

STR-DE635

SERVICE MANUAL

Ver. 1.2 2006.04

US Model
Canadian Model
AEP Model



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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS:

POWER OUTPUT AND TOTAL

HARMONIC DISTORTION:

With 8 Ω loads, both channels driven, from 20 – 20,000 Hz; rated 80 W per channel minimum RMS power, with no more than 0.09% total harmonic distortion from 250 mW to rated output (USA model only).

Amplifier section

Stereo mode	USA, Canadian models: (8 Ω 20Hz – 20kHz, THD 0.09%) 80W + 80W
	AEP model: (4 Ω DIN, 1kHz) 70W + 70W
Surround mode	USA, Canadian models: (8 Ω at 1kHz, THD 0.8%) Front: 80W + 80W Center ^{a)} : 80W Rear ^{a)} : 80W + 80W
	AEP model: (4 Ω DIN, 1kHz) Front: 70W + 70W Center ^{a)} : 70W Rear ^{a)} : 70W + 70W

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

Dynamic power output	145W + 145W, 8 Ω
	210W + 210W, 4 Ω

Frequency response

PHONO: RIAA
equalization curve ± 0.5 dB

USA, Canadian models:

CD, MD/TAPE, DVD/LD, TV/SAT,
VIDEO1,2:

AEP model:

CD, MD/TAPE, DVD, TV/LD, VIDEO1,2:
10Hz – 50kHz + 0.5/–2dB (with sound field,
equalizer, and bass boost bypassed)

Inputs (Analog)

PHONO:

Sensitivity: 2.5mV
Impedance: 50k Ω
S/N^{b)}: 86dB (A, 2.5mV^{c)})

USA, Canadian models:

5.1CH INPUT, CD,DVD/LD,MD/TAPE,TV/
SAT,VIDEO1,2:

AEP model

5.1CH INPUT, CD,DVD,MD/TAPE,TV/
LD,VIDEO1,2:

Sensitivity: 150mV
Impedance: 50k Ω
S/N^{b)}: 96dB (A, 150mV^{c)})

b) Input short

c) Weighted network, input level

— Continued on next page —

FM STEREO FM-AM RECEIVER

9-928-897-13

2006D16-1

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Sony Corporation

Home Audio Division

Published by Sony Techno Create Corporation

SONY®

Inputs (Digital)	DVD/LD (coaxial): Sensitivity: – Impedance: 75Ω S/N: 100dB (A, 20kHz LPF) DVD/LD (Optical): Sensitivity: – Impedance: – S/N: 100dB (A, 20kHz LPF)
Outputs	MD/TAPE, (REC OUT); VIDEO1,2 (AUDIO OUT): Voltage: 150mV, Impedance: 10kΩ SUB WOOFER: Voltage: 2V Impedance: 1kΩ PHONES: Accepts low-and high-impedance headphones +6dB at 70Hz
BASS BOOST Sampling Frequency EQ	48kHz BASS: 100Hz – 1.0kHz (21steps) MID: 500Hz – 5.0kHz (21steps) TABLE: 1.0kHz – 10kHz (21steps) Gain levels: ±10dB, 1dB step

FM tuner section

Tuning range	87.5 – 108.0MHz
Antenna terminals	75Ω, unbalanced
Sensitivity	Mono: 18.3dBf, 2.2μV/75Ω Stereo: 38.3dBf, 22.5μV/75Ω
Usable sensitivity	11.2dBf, 1μV/75Ω
S/N	Mono: 76dB Stereo: 70dB
Harmonic distortion at 1kHz	Mono: 0.3% Stereo: 0.5%
Separation	45dB at 1kHz
Frequency response	30Hz – 15kHz + 0.5/–2dB
Selectivity	60dB at 400kHz

AM tuner section

Tuning range	USA, Canadian models: With 10-kHz tuning scale: 530 – 1,710kHz ^{d)} With 9-kHz tuning scale: 531 – 1,710kHz ^{d)} AEP model 531 – 1,602kHz
Antenna	Loop antenna
Usable sensitivity	50dB/m (at 1,000kHz or 999kHz)
S/N	54dB (at 50mV/m)
Harmonic distortion	0.5% (50mV/m, 400kHz)
Selectivity	At 9kHz: 35dB At 10kHz: 40dB
d) You can change the AM tuning scale to 9kHz. 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 10kHz, repeat the procedure.	

Video section

Inputs	1Vp-p 75Ω
Outputs	1Vp-p 75Ω

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	USA, Canadian models: 120V AC, 60Hz AEP model 230V AC, 50/60Hz
Power consumption	USA: 270W Canada: 285VA AEP: 200W
AC outlets	USA, Canadian models: 2switched, total 100W AEP model 1switched, max 100W
Dimensions	430 × 364 × 157.5mm (17 × 14 ^{5/16} × 6 ^{1/4} in.) including projecting parts and controls
Mass (Approx.)	USA, Canadian models: 9.5kg (20 lbs. 15 oz.) AEP model 10.1kg
Supplied accessories	FM wire antenna (1) AM loop antenna (1) Remote commander RM-PP402 (remote) (1) R6 (size-AA) batteries (2) FM antenna adapter (1)

Design and specifications are subject to change without notice.

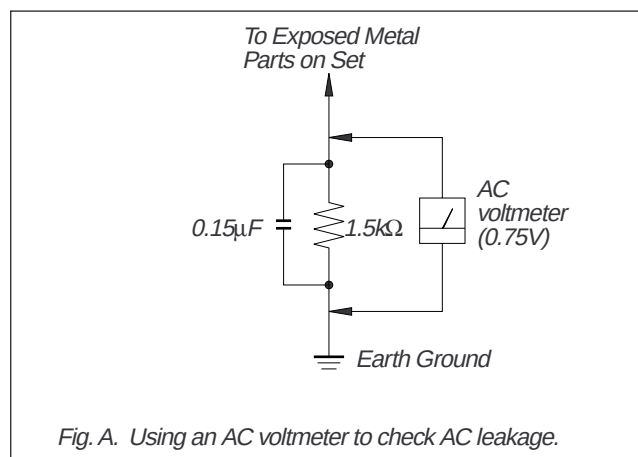
SAFETY CHECK-OUT (US model only)

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

LEAKAGE

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

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



SAFETY-RELATED COMPONENT WARNING!!

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

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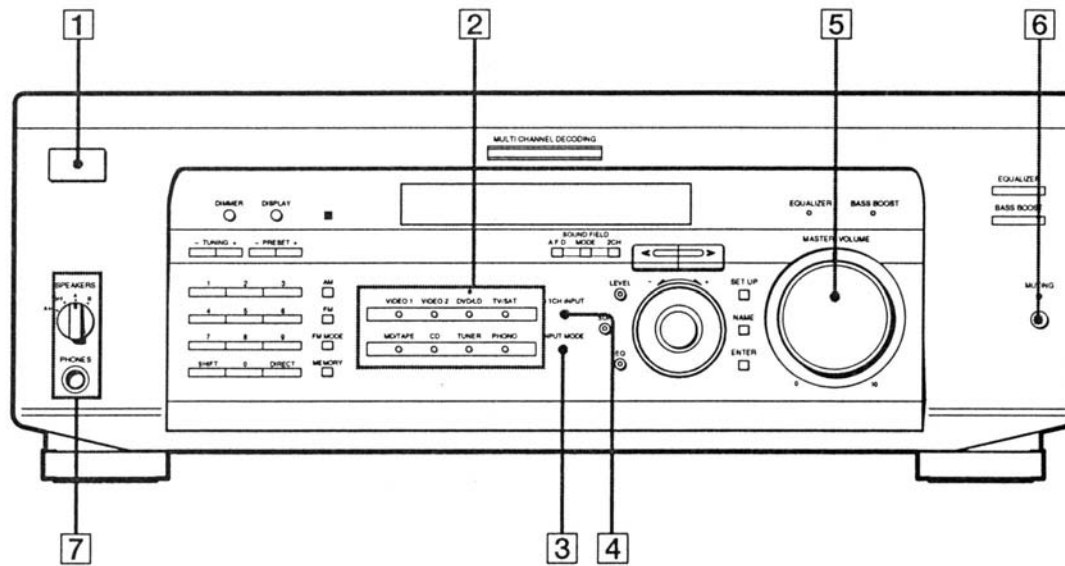
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

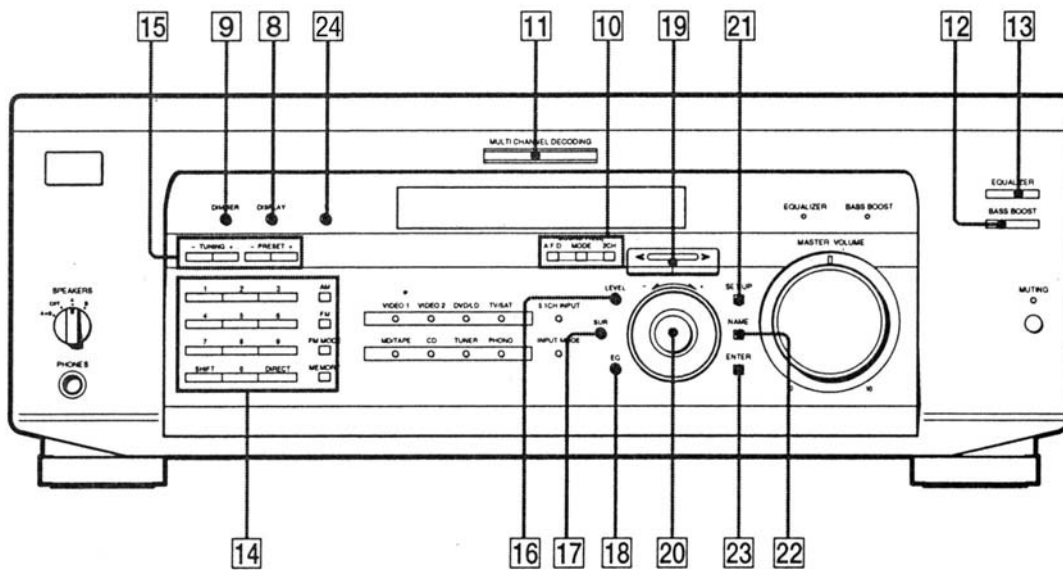
SECTION 1 GENERAL

Identifying the Parts

Front Panel



- | | | | |
|---|--------------------|---|-----------------------|
| 1 | I/⏻ switch | 5 | MASTER VOLUME control |
| 2 | Function buttons | 6 | MUTING button |
| 3 | INPUT MODE button | 7 | SPEAKERS selector |
| 4 | 5.1CH INPUT button | | PHONES jack |



- | | | | |
|----|--------------------------------------|----|----------------------------|
| 8 | DISPLAY button | 15 | TUNING +/- buttons |
| 9 | DIMMER button | | PRESET +/- buttons |
| 10 | A.F.D. button/indicator | 16 | LEVEL button |
| | MODE button/indicator | 17 | SUR button |
| | 2CH button/indicator | 18 | EQ button |
| 11 | MULTI CHANNEL DECODING indicator | 19 | Cursor buttons(</>) |
| 12 | BASS BOOST button | 20 | Jog dial |
| 13 | EQUALIZER button | 21 | SET UP button |
| 14 | DIRECT button | 22 | NAME button |
| | SHIFT button | 23 | ENTER button |
| | Numeric buttons (0 to 9) | 24 | RDS PTY button (AEP model) |
| | AM button (US, Canadian models) | | |
| | RDS EON button (US, Canadian models) | | |
| | FM button (US, Canadian models) | | |
| | AM/FM button (AEP model) | | |
| | FM MODE button | | |
| | MEMORY button | | |

SECTION 2
SERVICING NOTE

1. When the front panel is removed, the VR board is removed at the same time. Consequently the LEDs cannot be turned on and the sound volume cannot be increased or decreased from the remote control.
2. When servicing the DIGITAL board, be sure to connect the earth land of the DIGITAL board with the chassis frame so that the earth potential of the DIGITAL board must not be floated from the chassis frame.

SECTION 3
TEST MODE

FLUORESCENT INDICATOR TUBE TEST MODE

- * All florescent 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 ENTER, the LEVEL and the EQ 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 press the ENTER button..

FACTORY SET MODE

- * All preset contents are reset to the default setting.
- * Procedure:
While depressing the SET UP, the LEVEL and the ENTER buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message Factry 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 SET UP button 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 MODE button, press the power [I/⏻] button to turn on the main power. The message S.F Initialize appears and initialization is performed.

AM CHANNEL STEP 9 kHz/10 kHz
SELECTION MODE (US, Canadian models)

- * 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

- * It tests whether the DSP works correctly or not. When the DSP test is activated, the test data is output from the DSP (IC1401: CXD2712R) of the DIGITAL board and is written in the RAM (IC1402: IDT71V016S). When the test data is read from the RAM by the DSP, the data output must be equivalent to the original data. If they disagree, an error is triggered. Errors can be caused by the broken data line or defective soldering.
- * Procedure
While pressing the SETUP, LEVEL and SUR buttons, press the POWER button to enter the DSP test mode. The message DSP TEST MODE appears. When an error occurs, the message DSP2 ERROR is displayed. When there is no error, the message DSP2 NO ERROR appears and the 1 kHz signal is output to all channels. Then, the mode can be switched the (SIGN WAVE) (THROUGH) and (INPULSE) mode.

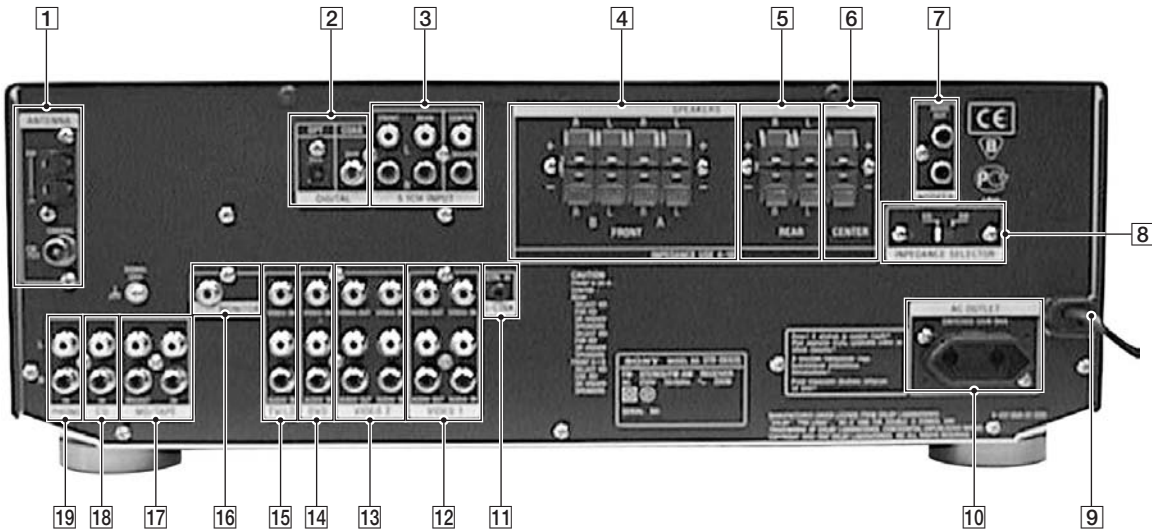
AUTOBETICAL MODE (AEP Model only)

- * This mode is installed in the Europe models only. When this mode is used, the receiver scans the broadcasts that can be received by tuner, and sets up the broadcasts. Be sure to start scanning after connecting the antenna.
Procedure:
Check that the antenna is connected. Press the POWER button while pressing the MEMORY button to turn on the power. The message “Autobetical select” appears and scanning starts by tuner.

VERSION MODE

- * When this mode is used, the microprocessor version number is displayed.
- * Procedure:
Press the POWER button while pressing the ENTER, LEVEL, and SUR buttons to turn on the power. The microprocessor version number appears as follows.

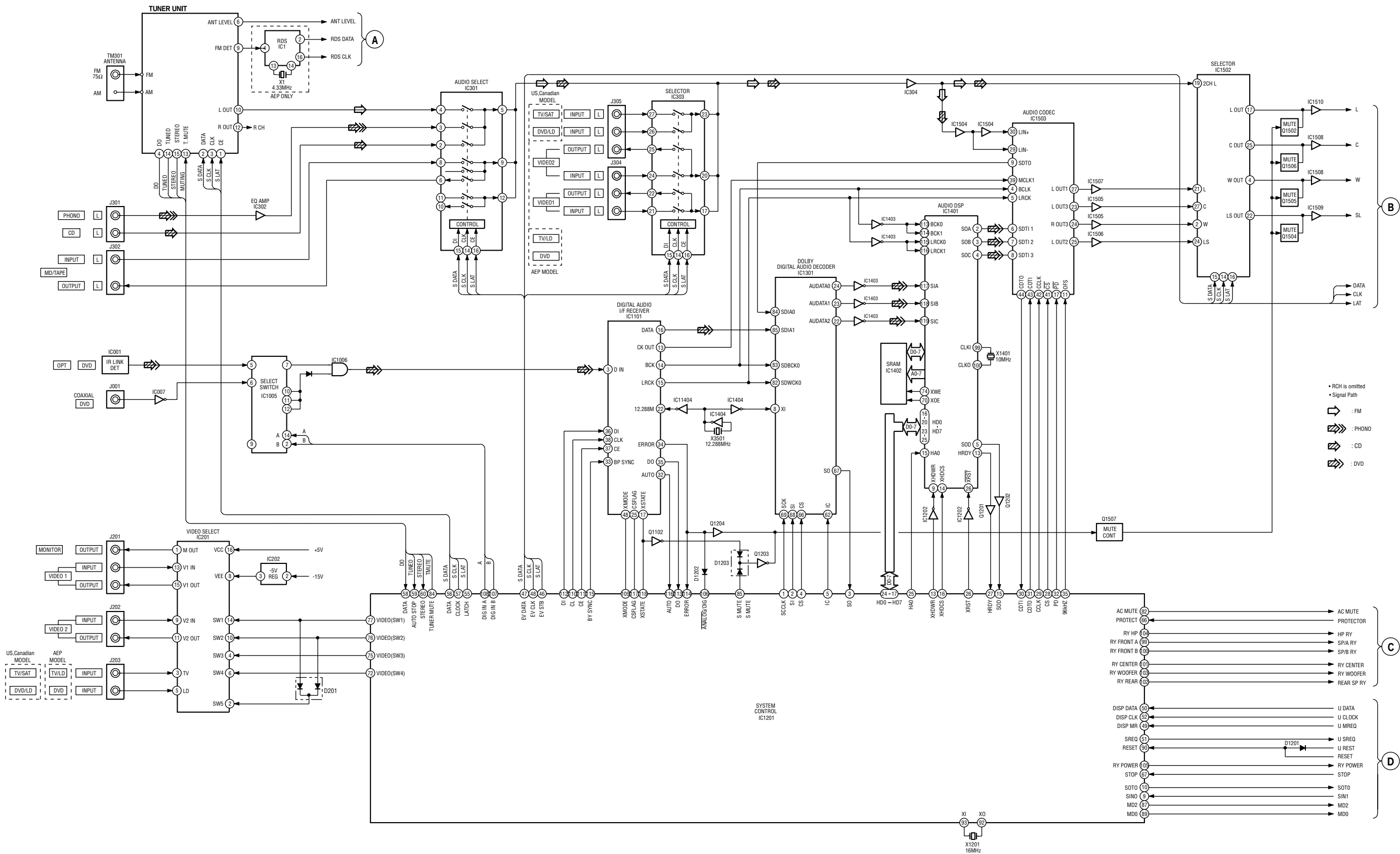
Rear Panel



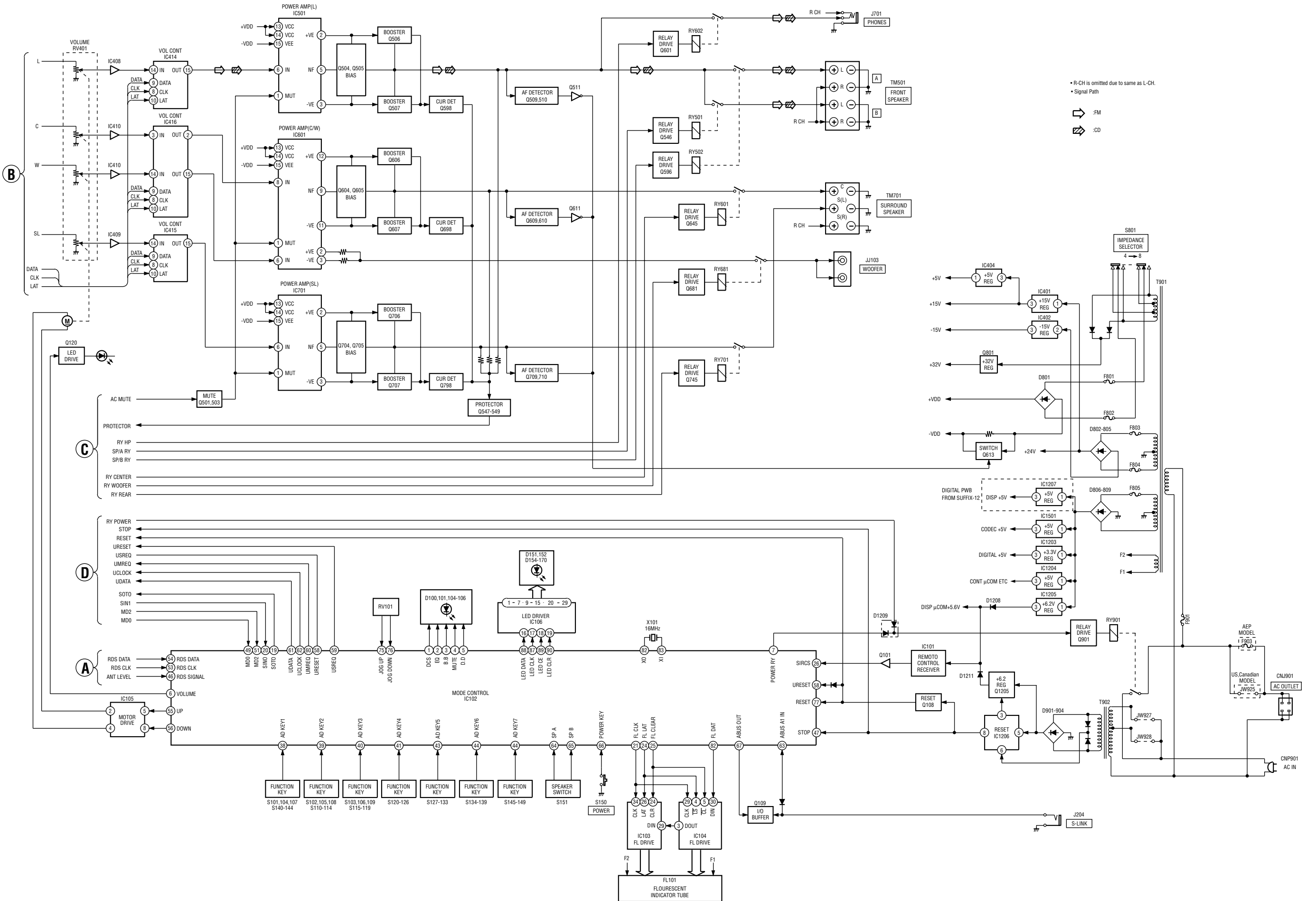
- | | | | |
|----|--------------------|----|---|
| 1 | ANTENNA | 11 | S-LINK |
| 2 | DIGITAL | 12 | VIDEO 1 |
| 3 | 5.1 CH INPUT | 13 | VIDEO 2 |
| 4 | SPEAKERS (FRONT) | 14 | DVD/LD (US, Canadian models)
DVD (AEP model) |
| 5 | SPEAKERS (REAR) | 15 | TV/SAT (US, Canadian models)
TV/LD (AEP model) |
| 6 | SPEAKERS (CENTER) | 16 | MONITOR |
| 7 | WOOFER | 17 | MD/TAPE |
| 8 | INPEDANCE SELECTOR | 18 | CD |
| 9 | AC power cord | 19 | PHONO |
| 10 | AC OUTLET | | |

SECTION 4
DIAGRAMS

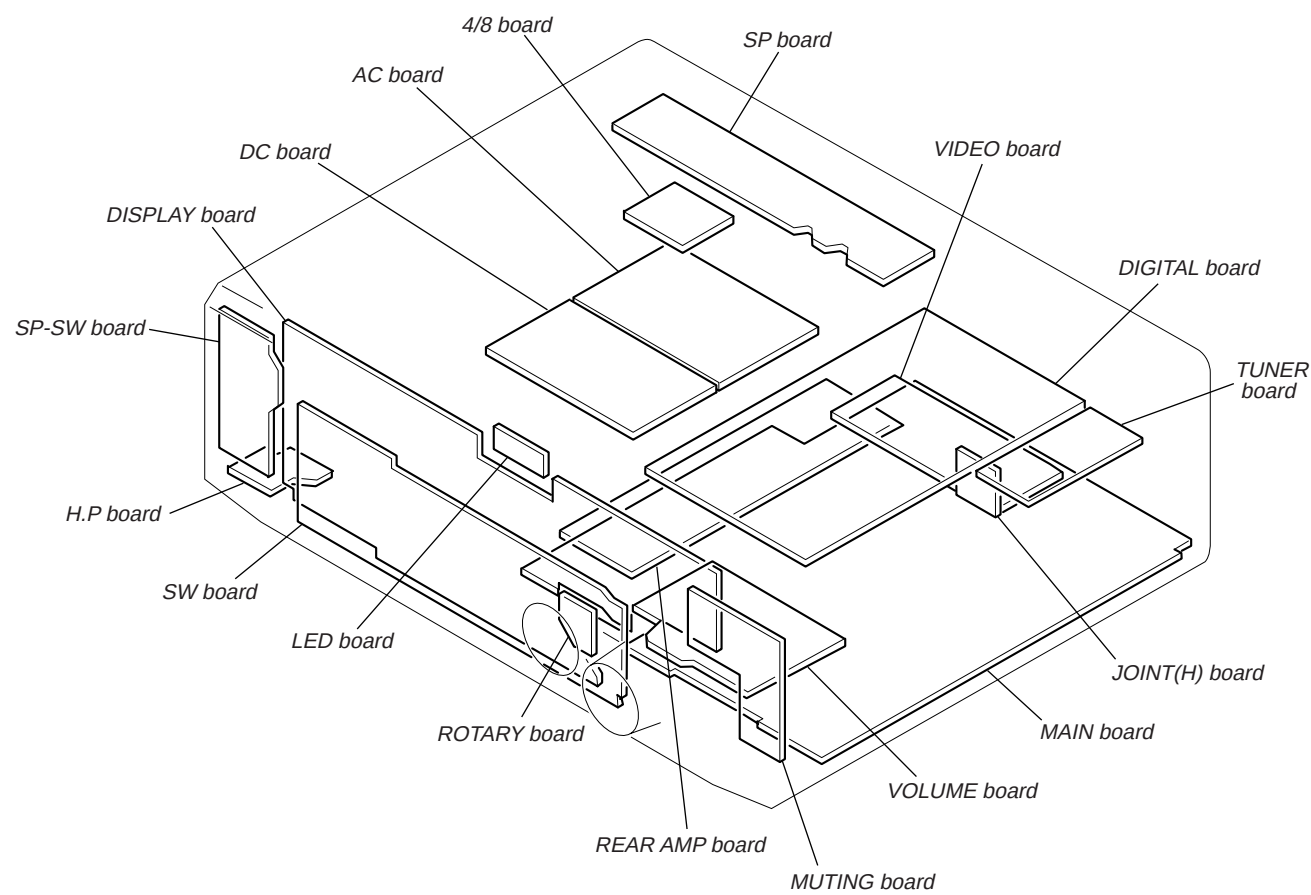
4-1. BLOCK DIAGRAM MAIN SECTION



4-2. BLOCK DIAGRAM POWER SECTION



4-3. CIRCUIT BOARD LOCATION



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

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF: 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 M Ω). 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 model

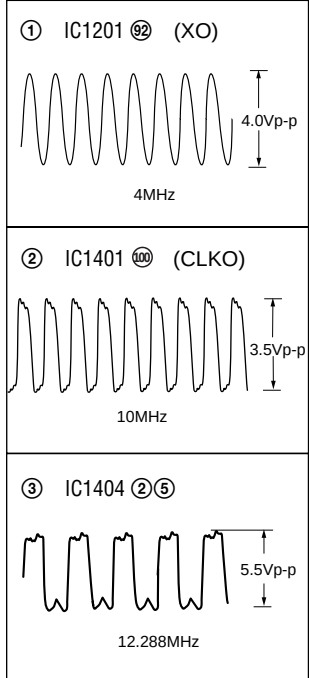
For printed wiring boards.

