STR-DE1015G

SERVICE MANUAL

US Model
Canadian Model

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SPECIFICATIONS

Audio power specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

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

Amplifier section

POWER OUTPUT

Stereo mode	8 ohms 20 Hz - 20 kHz, THD 0.09%, 100 W + 100 W
Surround mode	(8 ohms at 1kHz, THD 0.8%) Front: 100 W/ch Center*: 100 W Rear*: 100 W/ch * No sound may be output when using certain sound sources and/or sound mode settings.
Dynamic power output	155 W + 155 W, 8 ohms 220 W + 220 W, 4 ohms
Harmonic distortion at rated output	Less than 0.09% (Direct Pass)
Frequency response	PHONO: RIAA equalization curve ±0.5 dB CD, TAPE, DAT/MD, LD/DVD, TV/DBS, VIDEO: 10 Hz - 50 kHz $^{+0.5}_{-2}$ dB (Direct Pass)

Input (ANALOG)

	Sensitivity	Impedance	S/N
PHONO	2.5 mV	50 kilohms	75 dB[1] (A, 2.5 mV)
TAPE, DAT/MD, VIDEO, LD/DVD , TV/DBS, CD	150 mV	50 kilohms	82 dB[1] (A, 150mV)

Input (DIGITAL)

	Sensitivity	Impedance	S/N
LD/DVD AC-3 RF	–	75 ohms	100 dB (A, 20 kHz LPF)
LD/DVD, CD, DAT/MD OPTICAL	–	–	100 dB (A, 20 kHz LPF)

[1] '78 IHF

— Continued on next page —

FM STEREO FM-AM RECEIVER

MICROFILM

SONY®

Outputs
REC OUT VIDEO 1, 2
(AUDIO) OUT:
Voltage 150 mV,
Impedance 10 kilohms
WOOFER OUT
Voltage: 2 V
Impedance: 1 kilohms
PHONES: Accepts low and high impedance headphones

BASS BOOST +6 dB at 50 Hz

Digital signal processor section

Modulation (A/D conversion) High Density Linear Converter

Demodulation (D/A conversion) High Density Linear Converter (Advanced Pulse D/A converter)

Sampling frequency 48 kHz

Surround
LFE MIX
MUTE, -20 ~ 0 dB, 0.5 dB step
D.RANGE COMP
OFF, 0.1 ~ 0.9, STD, MAX
REAR level
–20 ~ +10 dB, 0.5 dB step
CENTER level
–20 ~ +10 dB, 0.5 dB step
SUB WOOFER level
–20 ~ +10 dB, 0.5 dB step
WALL
17-step adjustable
SEAT
L/R 17-step adjustable
F/R 17-step adjustable
EFFECT
21-step adjustable
REVERB time
17-step adjustable

The available parameters are different for each sound field, see page 37 for details.

Equalizer
Band
BASS/TREBLE
Turnover frequency
BASS: 99 Hz ~ 992 Hz
TREBLE: 1.0 kHz ~ 8.6 kHz
Level
±10 dB, 0.5 dB step

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals 75 ohms, unbalanced

Sensitivity Mono: 18.3 dBf, 4.5 µV
Stereo: 38.3 dBf, 45 µV

Usable sensitivity 11.2 dBf, 2 µV (IHF)

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz Mono: 0.3 %
Stereo: 0.5 %

Separation 45 dB at 1 kHz

Frequency response 30 Hz - 15 kHz $^{+0.5}_{-2}$ dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range With 10 kHz interval*
530 - 1710 kHz
With 9 kHz interval:
531 - 1710 kHz

Antenna Loop antenna

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

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

Harmonic distortion 0.5 % (50 mV/m, 400 kHz)

Selectivity At 9 kHz: 35 dB
At 10 kHz: 40 dB

* You can change the AM tuning interval between 9 kHz and 10 kHz. After tuning in any AM station, turn off the receiver. While holding down the PRESET + button, press the POWER switch. When you change the interval, all the preset stations will be erased. To reset the interval, repeat the same procedure.

Video section

Inputs 1 Vp-p 75 ohms

Outputs 1 Vp-p 75 ohms

General

System
Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: Low-noise NF type equalizer
Power amplifier section: Pure-complimentary SEPP

Power requirements 120 V AC, 60 Hz

Power consumption USA models: 290 W
Canada models: 480 VA

AC outlets 2 switched, total 120 W

Dimensions 430 x 155 x 350 mm
(17 x 6 1/8 x 13 7/8 inches)

Mass (Approx.) 11.4 kg (25 lb 3 oz)

Supplied accessories
- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander (remote) (RM-H501) (1)
- Size AA (R6) batteries (2)
- IR repeater (1)
- Video Cable (1)
- Control S cable for TV (1)

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING !!

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

SAFETY CHECK-OUT

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

LEAKAGE

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

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

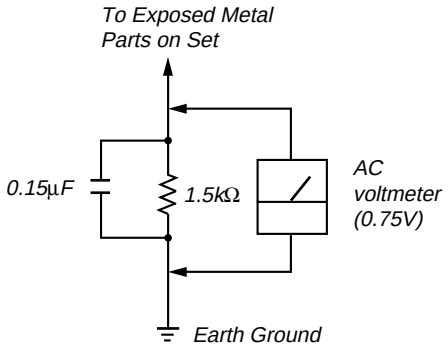
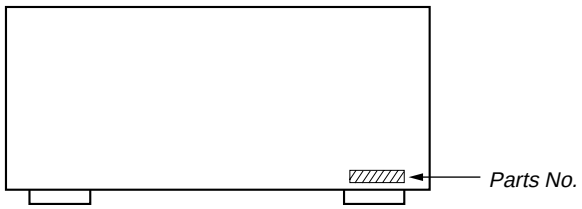


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION — BACK PANEL —



Parts No.	Model
4-989-885-4□	US model
4-989-885-5□	Canadian model

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

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

SECTION 1
SERVICING NOTE

ALL CLEAR

Mode which erases all the user memories registered in this unit and sets to setting at shipment.

Procedure:

1. With the power turned OFF, press the [POWER] button while pressing the [MODE] button, [AUDIO FUNCTION >] and [VIDEO FUNCTION >] button simultaneously to turn ON the power.
2. ALL CLEAR 3/5 will be displayed on the fluorescent indicator tube, and ALL CLEAR will be executed.

FACTORY SET

Mode which sets the memory of the unit to the setting of adjustment and check at factory. (Not used for servicing.)

Procedure:

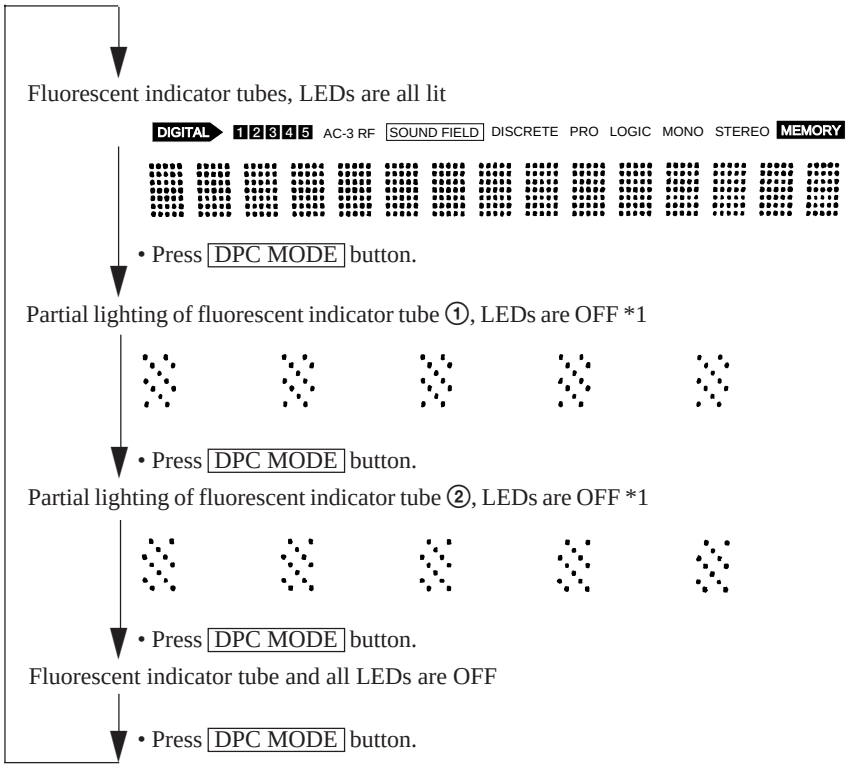
1. With the power turned OFF, press the [POWER] button while pressing the [MODE] button and [AUDIO FUNCTION >] button simultaneously to turn ON the power.
2. FACTORY SET will be displayed on the fluorescent indicator tube, and FACTORY SET will be executed.

Note: In case you return the unit to the customer, do not perform FACTRY SET. If you do it, perform ALL CLEAR.

Fluorescent indicator tube, LED all lit mode

Procedure:

1. With the power turned OFF, press the [POWER] button while pressing the [MODE] button and [VIDEO FUNCTION >] button simultaneously to turn ON the power.
2. The fluorescent display tubes and LEDs will all light up. Release the buttons in the order of [VIDEO FUNCTION >], and [MODE].
3. The Fluorescent indicator tube display changes as follows by pressing the [DPC MODE].
   (Pressing the other buttons will exit this mode.)



*1 Those other than the POWER LED go OFF.

4. To exit the mode, press the [POWER] button to turn OFF the power.

Adjustment of OSD Screen Position

The position of the screen can be adjusted freely to correct the deviation of the OSD screen caused by the monitor type that users are using.

1. Move the cursor of the remote commander supplied as an accessory, and display the OSD screen.
2. Click the SET UP of the OSD screen.
3. Next click TV SET.
4. Next click GRAPHIC POSITION SET.
5. The screen for adjusting the OSD screen position will be displayed. Adjust the position with the remote commander supplied as an accessory.
6. Click EXIT to end.

AM Tuning Step 9 kHz/10 kHz Selection

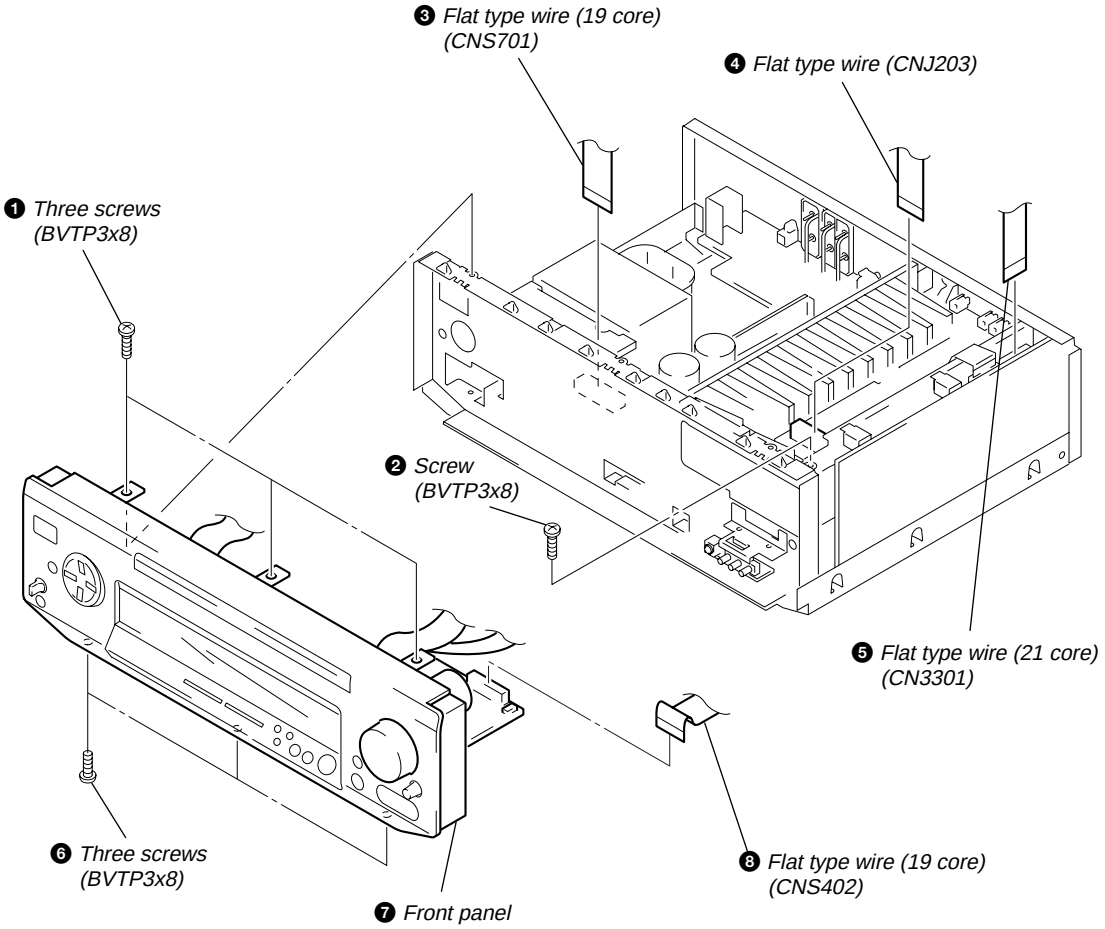
Method:

1. Turn ON the power, set the AUDIO FUNCTION to AM, and turn OFF the power.
2. While pressing the [TUNING +] button or [PRESET TUNING +] button, press the [POWER] button.
3. "AM 9K STEP" or "AM 10k STEP" will be displayed on the FL display tube.

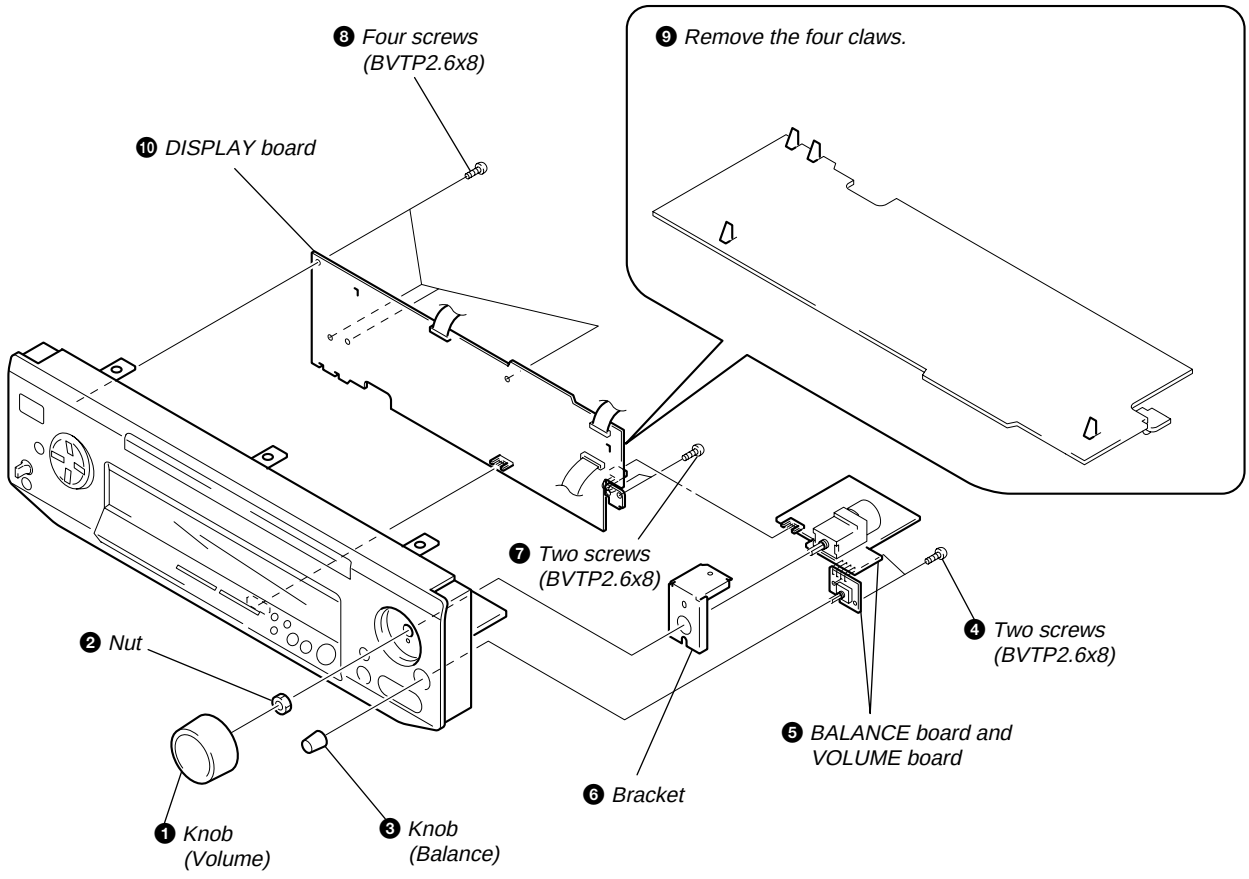
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

3-1. FRONT PANEL



3-2. BALANCE BOARD, DISPLAY BOARD AND VOLUME BOARD



SECTION 4
TEST MODE

Self-Diagnosis and Test Mode

This unit is provided with a "self-diagnosis and self-recovery function" which detects DSP errors and automatically recovers the unit, and a test mode for performing operation checks during repairs.

1. MAIN FUNCTIONS

- DSP self-diagnosis program for servicing and operation check mode.

2. ENTERING THE TEST MODE

While pressing the MODE button and AUDIO FUNCTION < button simultaneously in the power OFF state, press the POWER button.

3. Self-diagnosis Mode for Servicing/Display of DSP Errors

3-1. Self-diagnosis Mode for Servicing

Before entering the test mode, DSP self-diagnosis program for servicing will be run.

- **When an error is detected:**
  The error message is displayed on the fluorescent display tube. When several errors occur at the same time, only the last error detected will be displayed.

- **When no error is detected:**
  First, "DSP ERROR" will be displayed, then "DSP NO ERROR" will be displayed, and the operation check mode will be set.

Table-1:

Error Message/Fluorescent Display Tube	Possible Reasons
DSP ERROR	When a DSP error is detected, after this display, the contents of "3-2. Display of DSP Operations" will be displayed.

3-2. Display of DSP Operations

Display of error	Possible cause
① DSP $\frac{1}{2}$ BOOT ERROR	Mostly due to faulty connection (soldering) between DSP and microprocessor
② DSP $\frac{1}{2}$ HREQ ERROR	Faulty DSP clock (X3501 and onwards), faulty DSP part, etc.
③ DSP $\frac{1}{2}$ VRFY ERROR	Overrunning of DSP due to heat, microprocessor bugging, or IC3409 (DIGITAL board PLL) is faulty
④ DSP 1 RPLY	Faulty DSP part, or faulty microprocessor part, etc.

4. OPERATION CHECK MODE

Outputs the Lch LD/DVD OPTICAL signal to the FRONT Lch, REAR Lch, CENTER, and the Rch to the FRONT Rch, REAR Rch, and CENTER.

5. NOTE AFTER USING THE TEST MODE

Be sure to unplug the AC plug after the test mode is performed.

SECTION 5
ELECTRICAL ADJUSTMENT

TUNER SECTION

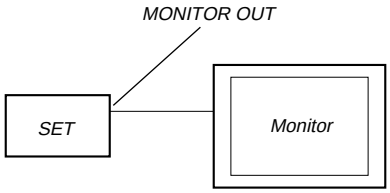
No adjustment is needed due to a tuner unit (TU401).

OSD SECTION

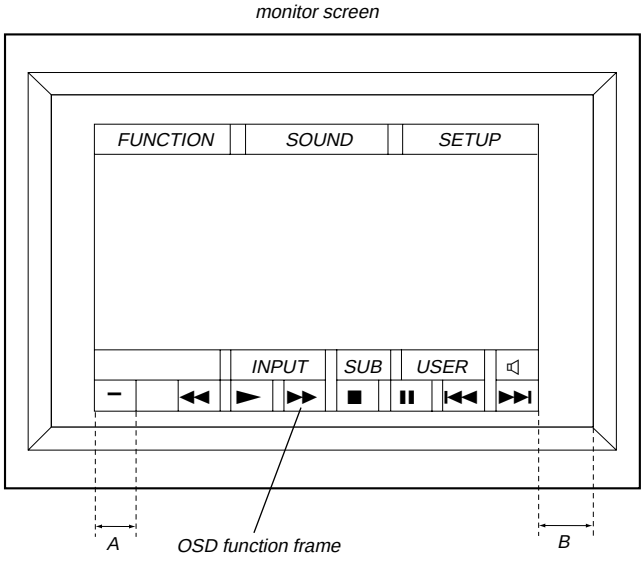
OSD WIDTH Adjustment

Note: Perform "ALL CLEAR" before this adjustment.
(Refer to Servicing note on page 4)

Connection:



Procedure:
1. Press the [POWER] button and turn ON the power.
2. The OSD function frame will be displayed on the monitor. This screen will disappear in a few seconds automatically when the input of codes using the remote commander stops.
   If it disappears during adjustments, move the cursor of the remote commander supplied as an accessory. The screen will appear again.
3. While watching the monitor screen, adjust CT201 of the OSD (V) board so that the following adjustment standard is satisfied.

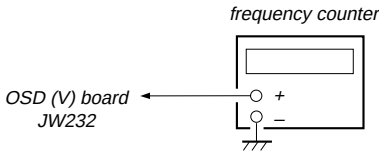


Adjustment standard:
Adjust so that the width B becomes one and a half times of width A.
1.5A = B

NOTE:
Extra margin is provided in this adjustment in consideration of the deviation of the screen according to the type of monitor used. Consequently, the user is able to adjust the position of the screen freely. (For details, refer to "Adjustment of OSD Screen Position" in 1. Servicing note. Refer to page 4.)

OSD COLOR BURST Adjustment

Connection:

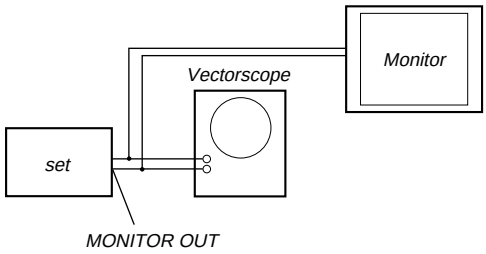


Procedure:
1. Without anything connected to the external input terminal, press the [POWER] button and turn ON the power.
2. Adjust CT202 of the OSD (V) board so that the reading on the frequency counter becomes 3.579545 MHz ± 10 MHz.

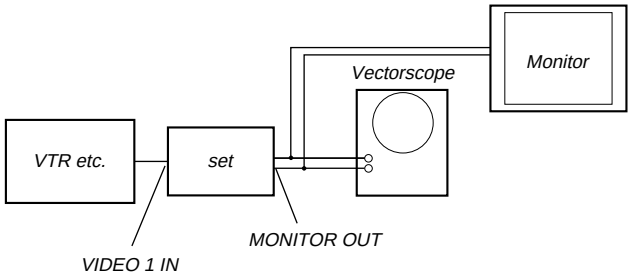
OSD PICTURE Adjustment

Connection:

Connection 1:



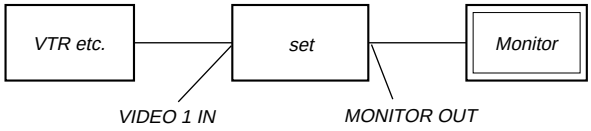
Connection 2:



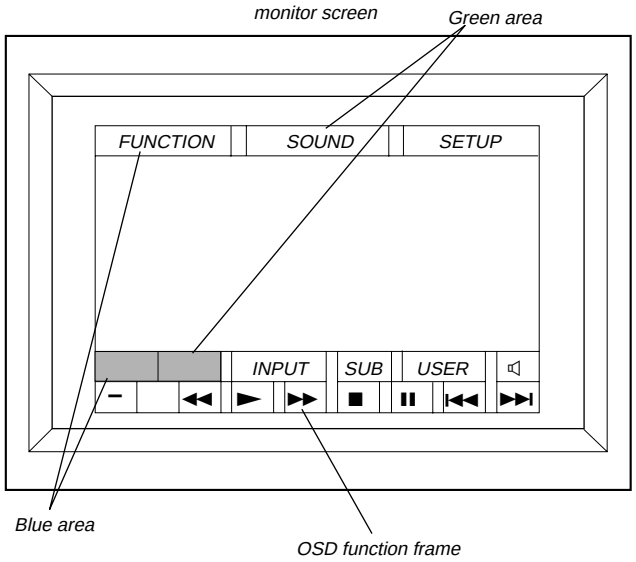
Procedure 1:
1. Without anything connected to the external input terminal (connection 1), press the [POWER] button and turn ON the power.
2. Check that the OSD function frame screen is displayed on the monitor. If no OSD function frame screen is displayed, move the cursor button of the remote commander supplied as an accessory provided to display the screen.
3. Observe the vectorscope, and adjust RV201 of the OSD (V) board so that the light dots converge in the BLUE area.
4. Connect a dynamic picture video device to the external input terminal (VIDEO 1 IN jack) of this unit (Connection 2).
5. Press the [VIDEO FUNCTION] button and set the input source to VIDEO 1.
6. Move the cursor of the remote commander supplied as an accessory provided, and display the OSD function frame.
7. Observe the vectorscope. Check that the light dots in the BLUE range and the light dots adjusted at 3 are coinciding.
8. If they do not coincide, disconnect the external video device, and adjust RV201 of the OSD (V) board again.
9. If the light dots when an external video device is connected and not connected coincide, it indicates the end of the adjustment.

Procedure 2: (When no vectorscope is used)

Connection:



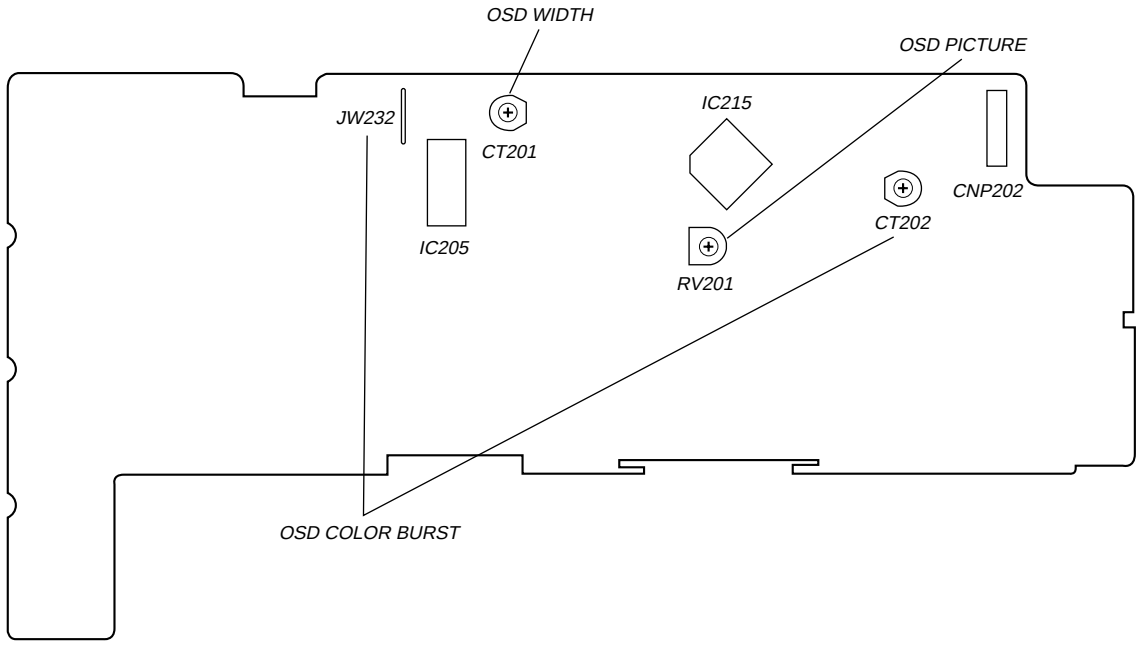
1. Connect a dynamic picture video device to the VIDEO 1 IN jack of the unit.
2. Press the VIDEO FUNCTION button, and set the input source to VIDEO 1.
3. Move the cursor of the remote commander supplied as an accessory provided, and display the OSD function frame.
4. Take note of the blue and green screens at the bottom left of the OSD function frame.
5. Disconnect the video device connected at 1.
6. Adjust RV201 of the OSD (V) board so that the blue and green parts at the bottom left of the OSD function frame to the same color as the images checked at 4.



Note) Perform this adjustment when disconnecting the external video device. If the external video device is connected, there is no meaning in performing this adjustment due to the use of the color burst of the external device instead of the internal sync signal.

