56	A-4414-109-A	REG BOARD, COMPLETE	
* 57	A-4414-090-A	SP BOARD, COMPLETE (MY,SP,CH)	
* 57	A-4414-124-A	SP BOARD, COMPLETE (US,CND,AUS)	
* 58	A-4414-120-A	AMPLIFIER BOARD, COMPLETE (US,CND,AUS)	
* 58	A-4414-134-A	AMPLIFIER BOARD, COMPLETE (MY,SP)	
* 58	A-4414-138-A	AMPLIFIER BOARD, COMPLETE (CH)	
* 59	4-999-237-11	PANEL, BACK (US)	
* 59	4-999-237-21	PANEL, BACK (CND)	
* 59	4-999-237-31	PANEL, BACK (AUS)	
* 59	4-999-237-41	PANEL, BACK (MY,SP)	
* 59	4-999-237-51	PANEL, BACK (CH)	
* 60	1-670-003-11	VIDEO BOARD	
* 62	1-670-013-11	S-LINK BOARD (US,CND)	
* 62	1-670-004-11	S-VIDEO BOARD (MY,SP,CH)	
* 63	1-670-029-11	D.IN/OUT BOARD	
* 65	A-4414-121-A	INPUT BOARD, COMPLETE (US,CND,AUS)	
* 65	A-4414-135-A	INPUT BOARD, COMPLETE (MY,SP)	
* 65	A-4414-139-A	INPUT BOARD, COMPLETE (CH)	
66	1-773-285-11	WIRE (FLAT TYPE) (29 CORE)	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
* 67	1-670-000-11	TUNER BOARD	
* 68	1-670-027-11	JOINT BOARD	
* 69	A-4414-126-A	DIGITAL BOARD, COMPLETE	
70	4-977-358-11	CUSHION	
71	X-4947-208-1	FOOT ASSY (F50150S)(BLACK)	
71	X-4947-547-1	FOOT ASSY (F50150S)(GOLD)	
* 72	3-703-244-00	BUSHING (2104), CORD	
△ 73	1-696-847-11	CORD, POWER (AUS)	
△ 73	1-769-743-11	CORD, POWER (US,CND)	
△ 73	1-769-744-11	CORD, POWER (MY,SP)	
△ 73	1-782-464-21	CORD, POWER (CH)	
75	1-769-904-11	WIRE (FLAT TYPE) (9 CORE)(MY,SP,CH)	
76	1-769-876-11	WIRE (FLAT TYPE) (7 CORE)	
* 77	A-4414-112-A	REAR AMP BOARD, COMPLETE	
△ CNJ901	1-251-416-11	OUTLET, A.C. (AUS)	
△ CNJ901	1-526-794-11	OUTLET, AC (MY,SP)	
△ T901	1-431-887-11	TRANSFORMER, POWER (US)	
△ T901	1-431-888-11	TRANSFORMER, POWER (CND)	
△ T901	1-431-890-11	TRANSFORMER, POWER (AUS)	
△ T901	1-431-894-11	TRANSFORMER, POWER (MY,SP,CH)	
△ TM301	1-693-407-11	TUNER (US,CND)	
△ TM301	1-693-409-11	TUNER (MY,SP,AUS,CH)	

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

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

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

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

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

Les composants identifiés par une marque Δ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

- 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.
- CAPACITORS:
uF: μ F
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- Abbreviation
CND : Canadian MY : Malaysia
AUS : Australian SP : Singapore
CH : Chinese

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	1-669-998-11	AC BOARD *****		< CAPACITOR >			
	1-533-217-31	HOLDER, FUSE < JACK >		C520	1-126-022-11	ELECT 47uF 20% 16V	
				C521	1-107-597-11	CERAMIC 22PF 10% 500V	
				C522	1-107-597-11	CERAMIC 22PF 10% 500V	
				C523	1-162-286-31	CERAMIC 220PF 10% 50V	
				C524	1-126-059-11	ELECT 10uF 20% 50V	
Δ CNJ901	1-540-041-11	OUTLET, AC (NONPOLAR) (2P) (CH)					
Δ CNJ901	1-540-060-11	OUTLET, AC (POLAR) (US,CND)		C525	1-136-161-00	FILM 0.047uF 5% 50V (CH,SP,MY)	
		< CONNECTOR >		C526	1-136-153-00	FILM 0.01uF 5% 50V	
* CNP905	1-580-230-21	PIN, CONNECTOR (PC BOARD) 2P (MY,SP,AUS)		C527	1-136-161-00	FILM 0.047uF 5% 50V (CH,SP,MY)	
CNP915	1-691-766-11	PLUG (MICRO CONNECTOR) 4P					
		< CONNECTOR >		C570	1-126-022-11	ELECT 47uF 20% 16V	
CNV901	1-564-321-00	PIN, CONNECTOR 2P		C571	1-107-597-11	CERAMIC 22PF 10% 500V	
* CNV902	1-565-792-11	PIN, CONNECTOR 2P					
		< DIODE >		C572	1-107-597-11	CERAMIC 22PF 10% 500V	
				C573	1-162-286-31	CERAMIC 220PF 10% 50V	
				C574	1-126-059-11	ELECT 10uF 20% 50V	
				C575	1-136-161-00	FILM 0.047uF 5% 50V (CH,SP,MY)	
D907	8-719-911-19	DIODE 1SS119					
		< EARTH >		C576	1-136-153-00	FILM 0.01uF 5% 50V (CH,SP,MY)	
* EB902	1-537-738-21	TERMINAL, EARTH (US,CND)					
		< FUSE >		C577	1-136-161-00	FILM 0.047uF 5% 50V (CH,SP,MY)	
				C590	1-124-472-11	ELECT 470uF 20% 10V	
Δ F901	1-532-504-51	FUSE TIME LGA 4A (MY,SP,AUS,CH)		C598	1-126-233-11	ELECT 22uF 20% 50V	
Δ F901	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5)8A (US,CND)		C620	1-126-022-11	ELECT 47uF 20% 16V	
Δ F903	1-532-464-51	FUSE TIME LAG 2.5A (MY,SP,AUS,CH)		C621	1-107-597-11	CERAMIC 22PF 10% 500V	
		< RESISTOR >					
Δ R901	1-202-725-00	SOLID 3.3M 10% 1/2W (US,CND)		C622	1-107-597-11	CERAMIC 22PF 10% 500V	
		< RELAY >		C623	1-162-286-31	CERAMIC 220PF 10% 50V	
Δ RY901	1-515-999-11	RELAY, POWER		C625	1-136-161-00	FILM 0.047uF 5% 50V (CH,SP,MY)	
		< TRANSFORMER >					
Δ T902	1-431-387-11	TRANSFORMER, POWER (MY,SP,AUS,CH)		C627	1-136-161-00	FILM 0.047uF 5% 50V (CH,SP,MY)	
Δ T902	1-450-361-11	TRANSFORMER, POWER (US,CND)					
*****				C801	1-104-664-11	ELECT 47uF 20% 25V	
*	A-4414-120-A	AMPLIFIER BOARD, COMPLETE (US,CND,AUS) *****					
*	A-4414-134-A	AMPLIFIER BOARD, COMPLETE (MY,SP) *****		C803	1-117-950-11	ELECT 10000uF 20% 63V (MY,SP,CH)	
*	A-4414-138-A	AMPLIFIER BOARD, COMPLETE (CH) *****					
				C803	1-109-932-11	ELECT(BLOCK) 10000uF 20% 71V (US,CND,AUS)	
				C804	1-117-950-11	ELECT 10000uF 20% 63V (MY,SP,CH)	
				C804	1-109-932-11	ELECT(BLOCK) 10000uF 20% 71V (US,CND,AUS)	
				C805	1-130-781-00	FILM 0.22uF 10% 100V	
				C806	1-130-781-00	FILM 0.22uF 10% 100V	
				C807	1-126-967-11	ELECT 47uF 20% 50V	
				C808	1-126-967-11	ELECT 47uF 20% 50V	
				C811	1-126-041-11	ELECT 2200uF 20% 35V	
				C812	1-126-105-11	ELECT 1000uF 20% 35V	
	1-533-293-11	FUSE HOLDER		The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified. Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.			

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C813	1-126-022-11	ELECT	47uF 20% 16V	△F803	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)4A(US,CND)	
CC48	1-136-153-00	FILM	0.01uF 5% 50V	△F804	1-532-504-51	FUSE TIME LGA 4A (MY,SP,AUS,CH)	
CC49	1-136-153-00	FILM	0.01uF 5% 50V	△F804	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)4A(US,CND)	
CC98	1-136-153-00	FILM	0.01uF 5% 50V			< IC >	
CC99	1-136-153-00	FILM	0.01uF 5% 50V	IC809	8-759-708-05	IC NJM78L05A	
		< CONNECTOR >				< COIL >	
CNP751	1-779-978-11	PIN, CONNECTOR 3P		L501	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)	
* CNP801	1-564-243-11	PIN, CONNECTOR 6P		L501	1-420-872-00	COIL, AIR-CORE (US,CND,AUS)	
* CNP802	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P		L551	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)	
CNP805	1-784-923-11	PIN, CONNECTOR 7P		L551	1-420-872-00	COIL, AIR-CORE (US,CND,AUS)	
CNP806	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				< TRANSISTOR >	
CNS651	1-784-806-11	HOUSING, CONNECTOR (PC BOARD) 13P		Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< DIODE >		Q505	8-729-209-15	TRANSISTOR 2SD2012	
D501	8-719-911-19	DIODE 1SS119		Q506	8-749-010-25	TRANSISTOR MN2488-OPY-M	
D502	8-719-109-51	DIODE RD2.0ES-B2		Q507	8-749-010-26	TRANSISTOR MP1620-OPY-M	
D503	8-719-109-51	DIODE RD2.0ES-B2		Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D504	8-719-911-19	DIODE 1SS119					
D505	8-719-911-19	DIODE 1SS119		Q509	8-729-281-53	TRANSISTOR 2SC1815-GR	
D506	8-719-911-19	DIODE 1SS119		Q510	8-729-900-63	TRANSISTOR DTA124ES	
D545	8-719-911-19	DIODE 1SS119		Q511	8-729-900-63	TRANSISTOR DTA124ES	
D546	8-719-911-19	DIODE 1SS119		Q546	8-729-119-79	TRANSISTOR 2SC2785-FEK	
D547	8-719-911-19	DIODE 1SS119		Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D548	8-719-911-19	DIODE 1SS119					
D549	8-719-911-19	DIODE 1SS119		Q548	8-729-119-79	TRANSISTOR 2SC2785-FEK	
D551	8-719-911-19	DIODE 1SS119		Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D552	8-719-109-51	DIODE RD2.0ES-B2		Q554	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D553	8-719-109-51	DIODE RD2.0ES-B2		Q555	8-729-209-15	TRANSISTOR 2SD2012	
D554	8-719-911-19	DIODE 1SS119		Q556	8-749-010-25	TRANSISTOR MN2488-OPY-M	
D555	8-719-911-19	DIODE 1SS119					
D556	8-719-911-19	DIODE 1SS119		Q557	8-749-010-26	TRANSISTOR MP1620-OPY-M	
D601	8-719-911-19	DIODE 1SS119		Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D602	8-719-109-51	DIODE RD2.0ES-B2		Q559	8-729-281-53	TRANSISTOR 2SC1815-GR	
D603	8-719-109-51	DIODE RD2.0ES-B2		Q560	8-729-900-63	TRANSISTOR DTA124ES	
D604	8-719-911-19	DIODE 1SS119		Q561	8-729-900-63	TRANSISTOR DTA124ES	
D608	8-719-911-19	DIODE 1SS119					
D647	8-719-911-19	DIODE 1SS119		Q596	8-729-119-79	TRANSISTOR 2SC2785-FEK	
D648	8-719-911-19	DIODE 1SS119		Q601	8-729-119-79	TRANSISTOR 2SC2785-FEK	
D801	8-719-302-37	DIODE RBV-602 (MY,SP,CH)		Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D801	8-719-302-38	DIODE RBV-602-01 (US,CND,AUS)		Q605	8-729-209-15	TRANSISTOR 2SD2012	
D802	8-719-024-99	DIODE 11ES2-NTA2B		Q606	8-749-010-25	TRANSISTOR MN2488-OPY-M	
D803	8-719-024-99	DIODE 11ES2-NTA2B					
D804	8-719-024-99	DIODE 11ES2-NTA2B		Q607	8-749-010-26	TRANSISTOR MP1620-OPY-M	
D805	8-719-024-99	DIODE 11ES2-NTA2B		Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D806	8-719-160-26	DIODE RD5.6F-B2		Q612	8-729-281-53	TRANSISTOR 2SC1815-GR	
D807	8-719-934-22	DIODE HZS30-2L		Q613	8-729-281-53	TRANSISTOR 2SC1815-GR	
		< EARTH >		Q614	8-729-201-53	TRANSISTOR 2SA1015-GR	
* EB701	1-537-738-21	TERMINAL, EARTH					
* EB702	1-537-738-21	TERMINAL, EARTH		Q615	8-729-900-36	TRANSISTOR DTC124ES	
		< FUSE >		Q616	8-729-900-36	TRANSISTOR DTC124ES	
△F801	1-532-506-51	FUSE TIME LAG 6.3A (AUS)		Q617	8-729-900-36	TRANSISTOR DTC124ES	
△F801	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5)8A (US,CND,MY,SP,CH)		Q618	8-729-900-63	TRANSISTOR DTA124ES	
△F802	1-532-506-51	FUSE TIME LAG 6.3A (AUS)		Q801	8-729-026-68	TRANSISTOR 2SD2525(TP)	
△F802	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5)8A (US,CND,MY,SP,CH)				< RESISTOR >	
△F803	1-532-504-51	FUSE TIME LGA 4A (MY,SP,AUS,CH)		R521	1-249-422-11	CARBON 2.7K 5% 1/4W F	
				R522	1-249-433-11	CARBON 22K 5% 1/4W	
				R523	1-249-414-11	CARBON 560 5% 1/4W F	
				△R524	1-249-408-11	CARBON 180 5% 1/4W F	
				△R525	1-249-408-11	CARBON 180 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 pièce portant le numéro spécifié.
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AMPLIFIER