Note:

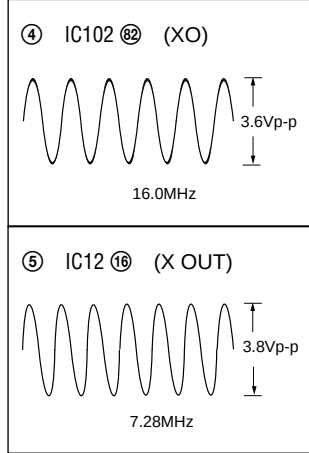
- : parts extracted from the component side.
- : Through hole.
- : Pattern from the side which enables seeing.

• Waveform

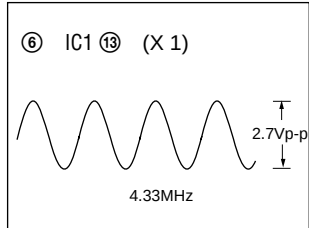
DIGITAL Board



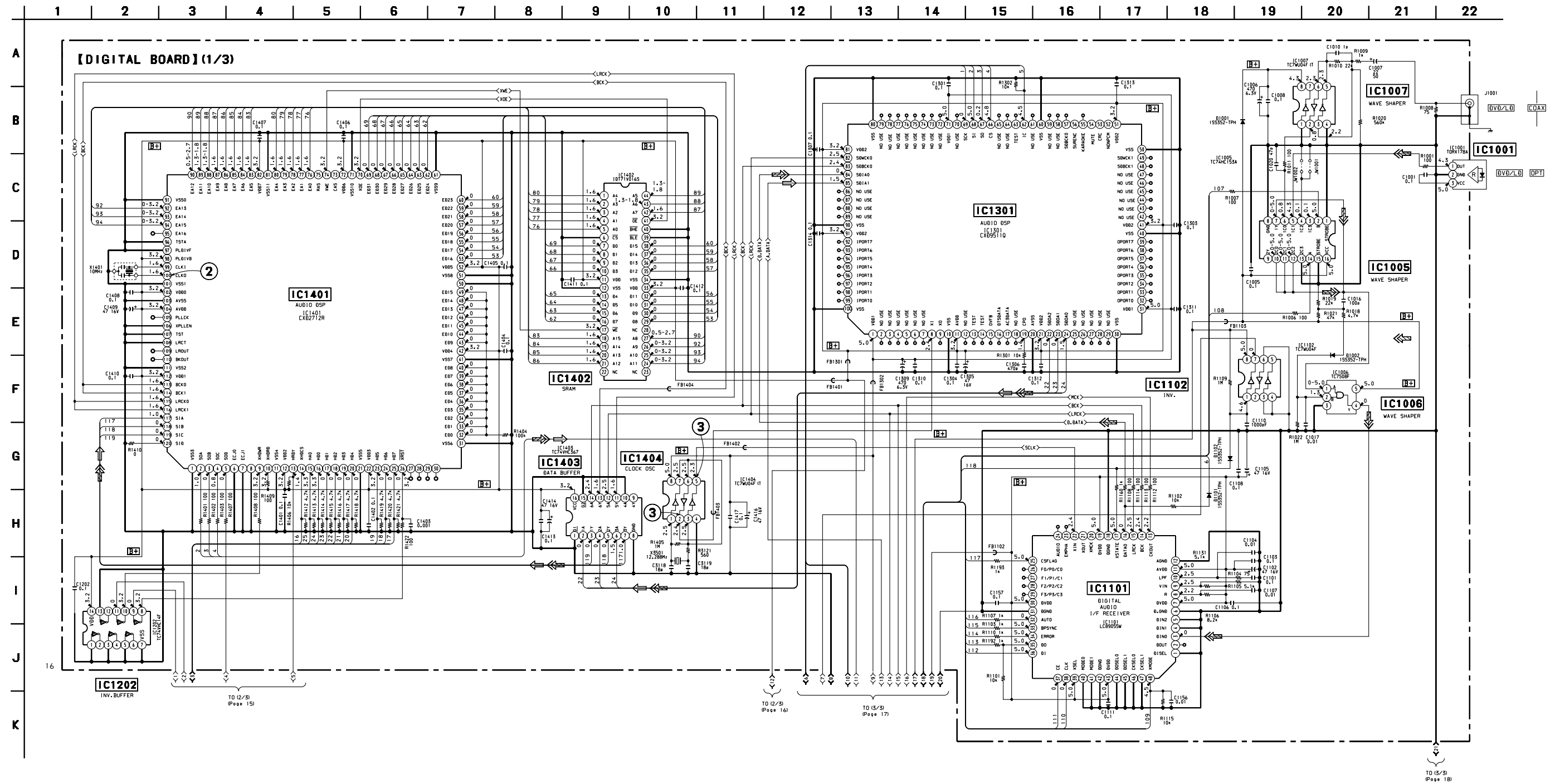
DISPLAY Board



TUNER Board

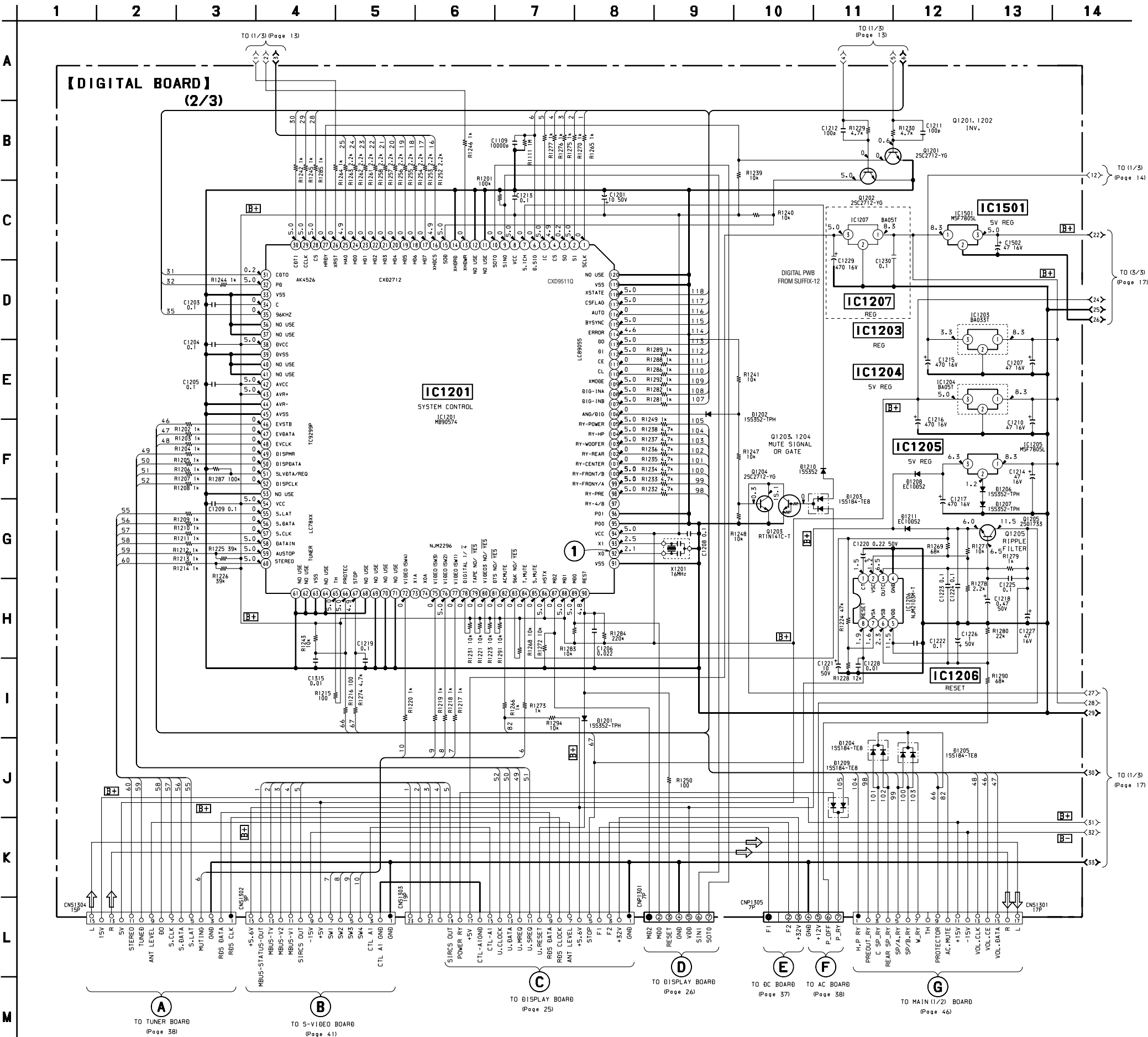


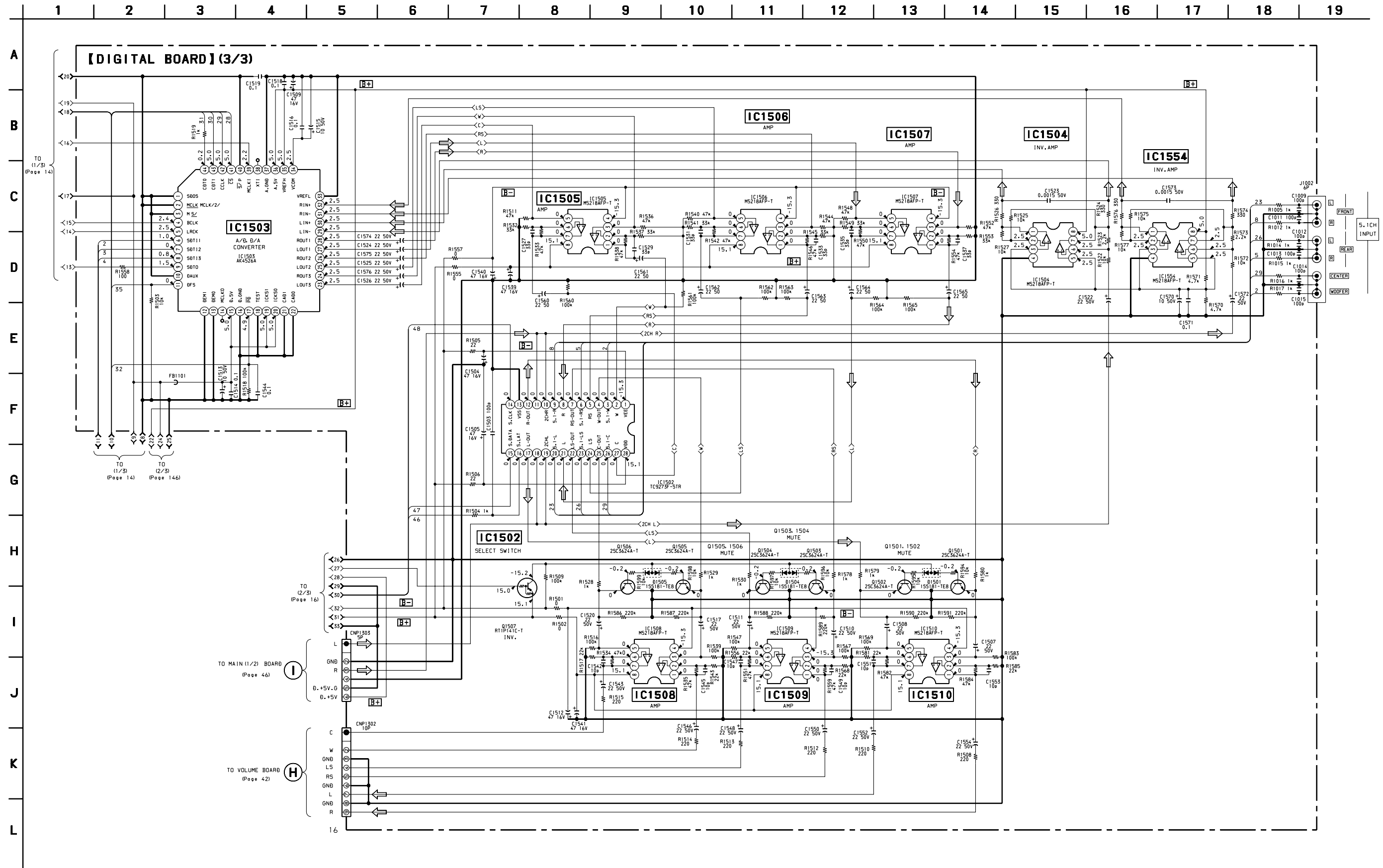
4-4. SCHEMATIC DIAGRAM DIGITAL SECTION(1/3) • See page 19 for Printed Wiring Board. • See page 12 for Waveforms. • See page 49 for IC Pin Functions.



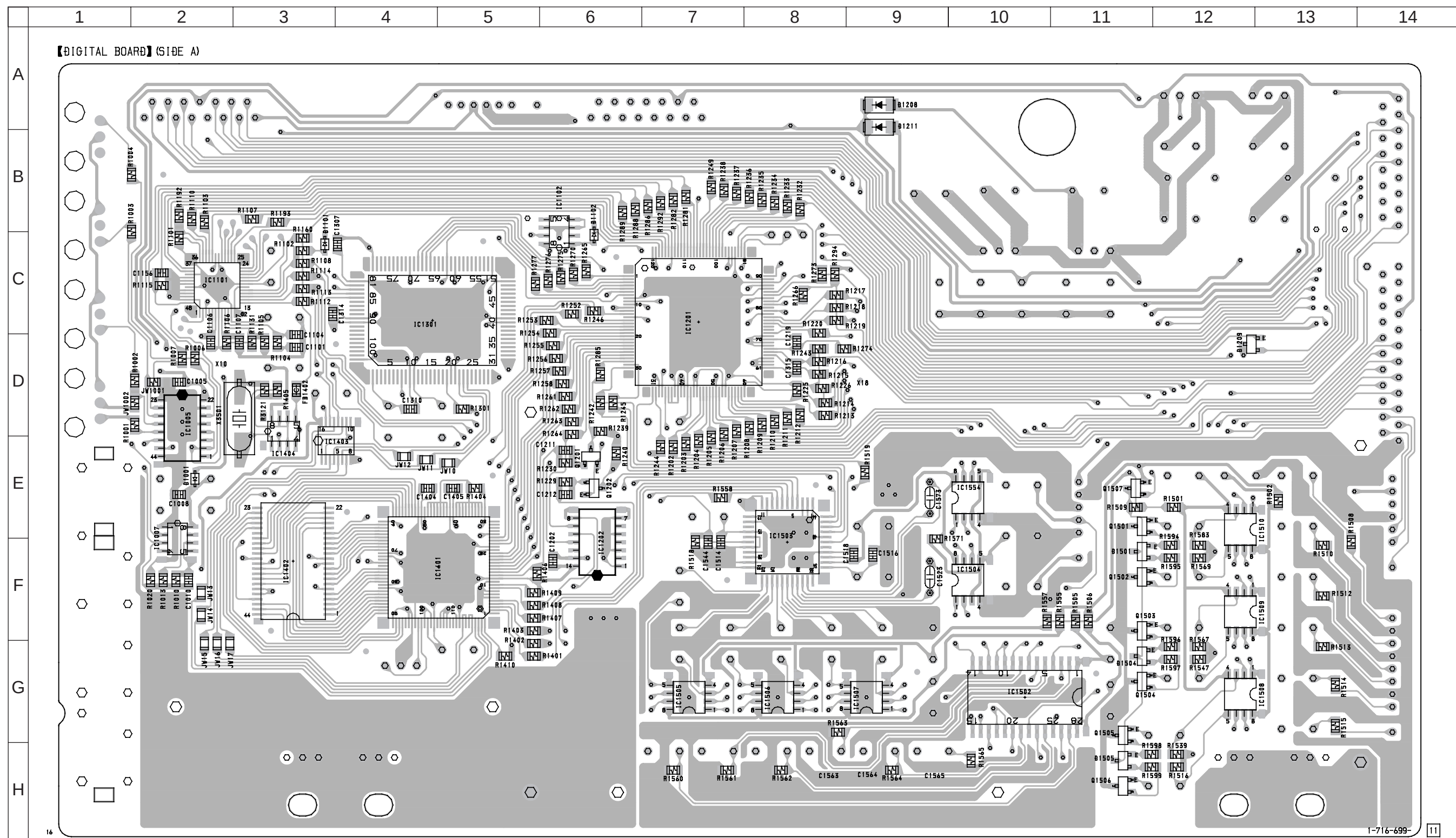
4-5. SCHEMATIC DIAGRAM DIGITAL SECTION(2/3)

• See page 19 for Printed Wiring Board. • See page 12 for Waveforms. • See page 51 for IC Pin Functions. • See page 60 for IC Block Diagrams.



4-6. SCHEMATIC DIAGRAM DIGITAL SECTION(3/3) • See page 19 for Printed Wiring Board. • See page 54 for IC Pin Functions. • See page 60 for IC Block Diagrams.


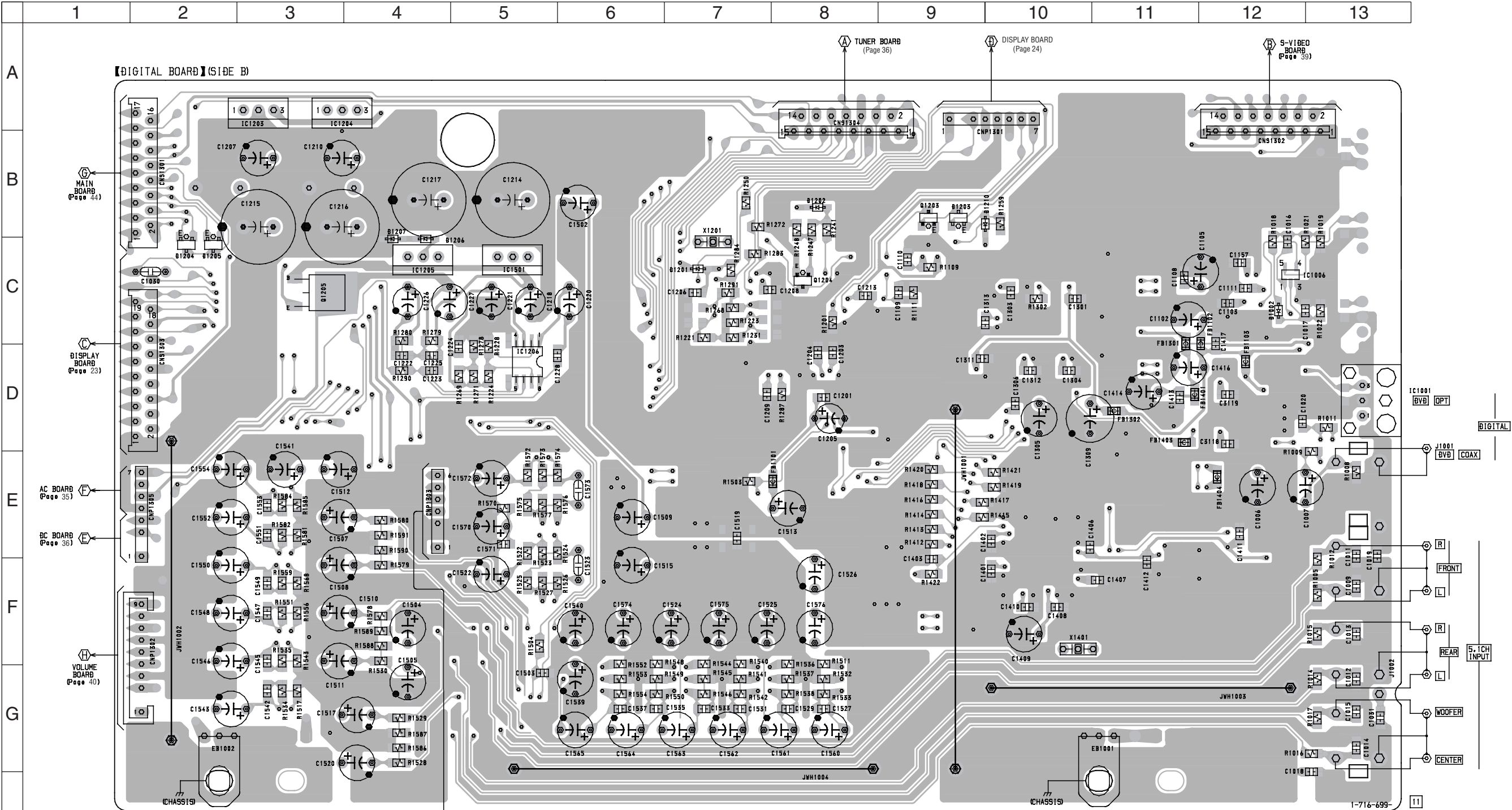
4-7. PRINTED WIRING BOARD DIGITAL SECTION(1/2) • See page 11 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1001	E-2	IC1007	E-2	IC1503	F-8	Q1202	E-6
D1101	C-3	IC1101	C-2	IC1504	F-10	Q1501	E-11
D1102	C-6	IC1102	C-6	IC1505	G-7	Q1502	F-11
D1208	A-9	IC1201	C-7	IC1506	G-8	Q1503	F-11
D1209	D-12	IC1202	F-6	IC1507	G-9	Q1504	G-11
D1211	A-9	IC1301	C-4	IC1508	G-12	Q1505	G-11
D1501	F-11	IC1401	F-5	IC1509	F-12	Q1506	H-11
D1504	G-11	IC1402	F-3	IC1510	E-12	Q1507	E-11
D1505	H-11	IC1403	E-3	IC1554	E-10		
		IC1404	D-3				
IC1005	D-2	IC1502	G-10	Q1201	E-6		

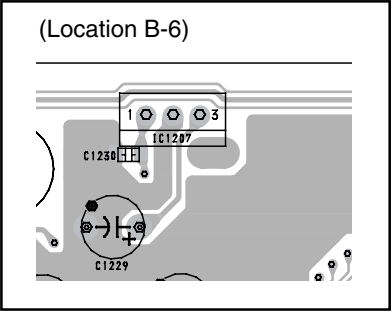
4-8. PRINTED WIRING BOARD DIGITAL SECTION(2/2) • See page 11 for Circuit Boards Location.



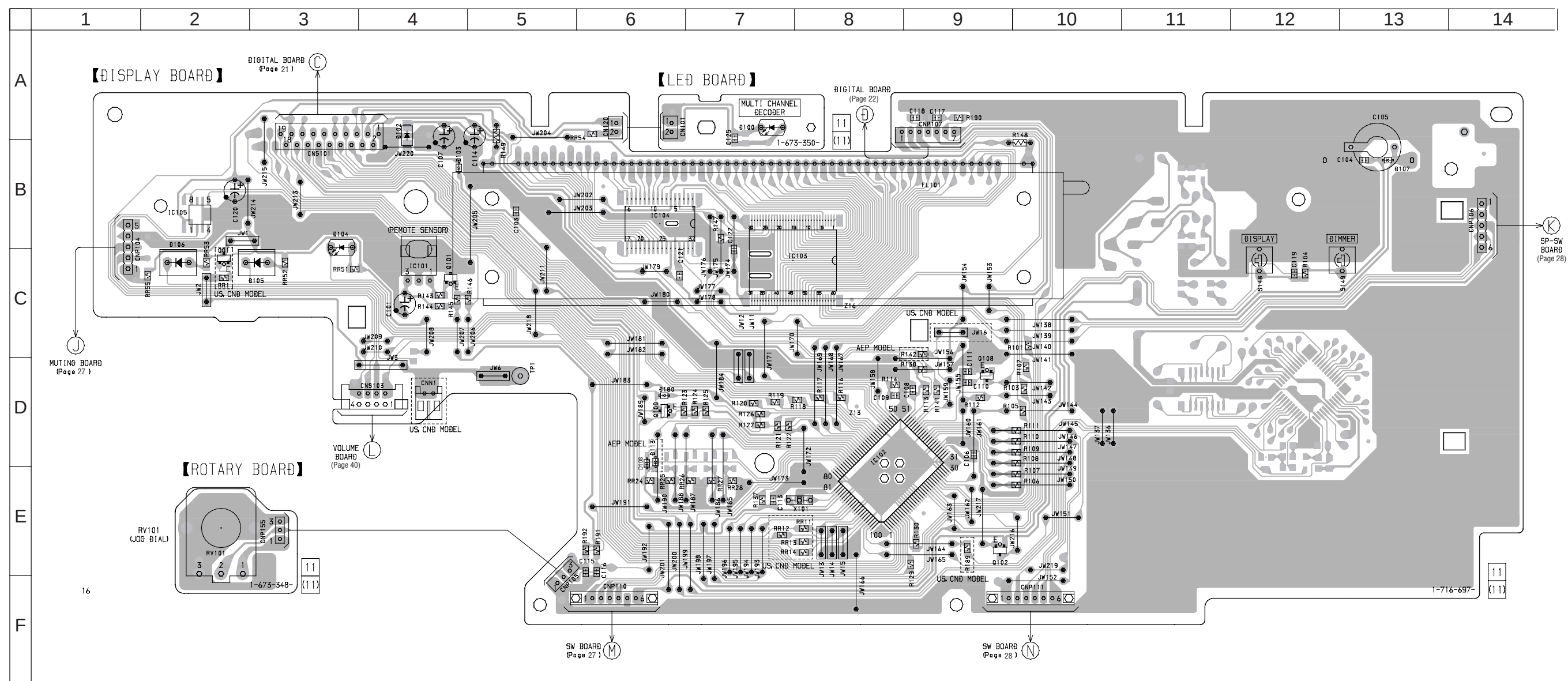
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1002	C-12	IC1006	C-12
D1201	C-7	IC1203	A-3
D1202	B-8	IC1204	A-3
D1203	B-9	IC1205	C-4
D1204	C-2	IC1206	D-5
D1205	C-2	IC1501	C-5
D1206	C-4		
D1207	C-4	Q1203	B-9
D1210	B-10	Q1204	C-8
		Q1205	C-3
IC1001	D-13		

DIGITAL PWB FROM SUFFIX-12



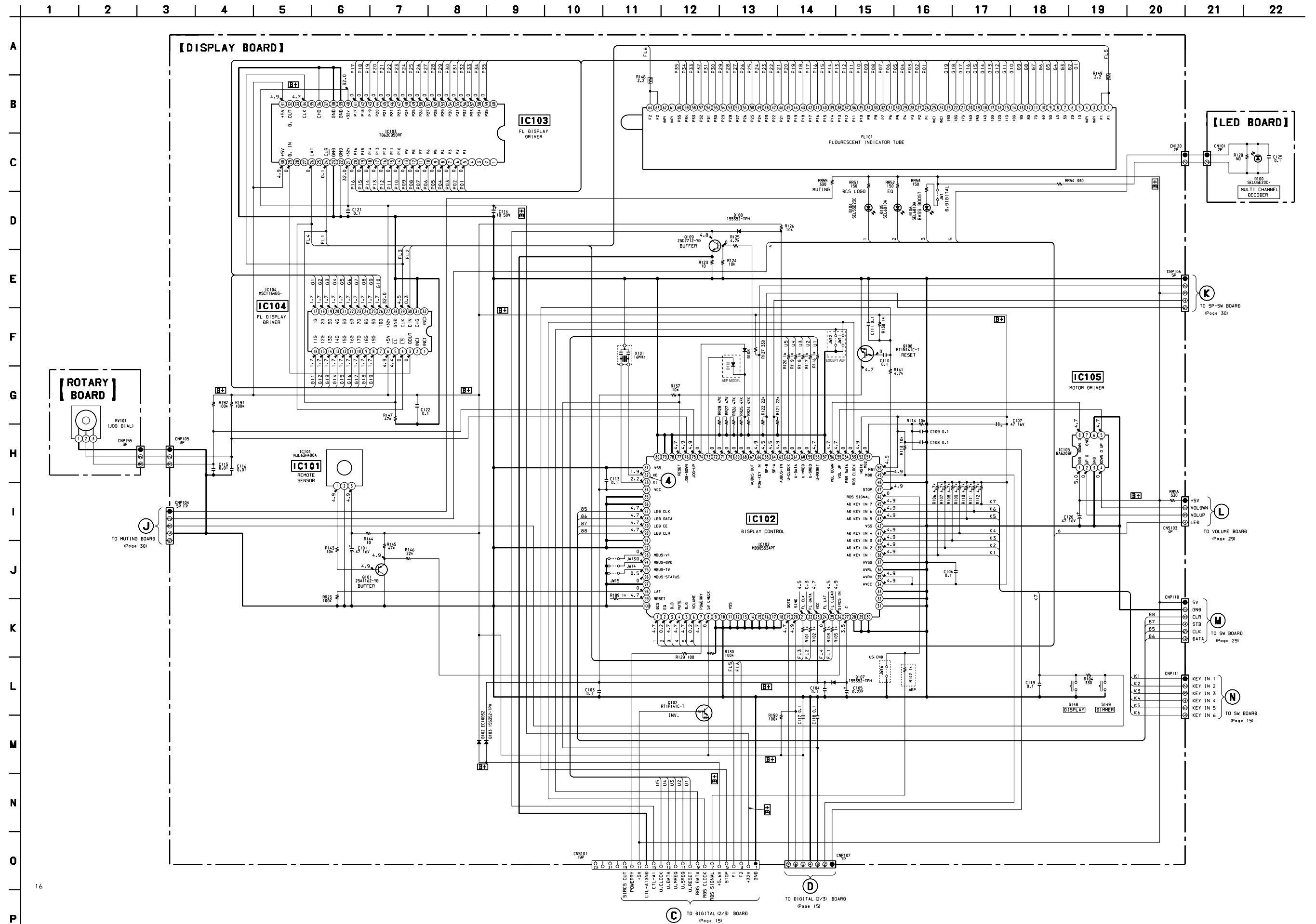
4-9. PRINTED WIRING BOARD DISPLAY SECTION • See page 11 for Circuit Boards Location.