Adjustment Location

[OSD (V) BOARD] (Component side)



SECTION 6
DIAGRAMS

6-1. IC PIN FUNCTIONS

• IC103 Mode controller (MB90673PF)

Pin No.	Pin Name	I/O	Function
1	MBUS-V2	–	Not used
2	MBUS-MON	–	Not used
3	MBUS-STATUS-OUT	–	Not used
4	—	–	Not used
5	—	–	Not used
6	—	–	Not used
7	LED STANDBY	O	STANDBY indicator drive signal output
8	LED SURR	O	SURROUND indicator drive signal output
9	LED TONE	O	TONE indicator drive signal output
10	LED INDEX	O	INDEX indicator drive signal output
11	VSS	–	Ground
12	LED CD	O	CD indicator drive signal output
13	LED DAT/MD	O	DAT/MD indicator drive signal output
14	LED TAPE	O	TAPE indicator drive signal output
15	LED TV	O	TV indicator drive signal output
16	LED LD	O	LD indicator drive signal output
17	LED V3	O	VIDEO3 indicator drive signal output
18	LED V2	O	VIDEO2 indicator drive signal output
19	LED V1	O	VIDEO1 indicator drive signal output
20	RX (SIN)	O	Serial data output to OSD controller
21	TX (SOUT)	I	Serial data input from OSD controller
22	BUSY	I/O	Serial clock input/output with OSD controller
23	FL CLEAR	O	FL clear signal output to FL driver “H” : active
24	FL DATA	O	FL data output to FL diver
25	FL CLK	O	FL clock output to FL diver
26	FL LAT	O	FL latch output to FL driver “H” : active
27	SIRCS	I	Remote control signal input
28	VCC (A)	–	+5V power supply (Back-up)
29	+AVR	I	Reference voltage input (+) (+5V)
30	–AVR	I	Reference voltage input (–) (Ground)
31	GND (D)	–	Ground
32	AD KEY IN 1	I	Key input 1
33	AD KEY IN 2	I	Key input 2
34	VSS (D)	–	Ground
35	AD KEY IN 3	I	Key input 3
36	AD KEY IN 4	I	Key input 4
37	AD KEY IN 5	I	Key input 5
38	AD VERSION	I	AD version setting input
39	VOL +	O	Volume motor control signal output
40	VOL –	O	Volume motor control signal output

• Abbreviation
OSD : On Screen Display
FL : Fluorescent indicator tube

Pin No.	Pin Name	I/O	Function
41	MODE0	I	Mode setting pin (Fixed at “H”)
42	MODE1	I	Mode setting pin (Fixed at “H”)
43	MODE2	I	Mode setting pin (Fixed at “L”)
44	STANBY	I	Stanby signal input (Fixed at “H”)
45	STOP	I	STOP signal input “L” : active
46	U-RESET	O	Reset output to system controller “L” : reset
47	U-SREQ	I	Slave data request signal input from system controller
48	U-MREQ	O	Master request signal output to system controller
49	U-DATA	O	Master data output to system controller
50	U-CLOCK	O	Master clock output to system controller
51	(GND)	–	Ground
52	AUBUS IN	–	Not used
53	AUBUS OUT	–	Not used
54	(GND)	–	Ground
55	FUNCTION-B	–	Not used
56	FUNCTION-A	–	Not used
57	UP/DOWN-B	–	Not used
58	UP/DOWN-A	–	Not used
59	LEFT/RIGHT-B	–	Not used
60	LEFT/RIGHT-A	–	Not used
61	—	–	Not used (Ground)
62	RESET	I	Reset signal input “L” : reset
63	VSS (D)	–	Ground
64	XO	O	Clock output (4MHz)
65	XI	I	Clock input (4MHz)
66	VCC (D)	–	+5V power supply (Back-up)
67	LED TUNER	O	TUNER indicator drive signal output
68	LED PHONO	O	PHONO indicator drive signal output
69	LED MUTE	O	MUTE indicator drive signal output
70	LED LEARNING	O	LEARNING indicator drive signal output
71	LED D. PASS	O	DIRECT PASS indicator drive signal output
72	LED INPUT	O	INPUT indicator drive signal output
73	LED VOL	O	Volume indicator drive signal output “H” : active
74	LED BASS B	O	Bass boost indicator drive signal output “H” : active
75	SP-A	O	Speaker select control signal output
76	SP-B	O	Speaker select control signal output
77	PW-SW	I	Power on detect signal input
78	—	–	Not used
79	—	–	Not used
80	MBUS-V1	–	Not used

• **IC205 OSD (MB90095PF-G-186-BND)**

Pin No.	Pin Name	I/O	Function
1	YIN	I	Luminous signal input for superimpose displays
2	CIN	I	Chroma signal input for superimpose displays
3	VIN	I	Composite signal input for superimpose displays
4	AVCC	–	Power supply (+5V) (Analog)
5	FSCO	O	Color burst phase signal output
6	$\overline{\text{VBLK}}$	O	Vertical blanking period output (Not used)
7	VCC	–	Power supply (+5V)
8	EXS	I	External circuit of the clock generator for color burst signals (14.3MHz)
9	XS	O	External circuit of the clock generator for color burst signals (Not used)
10	$\overline{\text{HSYNC}}$	O	H. SYNC/COMPOSIT SYNC singal output
11	$\overline{\text{VSYNC}}$	O	V. SYNC signal output (Not used)
12	$\overline{\text{EXHSYN}}$	I	External H. SYNC signal input
13	$\overline{\text{EXVSYN}}$	I	External V. SYNC signal input
14	GND	–	Ground
15	EXD	I	External circuit of the display dot clock generator
16	XD	O	External circuit of the display dot clock generator
17	$\overline{\text{VOB}}$	O	Character and background period signal output (Not used)
18	VOC 2	O	Chroma signal output (Not used)
19	VOC 1	O	Chroma signal output (Not used)
20	VOC 0	O	Chroma signal output (Not used)
21	$\overline{\text{TEST}}$	I	Test pin (Fixed at “H”)
22	S. CLK	I	Shift clock input for serial transmission
23	S. DATA	I	Serial data input
24	$\overline{\text{CS}}$	I	Chip select input
25	VOUT	O	Composite video signal output
26	COUT	O	Chroma signal output
27	YOUT	O	Luminous signal output
28	AGND	–	Ground (Analog)

• Abbreviation
OSD : On Screen Display

• **IC209 OSD Controller (MB90672PF-G-125-BND)**

Pin No.	Pin Name	I/O	Function
1, 2	AD14, AD15	I/O	Address bus and data bus input/output
3 to 6	A16 to A19	O	Address bus output
7	PCE	O	Chip Enable output to RC controller (For communication using personal computers)
8	PCLK	O	Clock output to RC controller (For communication using personal computers)
9	PDATA OUT	O	Data output to RC controller (For communication using personal computers)
10	PDATA IN	I	Data input from RC controller (For communication using personal computers)
11	GND	–	Ground
12	ALE	O	Address latch enable output
13	RDX	O	Read strobe output to data bus
14	WRLX	O	Write strobe output to data bus
15	WRHX	O	
16	MONITOR	I	Control-S input (Monitor) (Fixed at “L”)
17	VIDEO 2	I	Control-S input (VIDEO 2)
18	STATUS-OUT	O	Control-S status output
19	VIDEO 1	I	Control-S input (VIDEO 1)
20	RX (SIN)	I	Serial data input from mode control (U-ART0 reception)
21	TX (SOT)	O	Serial data output to mode control (U-ART0 transmission)
22	P PRES	O	Reset output (For communication using personal computers)
23	TEST 1	O	Test port (Not used)
24	DATA (OSD)	O	Serial data output to OSD
25	CLK (OSD)	O	Serial clock output to OSD
26	LAT (OSD)	O	Latch output to OSD
27	—	–	Not used
28	AVCC	–	Power supply (+5.6V)
29	AVR +	–	Power supply (+5V)
30	AVR –	–	Ground
31	AVSS	–	
32	VOLA/D	I	Volume control signal input (Not used)
33	PREADY	I	Learning code reception ready signal input “L” : nothing
34	GND	–	Ground
35	PSTATUS	I	Infrared rays transmission data status signal input from to RC controller
36	OK	I	Learning OK signal input from RC controller
37	MEMORY FULL	I	Memory full signal input from RC controller
38	BACK UP NG	I	Back up NG signal input from RC controller
39	NG	I	Learning NG signal input from RC controller
40	P-IR	I	Input to the integral calculus circuit of the remote control reception signal

• Abbreviation
RC: Remote Commander
OSD: On Screen Display

Pin No.	Pin Name	I/O	Function
41	MODE 0	I	Mode setting (Fixed at “H”)
42	MODE 1	I	Mode setting (Fixed at “L”)
43	MODE 2	I	Mode setting (Fixed at “L”)
44	HSTX	I	Hardware standby (Fixed at “H”)
45	STOP	I	Request input of reset interrupt
46	IR-IN (A6)	I	IR sensor remote control input (Not used)
47	—	–	Not used
48	—	–	Not used
49	AUBUS IN	I	S-LINK control A1 signal input
50	V. SIGNAL	I	H-sync switching signal input
51	SIRCS-IN	I	SIRCS signal input
52	VD	I	PAL: 60 [flame/s]/ NTSC: 50 [flame/s] signal detect VD input
53	AUBUS OUT	O	S-LINK control A1 signal output
54	F. SW	O	To control output into monitor (Not used)
55	VIDEO-MUT	O	Image mute output (Not used)
56	—	–	Not used
57	—	–	Not used
58	—	–	Not used
59	—	–	Not used
60	IR ON/OFF	O	IR remote control ON/OFF output “H” off
61	BUSY	I/O	Input/output to communicate with the mode control
62	RESET	I	Reset signal input
63	GND	–	Ground
64	XO	O	Clock (4 MHz)
65	XI	I	Clock (4 MHz)
66	VCC	–	Power supply (+5.6V)
67 to 100	AD00 to AD13	I/O	Address bus and data bus input/output

• **IC215 RC Controller (LC86F5864A-5F53)**

Pin No.	Pin Name	I/O	Function
1	P70/INT0	I	Chip enable input from OSD controller
2	P71/INT1	I	Chip enable input (For on-board) (Not used)
3	P72/INT 2/TOIN	I	Not used (Fixed at “L”)
4	P73/INT 3/TOIN	I	SIRCS signal input
5	P30	I	Power supply normality signal input
6	P31	O	Infrared rays transmission data status signal output to OSD controller “L” nothing
7	P32	O	Learning NG signal output to OSD controller
8	P33	O	Back-up NG signal output to OSD controller
9	P34	O	Memory-full signal output to OSD controller
10	P35	O	Learning OK signal output to OSD controller
11	P36	O	Data reception ready signal output to OSD controller
12	P37	O	Not used (Fixed at “L”)
13	P40	O	Not used (Fixed at “L”)
14	P41	O	Not used (Fixed at “L”)
15	P42	O	Not used (Fixed at “L”)
16	P43	O	Not used (Fixed at “L”)
17	P44	O	Not used (Fixed at “L”)
18	P45	O	Not used (Fixed at “L”)
19	P46	O	Not used (Fixed at “L”)
20	P47	O	Not used (Fixed at “L”)
21	P50/SDA	O	Not used (Fixed at “L”)
22	P51/SCL	O	Not used (Fixed at “L”)
23	VSS2	–	Ground
24	VDD2	–	+5V power supply
25	P20/SDA	O	Not used (Fixed at “L”)
26	P21/SCL	O	Not used (Fixed at “L”)
27	P22/TXD	O	Not used (Fixed at “L”)
28	P23/PXD	O	Not used (Fixed at “L”)
29	P24/UCLK	O	Not used (Fixed at “L”)
30	P25	O	Not used (Fixed at “L”)
31	P26	O	Not used (Fixed at “L”)
32	P27	O	Not used (Fixed at “L”)
33	P00	O	Not used (Fixed at “L”)
34	P01	O	Not used (Fixed at “L”)
35	P02	O	Not used (Fixed at “L”)
36	P03	O	Not used (Fixed at “L”)
37	P04	O	Not used (Fixed at “L”)
38	P05	O	Not used (Fixed at “L”)
39	P06	O	Not used (Fixed at “L”)
40	P07	O	Not used (Fixed at “L”)

• Abbreviation
RC: Remote Commander
OSD: On Screen Display

Pin No.	Pin Name	I/O	Function
41	P10/SOO	O	Serial data output to OSD controller
42	P11/SI0/SB0	I	Serial data input to OSD controller
43	P12/SCKO	I	Serial clock input from OSD controller
44	P13/SO1	–	Serial data output (For on-board) (Not used)
45	P14/SI1	I	Serial data input (For on-board) (Not used)
46	P15/SCK1	I	Serial clock input (For on-board) (Not used)
47	P16/BUZ	O	Not used (Fixed at “L”)
48	P17/PWM	O	SIRCS signal output (Carrier = PWM output)
49	TEST1	O	Not used
50	RES	I	Reset input “L” reset
51	XT1/P74	–	Not used (Fixed at “H”)
52	XT2	–	Not used
53	VSS1	–	Ground
54	CF1	I	Clock input (6MHz)
55	CF2	O	Clock output (6MHz)
56	VDD1	–	+5V power supply
57	P80/AN0	I	Not used (Fixed at “L”)
58	P81/AN1	I	Not used (Fixed at “L”)
59	P82/AN2	I	Not used (Fixed at “L”)
60	P83/AN3	I	Not used (Fixed at “L”)
61	P84/AN4	I	Not used (Fixed at “L”)
62	P85/AN5	I	Not used (Fixed at “L”)
63	P86/AN6	I	Not used (Fixed at “L”)
64	P87/AN7	I	Not used (Fixed at “L”)

• Abbreviation
OSD: On Screen Display

• IC3104 A/D Converter (CXD8681M-TP)

Pin No.	Pin Name	I/O	Function
1	VRL+	O	L-ch reference voltage (+) output (+3.75V)
2	VRL–	O	L-ch reference voltage (–) output (+1.25V)
3	VCML	O	L-ch common voltage (+) output (+2.5V)
4	AINL+	I	L-ch analog voltage (+) input
5	AINL–	I	L-ch analog voltage (–) input
6	ZCAL	I	Zero calibraton input (Fixed at “H”)
7	VD	–	+5.5V power supply (Digital)
8	DGND	–	Ground (Digital)
9	CAL	O	Calibration status signal output
10	$\overline{\text{RST}}$	I	Reset input “L” : reset
11	SMODE2	I	Serial interface mode selection input (Fixed at “L”)
12	SMODE1	I	Serial interface mode selection input (Fixed at “L”)
13	LRCK	I/O	L/R channel selection clock input/output
14	SCLK	I/O	Serial data clock input/output
15	SDATA	O	Serial data output
16	FSYNC	I/O	Frame sync clock input/output (Fixed at “H”)
17	MCLK	I	Master clock input (12.288MHz)
18	CMODE	I	Master clock selection input “L” : MCLK : 256Fs, “H” : MCLK : 384Fs (Fixed at “L”)
19	SEL24/20	I	Output data range selection input “L” : 20 bit, “H” ; 24 bit (Fixed at “H”)
20	TEST	I	Test pin (Fixed at “L”)
21	BGND	–	Ground
22	AGND	–	Ground (Analog)
23	VA	–	+5V power supply (Analog)
24	AINR–	I	R-ch analog (–) input
25	AINR+	I	R-ch analog (+) input
26	VCMR	O	R-ch common voltage output (+2.5V)
27	VRR–	O	R-ch reference voltage (–) output (+1.25V)
28	VRR+	O	R-ch reference voltage (+) output (+3.75V)

• IC3308 DOLBY AC-3 demodulator (SN-PM4007A)

Pin No.	Pin Name	I/O	Function
1	GND	–	Ground
2	VDD	–	+5V power supply
3	RESET	I	System reset input “L” : reset
4	OSCON	I	Oscillation control signal input “H” : ON (Fixed at “H”)
5	DATA	I	Test pin (Fixed at “L”)
6	MCK	I	Test pin (Fixed at “L”)
7	MLTB	I	Test pin (Fixed at “L”)
8	IDST	O	Test pin (Not used)
9	IDCK	O	Test pin (Not used)
10	IDO	O	Test pin (Not used)
11	TM0	I	Test pin (Fixed at “L”)
12	ECCK	O	Test pin (Not used)
13	DEN	O	Test pin (Not used)
14	DRY	O	Test pin (Not used)
15	MSYC	O	Test pin (Not used)
16	TM1	I	Test pin (Fixed at “L”)
17	A0	O	Address data output to SRAM
18	A1	O	Address data output to SRAM
19	A2	O	Address data output to SRAM
20	A3	O	Address data output to SRAM
21	A4	O	Address data output to SRAM
22	A5	O	Address data output to SRAM
23	TM2	I	Test pin (Fixed at “L”)
24	TM3	I	Test pin (Fixed at “L”)
25	XOUT	O	Test pin (Not used)
26	XIN	I	Test pin (Fixed at “L”)
27	NEXT	I	Test pin (Fixed at “L”)
28	GND	–	Ground
29	VDD	–	+5V power supply
30	A6	O	Address data output to SRAM
31	A7	O	Address data output to SRAM
32	GND	–	Ground
33	VDD	–	+5V power supply
34	A12	O	Address data output to SRAM
35	A14	O	Address data output to SRAM
36	WE	O	Write enable signal output to SRAM “L” : active
37	A13	O	Address data output to SRAM
38	A8	O	Address data output to SRAM
39	A9	O	Address data output to SRAM
40	GND	–	Ground
41	A11	O	Address data output to SRAM
42	OE	O	Output enable output to SRAM
43	A10	O	Address data output to SRAM
44	D7	I/O	Data bus input/output with SRAM
45	D6	I/O	Data bus input/output with SRAM
46	D5	I/O	Data bus input/output with SRAM
47	D4	I/O	Data bus input/output with SRAM
48	D3	I/O	Data bus input/output with SRAM
49	D2	I/O	Data bus input/output with SRAM
50	D1	I/O	Data bus input/output with SRAM

Pin No.	Pin Name	I/O	Function
51	D0	I/O	Data bus input/output with SRAM
52	VDD	–	+5V power supply
53	GND	–	Ground
54	TI1	I	Test pin (Fixed at “H”)
55	VIN	I	VCXO input (18.432MHz)
56	VOUT	O	VCXO output (18.432MHz)
57	TI2	I	Test pin (Fixed at “L”)
58	TI3	I	Test pin (Fixed at “L”)
59	TLD8	I	Test pin (Fixed at “L”)
60	TCK	I	Test pin (Fixed at “L”)
61	TRP	O	Test pin (Not used)
62	TD0	O	Test pin (Not used)
63	PD0	O	Output of internal phase comparator (3 state)
64	TI4	I	Test pin (Fixed at “L”)
65	PDDI5	I	PDO output control input “L” : output ON
66	MUTO	O	Mute signal output “H” : mute
67	TI5	I	Test pin (Fixed at “L”)
68	VLDY	O	Test pin (Not used)
69	DASYO	O	Test pin (Not used)
70	DAOUT	O	Digital-out signal output (Serial data stream output)
71	DAIN	I	Dgital external input Through out to DAOUT when DASEL is “H” (Not used)
72	DAIN	I	Digital-out selection input (Fixed at “L”)
73	TI8	I	Test pin (Fixed at “L”)
74	C2F1	O	C2 error correction state display Outputs if corrected properly (Not used)
75	C2F0	O	C2 error correction state display Outputs number of errors at C2 (Not used)
76	C1F1	O	C2 error correction state display Outputs whether error is present at C1 (Not used)
77	C1F0	O	C2 error correction state display Outputs number of errors at C1 (Not used)
78	MUTI	I	Muting input “H” mute
79	VDD	–	+5V power supply
80	GND	–	Ground
81	AVDD	–	+5V power supply (Analog)
82	CPIN	I	Comparator input (+) (QPSK input)
83	CMIN	I	Comparator input (–)
84	AGND	–	Ground (Analog)
85	TM4	I	Test pin (Fixed at “L”)
86	VDD	–	+5V power supply
87	DIN	I	Test pin (Fixed at “L”)
88	DOUT	O	Comparate output
89	DOUTB	O	Comparate inverted output
90	C9M	O	9.216MHz output (Not used)
91	GND	–	Ground
92	WINGT	O	Test pin (Not used)
93	SYST0	O	Test pin (Not used)
94	SYST1	O	Test pin (Not used)
95	ADST0	O	Test pin (Not used)
96	ADST1	O	Test pin (Not used)
97	TM5	I	Test pin (Fixed at “L”)
98	BUNRI	I	Test pin (Fixed at “L”)
99	AGND	–	Ground (Analog)
100	AVDD	–	+5V power supply (Analog)

• IC3311 Digital Audio Interface Receiver (CXD8521M)

Pin No.	Pin Name	I/O	Function
1	DIN1	I	Data input with built-in amplifier (Responding to the coaxial optical module)
2	DIN2	I	Data input (Responding to the optical module)
3	E/DOUT	O	Emphasis, input bi-phase, validity flag output
4	VDD	–	Power supply (+5V)
5	R	I	VCO gain control input (Fixed at “H”)
6	VIN	I	VCO freerunning frequency setting input
7	VCO	O	LPF setting of PLL (Fixed at “L”)
8	GND	–	Ground
9	CKSEL	I	System clock select input (384fs, 512fs) (Connected to the power supply.)
10	XMODE	I	Reset input
11	AVOCK	I	Clock input for preventing PLL lock failure
12	TST1	I	Test input (Normally “L”)
13	TST2	I	
14	SCLK	I	Microcomputer IF clock input
15	XLAT	I	Microcomputer IF latch/chip enable input
16	SWDT	I	Microcomputer IF write data input
17	SRDT	O	Microcomputer IF read data output
18	DQSY	O	Microcomputer IF Sub-Q sync and ID sync output (Not used)
19	CKOUT	O	VCO clock output (Freerunning, 384fs, 512fs) (Not used)
20	FS128	O	128fs clock output (Not used)
21	BCK	O	Bit clock output
22	LRCK	O	L/R clock output
23	DATAO	O	Audio data output
24	EROR	O	PLL lock error mute output

• Abbreviation
VCO: Voltage Controlled Oscillator
PLL: Phase Locked Loop

• IC3410 DOLBY AC-3 decoder (DSP56009FJ88)

Pin No.	Pin Name	I/O	Function
1	AGND	–	Address buffer ground
2	MCS0	O	Chip select 0 output to S-RAM (Not used)
3	MA15	O	Address data output to S-RAM (Not used)
4	MA14	O	
5	MA13	O	
6	AVCC	–	Address bus buffer power supply (+5V)
7	MA12	O	Address data output to S-RAM(Not used)
8	AGND	–	Ground for address bus buffer
9	QVCC	–	Power supply for internal logic (+5V)
10	QGND	–	Ground for internal logic
11	MA11	O	Address data output to S-RAM (Not used)
12	MA10	O	
13	MA9	O	
14	MA8	O	
15	AGND	–	Ground for address bus buffer
16	MA7	O	Address data output to S-RAM (Not used)
17	AVCC	–	Power supply for address bus buffer (+5V)
18	MA6	O	Address data output to S-RAM (Not used)
19	MA5	O	
20	MA4	O	
21	AGND	–	Ground for address bus buffer
22	MA3	O	Address data output to S-RAM (Not used)
23	MA2	O	
24	MA1	O	
25	MA0	O	
26	SCK/SCL	I	SPI serial clock signal input from system controller
27	EXTAL	I	External frequency input (3 MHz)
28	QVCC	–	Power supply for internal logic (+5V)
29	QGND	–	Ground for internal logic
30	PINIT	I	PLL initialize input (Fixed at “L”)
31	PGND	–	Ground for PLL
32	PCAP	I	PLL filter input (Connected to 0.01 µF capacitor)
33	PVCC	–	Power supply for PLL (+5V)
34	SGND	–	Ground for serial port
35	MISO/SDA	I	Master data signal input from system controller
36	RESET	I	Reset signal input from system controller
37	MODA/IRQA	I	Mode select A (Fixed at “H”)
38	MODB/IRQB	I	Mode select B (Fixed at “L”)
39	MODC/NMI	I	Mode select C (Fixed at “H”)
40	SVCC	–	Power supply for serial port (+5V)

• Abbreviation
PLL: Phase Locked Loop

Pin No.	Pin Name	I/O	Function
41	MOSI/HA0	O	Master data signal output to system controller
42	SS/HA2	I	SPI slave select signal input from system controller
43	HREQ	I	Host request signal input from system controller
44	SGND	–	Ground for serial port
45	SDO2	O	Audio serial data 2 signal output (Not used)
46	SDO1	O	Audio serial data 1 signal output
47	SDO0	O	Audio serial data 0 signal output
48	SVCC	–	Power supply for serial port (+5V)
49	SCKT	O	Serial clock transmission
50	WST	O	Word select transmission
51	SCKR	I	Serial clock reception
52	QGND	–	Ground for internal logic
53	QVCC	–	Power supply for internal logic (+5V)
54	SGND	–	Ground for serial port
55	WSR	I	Word select reception
56	SDI1	I	Audio serial data 1 signal input
57	SDI0	I	Audio serial data 0 signal input
58	DSO	O	Debug serial signal output (Not used)
59	DSI/OS0	I	Debug serial signal input (Not used)
60	DSCK/OS1	I	Debug serial clock signal input (Not used)
61	DR	I	Debug request input (Fixed at “H”)
62	MD7	I/O	Data input/output with S-RAM (Not used)
63	MD6	I/O	
64	MD5	I/O	
65	MD4	I/O	
66	DGND	–	Ground for data bus buffer
67	MD3	I/O	Data input/output with S-RAM (Not used)
68	MD2	I/O	
69	MD1	I/O	
70	DVCC	–	Power supply for data bus buffer (+5V)
71	MD0	I/O	Data input/output with S-RAM (Not used)
72	DGND	–	Ground for data bus buffer
73	GPIO3	I/O	General DSP input/output (Not used)
74	GPIO2	I/O	
75	GPIO1	I/O	
76	GPIO0	I/O	
77	MRD	O	Write strobe signal output to S-RAM (Not used)
78	MWR	O	Read strobe signal output to S-RAM (Not used)
79	MA15/MCS1	O	Low address strobe signal output to S-RAM (Not used)
80	MA16/MCS2/MCAS	O	Column address strobe signal output to S-RAM (Not used)

• IC3412 DOLBY Surround Digital Signal Processor (SSP424023FJ88)

Pin No.	Pin Name	I/O	Function
1	AGND	–	Address buffer ground
2	MCS0	O	Chip select 0 output to S-RAM (Not used)
3	MA15	O	Address data output to S-RAM
4	MA14	O	
5	MA13	O	
6	AVCC	–	Address bus buffer power supply (+5V)
7	MA12	O	Address data output to S-RAM
8	AGND	–	Ground for address bus buffer
9	QVCC	–	Power supply for internal logic (+5V)
10	QGND	–	Ground for internal logic
11	MA11	O	Address data output to S-RAM
12	MA10	O	
13	MA9	O	
14	MA8	O	
15	AGND	–	Ground for address bus buffer
16	MA7	O	Address data output to S-RAM
17	AVCC	–	Power supply for address bus buffer (+5V)
18	MA6	O	Address data output to S-RAM
19	MA5	O	
20	MA4	O	
21	AGND	–	Ground for address bus buffer
22	MA3	O	Address data output to S-RAM
23	MA2	O	
24	MA1	O	
25	MA0	O	
26	SCK/SCL	I	SPI serial clock signal input from system controller
27	EXTAL	I	External frequency input (3 MHz)
28	QVCC	–	Power supply for internal logic (+5V)
29	QGND	–	Ground for internal logic
30	PINIT	I	PLL initialize input (Fixed at “L”)
31	PGND	–	Ground for PLL
32	PCAP	I	PLL filter input (Connected to 0.01 µF capacitor)
33	PVCC	–	Power supply for PLL (+5V)
34	SGND	–	Ground for serial port
35	MISO/SDA	I	Master data signal input from system controller
36	RESET	I	Reset signal input from system controller
37	MODA/IRQA	I	Mode select A (Fixed at “H”)
38	MODB/IRQB	I	Mode select B (Fixed at “L”)
39	MODC/NMI	I	Mode select C (Fixed at “H”)
40	SVCC	–	Power supply for serial port (+5V)

• Abbreviation
PLL: Phase Locked Loop

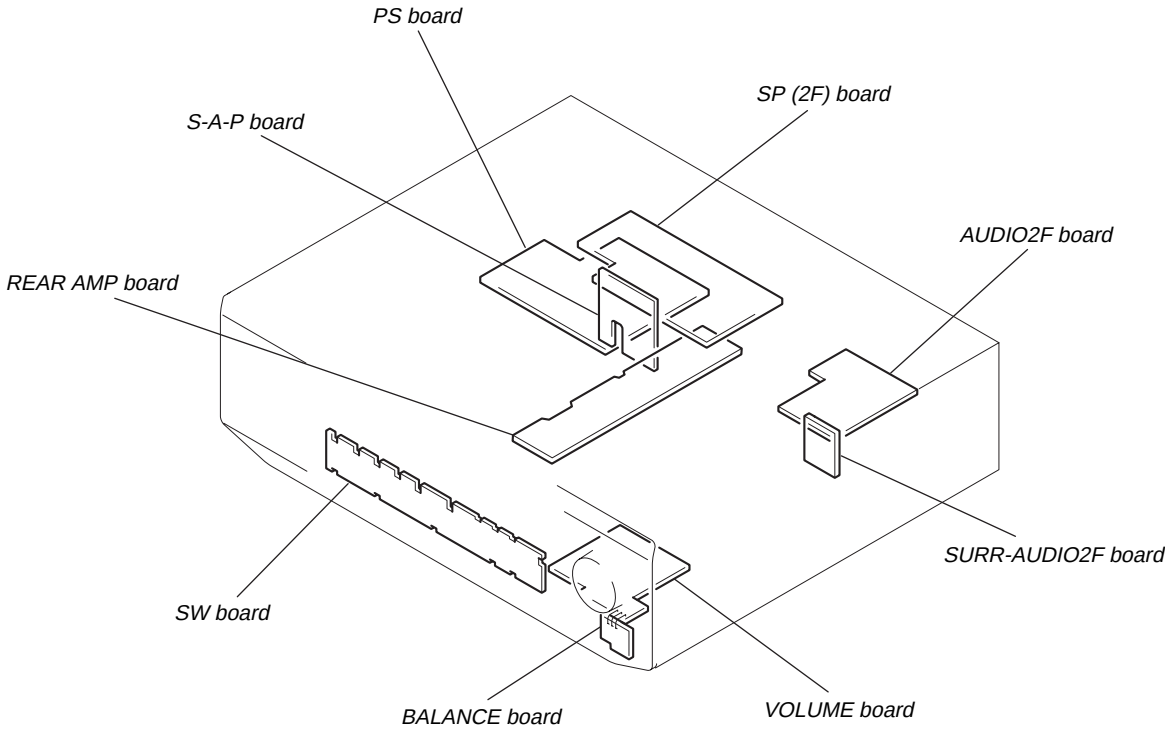
Pin No.	Pin Name	I/O	Function
41	MOSI/HA0	O	Master data signal output to system controller
42	SS/HA2	I	SPI slave select signal input from system controller
43	HREQ	I	Host request signal input from system controller
44	SGND	–	Ground for serial port
45	SDO2	O	Audio serial data 2 signal output
46	SDO1	O	Audio serial data 1 signal output
47	SDO0	O	Audio serial data 0 signal output
48	SVCC	–	Power supply for serial port (+5V)
49	SCKT	O	Serial clock transmission
50	WST	O	Word select transmission
51	SCKR	I	Serial clock reception
52	QGND	–	Ground for internal logic
53	QVCC	–	Power supply for internal logic (+5V)
54	SGND	–	Ground for serial port
55	WSR	I	Word select reception
56	SDI1	I	Audio serial data 1 signal input
57	SDI0	I	Audio serial data 0 signal input
58	DSO	O	Debug serial signal output (Not used)
59	DSI/OS0	I	Debug serial signal input (Not used)
60	DSCK/OS1	I	Debug serial clock signal input (Not used)
61	DR	I	Debug request input (Fixed at “H”)
62	MD7	I/O	Data input/output with S-RAM
63	MD6	I/O	
64	MD5	I/O	
65	MD4	I/O	
66	DGND	–	Ground for data bus buffer
67	MD3	I/O	Data input/output with S-RAM
68	MD2	I/O	
69	MD1	I/O	
70	DVCC	–	Power supply for data bus buffer (+5V)
71	MD0	I/O	Data input/output with S-RAM
72	DGND	–	Ground for data bus buffer
73	GPIO3	I/O	General DSP input/output (Not used)
74	GPIO2	I/O	
75	GPIO1	I/O	
76	GPIO0	O	General DSP output to system controller
77	MRD	O	Write strobe signal output to S-RAM
78	MWR	O	Read strobe signal output to S-RAM
79	MA15/MCS1	O	Low address strobe signal output to S-RAM (Not used)
80	MA16/MCS2/MCAS	O	Column address strobe signal output to S-RAM

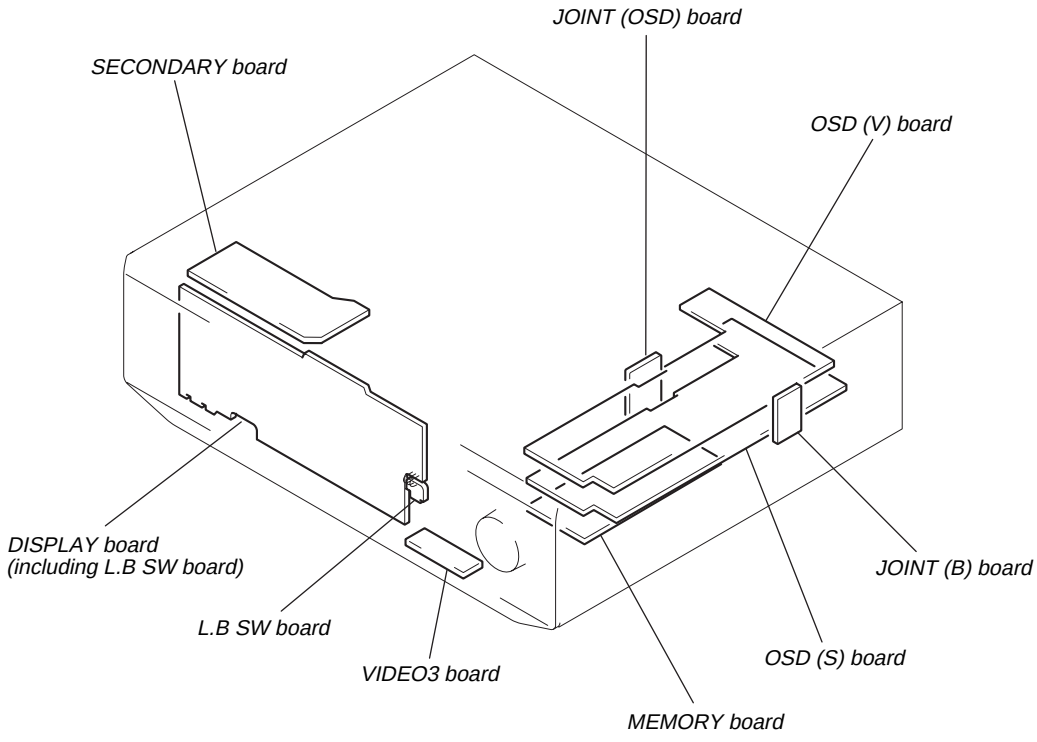
• IC3413 System Controller (MB90641APF-G-101-BND)