AUDIO

Ref. No.	Part No.	Description	Remarks
R526	1-233-352-41	ENCAPSULATED COMPONENT	
R527	1-247-850-11	CARBON 6.2K 5%	1/4W
R528	1-249-419-11	CARBON 1.5K 5%	1/4W F
R529	1-247-866-11	CARBON 30K 5%	1/4W
R530	1-249-421-11	CARBON 2.2K 5%	1/4W F
R531	1-249-433-11	CARBON 22K 5%	1/4W
R532	1-249-437-11	CARBON 47K 5%	1/4W
△ R533	1-249-393-11	CARBON 10 5%	1/4W F
△ R534	1-249-389-11	CARBON 4.7 5%	1/4W F
R535	1-249-431-11	CARBON 15K 5%	1/4W
R539	1-249-427-11	CARBON 6.8K 5%	1/4W F
R540	1-249-417-11	CARBON 1K 5%	1/4W F
R541	1-249-429-11	CARBON 10K 5%	1/4W
R542	1-249-429-11	CARBON 10K 5%	1/4W
R547	1-249-425-11	CARBON 4.7K 5%	1/4W F
R548	1-249-429-11	CARBON 10K 5%	1/4W
△ R549	1-249-407-11	CARBON 150 5%	1/4W F
R555	1-247-881-00	CARBON 120K 5%	1/4W
R556	1-247-881-00	CARBON 120K 5%	1/4W
R571	1-249-422-11	CARBON 2.7K 5%	1/4W F
R572	1-249-433-11	CARBON 22K 5%	1/4W
R573	1-249-414-11	CARBON 560 5%	1/4W F
△ R574	1-249-408-11	CARBON 180 5%	1/4W F
△ R575	1-249-408-11	CARBON 180 5%	1/4W F
△ R576	1-233-352-41	ENCAPSULATED COMPONENT	
R577	1-247-850-11	CARBON 6.2K 5%	1/4W
R578	1-249-419-11	CARBON 1.5K 5%	1/4W F
R579	1-247-866-11	CARBON 30K 5%	1/4W
R580	1-249-421-11	CARBON 2.2K 5%	1/4W F
R581	1-249-433-11	CARBON 22K 5%	1/4W
R582	1-249-437-11	CARBON 47K 5%	1/4W
△ R583	1-249-393-11	CARBON 10 5%	1/4W F
△ R584	1-249-389-11	CARBON 4.7 5%	1/4W F
R585	1-249-431-11	CARBON 15K 5%	1/4W
R586	1-249-429-11	CARBON 10K 5%	1/4W
R587	1-249-425-11	CARBON 4.7K 5%	1/4W F
△ R588	1-249-393-11	CARBON 10 5%	1/4W F
△ R607	1-215-891-11	METAL OXIDE 680 5%	2W F
△ R607	1-216-456-00	METAL OXIDE 820 5%	(MY,SP,CH) 2W F
R621	1-249-422-11	CARBON 2.7K 5%	1/4W F
R622	1-249-441-11	CARBON 100K 5%	1/4W
R623	1-249-414-11	CARBON 560 5%	1/4W F
△ R624	1-249-408-11	CARBON 180 5%	1/4W F
△ R625	1-249-408-11	CARBON 180 5%	1/4W F
△ R626	1-233-352-41	ENCAPSULATED COMPONENT	
R627	1-247-850-11	CARBON 6.2K 5%	1/4W
R628	1-249-419-11	CARBON 1.5K 5%	1/4W F
R632	1-249-437-11	CARBON 47K 5%	1/4W
△ R633	1-249-393-11	CARBON 10 5%	1/4W F
△ R640	1-216-450-00	METAL OXIDE 82 5%	2W F
△ R640	1-215-886-11	METAL OXIDE 100 5%	2W F
R641	1-249-441-11	CARBON 100K 5%	1/4W
△ R642	1-215-888-00	METAL OXIDE 220 5%	2W F
R643	1-249-441-11	CARBON 100K 5%	1/4W
△ R644	1-216-456-00	METAL OXIDE 820 5%	2W F

Ref. No.	Part No.	Description	Remarks
R645	1-249-441-11	CARBON 100K 5%	1/4W
R650	1-249-425-11	CARBON 4.7K 5%	1/4W F
R657	1-249-429-11	CARBON 10K 5%	1/4W
△ R658	1-249-393-11	CARBON 10 5%	1/4W F
R672	1-249-433-11	CARBON 22K 5%	1/4W
R739	1-215-868-00	METAL OXIDE 680 5%	1W F
R789	1-215-868-00	METAL OXIDE 680 5%	1W F
R801	1-247-843-11	CARBON 3.3K 5%	1/4W
△ R802	1-249-401-11	CARBON 47 5%	1/4W F
△ RR48	1-249-393-11	CARBON 10 5%	1/4W F
△ RR49	1-249-393-11	CARBON 10 5%	1/4W F
△ RR98	1-249-393-11	CARBON 10 5%	1/4W F
△ RR99	1-249-393-11	CARBON 10 5%	1/4W F
< RELAY >			
RY501	1-515-920-11	RELAY (24V)	
RY502	1-515-920-11	RELAY (24V)	
RY602	1-515-793-11	RELAY	
< TERMINAL >			
TM501	1-537-922-11	TERMINAL BOARD (SPEAKERS) (US,CND,AUS)	
TM501	1-694-429-21	TERMINAL BOARD (SPEAKERS) (MY,SP,CH)	

*	1-670-001-11	AUDIO BOARD	

< CAPACITOR >			
C396	1-126-022-11	ELECT 47uF 20%	16V
C397	1-126-022-11	ELECT 47uF 20%	16V
C398	1-162-282-31	CERAMIC 100PF 10%	50V
C399	1-162-294-31	CERAMIC 0.001uF 10%	50V
CC08	1-162-282-31	CERAMIC 100PF 10%	50V
CC09	1-162-282-31	CERAMIC 100PF 10%	50V
CC10	1-162-282-31	CERAMIC 100PF 10%	50V
CC11	1-162-282-31	CERAMIC 100PF 10%	50V
CC12	1-162-282-31	CERAMIC 100PF 10%	50V
CC13	1-162-282-31	CERAMIC 100PF 10%	50V
CC58	1-162-282-31	CERAMIC 100PF 10%	50V
CC59	1-162-282-31	CERAMIC 100PF 10%	50V
CC60	1-162-282-31	CERAMIC 100PF 10%	50V
CC61	1-162-282-31	CERAMIC 100PF 10%	50V
CC62	1-162-282-31	CERAMIC 100PF 10%	50V
CC63	1-162-282-31	CERAMIC 100PF 10%	50V
< CONNECTOR >			
CNS351	1-784-729-11	CONNECTOR, FFC 7P	
< IC >			
IC303	8-759-805-14	IC LC7822	
< JACK >			
J304	1-784-920-11	JACK,PIN 6P(VIDEO1IN/OUT,VIDEO2 IN)	
J305	1-784-920-11	JACK,PIN 6P (VIDEO2OUT,DVD,DVD/LD,TV/DBS)	

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Ref. No.	Part No.	Description	Remarks			
< RESISTOR >						
R315	1-249-417-11	CARBON	1K	5%	1/4W	F
R316	1-249-417-11	CARBON	1K	5%	1/4W	F
R317	1-249-417-11	CARBON	1K	5%	1/4W	F
R318	1-249-417-11	CARBON	1K	5%	1/4W	F
R319	1-249-417-11	CARBON	1K	5%	1/4W	F
R320	1-249-417-11	CARBON	1K	5%	1/4W	F
R365	1-249-417-11	CARBON	1K	5%	1/4W	F
R366	1-249-417-11	CARBON	1K	5%	1/4W	F
R367	1-249-417-11	CARBON	1K	5%	1/4W	F
R368	1-249-417-11	CARBON	1K	5%	1/4W	F
R369	1-249-417-11	CARBON	1K	5%	1/4W	F
R370	1-249-417-11	CARBON	1K	5%	1/4W	F
R394	1-249-397-11	CARBON	22	5%	1/4W	F
R395	1-249-397-11	CARBON	22	5%	1/4W	F
R398	1-249-417-11	CARBON	1K	5%	1/4W	F
R399	1-249-425-11	CARBON	4.7K	5%	1/4W	F

*	1-670-029-11	D.IN/OUT BOARD				

< CAPACITOR >						
C1001	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1002	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1003	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1004	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1005	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1006	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1007	1-164-346-11	CERAMIC CHIP	1uF		16V	
C1008	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1009	1-104-664-11	ELECT	47uF	20%	16V	
< CONNECTOR >						
CNS13	1-564-723-11	PIN, CONNECTOR (SMALL TYPE) 7P				
< IC >						
IC1001	8-749-923-05	IC TORX178				
IC1002	8-749-923-05	IC TORX178				
IC1003	8-749-923-05	IC TORX178				
IC1004	8-749-923-04	IC TOTX178				
IC1005	8-759-236-19	IC TC74HC151AF(EL)				
IC1006	8-759-235-19	IC TC74HC08AF(EL)				
IC1007	8-759-242-70	IC TC7WU04F				
< JACK >						
J1001	1-779-382-11	JACK, PIN 1P (DVD/LD IN)				
< RESISTOR >						
R1001	1-216-022-00	METAL CHIP	75	5%	1/10W	
R1002	1-216-022-00	METAL CHIP	75	5%	1/10W	
R1003	1-216-022-00	METAL CHIP	75	5%	1/10W	
R1004	1-216-022-00	METAL CHIP	75	5%	1/10W	
R1005	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1006	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1007	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1008	1-216-022-00	METAL CHIP	75	5%	1/10W	
R1009	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1010	1-216-073-00	METAL CHIP	10K	5%	1/10W	

Ref. No.	Part No.	Description				Remarks
R1011	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1013	1-216-115-00	METAL CHIP	560K	5%	1/10W	