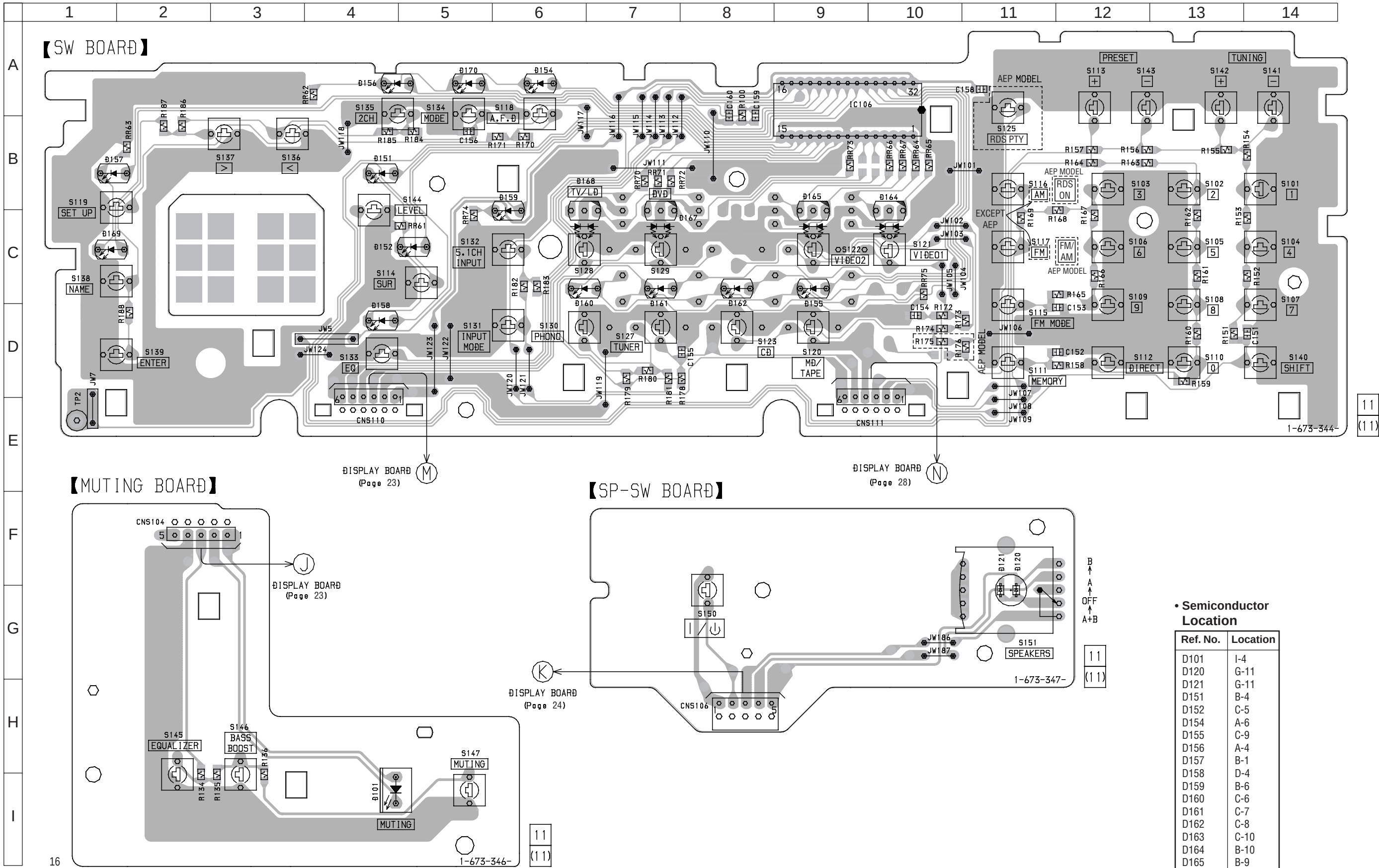
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D102	A-4	IC101	C-4
D103	B-4	IC102	E-8
D104	B-3	IC103	C-7
D105	C-3	IC104	B-6
D106	C-2	IC105	B-2
D107	B-13		
D108	D-6	Q101	C-4
D113	D-6	Q102	E-9
D180	D-6	Q108	D-9
		Q109	D-6
		QQ1	C-2

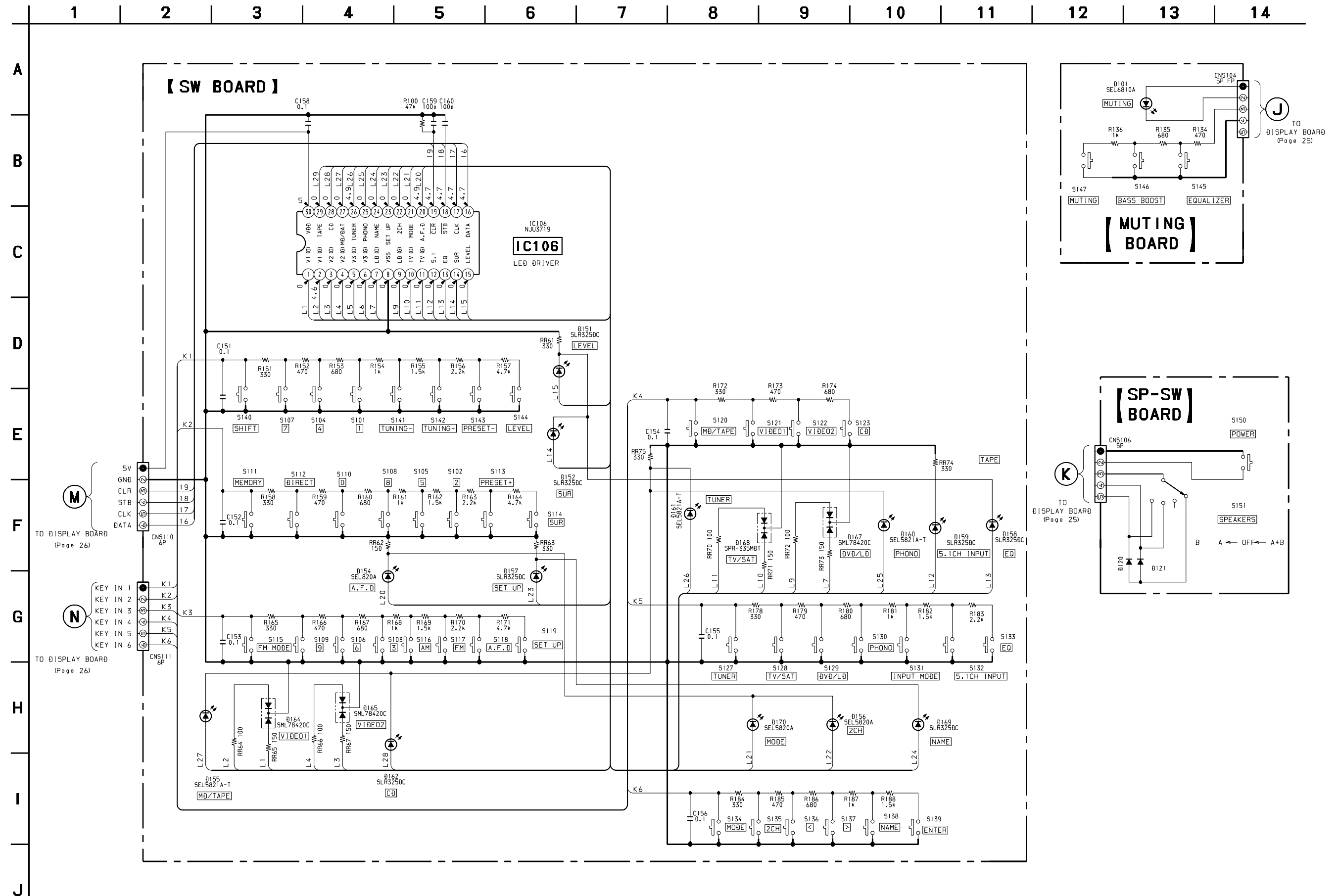
4-10. SCHEMATIC DIAGRAM DISPLAY SECTION • See page 12 for Waveforms. • See page 56 for IC Pin Functions. • See page 59 for IC Block Diagrams.



4-11. PRINTED WIRING BOARD SURROUND SECTION • See page 11 for Circuit Boards Location.



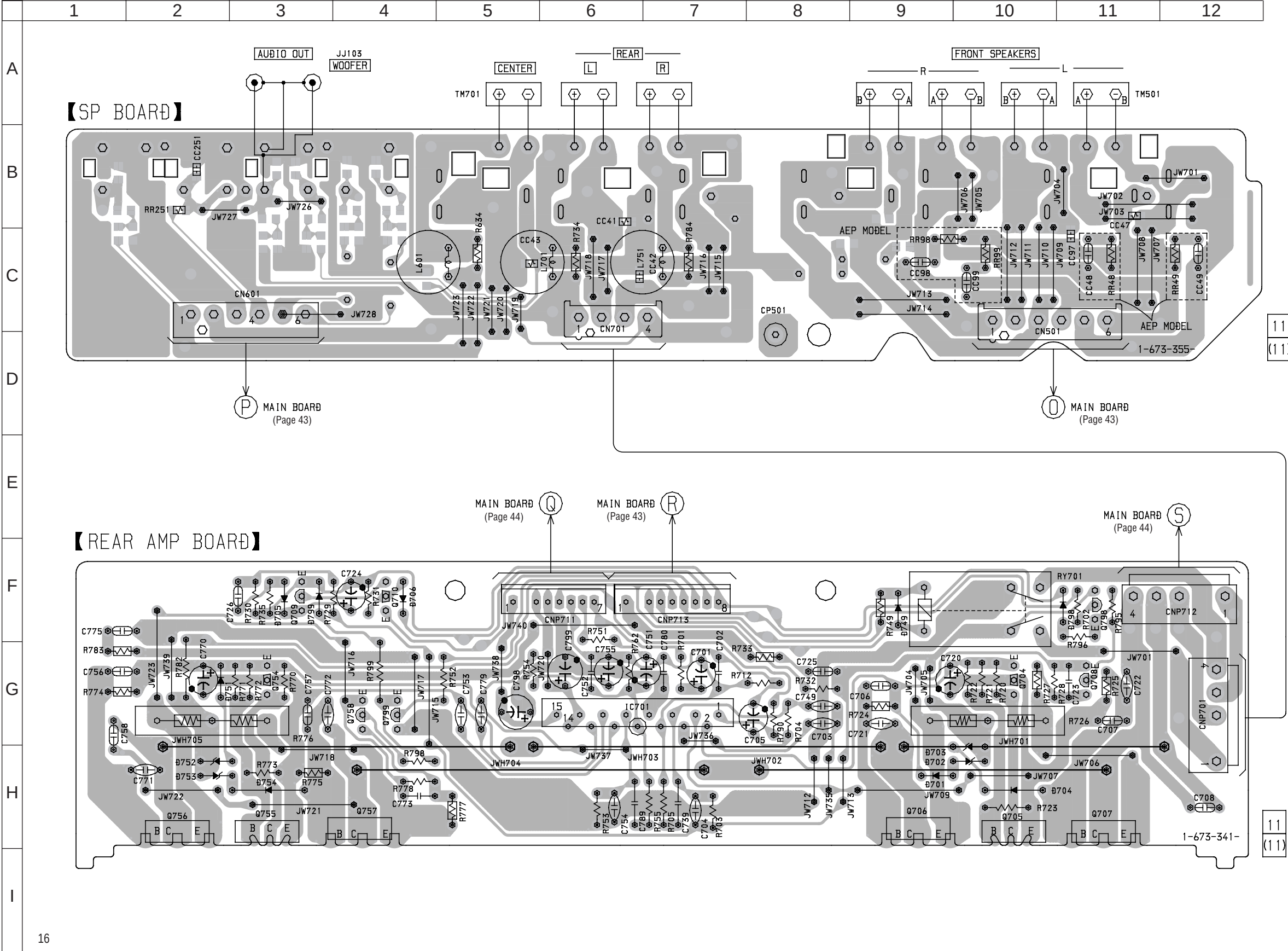
4-12. SCHEMATIC DIAGRAM SURROUND SECTION



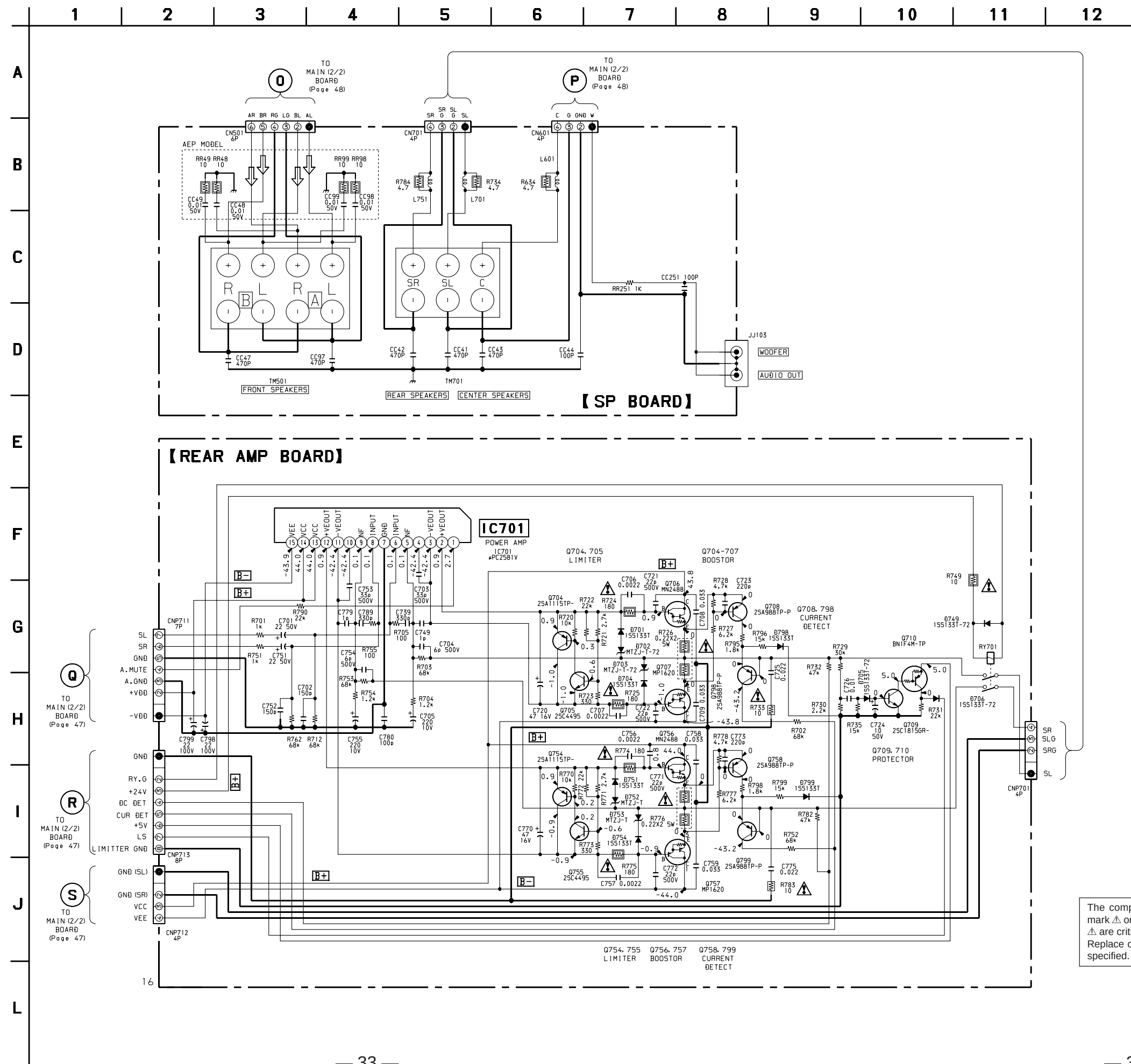
4-13. PRINTED WIRING BOARD REAR AMP SECTION • See page 11 for Circuit Boards Location.

• Semiconductor Location

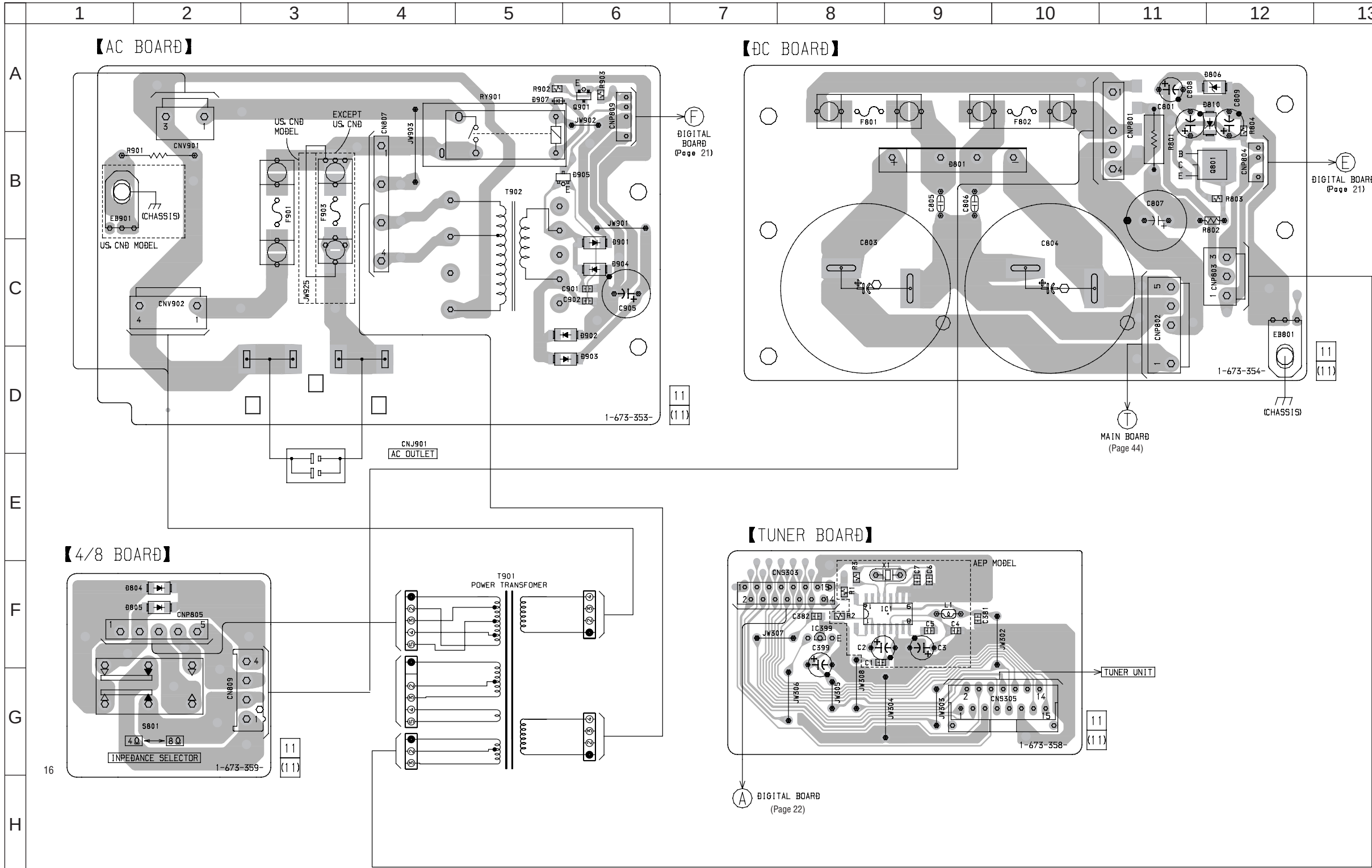
Ref. No.	Location
D701	H-9
D702	H-10
D703	H-10
D704	H-10
D705	F-3
D706	F-4
D749	F-9
D751	G-2
D752	H-2
D753	H-2
D754	H-3
D798	F-11
D799	F-3
IC701	G-6
Q704	G-10
Q705	H-10
Q706	H-9
Q707	H-11
Q708	G-11
Q709	F-3
Q710	F-4
Q754	G-3
Q755	H-3
Q756	H-2
Q757	H-4
Q758	G-4
Q798	F-11
Q799	G-4



4-14. SCHEMATIC DIAGRAM REAR AMP SECTION • See page 61 for IC Block Diagrams.



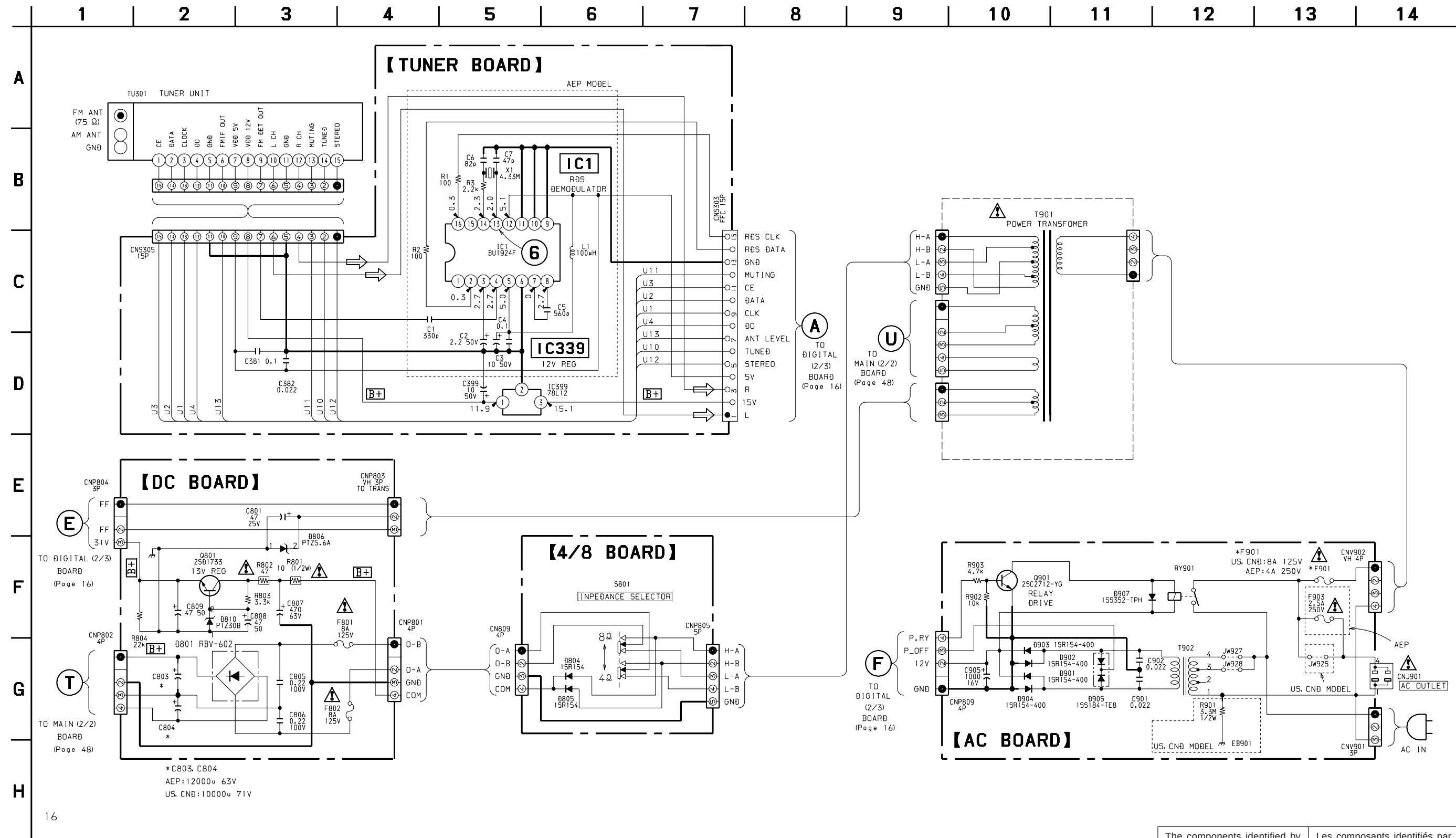
4-15. PRINTED WIRING BOARD POWER SECTION • See page 11 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D801	B-9
D804	F-2
D805	F-2
D806	A-12
D810	B-12
D901	C-6
D902	C-6
D903	D-6
D904	C-6
D905	B-6
D907	A-5
IC399	F-8
Q801	B-12
Q901	A-5

4-16. SCHEMATIC DIAGRAM POWER SECTION • See page 12 for Waveforms. • See page 61 for IC Block Diagrams.