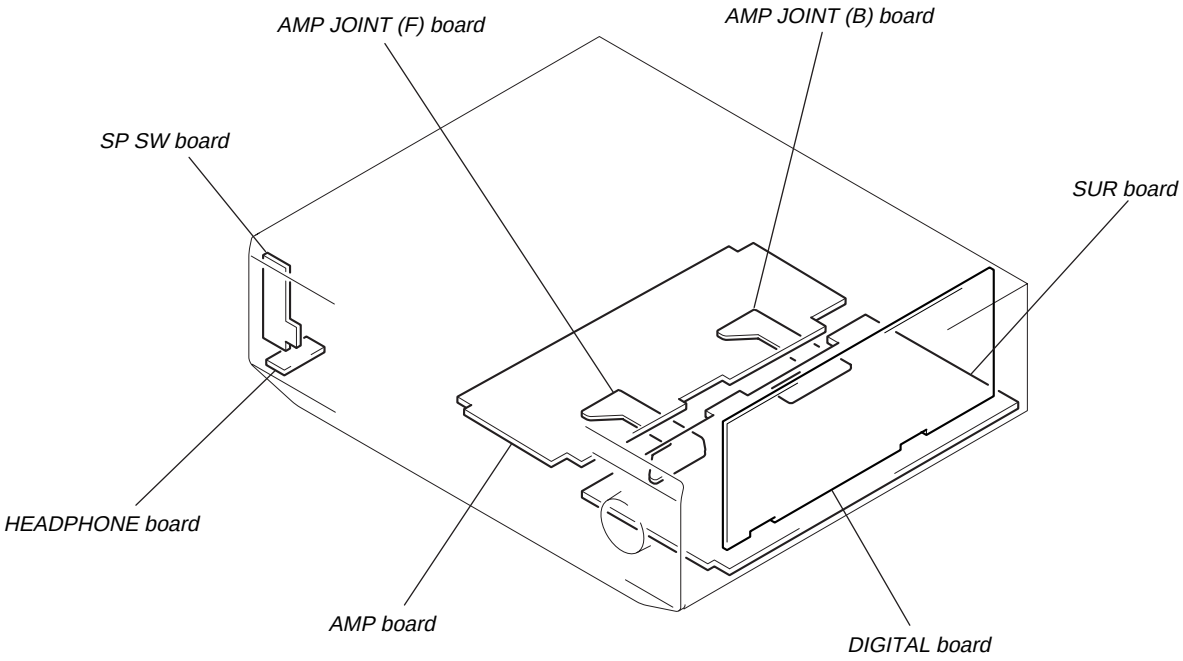
Pin No.	Pin Name	I/O	Function
1	RF ERR	I	Error input from DOLBY AC-3 demodulator “H” : error
2	RF RESET	O	Reset output to DOLBY AC-3 demodulator “L” : reset
3	STOP	I	Power supply failure detection input
4	RDATA	I	Data read signal input from CXD8521M
5	WDATA	O	Data write signal output to CXD8521M
6	DIRLAT	O	Latch output to CXD8521M
7	DIRCLK	O	Clock output to CXD8521M
8	DIRERR	I	Error signal input from CXD8521M “H” : error
9	ANG/DIG	O	Analog/Digital switching, Digital at “H”
10	A/DINT	O	Initialize output to A/D converter
11	VSS	–	Ground
12	HREQ	O	Host request signal output to DSP56009FJ88
13	SS	O	SPI slave select signal output to DSP56009FJ88
14	MOSI	O	Master data signal output to DSP56009FJ88
15	RESET	O	Reset signal output to DSP56009FJ88 “L” : reset
16	MISO	I	Master data signal input from DSP56009FJ88
17	CLOCK	O	SPI serial clock output to DSP56009FJ88
18	HREQ	O	Host request signal output to SSP424023FJ88
19	SS	O	SPI slave select signal output to SSP424023FJ88
20	MOSI	O	Master data signal output to SSP424023FJ88
21	RESET	O	Reset signal output to SSP424023FJ88 “L” : reset
22	MISO	I	Master data signal input from SSP424023FJ88
23	VCC	–	+5V power supply
24	CLOCK	O	SPI serial clock output to SSP424023FJ88
25	D/AINT	O	Initialize output to CXD8505BQ “L” : initialize
26	D/ALAT	O	Latch output to CXD8505BQ
27	C	–	Connect to Capacitor
28	D/ACLK	O	Clock output to CXD8505BQ
29	D/ADATA	O	Data output to CXD8505BQ
30	—	O	Initialize output “L” : initialize (Not used)
31	—	–	Not used
32	—	–	Not used
33	—	–	Not used
34	VCC	–	+5V power supply
35	VCC	–	+5V power supply
36	VSS	–	Ground
37	VSS	–	Ground
38	LOW FRQ LED	I	Low frequency LED signal input from SSP424023FJ88
39	GAIN FRONT 8DB	O	Front speaker 8dB gain signal output
40	GAIN FRONT 4DB	O	Front speaker 4dB gain signal output
41	GAIN FRONT 2DB	O	Front speaker 2dB gain signal output
42	VSS	–	Ground
43	—	–	Not used
44	—	–	Not used
45	—	–	Not used
46	—	–	Not used
47	—	–	Not used
48	STOP	I	Power supply failure detection input
49	MD0	I	Mode select input (Fixed at “H”)
50	MD1	I	Mode select input (Fixed at “H”)

Pin No.	Pin Name	I/O	Function
51	MD2	I	Mode select input (Fixed at “L”)
52	STANDBY	I	Power on detect input (Fixed at “H”)
53	—	–	Not used
54	DISPMR	I	Master request signal input from mode controller
55	DISPDATA	I	Master data input from mode controller
56	SLVDATA/REQ	O	Slave data request signal output to mode controller
57	DISPCLK	I	Master clock input from mode controller
58	LAT	O	Latch output to ATT (Rear, Center, woofer)
59	DATA	O	Signal data output to ATT (Rear, Center, woofer)
60	CLK	O	Signal clock output to ATT (Rear, Center, woofer)
61	DATAIN	O	Serial data output to tuner
62	AUTSTOP	O	Auto stop signal output to tuner
63	STEREO	O	Stereo ID output to tuner
64	—	–	Not used
65	—	–	Not used
66	HIFI/ES	–	Not used (Fixed at “H”)
67	PROTEC	O	Protector signal output
68	VIDEO-A	O	Video-input switching signal output
69	VIDEO-B	O	Video-input switching signal output
70	VIDEO-E	O	Video control E signal output
71	VIDEO-INH	O	Video-out inhibit signal output “L” : inhibit
72	FUNMUTE	O	Function muting signal output “H” : mute
73	TUNERMUTE	O	Tuner muting signal output “H” : mute
74	SURR-MUTE	O	Surround muting signal output “H” : mute
75	AC-MUTE	O	Mute signal output to Front/Rear power amp
76	RM-MUTE	O	–20dB muting signal output “H” : mute
77	RESET	I	Reset signal input “L” : reset
78	RY-FRONT/A	O	Not used
79	RY-FRONT/B	O	Not used
80	RY FRONT	O	Front speaker relay switching output “H” : ON
81	VSS	–	Ground
82	XIN	I	System clock input (4MHz)
83	XOUT	O	System clock output (4MHz)
84	VCC	–	+5V power supply
85	RY-PREAMP	–	Not used
86	RY-CENTER	O	Center speaker/Super woofer relay switching output “H” : ON
87	RY-REAR	O	Rear speaker relay switching output “H” : ON
88	RY-HP	O	Headphones relay switching output “H” : ON
89	RY-4/8	O	Not used
90	RY-POWER	O	Power relay switching output “H” : ON
91	—	–	Not used
92	—	–	Not used
93	—	–	Not used
94	RY-DIRECT-PASS	–	Direct pass relay switching output “H” : ON
95	—	–	Not used
96	—	–	Not used
97	—	–	Not used
98	DIG-IN2	O	Digital-input selection signal output
99	DIG-IN1	O	Digital-input selection signal output
100	DIG-IN0	O	Digital-input selection signal output

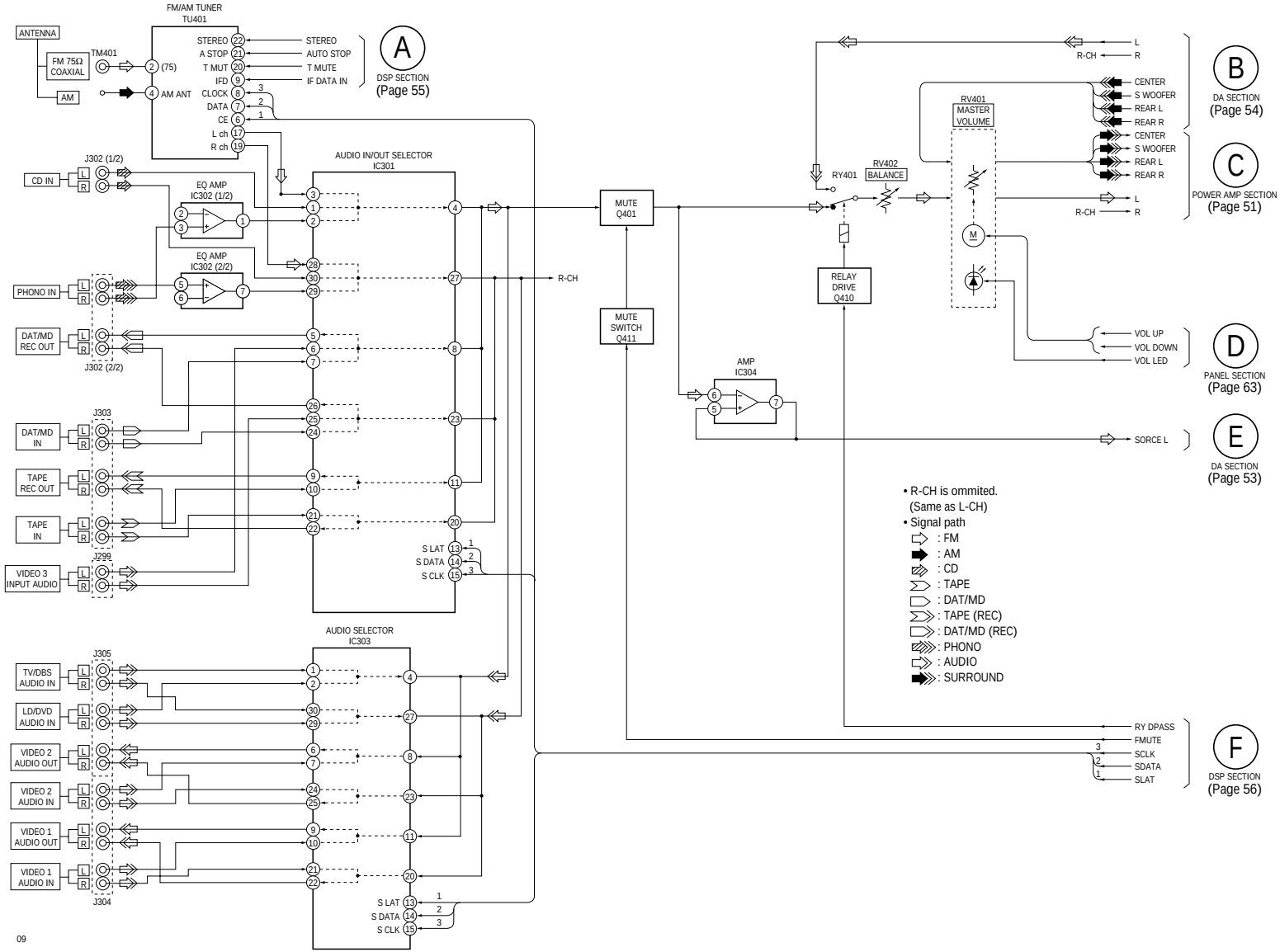
6-2. CIRCUIT BOARDS LOCATION



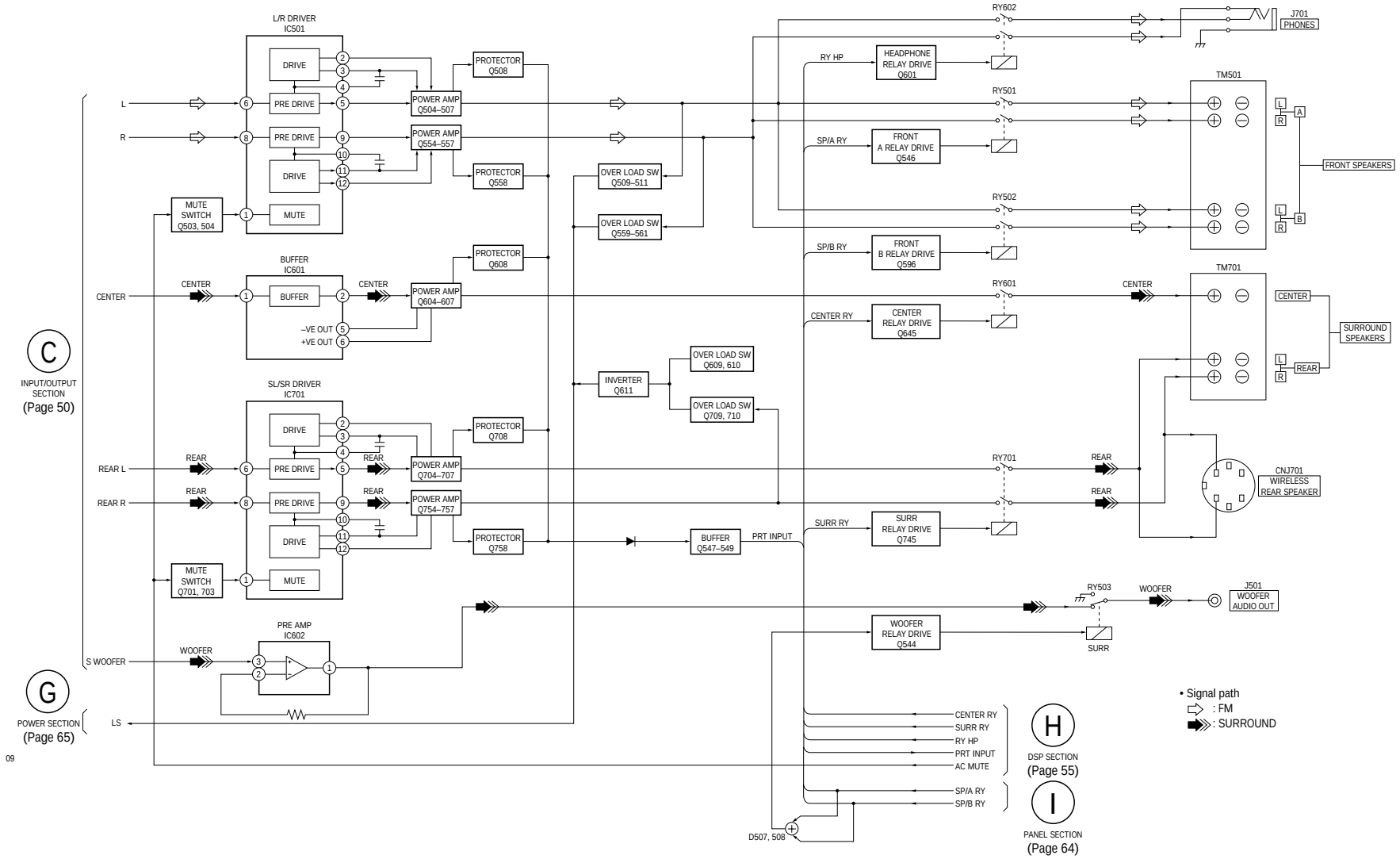



AMP JOINT (F) board
AMP JOINT (B) board
SP SW board
SUR board
HEADPHONE board
AMP board
DIGITAL board

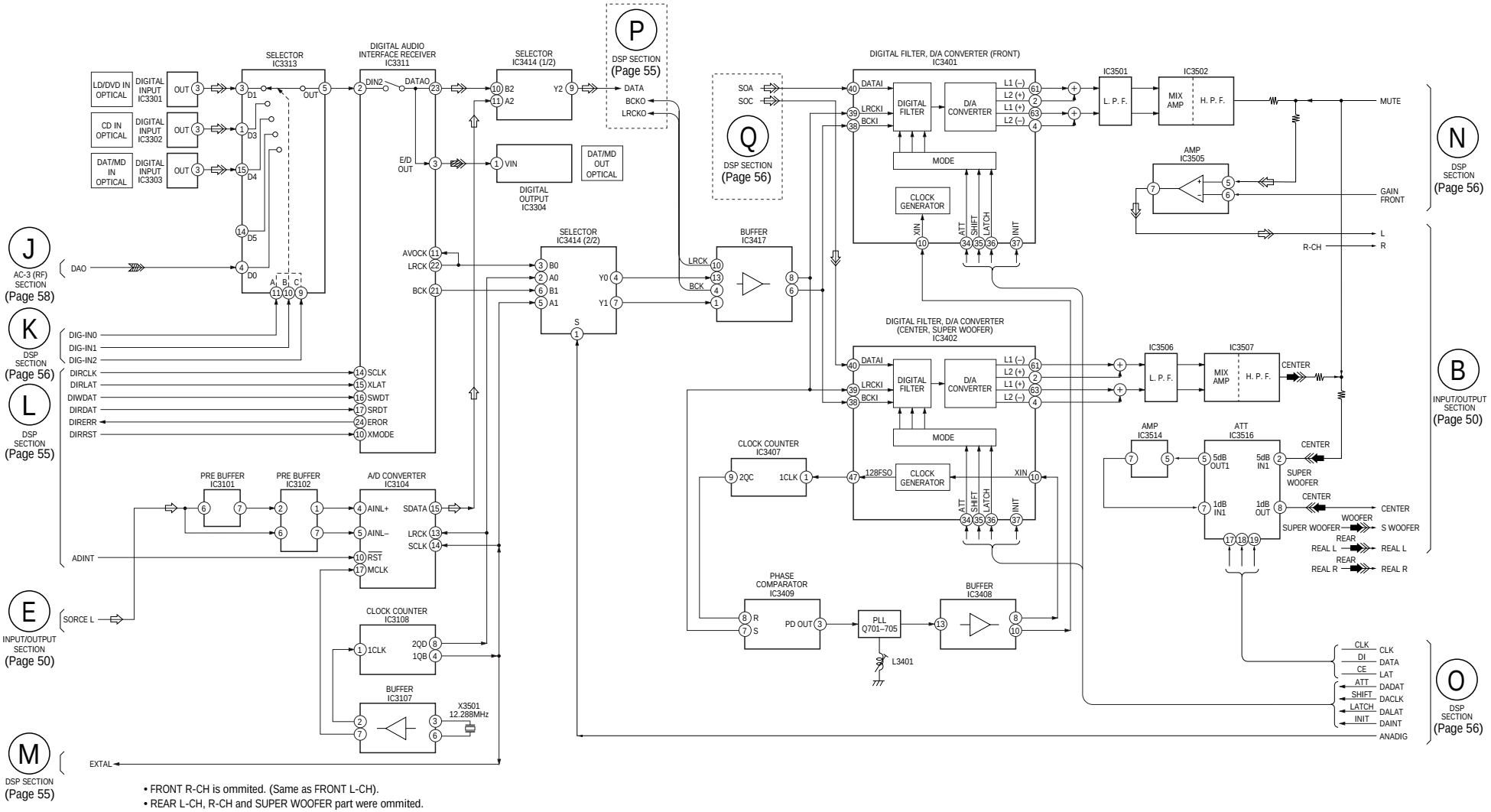
6-3. BLOCK DIAGRAMS
— INPUT/OUTPUT SECTION —



— POWER AMP SECTION —



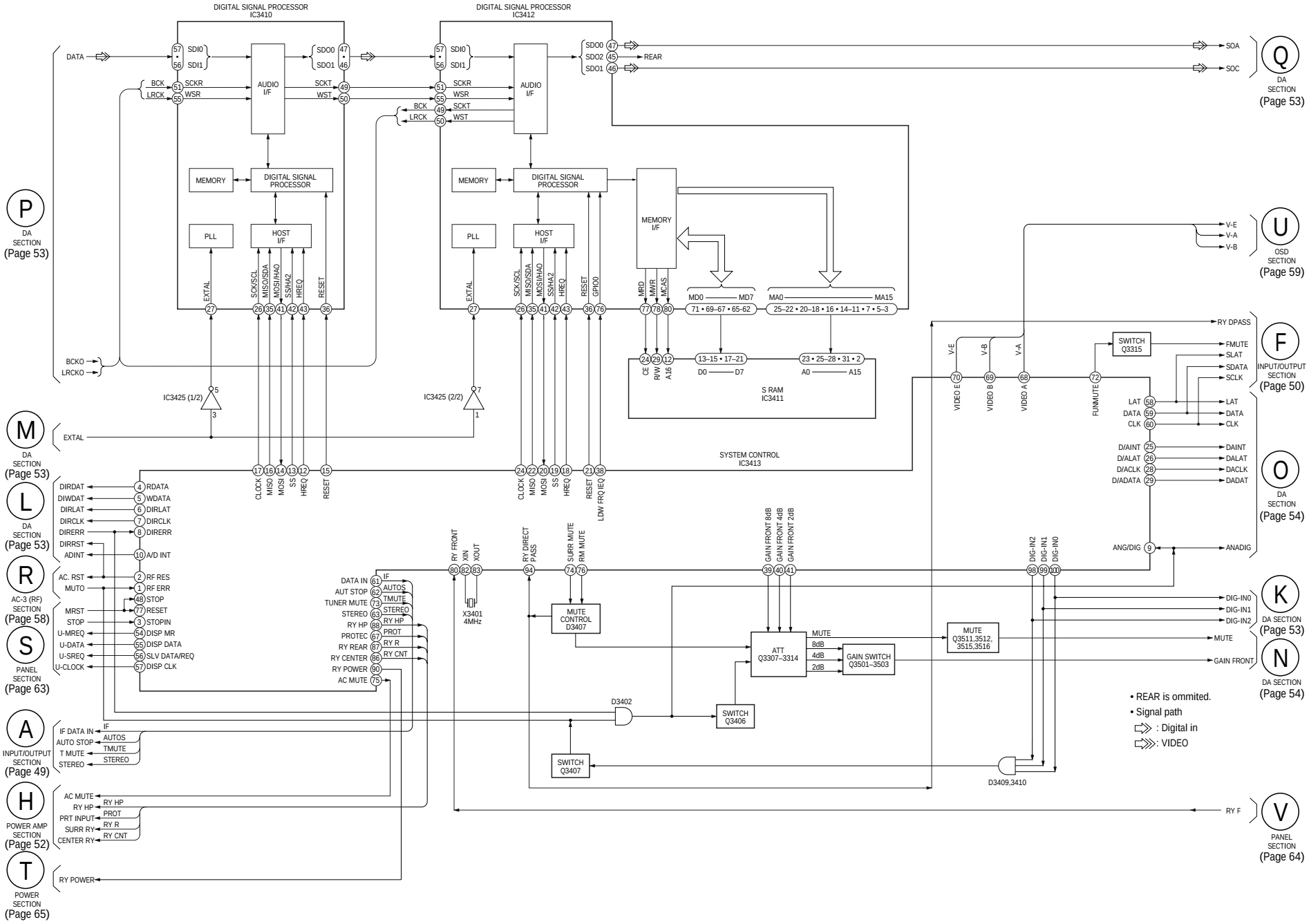
— DA SECTION —



- FRONT R-CH is ommited. (Same as FRONT L-CH).
- REAR L-CH, R-CH and SUPER WOOFER part were ommited. (Same as CENTER)
- Signal path
  - : FM
  - : Digital in
  - : Digital out
  - : RF (AC-3)
  - : SURROUND