*	A-4414-126-A	DIGITAL BOARD, COMPLETE	*****			
< CAPACITOR >						
C1101	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V	
C1102	1-126-022-11	ELECT	47uF	20%	16V	
C1103	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1104	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1105	1-126-022-11	ELECT	47uF	20%	16V	
C1106	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1107	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C1108	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1109	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C1110	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C1111	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1112	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1113	1-126-059-11	ELECT	10uF	20%	50V	
C1114	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1115	1-126-059-11	ELECT	10uF	20%	50V	
C1116	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1117	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1118	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1119	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1120	1-126-059-11	ELECT	10uF	20%	50V	
C1121	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1122	1-126-233-11	ELECT	22uF	20%	50V	
C1123	1-106-347-00	MYLAR	1500PF	5%	200V	
C1124	1-126-233-11	ELECT	22uF	20%	50V	
C1125	1-126-233-11	ELECT	22uF	20%	50V	
C1126	1-126-233-11	ELECT	22uF	20%	50V	
C1127	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1128	1-126-233-11	ELECT	22uF	20%	50V	
C1129	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1130	1-126-233-11	ELECT	22uF	20%	50V	
C1131	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1132	1-126-233-11	ELECT	22uF	20%	50V	
C1133	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1134	1-126-233-11	ELECT	22uF	20%	50V	
C1135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1136	1-126-233-11	ELECT	22uF	20%	50V	
C1137	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1138	1-126-233-11	ELECT	22uF	20%	50V	
C1139	1-126-022-11	ELECT	47uF	20%	16V	
C1140	1-126-022-11	ELECT	47uF	20%	16V	
C1141	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1142	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1143	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1170	1-126-059-11	ELECT	10uF	20%	50V	
C1171	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C1172	1-126-233-11	ELECT	22uF	20%	50V	
C1173	1-106-347-00	MYLAR	1500PF	5%	200V	
C1174	1-126-233-11	ELECT	22uF	20%	50V	
C1175	1-126-233-11	ELECT	22uF	20%	50V	
C1176	1-126-233-11	ELECT	22uF	20%	50V	

DIGITAL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C1201	1-126-059-11	ELECT	10uF 20% 50V	D1203	8-719-801-78	DIODE 1SS184	
C1202	1-165-319-11	CERAMIC CHIP	0.1uF 50V	D1204	8-719-016-74	DIODE 1SS352	
C1203	1-165-319-11	CERAMIC CHIP	0.1uF 50V				
C1204	1-165-319-11	CERAMIC CHIP	0.1uF 50V	D1205	8-719-016-74	DIODE 1SS352	
C1205	1-165-319-11	CERAMIC CHIP	0.1uF 50V	D1206	8-719-801-78	DIODE 1SS184	
C1206	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V			< EARTH >	
C1207	1-165-319-11	CERAMIC CHIP	0.1uF 50V				
C1208	1-165-319-11	CERAMIC CHIP	0.1uF 50V	* EB1001	1-537-738-21	TERMINAL, EARTH	
C1209	1-165-319-11	CERAMIC CHIP	0.1uF 50V			< FERRITE BEAD >	
C1210	1-163-251-11	CERAMIC CHIP	100PF 5% 50V				
C1211	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	FB1101	1-410-397-21	FERRITE BEAD INDUCTOR	
C1212	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	FB1102	1-410-397-21	FERRITE BEAD INDUCTOR	
C1213	1-163-251-11	CERAMIC CHIP	100PF 5% 50V			< IC >	
C1214	1-163-251-11	CERAMIC CHIP	100PF 5% 50V				
C1215	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1101	8-759-294-79	IC CXD8495AQ	
C1216	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1102	8-759-523-80	IC TC74VHC04FT(EL)	
C1217	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1103	8-759-534-62	IC AK4526	
C1301	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1104	8-759-636-55	IC M5218AFP	
C1302	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1105	8-759-636-55	IC M5218AFP	
C1303	1-165-319-11	CERAMIC CHIP	0.1uF 50V				
C1304	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1106	8-759-636-55	IC M5218AFP	
C1305	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1107	8-759-636-55	IC M5218AFP	
C1306	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1108	8-759-032-01	IC MC74HC00AF	
C1307	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V	IC1109	8-759-195-02	IC TC7S86F-TE85L	
C1308	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1154	8-759-636-55	IC M5218AFP	
C1309	1-124-443-00	ELECT	100uF 20% 10V	IC1201	8-759-545-83	IC MB90574PFV-G-146-BND	
C1309	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1202	8-759-523-80	IC TC74VHC04FT(EL)	
C1310	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1301	8-759-534-61	IC CS4923	
C1311	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1305	8-759-530-30	IC TC74VHC04FT(EL)	
C1312	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1401	8-752-391-87	IC CXD2712R	
C1401	1-165-319-11	CERAMIC CHIP	0.1uF 50V				
C1402	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1402	8-759-538-16	IC IDT71V016S15PHAU-TL	
C1403	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V	IC1403	8-759-524-48	IC TC74VHC393FT(EL)	
C1404	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1501	8-759-231-53	IC TA7805S	
C1405	1-165-319-11	CERAMIC CHIP	0.1uF 50V			< TRANSISTOR >	
C1406	1-165-319-11	CERAMIC CHIP	0.1uF 50V	Q1201	8-729-216-22	TRANSISTOR 2SA1162-G	
C1407	1-165-319-11	CERAMIC CHIP	0.1uF 50V	Q1202	8-729-027-43	TRANSISTOR DTC114EKA-T146	
C1408	1-165-319-11	CERAMIC CHIP	0.1uF 50V	Q1203	8-729-230-49	TRANSISTOR 2SC2712-YG	
C1409	1-124-443-00	ELECT	100uF 20% 10V	Q1204	8-729-230-49	TRANSISTOR 2SC2712-YG	
C1410	1-165-319-11	CERAMIC CHIP	0.1uF 50V	Q1205	8-729-230-49	TRANSISTOR 2SC2712-YG	
C1411	1-165-319-11	CERAMIC CHIP	0.1uF 50V	Q1206	8-729-230-49	TRANSISTOR 2SC2712-YG	
C1412	1-165-319-11	CERAMIC CHIP	0.1uF 50V	Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG	
C1413	1-165-319-11	CERAMIC CHIP	0.1uF 50V	Q1208	8-729-027-43	TRANSISTOR DTC114EKA-T146	
C1501	1-126-012-11	ELECT	470uF 20% 16V			< RESISTOR >	
C1502	1-126-022-11	ELECT	47uF 20% 16V				
		< CONNECTOR >		R1101	1-216-025-91	RES,CHIP	100 5% 1/10W
CNP10	1-784-926-11	PIN, CONNECTOR 11P		R1102	1-216-025-91	RES,CHIP	100 5% 1/10W
CNP11	1-779-977-11	PIN, CONNECTOR 6P		R1103	1-216-025-91	RES,CHIP	100 5% 1/10W
CNP12	1-784-923-11	PIN, CONNECTOR 7P		R1104	1-216-085-00	METAL CHIP	33K 5% 1/10W
CNP14	1-779-978-11	PIN, CONNECTOR 3P		R1105	1-216-082-00	RES,CHIP	24K 5% 1/10W
CNP15	1-564-510-11	PLUG, CONNECTOR 7P					
CNS10	1-784-782-11	CONNECTOR, FFC 21P		R1106	1-216-066-00	METAL CHIP	5.1K 5% 1/10W
CNS11	1-784-790-11	CONNECTOR, FFC 29P		R1107	1-216-066-00	METAL CHIP	5.1K 5% 1/10W
		< DIODE >		R1108	1-216-029-00	METAL CHIP	150 5% 1/10W
D1101	8-719-016-74	DIODE 1SS352		R1109	1-216-104-00	METAL CHIP	200K 5% 1/10W
D1201	8-719-016-74	DIODE 1SS352		R1110	1-216-025-91	RES,CHIP	100 5% 1/10W
D1202	8-719-801-78	DIODE 1SS184		R1111	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R1112	1-216-025-91	RES,CHIP	100 5% 1/10W
				R1113	1-216-025-91	RES,CHIP	100 5% 1/10W
				R1114	1-216-025-91	RES,CHIP	100 5% 1/10W
				R1115	1-216-097-91	RES,CHIP	100K 5% 1/10W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R1116	1-216-025-91	RES,CHIP	100	5%	1/10W	R1203	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1117	1-216-025-91	RES,CHIP	100	5%	1/10W	R1204	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1118	1-216-097-91	RES,CHIP	100K	5%	1/10W	R1205	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1119	1-216-025-91	RES,CHIP	100	5%	1/10W	R1206	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1120	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1207	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1121	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1208	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1122	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1209	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1123	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1210	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1124	1-216-037-00	METAL CHIP	330	5%	1/10W	R1211	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1125	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1212	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1126	1-216-037-00	METAL CHIP	330	5%	1/10W	R1213	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1127	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1214	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1128	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1215	1-216-025-91	RES,CHIP	100	5%	1/10W
R1129	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1216	1-216-025-91	RES,CHIP	100	5%	1/10W
R1130	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1217	1-216-025-91	RES,CHIP	100	5%	1/10W
R1131	1-216-097-91	RES,CHIP	100K	5%	1/10W	R1218	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1132	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1219	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1133	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1220	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1134	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1221	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1135	1-216-025-91	RES,CHIP	100	5%	1/10W	R1222	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1136	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1223	1-216-104-00	METAL CHIP	200K	5%	1/10W
R1137	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1224	1-216-295-91	SHORT	0		
R1138	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1225	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1139	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1226	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1140	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1227	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1141	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1228	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1142	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1229	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1143	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1230	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1144	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1231	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1145	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1232	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1146	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1233	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1147	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1234	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1148	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1235	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1149	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1236	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1150	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1237	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1151	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1238	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1152	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1239	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1153	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1240	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1154	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1241	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1155	1-216-295-91	SHORT	0			R1242	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1156	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1243	1-216-025-91	RES,CHIP	100	5%	1/10W
R1157	1-216-295-91	SHORT	0			R1244	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1158	1-216-025-91	RES,CHIP	100	5%	1/10W	R1245	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1159	1-216-025-91	RES,CHIP	100	5%	1/10W	R1246	1-216-025-91	RES,CHIP	100	5%	1/10W
R1160	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1247	1-216-025-91	RES,CHIP	100	5%	1/10W
R1165	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1248	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1166	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1249	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1170	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1250	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1171	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1251	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1172	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1252	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1173	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1253	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1174	1-216-037-00	METAL CHIP	330	5%	1/10W	R1254	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1175	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1255	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1176	1-216-037-00	METAL CHIP	330	5%	1/10W	R1256	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1177	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1257	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1178	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1258	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1179	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1259	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1180	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1260	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1201	1-216-097-91	RES,CHIP	100K	5%	1/10W	R1261	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1202	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1262	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

DIGITAL

DISPLAY

Ref. No.	Part No.	Description			Remarks
R1263	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1264	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1265	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1266	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1267	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1268	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1269	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1270	1-216-025-91	RES,CHIP	100	5%	1/10W
R1271	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1272	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1273	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1274	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1275	1-216-025-91	RES,CHIP	100	5%	1/10W
R1276	1-216-025-91	RES,CHIP	100	5%	1/10W
R1277	1-216-025-91	RES,CHIP	100	5%	1/10W
R1278	1-216-025-91	RES,CHIP	100	5%	1/10W
R1279	1-216-025-91	RES,CHIP	100	5%	1/10W
R1280	1-216-025-91	RES,CHIP	100	5%	1/10W
R1281	1-216-295-91	SHORT	0		
R1282	1-216-295-91	SHORT	0		
R1283	1-216-295-91	SHORT	0		
R1285	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1286	1-216-025-91	RES,CHIP	100	5%	1/10W
R1287	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1301	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1302	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1303	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1304	1-216-025-91	RES,CHIP	100	5%	1/10W
R1305	1-216-025-91	RES,CHIP	100	5%	1/10W
R1306	1-216-041-00	METAL CHIP	470	5%	1/10W
R1307	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1308	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R1309	1-216-025-91	RES,CHIP	100	5%	1/10W
R1310	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1311	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R1312	1-216-025-91	RES,CHIP	100	5%	1/10W
R1313	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R1314	1-216-295-91	SHORT	0		
R1315	1-216-295-91	SHORT	0		
R1316	1-216-295-91	SHORT	0		
R1317	1-216-295-91	SHORT	0		
R1318	1-216-295-91	SHORT	0		
△R1319	1-215-884-11	METAL OXIDE	47	5%	2W F
R1320	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1321	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1322	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1323	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1324	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1325	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1326	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1327	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1328	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1329	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1330	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1401	1-216-025-91	RES,CHIP	100	5%	1/10W
R1402	1-216-025-91	RES,CHIP	100	5%	1/10W
R1403	1-216-025-91	RES,CHIP	100	5%	1/10W
R1404	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1405	1-216-025-91	RES,CHIP	100	5%	1/10W
R1406	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1407	1-216-295-91	SHORT	0		
R1408	1-216-025-91	RES,CHIP	100	5%	1/10W
R1409	1-216-025-91	RES,CHIP	100	5%	1/10W
R1410	1-216-295-91	SHORT	0		
< VIBRATOR >					
X1101	1-567-970-11	VIBRATOR, CRYSTAL 24.576MHz			
X1201	1-577-082-11	VIBRATOR, CERAMIC 4MHz			
X1301	1-767-949-21	VIBRATOR, CERAMIC 49.152MHz			