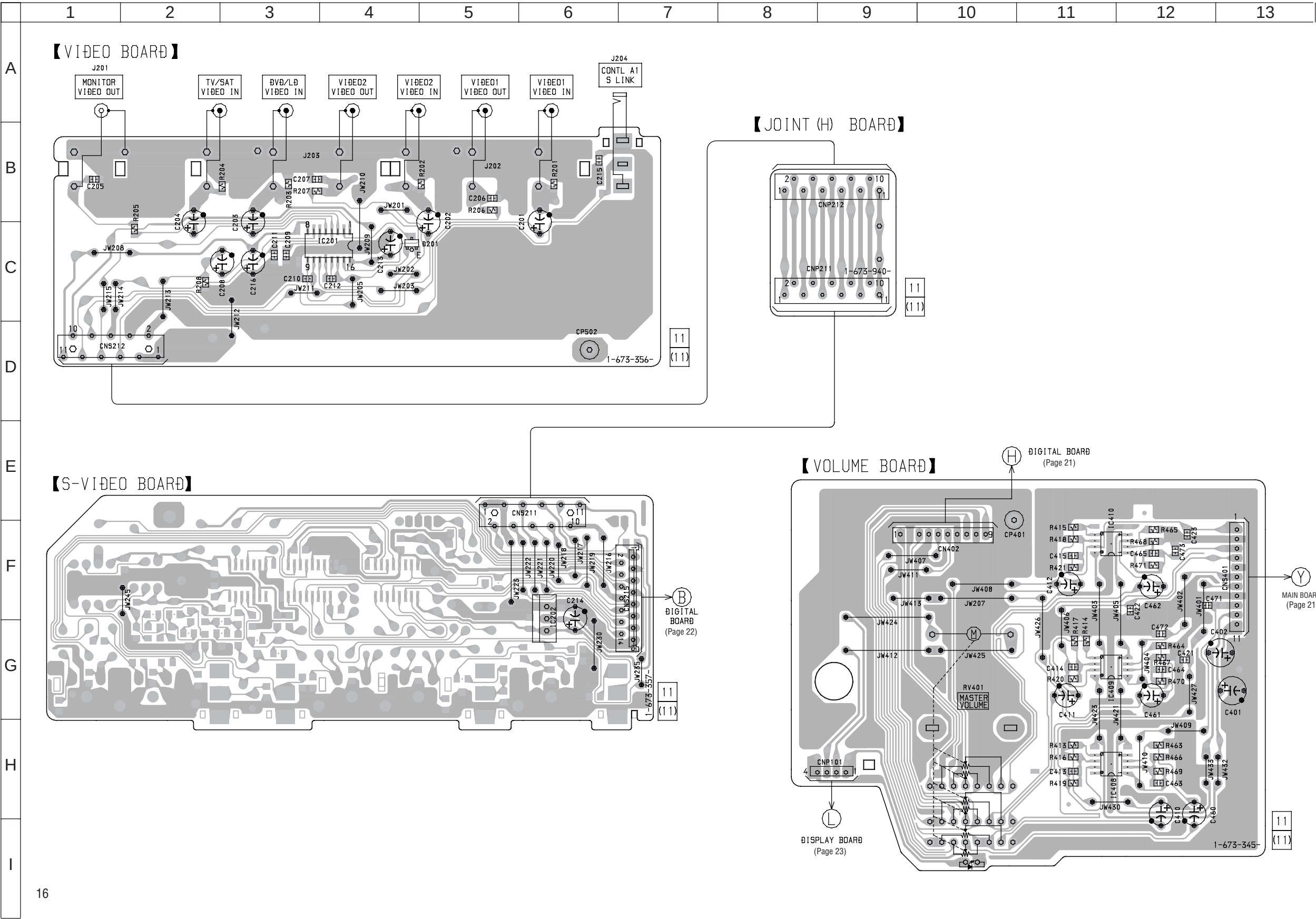
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

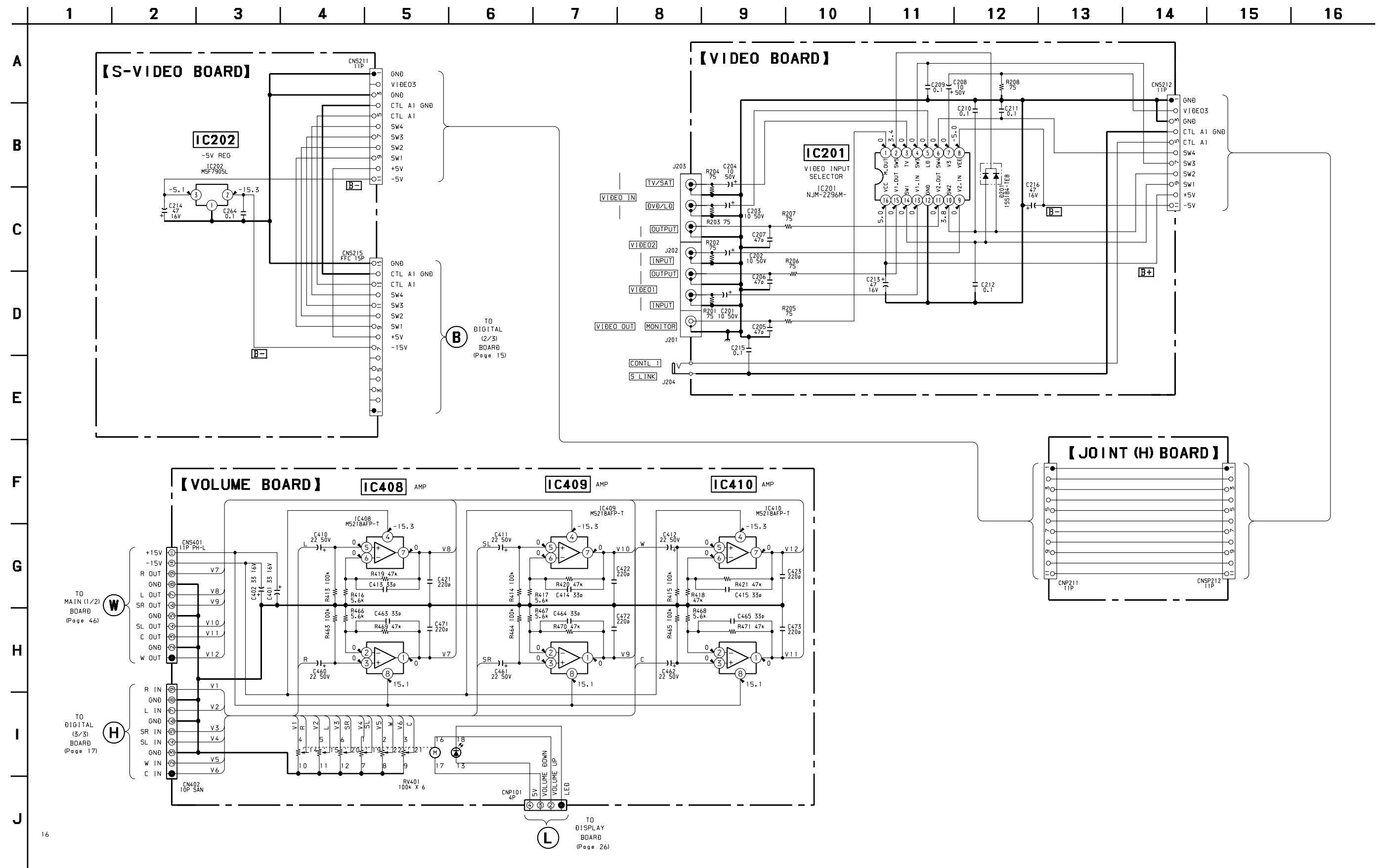
4-17. PRINTED WIRING BOARD VIDEO SECTION • See page 11 for Circuit Boards Location.

• Semiconductor Location

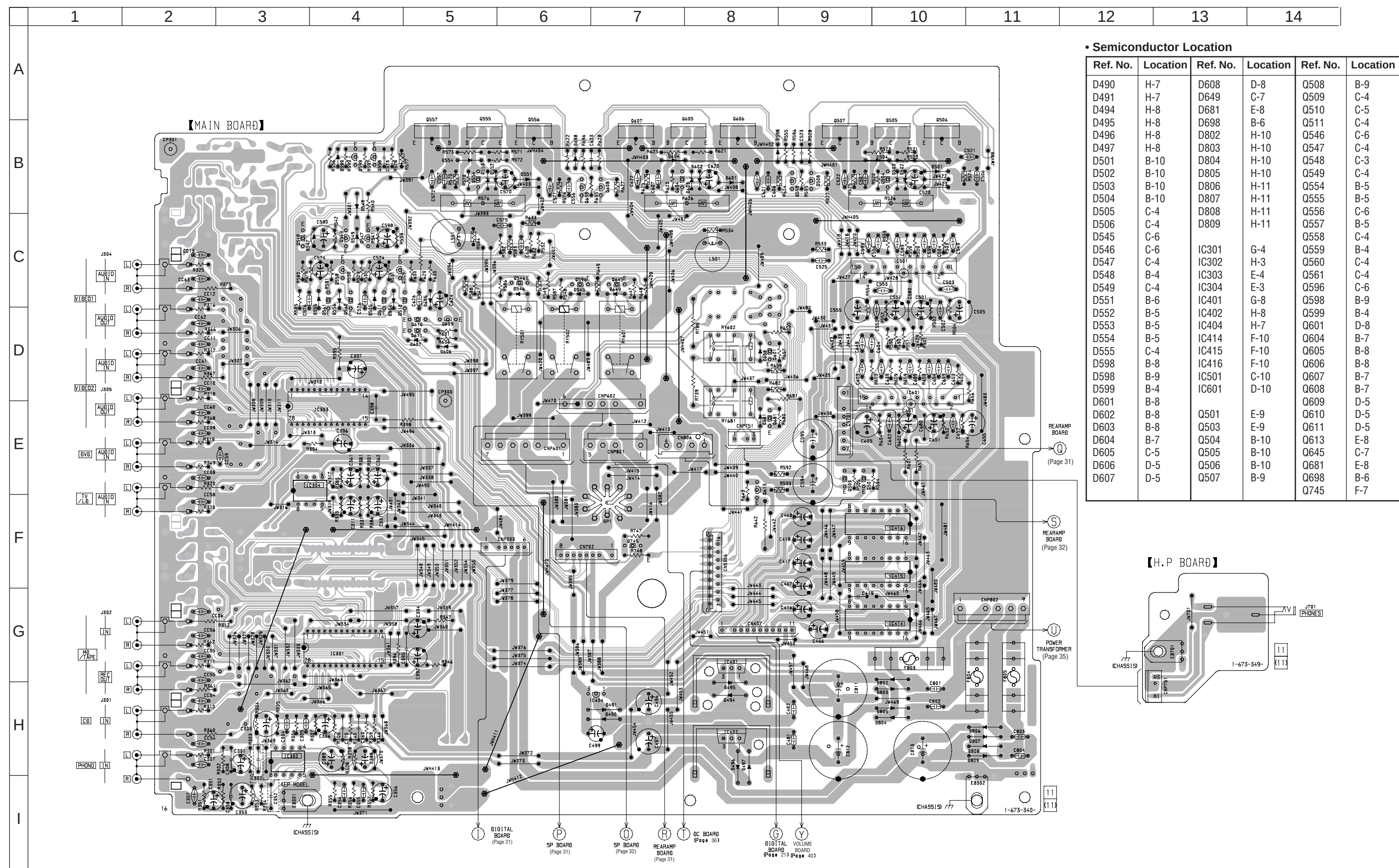
Ref. No.	Location
D201	C-4
D251	F-5
IC201	C-4
IC202	F-6
IC251	F-4
IC252	F-3
IC253	F-3
IC254	F-1
IC408	H-11
IC409	G-11
IC410	F-11
Q251	G-3
Q252	G-3
Q253	G-5
Q254	F-2
Q255	F-2
Q256	G-2
Q257	G-3
Q258	F-3



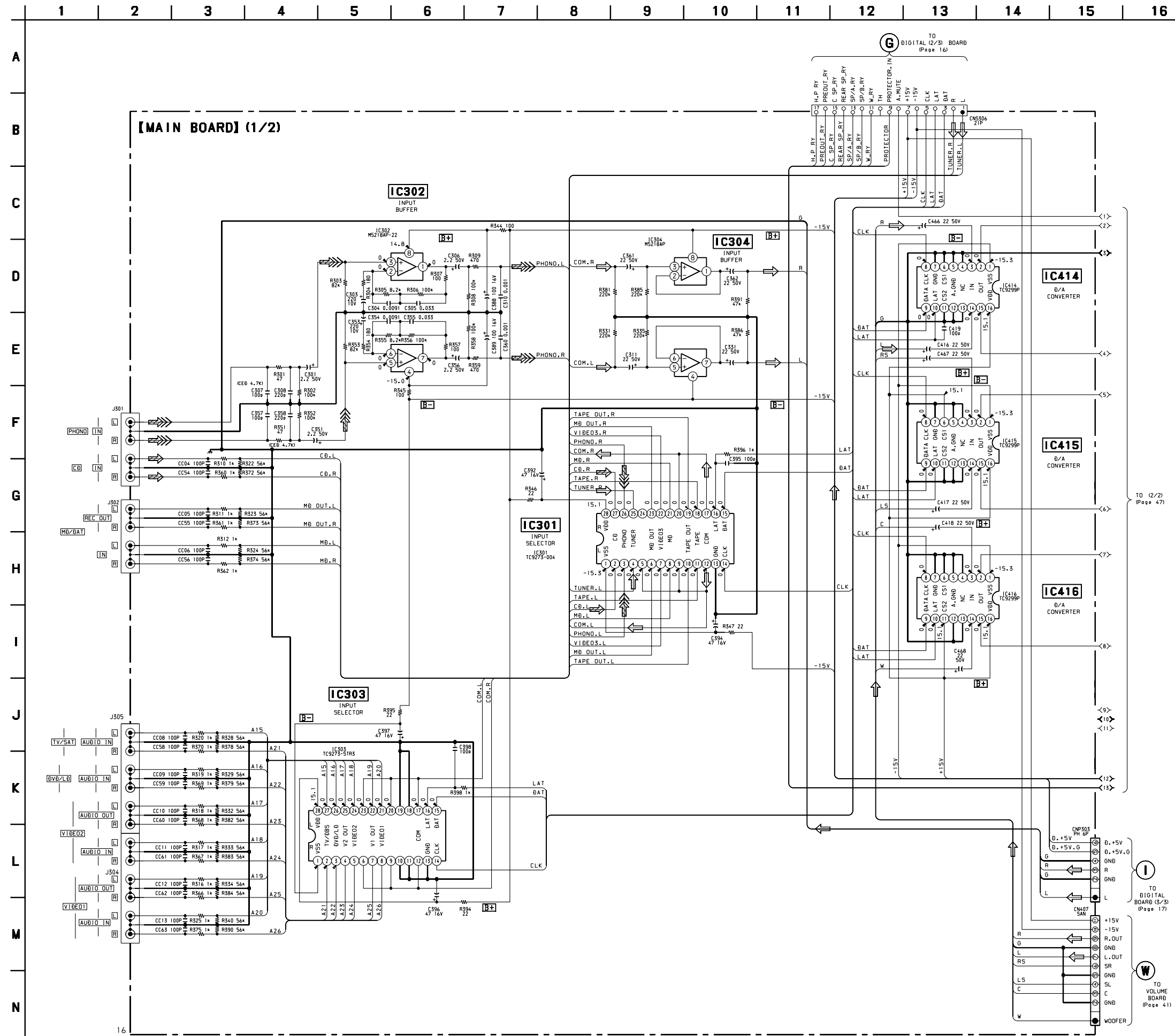
4-18. SCHEMATIC DIAGRAM VIDEO SECTION



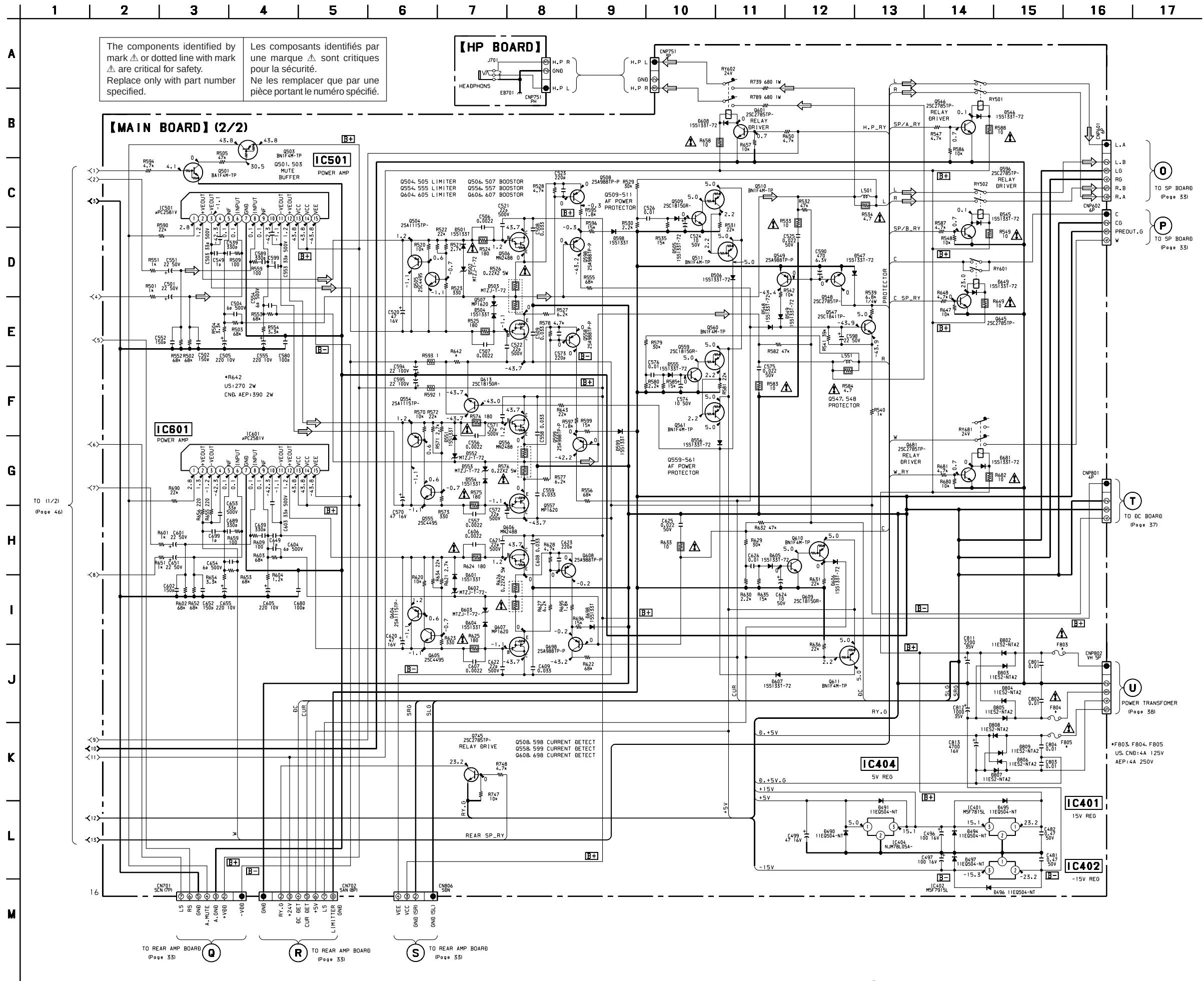
4-19. PRINTED WIRING BOARD MAIN SECTION • See page 11 for Circuit Boards Location.



4-20. SCHEMATIC DIAGRAM MAIN SECTION(1/2) • See page 61 for IC Block Diagrams.



4-21. SCHEMATIC DIAGRAM MAIN SECTION (2/2) • See page 43 for Printed Wiring Board. • See page 61 for IC Block Diagrams.



4-22. IC PIN FUNCTION DESCRIPTION

IC1401 CXD2712R AUDIO DSP(DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	VSS3	—	Ground
2 – 5	SOA – SOD	O	Serial data output
6, 7	ECJ0, ECJ1	I	Conditional jump input terminal (7pin Connected to ground)
8	—	NC	No connection
9	XHDWR	I	HCIF data write
10	XHDRD	I	HCIF data read
11	Vss4	—	Ground
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	—	Ground
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	—	Ground
32 – 40	ED0 – ED8	I/O	External RAM data input/output
41	Vss7	—	Ground
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 ground)
51	Vss8	—	Ground
52	VDD5	—	+3.3V
53 – 60	ED16 – ED23	I/O	External RAM data input/output
61	Vss9	—	Ground
62 – 69	ED24 – ED31	I/O	External RAM data input/output
70	XOE	O	External RAM output enable
71	Vss10	—	Ground
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 raw address strobe
76 – 80	EA0 – EA4	I/O	External RAM address output/test data input
81	Vss11	—	Ground
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	—	Ground
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 ground)
97	PLDIVF	I	PLL input frequency select “L” = 256Fs “H” = 128Fs (Connecting to ground)
98	PLDIVB	O	PLL output frequency select “L” = 768Fs “H” = 1024Fs (Connecting to ground)
99	CLKI	I	Master clock input
100	CLKO	O	Master clock output (Not used)
101	Vss1	—	Ground
102	VDD0	—	+3.3V
103	AVss	—	Ground 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 ground)
107	TST	I	Test data input “L” = normal “H” = test (Connecting to ground)
108	LRCT	I	Frequency counter input (Connecting to ground)
109	LROUT	O	LRCK0 divider output
110	BKOUT	O	BCK0 divider output
111	Vss2	—	Ground
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

IC1201 MB90573PFV-G-190-BND SYSTEM CONTROL(DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	SCLK	O	To CXD9511Q clock
2	SI	I	To CXD9511Q data input
3	SO	O	To CXD9511Q data output
4	CS	O	To CXD9511Q chip select
5	IC	O	To CXD9511Q reset(Pull Down near CXD9511Q)
6	D.SIG	I	ZERO data detect
7	5.1CH	O	5.1CH muting.
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	N.C	O	Not used (Connected to ground)
12	N.C	O	Not used (Connected to ground)
13	XHDWR	O	To CXD2712 data write
14	XHDRD	O	To CXD2712 data read
15	SOD	I	To CXD2712 LFE detection
16	XHDCS	O	To CXD2712 chip select
17	HD7	O	To CXD2712 HCIF data I/O
18	HD6	O	To CXD2712 HCIF data I/O
19	HD5	O	To CXD2712 HCIF data I/O
20	HD4	O	To CXD2712 HCIF data I/O
21	HD3	O	To CXD2712 HCIF data I/O
22	HD2	O	To CXD2712 HCIF data I/O
23	HD1	O	To CXD2712 HCIF data I/O
24	HD0	O	To CXD2712 HCIF data I/O
25	HA0	O	To CXD2712 address
26	XRST	O	To CXD2712 reset
27	HRDY	I	To CXD2712 ready
28	CS	O	To AK4526A chip select
29	CCLK	O	To AK4526A clock
30	CDTI	O	To AK4526A data input
31	CDTO	I	To AK4526A data output
32	PD	O	To AK4526A reset
33	VSS	—	Ground (Connected to ground)
34	C	—	External power regulator capacitor 0.1u is connected to this terminal.
35	96KHz	O	To AK4526A Dfs
36	N.C	I	Not used (Connected to ground)
37	N.C	I	Not used (Connected to ground)
38	DVCC	—	Digital power supply +5 V
39	DVSS	—	Digital ground (Connected to ground)
40	N.C	O	Not used (Connected to ground)
41	N.C	—	Not used (Connected to ground)
42	AVCC	—	Analog power supply +5 V
43	AVR+	—	Power supply +5 V
44	AVR-	—	Ground (Connected to ground)
45	AVSS	—	Ground (Connected to ground)
46	EVSTB	O	To TC9299 strobe
47	EVDATA	O	To TC9299 data
48	EVCLK	O	To TC9299 clock
49	DISPMR	I	Display master request (Connected to MCU U.MREQ)
50	DISPDATA	I	Display data (Connected to MCU U.DATA)

Pin No.	Pin Name	I/O	Description
51	SLVDTA/REQ	O	Slave data/request (Connected to MCU U.SREQ)
52	DISPCLK	I	Display clock (Connected to MCU U.CLOCK)
53	N.C	I	Not used (Connected to ground)
54	VCC	—	Power supply +5 V
55	S.LAT	O	To tuner latch
56	S.DATA	O	To tuner data
57	S.CLK	O	To tuner clock
58	DATA IN	I	PLL data in
59	AUSTOP	I	Auto stop input
60	STEREO	I	Stereo input
61	N.C	I	Not used (Connected to ground)
62	N.C	I	Not used (Connected to ground)
63	VSS	—	Ground (Connected to ground)
64	N.C	I	Not used (Connected to ground)
65	TH	I	TH Protector input
66	PROTEC	I	Protector input
67	STOP	I	AC power check
68	N.C	I	Not used (Connected to ground)
69	N.C	I	Not used (Connected to ground)
70	N.C	I	Not used (Connected to ground)
71	N.C	I	Not used (Connected to ground)
72	VIDEO(SW4)	O	Video select SW4
73	X1A	—	Not used
74	X0A	—	Not used
75	VIDEO(SW3)	O	Video select SW3
76	VIDEO(SW2)	O	Video select SW2
77	VIDEO(SW1)	O	Video select SW1
78	DIGITAL 1/4	I	Digital function
79	TAPE NO/ YES	I	Tape NO/YES input
80	VIDEO3 NO/ YES	I	I VIDEO3 NO/ YES input
81	DTS NO/ YES	I	DTS NO/ YES input
82	ACMUTE	O	Power amp mute ON/OFF output
83	96K NO/YES	I	96K NO/YES input
84	T.MUTE	O	Tuner muting
85	S.MUTE	O	Surround muting (Connected to ground)
86	HSTX	—	Hardware standby (Connected to power supply +5 V)
87	MD2	—	MD2 (To MCU MD2)
88	MD1	—	MD1 (Connect to power supply)
89	MD0	—	MD0 (To MCU MD0)
90	REST	I	Reset (Connected to MB90553 U.RESET)
91	VSS	—	Ground (Connected to ground)
92	XO	—	External ceramic filter 16MHz is connected to this terminal
93	XI	—	External ceramic filter 16MHz is connected to this terminal
94	VCC	—	Power supply +5V
95	PO0	I	Flash memory rewrite (Connected to ground)
96	PO1	I	Flash memory rewrite (Connected to ground)
97	RY-4/B	O	4/8 relay
98	RY-PRE	O	Pre relay
99	RY-FRONT/A	O	Front speaker A relay
100	RY-FRONT/B	O	Front speaker B relay

Pin No.	Pin Name	I/O	Description
101	RY-CENTER	O	Center speaker relay
102	RY-REAR	O	Rear speaker relay
103	RY-WOOFER	O	Sub Woofer relay
104	RY-HP	O	Head phone relay
105	RY-POWER	O	Power relay
106	ANG/DIG	O	Analog/digital selection
107	DIG-INB	O	Digital input select B
108	DIG-INA	O	Digital input select A
109	XMODE	O	Direct pass relay
110	CL	O	To LC89055 clock
111	CE	O	To LC89055 latch
112	DI	O	To LC89055 data
113	DO	I	To LC89055 C-bit
114	ERROR	I	Error output to LC89055
115	BYSYNC	I	Non PCM sync detect flag LC89055
116	AUTO	I	Non PCM data detect flag LC89056
117	CSFLAG	I	C-bit change flag LC89055
118	XSTATE	I	Xtal status Frag LC89055
119	VSS	—	Ground (Connected to ground)
120	N.C	—	Not used (Connected to ground)

IC1503 AK4526A A/D,D/A CONVERTER (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 $P/\bar{S}$ = “L” (Connected to ground)
2	$\overline{\text{MCLK}}$	I	MCKO clock frequency select pin “L”: MCLK, “H”: MCLK/2. ORed with serial control register if $P/\bar{S}$ = “L” (Connected to ground)
3	$\bar{S}/M$	I	Audio data master/slave mode select pin “L”: slave mode, “H”: master mode (Connected to ground)
4	BCLK	I/O	Audio serial data clock pin
5	LRCK	I/O	Input/output channel clock pin
6	SDT11	I	DAC1 audio serial data input pin
7	SDT12	I	DAC2 audio serial data input pin
8	SDT13	I	DAC3 audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	AUX audio serial data input pin (Connected to ground)
11	DFS	I	Double speed sampling mode pin “L”: normal speed, “H”: double speed ORed with serial control register if $P/\bar{S}$ = “L” (Connected to ground)
12 – 13	DEM1 – DEM0	I	De-emphasis pin ORed with serial control register if $P/\bar{S}$ = “L” (Connected to ground)
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 ground)
19	ICKS1	I	Input clock select 1 pin (Connected to ground)
20	ICKS0	I	Input clock select 0 pin (Connected to ground)
21	CAD1	I	Chip address pin Used during the serial control mode. (Connected to ground)
22	CAD0	I	Chip address pin Used during the serial control mode. (Connected to ground)
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #1 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN–	I	Lch analog negative input pin
30	LIN+	I	Lch analog positive input pin

Pin No.	Pin Name	I/O	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 ground)
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 ground)
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, $\overline{\text{PD}}$, $\overline{\text{S/P}}$, DFS, DEM0, DEM1, CAD0, CAD1, $\overline{\text{S/M}}$, $\overline{\text{MCLK}}$, SDOS are not driven, then TEST, ICKS0, ICKS1, CAD0, CAD1, must be tied to either AVSS or AVDD. $\overline{\text{PD}}$, $\overline{\text{S/P}}$, DFS, DEM0, DEM1, $\overline{\text{S/M}}$, $\overline{\text{MCLK}}$, SDOS must be tied to either DVSS or DVDD.