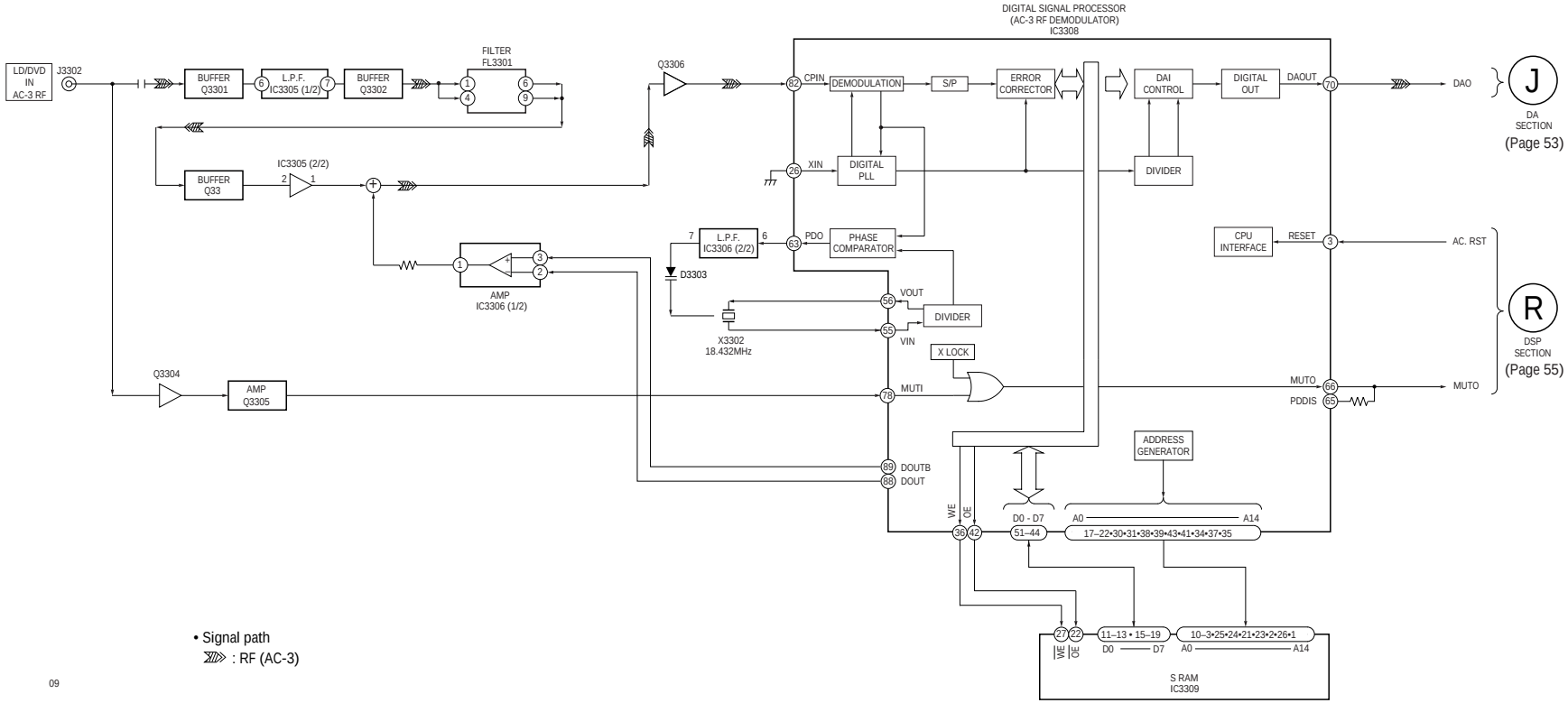
09

— DSP SECTION —

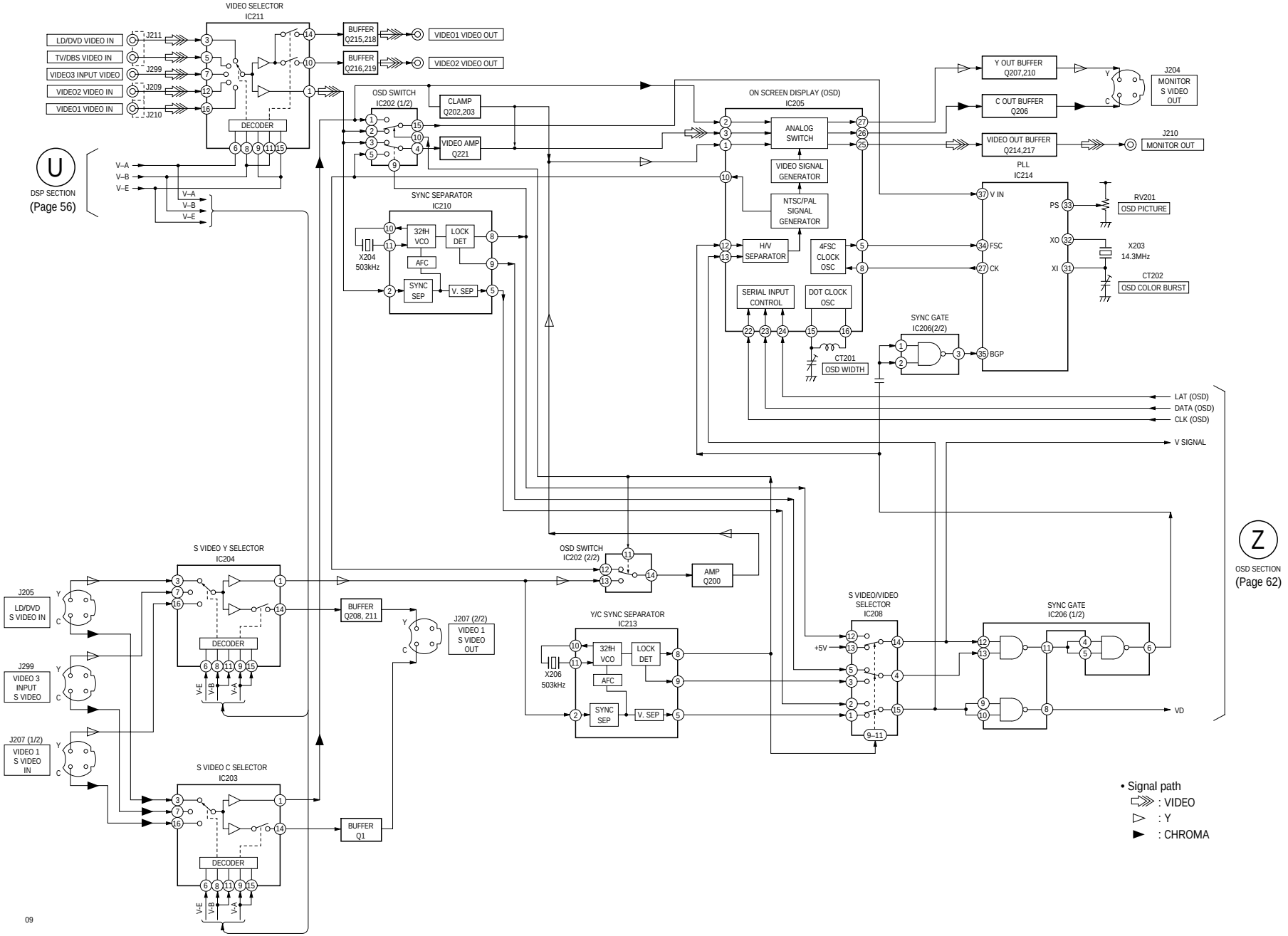


09

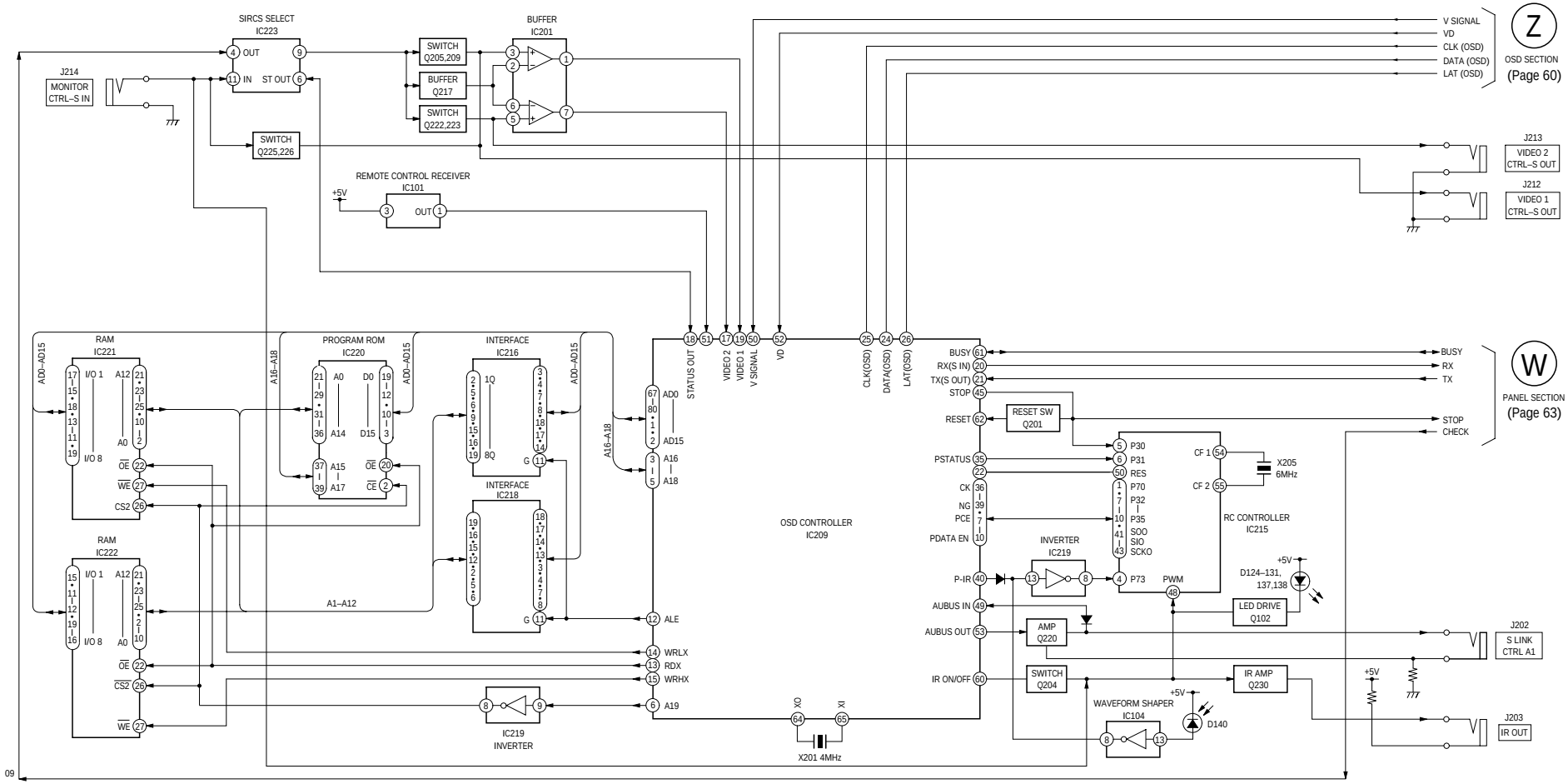
— AC-3 (RF) SECTION —



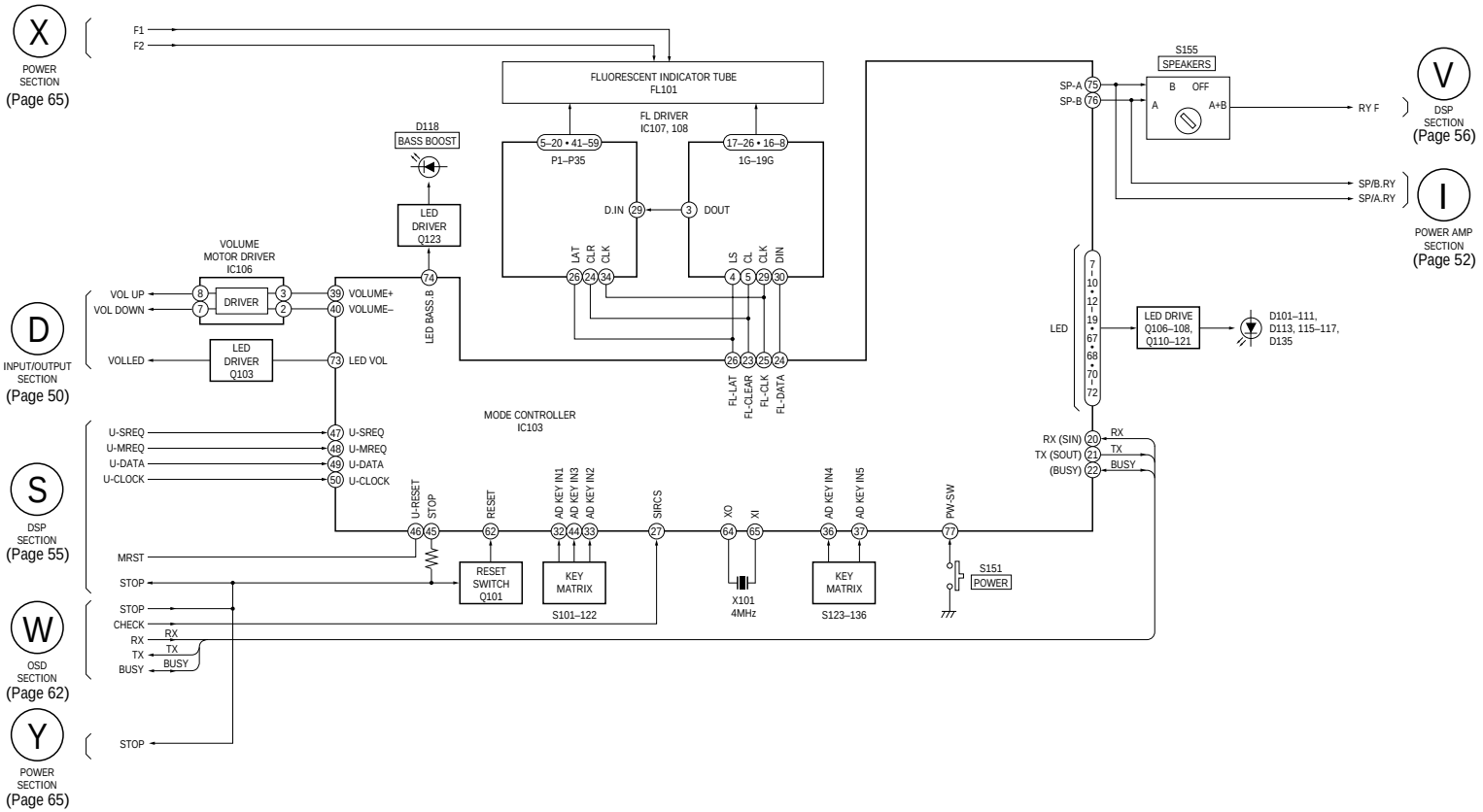
— OSD SECTION —


VIDEO SELECTOR
IC211
LD/DVD VIDEO IN
TV/DBS VIDEO IN
VIDEO3 INPUT VIDEO
VIDEO2 VIDEO IN
VIDEO1 VIDEO IN
J211
J299
J209
J210
DECODER
BUFFER Q215,218
BUFFER Q216,219
VIDEO1 VIDEO OUT
VIDEO2 VIDEO OUT
U
DSP SECTION
(Page 56)
V–A
V–B
V–E
OSD SWITCH
IC202 (1/2)
CLAMP Q202,203
VIDEO AMP Q221
SYNC SEPARATOR
IC210
X204
503kHz
32fH VCO
LOCK DET
AFC
SYNC SEP
V. SEP
ON SCREEN DISPLAY (OSD)
IC205
ANALOG SWITCH
VIDEO SIGNAL GENERATOR
NTSC/PAL SIGNAL GENERATOR
H/V SEPARATOR
4FSC CLOCK OSC
SERIAL INPUT CONTROL
DOT CLOCK OSC
Y OUT BUFFER Q207,210
C OUT BUFFER Q206
VIDEO OUT BUFFER Q214,217
J204
MONITOR S VIDEO OUT
J210
MONITOR OUT
PLL
IC214
V IN
FSC
CK
BGP
PS
XO
XI
RV201
OSD PICTURE
X203
14.3MHz
CT202
OSD COLOR BURST
SYNC GATE
IC206(2/2)
CT201
OSD WIDTH
LAT (OSD)
DATA (OSD)
CLK (OSD)
V SIGNAL
S VIDEO Y SELECTOR
IC204
J205
LD/DVD S VIDEO IN
J299
VIDEO 3 INPUT S VIDEO
J207 (1/2)
VIDEO 1 S VIDEO IN
BUFFER Q208, 211
J207 (2/2)
VIDEO 1 S VIDEO OUT
OSD SWITCH
IC202 (2/2)
AMP Q200
Y/C SYNC SEPARATOR
IC213
X206
503kHz
S VIDEO/VIDEO SELECTOR
IC208
+5V
SYNC GATE
IC206 (1/2)
VD
S VIDEO C SELECTOR
IC203
BUFFER Q1
Z
OSD SECTION
(Page 62)
• Signal path
: VIDEO
: Y
: CHROMA
09

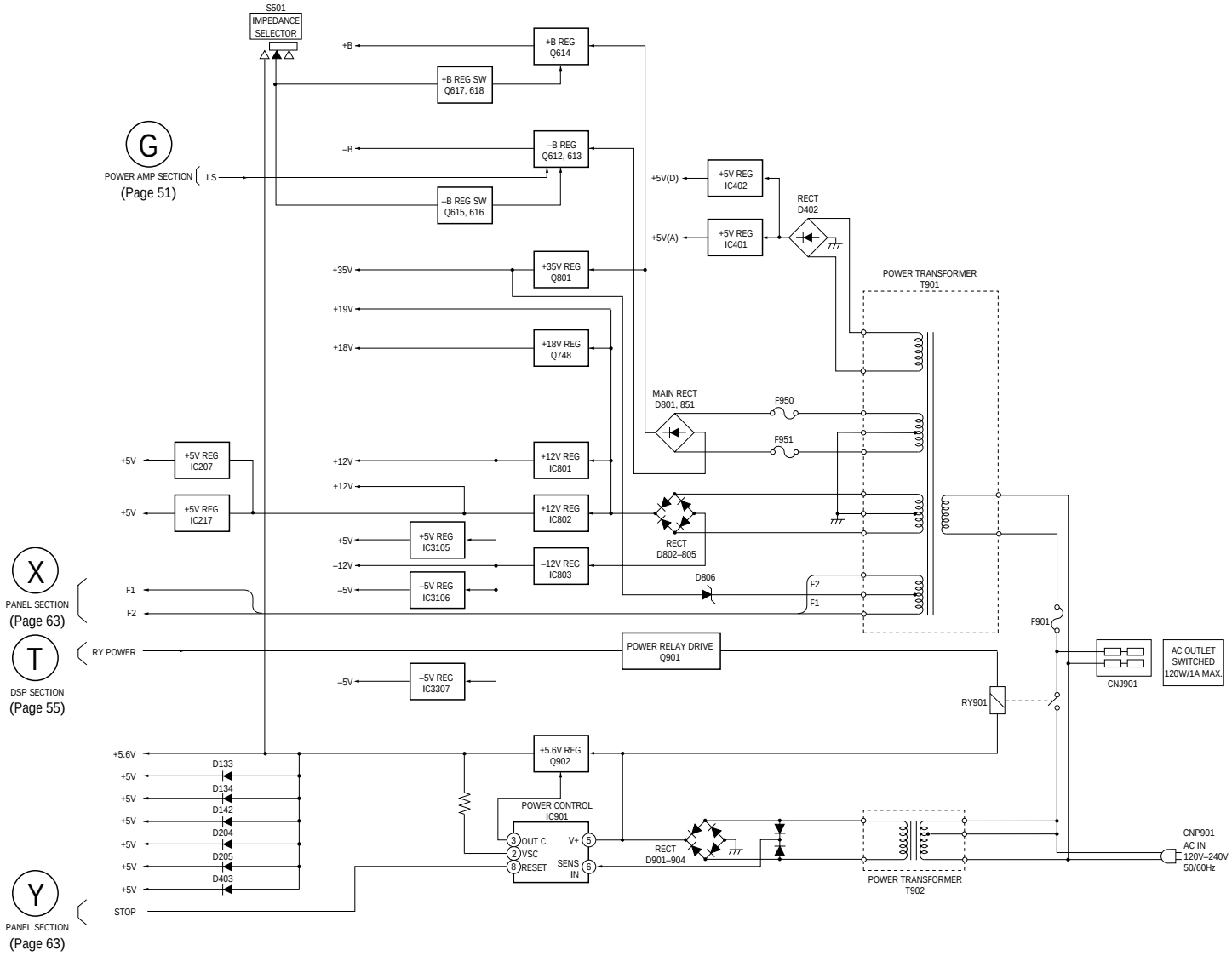
— OSD CONTROL SECTION —



— PANEL SECTION —



— POWER SECTION —

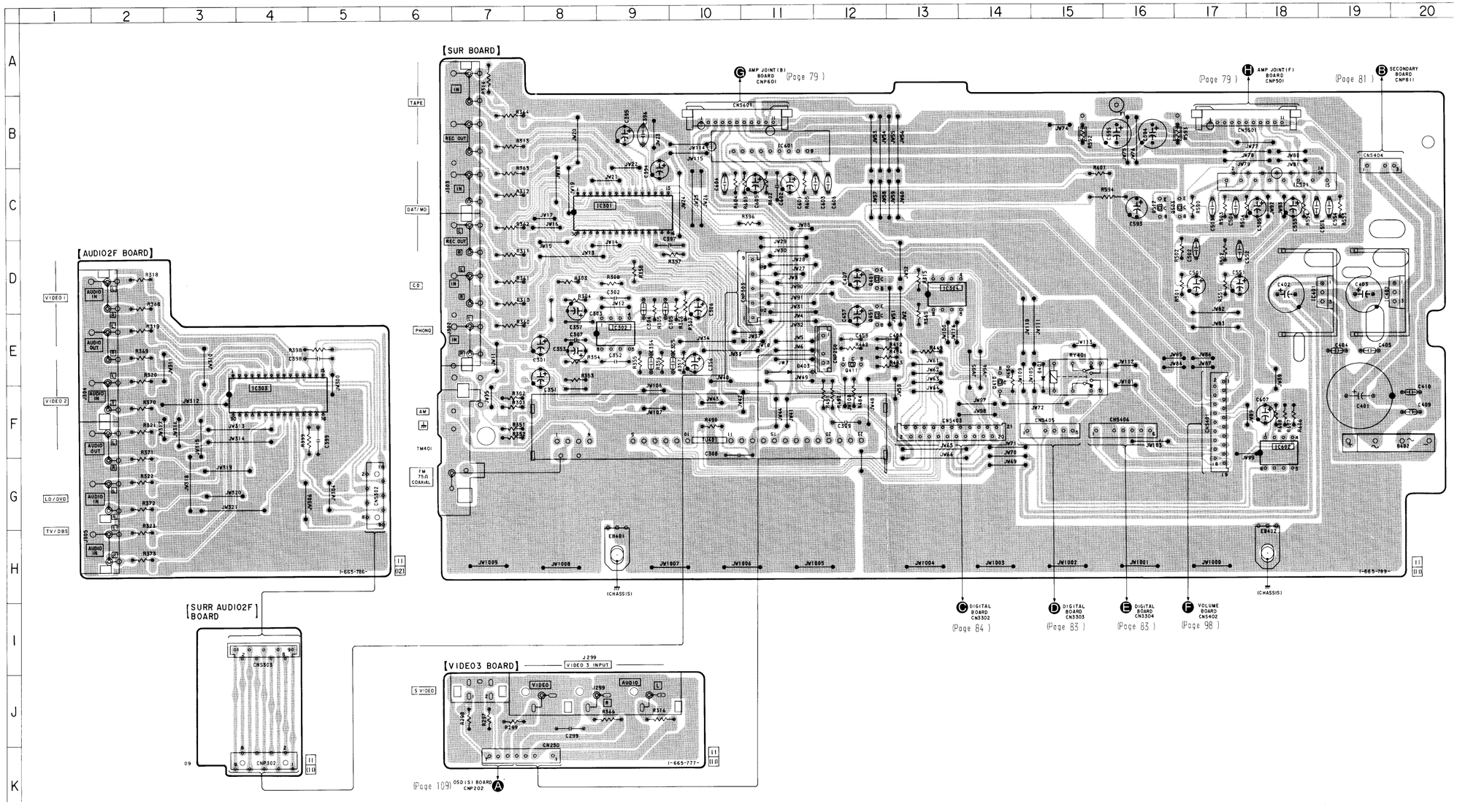


6-4. PRINTED WIRING BOARD — INPUT/OUTPUT SECTION —

• See page 47 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D401	E-15
D402	F-20
IC301	C-9
IC302	E-9
IC303	E-4
IC304	D-13
IC401	D-18
IC402	D-19
IC501	C-18
IC601	B-11
IC602	F-18
Q401	D-12
Q410	E-14
Q411	E-12
Q451	D-12
Q503	C-17
Q512	C-16

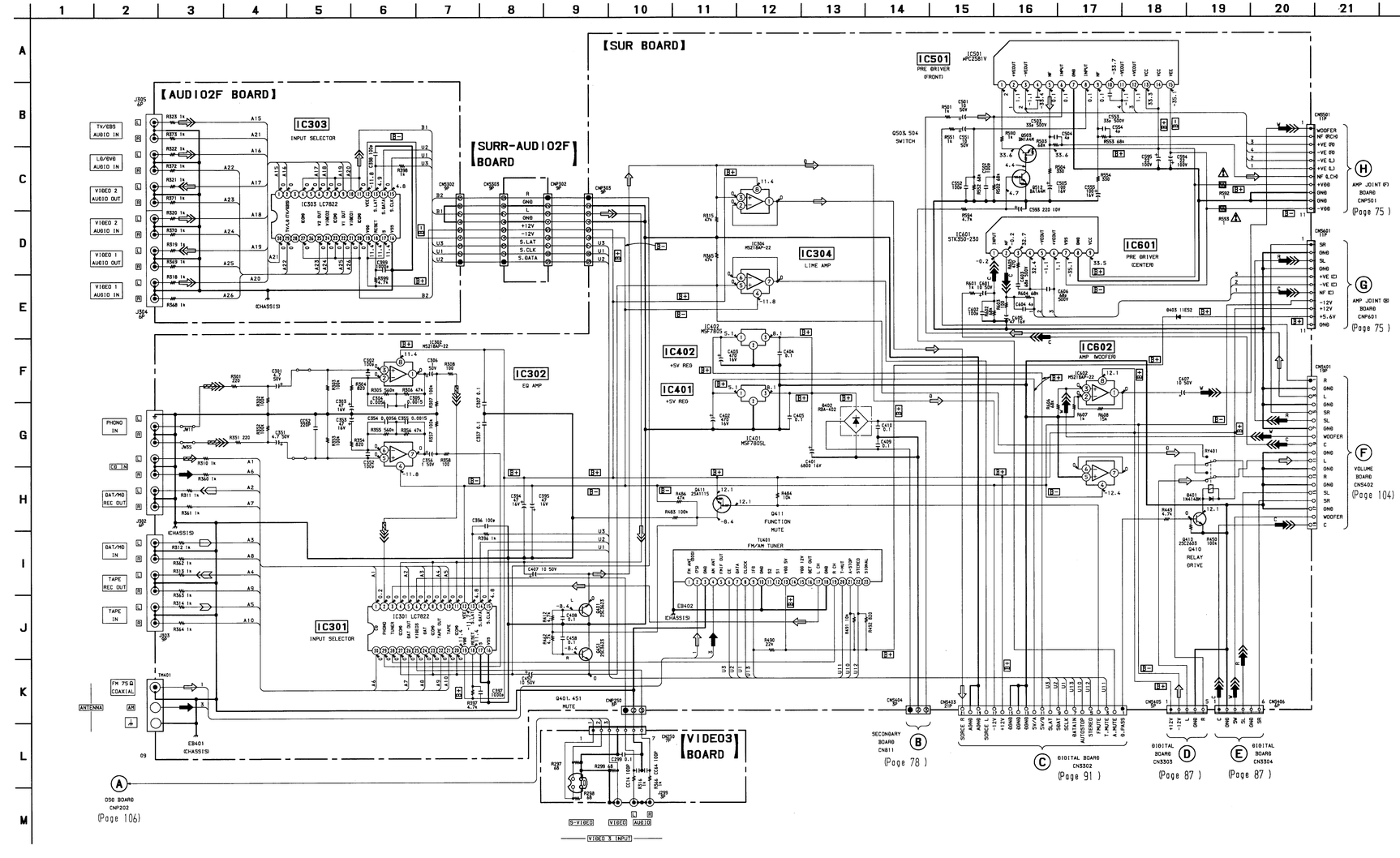


Note:

- ⟜—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enable seeing.

6-5. SCHEMATIC DIAGRAM — INPUT/OUTPUT SECTION —

• See page 112 for IC Block Diagrams.



NOTE

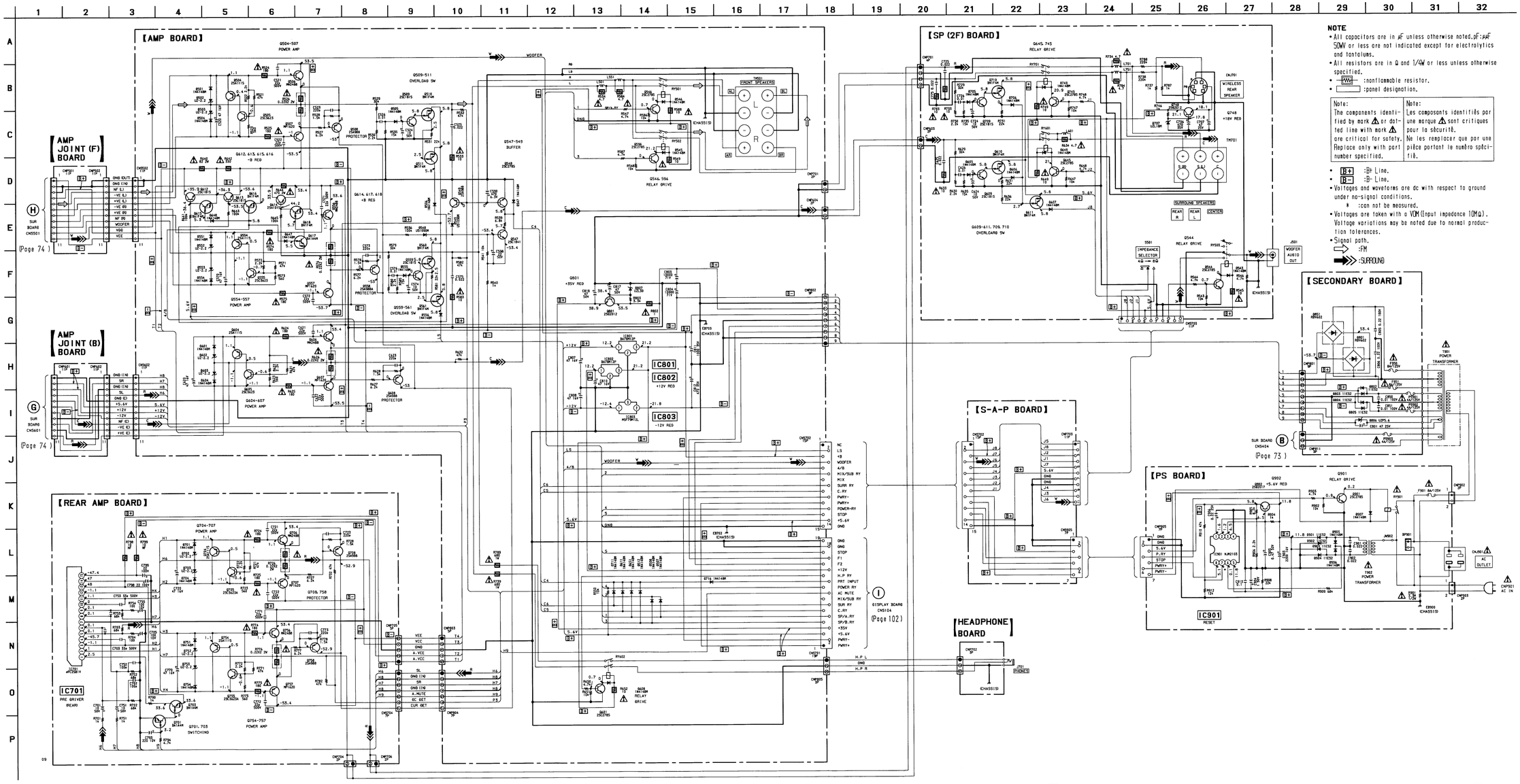
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭ :nonflammable resistor.
- ▭ :panel designation.

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

- B+ :B+ Line.
- B− :B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - ⇨ :FM
  - ➡ :AM
  - ⇨ :AUDIO
  - ⇨ :SURROUND
  - ⇨ :TAPE
  - ⇨ :BAT/MD
  - ⇨ :TAPE REC OUT
  - ⇨ :BAT/MD REC OUT
  - ⇨ :CD
  - ⇨ :PHONO

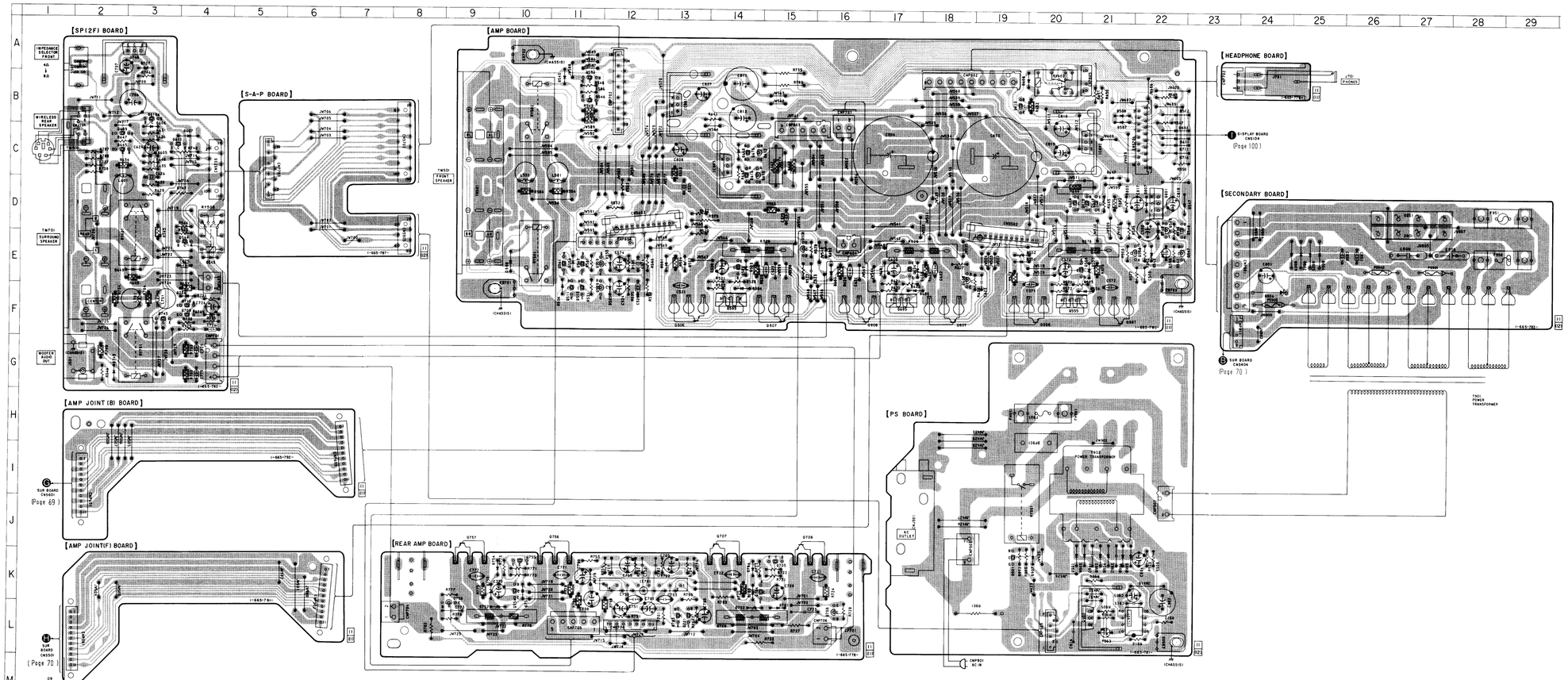
6-6. SCHEMATIC DIAGRAM — POWER AMP SECTION —

• See page 116 for IC Block Diagrams.



6-7. PRINTED WIRING BOARD — POWER AMP SECTION —

• See page 47 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D501	E-13	IC802	C-21
D502	E-13	IC803	C-14
D503	E-14	IC901	L-21
D504	E-14		
D505	F-12	Q504	E-14
D506	F-11	Q505	F-14
D507	B-21	Q506	F-13
D508	B-21	Q507	F-15
D512	B-22	Q508	E-15
D543	E-4	Q509	E-11
D546	E-10	Q510	F-11
D547	D-23	Q511	F-11
D548	E-22	Q544	E-4
D549	D-22	Q546	B-11
D551	E-20	Q547	E-23
D552	E-20	Q548	D-23
D553	E-21	Q549	D-22
D554	E-21	Q554	E-21
D555	E-12	Q555	F-20
D556	E-11	Q556	F-20
D601	E-16	Q558	E-22
D602	E-16	Q559	E-11
D604	F-18	Q560	E-11
D607	C-4	Q561	E-11
D611	C-22	Q596	B-11
D647	C-21	Q604	E-17
D648	C-14	Q605	F-17
D649	E-2	Q606	F-16
D651	C-22	Q607	F-18
D701	K-15	Q608	E-18
D702	L-14	Q609	C-2
D703	K-14	Q610A	B-3
D704	K-14	Q610B	B-19
D705	F-4	Q611	C-3
D706	F-4	Q612	C-15
D707	A-3	Q613	C-15
D711	C-22	Q614	D-20
D716	C-22	Q615	C-14
D749	G-2	Q616	C-14
D751	K-10	Q617	D-21
D752	L-9	Q618	D-21
D753	K-9	Q645	C-2
D754	K-9	Q701	L-13
D801	E-27	Q703	L-13
D802	E-24	Q704	K-14
D803	E-25	Q705	K-15
D804	E-24	Q706	J-15
D805	E-24	Q707	J-14
D806	F-24	Q708	L-16
D807	D-22	Q709	F-4
D851	D-27	Q710	F-4
D901	K-20	Q745	F-3
D902	K-21	Q748	A-3
D903	K-20	Q754	K-10
D904	K-21	Q755	K-10
D905	K-21	Q756	J-10
D906	K-21	Q757	J-9
D907	K-20	Q758	K-9
		Q801	D-22
IC701	K-12	Q901	K-19
IC801	B-13	Q902	L-21

Note:

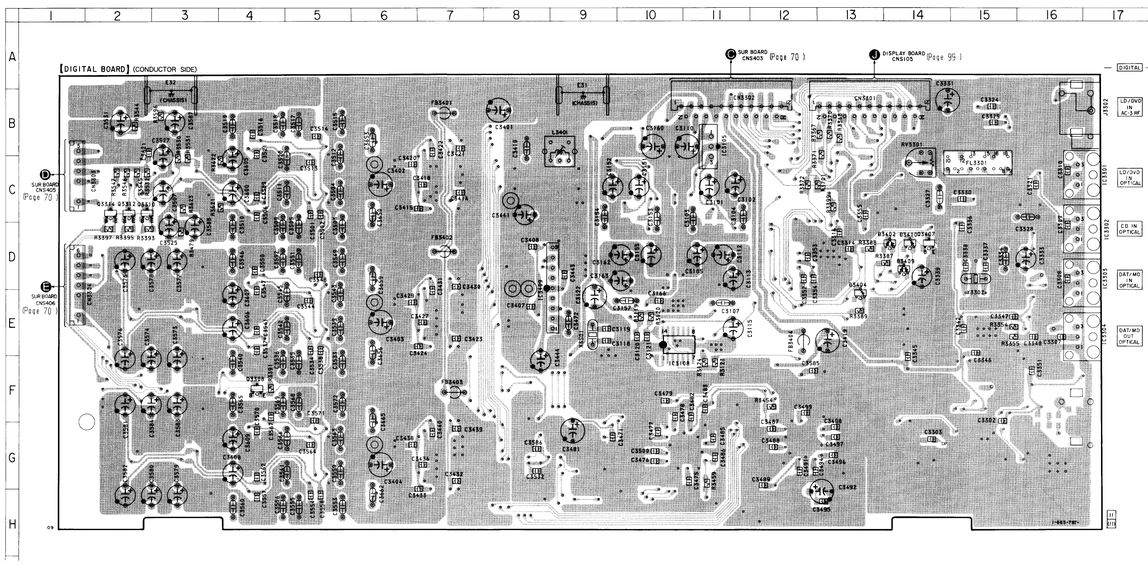
- ○——: parts extracted from the component side.
- ▒▒▒: Pattern from the side which enable seeing.