*	A-4414-122-A	DISPLAY BOARD, COMPLETE (US,CND)			

*	A-4414-136-A	DISPLAY BOARD, COMPLETE (MY,SP)			

*	A-4414-132-A	DISPLAY BOARD, COMPLETE (AUS)			

*	A-4414-140-A	DISPLAY BOARD, COMPLETE (CH)			

(including L.B BOARD)					
*	4-921-941-01	CUSHION (FL)			
*	4-990-797-01	HOLDER (FL)			
< CAPACITOR >					
C101	1-104-664-11	ELECT	47uF	20%	16V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-104-905-11	CAPACITOR	0.22F		5.5V
C106	1-164-159-11	CERAMIC	0.1uF		50V
C107	1-164-159-11	CERAMIC	0.1uF		50V
C108	1-164-159-11	CERAMIC	0.1uF		50V
C109	1-164-159-11	CERAMIC	0.1uF		50V
C110	1-164-159-11	CERAMIC	0.1uF		50V
C111	1-164-159-11	CERAMIC	0.1uF		50V
C112	1-164-159-11	CERAMIC	0.1uF		50V
C113	1-164-159-11	CERAMIC	0.1uF		50V
C117	1-164-159-11	CERAMIC	0.1uF		50V
C118	1-164-159-11	CERAMIC	0.1uF		50V
C119	1-104-664-11	ELECT	47uF	20%	16V
C120	1-164-159-11	CERAMIC	0.1uF		50V
C121	1-104-664-11	ELECT	47uF	20%	16V
C122	1-164-159-11	CERAMIC	0.1uF		50V
C123	1-164-159-11	CERAMIC	0.1uF		50V
C124	1-162-294-31	CERAMIC	0.001uF	10%	50V
C180	1-164-159-11	CERAMIC	0.1uF		50V
C181	1-136-177-00	CERAMIC	1uF	5%	50V
C182	1-164-159-11	CERAMIC	0.1uF		50V
C183	1-126-916-11	ELECT	1000uF	20%	6.3V
C184	1-126-964-11	ELECT	10uF	20%	50V
C185	1-162-306-11	CERAMIC	0.01uF	20%	16V
C186	1-162-306-11	CERAMIC	0.01uF	20%	16V
CC20	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
CNP105	1-564-510-11	PLUG, CONNECTOR 7P			
CNP106	1-784-919-11	CONNECTOR, PC BOARD (PLUG) 5P			
CNP113	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNP114	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNP115	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			

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	Remarks	Ref. No.	Part No.	Description	Remarks
CNP116	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P		Q181	8-729-900-36	TRANSISTOR DTC124ES	
CNS103	1-784-772-11	CONNECTOR, FFC 11P (MY,SP,AUS,CH)		Q182	8-729-620-05	TRANSISTOR 2SC2603-EF	
CNS103	1-784-776-11	CONNECTOR, FFC 15P (US,CND)		Q183	8-729-801-93	TRANSISTOR 2SD1387	
CNS104	1-784-743-11	CONNECTOR, FFC 21P		Q184	8-729-801-93	TRANSISTOR 2SD1387	
CNS107	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P		< RESISTOR >			
< DIODE >				R101	1-249-411-11	CARBON 330 5%	1/4W
D101	8-719-313-45	DIODE SEL6810A-TH10		R102	1-249-411-11	CARBON 330 5%	1/4W
D102	8-719-024-99	DIODE 11ES2-NTA2B		R103	1-249-437-11	CARBON 47K 5%	1/4W
D103	8-719-911-19	DIODE 1SS119		R104	1-247-772-00	CARBON 3.6 5%	1/4W
D104	8-719-046-39	DIODE SEL5821A-TH15		R105	1-249-393-11	CARBON 10 5%	1/4W F
D105	8-719-046-39	DIODE SEL5821A-TH15		R106	1-249-437-11	CARBON 47K 5%	1/4W
D106	8-719-046-39	DIODE SEL5821A-TH15		R107	1-249-433-11	CARBON 22K 5%	1/4W
D108	8-719-046-39	DIODE SEL5821A-TH15		R110	1-249-419-11	CARBON 1.5K 5%	1/4W F
D119	8-719-046-39	DIODE SEL5821A-TH15		R111	1-247-807-31	CARBON 100 5%	1/4W
D122	8-719-046-39	DIODE SEL5821A-TH15		R112	1-247-807-31	CARBON 100 5%	1/4W
D180	8-719-911-19	DIODE 1SS119		R113	1-247-807-31	CARBON 100 5%	1/4W
D181	8-719-911-19	DIODE 1SS119		R114	1-247-807-31	CARBON 100 5%	1/4W
D182	8-719-911-19	DIODE 1SS119		△ R115	1-249-385-11	CARBON 2.2 5%	1/6W F
D183	8-719-911-19	DIODE 1SS119		R116	1-249-429-11	CARBON 10K 5%	1/4W
D184	8-719-059-14	DIODE SID313BP-TP19		R117	1-249-433-11	CARBON 22K 5%	1/4W
D185	8-719-059-14	DIODE SID313BP-TP19		R118	1-249-433-11	CARBON 22K 5%	1/4W
D186	8-719-059-14	DIODE SID313BP-TP19		R119	1-249-417-11	CARBON 1K 5%	1/4W F
< FILTER >				R120	1-249-417-11	CARBON 1K 5%	1/4W F
FL101	1-517-781-11	INDICATOR TUBE, FLUORESCENT		R121	1-249-417-11	CARBON 1K 5%	1/4W F
< IC >				R122	1-249-429-11	CARBON 10K 5%	1/4W
IC101	8-759-459-83	IC NJL55H400A (REMOTE SENSOR)		R123	1-249-417-11	CARBON 1K 5%	1/4W F
IC102	8-759-535-50	IC MB90553PF-G-121-BND		R124	1-249-411-11	CARBON 330 5%	1/4W
IC103	8-759-962-08	IC BA6208		R125	1-249-425-11	CARBON 4.7K 5%	1/4W F
IC104	8-759-463-11	IC MSC1162AGS-BK		R126	1-249-425-11	CARBON 4.7K 5%	1/4W F
IC105	8-759-389-51	IC MSC1164GS-KR1		R127	1-249-425-11	CARBON 4.7K 5%	1/4W F
IC180	8-759-927-72	IC TL1591CP		R128	1-249-425-11	CARBON 4.7K 5%	1/4W F
IC181	8-759-545-07	IC TMP87C447U-4A06		R129	1-249-417-11	CARBON 1K 5%	1/4W F
< COIL >				R130	1-249-425-11	CARBON 4.7K 5%	1/4W F
L101	1-410-509-11	INDUCTOR 10uH		R131	1-249-425-11	CARBON 4.7K 5%	1/4W F
L150	1-408-080-00	INDUCTOR 100uH		R132	1-249-425-11	CARBON 4.7K 5%	1/4W F
< TRANSISTOR >				R133	1-249-411-11	CARBON 330 5%	1/4W
Q101	8-729-119-76	TRANSISTOR 2SA1175-HFE		R134	1-249-411-11	CARBON 330 5%	1/4W
Q102	8-729-900-36	TRANSISTOR DTC124ES		R135	1-249-411-11	CARBON 330 5%	1/4W
Q103	8-729-900-36	TRANSISTOR DTC124ES		△ R161	1-249-385-11	CARBON 2.2 5%	1/6W F
Q104	8-729-900-36	TRANSISTOR DTC124ES		R162	1-249-421-11	CARBON 2.2K 5%	1/4W F
Q105	8-729-900-36	TRANSISTOR DTC124ES		R163	1-249-421-11	CARBON 2.2K 5%	1/4W F
Q106	8-729-900-36	TRANSISTOR DTC124ES		R164	1-249-411-11	CARBON 330 5%	1/4W
Q107	8-729-900-36	TRANSISTOR DTC124ES		R165	1-249-429-11	CARBON 10K 5%	1/4W
Q108	8-729-900-36	TRANSISTOR DTC124ES		R166	1-249-411-11	CARBON 330 5%	1/4W
Q109	8-729-900-36	TRANSISTOR DTC124ES		R167	1-249-413-11	CARBON 470 5%	1/4W F
Q110	8-729-900-36	TRANSISTOR DTC124ES		R168	1-249-415-11	CARBON 680 5%	1/4W F
Q112	8-729-900-36	TRANSISTOR DTC124ES		R169	1-249-417-11	CARBON 1K 5%	1/4W F
Q113	8-729-900-36	TRANSISTOR DTC124ES		R170	1-249-419-11	CARBON 1.5K 5%	1/4W F
Q114	8-729-900-36	TRANSISTOR DTC124ES		R171	1-249-425-11	CARBON 4.7K 5%	1/4W F
Q116	8-729-900-36	TRANSISTOR DTC124ES		R172	1-249-421-11	CARBON 2.2K 5%	1/4W F
Q117	8-729-900-36	TRANSISTOR DTC124ES		R175	1-249-415-11	CARBON 680 5%	1/4W F
Q118	8-729-900-36	TRANSISTOR DTC124ES		R176	1-249-413-11	CARBON 470 5%	1/4W F
Q119	8-729-900-36	TRANSISTOR DTC124ES		R177	1-249-411-11	CARBON 330 5%	1/4W
Q120	8-729-900-36	TRANSISTOR DTC124ES		R178	1-249-417-11	CARBON 1K 5%	1/4W F
Q122	8-729-900-36	TRANSISTOR DTC124ES		R179	1-249-411-11	CARBON 330 5%	1/4W
Q180	8-729-620-05	TRANSISTOR 2SC2603-EF					

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.

DISPLAY	H.P	INPUT
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Ref. No.	Part No.	Description	Remarks
R180	1-249-393-11	CARBON 10 5%	1/4W F
R181	1-249-429-11	CARBON 10K 5%	1/4W
R182	1-249-425-11	CARBON 4.7K 5%	1/4W F
R183	1-249-429-11	CARBON 10K 5%	1/4W
R184	1-249-429-11	CARBON 10K 5%	1/4W
R185	1-249-425-11	CARBON 4.7K 5%	1/4W F
R186	1-249-429-11	CARBON 10K 5%	1/4W
R187	1-249-383-11	CARBON 1.5 5%	1/6W F
R188	1-249-429-11	CARBON 10K 5%	1/4W
R189	1-247-772-00	CARBON 3.6 5%	1/4W
R190	1-249-441-11	CARBON 100K 5%	1/4W
R191	1-247-807-31	CARBON 100 5%	1/4W
R192	1-249-383-11	CARBON 1.5 5%	1/6W F
R193	1-247-807-31	CARBON 100 5%	1/4W
R194	1-247-807-31	CARBON 100 5%	1/4W
R195	1-247-807-31	CARBON 100 5%	1/4W
R196	1-247-807-31	CARBON 100 5%	1/4W
R197	1-249-441-11	CARBON 100K 5%	1/4W
R198	1-249-429-11	CARBON 10K 5%	1/4W
R199	1-249-429-11	CARBON 10K 5%	1/4W
RR10	1-249-425-11	CARBON 4.7K 5%	1/4W F
RR11	1-249-411-11	CARBON 330 5%	1/4W (MY,SP,CH)
RR12	1-249-413-11	CARBON 470 5%	1/4W F (MY,SP,CH)
RR13	1-249-415-11	CARBON 680 5%	1/4W F (CH)
RR20	1-249-425-11	CARBON 4.7K 5%	1/4W F
RRR1	1-249-417-11	CARBON 1K 5%	1/4W F
RRR4	1-249-417-11	CARBON 1K 5%	1/4W F (MY,SP,AUS,CH)
< SWITCH >			
S102	1-762-750-11	SWITCH, TACTILE (MUTING)	
S131	1-762-750-11	SWITCH, TACTILE (POWER)	
S132	1-762-750-11	SWITCH, TACTILE (DISP)	
S133	1-762-750-11	SWITCH, TACTILE (PRE+)	
S135	1-762-750-11	SWITCH, TACTILE (LEFT)	
S136	1-762-750-11	SWITCH, TACTILE (UP)	
S137	1-762-750-11	SWITCH, TACTILE (RIGHT)	
S138	1-762-750-11	SWITCH, TACTILE (FM/AM)	
S139	1-762-750-11	SWITCH, TACTILE (FM MODE)	
S142	1-762-750-11	SWITCH, TACTILE (MEMORY)	
S143	1-762-750-11	SWITCH, TACTILE (SLEEP)	
S144	1-762-750-11	SWITCH, TACTILE (TUN+)	
S145	1-762-750-11	SWITCH, TACTILE (TUN-)	
S146	1-762-750-11	SWITCH, TACTILE (PRE-)	
S147	1-762-750-11	SWITCH, TACTILE (DOWN)	
< VIBRATOR >			
X101	1-577-082-11	VIBRATOR, CERAMIC 4MHz	
X180	1-767-938-21	VIBRATOR, CERAMIC 7.28MHz	