IC102 MB90553APF-G-138-BND DISPLAY CONTROL(DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	DCS	O	DCS logo display data output to LED.
2	EQ	O	EQ ON/OFF display data output to LED.
3	B.B	O	BASS BOOST display data output to LED.
4	MUTE	O	MUTING display data output to LED.
5	D.D	O	DOLBY DIGITAL display data output to LED.
6	VOLUME	O	VOLUME display data output to LED.
7	POWER RY	O	Power reay display.
8	5V CHECK	O	Power check (+5V)
9	—	—	Not used. (Connected to ground)
10	—	—	Not used. (Connected to ground)
11	VSS	—	Ground (Connected to ground)
12	—	—	Not used. (Connected to ground)
13	—	—	Not used. (Connected to ground)
14	—	—	Not used. (Connected to ground)
15	—	—	Not used. (Connected to ground)
16	—	—	Not used. (Connected to ground)
17	—	—	Not used. (Connected to ground)
18	—	—	Not used. (Connected to ground)
19	SOT0	O	UART data output to rewrite flash memory
20	SIN0	I	UART data intput to rewrite flash memory
21	FL CLK	O	Clock output to flourescent display tube
22	FL DATA	O	Data output to flourescent 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 ground)
29	—	—	Not used (Connected to ground)
30	—	—	Not used (Connected to ground)
31	—	—	Not used (Connected to ground)
32	—	—	Not used (Connected to gorund)
33	—	—	Not used (Connected to ground)
34	AVCC	—	Analog power supply +5 V
35	AVRH	—	AVRH (Connected to power supply +5 V)
36	AVRL	—	SVRL (Connected to ground)
37	AVSS	—	Ground (Connected to ground)
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	—	Ground (Connected to ground)
43	AD KEY IN 5	I	Key input 5
44	AD KEY IN 6	I	Key input 6
45	AD KEY IN 7	I	Key input 7
46	RDS SIGNAL	I	RDS signal input.
47	STOP	I	Stop input
48	—	—	Not used (Connected to ground)
49	MD 0	I	MD 0 (To MD0 of MB90573)
50	MD 1	I	MD 1 (Connected to power supply +5 V)

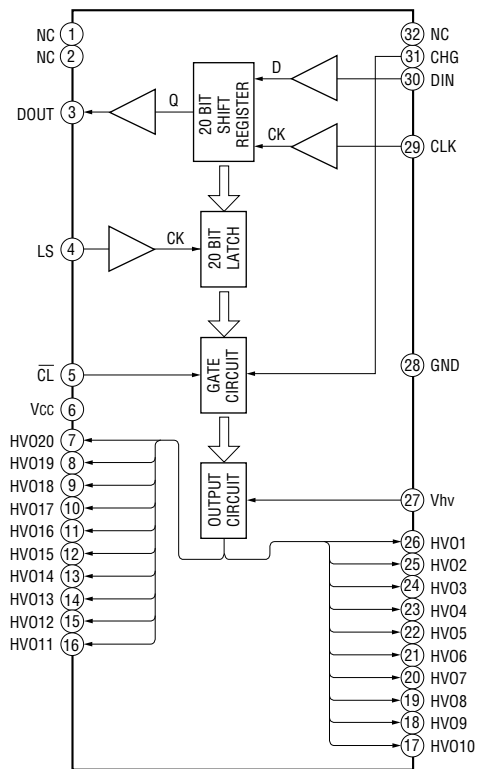
Pin No.	Pin Name	I/O	Description
51	MD 2	I	MD 2 (To MD2 of MB90573)
52	HSTX	I	Hardware STANDBY input
53	RDS CLOCK	I	RDS clock input
54	RDS DATA	I	RDS data input
55	VOL UP	O	Volume up data output
56	VOL DOWN	O	Volume down data output
57	—	—	Not used (Connected to ground)
58	U-RESET	O	Reset output (Connected to MB90573 RESET)
59	U-SREQ	I	Slave request and data input (Connected to MB90573 SLV DATA/REQ)
60	U-MREQ	O	Master request output (Connected to MB90573 DISPMR)
61	U-DATA	O	Master data output (Connected to MB90573 DISP DATA)
62	U-CLOCK	O	Master clock output (Connected to MB90573 DISPCLK)
63	AUBUS-IN	I	Audio bus input
64	SP-A	I	Speaker A signal input.
65	SP-B	I	Speaker B signal input.
66	POWER-KEY IN	I	POWER-KEY input.
67	AUBUS-OUT	O	Audio bus output
68	VIRSION IN1	I	Virsion input.
69	VIRSION IN 2	I	Virsion input.
70	VIRSION IN 3	I	Virsion input.
71	VIRSION IN 4	I	Virsion input.
72	VIRSION IN 5	I	Virsion input.
73	VIRSION OUT 1	O	Virsion output.
74	VIRSION OUT 2	O	Virsion output.
75	JOG-UP	I	Function encoder up input.
76	JOG-DOWN	I	Function encoder down input.
77	RESET	I	Reset (Display MCU)
78	—	—	Not used (Connected to ground)
79	—	—	Not used (Connected to ground)
80	—	—	Not used (Connected to ground)
81	VSS	—	Ground (Connected to ground)
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 ground)
86	—	—	Not used. (Connected to ground)
87	LED CLK	I	LED clock input.
88	LED DATA	I	LED data input.
89	LED CE	I	LED chip enable input.
90	LED CLR	I	LED clear input.
91	—	—	Not used. (Connected to ground)
92	—	—	Not used. (Connected to ground)
93	MBUS-V1	I	V1 input from MBUS
94	MBUS-DVD	I	DVD input from MBUS
95	MBUS-TV	I	TV input from MBUS
96	MBUS-STATUS	I	STATUS input from MBUS
97	—	—	Not used. (Connected to ground)
98	LAT	O	Learning microprocessor latch output
99	—	—	Not used. (Connected to ground)
100	—	—	Not used. (Connected to ground)

IC1101 LC89055W DIGITAL AUDIO I/F RECEIVER (DIGITAL BOARD)

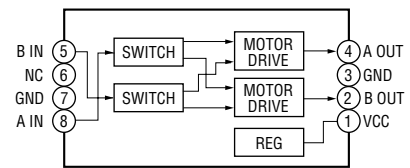
Pin No.	Pin Name	I/O	Description
1	DISEL	I	Input data select. (connected to ground.)
2	DOUT	O	EIAJ data and parity flag output terminal (Not used)
3	DIN0	I	Amplifier integrate data input terminal
4	DIN1	O	Amplifier integrate data input terminal (Connecting to ground)
5	DIN2	I	Amplifier integrate data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

4-23. IC BLOCK DIAGRAMS

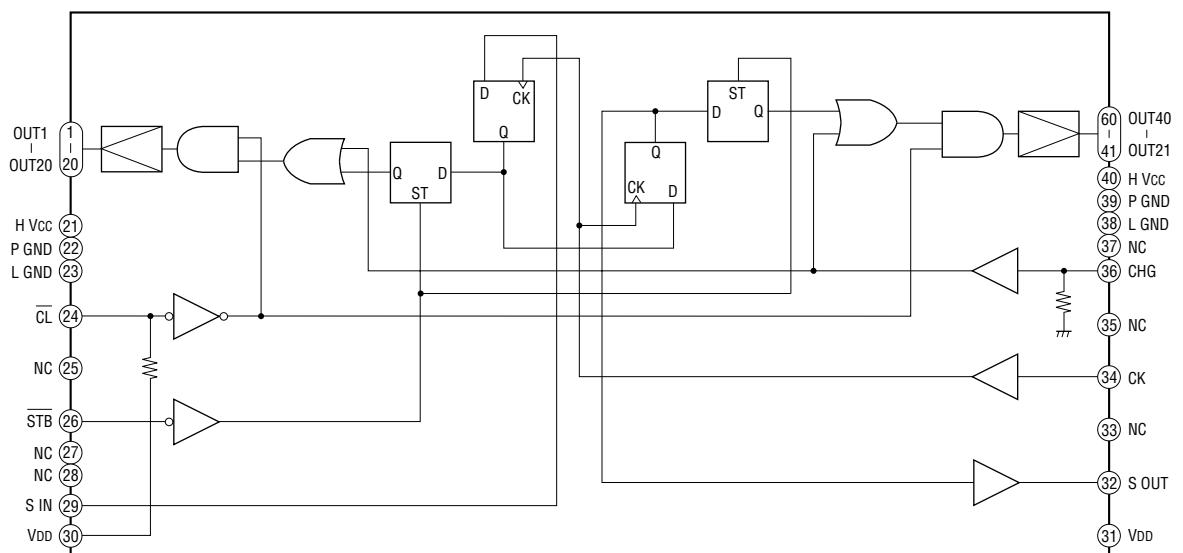
IC103 MSC1164GS-K (DISPLAY SECTION)



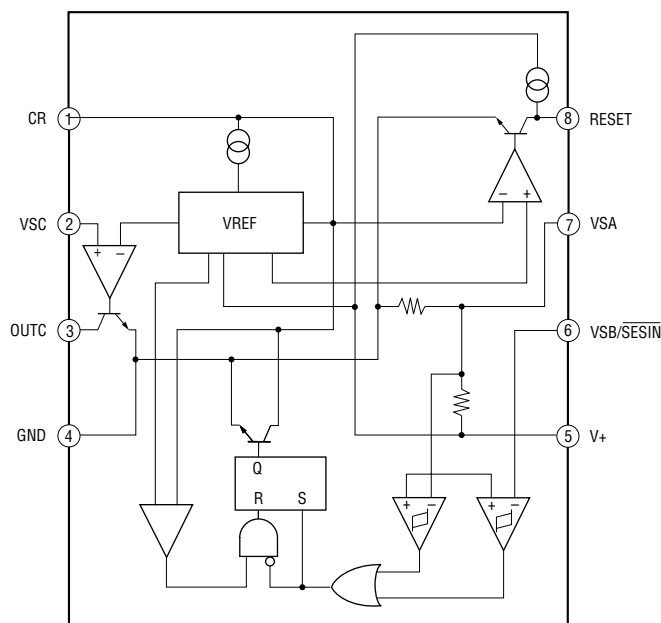
IC105 BA6208F (DISPLAY SECTION)



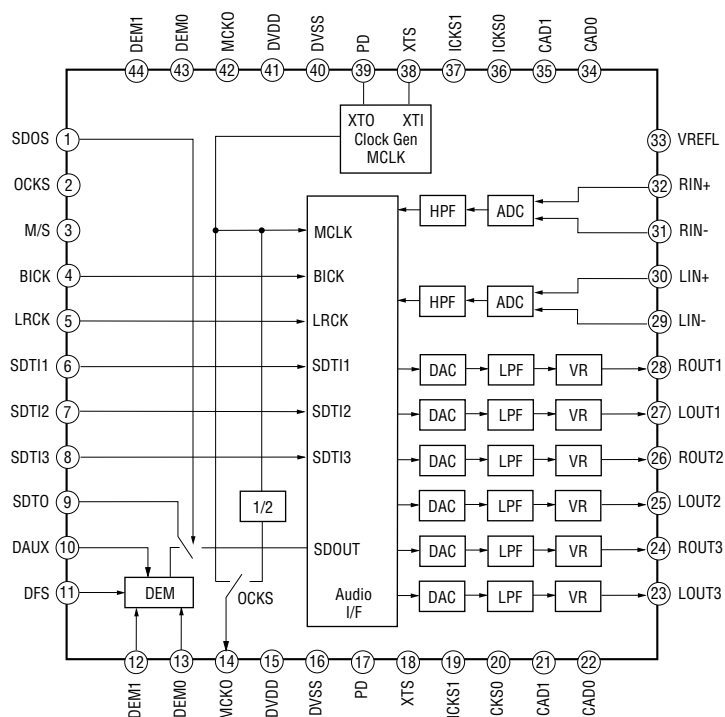
IC103 TD62C950RF (DISPLAY SECTION)



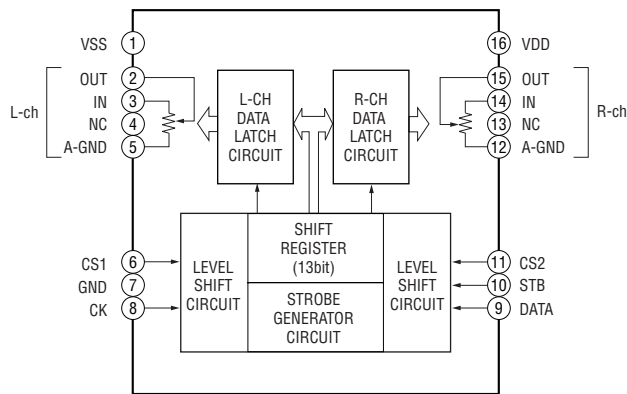
IC1206 NJM2103 (DIGITAL SECTION)



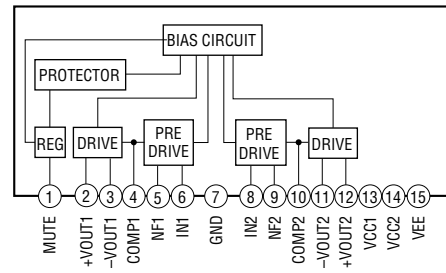
IC1503 AK4526 (DIGITAL SECTION)



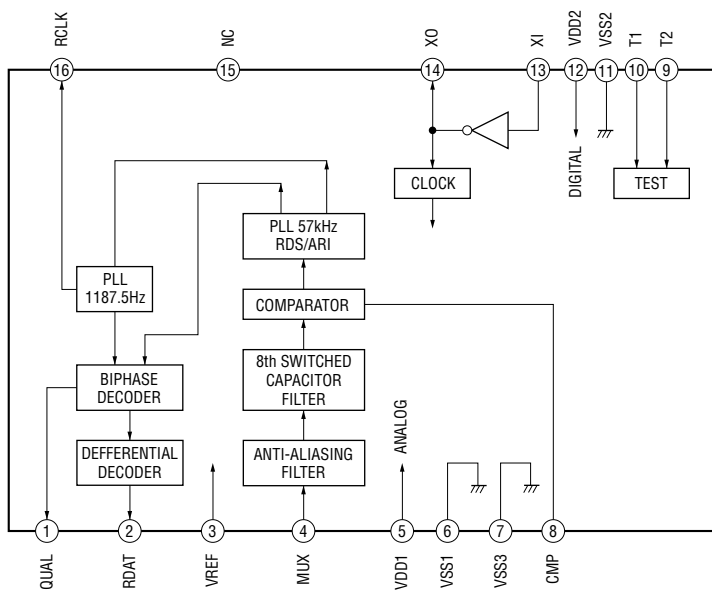
IC414, 415, 416 TC9299P (MAIN SECTION)



IC501, 601 μ PC2581V (MAIN SECTION) IC701 μ PC2581V (REAR AMP SECTION)



IC1 BU1924F (TUNER SECTION)



SECTION 5 EXPLODED VIEWS

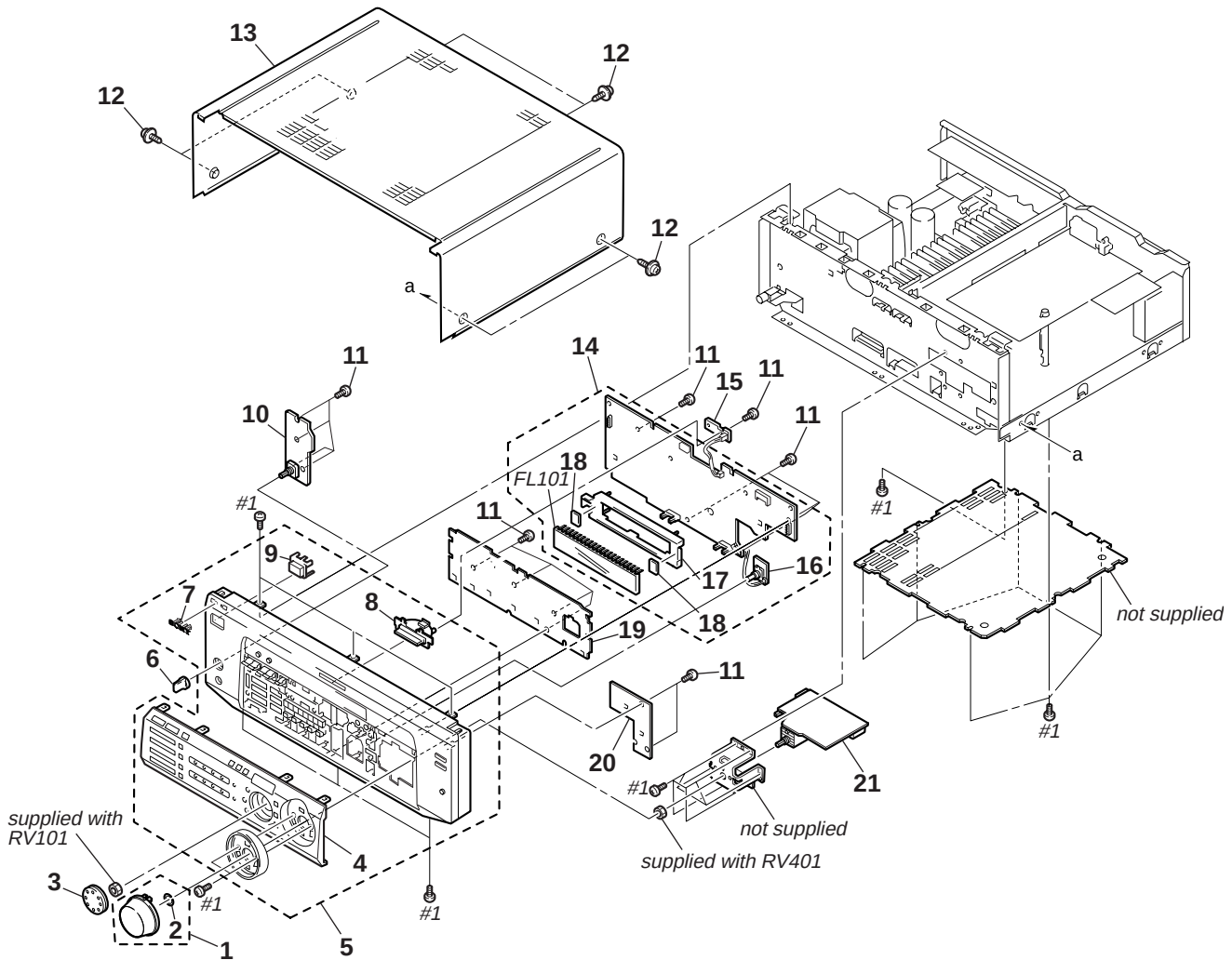
NOTE:

- 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 model

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

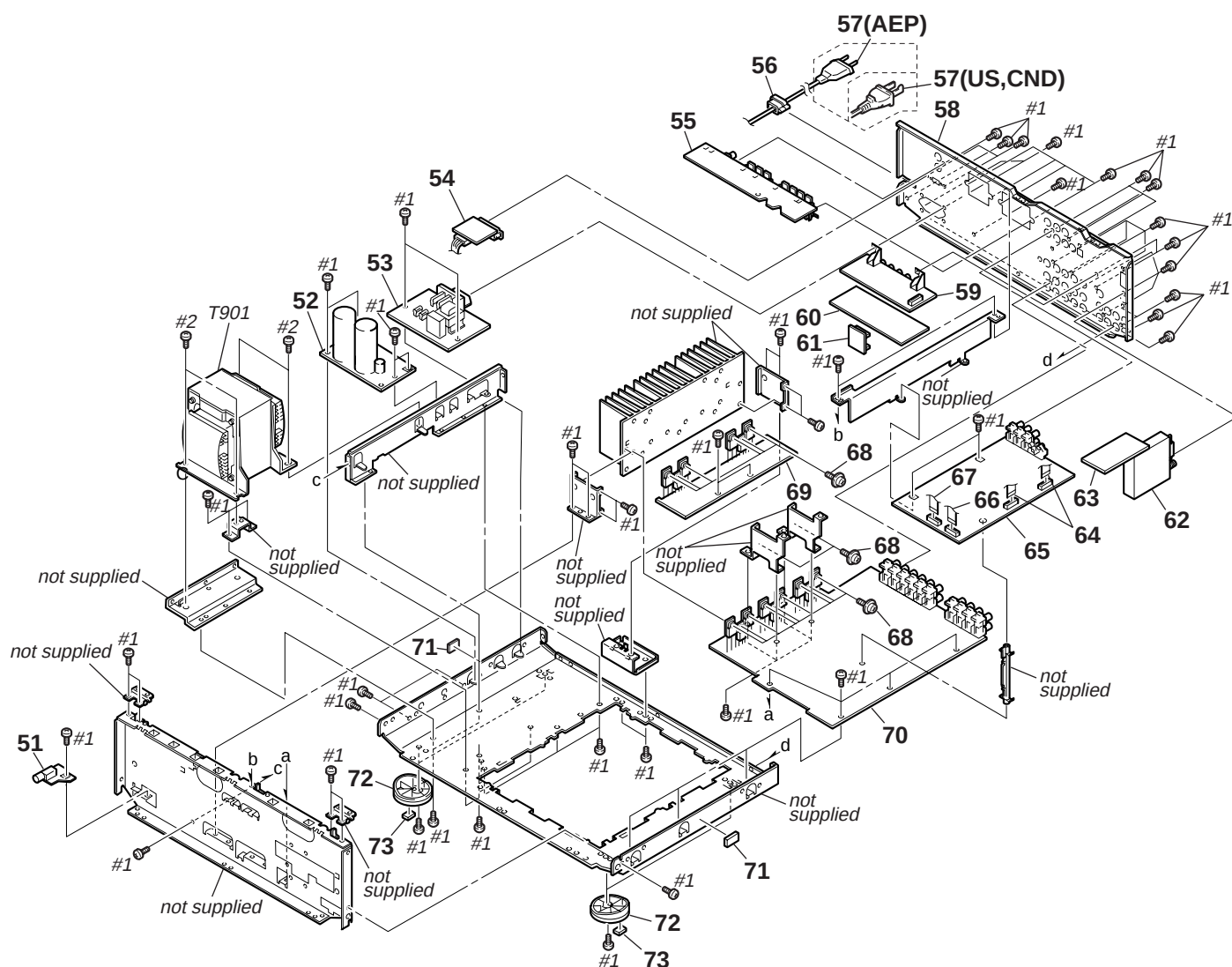
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	X-4951-035-1	KNOB (VOL) ASSY		* 13	4-982-682-01	CASE (414532) (US,CND)	
2	3-350-426-01	SPRING, RING		13	X-4947-722-1	CASE ASSY (AEP)	
3	4-221-474-01	KNOB (JOG)		* 14	A-4419-393-A	DISPLAY BOARD, COMPLETE(US,CND)	
4	4-217-853-11	ESCUTCHEON (US,CND)		* 14	A-4419-395-A	DISPLAY BOARD, COMPLETE(AEP)	
4	4-217-853-51	ESCUTCHEON (AEP)		* 15	1-673-350-11	LED BOARD	
5	X-4951-212-1	BASE (635U) ASSY, PANEL (US,CND)		* 16	1-673-348-11	ROTARY BOARD	
5	X-4951-252-1	BASE (635CED) ASSY, PANEL (AEP)		* 17	4-990-797-01	HOLDER (FL)	
6	4-957-383-01	KNOB (F14)		* 18	4-921-941-01	CUSHION (FL)	
7	4-996-698-01	EMBLEM, SONY		19	A-4419-404-A	SW BOARD, COMPLETE(US,CND)	
8	X-4951-572-1	ESCUTCHEON (WIN) ASSY		* 19	A-4419-405-A	SW BOARD, COMPLETE(AEP)	
9	4-996-683-21	BUTTON (POWER)		* 20	1-673-346-11	MUTING BOARD	
* 10	1-673-347-11	SP-SW BOARD		* 21	A-4419-407-A	VOLUME BOARD, COMPLETE(US,CND)	
11	4-951-620-01	SCREW (2.6 × 8), +BVTP		21	A-4426-060-A	VOLUME BOARD, COMPLETE(AEP)	
12	4-210-291-01	SCREW (CASE 3 TP2)		FL101	1-517-781-11	INDICATOR TUBE, FLUORESCENT	

5-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 51	1-673-349-11	H.P BOARD		65	A-4426-045-A	DIGITAL BOARD, COMPLETE (AEP)	
* 52	1-673-354-11	DC BOARD		66	1-773-048-11	WIRE (FLAT TYPE) (17 CORE)	
* 53	1-673-353-11	AC BOARD		67	1-773-112-11	WIRE (FLAT TYPE) (19 CORE)	
* 54	1-673-359-11	4/8 BOARD		68	3-905-609-11	SCREW (TRANSISTOR)	
* 55	1-673-355-11	SP BOARD		69	A-4419-390-A	REAR-AMP BOARD, COMPLETE(US,CND)	
* 56	3-703-244-00	BUSHING (2104), CORD		* 69	A-4419-391-A	REAR-AMP BOARD, COMPLETE(AEP)	
△ 57	1-769-743-11	CORD, POWER (CND)		* 70	A-4419-379-A	MAIN BOARD, COMPLETE(US)	
△ 57	1-769-744-11	CORD, POWER (AEP)		* 70	A-4419-380-A	MAIN BOARD, COMPLETE(CND)	
△ 57	1-783-531-11	CORD, POWER (US)		* 70	A-4419-382-A	MAIN BOARD, COMPLETE(AEP)	
* 58	4-217-900-01	PANEL, BACK (US)		71	4-985-642-01	CUSHION	
* 58	4-217-900-21	PANEL, BACK (AEP)		72	X-4947-207-1	FOOT ASSY (F50150S) (AEP)	
* 58	4-218-334-01	PANEL, BACK (CND)		72	X-4947-208-1	FOOT ASSY (F50150S) (US,CND)	
* 59	1-673-357-11	S-VIDEO BOARD		73	4-977-358-11	CUSHION (US,CND)	
* 60	1-673-356-11	VIDEO BOARD		△ T901	1-433-771-11	TRANSFORMER, POWER (AEP)	
* 61	1-673-940-11	JOINT(H) BOARD		△ T901	1-433-884-11	TRANSFORMER, POWER (US)	
* 63	1-673-358-11	TUNER BOARD		△ T901	1-433-885-11	TRANSFORMER, POWER (CND)	
* 64	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)		TU301	1-693-407-11	TUNER (US,CND)	
* 65	A-4419-439-A	DIGITAL BOARD, COMPLETE (US,CND)		TU301	1-693-409-11	TUNER (AEP)	