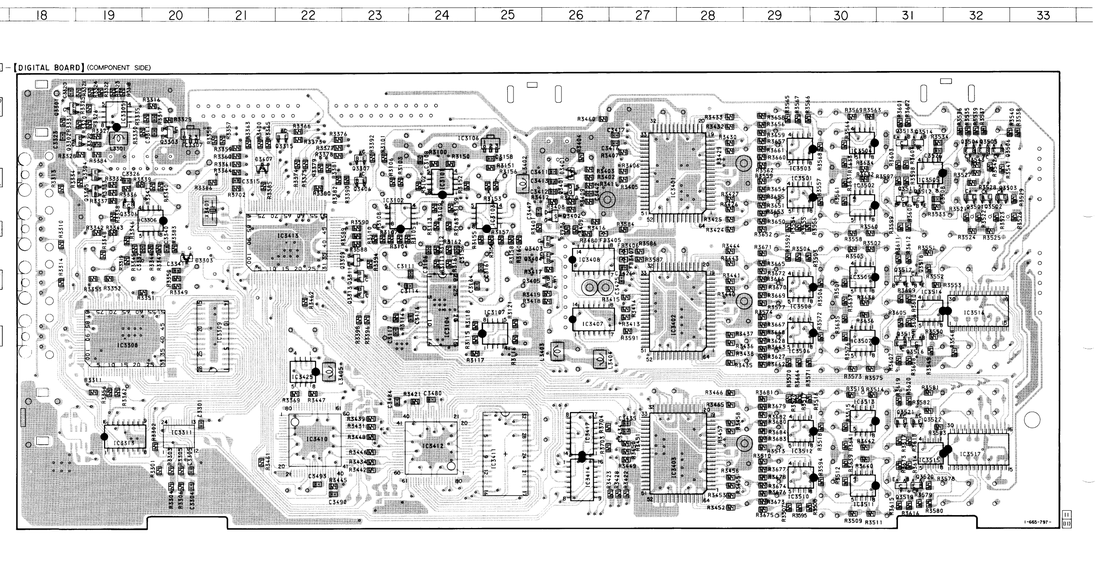
6-8. PRINTED WIRING BOARD — DIGITAL SECTION —

• See page 47 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D3303	D-20	IC3510	H-29
D3401	C-26	IC3511	H-30
D3402	D-14	IC3512	G-29
D3404	D-13	IC3513	F-30
D3407	C-21	IC3514	E-31
D3409	D-14	IC3515	G-31
D3410	D-14	IC3516	E-32
		IC3517	G-32
IC3101	C-24		
IC3102	C-23	Q3301	B-18
IC3103	C-25	Q3302	B-18
IC3104	E-24	Q3303	B-20
IC3105	B-11	Q3304	C-19
IC3106	B-24	Q3305	C-19
IC3107	E-25	Q3306	C-19
IC3108	F-10	Q3307	C-23
IC3301	C-17	Q3308	F-4
IC3302	D-17	Q3309	D-22
IC3303	D-17	Q3310	C-2
IC3304	E-17	Q3311	D-23
IC3305	B-19	Q3312	C-2
IC3306	D-20	Q3313	E-23
IC3307	B-20	Q3314	C-2
IC3308	E-19	Q3315	B-22
IC3309	E-21	Q3401	C-26
IC3311	G-20	Q3402	C-26
IC3313	G-19	Q3403	D-25
IC3401	C-27	Q3404	D-25
IC3402	E-27	Q3405	D-25
IC3403	G-27	Q3406	C-23
IC3407	E-26	Q3407	D-14
IC3408	D-26	Q3501	C-32
IC3409	D-8	Q3502	C-32
IC3410	G-22	Q3503	C-32
IC3411	G-25	Q3504	B-32
IC3412	G-24	Q3505	B-32
IC3413	D-22	Q3506	B-32
IC3414	G-26	Q3511	C-31
IC3417	G-26	Q3512	C-31
IC3425	F-22	Q3513	B-31
IC3501	C-29	Q3514	B-31
IC3502	C-30	Q3515	E-31
IC3503	C-29	Q3516	E-31
IC3504	B-30	Q3517	D-31
IC3505	C-31	Q3518	D-31
IC3506	E-29	Q3519	H-31
IC3507	E-30	Q3520	G-31
IC3508	E-29	Q3521	F-31
IC3509	D-30	Q3522	F-31



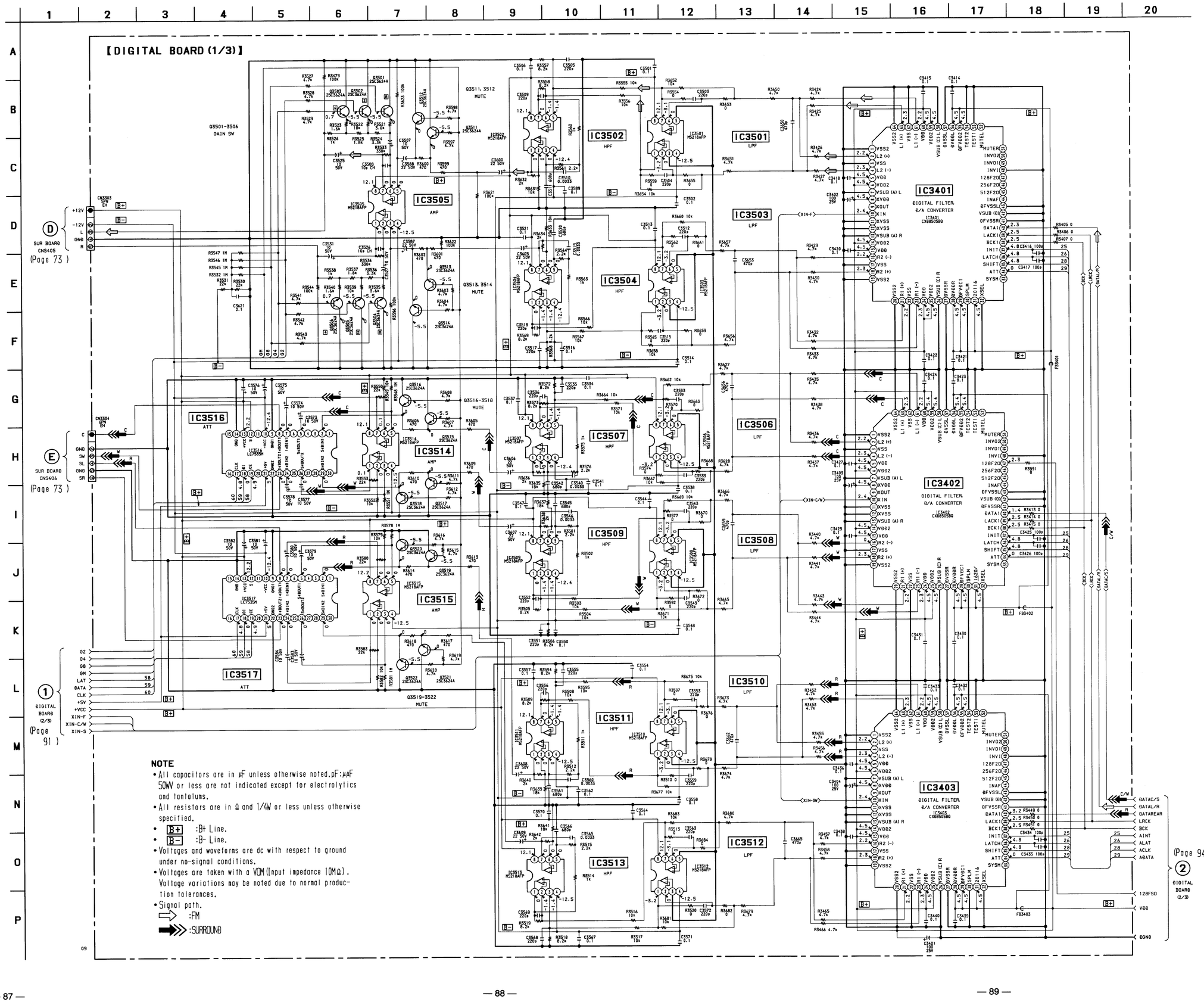


Note:

- ⟷ : parts extracted from the component side.
- ○ : Through hole.
- ▒▒▒ : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

6-9. SCHEMATIC DIAGRAM — DIGITAL (D/A) SECTION —

• See page 113 for IC Block Diagrams.

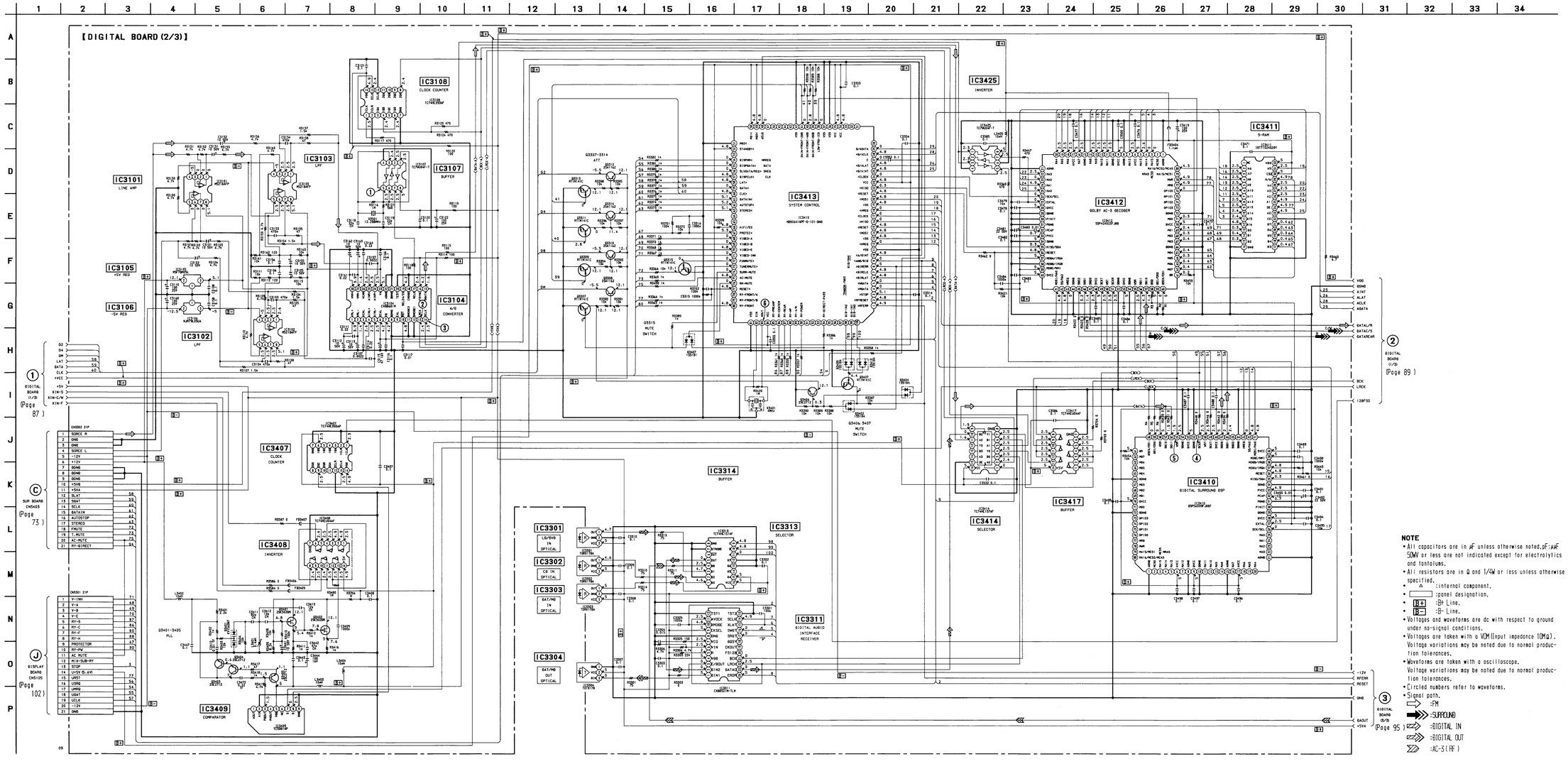


NOTE

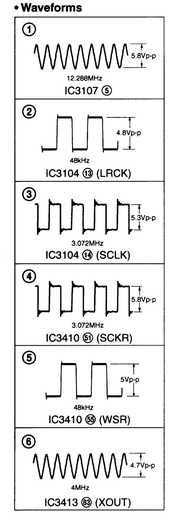
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ :B+ Line.
- B− :B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ :FM
  ⇛ :SURROUND

6-10. SCHEMATIC DIAGRAM — DIGITAL (CONTROL) SECTION —

- See page 112 for IC Block Diagrams.
- See page 39, 42 for IC Pin Functions.
- See page 83 for Printed Wiring Board. (DIGITAL BOARD)



• Waveforms



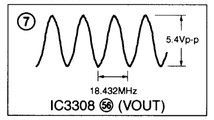
NOTE

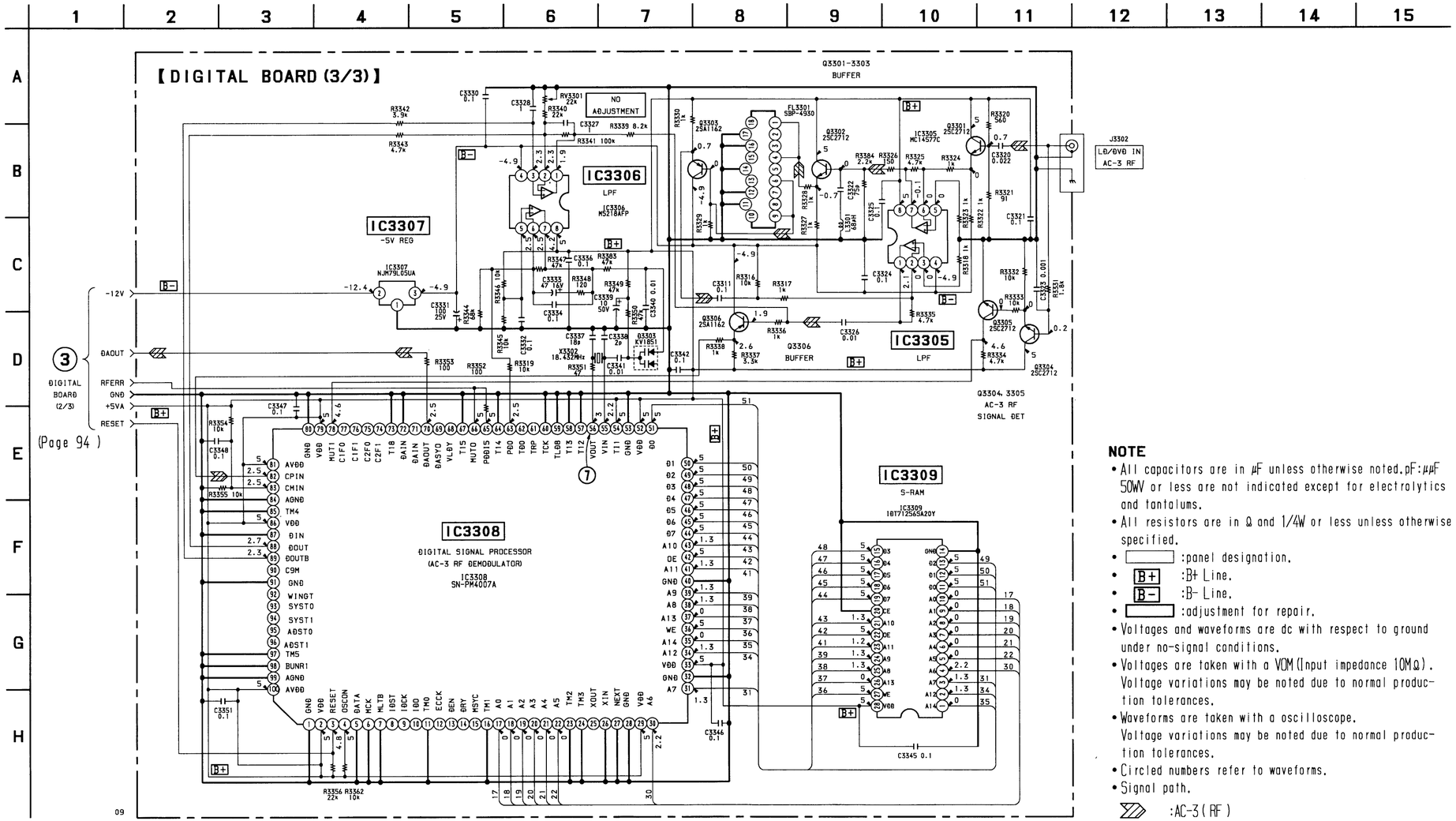
- All capacitors are in μF unless otherwise noted. pF: μF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- □ : panel designation.
- B+ : B+ Line.
- B- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : FM
  - : SURROUND
  - : DIGITAL IN
  - : DIGITAL OUT
  - : AC-3 (RF)

6-11. SCHEMATIC DIAGRAM — DIGITAL (DOLBY AC-3) SECTION —

- See page 38 for IC Pin Functions.
- See page 83 for Printed Wiring Board. (DIGITAL BOARD)

• Waveforms





NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭ :panel designation.
- B+ :B+ Line.
- B− :B− Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

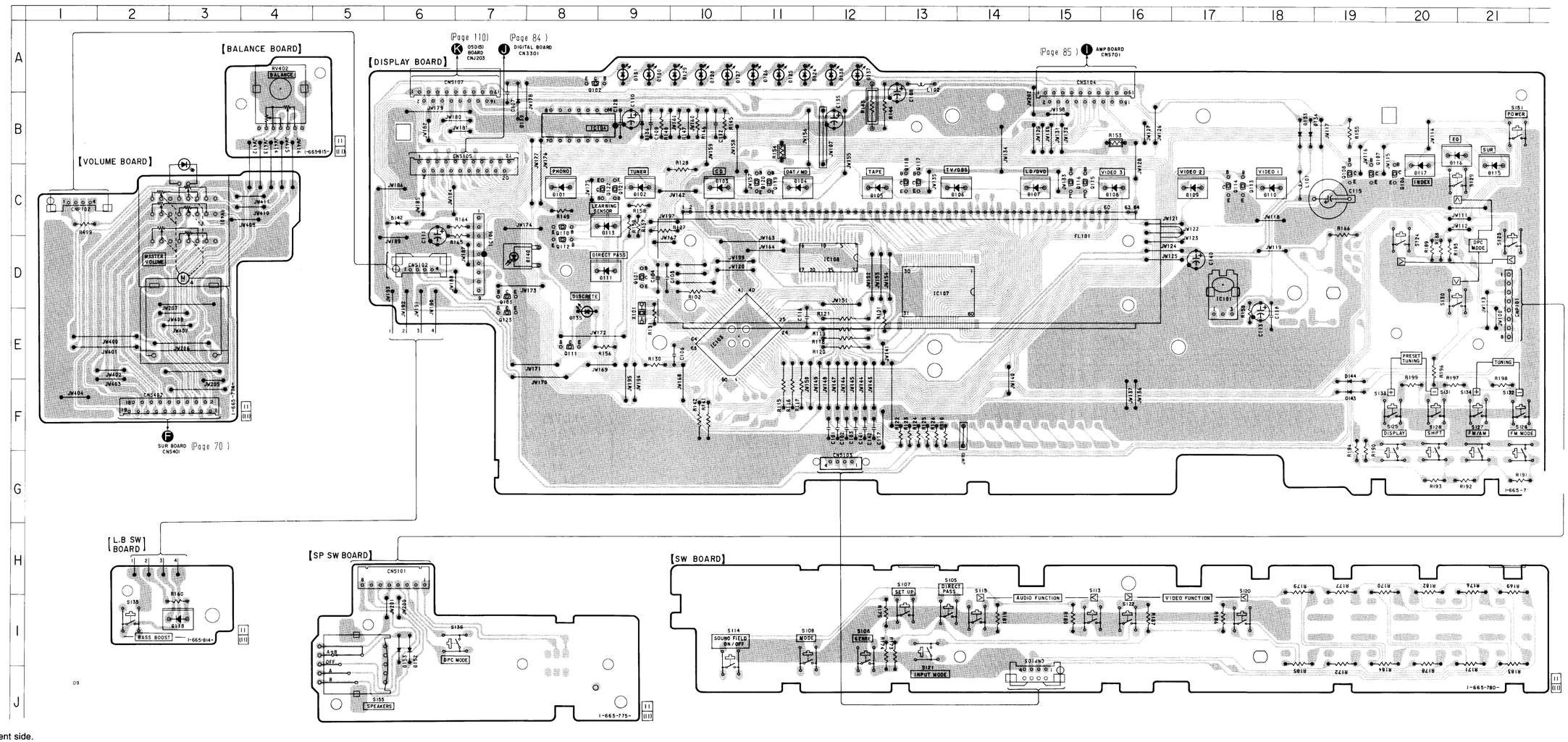
▨ :AC-3 (RF)

6-12. PRINTED WIRING BOARD — PANEL SECTION —

• See page 47 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D101	C-8
D102	C-9
D103	C-10
D104	C-11
D105	C-12
D106	C-14
D107	C-15
D108	C-16
D109	C-17
D110	C-18
D111	D-9
D113	C-9
D115	C-21
D116	B-20
D117	C-20
D118	I-3
D119	D-18
D124	A-11
D125	A-11
D126	A-11
D127	A-10
D128	A-10
D129	A-10
D130	A-9
D131	A-9
D133	B-18
D134	B-18
D135	E-8
D136	B-9
D137	A-12
D138	A-12
D139	B-7
D140	D-8
D142	C-6
D143	F-19
D144	F-19
D152	I-6
D153	I-6
IC101	D-17
IC103	E-10
IC104	B-8
IC106	D-7
IC107	D-13
IC108	D-12
Q101	D-9
Q102	A-8
Q103	D-7
Q104	D-19
Q105	D-19
Q106	C-20
Q107	C-19
Q108	C-19
Q110	C-8
Q111	E-8
Q112	D-8
Q113	C-18
Q114	C-17
Q115	C-15
Q116	C-15
Q117	C-13
Q118	C-13
Q119	C-11
Q120	C-11
Q121	C-9
Q122	C-9
Q123	E-7



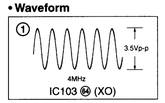
Note:

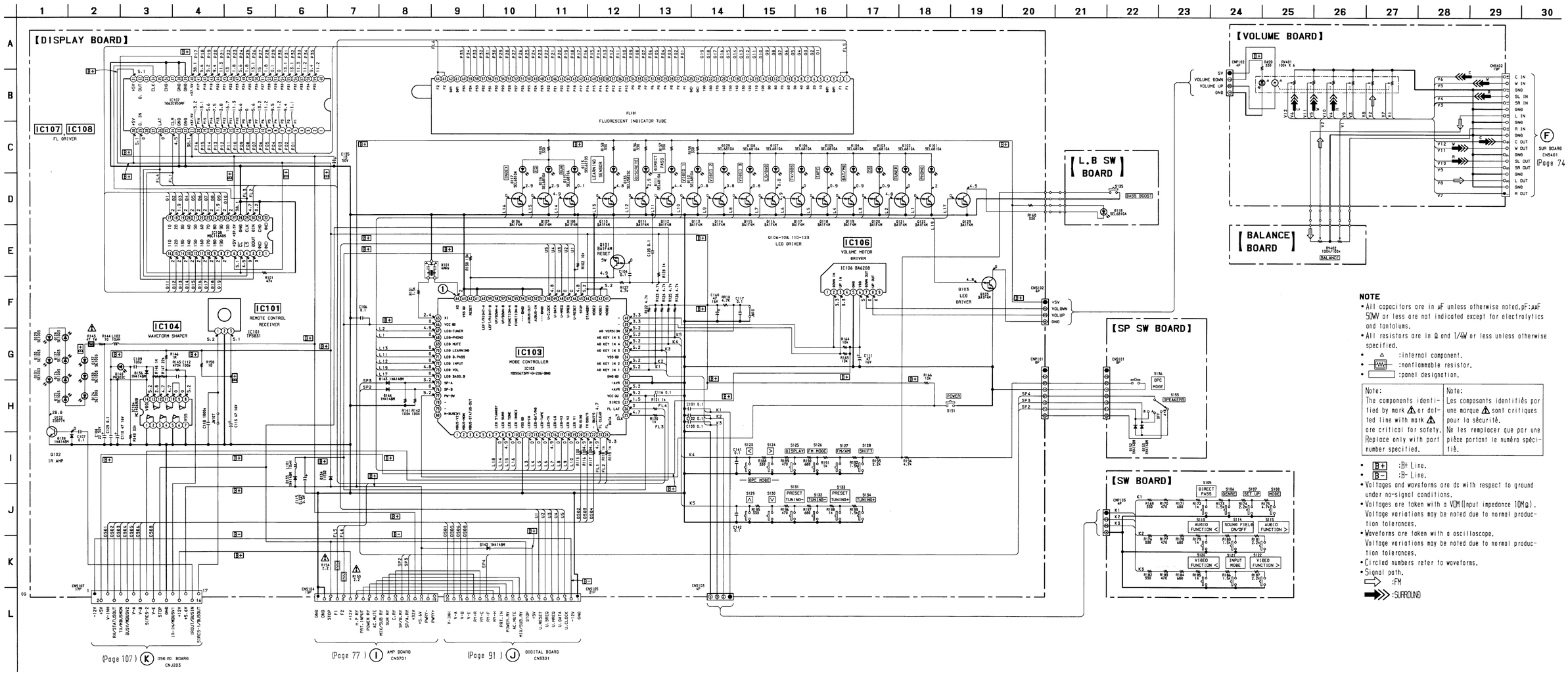
- ⟜—— : parts extracted from the component side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enable seeing.

6-13. SCHEMATIC DIAGRAM — PANEL SECTION —

- See page 116 for IC Block Diagrams.
- See page 30 for IC Pin Functions.

• Waveform





NOTE

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

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

- B+ : B+ Line.
- B− : B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ⇛ : SURROUND

6-14. SCHEMATIC DIAGRAM — OSD SECTION —

- **See page 114 for IC Block Diagrams.**
- **See page 32 for IC Pin Functions.**

• Waveforms

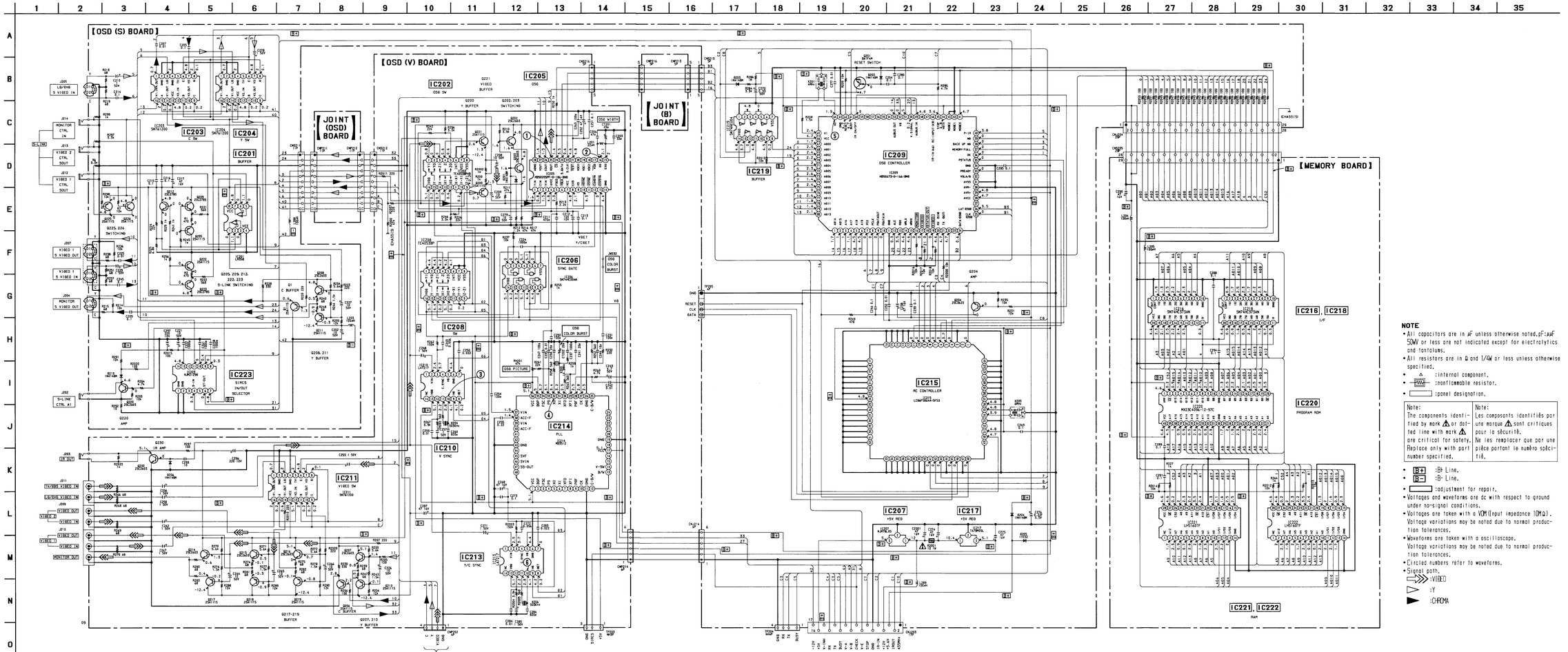
① 0.8Vp-p
152kHz
IC205 ㉘ (VOUT)

② 4.8Vp-p
5.85MHz
IC205 ⑯ (XD)

③ 0.8Vp-p
520kHz
IC210 ⑲ (VCO IN)

④ 1Vp-p
14.3MHz
IC214 ㉒ (XO)

⑤ 3.4Vp-p
4MHz
IC209 ㊵ (XO)



NOTE

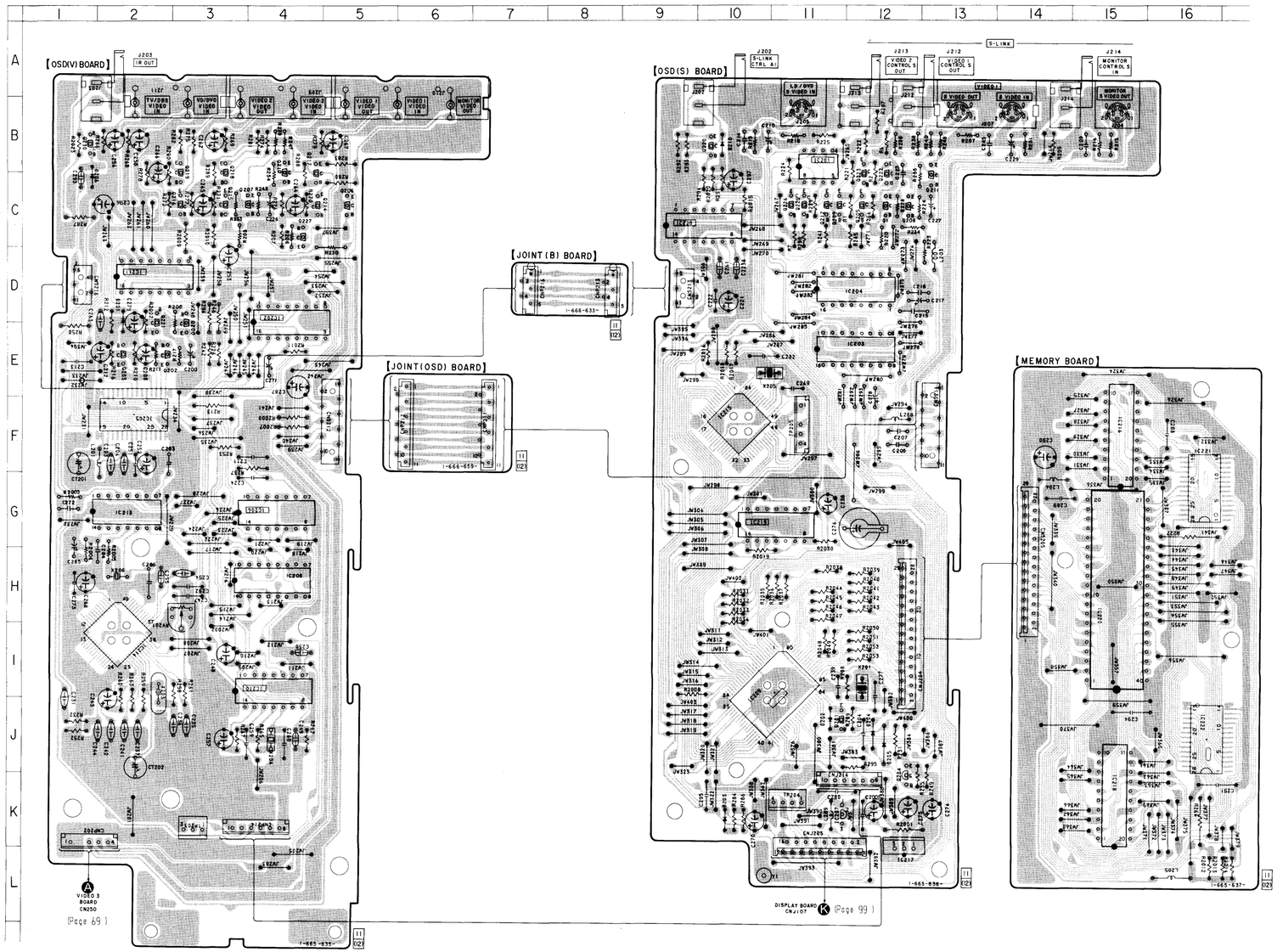
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ⚠ :nonflammable resistor.
- ▭ :panel designation.