*	1-670-006-11	H.P BOARD	*****
< JACK >			
J701	1-568-519-41	JACK, LARGE TYPE (PHONES)	

Ref. No.	Part No.	Description	Remarks
*	A-4414-121-A	INPUT BOARD, COMPLETE (US,CND,AUS)	*****
*	A-4414-135-A	INPUT BOARD, COMPLETE (MY,SP)	*****
*	A-4414-139-A	INPUT BOARD, COMPLETE (CH)	*****
	7-685-872-09	SCREW +BVTT 3X8 (S)	
< CAPACITOR >			
C301	1-126-045-11	ELECT 2.2uF 20%	50V
C303	1-126-101-11	ELECT 100uF 20%	16V
C304	1-125-896-91	MYLAR 0.0091uF 5%	50V
C305	1-136-159-00	FILM 0.033uF 5%	50V
C306	1-126-045-11	ELECT 2.2uF 20%	50V
C307	1-162-282-31	CERAMIC 100PF 10%	50V
C308	1-162-286-31	CERAMIC 220PF 10%	50V
C310	1-162-294-31	CERAMIC 0.001uF 10%	50V
C311	1-126-233-11	ELECT 22uF 20%	50V
C351	1-126-045-11	ELECT 2.2uF 20%	50V
C353	1-126-101-11	ELECT 100uF 20%	16V
C354	1-125-896-91	MYLAR 0.0091uF 5%	50V
C355	1-136-159-00	FILM 0.033uF 5%	50V
C356	1-126-045-11	ELECT 2.2uF 20%	50V
C357	1-162-282-31	CERAMIC 100PF 10%	50V
C358	1-162-286-31	CERAMIC 220PF 10%	50V
C360	1-162-294-31	CERAMIC 0.001uF 10%	50V
C361	1-126-233-11	ELECT 22uF 20%	50V
C388	1-126-052-11	ELECT 100uF 20%	16V
C389	1-126-052-11	ELECT 100uF 20%	16V
C392	1-126-022-11	ELECT 47uF 20%	16V
C393	1-162-294-31	CERAMIC 0.001uF 10%	50V
C394	1-126-022-11	ELECT 47uF 20%	16V
C395	1-162-282-31	CERAMIC 100PF 10%	50V
C401	1-126-233-11	ELECT 22uF 20%	50V
C402	1-126-233-11	ELECT 22uF 20%	50V
C403	1-126-233-11	ELECT 22uF 20%	50V
C404	1-162-199-31	CERAMIC 10PF 5%	50V
C405	1-162-199-31	CERAMIC 10PF 5%	50V
C406	1-162-199-31	CERAMIC 10PF 5%	50V
C407	1-126-233-11	ELECT 22uF 20%	50V
C408	1-126-233-11	ELECT 22uF 20%	50V
C409	1-126-233-11	ELECT 22uF 20%	50V
C416	1-126-233-11	ELECT 22uF 20%	50V
C417	1-126-233-11	ELECT 22uF 20%	50V
C418	1-126-233-11	ELECT 22uF 20%	50V
C419	1-162-282-31	CERAMIC 100PF 10%	50V
C451	1-126-233-11	ELECT 22uF 20%	50V
C452	1-126-233-11	ELECT 22uF 20%	50V
C453	1-126-233-11	ELECT 22uF 20%	50V
C454	1-162-199-31	CERAMIC 10PF 5%	50V
C455	1-162-199-31	CERAMIC 10PF 5%	50V
C456	1-162-199-31	CERAMIC 10PF 5%	50V
C457	1-126-233-11	ELECT 22uF 20%	50V
C458	1-126-233-11	ELECT 22uF 20%	50V
C459	1-126-233-11	ELECT 22uF 20%	50V
C466	1-126-233-11	ELECT 22uF 20%	50V
C467	1-126-233-11	ELECT 22uF 20%	50V
C468	1-126-233-11	ELECT 22uF 20%	50V
C491	1-164-159-11	CERAMIC 0.1uF	50V

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C496	1-126-052-11	ELECT	100uF	20%	16V	< DIODE >					
C497	1-126-052-11	ELECT	100uF	20%	16V	D301	8-719-911-19	DIODE 1SS119			
C498	1-126-022-11	ELECT	47uF	20%	16V				< IC >		
C499	1-126-022-11	ELECT	47uF	20%	16V	IC301	8-759-805-14	IC LC7822			
C501	1-126-233-11	ELECT	22uF	20%	50V	IC302	8-759-636-74	IC M5218AP-22			
C502	1-162-282-31	CERAMIC	100PF	10%	50V	IC304	8-759-634-50	IC M5218AL			
C503	1-102-233-00	CERAMIC	33PF	10%	500V	IC401	8-759-604-40	IC M5F78M15			
C504	1-102-230-00	CERAMIC	4PF	0.25PF	500V	IC402	8-759-604-46	IC M5F79M15			
C505	1-126-101-11	ELECT	100uF	20%	16V	IC403	8-759-604-39	IC M5F78M12			
C539	1-162-282-31	CERAMIC	100PF	10%	50V	IC404	8-759-708-05	IC NJM78L05A			
C551	1-126-233-11	ELECT	22uF	20%	50V	IC405	8-759-634-50	IC M5218AL			
C552	1-162-282-31	CERAMIC	100PF	10%	50V	IC406	8-759-634-50	IC M5218AL			
C553	1-102-233-00	CERAMIC	33PF	10%	500V	IC407	8-759-634-50	IC M5218AL			
C554	1-102-230-00	CERAMIC	4PF	0.25PF	500V	IC414	8-759-534-63	IC TC9299P			
C555	1-126-101-11	ELECT	100uF	20%	16V	IC415	8-759-534-63	IC TC9299P			
C580	1-162-282-31	CERAMIC	100PF	10%	50V	IC416	8-759-534-63	IC TC9299P			
C589	1-162-282-31	CERAMIC	100PF	10%	50V	IC501	8-759-326-52	IC uPC2581V			
C593	1-126-101-11	ELECT	100uF	20%	16V	IC601	8-759-326-52	IC uPC2581V			
C594	1-126-074-91	ELECT	22uF	20%	100V	< JACK >					
C595	1-126-074-91	ELECT	22uF	20%	100V	J301	1-784-429-11	JACK, PIN 4P (PHONO/CD)			
C601	1-126-233-11	ELECT	22uF	20%	50V	J302	1-784-429-11	JACK, PIN 4P (MD/DAT)			
C602	1-162-282-31	CERAMIC	100PF	10%	50V	< TRANSISTOR >					
C603	1-102-233-00	CERAMIC	33PF	10%	500V	Q301	8-729-119-79	TRANSISTOR 2SC2785-FEK			
C604	1-102-230-00	CERAMIC	4PF	0.25PF	500V	Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK			
C605	1-126-101-11	ELECT	100uF	20%	16V	Q303	8-729-141-30	TRANSISTOR 2SC3623A-LK			
C639	1-162-282-31	CERAMIC	100PF	10%	50V	Q304	8-729-141-30	TRANSISTOR 2SC3623A-LK			
C651	1-126-233-11	ELECT	22uF	20%	50V	Q352	8-729-141-30	TRANSISTOR 2SC3623A-LK			
C652	1-162-282-31	CERAMIC	100PF	10%	50V	Q353	8-729-141-30	TRANSISTOR 2SC3623A-LK			
C653	1-102-233-00	CERAMIC	33PF	10%	500V	Q354	8-729-141-30	TRANSISTOR 2SC3623A-LK			
C654	1-102-230-00	CERAMIC	4PF	0.25PF	500V	Q501	8-729-900-36	TRANSISTOR DTC124ES			
C655	1-126-101-11	ELECT	100uF	20%	16V	Q503	8-729-900-63	TRANSISTOR DTA124ES			
C689	1-162-282-31	CERAMIC	100PF	10%	50V	Q614	8-729-201-53	TRANSISTOR 2SA1015-GR			
C701	1-126-233-11	ELECT	22uF	20%	50V	< RESISTOR >					
C702	1-162-282-31	CERAMIC	100PF	10%	50V	R301	1-249-401-11	CARBON 47	5%	1/4W	F
C703	1-102-233-00	CERAMIC	33PF	10%	500V	R302	1-249-441-11	CARBON 100K	5%	1/4W	
C704	1-102-230-00	CERAMIC	4PF	0.25PF	500V	R303	1-249-440-11	CARBON 82K	5%	1/4W	
C705	1-126-101-11	ELECT	100uF	20%	16V	R304	1-249-408-11	CARBON 180	5%	1/4W	F
C739	1-162-282-31	CERAMIC	100PF	10%	50V	R305	1-249-428-11	CARBON 8.2K	5%	1/4W	F
C751	1-126-233-11	ELECT	22uF	20%	50V	R306	1-249-441-11	CARBON 100K	5%	1/4W	
C752	1-162-282-31	CERAMIC	100PF	10%	50V	R307	1-247-807-31	CARBON 100	5%	1/4W	
C753	1-102-233-00	CERAMIC	33PF	10%	500V	R308	1-249-441-11	CARBON 100K	5%	1/4W	
C754	1-102-230-00	CERAMIC	4PF	0.25PF	500V	R309	1-249-413-11	CARBON 470	5%	1/4W	F
C755	1-126-101-11	ELECT	100uF	20%	16V	R310	1-249-417-11	CARBON 1K	5%	1/4W	F
C780	1-162-282-31	CERAMIC	100PF	10%	50V	R311	1-249-417-11	CARBON 1K	5%	1/4W	F
C789	1-162-282-31	CERAMIC	100PF	10%	50V	R312	1-249-417-11	CARBON 1K	5%	1/4W	F
CC04	1-162-282-31	CERAMIC	100PF	10%	50V	R315	1-249-437-11	CARBON 47K	5%	1/4W	
CC05	1-162-282-31	CERAMIC	100PF	10%	50V	R335	1-249-437-11	CARBON 47K	5%	1/4W	
CC06	1-162-282-31	CERAMIC	100PF	10%	50V	R336	1-249-425-11	CARBON 4.7K	5%	1/4W	F
CC54	1-162-282-31	CERAMIC	100PF	10%	50V	R331	1-249-441-11	CARBON 100K	5%	1/4W	F
CC55	1-162-282-31	CERAMIC	100PF	10%	50V	R337	1-249-441-11	CARBON 100K	5%	1/4W	
CC56	1-162-282-31	CERAMIC	100PF	10%	50V	R338	1-249-417-11	CARBON 1K	5%	1/4W	F
< CONNECOR >						R339	1-249-417-11	CARBON 1K	5%	1/4W	F
CNS301	1-784-768-11	CONNECTOR, FFC 7P				R340	1-249-417-11	CARBON 1K	5%	1/4W	F
CNS306	1-784-790-11	CONNECTOR, FFC 29P									
CNS403	1-691-765-11	PLUG (MICRO CONNECTOR) 3P									
CNS404	1-691-765-11	PLUG (MICRO CONNECTOR) 3P									
CNS501	1-784-806-11	HOUSING,CONNECTOR(PC BOARD)13P									
CNS702	1-779-977-11	PIN, CONNECTOR 6P									