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 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- 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
- Abbreviation
CND : Canadian model

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

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

The components identified by mark 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
*	1-673-359-11	4/8 BOARD *****				< TRANSISTOR >	
		< CONNECTOR >		Q901	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
		< DIODE >				< RESISTOR >	
* CNP805	1-564-216-00	PIN, CONNECTOR 5P		R901	1-202-725-00	SOLID 3.3M 10% 1/2W (US,CND)	
		< DIODE >		R902	1-216-073-00	METAL CHIP 10K 5% 1/10W	
D804	8-719-053-18	DIODE 1SR154-400TE-25		R903	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
D805	8-719-053-18	DIODE 1SR154-400TE-25				< RELAY >	
		< SWITCH >		RY901	1-755-298-11	RELAY	
S801	1-571-309-21	SWITCH (INPEDANCE SELECTOR)				< TRANSFORMER >	
*****				Δ T902	1-433-685-11	TRANSFORMER, POWER (AEP)	
*	1-673-353-11	AC BOARD *****		Δ T902	1-433-686-11	TRANSFORMER, POWER (US,CND)	
		< CAPACITOR >		*****			
	1-533-217-41	FUSE HOLDER		*	1-673-354-11	DC BOARD *****	
		< CAPACITOR >				< CAPACITOR >	
C901	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V			1-533-217-41	FUSE HOLDER	
C902	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V				< CAPACITOR >	
C905	1-126-767-11	ELECT 1000uF 20% 16V		C801	1-104-664-11	ELECT 47uF 20% 25V	
		< CONNECTOR >		C803	1-125-897-11	ELECT 10000uF 20% 71V (US,CND)	
Δ CNJ901	1-251-718-11	OUTLET (2 GANG), AC (AC OUTLET)(US,CND)		C803	1-125-997-11	ELECT 12000uF 20% 63V (AEP)	
Δ CNJ901	1-785-285-11	OUTLET, AC (1P) (AC OUTLET)(AEP)		C804	1-125-897-11	ELECT 10000uF 20% 71V (US,CND)	
CNP809	1-784-921-11	PIN, CONNECTOR 4P		C804	1-125-997-11	ELECT 12000uF 20% 63V (AEP)	
CNV901	1-564-321-00	PIN, CONNECTOR 2P				< CONNECTOR >	
* CNV902	1-565-792-11	PIN, CONNECTOR 2P		C805	1-130-781-00	FILM 0.22uF 10% 100V	
		< DIODE >		C806	1-130-781-00	FILM 0.22uF 10% 100V	
D901	8-719-053-18	DIODE 1SR154-400TE-25		C807	1-128-555-91	ELECT 470uF 20% 63V	
D902	8-719-053-18	DIODE 1SR154-400TE-25		C808	1-126-967-11	ELECT 47uF 20% 50V	
D903	8-719-053-18	DIODE 1SR154-400TE-25		C809	1-126-967-11	ELECT 47uF 20% 50V	
D904	8-719-053-18	DIODE 1SR154-400TE-25				< CONNECTOR >	
D905	8-719-801-78	DIODE 1SS184-TE85L		CNP801	1-785-102-21	PIN, CONNECTOR 4P	
		< FUSE >		CNP802	1-785-102-11	PIN, CONNECTOR 4P	
Δ F901	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) 8A/125V (US,CND)		* CNP803	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
Δ F901	1-532-504-51	FUSE TIME LAG 4A/250V (AEP)		CNP804	1-779-978-11	PIN, CONNECTOR 3P	
Δ F903	1-532-464-51	FUSE TIME LAG 2.5A/250V (AEP)				< DIODE >	
		< EARTH TERMINAL >		D801	8-719-072-05	DIODE RBV-602LF-A	
* EB901	1-537-738-21	TERMINAL, EARTH (US,CND)		D806	8-719-070-30	DIODE PTZ-TE25-5.6A	
				D810	8-719-074-75	DIODE PTZ-TE25-30B	

DC

DIGITAL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< EARTH TERMINAL >					
* EB801	1-537-738-21	TERMINAL, EARTH		C1156	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V
		< FUSE >		C1157	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ F801	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) 8A/125V		C1201	1-119-824-11	ELECT MELF 10uF 20%	50V
△ F802	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) 8A/125V		C1202	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ F803	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) 4A/125V (US,CND)		C1203	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		< TRANSISTOR >		C1204	1-165-319-11	CERAMIC CHIP 0.1uF	50V
Q801	8-729-048-78	TRANSISTOR 2SD1733-TL-QR		C1205	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		< RESISTOR >		C1206	1-163-037-11	CERAMIC CHIP 0.022uF 10%	25V
△ R801	1-247-727-11	CARBON 10 5% 1/2W F		C1207	1-104-664-11	ELECT 47uF 20%	16V
R802	1-249-401-11	CARBON 47 5% 1/4W F		C1208	1-165-319-11	CERAMIC CHIP 0.1uF	50V
R803	1-216-061-00	METAL CHIP 3.3K 5% 1/10W		C1209	1-165-319-11	CERAMIC CHIP 0.1uF	50V
R804	1-216-081-00	METAL CHIP 22K 5% 1/10W		C1210	1-104-664-11	ELECT 47uF 20%	16V
*****				C1211	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
* A-4419-439-A	DIGITAL BOARD, COMPLETE (US,CND)			C1212	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
	*****			C1213	1-165-319-11	CERAMIC CHIP 0.1uF	50V
A-4426-045-A	DIGITAL BOARD, COMPLETE (AEP)			C1214	1-104-664-11	ELECT 47uF 20%	16V
	*****			C1215	1-126-935-11	ELECT 470uF 20%	16V
		< CAPACITOR >		C1216	1-126-935-11	ELECT 470uF 20%	16V
C1001	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1217	1-126-935-11	ELECT 470uF 20%	16V
C1005	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1218	1-126-959-11	ELECT 0.47uF 20%	50V
C1006	1-126-935-11	ELECT 470uF 20%	6.3V (US,CND)	C1219	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1006	1-128-834-11	ELECT 470uF 20%	10V (AEP)	C1220	1-126-957-11	ELECT 0.22uF 20%	50V
C1007	1-126-965-11	ELECT 22uF 20%	50V	C1221	1-119-824-11	ELECT MELF 10uF 20%	50V
C1008	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1222	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1009	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1223	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1010	1-163-217-11	CERAMIC CHIP 1PF 0.25PF	50V	C1224	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1011	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1225	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1012	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1226	1-126-960-11	ELECT 1uF 20%	50V
C1013	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1227	1-104-664-11	ELECT 47uF 20%	16V
C1014	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1228	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V
C1015	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1229	1-126-935-11	ELECT 470uF 20%	16V (US,CND)(SUFFIX-12)
C1016	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1229	1-127-720-91	ELECT 470uF 20%	16V (AEP)(SUFFIX-12)
C1017	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V	C1230	1-165-319-11	CERAMIC CHIP 0.1uF	50V (SUFFIX-12)
C1018	1-163-275-11	CERAMIC CHIP 0.001uF 5%	50V	C1301	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1019	1-163-275-11	CERAMIC CHIP 0.001uF 5%	50V	C1303	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1020	1-163-243-11	CERAMIC CHIP 47PF 5%	50V	C1304	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1031	1-163-275-11	CERAMIC CHIP 0.001uF 5%	50V	C1305	1-104-664-11	ELECT 47uF 20%	16V
C1101	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1306	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C1102	1-104-664-11	ELECT 47uF 20%	16V	C1307	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1103	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1309	1-126-935-11	ELECT 470uF 20%	6.3V (US,CND)
C1104	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V	C1309	1-128-834-11	ELECT 470uF 20%	10V (AEP)
C1105	1-104-664-11	ELECT 47uF 20%	16V	C1310	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1106	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1311	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1107	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V	C1312	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1108	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1313	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1109	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1314	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1110	1-163-275-11	CERAMIC CHIP 0.001uF 5%	50V	C1315	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V
C1111	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C1401	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1402	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1403	1-163-275-11	CERAMIC CHIP 0.001uF 5%	50V

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

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

DIGITAL

Ref. No.	Part No.	Description	Remarks
C1404	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1405	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1406	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1407	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1408	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1409	1-104-664-11	ELECT 47uF	20% 16V
C1410	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1411	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1412	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1413	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1414	1-104-664-11	ELECT 47uF	20% 16V
C1416	1-104-664-11	ELECT 47uF	20% 16V
C1417	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1501	1-104-664-11	ELECT 47uF	20% 16V
C1502	1-104-664-11	ELECT 47uF	20% 16V
C1503	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1504	1-104-664-11	ELECT 47uF	20% 16V
C1505	1-104-664-11	ELECT 47uF	20% 16V
C1508	1-126-965-11	ELECT 22uF	20% 50V
C1509	1-104-664-11	ELECT 47uF	20% 16V
C1510	1-126-965-11	ELECT 22uF	20% 50V
C1511	1-126-965-11	ELECT 22uF	20% 50V
C1512	1-104-664-11	ELECT 47uF	20% 16V
C1513	1-126-964-11	ELECT 10uF	20% 50V
C1514	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1515	1-126-964-11	ELECT 10uF	20% 50V
C1516	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1517	1-126-965-11	ELECT 22uF	20% 50V
C1518	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1519	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1520	1-126-965-11	ELECT 22uF	20% 50V
C1522	1-126-965-11	ELECT 22uF	20% 50V
C1523	1-106-347-00	MYLAR 1500PF	5% 200V
C1524	1-126-965-11	ELECT 22uF	20% 50V
C1525	1-126-965-11	ELECT 22uF	20% 50V
C1526	1-126-965-11	ELECT 22uF	20% 50V
C1527	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C1529	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C1531	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C1533	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C1535	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C1537	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C1539	1-104-664-11	ELECT 47uF	20% 16V
C1540	1-104-664-11	ELECT 47uF	20% 16V
C1541	1-104-664-11	ELECT 47uF	20% 16V
C1542	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1543	1-126-965-11	ELECT 22uF	20% 50V
C1544	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1545	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1546	1-126-965-11	ELECT 22uF	20% 50V
C1547	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1548	1-126-965-11	ELECT 22uF	20% 50V
C1549	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1550	1-126-965-11	ELECT 22uF	20% 50V
C1551	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1552	1-126-965-11	ELECT 22uF	20% 50V
C1553	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1554	1-126-965-11	ELECT 22uF	20% 50V
C1561	1-126-965-11	ELECT 22uF	20% 50V
C1562	1-126-965-11	ELECT 22uF	20% 50V

Ref. No.	Part No.	Description	Remarks
C1563	1-126-965-11	ELECT 22uF	20% 50V
C1564	1-126-965-11	ELECT 22uF	20% 50V
C1570	1-119-824-11	ELECT MELF 10uF	20% 50V
C1571	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1572	1-126-965-11	ELECT 22uF	20% 50V
C1573	1-106-347-00	MYLAR 1500PF	5% 200V
C1574	1-126-965-11	ELECT 22uF	20% 50V
C1575	1-126-965-11	ELECT 22uF	20% 50V
C1576	1-126-965-11	ELECT 22uF	20% 50V
C3118	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C3119	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
< CONNECTOR >			
CNP1301	1-784-923-11	PIN, CONNECTOR 7P	
CNP1302	1-779-799-11	PIN, CONNECTOR 9P	
CNP1303	1-779-977-11	PIN, CONNECTOR 6P	
CNP1305	1-784-923-11	PIN, CONNECTOR 7P	
CNS1301	1-784-778-11	CONNECTOR, FFC 17P	
CNS1302	1-784-776-11	CONNECTOR, FFC 15P	
CNS1303	1-784-780-11	CONNECTOR, FFC 19P	
CNS1304	1-784-776-11	CONNECTOR, FFC 15P	
< DIODE >			
D1001	8-719-016-74	DIODE 1SS352-TPH3	
D1002	8-719-016-74	DIODE 1SS352-TPH3	
D1101	8-719-016-74	DIODE 1SS352-TPH3	
D1102	8-719-016-74	DIODE 1SS352-TPH3	
D1201	8-719-016-74	DIODE 1SS352-TPH3	
D1202	8-719-016-74	DIODE 1SS352-TPH3	
D1203	8-719-801-78	DIODE 1SS184-TE85L	
D1204	8-719-801-78	DIODE 1SS184-TE85L	
D1205	8-719-801-78	DIODE 1SS184-TE85L	
D1206	8-719-016-74	DIODE 1SS352-TPH3	
D1207	8-719-016-74	DIODE 1SS352-TPH3	
D1208	8-719-053-18	DIODE 1SR154-400TE-25	
D1209	8-719-801-78	DIODE 1SS184-TE85L	
D1210	8-719-016-74	DIODE 1SS352-TPH3	
D1211	8-719-053-18	DIODE 1SR154-400TE-25	
D1501	8-719-820-05	DIODE 1SS181-TE85L	
D1504	8-719-820-05	DIODE 1SS181-TE85L	
D1505	8-719-820-05	DIODE 1SS181-TE85L	
< EARTH TERMINAL >			
* EB1001	1-537-738-21	TERMINAL, EARTH	
* EB1002	1-537-738-21	TERMINAL, EARTH	
< FERRITE BEAD >			
FB1101	1-414-813-11	FERRITE 0UH	
FB1102	1-414-813-11	FERRITE 0UH	
FB1103	1-414-813-11	FERRITE 0UH	
FB1301	1-414-813-11	FERRITE 0UH	
FB1302	1-414-813-11	FERRITE 0UH	
FB1401	1-414-813-11	FERRITE 0UH	
FB1402	1-414-813-11	FERRITE 0UH	
FB1403	1-414-813-11	FERRITE 0UH	

DIGITAL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< IC >				< RESISTOR >			
IC1001	8-749-923-05	TORX178A (OPT)		R1001	1-216-025-91	RES,CHIP 100 5%	1/10W
IC1005	8-759-926-17	IC TC74HC153AF(EL)		R1005	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1006	8-759-234-20	IC TC7S08F(TE85R)		R1006	1-216-025-91	RES,CHIP 100 5%	1/10W
IC1007	8-759-242-70	IC TC7WU04F(TE12R)		R1007	1-216-025-91	RES,CHIP 100 5%	1/10W
IC1101	8-759-581-19	IC LC89055W		R1008	1-216-022-00	METAL CHIP 75 5%	1/10W
IC1102	8-759-242-70	IC TC7WU04F(TE12R)		R1009	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1201	8-759-580-51	IC MB90573PFV-G-190-BND		R1010	1-216-081-00	METAL CHIP 22K 5%	1/10W
IC1202	8-759-186-30	IC TC74VHC14F(EL)		R1011	1-216-025-91	RES,CHIP 100 5%	1/10W
IC1203	8-759-445-59	IC BA033T		R1012	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1204	8-759-450-47	IC BA05T		R1013	1-216-115-00	METAL CHIP 560K 5%	1/10W
IC1205	8-759-231-53	IC M5F7805L		R1014	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1206	8-759-544-04	IC NJM2103M-TE2		R1015	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1207	8-759-450-47	IC BA05T(SUFFIX-12)		R1016	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1301	8-759-582-68	IC CXD9511Q		R1017	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1401	8-752-391-87	IC CXD2712R		R1018	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
IC1402	8-759-538-16	IC IDT71V016S15PH-AUTL		R1019	1-216-081-00	METAL CHIP 22K 5%	1/10W
IC1403	8-759-524-32	IC TC74VHC367FT(EL)		R1021	1-216-089-91	RES,CHIP 47K 5%	1/10W
IC1404	8-759-242-70	IC TC7WU04F(TE12R)		R1022	1-216-121-91	RES,CHIP 1M 5%	1/10W
IC1501	8-759-231-53	IC M5F7805L		R1101	1-216-073-00	METAL CHIP 10K 5%	1/10W
IC1502	8-759-590-10	IC TC9273F-012(EL)		R1102	1-216-073-00	METAL CHIP 10K 5%	1/10W
IC1503	8-759-581-18	IC AK4526A		R1103	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1504	8-759-636-55	IC M5218AFP-T1		R1104	1-216-022-00	METAL CHIP 75 5%	1/10W
IC1505	8-759-636-55	IC M5218AFP-T1		R1105	1-216-066-00	METAL CHIP 5.1K 5%	1/10W
IC1506	8-759-636-55	IC M5218AFP-T1		R1106	1-216-071-00	METAL CHIP 8.2K 5%	1/10W
IC1507	8-759-636-55	IC M5218AFP-T1		R1107	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1508	8-759-636-55	IC M5218AFP-T1		R1108	1-216-025-91	RES,CHIP 100 5%	1/10W
IC1509	8-759-636-55	IC M5218AFP-T1		R1109	1-216-121-91	RES,CHIP 1M 5%	1/10W
IC1510	8-759-636-55	IC M5218AFP-T1		R1110	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC1554	8-759-636-55	IC M5218AFP-T1		R1111	1-216-121-91	RES,CHIP 1M 5%	1/10W
		< JACK >		R1112	1-216-025-91	RES,CHIP 100 5%	1/10W
J1001	1-784-431-11	JACK, PIN 1P (COAX)		R1113	1-216-025-91	RES,CHIP 100 5%	1/10W
J1002	1-785-536-11	JACK, PIN (6P) (5.1CH INPUT)		R1114	1-216-025-91	RES,CHIP 100 5%	1/10W
		< JANPER WIRE >		R1115	1-216-073-00	METAL CHIP 10K 5%	1/10W
JW10	1-216-295-91	SHORT 0		R1131	1-216-066-00	METAL CHIP 5.1K 5%	1/10W
JW11	1-216-295-91	SHORT 0		R1160	1-216-049-91	RES,CHIP 1K 5%	1/10W
JW12	1-216-295-91	SHORT 0		R1192	1-216-049-91	RES,CHIP 1K 5%	1/10W
JW13	1-216-295-91	SHORT 0		R1193	1-216-049-91	RES,CHIP 1K 5%	1/10W
JW14	1-216-295-91	SHORT 0		R1201	1-216-097-91	RES,CHIP 100K 5%	1/10W
JW15	1-216-295-91	SHORT 0		R1202	1-216-049-91	RES,CHIP 1K 5%	1/10W
JW16	1-216-295-91	SHORT 0		R1203	1-216-049-91	RES,CHIP 1K 5%	1/10W
JW17	1-216-295-91	SHORT 0		R1204	1-216-049-91	RES,CHIP 1K 5%	1/10W
		< TRANSISTOR >		R1205	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1201	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R1206	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1202	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R1207	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1203	8-729-027-43	TRANSISTOR RT1N141C-TP-1		R1208	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1204	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R1209	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1205	8-729-048-78	TRANSISTOR 2SD1733-TL-QR		R1210	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1501	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16		R1211	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1502	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16		R1212	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1503	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16		R1213	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1504	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16		R1214	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1505	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16		R1215	1-216-025-91	RES,CHIP 100 5%	1/10W
Q1506	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16		R1216	1-216-025-91	RES,CHIP 100 5%	1/10W
Q1507	8-729-027-23	TRANSISTOR RT1P141C-TP-1		R1217	1-216-025-91	RES,CHIP 100 5%	1/10W
				R1218	1-216-049-91	RES,CHIP 1K 5%	1/10W

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Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R1219	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1284	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1220	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1285	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1221	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1286	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1223	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1287	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1224	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1288	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1225	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R1289	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1226	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R1290	1-216-093-91	RES,CHIP	68K	5%	1/10W
R1228	1-216-075-00	METAL CHIP	12K	5%	1/10W	R1291	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1229	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1292	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1230	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1294	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1231	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1301	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1232	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1302	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1233	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1401	1-216-025-91	RES,CHIP	100	5%	1/10W
R1234	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1402	1-216-025-91	RES,CHIP	100	5%	1/10W
R1235	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1403	1-216-025-91	RES,CHIP	100	5%	1/10W
R1236	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1404	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1237	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1405	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1238	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1406	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1239	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1407	1-216-025-91	RES,CHIP	100	5%	1/10W
R1240	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1408	1-216-025-91	RES,CHIP	100	5%	1/10W
R1241	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1409	1-216-025-91	RES,CHIP	100	5%	1/10W
R1242	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1410	1-216-295-91	SHORT	0		
R1243	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1412	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1244	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1413	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1245	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1414	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1246	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1415	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1247	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1416	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1248	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1417	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1249	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1418	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1250	1-216-025-91	RES,CHIP	100	5%	1/10W	R1419	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1252	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1420	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1253	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1421	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1254	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1422	1-216-025-91	RES,CHIP	100	5%	1/10W
R1255	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1501	1-216-295-91	SHORT	0		
R1256	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1502	1-216-295-91	SHORT	0		
R1257	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1503	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1258	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1504	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1259	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1505	1-216-009-91	RES,CHIP	22	5%	1/10W
R1261	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1506	1-216-009-91	RES,CHIP	22	5%	1/10W
R1262	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1508	1-216-033-00	METAL CHIP	220	5%	1/10W
R1263	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1509	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1264	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1510	1-216-033-00	METAL CHIP	220	5%	1/10W
R1265	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1511	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1266	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1512	1-216-033-00	METAL CHIP	220	5%	1/10W
R1268	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1513	1-216-033-00	METAL CHIP	220	5%	1/10W
R1269	1-216-093-91	RES,CHIP	68K	5%	1/10W	R1514	1-216-033-00	METAL CHIP	220	5%	1/10W
R1270	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1515	1-216-033-00	METAL CHIP	220	5%	1/10W
R1271	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1516	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1272	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1517	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1273	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1518	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1274	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R1519	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1275	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1522	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1276	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1523	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1277	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1524	1-216-037-00	METAL CHIP	330	5%	1/10W
R1278	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1525	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1279	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1526	1-216-037-00	METAL CHIP	330	5%	1/10W
R1280	1-216-081-00	METAL CHIP	22K	5%	1/10W	R1527	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1281	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1528	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1282	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1529	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1283	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1530	1-216-049-91	RES,CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R1532	1-216-085-00	METAL CHIP	33K	5%	1/10W	R1595	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1533	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1596	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1534	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1597	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1535	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1598	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1536	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1599	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1537	1-216-085-00	METAL CHIP	33K	5%	1/10W	R3121	1-216-043-91	RES,CHIP	560	5%	1/10W
R1538	1-216-089-91	RES,CHIP	47K	5%	1/10W						
R1539	1-216-097-91	RES,CHIP	100K	5%	1/10W			< VIBRATOR >			
R1540	1-216-089-91	RES,CHIP	47K	5%	1/10W						
R1541	1-216-085-00	METAL CHIP	33K	5%	1/10W	X1201	1-781-356-21	VIBRATOR, CERAMIC(16MHz)			
						X1401	1-781-464-21	VIBRATOR, CERAMIC(10MHz)			
R1542	1-216-089-91	RES,CHIP	47K	5%	1/10W	X3501	1-781-465-21	VIBRATOR, CRYSTAL(12.288MHz)			
R1543	1-216-081-00	METAL CHIP	22K	5%	1/10W	*****					
R1544	1-216-089-91	RES,CHIP	47K	5%	1/10W	*	A-4419-393-A	DISPLAY BOARD, COMPLETE (US,CND)			
R1545	1-216-085-00	METAL CHIP	33K	5%	1/10W			*****			
R1546	1-216-089-91	RES,CHIP	47K	5%	1/10W	*	A-4419-395-A	DISPLAY BOARD, COMPLETE (AEP)			

R1547	1-216-097-91	RES,CHIP	100K	5%	1/10W						
R1548	1-216-089-91	RES,CHIP	47K	5%	1/10W						
R1549	1-216-085-00	METAL CHIP	33K	5%	1/10W	*	4-921-941-01	CUSHION (FL)			
R1550	1-216-089-91	RES,CHIP	47K	5%	1/10W	*	4-990-797-01	HOLDER (FL)			
R1551	1-216-089-91	RES,CHIP	47K	5%	1/10W						
								< CAPACITOR >			
R1552	1-216-089-91	RES,CHIP	47K	5%	1/10W						
R1553	1-216-085-00	METAL CHIP	33K	5%	1/10W	C101	1-126-786-11	ELECT	47uF	20%	16V
R1554	1-216-089-91	RES,CHIP	47K	5%	1/10W	C103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1555	1-216-295-91	SHORT	0			C104	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1556	1-216-081-00	METAL CHIP	22K	5%	1/10W	C105	1-104-905-11	CAPACITOR	0.22F		5.5V
						C106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1557	1-216-295-91	SHORT	0								
R1558	1-216-025-91	RES,CHIP	100	5%	1/10W	C107	1-126-786-11	ELECT	47uF	20%	16V
R1559	1-216-089-91	RES,CHIP	47K	5%	1/10W	C108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1560	1-216-097-91	RES,CHIP	100K	5%	1/10W	C109	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1561	1-216-097-91	RES,CHIP	100K	5%	1/10W	C110	1-165-319-11	CERAMIC CHIP	0.1uF		50V
						C111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1562	1-216-097-91	RES,CHIP	100K	5%	1/10W						
R1563	1-216-097-91	RES,CHIP	100K	5%	1/10W	C113	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1564	1-216-097-91	RES,CHIP	100K	5%	1/10W	C114	1-126-795-11	ELECT	10uF	20%	50V
R1565	1-216-097-91	RES,CHIP	100K	5%	1/10W	C115	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
R1567	1-216-097-91	RES,CHIP	100K	5%	1/10W	C116	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
						C117	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1568	1-216-081-00	METAL CHIP	22K	5%	1/10W						
R1569	1-216-097-91	RES,CHIP	100K	5%	1/10W	C118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1570	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	C119	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1571	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	C120	1-126-786-11	ELECT	47uF	20%	16V
R1572	1-216-073-00	METAL CHIP	10K	5%	1/10W	C121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
						C122	1-165-319-11	CERAMIC CHIP	0.1uF		50V
R1573	1-216-057-00	METAL CHIP	2.2K	5%	1/10W						
R1574	1-216-037-00	METAL CHIP	330	5%	1/10W			< CONNECTOR >			
R1575	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R1576	1-216-037-00	METAL CHIP	330	5%	1/10W	CNN1	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P (US,CND)			
R1577	1-216-073-00	METAL CHIP	10K	5%	1/10W	* CNP104	1-784-919-11	CONNECTOR, PC BOARD (PLUG) 5P			
						* CNP105	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
R1578	1-216-049-91	RES,CHIP	1K	5%	1/10W	CNP106	1-784-919-11	CONNECTOR, PC BOARD (PLUG) 5P			
R1579	1-216-049-91	RES,CHIP	1K	5%	1/10W	CNP110	1-785-821-11	CONNECTOR, BOARD TO BOARD 6P			
R1580	1-216-049-91	RES,CHIP	1K	5%	1/10W						
R1581	1-216-081-00	METAL CHIP	22K	5%	1/10W	CNP111	1-785-821-11	CONNECTOR, BOARD TO BOARD 6P			
R1582	1-216-089-91	RES,CHIP	47K	5%	1/10W	CNS101	1-569-308-11	SOCKET, CONNECTOR (L TYRE) 19P			
						CNS103	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
R1583	1-216-097-91	RES,CHIP	100K	5%	1/10W						
R1584	1-216-089-91	RES,CHIP	47K	5%	1/10W			< DIODE >			
R1585	1-216-081-00	METAL CHIP	22K	5%	1/10W	D102	8-719-053-18	DIODE 1SR154-400TE-25			
R1586	1-216-105-91	RES,CHIP	220K	5%	1/10W	D103	8-719-016-74	DIODE 1SS352-TPH3			
R1587	1-216-105-91	RES,CHIP	220K	5%	1/10W	D104	8-719-075-59	DIODE SELS5B23CTP15 (DCS)			
						D105	8-719-313-45	DIODE SEL6810A-TH10 (EQUALIZER)			
R1588	1-216-105-91	RES,CHIP	220K	5%	1/10W	D106	8-719-313-45	DIODE SEL6810A-TH10 (BASS BOOST)			
R1589	1-216-105-91	RES,CHIP	220K	5%	1/10W						
R1590	1-216-105-91	RES,CHIP	220K	5%	1/10W						
R1591	1-216-105-91	RES,CHIP	220K	5%	1/10W						
R1594	1-216-073-00	METAL CHIP	10K	5%	1/10W						