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

- B+ :B+ Line.
- B- :B- Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇒ :VIDEO
  - ▷ :Y
  - ▶ :CHROMA

6-15. PRINTED WIRING BOARD — OSD SECTION —

• See page 47 for Circuit Boards Location.



— 109 —

— 110 —

• **Semiconductor Location**

Ref. No.	Location
D201	D-2
D202	J-11
D203	K-10
D204	J-12
D205	J-12
D206	C-1
D210	B-10
IC201	B-11
IC202	D-4
IC203	E-12
IC204	D-12
IC205	F-2
IC206	G-4
IC207	K-11
IC208	H-4
IC209	I-10
IC210	I-4
IC211	D-2
IC213	G-2
IC214	I-2
IC215	F-10
IC216	F-15
IC217	L-12
IC218	K-15
IC219	G-10
IC220	H-15
IC221	F-16
IC222	J-16
IC223	C-9
Q1	C-12
Q200	E-3
Q201	J-11
Q202	E-2
Q203	E-2
Q204	K-12
Q205	C-12
Q206	C-5
Q207	C-3
Q208	C-12
Q209	C-11
Q210	B-4
Q211	C-13
Q212	C-11
Q214	C-5
Q215	C-3
Q216	C-3
Q217	B-4
Q218	C-3
Q219	C-3
Q220	B-10
Q221	D-2
Q222	C-12
Q223	C-12
Q225	C-11
Q226	C-11
Q227	C-4
Q230	B-1

Note:

• o—— : parts extracted from the component side.

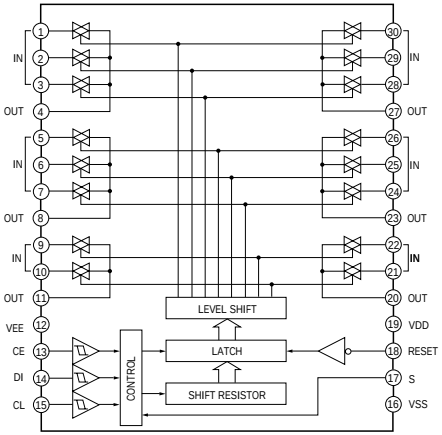
• ▒▒ : Pattern from the side which enable seeing.

— 111 —

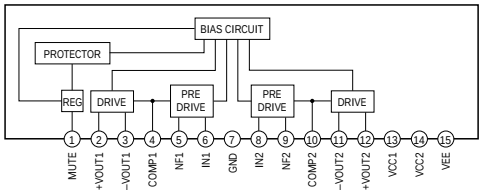
6-16. IC BLOCK DIAGRAMS

• INPUT/OUTPUT SECTION

IC301, 303 LC7822

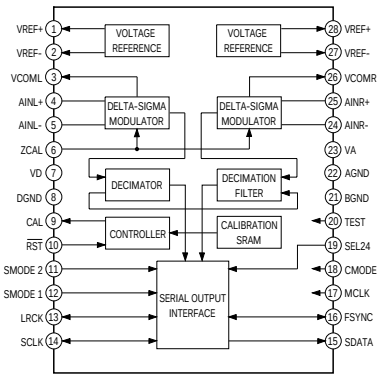


IC501 uPC2581V

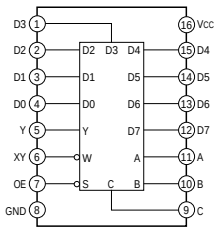


• DIGITAL (CONTROL) SECTION

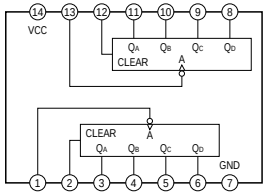
IC3104 CXD8681M-TP



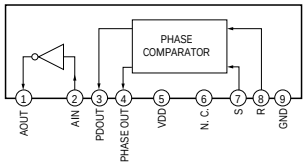
IC3313 TC74HC151AF



IC3108, 3407 TC74HC393AF

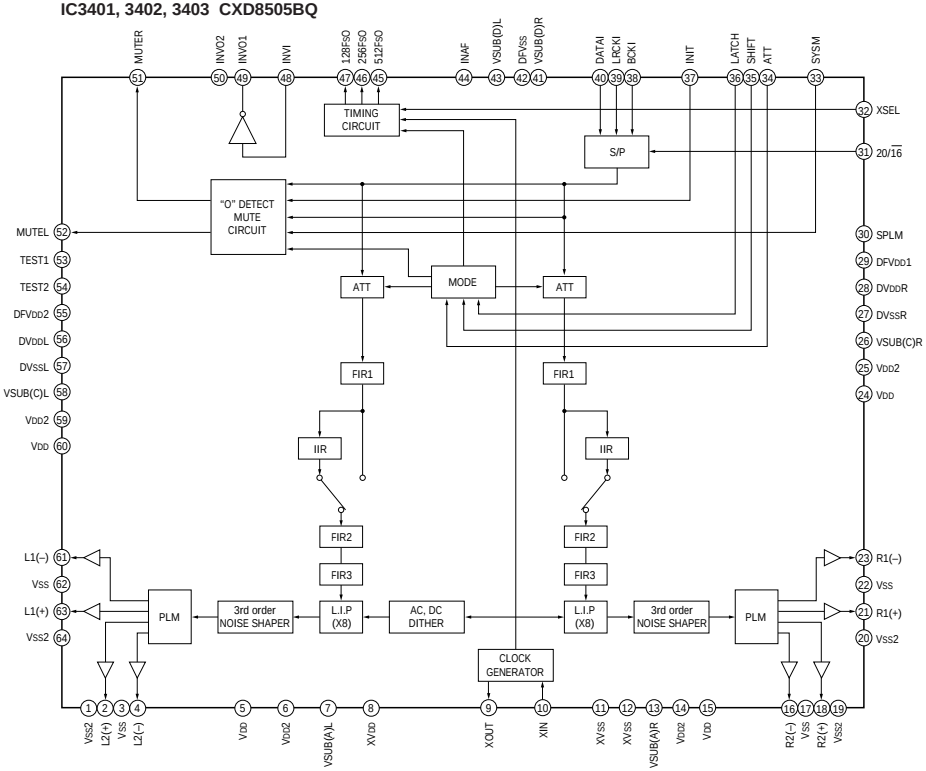


IC3409 TC5081AP

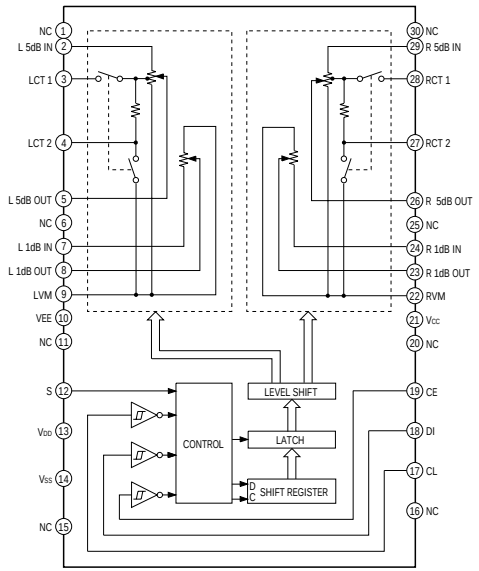


• DIGITAL (D/A) SECTION

IC3401, 3402, 3403 CXD8505BQ

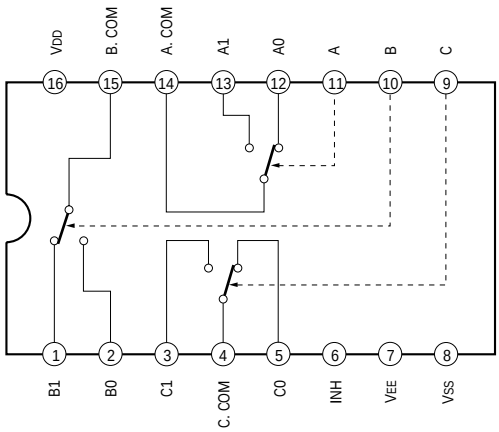


IC3516, 3517 LC7535M

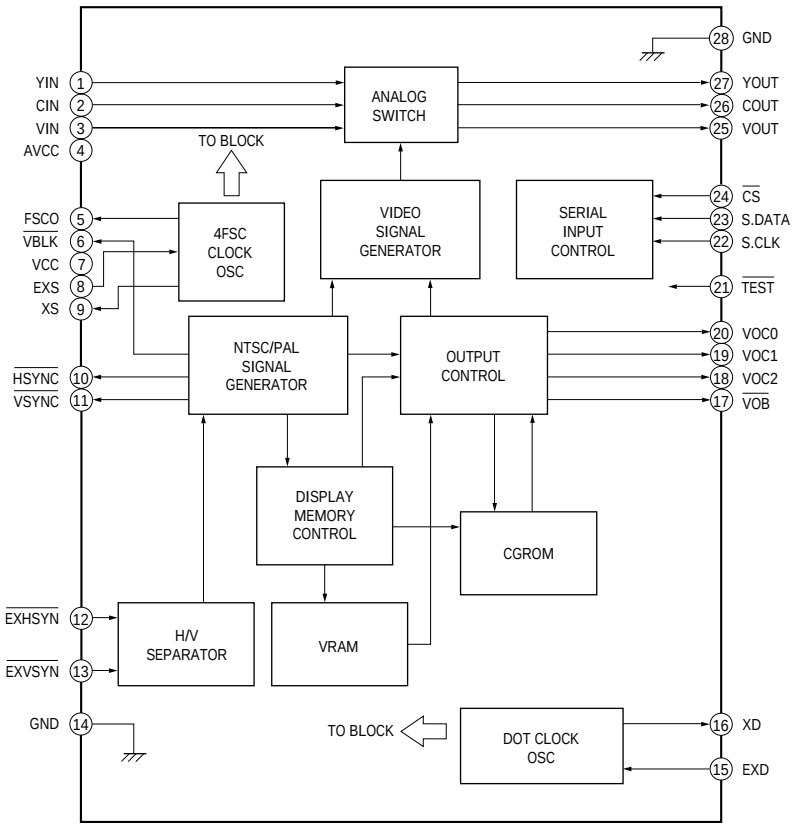


• OSD SECTION

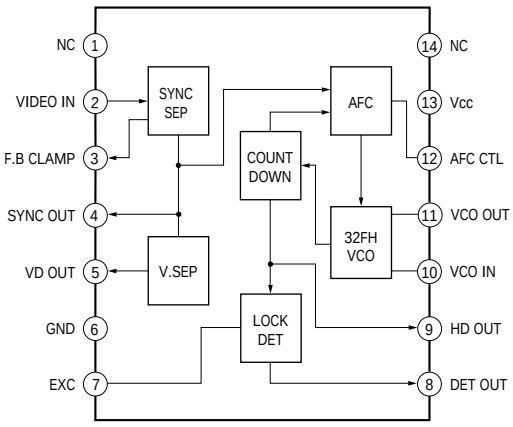
IC202 uPD4053BC



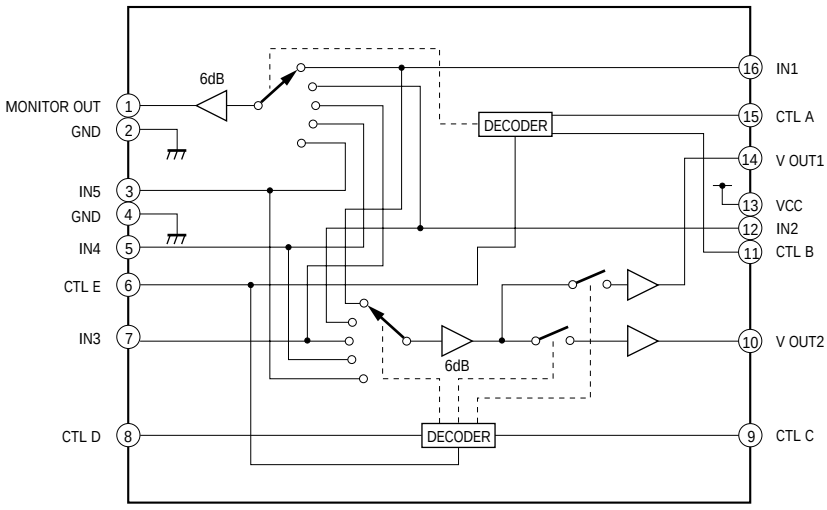
IC205 MB90095PF-186-BND



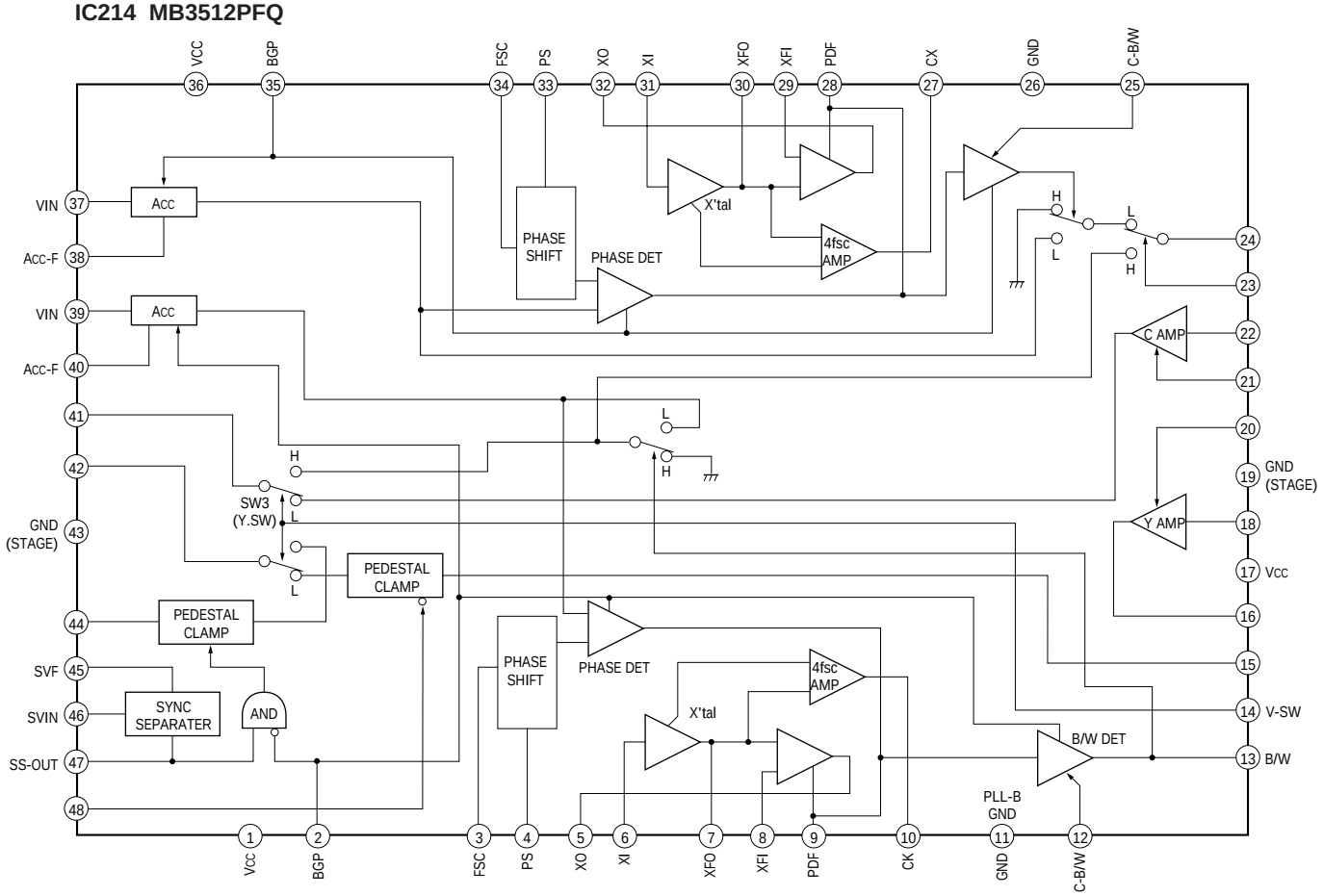
IC210, 213 LA7217



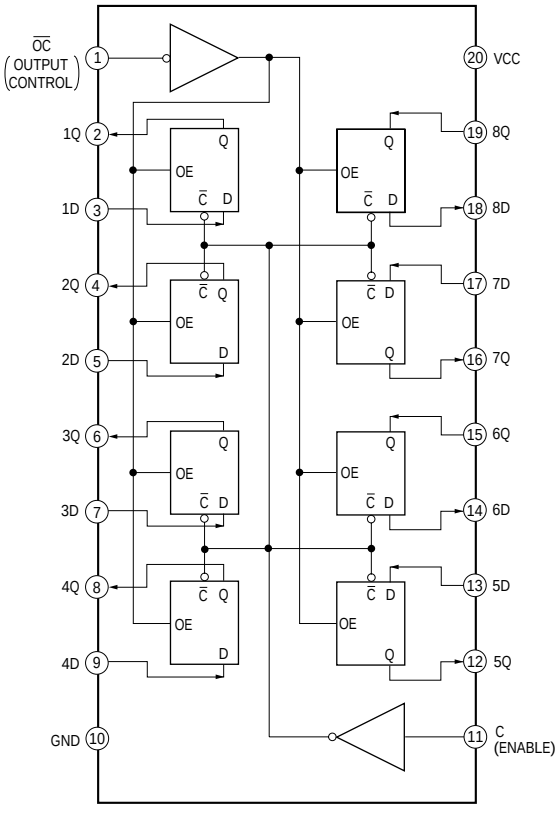
IC203, 204, 211 SN761200



IC214 MB3512PFQ

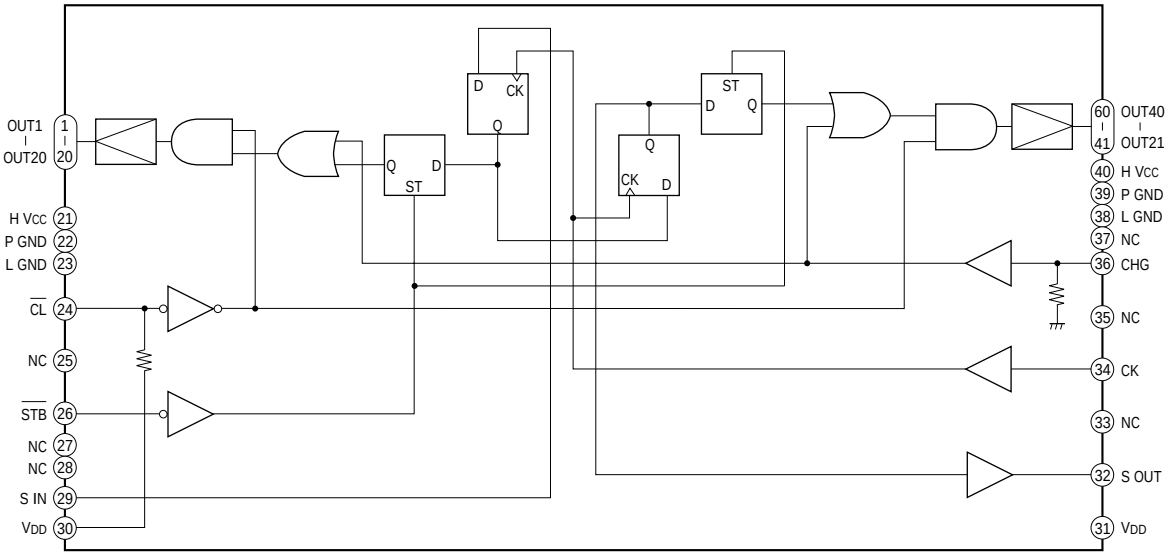


IC216, 218 SN74HC373AN

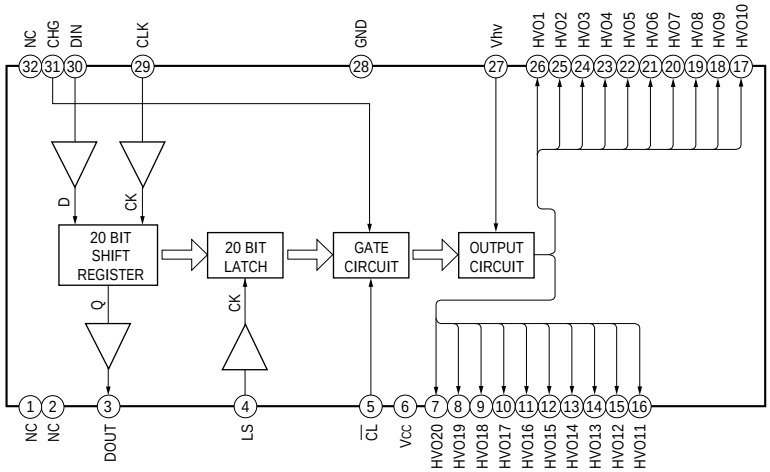


• PANEL SECITON

IC107 TD62C950RF

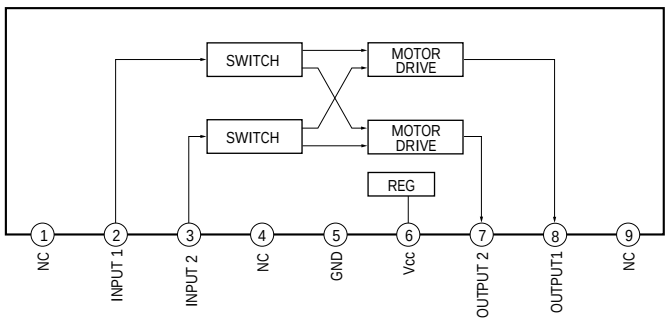


IC108 MSC1164GS-K

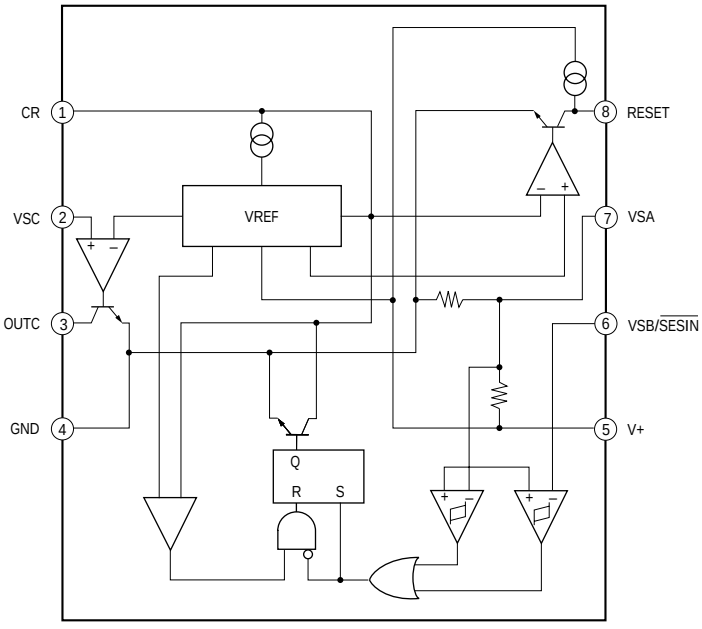


• POWER AMP SECTION

IC106 BA6208



IC901 NJM2103D



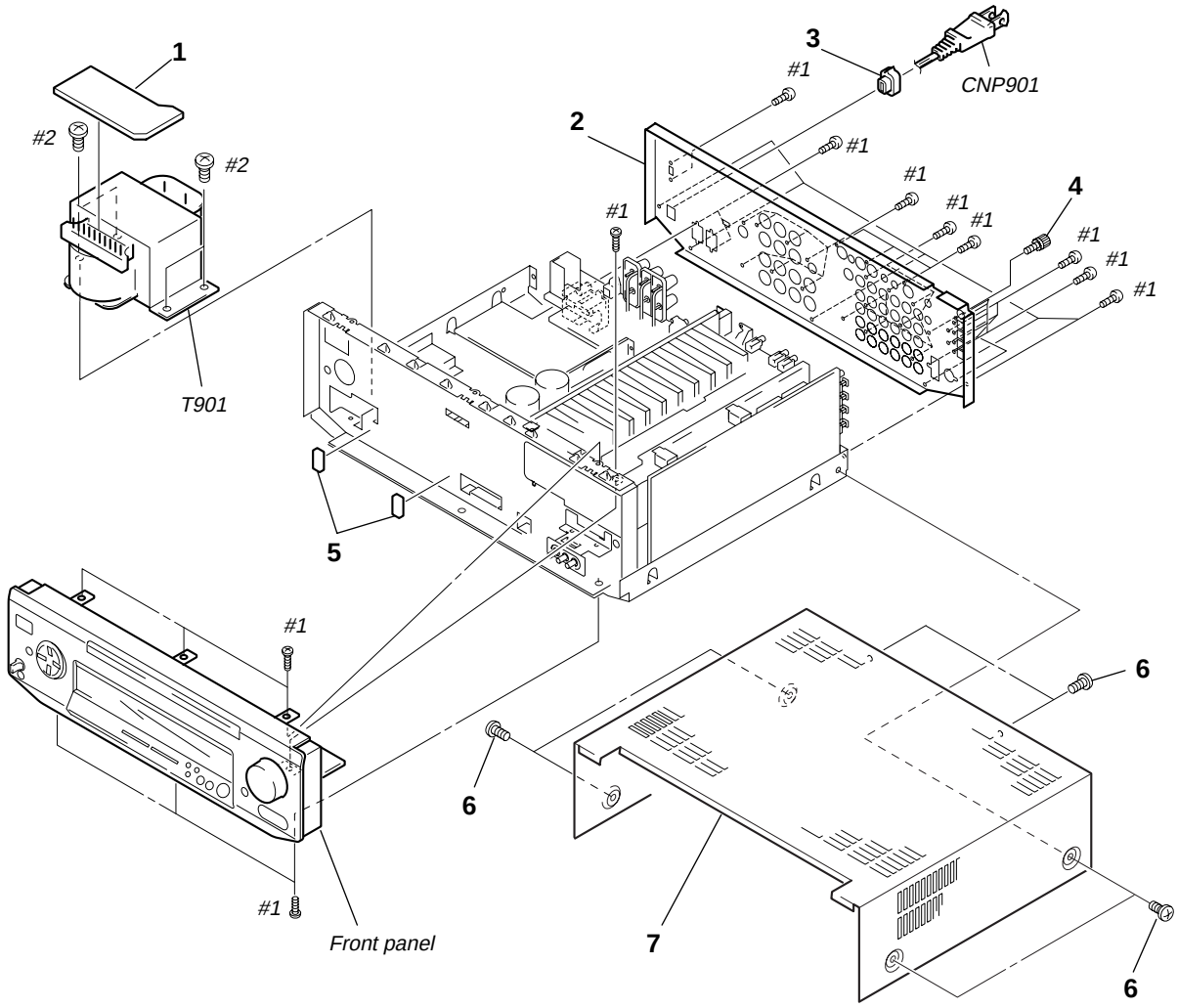
SECTION 7
EXPLODED VIEWS

NOTE:
- 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 ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

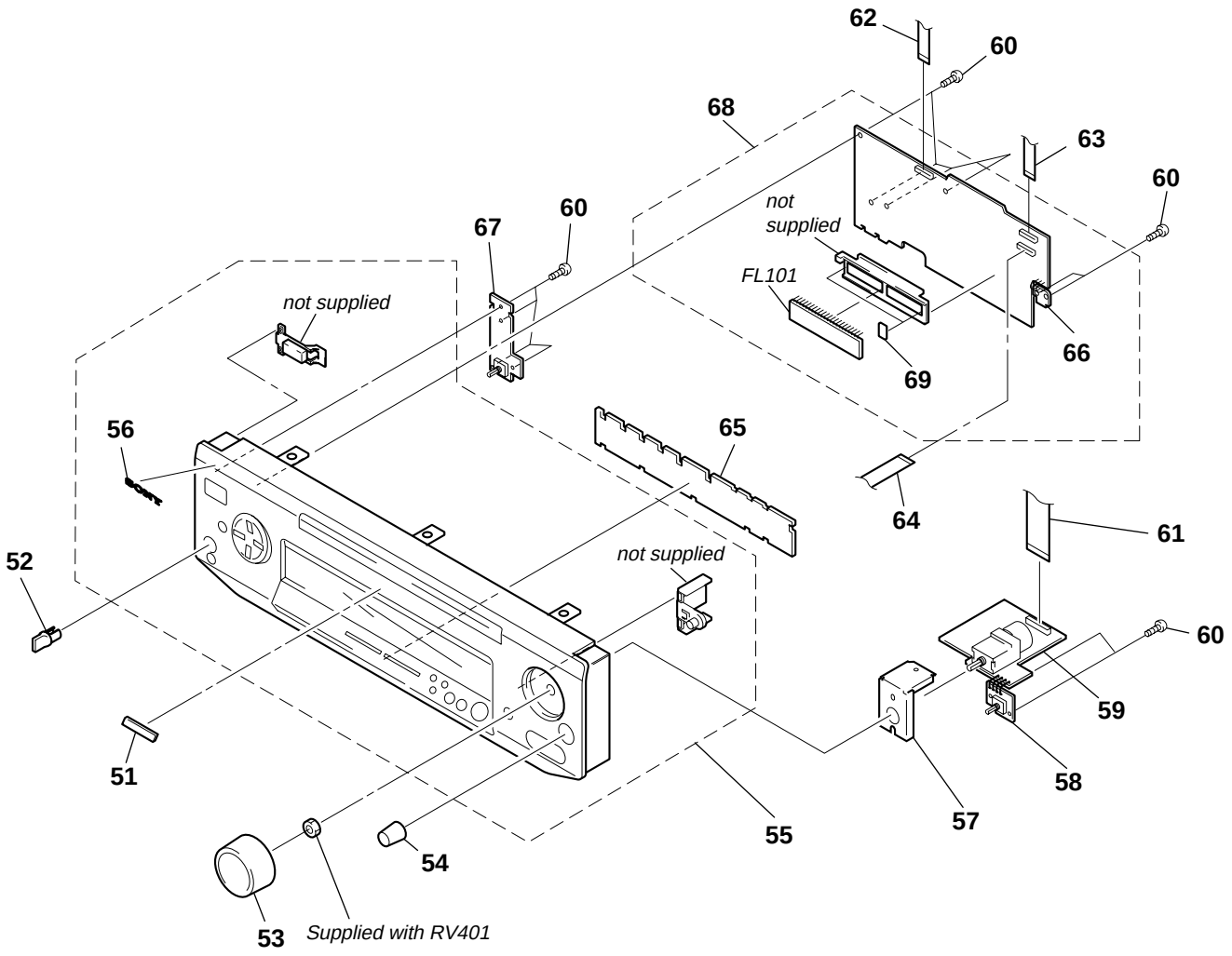
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
* 1	1-665-783-11	SECONDARY BOARD	
* 2	4-989-885-41	PANEL, BACK (US)	
* 2	4-989-885-51	PANEL, BACK (CND)	
* 3	3-703-244-00	BUSHING (2104), CORD	
4	4-947-010-01	SCREW, FEEDER FIXED	
5	4-985-642-01	CUSHION	
6	3-704-366-01	SCREW (CASE)(M3X8)	
* 7	4-982-682-01	CASE (414532)	
⚠CNP901	1-769-743-11	CORD, POWER	
⚠T901	1-431-281-11	TRANSFORMER, POWER (US)	
⚠T901	1-431-282-11	TRANSFORMER, POWER (CND)	