INPUT	JOINT	LED	REAR AMP
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Ref. No.	Part No.	Description			Remarks
R341	1-249-417-11	CARBON	1K	5%	1/4W F
R342	1-249-417-11	CARBON	1K	5%	1/4W F
R343	1-249-417-11	CARBON	1K	5%	1/4W F
R344	1-247-807-31	CARBON	100	5%	1/4W
R345	1-247-807-31	CARBON	100	5%	1/4W
R346	1-249-397-11	CARBON	22	5%	1/4W F
R347	1-249-397-11	CARBON	22	5%	1/4W F
R351	1-249-401-11	CARBON	47	5%	1/4W F
R352	1-249-441-11	CARBON	100K	5%	1/4W
R353	1-249-440-11	CARBON	82K	5%	1/4W
R354	1-249-408-11	CARBON	180	5%	1/4W F
R355	1-249-428-11	CARBON	8.2K	5%	1/4W F
R356	1-249-441-11	CARBON	100K	5%	1/4W
R357	1-247-807-31	CARBON	100	5%	1/4W
R358	1-249-441-11	CARBON	100K	5%	1/4W
R359	1-249-413-11	CARBON	470	5%	1/4W F
R360	1-249-417-11	CARBON	1K	5%	1/4W F
R361	1-249-417-11	CARBON	1K	5%	1/4W F
R362	1-249-417-11	CARBON	1K	5%	1/4W F
R365	1-249-437-11	CARBON	47K	5%	1/4W
R381	1-249-441-11	CARBON	100K	5%	1/4W
R385	1-249-437-11	CARBON	47K	5%	1/4W
△ R387	1-249-410-11	CARBON	270	5%	1/4W F
R388	1-249-417-11	CARBON	1K	5%	1/4W F
R389	1-249-417-11	CARBON	1K	5%	1/4W F
R390	1-249-417-11	CARBON	1K	5%	1/4W F
R391	1-249-417-11	CARBON	1K	5%	1/4W F
R392	1-249-417-11	CARBON	1K	5%	1/4W F
R393	1-249-417-11	CARBON	1K	5%	1/4W F
R396	1-249-417-11	CARBON	1K	5%	1/4W F
R397	1-249-425-11	CARBON	4.7K	5%	1/4W F
R401	1-249-441-11	CARBON	100K	5%	1/4W
R402	1-249-441-11	CARBON	100K	5%	1/4W
R403	1-249-441-11	CARBON	100K	5%	1/4W
R404	1-249-431-11	CARBON	15K	5%	1/4W
R405	1-249-431-11	CARBON	15K	5%	1/4W
R406	1-249-431-11	CARBON	15K	5%	1/4W
R407	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-249-437-11	CARBON	47K	5%	1/4W
R409	1-249-437-11	CARBON	47K	5%	1/4W
R451	1-249-441-11	CARBON	100K	5%	1/4W
R452	1-249-441-11	CARBON	100K	5%	1/4W
R453	1-249-441-11	CARBON	100K	5%	1/4W
R454	1-249-431-11	CARBON	15K	5%	1/4W
R455	1-249-431-11	CARBON	15K	5%	1/4W
R456	1-249-434-11	CARBON	27K	5%	1/4W
R457	1-249-437-11	CARBON	47K	5%	1/4W
R458	1-249-437-11	CARBON	47K	5%	1/4W
R459	1-249-437-11	CARBON	47K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-439-11	CARBON	68K	5%	1/4W
R503	1-249-439-11	CARBON	68K	5%	1/4W
R504	1-249-421-11	CARBON	2.2K	5%	1/4W F
R505	1-249-437-11	CARBON	47K	5%	1/4W
R551	1-249-417-11	CARBON	1K	5%	1/4W F
R552	1-249-439-11	CARBON	68K	5%	1/4W
R553	1-249-439-11	CARBON	68K	5%	1/4W
R554	1-249-421-11	CARBON	2.2K	5%	1/4W F
R590	1-249-433-11	CARBON	22K	5%	1/4W
△ R592	1-249-381-11	CARBON	1	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
△ R593	1-249-381-11	CARBON	1	5%	1/4W F
R594	1-249-425-11	CARBON	4.7K	5%	1/4W F
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-439-11	CARBON	68K	5%	1/4W
R604	1-249-421-11	CARBON	2.2K	5%	1/4W F
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-439-11	CARBON	68K	5%	1/4W
R654	1-247-843-11	CARBON	3.3K	5%	1/4W
R655	1-249-409-11	CARBON	220	5%	1/4W F
R656	1-249-409-11	CARBON	220	5%	1/4W F
R690	1-249-433-11	CARBON	22K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-439-11	CARBON	68K	5%	1/4W
R704	1-249-421-11	CARBON	2.2K	5%	1/4W F
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-439-11	CARBON	68K	5%	1/4W
R754	1-249-421-11	CARBON	2.2K	5%	1/4W F
R790	1-249-433-11	CARBON	22K	5%	1/4W
< RELAY >					
RY301	1-515-614-11	RELAY			

*	1-670-027-11	JOINT BOARD			

< CONNECTOR >					
CNP501	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			
CNP651	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			

*	1-670-007-11	LED BOARD			

< DIODE >					
D100	8-719-070-83	DIODE SELU5E20C-TP15			

*	A-4414-112-A	REAR AMP BOARD, COMPLETE			

< CAPACITOR >					
C720	1-126-022-11	ELECT	47uF	20%	16V
C721	1-107-597-11	CERAMIC	22PF	10%	500V
C722	1-107-597-11	CERAMIC	22PF	10%	500V
C723	1-162-286-31	CERAMIC	220PF	10%	50V
C725	1-136-157-00	FILM	0.022uF	5%	50V
C770	1-126-022-11	ELECT	47uF	20%	16V
C771	1-107-597-11	CERAMIC	22PF	10%	500V
C772	1-107-597-11	CERAMIC	22PF	10%	500V
C773	1-162-286-31	CERAMIC	220PF	10%	50V
C775	1-136-157-00	FILM	0.022uF	5%	50V

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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< CONNECTOR >				C824	1-126-937-11	ELECT 4700uF 20%	16V
* CNP701	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P		C825	1-126-935-11	ELECT 470uF 20%	16V
CNP711	1-779-977-11	PIN, CONNECTOR 6P		C826	1-126-935-11	ELECT 470uF 20%	16V
* CNP712	1-564-242-00	PIN, CONNECTOR 5P		C827	1-126-935-11	ELECT 470uF 20%	16V
CNP713	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		C901	1-164-097-11	CERAMIC 0.022uF	50V
< DIODE >				C902	1-164-097-11	CERAMIC 0.022uF	50V
D701	8-719-911-19	DIODE 1SS119		C903	1-126-768-11	ELECT 2200uF 20%	16V
D702	8-719-109-51	DIODE RD2.0ES-B2		C904	1-126-960-11	ELECT 1uF 20%	50V
D703	8-719-109-51	DIODE RD2.0ES-B2		C905	1-126-959-11	ELECT 0.47uF 20%	50V
D704	8-719-911-19	DIODE 1SS119		C906	1-124-464-11	ELECT 0.22uF 20%	50V
D751	8-719-911-19	DIODE 1SS119		C911	1-164-159-11	CERAMIC 0.1uF	50V
D752	8-719-109-51	DIODE RD2.0ES-B2		C914	1-164-159-11	CERAMIC 0.1uF	50V
D753	8-719-109-51	DIODE RD2.0ES-B2		C916	1-164-159-11	CERAMIC 0.1uF	50V
D754	8-719-911-19	DIODE 1SS119		C917	1-164-159-11	CERAMIC 0.1uF	50V
< TRANSISTOR >				< CONNECTOR >			
Q704	8-729-119-76	TRANSISTOR 2SA1175-HFE		CNP803	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		CNP809	1-779-977-11	PIN, CONNECTOR 6P	
Q754	8-729-119-76	TRANSISTOR 2SA1175-HFE		< DIODE >			
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		D808	8-719-025-03	DIODE RBA-402-SL	
< RESISTOR >				D901	8-719-024-99	DIODE 11ES2-NTA2B	
R702	1-247-881-00	CARBON 120K 5%	1/4W	D902	8-719-024-99	DIODE 11ES2-NTA2B	
R721	1-249-433-11	CARBON 22K 5%	1/4W	D903	8-719-024-99	DIODE 11ES2-NTA2B	
R722	1-249-422-11	CARBON 2.7K 5%	1/4W F	D904	8-719-024-99	DIODE 11ES2-NTA2B	
R723	1-249-414-11	CARBON 560 5%	1/4W F	D905	8-719-911-19	DIODE 1SS119	
△ R724	1-249-408-11	CARBON 180 5%	1/4W F	D906	8-719-911-19	DIODE 1SS119	
△ R725	1-249-408-11	CARBON 180 5%	1/4W F	< EARTH >			
△ R726	1-233-352-41	ENCAPSULATED COMPONENT		* EB901	1-537-738-21	TERMINAL, EARTH	
R727	1-247-850-11	CARBON 6.2K 5%	1/4W	< FUSE >			
R728	1-249-419-11	CARBON 1.5K 5%	1/4W F	△ F805	1-532-504-51	FUSE TIME LGA 4A (MY,SP,AUS,CH)	
R732	1-249-437-11	CARBON 47K 5%	1/4W	△ F805	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)4A(US,CND)	
△ R733	1-249-393-11	CARBON 10 5%	1/4W F	< IC >			
R752	1-247-881-00	CARBON 120K 5%	1/4W	IC801	8-759-231-53	IC TA7805S	
R771	1-249-433-11	CARBON 22K 5%	1/4W	IC802	8-759-445-59	IC BA033T	
R772	1-249-422-11	CARBON 2.7K 5%	1/4W F	IC803	8-759-445-59	IC BA033T	
R773	1-249-414-11	CARBON 560 5%	1/4W F	IC901	8-759-333-83	IC NJM2103D	
△ R774	1-249-408-11	CARBON 180 5%	1/4W F	< TRANSISTOR >			
△ R775	1-249-408-11	CARBON 180 5%	1/4W F	Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK	
△ R776	1-233-352-41	ENCAPSULATED COMPONENT		Q902	8-729-026-68	TRANSISTOR 2SD2525(TP)	
R777	1-247-850-11	CARBON 6.2K 5%	1/4W	< RESISTOR >			
R778	1-249-419-11	CARBON 1.5K 5%	1/4W F	R902	1-249-429-11	CARBON 10K 5%	1/4W
R782	1-249-437-11	CARBON 47K 5%	1/4W	R903	1-249-425-11	CARBON 4.7K 5%	1/4W F
△ R783	1-249-393-11	CARBON 10 5%	1/4W F	R904	1-249-417-11	CARBON 1K 5%	1/4W F
*****				R905	1-249-428-11	CARBON 8.2K 5%	1/4W F
* A-4414-109-A	REG BOARD, COMPLETE	*****		R906	1-249-421-11	CARBON 2.2K 5%	1/4W F
1-533-217-31	HOLDER, FUSE	< CAPACITOR >		R908	1-249-433-11	CARBON 22K 5%	1/4W
C819	1-136-165-00	FILM 0.1uF 5%	50V	R909	1-249-439-11	CARBON 68K 5%	1/4W
C820	1-136-165-00	FILM 0.1uF 5%	50V	R910	1-249-437-11	CARBON 47K 5%	1/4W
C821	1-136-165-00	FILM 0.1uF 5%	50V	R912	1-249-430-11	CARBON 12K 5%	1/4W
C822	1-136-165-00	FILM 0.1uF 5%	50V	*****			
C823	1-136-165-00	FILM 0.1uF 5%	50V				