DISPLAY

H.P

JOINT

LED

Ref. No.	Part No.	Description	Remarks
D107	8-719-016-74	DIODE 1SS352-TPH3	
D108	8-719-016-74	DIODE 1SS352-TPH3	
D113	8-719-016-74	DIODE 1SS352-TPH3 (AEP)	
D180	8-719-016-74	DIODE 1SS352-TPH3	
< FLUORESCENT INDICATOR TUBE >			
FL101	1-517-781-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC101	8-759-459-85	IC NJL63H400A	
IC102	8-759-577-32	IC MB90553APF-G-138-BND	
IC103	8-759-075-35	IC TD62C950RF	
IC104	8-759-389-51	IC MSC1164GS-KR1	
IC105	8-759-589-67	IC BA6208F-E2	
< TRANSISTOR >			
Q101	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
Q102	8-729-027-23	TRANSISTOR RT1P141C-TP-1	
Q108	8-729-027-43	TRANSISTOR RT1N141C-TP-1	
Q109	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
QQ1	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L (US,CND)	
< RESISTOR >			
R101	1-216-049-91	RES,CHIP 1K 5%	1/10W
R102	1-216-049-91	RES,CHIP 1K 5%	1/10W
R103	1-216-049-91	RES,CHIP 1K 5%	1/10W
R104	1-216-037-00	METAL CHIP 330 5%	1/10W
R105	1-216-049-91	RES,CHIP 1K 5%	1/10W
R106	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R107	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R108	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R109	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R110	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R111	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R112	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R113	1-216-073-00	METAL CHIP 10K 5%	1/10W
R114	1-216-073-00	METAL CHIP 10K 5%	1/10W
R116	1-216-049-91	RES,CHIP 1K 5%	1/10W
R117	1-216-049-91	RES,CHIP 1K 5%	1/10W
R118	1-216-049-91	RES,CHIP 1K 5%	1/10W
R119	1-216-049-91	RES,CHIP 1K 5%	1/10W
R120	1-216-049-91	RES,CHIP 1K 5%	1/10W
R121	1-216-081-00	METAL CHIP 22K 5%	1/10W
R122	1-216-081-00	METAL CHIP 22K 5%	1/10W
R123	1-216-001-00	METAL CHIP 10 5%	1/10W
R124	1-216-073-00	METAL CHIP 10K 5%	1/10W
R125	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R126	1-216-073-00	METAL CHIP 10K 5%	1/10W
R127	1-216-037-00	METAL CHIP 330 5%	1/10W
R129	1-216-025-91	RES,CHIP 100 5%	1/10W
R130	1-216-097-91	RES,CHIP 100K 5%	1/10W
R137	1-216-073-00	METAL CHIP 10K 5%	1/10W
R138	1-216-049-91	RES,CHIP 1K 5%	1/10W
R141	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R142	1-216-049-91	RES,CHIP 1K 5%	1/10W (AEP)
R143	1-216-073-00	METAL CHIP 10K 5%	1/10W
R144	1-216-001-00	METAL CHIP 10 5%	1/10W
R145	1-216-089-91	RES,CHIP 47K 5%	1/10W

Ref. No.	Part No.	Description	Remarks
R146	1-216-081-00	METAL CHIP 22K 5%	1/10W
R147	1-216-089-91	RES,CHIP 47K 5%	1/10W
R148	1-249-385-11	CARBON 2.2 5%	1/6W F
R149	1-249-385-11	CARBON 2.2 5%	1/6W F
R190	1-216-097-91	RES,CHIP 100K 5%	1/10W
R191	1-216-097-91	RES,CHIP 100K 5%	1/10W
R192	1-216-097-91	RES,CHIP 100K 5%	1/10W
RR1	1-216-073-00	METAL CHIP 10K 5%	1/10W (US,CND)
RR24	1-216-089-91	RES,CHIP 47K 5%	1/10W
RR25	1-216-089-91	RES,CHIP 47K 5%	1/10W
RR26	1-216-089-91	RES,CHIP 47K 5%	1/10W
RR27	1-216-089-91	RES,CHIP 47K 5%	1/10W
RR28	1-216-089-91	RES,CHIP 47K 5%	1/10W
RR51	1-216-029-00	METAL CHIP 150 5%	1/10W
RR52	1-216-029-00	METAL CHIP 150 5%	1/10W
RR53	1-216-029-00	METAL CHIP 150 5%	1/10W
RR54	1-216-037-00	METAL CHIP 330 5%	1/10W
RR55	1-216-037-00	METAL CHIP 330 5%	1/10W
< SWITCH >			
S148	1-771-349-21	SWITCH, KEYBOARD (DISPLAY)	
S149	1-771-349-21	SWITCH, KEYBOARD (DIMMER)	
< VIBRATOR >			
X101	1-781-356-21	VIBRATOR, CERAMIC (16MHz)	

*	1-673-349-11	H.P BOARD	*****
< CAPACITOR >			
CNP751	1-779-978-11	PIN, CONNECTOR 3P	
< EARTH TERMINAL >			
* EB701	1-537-738-21	TERMINAL, EARTH	
< JACK >			
J701	1-750-735-11	JACK (LARGE TYPE)(PHONESE)	

	1-673-940-11	JOINT BOARD	*****
< CONNECTOR >			
CNP211	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P	
CNP212	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P	

*	1-673-350-11	LED BOARD	*****
< CAPACITOR >			
C125	1-165-319-11	CERAMIC CHIP 0.1uF 50V	

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Ref. No.	Part No.	Description	Remarks
C655	1-126-934-11	ELECT 220uF 20% 10V	
C680	1-162-282-31	CERAMIC 100PF 10% 50V	
C689	1-164-079-11	CERAMIC 330PF 10% 50V	
C699	1-102-934-00	CERAMIC 1.0PF 0.25PF 50V	
C801	1-136-153-00	FILM 0.01uF 5% 50V	
C802	1-136-153-00	FILM 0.01uF 5% 50V	
C803	1-136-153-00	FILM 0.01uF 5% 50V	
C804	1-136-153-00	FILM 0.01uF 5% 50V	
C811	1-126-953-11	ELECT 2200uF 20% 35V	
C812	1-126-952-11	ELECT 1000uF 20% 35V	
C813	1-126-937-11	ELECT 4700uF 20% 16V	
C993	1-126-960-11	ELECT 1uF 20% 50V	
CC04	1-164-070-11	CERAMIC 100PF 5% 50V	
CC05	1-164-070-11	CERAMIC 100PF 5% 50V	
CC06	1-164-070-11	CERAMIC 100PF 5% 50V	
CC08	1-164-070-11	CERAMIC 100PF 5% 50V	
CC09	1-164-070-11	CERAMIC 100PF 5% 50V	
CC10	1-164-070-11	CERAMIC 100PF 5% 50V	
CC11	1-164-070-11	CERAMIC 100PF 5% 50V	
CC12	1-164-070-11	CERAMIC 100PF 5% 50V	
CC13	1-164-070-11	CERAMIC 100PF 5% 50V	
CC54	1-164-070-11	CERAMIC 100PF 5% 50V	
CC55	1-164-070-11	CERAMIC 100PF 5% 50V	
CC56	1-164-070-11	CERAMIC 100PF 5% 50V	
CC58	1-164-070-11	CERAMIC 100PF 5% 50V	
CC59	1-164-070-11	CERAMIC 100PF 5% 50V	
CC60	1-164-070-11	CERAMIC 100PF 5% 50V	
CC61	1-164-070-11	CERAMIC 100PF 5% 50V	
CC62	1-164-070-11	CERAMIC 100PF 5% 50V	
CC63	1-164-070-11	CERAMIC 100PF 5% 50V	
< CONNECTOR >			
CNP303	1-779-977-11	PIN, CONNECTOR 6P	
CNP601	1-785-104-11	PIN, CONNECTOR 6P	
CNP602	1-785-102-21	PIN, CONNECTOR 4P	
CNP751	1-779-978-11	PIN, CONNECTOR 3P	
CNP801	1-785-102-11	PIN, CONNECTOR 4P	
CNP802	1-785-103-11	PIN, CONNECTOR 5P	
CNS306	1-784-778-11	CONNECTOR, FFC 17P	
< DIODE >			
D490	8-719-210-21	DIODE 11EQS04-NTA2B	
D491	8-719-210-21	DIODE 11EQS04-NTA2B	
D494	8-719-210-21	DIODE 11EQS04-NTA2B	
D495	8-719-210-21	DIODE 11EQS04-NTA2B	
D496	8-719-210-21	DIODE 11EQS04-NTA2B	
D497	8-719-210-21	DIODE 11EQS04-NTA2B	
D501	8-719-911-19	DIODE 1SS133T-72	
D502	8-719-109-51	DIODE MTZJ-T-72-2.2	
D503	8-719-109-51	DIODE MTZJ-T-72-2.2	
D504	8-719-911-19	DIODE 1SS133T-72	
D505	8-719-911-19	DIODE 1SS133T-72	
D506	8-719-911-19	DIODE 1SS133T-72	
D545	8-719-911-19	DIODE 1SS133T-72	
D546	8-719-911-19	DIODE 1SS133T-72	
D547	8-719-911-19	DIODE 1SS133T-72	
D548	8-719-911-19	DIODE 1SS133T-72	
D549	8-719-911-19	DIODE 1SS133T-72	
D551	8-719-911-19	DIODE 1SS133T-72	
D552	8-719-109-51	DIODE MTZJ-T-72-2.2	
D553	8-719-109-51	DIODE MTZJ-T-72-2.2	

Ref. No.	Part No.	Description	Remarks
D554	8-719-911-19	DIODE 1SS133T-72	
D555	8-719-911-19	DIODE 1SS133T-72	
D556	8-719-911-19	DIODE 1SS133T-72	
D598	8-719-911-19	DIODE 1SS133T-72	
D599	8-719-911-19	DIODE 1SS133T-72	
D601	8-719-911-19	DIODE 1SS133T-72	
D602	8-719-109-51	DIODE MTZJ-T-72-2.2	
D603	8-719-109-51	DIODE MTZJ-T-72-2.2	
D604	8-719-911-19	DIODE 1SS133T-72	
D605	8-719-911-19	DIODE 1SS133T-72	
D606	8-719-911-19	DIODE 1SS133T-72	
D607	8-719-911-19	DIODE 1SS133T-72	
D608	8-719-911-19	DIODE 1SS133T-72	
D649	8-719-911-19	DIODE 1SS133T-72	
D681	8-719-911-19	DIODE 1SS133T-72	
D698	8-719-911-19	DIODE 1SS133T-72	
D802	8-719-024-99	DIODE 11ES2-NTA2B	
D803	8-719-024-99	DIODE 11ES2-NTA2B	
D804	8-719-024-99	DIODE 11ES2-NTA2B	
D805	8-719-024-99	DIODE 11ES2-NTA2B	
D806	8-719-024-99	DIODE 11ES2-NTA2B	
D807	8-719-024-99	DIODE 11ES2-NTA2B	
D808	8-719-024-99	DIODE 11ES2-NTA2B	
D809	8-719-024-99	DIODE 11ES2-NTA2B	
< EARTH TERMINAL >			
* EB301	1-537-738-21	TERMINAL, EARTH	
* EB302	1-537-738-21	TERMINAL, EARTH	
< FUSE >			
△ F803	1-532-504-51	FUSE TIME LAG 4A/250V (AEP)	
△ F804	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) 4A/125V (US,CND)	
△ F804	1-532-504-51	FUSE TIME LAG 4A/250V (AEP)	
△ F805	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) 4A/125V (US,CND)	
△ F805	1-532-504-51	FUSE TIME LAG 4A/250V (AEP)	
< IC >			
IC301	8-759-582-64	IC TC9273N-004	
IC302	8-759-636-74	IC M5218AP-22	
IC303	8-759-582-65	IC TC9273N-014	
IC304	8-759-636-74	IC M5218AP-22	
IC401	8-759-231-59	IC M5F7815L	
IC402	8-759-245-87	IC M5F7915L	
IC404	8-759-708-05	IC NJM78L05A-T3	
IC414	8-759-534-63	IC TC9299P	
IC415	8-759-534-63	IC TC9299P	
IC416	8-759-534-63	IC TC9299P	
IC501	8-759-326-52	IC uPC2581V	
IC601	8-759-326-52	IC uPC2581V	
< JACK >			
J301	1-784-429-11	JACK, PIN 4P (PHONO/CD)	
J302	1-784-429-11	JACK, PIN 4P (MD/TAPE)	
J304	1-784-920-11	JACK, PIN 6P (TV/LD/DVD/VIDEO 2)	
J305	1-784-920-11	JACK, PIN 6P (VIDEO 2/VIDEO 1)	

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

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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< COIL >					
L501	1-411-906-11	COIL, AIR-CORE (AEP)		R310	1-249-417-11	CARBON 1K 5%	1/4W F
L501	1-420-872-00	COIL, AIR-CORE (US,CND)		R311	1-249-417-11	CARBON 1K 5%	1/4W F
L551	1-411-906-11	COIL, AIR-CORE (AEP)		R312	1-249-417-11	CARBON 1K 5%	1/4W F
L551	1-420-872-00	COIL, AIR-CORE (US,CND)		R316	1-249-417-11	CARBON 1K 5%	1/4W F
		< TRANSISTOR >		R317	1-249-417-11	CARBON 1K 5%	1/4W F
Q501	8-729-900-36	TRANSISTOR BA1F4M-TP		R318	1-249-417-11	CARBON 1K 5%	1/4W F
Q503	8-729-900-63	TRANSISTOR BN1F4M-TP		R319	1-249-417-11	CARBON 1K 5%	1/4W F
Q504	8-729-119-76	TRANSISTOR 2SA1115TP-EF		R320	1-249-417-11	CARBON 1K 5%	1/4W F
Q505	8-729-026-08	TRANSISTOR 2SC4495		R325	1-249-417-11	CARBON 1K 5%	1/4W F
Q506	8-749-010-25	TRANSISTOR MN2488-OPY-M		R331	1-247-887-00	CARBON 220K 5%	1/4W
Q507	8-749-010-26	TRANSISTOR MP1620-OPY-M		R335	1-247-887-00	CARBON 220K 5%	1/4W
Q508	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R344	1-247-807-31	CARBON 100 5%	1/4W
Q509	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R345	1-247-807-31	CARBON 100 5%	1/4W
Q510	8-729-900-63	TRANSISTOR BN1F4M-TP		R346	1-249-397-11	CARBON 22 5%	1/4W F
Q511	8-729-900-63	TRANSISTOR BN1F4M-TP		R347	1-249-397-11	CARBON 22 5%	1/4W F
Q546	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R351	1-249-401-11	CARBON 47 5%	1/4W F
Q547	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R351	1-249-425-11	CARBON 4.7K 5%	(US,CND) 1/4W F (AEP)
Q548	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R352	1-249-441-11	CARBON 100K 5%	1/4W
Q549	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R353	1-249-440-11	CARBON 82K 5%	1/4W
Q554	8-729-119-76	TRANSISTOR 2SA1115TP-EF		R354	1-249-408-11	CARBON 180 5%	1/4W F
Q555	8-729-026-08	TRANSISTOR 2SC4495		R355	1-249-428-11	CARBON 8.2K 5%	1/4W F
Q556	8-749-010-25	TRANSISTOR MN2488-OPY-M		R356	1-249-441-11	CARBON 100K 5%	1/4W
Q557	8-749-010-26	TRANSISTOR MP1620-OPY-M		R357	1-247-807-31	CARBON 100 5%	1/4W
Q558	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R358	1-249-441-11	CARBON 100K 5%	1/4W
Q559	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R359	1-249-413-11	CARBON 470 5%	1/4W F
Q560	8-729-900-63	TRANSISTOR BN1F4M-TP		R360	1-249-417-11	CARBON 1K 5%	1/4W F
Q561	8-729-900-63	TRANSISTOR BN1F4M-TP		R361	1-249-417-11	CARBON 1K 5%	1/4W F
Q596	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R362	1-249-417-11	CARBON 1K 5%	1/4W F
Q598	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R366	1-249-417-11	CARBON 1K 5%	1/4W F
Q599	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R367	1-249-417-11	CARBON 1K 5%	1/4W F
Q601	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R368	1-249-417-11	CARBON 1K 5%	1/4W F
Q604	8-729-119-76	TRANSISTOR 2SA1115TP-EF		R369	1-249-417-11	CARBON 1K 5%	1/4W F
Q605	8-729-026-08	TRANSISTOR 2SC4495		R370	1-249-417-11	CARBON 1K 5%	1/4W F
Q606	8-749-010-25	TRANSISTOR MN2488-OPY-M		R375	1-249-417-11	CARBON 1K 5%	1/4W F
Q607	8-749-010-26	TRANSISTOR MP1620-OPY-M		R381	1-247-887-00	CARBON 220K 5%	1/4W
Q608	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R385	1-247-887-00	CARBON 220K 5%	1/4W
Q609	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R386	1-249-437-11	CARBON 47K 5%	1/4W
Q610	8-729-900-63	TRANSISTOR BN1F4M-TP		R391	1-249-437-11	CARBON 47K 5%	1/4W
Q611	8-729-900-63	TRANSISTOR BN1F4M-TP		R394	1-249-397-11	CARBON 22 5%	1/4W F
Q613	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2		R395	1-249-397-11	CARBON 22 5%	1/4W F
Q645	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R396	1-249-417-11	CARBON 1K 5%	1/4W F
Q681	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R398	1-249-417-11	CARBON 1K 5%	1/4W F
Q698	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R501	1-249-417-11	CARBON 1K 5%	1/4W F
Q745	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R502	1-249-439-11	CARBON 68K 5%	1/4W
Q992	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R503	1-249-439-11	CARBON 68K 5%	1/4W
		< RESISTOR >		R504	1-247-843-11	CARBON 3.3K 5%	1/4W
R301	1-249-401-11	CARBON 47 5%	1/4W F	R505	1-249-437-11	CARBON 47K 5%	1/4W
R301	1-249-425-11	CARBON 4.7K 5%	(US,CND) 1/4W F (AEP)	R509	1-247-807-31	CARBON 100 5%	1/4W
R302	1-249-441-11	CARBON 100K 5%	1/4W	R520	1-249-429-11	CARBON 10K 5%	1/4W
R303	1-249-440-11	CARBON 82K 5%	1/4W	R521	1-249-422-11	CARBON 2.7K 5%	1/4W F
R304	1-249-408-11	CARBON 180 5%	1/4W F	R522	1-249-433-11	CARBON 22K 5%	1/4W
R305	1-249-428-11	CARBON 8.2K 5%	1/4W F	R523	1-249-442-11	CARBON 510 5%	1/4W
R306	1-249-441-11	CARBON 100K 5%	1/4W	△ R524	1-249-408-11	CARBON 180 5%	1/4W F
R307	1-247-807-31	CARBON 100 5%	1/4W	△ R525	1-249-408-11	CARBON 180 5%	1/4W F
R308	1-249-441-11	CARBON 100K 5%	1/4W	△ R526	1-234-182-11	ENCAPSULATED COMPONENT	
R309	1-249-413-11	CARBON 470 5%	1/4W F				

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MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R527	1-240-855-91	CARBON	6.2K	5%	1/4W	R620	1-249-429-11	CARBON	10K	5%	1/4W
R528	1-249-425-11	CARBON	4.7K	5%	1/4W F	R621	1-249-422-11	CARBON	2.7K	5%	1/4W F
R529	1-247-866-11	CARBON	30K	5%	1/4W	R622	1-247-881-00	CARBON	120K	5%	1/4W
R530	1-249-421-11	CARBON	2.2K	5%	1/4W F	R623	1-249-442-11	CARBON	510	5%	1/4W
R531	1-249-433-11	CARBON	22K	5%	1/4W	△ R624	1-249-408-11	CARBON	180	5%	1/4W F
R532	1-249-437-11	CARBON	47K	5%	1/4W	△ R625	1-249-408-11	CARBON	180	5%	1/4W F
△ R533	1-249-393-11	CARBON	10	5%	1/4W F	△ R626	1-234-182-11	ENCAPSULATED COMPONENT			
△ R534	1-249-389-11	CARBON	4.7	5%	1/4W F	R627	1-240-855-91	CARBON	6.2K	5%	1/4W
R535	1-249-431-11	CARBON	15K	5%	1/4W	R628	1-249-425-11	CARBON	4.7K	5%	1/4W F
R539	1-249-427-11	CARBON	6.8K	5%	1/4W F	R629	1-247-866-11	CARBON	30K	5%	1/4W
R540	1-249-417-11	CARBON	1K	5%	1/4W F	R630	1-249-421-11	CARBON	2.2K	5%	1/4W F
R541	1-249-429-11	CARBON	10K	5%	1/4W	R631	1-249-433-11	CARBON	22K	5%	1/4W
R542	1-249-429-11	CARBON	10K	5%	1/4W	R632	1-249-437-11	CARBON	47K	5%	1/4W
R547	1-249-425-11	CARBON	4.7K	5%	1/4W F	△ R633	1-249-393-11	CARBON	10	5%	1/4W F
R548	1-249-429-11	CARBON	10K	5%	1/4W	R635	1-249-431-11	CARBON	15K	5%	1/4W
△ R549	1-249-393-11	CARBON	10	5%	1/4W F	R636	1-249-433-11	CARBON	22K	5%	1/4W
R551	1-249-417-11	CARBON	1K	5%	1/4W F	R642	1-216-453-00	METAL OXIDE	270	5%	2W F
R552	1-249-439-11	CARBON	68K	5%	1/4W						(US)
R553	1-249-439-11	CARBON	68K	5%	1/4W	R642	1-216-454-11	METAL OXIDE	390	5%	2W F
R554	1-247-843-11	CARBON	3.3K	5%	1/4W						(CND,AEP)
R555	1-247-881-00	CARBON	120K	5%	1/4W	R643	1-249-433-11	CARBON	22K	5%	1/4W
R556	1-247-881-00	CARBON	120K	5%	1/4W	R647	1-249-429-11	CARBON	10K	5%	1/4W
R559	1-247-807-31	CARBON	100	5%	1/4W	R648	1-249-425-11	CARBON	4.7K	5%	1/4W F
R570	1-249-429-11	CARBON	10K	5%	1/4W	△ R649	1-249-393-11	CARBON	10	5%	1/4W F
R571	1-249-422-11	CARBON	2.7K	5%	1/4W F	R650	1-249-425-11	CARBON	4.7K	5%	1/4W F
R572	1-249-433-11	CARBON	22K	5%	1/4W	R651	1-249-417-11	CARBON	1K	5%	1/4W F
R573	1-249-442-11	CARBON	510	5%	1/4W	R652	1-249-439-11	CARBON	68K	5%	1/4W
△ R574	1-249-408-11	CARBON	180	5%	1/4W F	R653	1-249-439-11	CARBON	68K	5%	1/4W
△ R575	1-249-408-11	CARBON	180	5%	1/4W F	R654	1-247-843-11	CARBON	3.3K	5%	1/4W
△ R576	1-234-182-11	ENCAPSULATED COMPONENT				R655	1-249-409-11	CARBON	220	5%	1/4W F
R577	1-240-855-91	CARBON	6.2K	5%	1/4W	R656	1-249-409-11	CARBON	220	5%	1/4W F
R578	1-249-425-11	CARBON	4.7K	5%	1/4W F	R657	1-249-429-11	CARBON	10K	5%	1/4W
R579	1-247-866-11	CARBON	30K	5%	1/4W	△ R658	1-249-393-11	CARBON	10	5%	1/4W F
R580	1-249-421-11	CARBON	2.2K	5%	1/4W F	R659	1-247-807-31	CARBON	100	5%	1/4W
R581	1-249-433-11	CARBON	22K	5%	1/4W	R672	1-249-433-11	CARBON	22K	5%	1/4W
R582	1-249-437-11	CARBON	47K	5%	1/4W	R680	1-249-429-11	CARBON	10K	5%	1/4W
△ R583	1-249-393-11	CARBON	10	5%	1/4W F	R681	1-249-425-11	CARBON	4.7K	5%	1/4W F
△ R584	1-249-389-11	CARBON	4.7	5%	1/4W F	△ R682	1-249-393-11	CARBON	10	5%	1/4W F
R585	1-249-431-11	CARBON	15K	5%	1/4W	R690	1-249-433-11	CARBON	22K	5%	1/4W
R586	1-249-429-11	CARBON	10K	5%	1/4W	R695	1-249-419-11	CARBON	1.5K	5%	1/4W F
R587	1-249-425-11	CARBON	4.7K	5%	1/4W F	R696	1-249-431-11	CARBON	15K	5%	1/4W
R588	1-249-393-11	CARBON	10	5%	1/4W F	R739	1-215-868-00	METAL OXIDE	680	5%	1W F
R590	1-249-433-11	CARBON	22K	5%	1/4W	R747	1-249-429-11	CARBON	10K	5%	1/4W
R592	1-249-381-11	CARBON	1	5%	1/4W F	R748	1-249-425-11	CARBON	4.7K	5%	1/4W F
R593	1-249-381-11	CARBON	1	5%	1/4W F	R789	1-215-868-00	METAL OXIDE	680	5%	1W F
R594	1-249-425-11	CARBON	4.7K	5%	1/4W F	R991	1-249-417-11	CARBON	1K	5%	1/4W F
R595	1-249-419-11	CARBON	1.5K	5%	1/4W F	R992	1-249-439-11	CARBON	68K	5%	1/4W
R596	1-249-431-11	CARBON	15K	5%	1/4W	R993	1-249-433-11	CARBON	22K	5%	1/4W
R597	1-249-419-11	CARBON	1.5K	5%	1/4W F	R995	1-249-441-11	CARBON	100K	5%	1/4W
R599	1-249-431-11	CARBON	15K	5%	1/4W	R996	1-249-429-11	CARBON	10K	5%	1/4W
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	1-249-418-11	CARBON	1.2K	5%	1/4W F						
R609	1-247-807-31	CARBON	100	5%	1/4W						

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MAIN

MUTING

REAR-AMP

Ref. No.	Part No.	Description	Remarks
		< RELAY >	
RY501	1-515-920-11	RELAY (24V)	
RY502	1-515-920-11	RELAY (24V)	
RY601	1-515-920-11	RELAY (24V)	
RY602	1-515-793-11	RELAY	
RY681	1-515-793-11	RELAY	