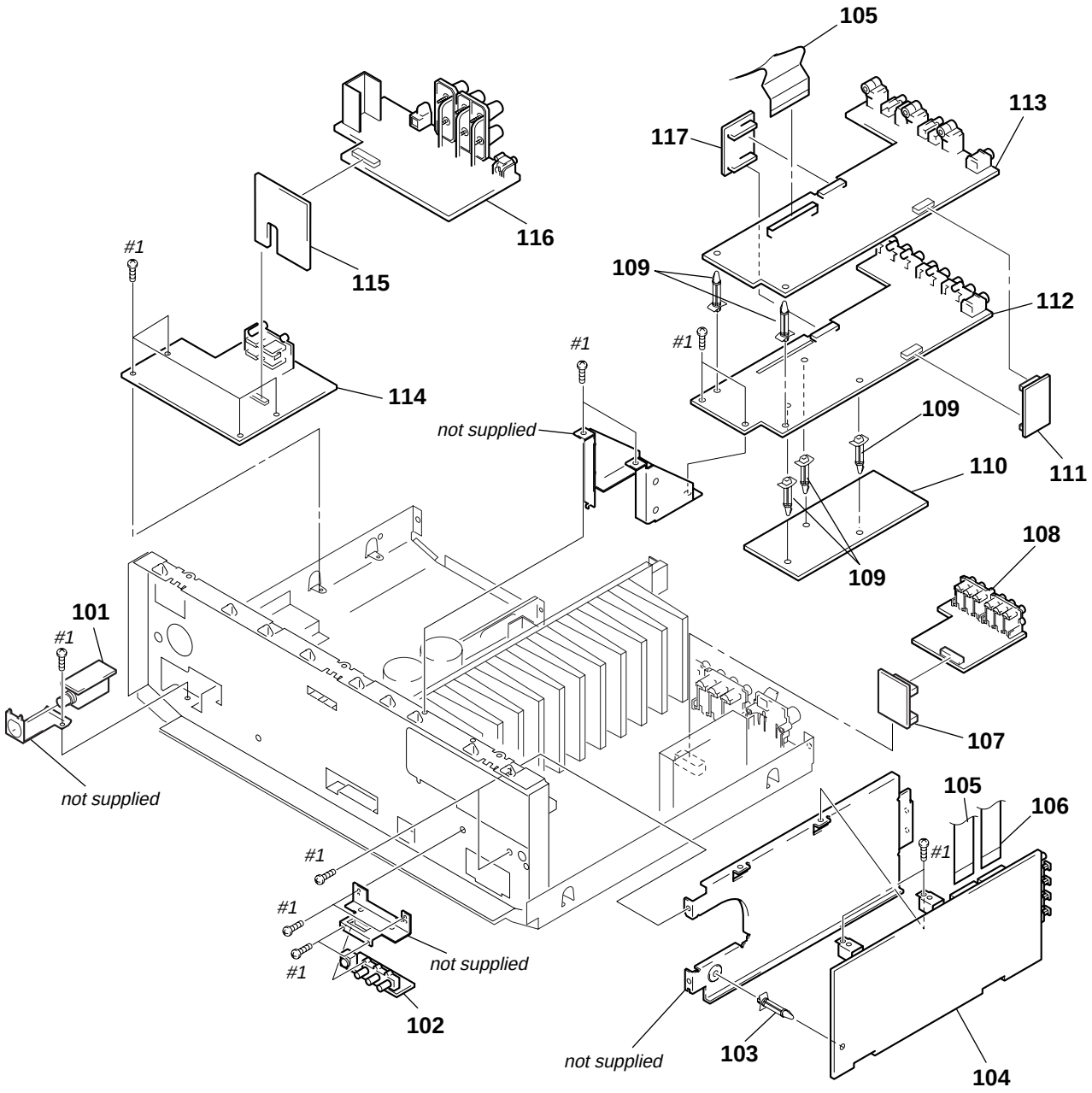
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-991-066-01	EMBLEM, VISION TOUCH	
52	4-957-383-01	KNOB (F14)	
53	X-4947-074-1	KNOB (R48) ASSY	
54	4-980-639-01	KNOB (R14)	
55	X-4948-454-1	PANEL ASSY, FRONT	
56	3-008-600-11	EMBLEM (5-AR), SONY	
* 57	4-989-878-01	BRACKET (VOL)	
* 58	1-665-815-11	BALANCE BOARD	
* 59	1-665-774-11	VOLUME BOARD	
60	4-951-620-01	SCREW (2.6X8), +BVTP	

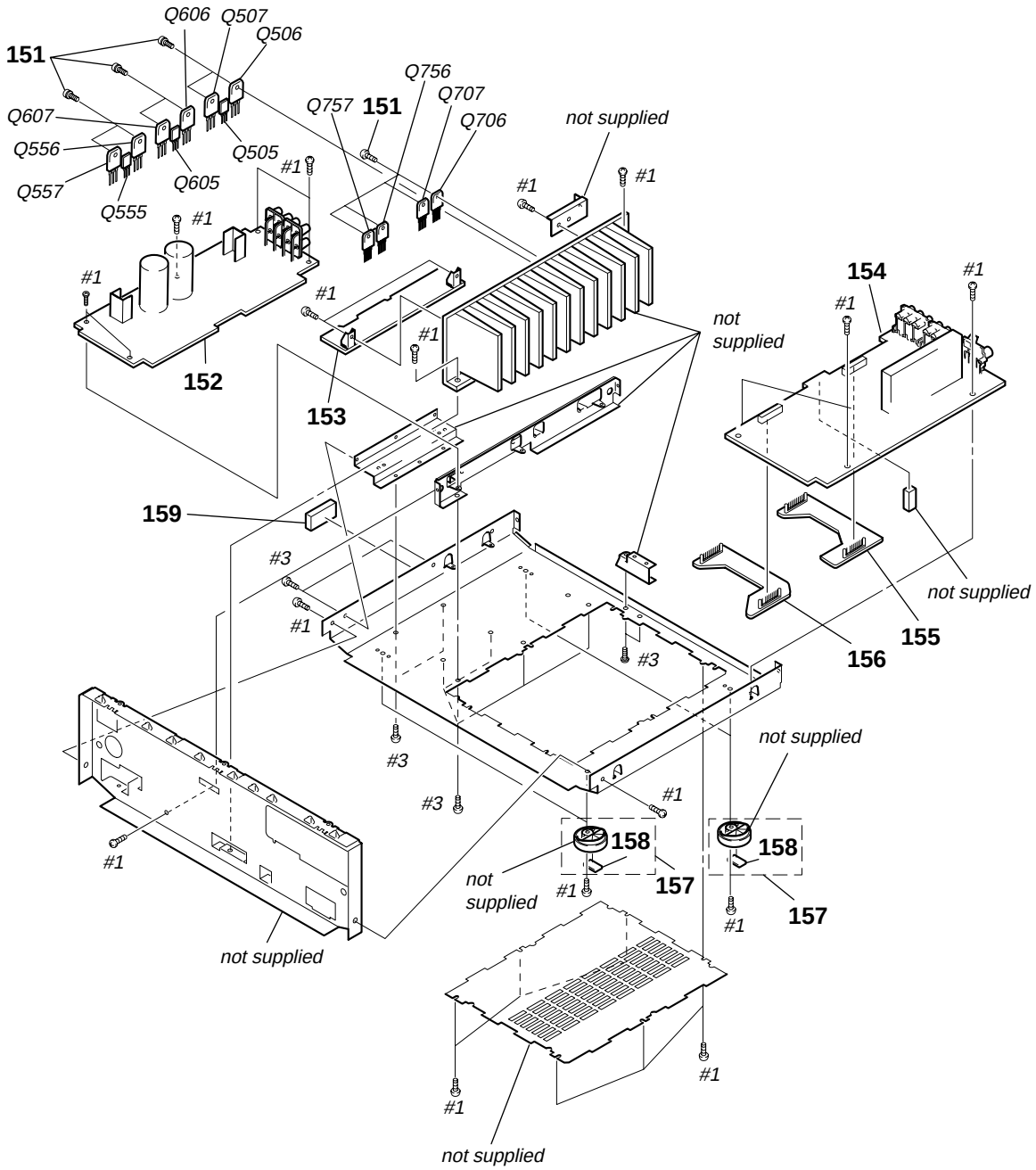
Ref. No.	Part No.	Description	Remark
61	1-773-107-11	WIRE (FLAT TYPE)(19 CORE)(90mm)	
62	1-773-116-11	WIRE (FLAT TYPE)(19 CORE)(170mm)	
63	1-775-173-11	WIRE (FLAT TYPE)(17 CORE)(410mm)	
64	1-773-174-11	WIRE (FLAT TYPE)(21 CORE)(420mm)	
* 65	1-665-780-11	SW BOARD	
* 66	1-665-814-11	L. B SW BOARD	
* 67	1-665-775-11	SP SW BOARD	
* 68	A-4398-253-A	DISPLAY BOARD, COMPLETE	
* 69	4-921-941-01	CUSHION (FL)	
FL101	1-517-671-11	INDICATOR TUBE, FLUORESCENT	

7-3. OSD BOARD SECTION



Ref. No.	Part No.	Description	Remark
* 101	1-665-779-11	HEADPHONE BOARD	
* 102	1-665-777-11	VIDEO3 BOARD	
* 103	4-954-051-41	HOLDER, PC BOARD	
* 104	A-4403-422-A	DIGITAL BOARD, COMPLETE	
105	1-773-279-11	WIRE (FLAT TYPE)(29 CORE)(90mm)	
106	1-773-174-11	WIRE (FLAT TYPE)(21 CORE)(420mm)	
* 107	1-665-776-11	SUR-AUDIO2F BOARD	
* 108	1-665-786-11	AUDIO2F BOARD	
* 109	3-703-353-07	SUPPORT, PC BOARD	
* 110	1-665-796-11	MEMORY BOARD	
* 111	1-666-632-11	JOINT (B) BOARD	
* 112	A-4398-271-A	OSD (V) BOARD, COMPLETE	
* 113	A-4398-272-A	OSD (S) BOARD, COMPLETE	
* 114	A-4398-261-A	PS BOARD, COMPLETE	
* 115	1-665-787-11	S-A-P BOARD	
* 116	A-4398-262-A	SP (2F) BOARD, COMPLETE	
* 117	1-666-159-11	JOINT (OSD) BOARD	

7-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
151	3-905-609-01	SCREW (TRANSISTOR)	
* 152	A-4398-267-A	AMP BOARD, COMPLETE	
* 153	A-4398-258-A	REAR AMP BOARD, COMPLETE	
* 154	A-4398-266-A	SUR BOARD, COMPLETE	
* 155	1-665-792-11	AMP JOINT (B) BOARD	
* 156	1-665-791-11	AMP JOINT (F) BOARD	
157	X-4947-208-1	FOOT ASSY (F50150S)	
158	4-977-358-11	CUSHION (8X12.5)	
159	3-831-441-99	CUSHION, STOPPER	
Q505	8-729-209-15	TRANSISTOR 2SD2012	
Q506	8-749-010-25	IC MN2488-OPY-M	
Q507	8-749-010-26	IC MP1620-OPY-M	
Q555	8-729-209-15	TRANSISTOR 2SD2012	
Q556	8-749-010-25	IC MN2488-OPY-M	
Q557	8-749-010-26	IC MP1620-OPY-M	
Q605	8-729-209-15	TRANSISTOR 2SD2012	
Q606	8-749-010-25	IC MN2488-OPY-M	
Q607	8-749-010-26	IC MP1620-OPY-M	
Q706	8-749-010-25	IC MN2488-OPY-M	
Q707	8-749-010-26	IC MP1620-OPY-M	
Q756	8-749-010-25	IC MN2488-OPY-M	
Q757	8-749-010-26	IC MP1620-OPY-M	

SECTION 8
ELECTRICAL PARTS LIST

AMP

Note:

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

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

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

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: µ , for example:
  uA...: µ A..., uPA...: µ PA..., uPB...: µ PB..., uPC...: µ PC..., uPD...: µ PD...
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H
- Abbreviation
  CND : Canadian model

Ref. No.	Part No.	Description			Remark
*	A-4398-267-A	AMP BOARD, COMPLETE			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C520	1-126-967-11	ELECT	47uF	20%	16V
C521	1-107-597-11	CERAMIC	22PF	10%	500V
C522	1-107-597-11	CERAMIC	22PF	10%	500V
C523	1-162-286-31	CERAMIC	220PF	10%	50V
C524	1-126-964-11	ELECT	10uF	20%	50V
C525	1-136-157-00	FILM	0.022uF	5%	50V
C526	1-136-153-00	FILM	0.01uF	5%	50V
C570	1-126-967-11	ELECT	47uF	20%	16V
C571	1-107-597-11	CERAMIC	22PF	10%	500V
C572	1-107-597-11	CERAMIC	22PF	10%	500V
C573	1-162-286-31	CERAMIC	220PF	10%	50V
C574	1-126-964-11	ELECT	10uF	20%	50V
C575	1-136-157-00	FILM	0.022uF	5%	50V
C576	1-136-153-00	FILM	0.01uF	5%	50V
C590	1-126-935-11	ELECT	470uF	20%	6.3V
C598	1-126-965-11	ELECT	22uF	20%	50V
C620	1-126-967-11	ELECT	47uF	20%	16V
C621	1-107-597-11	CERAMIC	22PF	10%	500V
C622	1-107-597-11	CERAMIC	22PF	10%	500V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C803	1-109-932-11	ELECT	10000uF	20%	71V
C804	1-109-932-11	ELECT	10000uF	20%	71V
C807	1-126-967-11	ELECT	47uF	20%	16V
C808	1-126-967-11	ELECT	47uF	20%	16V
C810	1-126-967-11	ELECT	47uF	20%	16V
C811	1-126-952-11	ELECT	1000uF	20%	35V
C812	1-126-951-11	ELECT	470uF	20%	35V
C817	1-126-967-11	ELECT	47uF	20%	50V
C818	1-126-967-11	ELECT	47uF	20%	50V
		< CONNECTOR >			
CNP701	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNP702	1-695-091-11	PIN, CONNECTOR (PC BOARD) 15P			
CNS502	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNS602	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNS701	1-569-323-11	SOCKET, CONNECTOR 19P			
		< DIODE >			
D501	8-719-987-63	DIODE 1N4148M			
D502	8-719-010-06	DIODE UZ-2.2BS			
D503	8-719-010-06	DIODE UZ-2.2BS			
D504	8-719-987-63	DIODE 1N4148M			
D505	8-719-987-63	DIODE 1N4148M			
D506	8-719-987-63	DIODE 1N4148M			
D507	8-719-987-63	DIODE 1N4148M			
D508	8-719-987-63	DIODE 1N4148M			
D512	8-719-987-63	DIODE 1N4148M			
D545	8-719-987-63	DIODE 1N4148M			
D546	8-719-987-63	DIODE 1N4148M			
D547	8-719-987-63	DIODE 1N4148M			
D548	8-719-815-85	DIODE 1S1585			
D549	8-719-815-85	DIODE 1S1585			
D551	8-719-987-63	DIODE 1N4148M			
D552	8-719-010-06	DIODE UZ-2.2BS			
D553	8-719-010-06	DIODE UZ-2.2BS			
D554	8-719-987-63	DIODE 1N4148M			
D555	8-719-987-63	DIODE 1N4148M			
D556	8-719-987-63	DIODE 1N4148M			
D601	8-719-987-63	DIODE 1N4148M			
D602	8-719-010-06	DIODE UZ-2.2BS			
D603	8-719-010-06	DIODE UZ-2.2BS			
D604	8-719-987-63	DIODE 1N4148M			
D608	8-719-987-63	DIODE 1N4148M			
D611	8-719-987-63	DIODE 1N4148M			
D647	8-719-987-63	DIODE 1N4148M			
D648	8-719-987-63	DIODE 1N4148M			
D651	8-719-987-63	DIODE 1N4148M			
D711	8-719-987-63	DIODE 1N4148M			
D716	8-719-987-63	DIODE 1N4148M			
D807	8-719-002-73	DIODE UZL-36M			
		< GROUND TERMINAL >			
* EB701	1-537-738-21	TERMINAL, EARTH			
* EB702	1-537-738-21	TERMINAL, EARTH			
* EB703	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC801	8-759-391-87	IC BA78M12P			
IC802	8-759-391-87	IC BA78M12P			
IC803	8-759-604-45	IC M5F79M12			
		< COIL >			
L501	1-420-872-00	COIL, AIR-CORE			
L551	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q505	8-729-209-15	TRANSISTOR 2SD2012			
Q506	8-749-010-25	IC MN2488-OPY-M			
Q507	8-749-010-26	IC MP1620-OPY-M			

AMP | AMP JOINT (B)

Ref. No.	Part No.	Description	Remark
Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q509	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q510	8-729-900-63	TRANSISTOR DTA124ES	
Q511	8-729-900-63	TRANSISTOR DTA124ES	
Q546	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q548	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q554	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q555	8-729-209-15	TRANSISTOR 2SD2012	
Q556	8-749-010-25	IC MN2488-OPY-M	
Q557	8-749-010-26	IC MP1620-OPY-M	
Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q559	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q560	8-729-900-63	TRANSISTOR DTA124ES	
Q561	8-729-900-63	TRANSISTOR DTA124ES	
Q596	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q605	8-729-209-15	TRANSISTOR 2SD2012	
Q606	8-749-010-25	IC MN2488-OPY-M	
Q607	8-749-010-26	IC MP1620-OPY-M	
Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q610	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q612	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q613	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q614	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q615	8-729-900-36	TRANSISTOR DTC124ES	
Q616	8-729-900-36	TRANSISTOR DTC124ES	
Q617	8-729-900-36	TRANSISTOR DTC124ES	
Q618	8-729-900-63	TRANSISTOR DTA124ES	
Q801	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R521	1-249-437-11	CARBON 47K 5% 1/4W	
R522	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R523	1-249-414-11	CARBON 560 5% 1/4W	F
⚠R524	1-249-408-11	CARBON 180 5% 1/4W	F
⚠R525	1-249-408-11	CARBON 180 5% 1/4W	F
⚠R526	1-233-352-41	ENCAPSULATED COMPONENT	
R527	1-247-850-11	CARBON 6.2K 5% 1/4W	
R528	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R529	1-247-866-11	CARBON 30K 5% 1/4W	
R530	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R531	1-249-433-11	CARBON 22K 5% 1/4W	
R532	1-249-437-11	CARBON 47K 5% 1/4W	
⚠R533	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R534	1-249-389-11	CARBON 4.7 5% 1/4W	F
R535	1-249-431-11	CARBON 15K 5% 1/4W	
R536	1-249-441-11	CARBON 100K 5% 1/4W	
R539	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R540	1-249-417-11	CARBON 1K 5% 1/4W	F
R541	1-249-429-11	CARBON 10K 5% 1/4W	
R547	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R548	1-249-429-11	CARBON 10K 5% 1/4W	
⚠R549	1-249-393-11	CARBON 10 5% 1/4W	F
R550	1-249-429-11	CARBON 10K 5% 1/4W	
R571	1-249-437-11	CARBON 47K 5% 1/4W	
R572	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R573	1-249-414-11	CARBON 560 5% 1/4W	F
⚠R574	1-249-408-11	CARBON 180 5% 1/4W	F
⚠R575	1-249-408-11	CARBON 180 5% 1/4W	F
⚠R576	1-233-352-41	ENCAPSULATED COMPONENT	
R577	1-247-850-11	CARBON 6.2K 5% 1/4W	
R578	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R579	1-247-866-11	CARBON 30K 5% 1/4W	
R580	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R581	1-249-433-11	CARBON 22K 5% 1/4W	
R582	1-249-437-11	CARBON 47K 5% 1/4W	
⚠R583	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R584	1-249-389-11	CARBON 4.7 5% 1/4W	F
R585	1-249-431-11	CARBON 15K 5% 1/4W	
R586	1-249-429-11	CARBON 10K 5% 1/4W	
R587	1-249-425-11	CARBON 4.7K 5% 1/4W	F
⚠R588	1-249-393-11	CARBON 10 5% 1/4W	F
R597	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R621	1-249-437-11	CARBON 47K 5% 1/4W	
R622	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R623	1-249-414-11	CARBON 560 5% 1/4W	F
⚠R624	1-249-408-11	CARBON 180 5% 1/4W	F
⚠R625	1-249-408-11	CARBON 180 5% 1/4W	F
⚠R626	1-233-352-41	ENCAPSULATED COMPONENT	
R627	1-247-850-11	CARBON 6.2K 5% 1/4W	
R628	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R632	1-249-437-11	CARBON 47K 5% 1/4W	
⚠R640	1-216-450-00	METAL OXIDE 82 5% 2W	F
R641	1-249-441-11	CARBON 100K 5% 1/4W	
⚠R642	1-215-889-00	METAL OXIDE 330 5% 2W	F
R643	1-249-441-11	CARBON 100K 5% 1/4W	
⚠R644	1-215-890-11	METAL OXIDE 470 5% 2W	F
R645	1-249-441-11	CARBON 100K 5% 1/4W	
R650	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R651	1-249-429-11	CARBON 10K 5% 1/4W	
R652	1-249-393-11	CARBON 10 5% 1/4W	F
⚠R739	1-215-868-00	METAL OXIDE 680 5% 1W	F
⚠R789	1-215-868-00	METAL OXIDE 680 5% 1W	F
⚠R802	1-249-381-11	CARBON 1 5% 1/4W	F
R803	1-247-843-11	CARBON 3.3K 5% 1/4W	
		< RELAY >	
RY501	1-515-920-11	RELAY (24V)	
RY502	1-515-920-11	RELAY (24V)	
RY602	1-515-793-11	RELAY	
		< TERMINAL >	
* TM501	1-537-699-11	TERMINAL BOARD (SP)(FRONT SPEAKERS)	
**********			
*	1-665-792-11	AMP JOINT (B) BOARD	
		**********	
		< CONNECTOR >	
CNP601	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	
CNP602	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	
**********			

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

Ref. No.	Part No.	Description				Remark
*	1-665-791-11	AMP JOINT (F) BOARD				
		**********				
		< CONNECTOR >				
CNP501	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P				
CNP502	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P				
**********						
*	1-665-786-11	AUDIO2F BOARD				
		**********				
		< CAPACITOR >				
C398	1-162-282-31	CERAMIC	100PF	10%	50V	
C399	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CONNECTOR >				
CNS302	1-695-093-11	SOCKET, CONNECTOR 9P				
		< IC >				
IC303	8-759-805-14	IC LC7822				
		< JACK >				
J304	1-766-394-11	JACK, PIN 6P (VIDEO 1 AUDIO IN/OUT, VIDEO 2 AUDIO IN)				
J305	1-766-394-11	JACK, PIN 6P (VIDEO 2 AUDIO OUT, LD/DVD AUDIO IN, TV/DBS AUDIO IN)				
		< RESISTOR >				
R318	1-249-417-11	CARBON	1K	5%	1/4W F	
R319	1-249-417-11	CARBON	1K	5%	1/4W F	
R320	1-249-417-11	CARBON	1K	5%	1/4W F	
R321	1-249-417-11	CARBON	1K	5%	1/4W F	
R322	1-249-417-11	CARBON	1K	5%	1/4W F	
R323	1-249-417-11	CARBON	1K	5%	1/4W F	
R368	1-249-417-11	CARBON	1K	5%	1/4W F	
R369	1-249-417-11	CARBON	1K	5%	1/4W F	
R370	1-249-417-11	CARBON	1K	5%	1/4W F	
R371	1-249-417-11	CARBON	1K	5%	1/4W F	
R372	1-249-417-11	CARBON	1K	5%	1/4W F	
R373	1-249-417-11	CARBON	1K	5%	1/4W F	
R398	1-249-417-11	CARBON	1K	5%	1/4W F	
R399	1-249-425-11	CARBON	4.7K	5%	1/4W F	
**********						
*	1-665-815-11	BALANCE BOARD				
		**********				
		< VARIABLE RESISTOR >				
RV402	1-225-447-11	RES, VAR, CARBON 100K/100K (BALANCE)				
**********						

Ref. No.	Part No.	Description			
*	A-4403-422-A	DIGITAL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C3101	1-126-964-11	ELECT	10uF	20%	50V
C3102	1-126-964-11	ELECT	10uF	20%	50V
C3103	1-130-467-00	MYLAR	470PF	5%	50V
C3104	1-130-467-00	MYLAR	470PF	5%	50V
C3105	1-126-964-11	ELECT	10uF	20%	50V
C3106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3107	1-106-351-00	MYLAR	2200PF	5%	200V
C3108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3110	1-104-665-11	ELECT	100uF	20%	25V
C3111	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C3112	1-126-964-11	ELECT	10uF	20%	50V
C3113	1-126-964-11	ELECT	10uF	20%	50V
C3114	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C3115	1-126-967-11	ELECT	47uF	20%	16V
C3116	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3117	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3118	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C3119	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C3120	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3122	1-104-665-11	ELECT	100uF	20%	25V
C3151	1-126-964-11	ELECT	10uF	20%	50V
C3152	1-126-964-11	ELECT	10uF	20%	50V
C3153	1-130-467-00	MYLAR	470PF	5%	50V
C3154	1-130-467-00	MYLAR	470PF	5%	50V
C3155	1-126-964-11	ELECT	10uF	20%	50V
C3156	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3157	1-106-351-00	MYLAR	2200PF	5%	200V
C3158	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3160	1-104-665-11	ELECT	100uF	20%	25V
C3161	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C3162	1-126-964-11	ELECT	10uF	20%	50V
C3163	1-126-964-11	ELECT	10uF	20%	50V
C3164	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C3166	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3301	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3302	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3304	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C3305	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C3307	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3309	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3310	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3311	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3314	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3315	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C3316	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C3320	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C3321	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3322	1-163-248-11	CERAMIC CHIP	75PF	5%	50V
C3323	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C3324	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3325	1-165-319-11	CERAMIC CHIP	0.1uF		50V

DIGITAL

Ref. No.	Part No.	Description			Remark
C3326	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3327	1-136-921-11	FILM	1uF	5%	50V
C3328	1-136-921-11	FILM	1uF	5%	50V
C3330	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3331	1-104-665-11	ELECT	100uF	20%	25V
C3332	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3333	1-126-967-11	ELECT	47uF	20%	16V
C3334	1-130-495-00	MYLAR	0.1uF	5%	50V
C3336	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3337	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C3338	1-163-085-00	CERAMIC CHIP	2PF		50V
C3339	1-126-964-11	ELECT	10uF	20%	50V
C3340	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3341	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3342	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3345	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3346	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3347	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3348	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3351	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3352	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3353	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3354	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3355	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3401	1-104-665-11	ELECT	100uF	20%	25V
C3402	1-104-665-11	ELECT	100uF	20%	25V
C3403	1-104-665-11	ELECT	100uF	20%	25V
C3404	1-104-665-11	ELECT	100uF	20%	25V
C3407	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3408	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3409	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C3410	1-130-483-00	MYLAR	0.01uF	5%	50V
C3411	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C3412	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3413	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C3414	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3415	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3416	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3417	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3418	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3419	1-104-665-11	ELECT	100uF	20%	25V
C3420	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3421	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3422	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3423	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3424	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3425	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3426	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3427	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3429	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3430	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3431	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3432	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3433	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3434	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3435	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3436	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C3438	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3439	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3440	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3441	1-126-964-11	ELECT	10uF	20%	50V
C3442	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C3443	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3444	1-126-933-11	ELECT	100uF	20%	16V
C3447	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3471	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3472	1-130-490-11	MYLAR	0.039uF	5%	50V
C3475	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3476	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3477	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3478	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3479	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3480	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3481	1-126-965-11	ELECT	22uF	20%	50V
C3482	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3483	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3484	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C3485	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3486	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3487	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3488	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3489	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3490	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C3491	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3492	1-126-965-11	ELECT	22uF	20%	50V
C3493	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3494	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3495	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3496	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3497	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3498	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3499	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3500	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3501	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3502	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3503	1-110-339-11	MYLAR	220PF	5%	50V
C3504	1-110-339-11	MYLAR	220PF	5%	50V
C3505	1-110-339-11	MYLAR	220PF	5%	50V
C3506	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3507	1-126-964-11	ELECT	10uF	20%	50V
C3508	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3509	1-110-339-11	MYLAR	220PF	5%	50V
C3510	1-130-477-00	MYLAR	0.0033uF	5%	50V
C3511	1-130-469-00	MYLAR	680PF	5%	50V
C3512	1-110-339-11	MYLAR	220PF	5%	50V
C3513	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3514	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3515	1-110-339-11	MYLAR	220PF	5%	50V
C3516	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3517	1-110-339-11	MYLAR	220PF	5%	50V
C3518	1-110-339-11	MYLAR	220PF	5%	50V
C3519	1-130-477-00	MYLAR	0.0033uF	5%	50V
C3520	1-130-469-00	MYLAR	680PF	5%	50V
C3521	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3525	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C3526	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3527	1-126-964-11	ELECT	10uF	20%	50V
C3531	1-126-964-11	ELECT	10uF	20%	50V
C3532	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3533	1-110-339-11	MYLAR	220PF	5%	50V
C3534	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3535	1-110-339-11	MYLAR	220PF	5%	50V
C3536	1-110-339-11	MYLAR	220PF	5%	50V
C3537	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3538	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3539	1-110-339-11	MYLAR	220PF	5%	50V
C3540	1-130-477-00	MYLAR	0.0033uF	5%	50V
C3541	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3542	1-130-469-00	MYLAR	680PF	5%	50V
C3543	1-110-339-11	MYLAR	220PF	5%	50V
C3544	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3545	1-130-469-00	MYLAR	680PF	5%	50V
C3546	1-130-477-00	MYLAR	0.0033uF	5%	50V
C3547	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3548	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3549	1-110-339-11	MYLAR	220PF	5%	50V
C3550	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3551	1-110-339-11	MYLAR	220PF	5%	50V
C3552	1-110-339-11	MYLAR	220PF	5%	50V
C3553	1-110-339-11	MYLAR	220PF	5%	50V
C3554	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3555	1-110-339-11	MYLAR	220PF	5%	50V
C3556	1-110-339-11	MYLAR	220PF	5%	50V
C3557	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3558	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3559	1-110-339-11	MYLAR	220PF	5%	50V
C3560	1-130-477-00	MYLAR	0.0033uF	5%	50V
C3561	1-130-469-00	MYLAR	680PF	5%	50V
C3562	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3563	1-110-339-11	MYLAR	220PF	5%	50V
C3564	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3565	1-130-477-00	MYLAR	0.0033uF	5%	50V
C3566	1-130-469-00	MYLAR	680PF	5%	50V
C3567	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3568	1-110-339-11	MYLAR	220PF	5%	50V
C3569	1-110-339-11	MYLAR	220PF	5%	50V
C3570	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3571	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3572	1-110-339-11	MYLAR	220PF	5%	50V
C3573	1-126-964-11	ELECT	10uF	20%	50V
C3574	1-126-964-11	ELECT	10uF	20%	50V
C3575	1-126-964-11	ELECT	10uF	20%	50V
C3576	1-126-964-11	ELECT	10uF	20%	50V
C3577	1-126-964-11	ELECT	10uF	20%	50V
C3578	1-126-964-11	ELECT	10uF	20%	50V
C3579	1-126-964-11	ELECT	10uF	20%	50V
C3580	1-126-964-11	ELECT	10uF	20%	50V
C3581	1-126-964-11	ELECT	10uF	20%	50V
C3582	1-126-964-11	ELECT	10uF	20%	50V
C3583	1-126-964-11	ELECT	10uF	20%	50V
C3584	1-126-964-11	ELECT	10uF	20%	50V
C3585	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3586	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3587	1-126-965-11	ELECT	22uF	20%	50V
C3588	1-126-965-11	ELECT	22uF	20%	50V
C3589	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3600	1-126-965-11	ELECT	22uF	20%	50V
C3605	1-126-965-11	ELECT	22uF	20%	50V
C3606	1-126-965-11	ELECT	22uF	20%	50V
C3607	1-126-965-11	ELECT	22uF	20%	50V
C3608	1-126-965-11	ELECT	22uF	20%	50V
C3609	1-126-965-11	ELECT	22uF	20%	50V
C3621	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3650	1-130-467-00	MYLAR	470PF	5%	50V
C3653	1-130-467-00	MYLAR	470PF	5%	50V
C3656	1-130-467-00	MYLAR	470PF	5%	50V
C3659	1-130-467-00	MYLAR	470PF	5%	50V
C3662	1-130-467-00	MYLAR	470PF	5%	50V
C3665	1-130-467-00	MYLAR	470PF	5%	50V