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Ref. No.	Part No.	Description	Remarks			
*	1-670-013-11	S-LINK BOARD (US,CND) *****				
		< CAPACITOR >				
C268	1-126-964-11	ELECT	10uF	20%	50V	
C269	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C270	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C271	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C272	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CONNECTOR >				
CNS251	1-784-768-11	CONNECTOR, FFC 7P				
		< IC >				
IC251	8-759-388-26	IC NJM2129D				
IC254	8-759-135-80	IC UPC358C				
		< JACK >				
J255	1-563-330-11	JACK (VIDEO 1)				
J256	1-563-330-11	JACK (VIDEO 2)				
J257	1-563-330-11	JACK (MONITOR)				
J258	1-563-330-11	JACK (TV/DBS)				
		< TRANSISTOR >				
Q251	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q252	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q253	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q254	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q255	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q256	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q257	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q258	8-729-119-79	TRANSISTOR 2SC2785-FEK				
		< RESISTOR >				
R261	1-247-843-11	CARBON	3.3K	5%	1/4W	
R262	1-249-429-11	CARBON	10K	5%	1/4W	
R263	1-249-429-11	CARBON	10K	5%	1/4W	
R264	1-247-843-11	CARBON	3.3K	5%	1/4W	
R265	1-249-417-11	CARBON	1K	5%	1/4W	F
R266	1-249-417-11	CARBON	1K	5%	1/4W	F
R267	1-249-417-11	CARBON	1K	5%	1/4W	F
R268	1-249-437-11	CARBON	47K	5%	1/4W	
R269	1-249-433-11	CARBON	22K	5%	1/4W	
R270	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R271	1-249-417-11	CARBON	1K	5%	1/4W	F
R272	1-249-417-11	CARBON	1K	5%	1/4W	F
R273	1-249-414-11	CARBON	560	5%	1/4W	F
R274	1-249-413-11	CARBON	470	5%	1/4W	F
R275	1-249-417-11	CARBON	1K	5%	1/4W	F
R276	1-249-417-11	CARBON	1K	5%	1/4W	F
R277	1-249-413-11	CARBON	470	5%	1/4W	F
R278	1-249-414-11	CARBON	560	5%	1/4W	F

*	1-670-004-11	S-VIDEO BOARD (MY,SP,CH) *****				
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		< CAPACITOR >				
C251	1-136-165-00	FILM	0.1uF	5%	50V	
C252	1-136-165-00	FILM	0.1uF	5%	50V	
C253	1-126-964-11	ELECT	10uF	20%	50V	
C254	1-136-165-00	FILM	0.1uF	5%	50V	
C255	1-136-165-00	FILM	0.1uF	5%	50V	
C256	1-126-964-11	ELECT	10uF	20%	50V	
C257	1-136-165-00	FILM	0.1uF	5%	50V	
C258	1-126-964-11	ELECT	10uF	20%	50V	
C259	1-126-964-11	ELECT	10uF	20%	50V	
C260	1-136-165-00	FILM	0.1uF	5%	50V	
C261	1-104-664-11	ELECT	47uF	20%	16V	
C262	1-164-159-11	CERAMIC	0.1uF		50V	
C263	1-164-159-11	CERAMIC	0.1uF		50V	
C264	1-104-664-11	ELECT	47uF	20%	16V	
C265	1-164-159-11	CERAMIC	0.1uF		50V	
C266	1-164-159-11	CERAMIC	0.1uF		50V	
C267	1-162-290-31	CERAMIC	470PF	10%	50V	
C268	1-162-290-31	CERAMIC	470PF	10%	50V	
C269	1-162-290-31	CERAMIC	470PF	10%	50V	
C270	1-162-290-31	CERAMIC	470PF	10%	50V	
		< CONNECTOR >				
CNS251	1-784-770-11	CONNECTOR, FFC 9P				
		< DIODE >				
D251	8-719-911-19	DIODE 1SS119				
D252	8-719-911-19	DIODE 1SS119				
		< IC >				
IC251	8-759-529-20	IC NJM2296D				
IC252	8-759-529-20	IC NJM2296D				
		< JACK >				
J251	1-537-943-11	TERMINAL, S (MONITOR)				
J252	1-764-676-11	CONNECTOR (ROUND TYPE) (VIDEO1)				
J253	1-764-676-11	CONNECTOR (ROUND TYPE) (TV/LD,DVD)				
		< RESISTOR >				
R251	1-247-804-11	CARBON	75	5%	1/4W	
R252	1-249-429-11	CARBON	10K	5%	1/4W	
R253	1-247-804-11	CARBON	75	5%	1/4W	
R254	1-247-804-11	CARBON	75	5%	1/4W	
R255	1-247-804-11	CARBON	75	5%	1/4W	
R256	1-249-429-11	CARBON	10K	5%	1/4W	
R257	1-247-804-11	CARBON	75	5%	1/4W	
R258	1-247-804-11	CARBON	75	5%	1/4W	
R259	1-247-804-11	CARBON	75	5%	1/4W	
R260	1-247-804-11	CARBON	75	5%	1/4W	
R261	1-247-804-11	CARBON	75	5%	1/4W	
R262	1-247-804-11	CARBON	75	5%	1/4W	

*	A-4414-124-A	SP BOARD, COMPLETE (US,CND,AUS) *****				
*	A-4414-090-A	SP BOARD, COMPLETE (MY,SP,CH) *****				
	7-685-872-09	SCREW +BVTT 3X8 (S)				

SP

SP SW

SW

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< CAPACITOR >				< RESISTOR >			
C624	1-126-059-11	ELECT	10uF 20% 50V	R543	1-249-429-11	CARBON 10K 5%	1/4W
C626	1-136-153-00	FILM	0.01uF 5% 50V	R544	1-249-425-11	CARBON 4.7K 5%	1/4W F
C724	1-126-059-11	ELECT	10uF 20% 50V	△ R545	1-249-411-11	CARBON 330 5%	1/4W
C726	1-136-153-00	FILM	0.01uF 5% 50V	R629	1-247-866-11	CARBON 30K 5%	1/4W
C794	1-126-059-11	ELECT	10uF 20% 50V	R630	1-249-421-11	CARBON 2.2K 5%	1/4W F
C795	1-126-941-11	ELECT	470uF 20% 25V	R631	1-249-433-11	CARBON 22K 5%	1/4W
CC41	1-162-290-31	CERAMIC	470PF 10% 50V	△ R634	1-249-389-11	CARBON 4.7 5%	1/4W F
			(MY,SP,CH)	R635	1-249-431-11	CARBON 15K 5%	1/4W
CC42	1-162-290-31	CERAMIC	470PF 10% 50V	R636	1-249-433-11	CARBON 22K 5%	1/4W
			(MY,SP,CH)	R647	1-249-429-11	CARBON 10K 5%	1/4W
CC43	1-162-290-31	CERAMIC	470PF 10% 50V				
			(MY,SP,CH)	R648	1-249-425-11	CARBON 4.7K 5%	1/4W F
< JACK >				△ R649	1-249-407-11	CARBON 150 5%	1/4W F
CNJ701	1-774-136-11	CONNECTOR, ROUND TYPE 6P	(WIRELESS REAR SPEAKER)	R729	1-247-866-11	CARBON 30K 5%	1/4W
				R730	1-249-421-11	CARBON 2.2K 5%	1/4W F
				R731	1-249-433-11	CARBON 22K 5%	1/4W
< CONNECTOR >				△ R734	1-249-389-11	CARBON 4.7 5%	1/4W F
CNP601	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P		R735	1-249-431-11	CARBON 15K 5%	1/4W
CNP602	1-784-922-11	PIN, CONNECTOR 5P		R737	1-249-429-11	CARBON 10K 5%	1/4W
CNP603	1-779-977-11	PIN, CONNECTOR 6P		R738	1-247-887-00	CARBON 220K 5%	1/4W
				R743	1-249-425-11	CARBON 4.7K 5%	1/4W F
< DIODE >				R744	1-249-425-11	CARBON 4.7K 5%	1/4W F
D543	8-719-911-19	DIODE 1SS119		R745	1-249-421-11	CARBON 2.2K 5%	1/4W F
D605	8-719-911-19	DIODE 1SS119		R746	1-249-421-11	CARBON 2.2K 5%	1/4W F
D606	8-719-911-19	DIODE 1SS119		R747	1-249-429-11	CARBON 10K 5%	1/4W
D607	8-719-911-19	DIODE 1SS119		R748	1-249-425-11	CARBON 4.7K 5%	1/4W F
D649	8-719-911-19	DIODE 1SS119					
D705	8-719-911-19	DIODE 1SS119		△ R749	1-249-407-11	CARBON 150 5%	1/4W F
D706	8-719-911-19	DIODE 1SS119		△ R784	1-249-389-11	CARBON 4.7 5%	1/4W F
D749	8-719-911-19	DIODE 1SS119		R787	1-249-429-11	CARBON 10K 5%	1/4W
				R788	1-247-887-00	CARBON 220K 5%	1/4W
< IC >				< RELAY >			
IC702	8-759-605-01	IC M5F78M18L		RY503	1-515-793-11	RELAY	
				RY601	1-515-920-11	RELAY (24V)	
				RY701	1-515-920-11	RELAY (24V)	
< JACK >				< SWITCH >			
J501	1-770-157-21	JACK, PIN 2P (WOOFER)		S501	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECT)	
< COIL >				< TERMINAL >			
L601	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)		TM701	1-537-923-11	TERMINAL BOARD (SPEAKERS)(US,CND,AUS)	
L601	1-420-872-00	COIL, AIR-CORE (US,CND,AUS)		TM701	1-694-431-21	TERMINAL BOARD (SPEAKERS)(MY,SP,CH)	
L701	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)		*****			
L701	1-420-872-00	COIL, AIR-CORE (US,CND,AUS)					
L751	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)		* 1-670-010-11	SP SW BOARD	*****	
L751	1-420-872-00	COIL, AIR-CORE (US,CND,AUS)					
< TRANSISTOR >				< DIODE >			
Q544	8-729-119-79	TRANSISTOR 2SC2785-FEK		D120	8-719-911-19	DIODE 1SS119	
Q609	8-729-281-53	TRANSISTOR 2SC1815-GR		D121	8-719-911-19	DIODE 1SS119	
Q610	8-729-900-63	TRANSISTOR DTA124ES		< RESISTOR >			
Q611	8-729-900-63	TRANSISTOR DTA124ES					
Q645	8-729-119-79	TRANSISTOR 2SC2785-FEK		R173	1-249-421-11	CARBON 2.2K 5%	1/4W F
Q709	8-729-281-53	TRANSISTOR 2SC1815-GR		R174	1-249-419-11	CARBON 1.5K 5%	1/4W F
Q710	8-729-900-63	TRANSISTOR DTA124ES					
Q745	8-729-119-79	TRANSISTOR 2SC2785-FEK					
Q747	8-729-620-05	TRANSISTOR 2SC2603-EF					
Q748	8-729-030-19	TRANSISTOR 2SB1640					

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	Remarks			
< SWITCH >						
S134	1-762-268-11	SWITCH, ROTARY (SPEAKERS)				
S140	1-762-750-11	SWITCH, TACTILE (SET UP)				
S141	1-762-750-11	SWITCH, TACTILE (CURSOR)				

*	A-4414-123-A	SW BOARD, COMPLETE	*****			
< CAPACITOR >						
C114	1-164-159-11	CERAMIC	0.1uF		50V	
C115	1-164-159-11	CERAMIC	0.1uF		50V	
C116	1-164-159-11	CERAMIC	0.1uF		50V	
< CONNECTOR >						
CNS113	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
CNS114	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
CNS115	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
CNS116	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
< DIODE >						
D109	8-719-046-39	DIODE SEL5821A-TH15				
D110	8-719-046-39	DIODE SEL5821A-TH15				
D112	8-719-046-39	DIODE SEL5821A-TH15				
D113	8-719-046-39	DIODE SEL5821A-TH15				
D114	8-719-046-39	DIODE SEL5821A-TH15				
D116	8-719-046-39	DIODE SEL5821A-TH15				
D117	8-719-046-39	DIODE SEL5821A-TH15				
D118	8-719-046-39	DIODE SEL5821A-TH15				
< RESISTOR >						
R136	1-249-413-11	CARBON	470	5%	1/4W	F
R137	1-249-411-11	CARBON	330	5%	1/4W	
R138	1-249-411-11	CARBON	330	5%	1/4W	
R139	1-249-411-11	CARBON	330	5%	1/4W	
R140	1-249-415-11	CARBON	680	5%	1/4W	F
R141	1-249-413-11	CARBON	470	5%	1/4W	F
R142	1-249-413-11	CARBON	470	5%	1/4W	F
R143	1-249-413-11	CARBON	470	5%	1/4W	F
R144	1-249-417-11	CARBON	1K	5%	1/4W	F
R145	1-249-415-11	CARBON	680	5%	1/4W	F
R146	1-249-415-11	CARBON	680	5%	1/4W	F
R147	1-249-415-11	CARBON	680	5%	1/4W	F
R148	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R149	1-249-417-11	CARBON	1K	5%	1/4W	F
R150	1-249-417-11	CARBON	1K	5%	1/4W	F
R151	1-249-417-11	CARBON	1K	5%	1/4W	F
R152	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R153	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R154	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R155	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R156	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R157	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R158	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R159	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R160	1-249-425-11	CARBON	4.7K	5%	1/4W	F