*	1-673-346-11	MUTING BOARD	*****
		< LED >	
D101	8-719-313-45	LED SEL6810A-TH10 (MUTING)	
		< RESISTOR >	
R134	1-216-041-00	METAL CHIP 470 5% 1/10W	
R135	1-216-045-00	METAL CHIP 680 5% 1/10W	
R136	1-216-049-91	RES,CHIP 1K 5% 1/10W	
		< SWITCH >	
S145	1-771-349-21	SWITCH, KEYBOARD (EQUALIZER)	
S146	1-771-349-21	SWITCH, KEYBOARD (BASS BOOST)	
S147	1-771-349-21	SWITCH, KEYBOARD (MUTING)	

	A-4419-390-A	REAR-AMP BOARD, COMPLETE (US,CND)	*****
*	A-4419-391-A	REAR-AMP BOARD, COMPLETE (AEP)	*****
		< CONNECTOR >	
C701	1-126-965-11	ELECT 22uF 20% 50V	
C702	1-128-811-11	CERAMIC 150PF 5% 50V	
C703	1-102-233-00	CERAMIC 33PF 10% 500V	
C704	1-107-586-11	CERAMIC 6PF 0.5PF 500V	
C705	1-126-934-11	ELECT 220uF 20% 10V	
C706	1-106-351-00	MYLAR 2200PF 5% 200V	
C707	1-106-351-00	MYLAR 2200PF 5% 200V	
C708	1-109-876-11	FILM 0.033uF 10% 250V	
C720	1-104-664-11	ELECT 47uF 20% 16V	
C721	1-107-597-11	CERAMIC 22PF 10% 500V	
C722	1-107-597-11	CERAMIC 22PF 10% 50V	
C723	1-162-286-31	CERAMIC 220PF 10% 50V	
C724	1-126-964-11	ELECT 10uF 20% 50V	
C725	1-136-157-00	FILM 0.022uF 5% 50V	
C726	1-136-153-00	FILM 0.01uF 5% 50V	
C739	1-162-288-31	CERAMIC 330PF 10% 50V	
C749	1-102-934-00	CERAMIC 1.0PF 0.25PF 50V	
C751	1-126-965-11	ELECT 22uF 20% 50V	
C752	1-128-811-11	CERAMIC 150PF 5% 50V	
C753	1-102-233-00	CERAMIC 33PF 10% 500V	
C754	1-107-586-11	CERAMIC 6PF 0.5PF 500V	
C755	1-126-934-11	ELECT 220uF 20% 10V	
C756	1-106-351-00	MYLAR 2200PF 5% 200V	
C757	1-106-351-00	MYLAR 2200PF 5% 200V	
C758	1-109-876-11	FILM 0.033uF 10% 250V	
C770	1-104-664-11	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	

Ref. No.	Part No.	Description	Remarks
C779	1-102-934-00	CERAMIC 1.0PF 0.25PF 50V	
C780	1-128-809-11	CERAMIC 100PF 5% 50V	
C789	1-162-288-31	CERAMIC 330PF 10% 50V	
C798	1-128-560-11	ELECT 22uF 20% 100V	
C799	1-128-560-11	ELECT 22uF 20% 100V	
		< CONNECTOR >	
CNP701	1-785-102-11	PIN, CONNECTOR 4P	
CNP711	1-784-923-11	PIN, CONNECTOR 7P	
CNP712	1-785-102-21	PIN, CONNECTOR 4P	
CNP713	-784-924-11	PIN, CONNECTOR 8P	
		< DIODE >	
D701	8-719-911-19	DIODE 1SS133T-72	
D702	8-719-109-51	DIODE MTZJ-T-72-2.2	
D703	8-719-109-51	DIODE MTZJ-T-72-2.2	
D704	8-719-911-19	DIODE 1SS133T-72	
D705	8-719-911-19	DIODE 1SS133T-72	
D706	8-719-911-19	DIODE 1SS133T-72	
D749	8-719-911-19	DIODE 1SS133T-72	
D751	8-719-911-19	DIODE 1SS133T-72	
D752	8-719-109-51	DIODE MTZJ-T-72-2.2	
D753	8-719-109-51	DIODE MTZJ-T-72-2.2	
D754	8-719-911-19	DIODE 1SS133T-72	
D798	8-719-911-19	DIODE 1SS133T-72	
D799	8-719-911-19	DIODE 1SS133T-72	
		< IC >	
IC701	8-759-326-52	IC uPC2581V	
		< TRANSISTOR >	
Q704	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q705	8-729-026-08	TRANSISTOR 2SC4495	
Q706	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q707	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q708	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q709	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q710	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q754	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q755	8-729-026-08	TRANSISTOR 2SC4495	
Q756	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q757	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q758	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q798	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q799	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
		< RESISTOR >	
R701	1-249-417-11	CARBON 1K 5% 1/4W F	
R702	1-247-881-00	CARBON 120K 5% 1/4W	
R703	1-249-439-11	CARBON 68K 5% 1/4W	
R704	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R705	1-247-807-31	CARBON 100 5% 1/4W	
R712	1-249-439-11	CARBON 68K 5% 1/4W	
R720	1-249-429-11	CARBON 10K 5% 1/4W	
R721	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R722	1-249-433-11	CARBON 22K 5% 1/4W	
R723	1-249-442-11	CARBON 510 5% 1/4W	

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.

REAR-AMP	ROTARY	SP	SP-SW	SW
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Ref. No.	Part No.	Description	Remarks
△ R724	1-249-408-11	CARBON 180 5%	1/4W F
△ R725	1-249-408-11	CARBON 180 5%	1/4W F
△ R726	1-234-182-11	ENCAPSULATED COMPONENT	
R727	1-240-855-91	CARBON 6.2K 5%	1/4W
R728	1-249-425-11	CARBON 4.7K 5%	1/4W F
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
R732	1-249-437-11	CARBON 47K 5%	1/4W
△ R733	1-249-393-11	CARBON 10 5%	1/4W F
R735	1-249-431-11	CARBON 15K 5%	1/4W
△ R749	1-249-393-11	CARBON 10 5%	1/4W F
R751	1-249-417-11	CARBON 1K 5%	1/4W F
R752	1-247-881-00	CARBON 120K 5%	1/4W
R753	1-249-439-11	CARBON 68K 5%	1/4W
R754	1-249-418-11	CARBON 1.2K 5%	1/4W F
R755	1-247-807-31	CARBON 100 5%	1/4W
R762	1-249-439-11	CARBON 68K 5%	1/4W
R770	1-249-429-11	CARBON 10K 5%	1/4W
R771	1-249-422-11	CARBON 2.7K 5%	1/4W F
R772	1-249-433-11	CARBON 22K 5%	1/4W
R773	1-249-442-11	CARBON 510 5%	1/4W
△ R774	1-249-408-11	CARBON 180 5%	1/4W F
△ R775	1-249-408-11	CARBON 180 5%	1/4W F
△ R776	1-234-182-11	ENCAPSULATED COMPONENT	
R777	1-240-855-91	CARBON 6.2K 5%	1/4W
R778	1-249-425-11	CARBON 4.7K 5%	1/4W F
R782	1-249-437-11	CARBON 47K 5%	1/4W
△ R783	1-249-393-11	CARBON 10 5%	1/4W F
R790	1-249-433-11	CARBON 22K 5%	1/4W
R795	1-249-419-11	CARBON 1.5K 5%	1/4W F
R796	1-249-431-11	CARBON 15K 5%	1/4W
R798	1-249-419-11	CARBON 1.5K 5%	1/4W F
R799	1-249-431-11	CARBON 15K 5%	1/4W
< RELAY >			
RY701	1-515-920-11	RELAY (24V)	

*	1-673-348-11	ROTARY BOARD	

< CONNECTOR >			
* CNP155	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
< VARIABLE RESISTOR >			
RV101	1-467-808-11	ENCODER, ROTARY (JOG DIAL)	
< CONNECTOR >			
* TP701	1-560-060-00	PIN, CONNECTOR 2P	
* TP751	1-560-060-00	PIN, CONNECTOR 2P	

Ref. No.	Part No.	Description	Remarks
*	1-673-355-11	SP BOARD	

< CAPACITOR >			
CC41	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
CC42	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
CC43	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
CC47	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
CC97	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
CC251	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
< JACK >			
JJ103	1-774-819-11	JACK, PIN 2P (WOOFER)	
< COIL >			
L601	1-420-872-00	COIL, AIR-CORE (US, CND)	
L701	1-420-872-00	COIL, AIR-CORE (US, CND)	
L751	1-420-872-00	COIL, AIR-CORE (US, CND)	
< RESISTOR >			
R634	1-249-389-11	CARBON 4.7 5%	1/4W F
R734	1-249-389-11	CARBON 4.7 5%	1/4W F
R784	1-249-389-11	CARBON 4.7 5%	1/4W F
RR251	1-216-049-91	RES,CHIP 1K 5%	1/10W
< TERMINAL BOARD >			
TM501	1-694-529-11	TERMINAL BOARD (SP)	
TM701	1-694-528-11	TERMINAL BOARD (SPEAKER) (6P)	

*	1-673-347-11	SP-SW BOARD	

< DIODE >			
D120	8-719-016-74	DIODE 1SS352-TPH3	
D121	8-719-016-74	DIODE 1SS352-TPH3	
< SWITCH >			
S150	1-771-349-21	SWITCH, KEYBOARD (POWER)	
S151	1-762-268-11	SWITCH, ROTARY (SPEAKERS)	

A-4419-404-A SW BOARD, COMPLETE (US,CND)			

*	A-4419-405-A	SW BOARD, COMPLETE (AEP)	

< CAPACITOR >			
C151	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C152	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C153	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C154	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C155	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C156	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C158	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C159	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C160	1-163-251-11	CERAMIC CHIP 100PF 5%	50V

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< CONNECTOR >					
CNS110	1-770-399-11	HOUSING, CONNECTOR(PC BOARD)6P		R181	1-216-049-91	RES,CHIP 1K 5%	1/10W
CNS111	1-770-399-11	HOUSING, CONNECTOR(PC BOARD)6P		R182	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
				R183	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
				R184	1-216-037-00	METAL CHIP 330 5%	1/10W
				R185	1-216-041-00	METAL CHIP 470 5%	1/10W
		< LED >					
D151	8-719-063-91	LED SLR325DC-P-T32 (LEVEL)		R186	1-216-045-00	METAL CHIP 680 5%	1/10W
D152	8-719-063-91	LED SLR325DC-P-T32 (SUR)		R187	1-216-049-91	RES,CHIP 1K 5%	1/10W
D154	8-719-032-98	LED SEL5820A-TP15 (A.F.D.)		R188	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
D155	8-719-063-91	LED SLR325DC-P-T32 (MD/TAPE)		RR61	1-216-037-00	METAL CHIP 330 5%	1/10W
D156	8-719-032-98	LED SEL5820A-TP15 (2CH)		RR62	1-216-029-00	METAL CHIP 150 5%	1/10W
D157	8-719-063-91	LED SLR325DC-P-T32 (SET UP)		RR63	1-216-037-00	METAL CHIP 330 5%	1/10W
D158	8-719-063-91	LED SLR325DC-P-T32 (EQ)		RR64	1-216-025-91	RES,CHIP 100 5%	1/10W
D159	8-719-063-91	LED SLR325DC-P-T32 (5.1CH INPUT)		RR65	1-216-029-00	METAL CHIP 150 5%	1/10W
D160	8-719-063-91	LED SLR325DC-P-T32 (PHONO)		RR66	1-216-025-91	RES,CHIP 100 5%	1/10W
D161	8-719-063-91	LED SLR325DC-P-T32 (TUNER)		RR67	1-216-029-00	METAL CHIP 150 5%	1/10W
D162	8-719-063-91	LED SLR325DC-P-T32 (CD)		RR70	1-216-025-91	RES,CHIP 100 5%	1/10W
D164	8-719-073-95	LED SPR-335MDTT31 (VIDEO 1)		RR71	1-216-029-00	METAL CHIP 150 5%	1/10W
D165	8-719-073-95	LED SPR-335MDTT31 (VIDEO 2)		RR72	1-216-025-91	RES,CHIP 100 5%	1/10W
D167	8-719-073-95	LED SPR-335MDTT31 (DVD/LD)		RR73	1-216-029-00	METAL CHIP 150 5%	1/10W
D168	8-719-073-95	LED SPR-335MDTT31 (TV/SAT)		RR74	1-216-037-00	METAL CHIP 330 5%	1/10W
D169	8-719-063-91	LED SLR325DC-P-T32 (NAME)		RR75	1-216-037-00	METAL CHIP 330 5%	1/10W
D170	8-719-032-98	LED SEL5820A-TP15 (MODE)				< SWITCH >	
		< IC >					
IC106	8-759-373-50	IC NJU3719L		S101	1-771-349-21	SWITCH, KEYBOARD (1)	
				S102	1-771-349-21	SWITCH, KEYBOARD (2)	
				S103	1-771-349-21	SWITCH, KEYBOARD (3)	
				S104	1-771-349-21	SWITCH, KEYBOARD (4)	
				S105	1-771-349-21	SWITCH, KEYBOARD (5)	
		< RESISTOR >					
R100	1-216-089-91	RES,CHIP 47K 5%	1/10W	S106	1-771-349-21	SWITCH, KEYBOARD (6)	
R151	1-216-037-00	METAL CHIP 330 5%	1/10W	S107	1-771-349-21	SWITCH, KEYBOARD (7)	
R152	1-216-041-00	METAL CHIP 470 5%	1/10W	S108	1-771-349-21	SWITCH, KEYBOARD (8)	
R153	1-216-045-00	METAL CHIP 680 5%	1/10W	S109	1-771-349-21	SWITCH, KEYBOARD (9)	
R154	1-216-049-91	RES,CHIP 1K 5%	1/10W	S110	1-771-349-21	SWITCH, KEYBOARD (0)	
R155	1-216-053-00	METAL CHIP 1.5K 5%	1/10W	S111	1-771-349-21	SWITCH, KEYBOARD (MEMORY)	
R156	1-216-057-00	METAL CHIP 2.2K 5%	1/10W	S112	1-771-349-21	SWITCH, KEYBOARD (DIRECT)	
R157	1-216-065-91	RES,CHIP 4.7K 5%	1/10W	S113	1-771-349-21	SWITCH, KEYBOARD (PRESET/PTY SELECT+)	
R158	1-216-037-00	METAL CHIP 330 5%	1/10W	S114	1-771-349-21	SWITCH, KEYBOARD (SUR)	
R159	1-216-041-00	METAL CHIP 470 5%	1/10W	S115	1-771-349-21	SWITCH, KEYBOARD (FM MODE)	
R160	1-216-045-00	METAL CHIP 680 5%	1/10W	S116	1-771-349-21	SWITCH, KEYBOARD (RDSEON)	
R161	1-216-049-91	RES,CHIP 1K 5%	1/10W	S117	1-771-349-21	SWITCH, KEYBOARD (FM/AM)	
R162	1-216-053-00	METAL CHIP 1.5K 5%	1/10W	S118	1-771-349-21	SWITCH, KEYBOARD (A.F.D.)	
R163	1-216-057-00	METAL CHIP 2.2K 5%	1/10W	S119	1-771-349-21	SWITCH, KEYBOARD (SET UP)	
R164	1-216-065-91	RES,CHIP 4.7K 5%	1/10W	S120	1-771-349-21	SWITCH, KEYBOARD (MD/TAPE)	
R165	1-216-037-00	METAL CHIP 330 5%	1/10W	S121	1-771-349-21	SWITCH, KEYBOARD (VIDEO 1)	
R166	1-216-041-00	METAL CHIP 470 5%	1/10W	S122	1-771-349-21	SWITCH, KEYBOARD (VIDEO 2)	
R167	1-216-045-00	METAL CHIP 680 5%	1/10W	S123	1-771-349-21	SWITCH, KEYBOARD (CD)	
R168	1-216-049-91	RES,CHIP 1K 5%	1/10W	S125	1-771-349-21	SWITCH, KEYBOARD (RDS PTY)(AEP)	
R169	1-216-053-00	METAL CHIP 1.5K 5%	1/10W	S127	1-771-349-21	SWITCH, KEYBOARD (TUNER)	
R170	1-216-057-00	METAL CHIP 2.2K 5%	1/10W	S128	1-771-349-21	SWITCH, KEYBOARD (TV/LD)	
R171	1-216-065-91	RES,CHIP 4.7K 5%	1/10W	S129	1-771-349-21	SWITCH, KEYBOARD (DVD)	
R172	1-216-037-00	METAL CHIP 330 5%	1/10W	S130	1-771-349-21	SWITCH, KEYBOARD (PHONO)	
R173	1-216-041-00	METAL CHIP 470 5%	1/10W	S131	1-771-349-21	SWITCH, KEYBOARD (INPUT MODE)	
R174	1-216-045-00	METAL CHIP 680 5%	1/10W	S132	1-771-349-21	SWITCH, KEYBOARD (5.1CH INPUT)	
R175	1-216-049-91	RES,CHIP 1K 5%	1/10W (AEP)	S133	1-771-349-21	SWITCH, KEYBOARD (EQ)	
R176	1-216-053-00	METAL CHIP 1.5K 5%	1/10W (AEP)	S134	1-771-349-21	SWITCH, KEYBOARD (MODE)	
				S135	1-771-349-21	SWITCH, KEYBOARD (2CH)	
R178	1-216-037-00	METAL CHIP 330 5%	1/10W	S136	1-771-349-21	SWITCH, KEYBOARD (>)	
R179	1-216-041-00	METAL CHIP 470 5%	1/10W	S137	1-771-349-21	SWITCH, KEYBOARD (<)	
R180	1-216-045-00	METAL CHIP 680 5%	1/10W				

SW

S-VIDEO

TUNER

VIDEO

Ref. No.	Part No.	Description	Remarks
S138	1-771-349-21	SWITCH, KEYBOARD (NAME)	
S139	1-771-349-21	SWITCH, KEYBOARD (ENTER)	
S140	1-771-349-21	SWITCH, KEYBOARD (SHIFT)	
S141	1-771-349-21	SWITCH, KEYBOARD (TUNING CHAR -)	
S142	1-771-349-21	SWITCH, KEYBOARD (TUNING CHAR +)	
S143	1-771-349-21	SWITCH, KEYBOARD (PRESET/PTY SELECT -)	
S144	1-771-349-21	SWITCH, KEYBOARD (LEVEL)	

*	1-673-357-11	S-VIDEO BOARD	

		< CAPACITOR >	
C214	1-104-664-11	ELECT 47uF	20% 16V
C264	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		< CONNECTOR >	
CNS211	1-695-094-11	SOCKET, CONNECTOR 11P	
CNS215	1-784-776-11	CONNECTOR, FFC 15P	
		< IC >	
IC202	8-759-245-79	IC M5F7905L	

*	1-673-358-11	TUNER BOARD	

		< CAPACITOR >	
C1	1-163-263-11	CERAMIC CHIP 330PF	5% 50V (AEP)
C2	1-126-961-11	ELECT 2.2uF	20% 50V (AEP)
C3	1-126-964-11	ELECT 10uF	20% 50V (AEP)
C4	1-165-319-11	CERAMIC CHIP 0.1uF	50V (AEP)
C5	1-163-135-00	CERAMIC CHIP 560PF	5% 50V (AEP)
C6	1-163-249-11	CERAMIC CHIP 82PF	5% 50V (AEP)
C7	1-163-243-11	CERAMIC CHIP 47PF	5% 50V (AEP)
C381	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C382	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
C399	1-126-964-11	ELECT 10uF	20% 50V
		< CONNECTOR >	
* CNS303	1-569-306-11	SOCKET, CONNECTOR (L TYRE) 15P	
CNS305	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P	
		< IC >	
IC1	8-759-557-36	IC BU1924F-E2 (AEP)	
IC399	8-759-708-12	IC NJM78L12A-T3	
		< COIL >	
L1	1-408-982-11	INDUCTOR 100uH (AEP)	

Ref. No.	Part No.	Description	Remarks
		< RESISTOR >	
R1	1-216-025-91	RES,CHIP 100	5% 1/10W (AEP)
R2	1-216-025-91	RES,CHIP 100	5% 1/10W (AEP)
R3	1-216-057-00	METAL CHIP 2.2K	5% 1/10W (AEP)
		< VIBRATOR >	
X1	1-579-900-21	VIBRATOR, CRYSTAL (4.33MHz)(AEP)	

*	1-673-356-11	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	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C206	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C207	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C208	1-126-964-11	ELECT 10uF	20% 50V
C209	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C210	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C211	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C212	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C213	1-104-664-11	ELECT 47uF	20% 16V
C215	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C216	1-104-664-11	ELECT 47uF	20% 16V
		< CONNECTOR >	
CNS212	1-695-094-11	SOCKET, CONNECTOR 11P	
		< DIODE >	
D201	8-719-801-78	DIODE 1SS184-TE85L	
		< IC >	
IC201	8-759-536-24	IC NJM-2296M-TE2	
		< JACK >	
J201	1-785-867-11	JACK, PIN 1P (MONITOR)	
J202	1-785-866-11	JACK, PIN 3P (DVD/VIDEO2)	
J203	1-785-866-11	JACK, PIN 3P (VIDEO 2/VIDEO 1)	
J204	1-563-330-11	JACK (S-LINK)	
		< RESISTOR >	
R201	1-216-022-00	METAL CHIP 75	5% 1/10W
R202	1-216-022-00	METAL CHIP 75	5% 1/10W
R203	1-216-022-00	METAL CHIP 75	5% 1/10W
R204	1-216-022-00	METAL CHIP 75	5% 1/10W
R205	1-216-022-00	METAL CHIP 75	5% 1/10W
R206	1-216-022-00	METAL CHIP 75	5% 1/10W
R207	1-216-022-00	METAL CHIP 75	5% 1/10W
R208	1-216-022-00	METAL CHIP 75	5% 1/10W

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	A-4419-407-A	VOLUME BOARD, COMPLETE (US,CND)				< VARIABLE RESISTOR >	
	A-4426-060-A	VOLUME BOARD, COMPLETE (AEP)		RV401	1-225-776-11	RES, VAR, CARBON 100K/100KX5 (MASTER VOLUME)	
		< CAPACITOR >				MISCELLANEOUS	
C401	1-126-966-11	ELECT	33uF 20% 16V			*****	
C402	1-126-966-11	ELECT	33uF 20% 16V				
C410	1-126-965-11	ELECT	22uF 20% 50V	△57	1-769-743-11	CORD, POWER (CND)	
C411	1-126-965-11	ELECT	22uF 20% 50V	△57	1-769-744-11	CORD, POWER (AEP)	
C412	1-126-965-11	ELECT	22uF 20% 50V	△57	1-783-531-11	CORD, POWER (US)	
				64	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)	
C413	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	66	1-773-048-11	WIRE (FLAT TYPE) (17 CORE)	
C414	1-163-239-11	CERAMIC CHIP	33PF 5% 50V				
C415	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	67	1-773-112-11	WIRE (FLAT TYPE) (19 CORE)	
C421	1-163-259-91	CERAMIC CHIP	220PF 5% 50V	△T902	1-433-771-11	TRANSFORMER, POWER (AEP)	
C422	1-163-259-91	CERAMIC CHIP	220PF 5% 50V	△T902	1-433-884-11	TRANSFORMER, POWER (US)	
				△T902	1-433-885-11	TRANSFORMER, POWER (CND)	
C423	1-163-259-91	CERAMIC CHIP	220PF 5% 50V	TU301	1-693-407-11	TUNER (US,CND)	
C460	1-126-965-11	ELECT	22uF 20% 50V				
C461	1-126-965-11	ELECT	22uF 20% 50V	TU301	1-693-409-11	TUNER (AEP)	
C462	1-126-965-11	ELECT	22uF 20% 50V			*****	
C463	1-163-239-11	CERAMIC CHIP	33PF 5% 50V			ACCESORIES	

C464	1-163-239-11	CERAMIC CHIP	33PF 5% 50V			1-501-594-11	ANTENNA (FM)
C465	1-163-239-11	CERAMIC CHIP	33PF 5% 50V			1-501-721-11	ANTENNA (LOOP)
C471	1-163-259-91	CERAMIC CHIP	220PF 5% 50V			3-866-296-11	MANUAL, INSTRUCTION (RM-PP402) (ENGLISH)
C472	1-163-259-91	CERAMIC CHIP	220PF 5% 50V			3-866-296-21	MANUAL, INSTRUCTION (RM-PP402) (FRENCH,SPANISH) (CND,AEP)
C473	1-163-259-91	CERAMIC CHIP	220PF 5% 50V			3-866-296-41	MANUAL, INSTRUCTION (RM-PP402) (DUTCH,SWEDISH,GERMAN,ITALIAN,PORTUGUESE) (AEP)
		< CONNECTOR >				3-866-296-51	MANUAL, INSTRUCTION(RM-PP402) (DANISH,FINNISH) (AEP)
CNP101	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P				3-866-670-11	MANUAL,COMMONNESS INSTRUCTION (ENGLISH) (US)
		< IC >				3-866-670-21	MANUAL,COMMONNESS INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH) (CND,AEP)
IC408	8-759-636-55	IC M5218AFP-T1				3-866-970-11	MANUAL, INSTRUCTION(ENGLISH) (US,CND)
IC409	8-759-636-55	IC M5218AFP-T1				3-866-970-21	MANUAL, INSTRUCTION(FRENCH) (CND)
IC410	8-759-636-55	IC M5218AFP-T1				3-866-970-31	MANUAL, INSTRUCTION (ENGLISH,FRENCH,DUTCH,SWEDISH) (AEP)
		< RESISTOR >				3-866-970-41	MANUAL, INSTRUCTION (GERMAN,SPANISH,ITALIAN,PORTUGUESE) (AEP)
R413	1-216-097-91	RES,CHIP	100K 5% 1/10W			3-866-970-51	MANUAL, INSTRUCTION(DANISH,FINNISH) (AEP)
R414	1-216-097-91	RES,CHIP	100K 5% 1/10W			4-978-977-01	COVER BATTERY(FOR RM-PP402)
R415	1-216-097-91	RES,CHIP	100K 5% 1/10W			8-917-666-90	REMOTE COMMANDER(RM-PP402)
R416	1-216-067-00	METAL CHIP	5.6K 5% 1/10W			*****	
R417	1-216-067-00	METAL CHIP	5.6K 5% 1/10W			HARDWARE LIST	

R418	1-216-089-91	RES,CHIP	47K 5% 1/10W				
R419	1-216-089-91	RES,CHIP	47K 5% 1/10W	#1	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 IT-3	
R420	1-216-089-91	RES,CHIP	47K 5% 1/10W	#2	7-685-881-09	SCREW +BVTT 4 × 8 (S)	
R421	1-216-089-91	RES,CHIP	47K 5% 1/10W				
R463	1-216-097-91	RES,CHIP	100K 5% 1/10W				
R464	1-216-097-91	RES,CHIP	100K 5% 1/10W				
R465	1-216-097-91	RES,CHIP	100K 5% 1/10W				
R466	1-216-067-00	METAL CHIP	5.6K 5% 1/10W				
R467	1-216-067-00	METAL CHIP	5.6K 5% 1/10W				
R468	1-216-067-00	METAL CHIP	5.6K 5% 1/10W				
R469	1-216-089-91	RES,CHIP	47K 5% 1/10W				
R470	1-216-089-91	RES,CHIP	47K 5% 1/10W				
R471	1-216-089-91	RES,CHIP	47K 5% 1/10W				

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.

REVISION HISTORY

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

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