Ref. No.	Part No.	Description	Remarks			
< SWITCH >						
S103	1-762-750-11	SWITCH, TACTILE (BOOST)				
S105	1-762-750-11	SWITCH, TACTILE (SHIFT)				
S106	1-762-750-11	SWITCH, TACTILE (DIRECT)				
S107	1-762-750-11	SWITCH, TACTILE (EQ ON/OFF)				
S108	1-762-750-11	SWITCH, TACTILE (DVD/LD)				
S109	1-762-750-11	SWITCH, TACTILE (6)				
S110	1-762-750-11	SWITCH, TACTILE (1)				
S111	1-762-750-11	SWITCH, TACTILE (INPUT)				
S112	1-762-750-11	SWITCH, TACTILE (TV/DBS)				
S113	1-762-750-11	SWITCH, TACTILE (7)				
S114	1-762-750-11	SWITCH, TACTILE (2)				
S115	1-762-750-11	SWITCH, TACTILE (GENRE)				
S116	1-762-750-11	SWITCH, TACTILE (PHONO)				
S117	1-762-750-11	SWITCH, TACTILE (8)				
S118	1-762-750-11	SWITCH, TACTILE (3)				
S119	1-762-750-11	SWITCH, TACTILE (SF MODE)				
S120	1-762-750-11	SWITCH, TACTILE (TUNER)				
S121	1-762-750-11	SWITCH, TACTILE (9)				
S122	1-762-750-11	SWITCH, TACTILE (4)				
S123	1-762-750-11	SWITCH, TACTILE (SF ON/OFF)				
S124	1-762-750-11	SWITCH, TACTILE (CD)				
S125	1-762-750-11	SWITCH, TACTILE (0)				
S126	1-762-750-11	SWITCH, TACTILE (5)				
S127	1-762-750-11	SWITCH, TACTILE (TAPE)				
S128	1-762-750-11	SWITCH, TACTILE (VIDEO 1)				
S130	1-762-750-11	SWITCH, TACTILE (VIDEO 2)				

*	1-670-000-11	TUNER BOARD				

< CONNECTOR >						
CNS304	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P				
CNS305	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P				

*	1-670-003-11	VIDEO BOARD				

< CAPACITOR >						
C201	1-126-964-11	ELECT	10uF	20%	50V	
C202	1-126-964-11	ELECT	10uF	20%	50V	
C203	1-126-964-11	ELECT	10uF	20%	50V	
C204	1-126-964-11	ELECT	10uF	20%	50V	
C205	1-162-215-31	CERAMIC	47PF	5%	50V	
C206	1-162-215-31	CERAMIC	47PF	5%	50V	
C207	1-162-215-31	CERAMIC	47PF	5%	50V	
C209	1-164-159-11	CERAMIC	0.1uF		50V	
C210	1-164-159-11	CERAMIC	0.1uF		50V	
C211	1-164-159-11	CERAMIC	0.1uF		50V	
C212	1-164-159-11	CERAMIC	0.1uF		50V	
C213	1-126-933-11	ELECT	100uF	20%	16V	
C214	1-126-933-11	ELECT	100uF	20%	16V	
< CONNECTOR >						
CNS211	1-784-733-11	CONNECTOR, FFC 11P (MY,SP,AUS,CH)				
CNS211	1-784-737-11	CONNECTOR, FFC 15P (US,CND)				
CNS212	1-784-731-11	CONNECTOR, FFC 9P (MY,SP,CH)				
CNS215	1-784-729-11	CONNECTOR, FFC 7P (US,CND)				

Ref. No.	Part No.	Description	Remarks				Ref. No.	Part No.	Description	Remarks			
< DIODE >						< RESISTOR >							
D201	8-719-911-19	DIODE 1SS119					R413	1-249-437-11	CARBON	47K	5%	1/4W	
D202	8-719-911-19	DIODE 1SS119					R414	1-249-437-11	CARBON	47K	5%	1/4W	
< IC >						R415	1-249-437-11	CARBON	47K	5%	1/4W		
IC201	8-759-529-20	IC NJM2296D					R416	1-249-429-11	CARBON	10K	5%	1/4W	
IC202	8-759-701-65	IC NJM79M05FA					R417	1-247-843-11	CARBON	3.3K	5%	1/4W	
< JACK >						R418	1-249-437-11	CARBON	47K	5%	1/4W		
J201	1-766-399-11	JACK, PIN 3P (MONITOR/VIDE 1)					R419	1-249-437-11	CARBON	47K	5%	1/4W	
J202	1-766-400-11	JACK, PIN 2P (VIDEO 2)					R420	1-249-437-11	CARBON	47K	5%	1/4W	
J203	1-766-400-11	JACK, PIN 2P (TV/DBS,DVD/LD)					R421	1-249-437-11	CARBON	47K	5%	1/4W	
J204	1-563-330-11	JACK (S-LINK)					R463	1-249-437-11	CARBON	47K	5%	1/4W	
< RESISTOR >						R464	1-249-437-11	CARBON	47K	5%	1/4W		
R201	1-247-804-11	CARBON	75	5%	1/4W		R465	1-249-437-11	CARBON	47K	5%	1/4W	
R202	1-247-804-11	CARBON	75	5%	1/4W		R466	1-249-429-11	CARBON	10K	5%	1/4W	
R203	1-247-804-11	CARBON	75	5%	1/4W		R467	1-247-843-11	CARBON	3.3K	5%	1/4W	
R204	1-247-804-11	CARBON	75	5%	1/4W		R468	1-247-843-11	CARBON	3.3K	5%	1/4W	
R205	1-247-804-11	CARBON	75	5%	1/4W		R469	1-249-437-11	CARBON	47K	5%	1/4W	
R206	1-247-804-11	CARBON	75	5%	1/4W		R470	1-249-437-11	CARBON	47K	5%	1/4W	
R207	1-247-804-11	CARBON	75	5%	1/4W		R471	1-249-437-11	CARBON	47K	5%	1/4W	
*****						RR108	1-249-411-11	CARBON	330	5%	1/4W		
*****						< VARIABLE RESISTOR >							
*****						RV401	1-225-445-11	RES, VAR, CARBON 100KX6	(MASTER VLUME)				
*****						RV402	1-238-965-21	RES, VAR, CARBON 100K/100K (BALANCE)	*****				
*****						MISCELLANEOUS							
*****						*****							
< CAPACITOR >						*****							
C410	1-126-233-11	ELECT	22uF	20%	50V	12	1-773-161-11	WIRE (FLAT TYPE)(21 CORE)					
C411	1-126-233-11	ELECT	22uF	20%	50V	13	1-769-959-11	WIRE (FLAT TYPE)(11 CORE)(MY,SP,AUS,CH)					
C412	1-126-233-11	ELECT	22uF	20%	50V	13	1-773-025-11	WIRE (FLAT TYPE)(15 CORE)(US,CND)					
C413	1-162-199-31	CERAMIC	10PF	5%	50V	66	1-773-285-11	WIRE (FLAT TYPE) (29 CORE)					
C414	1-162-199-31	CERAMIC	10PF	5%	50V	△ 73	1-696-847-11	CORD, POWER (AUS)					
C415	1-162-199-31	CERAMIC	10PF	5%	50V	△ 73	1-769-743-11	CORD, POWER (US,CND)					
C421	1-162-286-31	CERAMIC	220PF	10%	50V	△ 73	1-769-744-11	CORD, POWER (MY,SP)					
C422	1-162-286-31	CERAMIC	220PF	10%	50V	△ 73	1-782-464-21	CORD, POWER (CH)					
C423	1-162-286-31	CERAMIC	220PF	10%	50V	75	1-769-904-11	WIRE (FLAT TYPE) (9 CORE)(MY,SP,CH)					
C460	1-126-233-11	ELECT	22uF	20%	50V	76	1-769-876-11	WIRE (FLAT TYPE) (7 CORE)					
C461	1-126-233-11	ELECT	22uF	20%	50V	△ CNJ901	1-251-416-11	OUTLET, A.C. (AUS)					
C462	1-126-233-11	ELECT	22uF	20%	50V	△ CNJ901	1-526-794-11	OUTLET, AC (MY,SP)					
C463	1-162-199-31	CERAMIC	10PF	5%	50V	△ T901	1-431-887-11	TRANSFORMER, POWER (US)					
C464	1-162-199-31	CERAMIC	10PF	5%	50V	△ T901	1-431-888-11	TRANSFORMER, POWER (CND)					
C465	1-162-199-31	CERAMIC	10PF	5%	50V	△ T901	1-431-890-11	TRANSFORMER, POWER (AUS)					
C471	1-162-286-31	CERAMIC	220PF	10%	50V	△ T901	1-431-894-11	TRANSFORMER, POWER (MY,SP,CH)					
C472	1-162-286-31	CERAMIC	220PF	10%	50V	△ TM301	1-693-407-11	TUNER (US,CND)					
C473	1-162-286-31	CERAMIC	220PF	10%	50V	△ TM301	1-693-409-11	TUNER (MY,SP,AUS,CH)					
< CONNECTOR >						*****							
CNP101	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P					*****						
* CNS402	1-564-726-11	PIN, CONNECTOR (SMALL TYPE)10P					*****						
< IC >						*****							
IC408	8-759-634-50	IC M5218AL					*****						
IC409	8-759-634-50	IC M5218AL					*****						
IC410	8-759-634-50	IC M5218AL					*****						

The components identified by

Les composants identifiés

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.
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Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS	

	1-475-726-12	REMOTE COMMANDER (RM-LJ301)	
	1-501-374-11	ANTENNA, LOOP	
	1-776-258-11	CORD, AVC CONNECTION (US,CND)	
	1-777-172-11	CORD, CONNECTION (US,CND)	
	3-864-441-11	MANUAL, INSTRUCTION (RM-LJ301)	
		(ENGLISH/FRENCH/SPANISH)	
	3-864-441-21	MANUAL, INSTRUCTION	
		(RM-LJ301)(FRENCH)(CND)	
	3-864-441-31	MANUAL, INSTRUCTION (RM-LJ301)	
		(ENGLISH/CHINESE)(MY,SP,CH)	
	3-864-483-11	MANUAL, INSTRUCTION (ENGLISH)(US,CND)	
	3-864-483-21	MANUAL, INSTRUCTION (ENGLISH)(AUS)	
	3-864-483-31	MANUAL, INSTRUCTION (FRENCH)(CND)	
	3-864-483-51	MANUAL, INSTRUCTION (ENGLISH/CHINESE)	
		(MY,SP)	
	3-864-483-61	MANUAL, INSTRUCTION (ENGLISH/CHINESE)	
		(CH)	
	4-210-990-01	LID, BATTERY CASE (For RM-LJ301)	

		HARDWARE LIST	

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-881-09	SCREW +BVTT 4X8 (S)	
#3	7-685-872-09	SCREW +BVTT 3X8 (S)	

STR-DE825/V818

SONY®

SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model
STR-DE825
Chinese Model
STR-V818

CORRECTION-1

Correct your service manual as shown below.

Page	INCORRECT				CORRECT			
77	REAR AMP BOARD, COMPLETE *****				REAR AMP BOARD, COMPLETE *****			
	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
					Q705	8-729-209-15	TRANSISTOR 2SD2012	
					Q706	8-749-010-25	IC MN2488-OPY-M	
					Q707	8-749-010-26	IC MP1620-OPY-M	
					Q755	8-729-209-15	TRANSISTOR 2SD2012	
					Q756	8-749-010-25	IC MN2488-OPY-M	
					Q757	8-749-010-26	IC MP1620-OPY-M	

(SPM-00002)

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

[illegible]