< CONNECTOR >

CN3301	1-569-309-11	SOCKET, CONNECTOR (L TYRE) 21P
CN3302	1-569-309-11	SOCKET, CONNECTOR (L TYRE) 21P
CN3303	1-691-767-11	PLUG (MICRO CONNECTOR) 5P
CN3304	1-691-768-11	PLUG (MICRO CONNECTOR) 6P

< DIODE >

D3303	8-719-061-62	DIODE KV1851
D3401	8-719-951-05	DIODE KV1560
D3402	8-719-801-78	DIODE 1SS184
D3404	8-719-801-78	DIODE 1SS184
D3407	8-719-820-05	DIODE 1SS181
D3409	8-719-801-78	DIODE 1SS184
D3410	8-719-801-78	DIODE 1SS184

< FERRITE BEAD >

FB3401	1-410-397-21	FERRITE BEAD INDUCTOR
FB3402	1-410-397-21	FERRITE BEAD INDUCTOR
FB3403	1-410-397-21	FERRITE BEAD INDUCTOR
FB3404	1-410-397-21	FERRITE BEAD INDUCTOR
FB3405	1-414-813-21	MICRO INDUCTOR
FB3406	1-414-813-21	MICRO INDUCTOR
FB3407	1-414-813-21	MICRO INDUCTOR

< FILTER >

FL3301	1-233-866-11	FILTER, BAND PASS

< IC >

IC3101	8-759-636-55	IC M5218AFP
IC3102	8-759-636-55	IC M5218AFP
IC3103	8-759-636-55	IC M5218AFP
IC3104	8-759-463-77	IC CXD8681M-TP
IC3105	8-759-604-35	IC M5F78M05L
IC3106	8-759-045-17	IC NJM79L05UA
IC3107	8-759-242-70	IC TC7WU04F
IC3108	8-759-233-26	IC TC74HC393AF-TP1
IC3301	8-749-923-05	IC TORX178 (DIGITAL LD/DVD IN OPTICAL)
IC3302	8-749-923-05	IC TORX178 (DIGITAL CD IN OPTICAL)

DIGITAL

Ref. No.	Part No.	Description	Remark
IC3303	8-749-923-05	IC TORX178 (DIGITAL DAT/MD IN OPTICAL)	
IC3304	8-749-923-04	IC TOTX178 (DIGITAL DAT/MD OUT OPTICAL)	
IC3305	8-759-262-03	IC MC14577CF	
IC3306	8-759-636-55	IC M5218AFP	
IC3307	8-759-045-17	IC NJM79L05UA	
IC3308	8-759-463-68	IC SN-PM4007A	
IC3309	8-759-441-94	IC IDT71256SA20Y-TL	
IC3311	8-759-326-72	IC CXD8521M	
IC3313	8-759-236-17	IC TC74HC151AF-TP1	
IC3314	8-759-242-70	IC TC7WU04F (TA)	
IC3401	8-759-370-62	IC CXD8505BQ	
IC3402	8-759-370-62	IC CXD8505BQ	
IC3403	8-759-370-62	IC CXD8505BQ	
IC3407	8-759-233-26	IC TC74HC393AF-TP1	
IC3408	8-759-233-64	IC TC74HCU04AF	
IC3409	8-759-250-81	IC TC5081AP	
IC3410	8-759-446-37	IC DSP56009FJ88F	
IC3411	8-759-436-44	IC IDT71024S20Y-TL	
IC3412	8-759-446-40	IC SSP424023FJ88	
IC3413	8-759-460-87	IC MB90641APF-G-101-BND	
IC3414	8-759-232-65	IC TC74HC157AF	
IC3417	8-759-233-64	IC TC74HCU04AF	
IC3425	8-759-242-70	IC TC7WU04F	
IC3501	8-759-636-55	IC M5218AFP	
IC3502	8-759-636-55	IC M5218AFP	
IC3503	8-759-636-55	IC M5218AFP	
IC3504	8-759-636-55	IC M5218AFP	
IC3505	8-759-636-55	IC M5218AFP	
IC3506	8-759-636-55	IC M5218AFP	
IC3507	8-759-636-55	IC M5218AFP	
IC3508	8-759-636-55	IC M5218AFP	
IC3509	8-759-636-55	IC M5218AFP	
IC3510	8-759-636-55	IC M5218AFP	
IC3511	8-759-636-55	IC M5218AFP	
IC3512	8-759-636-55	IC M5218AFP	
IC3513	8-759-636-55	IC M5218AFP	
IC3514	8-759-636-55	IC M5218AFP	
IC3515	8-759-636-55	IC M5218AFP	
IC3516	8-759-463-71	IC LC7535M-TP	
IC3517	8-759-463-71	IC LC7535M-TP	
		< JACK >	
J3302	1-779-701-11	JACK, PIN 1P (DIGITAL LD/DVD IN AC-3 RF)	
		< COIL >	
L3301	1-410-391-11	INDUCTOR CHIP 68uH	
L3401	1-426-850-11	COIL (RF)	
L3402	1-410-381-11	INDUCTOR CHIP 10uH	
L3403	1-410-381-11	INDUCTOR CHIP 10uH	
L3404	1-410-381-11	INDUCTOR CHIP 10uH	
L3405	1-410-381-11	INDUCTOR CHIP 10uH	
		< TRANSISTOR >	
Q3301	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3302	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3305	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3306	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3307	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q3308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3309	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q3310	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3311	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q3312	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3313	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q3314	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3315	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q3401	8-729-232-11	TRANSISTOR 2SK302-GR-TE85L	
Q3402	8-729-232-11	TRANSISTOR 2SK302-GR-TE85L	
Q3403	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3404	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3405	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3406	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q3407	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q3501	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3502	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3503	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3504	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3505	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3506	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3511	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3512	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3513	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3514	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3515	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3516	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3517	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3518	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3519	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3520	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3521	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q3522	8-729-107-46	TRANSISTOR 2SC3624A-L15	
		< RESISTOR >	
R3100	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R3101	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R3102	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R3103	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R3104	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R3105	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R3106	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R3107	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R3108	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R3109	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R3110	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R3111	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R3112	1-216-027-00	METAL CHIP 120 5% 1/10W	
R3113	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R3114	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3115	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3116	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R3117	1-216-041-00	METAL CHIP 470 5% 1/10W	
R3118	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R3119	1-216-025-91	METAL GLAZE 100 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R3120	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3121	1-216-043-91	METAL GLAZE	560	5%	1/10W
R3123	1-216-041-00	METAL CHIP	470	5%	1/10W
R3124	1-216-041-00	METAL CHIP	470	5%	1/10W
R3150	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3151	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3152	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3153	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3154	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R3155	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3156	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3157	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R3158	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3159	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3160	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3161	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3162	1-216-027-00	METAL CHIP	120	5%	1/10W
R3163	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3301	1-216-022-00	METAL CHIP	75	5%	1/10W
R3302	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3303	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3304	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3305	1-216-029-00	METAL CHIP	150	5%	1/10W
R3306	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3310	1-216-022-00	METAL CHIP	75	5%	1/10W
R3311	1-216-022-00	METAL CHIP	75	5%	1/10W
R3313	1-216-022-00	METAL CHIP	75	5%	1/10W
R3314	1-216-022-00	METAL CHIP	75	5%	1/10W
R3316	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3317	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3318	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3319	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3320	1-216-043-91	METAL GLAZE	560	5%	1/10W
R3321	1-216-024-00	METAL GLAZE	91	5%	1/10W
R3322	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3323	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3324	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3325	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3326	1-216-029-00	METAL CHIP	150	5%	1/10W
R3327	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3328	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3329	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3330	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3331	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R3332	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3333	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3334	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3335	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3336	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3337	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R3338	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3339	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3340	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3341	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3342	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R3343	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3344	1-216-093-00	METAL CHIP	68K	5%	1/10W
R3345	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3346	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3347	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3348	1-216-027-00	METAL CHIP	120	5%	1/10W
R3349	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3350	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3351	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3352	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3353	1-216-025-91	METAL GLAZE	100	5%	1/10W
R3354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3355	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3356	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3357	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3358	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3359	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3360	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3361	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3362	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3363	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3364	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3365	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3366	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3367	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3368	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3369	1-216-041-00	METAL CHIP	470	5%	1/10W
R3370	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3371	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3372	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3373	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3374	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3375	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3376	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3377	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3378	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3379	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3380	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3381	1-216-049-91	METAL GLAZE	1K	5%	1/10
R3382	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3383	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3384	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R3385	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3386	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3387	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3388	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3389	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3390	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3391	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3392	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3393	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3394	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3395	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3396	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3397	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3398	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3399	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3400	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3401	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R3402	1-216-049-91	METAL GLAZE	1K	5%	1/10W

DIGITAL

Ref. No.	Part No.	Description			Remark
R3403	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3404	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3405	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3406	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3407	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3408	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3409	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3410	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3411	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3412	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3413	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3414	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3415	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3416	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3417	1-216-017-91	METAL GLAZE	47	5%	1/10W
R3418	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3419	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3421	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3422	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3423	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3424	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3425	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3426	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3427	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3428	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3429	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3430	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3431	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3432	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3433	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3434	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3435	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3436	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3437	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3438	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3439	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3440	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3441	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3442	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3443	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3444	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3445	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3446	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3447	1-216-041-00	METAL CHIP	470	5%	1/10W
R3448	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3449	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3450	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3451	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3452	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3453	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3454	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3455	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3456	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3457	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3458	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3459	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3460	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R3461	1-216-295-91	CONDUCTOR, CHIP (2012)			

Ref. No.	Part No.	Description			Remark
R3462	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3465	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3466	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3479	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3480	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3501	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R3502	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3503	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3504	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3505	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3506	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3507	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3508	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3509	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3510	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3511	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3512	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R3513	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3514	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3515	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R3516	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3517	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3518	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3519	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3520	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3521	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R3522	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3523	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R3524	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R3525	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R3526	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3527	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3528	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3529	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3530	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3531	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3532	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3533	1-216-109-00	METAL CHIP	330K	5%	1/10W
R3534	1-216-109-00	METAL CHIP	330K	5%	1/10W
R3535	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R3536	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R3537	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R3538	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3539	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3540	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R3541	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3542	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3543	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3544	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3545	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3546	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3547	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3548	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3549	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3550	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3551	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3552	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R3553	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3554	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3555	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3556	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3557	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3558	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3559	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3560	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3561	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R3562	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3563	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3564	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R3565	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3566	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3567	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3568	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3569	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3570	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3571	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3572	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3573	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3574	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3575	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3576	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R3577	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3578	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3579	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3580	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3581	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R3582	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3583	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3584	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3586	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3587	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3588	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3589	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3590	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3591	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3592	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3594	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R3595	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3596	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3597	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3598	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3599	1-216-041-00	METAL CHIP	470	5%	1/10W
R3600	1-216-041-00	METAL CHIP	470	5%	1/10W
R3601	1-216-041-00	METAL CHIP	470	5%	1/10W
R3602	1-216-041-00	METAL CHIP	470	5%	1/10W
R3603	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3604	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3605	1-216-041-00	METAL CHIP	470	5%	1/10W
R3606	1-216-041-00	METAL CHIP	470	5%	1/10W
R3607	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3608	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3609	1-216-041-00	METAL CHIP	470	5%	1/10W
R3610	1-216-041-00	METAL CHIP	470	5%	1/10W
R3611	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3612	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3613	1-216-041-00	METAL CHIP	470	5%	1/10W
R3614	1-216-041-00	METAL CHIP	470	5%	1/10W
R3615	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3616	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3617	1-216-041-00	METAL CHIP	470	5%	1/10W
R3618	1-216-041-00	METAL CHIP	470	5%	1/10W
R3619	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3620	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3621	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3622	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3623	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3627	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3628	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3631	1-216-079-00	METAL CHIP	18K	5%	1/10W
R3632	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R3633	1-216-079-00	METAL CHIP	18K	5%	1/10W
R3634	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R3635	1-216-079-00	METAL CHIP	18K	5%	1/10W
R3636	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R3637	1-216-079-00	METAL CHIP	18K	5%	1/10W
R3638	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R3639	1-216-079-00	METAL CHIP	18K	5%	1/10W
R3640	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R3641	1-216-079-00	METAL CHIP	18K	5%	1/10W
R3642	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R3650	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3651	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3652	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3653	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3654	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3655	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3656	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3657	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3658	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3659	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3660	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3661	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3662	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3663	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3664	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3665	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3666	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3667	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3668	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3669	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3670	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3671	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3672	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3673	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3674	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3675	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3676	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3677	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3678	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3679	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3680	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R3681	1-216-073-00	METAL CHIP	10K	5%	1/10W

DIGITAL DISPLAY

Ref. No.	Part No.	Description			Remark
R3682	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3683	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3684	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3701	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3702	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R3703	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3704	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3706	1-216-295-91	CONDUCTOR, CHIP (2012)			
		< VARIABLE RESISTOR >			
RV3301	1-241-765-11	RES, ADJ, CARBON 22K			
		< VIBRATOR >			
X3302	1-767-434-11	VIBRATOR, CRYSTAL (18.432MHz)			
X3401	1-767-359-11	VIBRATOR, CERAMIC (4MHz)			
X3501	1-767-576-11	VIBRATOR, CRYSTAL (12.288MHz)			
**********					
*	A-4398-253-A	DISPLAY BOARD, COMPLETE			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-990-797-01	HOLDER (FL)			
		< CAPACITOR >			
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-164-159-11	CERAMIC	0.1uF		50V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C104	1-164-159-11	CERAMIC	0.1uF		50V
C105	1-164-159-11	CERAMIC	0.1uF		50V
C106	1-164-159-11	CERAMIC	0.1uF		50V
C107	1-164-159-11	CERAMIC	0.1uF		50V
C108	1-126-796-11	ELECT	22uF	20%	50V
C109	1-162-282-31	CERAMIC	100PF	10%	50V
C110	1-126-786-11	ELECT	47uF	20%	16V
C111	1-126-786-11	ELECT	47uF	20%	16V
C112	1-162-282-31	CERAMIC	100PF	10%	50V
C113	1-126-786-11	ELECT	47uF	20%	16V
C115	1-104-905-11	CAPACITOR	0.22F		5.5V
C116	1-164-159-11	CERAMIC	0.1uF		50V
C117	1-164-159-11	CERAMIC	0.1uF		50V
C118	1-162-294-31	CERAMIC	0.001uF	10%	50V
C129	1-164-159-11	CERAMIC	0.1uF		50V
C135	1-126-795-11	ELECT	10uF	20%	50V
C140	1-126-786-11	ELECT	47uF	20%	16V
C141	1-164-159-11	CERAMIC	0.1uF		50V
C142	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP101	1-779-365-11	CONNECTOR, PC BOARD (PLUG) 8P			
CNS102	1-770-397-11	HOUSING, CONNECTOR (PC BOARD) 4P			
CNS103	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNS104	1-569-308-11	SOCKET, CONNECTOR (L TYRE) 19P			
CNS105	1-569-324-11	SOCKET, CONNECTOR 21P			
CNS107	1-568-438-11	SOCKET, CONNECTOR 17P			

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D101	8-719-313-45	DIODE SEL6810A-TH10 (PHONO)	
D102	8-719-313-45	DIODE SEL6810A-TH10 (TUNER)	
D103	8-719-313-45	DIODE SEL6810A-TH10 (CD)	
D104	8-719-313-45	DIODE SEL6810A-TH10 (DAT/MD)	
D105	8-719-313-45	DIODE SEL6810A-TH10 (TAPE)	
D106	8-719-313-45	DIODE SEL6810A-TH10 (TV/DBS)	
D107	8-719-313-45	DIODE SEL6810A-TH10 (LD/DVD)	
D108	8-719-313-45	DIODE SEL6810A-TH10 (VIDEO 3)	
D109	8-719-313-45	DIODE SEL6810A-TH10 (VIDEO 2)	
D110	8-719-313-45	DIODE SEL6810A-TH10 (VIDEO 1)	
D111	8-719-313-45	DIODE SEL6810A-TH10 (DIRECT PASS)	
D113	8-719-313-43	DIODE SEL6210S-TH10 (LEARNING SENSOR)	
D115	8-719-313-45	DIODE SEL6810A-TH10 (SUR)	
D116	8-719-313-45	DIODE SEL6810A-TH10 (EQ)	
D117	8-719-313-45	DIODE SEL6810A-TH10 (INDEX)	
D124	8-719-053-79	DIODE SE1003-C-TP	
D125	8-719-053-79	DIODE SE1003-C-TP	
D126	8-719-053-79	DIODE SE1003-C-TP	
D127	8-719-053-79	DIODE SE1003-C-TP	
D128	8-719-053-79	DIODE SE1003-C-TP	
D129	8-719-053-79	DIODE SE1003-C-TP	
D130	8-719-053-79	DIODE SE1003-C-TP	
D131	8-719-053-79	DIODE SE1003-C-TP	
D133	8-719-987-63	DIODE 1N4148M	
D134	8-719-024-99	DIODE 11ES2-NTA2B	
D135	8-719-057-97	DIODE SEL5923A-TP15 (DISCRETE)	
D136	8-719-987-63	DIODE 1N4148M	
D137	8-719-053-79	DIODE SE1003-C-TP	
D138	8-719-053-79	DIODE SE1003-C-TP	
D139	8-719-987-63	DIODE 1N4148M	
D140	8-719-118-33	PHOTO DIODE PH302D	
D142	8-719-987-63	DIODE 1N4148M	
D143	8-719-987-63	DIODE 1N4148M	
D144	8-719-987-63	DIODE 1N4148M	
		< FLUORESCENT INDICATOR >	
FL101	1-517-671-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC101	8-759-462-46	IC TPS831	
IC103	8-759-457-56	IC MB90673PF-G-206-BND	
IC104	8-759-240-69	IC TC4069UBP	
IC106	8-759-962-08	IC BA6208	
IC107	8-759-075-35	IC TD62C950RF	
IC108	8-759-999-53	IC MSC1164GS-K	
		< COIL >	
L101	1-410-509-11	INDUCTOR 10uH	
L102	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q102	8-729-140-96	TRANSISTOR 2SC4094	
Q103	8-729-900-36	TRANSISTOR DTC124ES	
Q106	8-729-900-36	TRANSISTOR DTC124ES	
Q107	8-729-900-36	TRANSISTOR DTC124ES	

Ref. No.	Part No.	Description			Remark
Q108	8-729-900-36	TRANSISTOR DTC124ES			
Q110	8-729-900-36	TRANSISTOR DTC124ES			
Q111	8-729-900-36	TRANSISTOR DTC124ES			
Q112	8-729-900-36	TRANSISTOR DTC124ES			
Q113	8-729-900-36	TRANSISTOR DTC124ES			
Q114	8-729-900-36	TRANSISTOR DTC124ES			
Q115	8-729-900-36	TRANSISTOR DTC124ES			
Q116	8-729-900-36	TRANSISTOR DTC124ES			
Q117	8-729-900-36	TRANSISTOR DTC124ES			
Q118	8-729-900-36	TRANSISTOR DTC124ES			
Q119	8-729-900-36	TRANSISTOR DTC124ES			
Q120	8-729-900-36	TRANSISTOR DTC124ES			
Q121	8-729-900-36	TRANSISTOR DTC124ES			
Q122	8-729-900-36	TRANSISTOR DTC124ES			
Q123	8-729-900-36	TRANSISTOR DTC124ES			
		< RESISTOR >			
R101	1-249-437-11	CARBON	47K	5%	1/4W
R102	1-249-429-11	CARBON	10K	5%	1/4W
R115	1-247-807-31	CARBON	100	5%	1/4W
R116	1-247-807-31	CARBON	100	5%	1/4W
R117	1-247-807-31	CARBON	100	5%	1/4W
R118	1-249-417-11	CARBON	1K	5%	1/4W F
R119	1-249-417-11	CARBON	1K	5%	1/4W F
R120	1-249-417-11	CARBON	1K	5%	1/4W F
R121	1-249-417-11	CARBON	1K	5%	1/4W F
R122	1-249-425-11	CARBON	4.7K	5%	1/4W F
R123	1-249-425-11	CARBON	4.7K	5%	1/4W F
R124	1-249-425-11	CARBON	4.7K	5%	1/4W F
R125	1-249-425-11	CARBON	4.7K	5%	1/4W F
R126	1-249-425-11	CARBON	4.7K	5%	1/4W F
R127	1-249-425-11	CARBON	4.7K	5%	1/4W F
R128	1-249-417-11	CARBON	1K	5%	1/4W F
R130	1-249-429-11	CARBON	10K	5%	1/4W
R131	1-249-419-11	CARBON	1.5K	5%	1/4W F
R141	1-249-441-11	CARBON	100K	5%	1/4W
R142	1-249-441-11	CARBON	100K	5%	1/4W
⚠R143	1-215-861-00	METAL OXIDE	47	5%	1W F
R144	1-249-393-11	CARBON	10	5%	1/4W F
R145	1-247-895-00	CARBON	470K	5%	1/4W
R146	1-247-903-00	CARBON	1M	5%	1/4W
R147	1-249-433-11	CARBON	22K	5%	1/4W
R148	1-247-903-00	CARBON	1M	5%	1/4W
R149	1-249-435-11	CARBON	33K	5%	1/4W
R150	1-249-393-11	CARBON	10	5%	1/4W F
⚠R153	1-249-385-11	CARBON	2.2	5%	1/6W F
⚠R154	1-249-385-11	CARBON	2.2	5%	1/6W F
R155	1-249-411-11	CARBON	330	5%	1/4W
R156	1-249-411-11	CARBON	330	5%	1/4W
R157	1-249-411-11	CARBON	330	5%	1/4W
R158	1-249-411-11	CARBON	330	5%	1/4W
R159	1-249-411-11	CARBON	330	5%	1/4W
R164	1-249-429-11	CARBON	10K	5%	1/4W
R165	1-249-429-11	CARBON	10K	5%	1/4W
R166	1-249-429-11	CARBON	10K	5%	1/4W
R188	1-249-411-11	CARBON	330	5%	1/4W
R189	1-249-413-11	CARBON	470	5%	1/4W F
R190	1-249-415-11	CARBON	680	5%	1/4W F
R191	1-249-417-11	CARBON	1K	5%	1/4W F
R192	1-249-419-11	CARBON	1.5K	5%	1/4W F
R193	1-249-421-11	CARBON	2.2K	5%	1/4W F
R194	1-249-425-11	CARBON	4.7K	5%	1/4W F
R195	1-249-411-11	CARBON	330	5%	1/4W
R196	1-249-413-11	CARBON	470	5%	1/4W F
R197	1-249-415-11	CARBON	680	5%	1/4W F
R198	1-249-417-11	CARBON	1K	5%	1/4W F
R199	1-249-419-11	CARBON	1.5K	5%	1/4W F
RR10	1-249-425-11	CARBON	4.7K	5%	1/4W F
		< SWITCH >			
S123	1-762-751-11	SWITCH, TACTILE (DPC MODE <)			
S124	1-762-751-11	SWITCH, TACTILE (DPC MODE >)			
S125	1-762-751-11	SWITCH, TACTILE (DISPLAY)			
S126	1-762-751-11	SWITCH, TACTILE (FM MODE)			
S127	1-762-751-11	SWITCH, TACTILE (FM/AM)			
S128	1-762-751-11	SWITCH, TACTILE (SHIFT)			
S129	1-762-751-11	SWITCH, TACTILE (DPC MODE ∧)			
S130	1-762-751-11	SWITCH, TACTILE (DPC MODE ∨)			
S131	1-762-751-11	SWITCH, TACTILE (PRESET TUNING –)			
S132	1-762-751-11	SWITCH, TACTILE (TUNING –)			
S133	1-762-751-11	SWITCH, TACTILE (PRESET TUNING +)			
S134	1-762-751-11	SWITCH, TACTILE (TUNING +)			
S151	1-762-751-11	SWITCH, TACTILE (POWER)			
		< VIBRATOR >			
X101	1-567-819-11	VIBRATOR, CERAMIC (4MHz)			
**********					
*	1-665-779-11	HEADPHONE BOARD			
		**********			
		< CONNECTOR >			
* CNP702	1-564-518-11	PLUG, CONNECTOR 3P			
		< JACK >			
J701	1-568-519-41	JACK, LARGE TYPE (PHONES)			
**********					
*	1-666-632-11	JOINT (B) BOARD			
		**********			
		< CONNECTOR >			
CNP213	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP216	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
**********					
*	1-666-159-11	JOINT (OSD) BOARD			
		**********			
		< CONNECTOR >			
CNP211	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P			
CNP212	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P			
**********					

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

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

L.B SW | MEMORY | OSD (S)

Ref. No.	Part No.	Description			Remark
*	1-665-814-11	L.B SW BOARD			
		**********			
		< DIODE >			
D118	8-719-313-45	DIODE SEL6810A-TH10 (BASS BOOST)			
		< RESISTOR >			
R160	1-249-411-11	CARBON	330	5%	1/4W
		< SWITCH >			
S135	1-762-751-11	SWITCH, TACTILE (BASS BOOST)			
**********					
*	1-665-796-11	MEMORY BOARD			
		**********			
		< CAPACITOR >			
C288	1-164-159-11	CERAMIC	0.1uF		50V
C289	1-164-159-11	CERAMIC	0.1uF		50V
C290	1-126-967-11	ELECT	47uF	20%	16V
C291	1-164-159-11	CERAMIC	0.1uF		50V
C294	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNS205	1-568-844-11	SOCKET, CONNECTOR 29P			
		< IC >			
IC216	8-759-916-94	IC SN74HC373AN			
IC218	8-759-916-94	IC SN74HC373AN			
IC220	8-759-485-58	IC MX23C4096-12-97C			
IC221	8-759-289-94	IC LH5160TF			
IC222	8-759-289-94	IC LH5160TF			
		< COIL >			
L204	1-410-521-11	INDUCTOR 100uH			
L205	1-410-521-11	INDUCTOR 100uH			
		< RESISTOR >			
R227	1-249-417-11	CARBON	1K	5%	1/4W F
R264	1-249-417-11	CARBON	1K	5%	1/4W F
R2012	1-249-429-11	CARBON	10K	5%	1/4W
R2013	1-249-429-11	CARBON	10K	5%	1/4W
R2014	1-249-429-11	CARBON	10K	5%	1/4W
**********					
*	A-4398-272-A	OSD (S) BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C204	1-164-159-11	CERAMIC	0.1uF		50V
C205	1-164-159-11	CERAMIC	0.1uF		50V
C207	1-162-306-11	CERAMIC	0.01uF	20%	16V
C209	1-164-159-11	CERAMIC	0.1uF		50V
C210	1-126-960-11	ELECT	1uF	20%	50V
C214	1-164-159-11	CERAMIC	0.1uF		50V
C215	1-164-159-11	CERAMIC	0.1uF		50V
C216	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C217	1-126-967-11	ELECT	47uF	20%	16V
C221	1-126-964-11	ELECT	10uF	20%	50V
C222	1-162-294-31	CERAMIC	0.001uF	10%	50V
C225	1-162-306-11	CERAMIC	0.01uF	20%	16V
C227	1-126-964-11	ELECT	10uF	20%	50V
C229	1-126-960-11	ELECT	1uF	20%	50V
C232	1-162-306-11	CERAMIC	0.01uF	20%	16V
C238	1-126-967-11	ELECT	47uF	20%	16V
C239	1-164-159-11	CERAMIC	0.1uF		50V
C245	1-164-159-11	CERAMIC	0.1uF		50V
C246	1-164-159-11	CERAMIC	0.1uF		50V
C261	1-102-074-00	CERAMIC	0.001uF	10%	50V
C269	1-164-159-11	CERAMIC	0.1uF		50V
C270	1-124-252-00	ELECT	0.33uF	20%	50V
C274	1-126-967-11	ELECT	47uF	20%	16V
C275	1-126-967-11	ELECT	47uF	20%	16V
C276	1-104-905-11	CAPACITOR	0.22F		5.5V
C277	1-162-306-11	CERAMIC	0.01uF	20%	16V
C278	1-126-960-11	ELECT	1uF	20%	50V
C280	1-164-159-11	CERAMIC	0.1uF		50V
C295	1-164-159-11	CERAMIC	0.1uF		50V
C297	1-126-923-11	ELECT	220uF	20%	10V
C2001	1-126-967-11	ELECT	47uF	20%	16V
C2238	1-102-074-00	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CNJ203	1-568-440-11	SOCKET, CONNECTOR 17P			
CNJ204	1-568-844-11	SOCKET, CONNECTOR 29P			
* CNJ214	1-564-509-11	PLUG, CONNECTOR 6P			
CNS211	1-695-094-11	SOCKET, CONNECTOR 11P			
CNS213	1-750-179-11	SOCKET, CONNECTOR 5P			
		< DIODE >			
D202	8-719-987-63	DIODE 1N4148M			
D203	8-719-987-63	DIODE 1N4148M			
D204	8-719-987-63	DIODE 1N4148M			
D205	8-719-024-99	DIODE 11ES2-NTA2B			
D210	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC201	8-759-135-80	IC uPC358C			
IC203	8-759-061-95	IC SN761200N			
IC204	8-759-061-95	IC SN761200N			
IC207	8-759-708-05	IC NJM78L05A			
IC209	8-759-426-13	IC MB90672PF-G-125-BND			
IC215	8-759-488-36	IC LC86F5864A-5F53			
IC217	8-759-604-35	IC M5F78M05L			
IC219	8-759-917-18	IC SN74HCU04AN			
IC223	8-759-388-26	IC NJM2129D			
		< JACK >			
J202	1-563-330-11	JACK (S-LINK CTRL A1)			
J204	1-537-943-11	TERMINAL, S (MONITOR S VIDEO OUT)			
J205	1-537-943-11	TERMINAL, S (LD/DVD S VIDEO IN)			
J207	1-691-964-11	CONNECTOR (ROUND TYPE) (VIDEO 1 S VIDEO IN/OUT)			
J212	1-563-330-11	JACK (VIDEO 1 CTRL S OUT)			
J213	1-563-330-11	JACK (VIDEO 2 CTRL S OUT)			
J214	1-563-330-11	JACK (MONITOR CTRL S IN)			

Ref. No.	Part No.	Description				Remark
		< COIL >				
L203	1-410-521-11	INDUCTOR 100uH				
L288	1-410-521-11	INDUCTOR 100uH				
L289	1-410-521-11	INDUCTOR 100uH				
		< TRANSISTOR >				
Q1	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q201	8-729-900-36	TRANSISTOR DTC124ES				
Q204	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q205	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q208	8-729-620-05	TRANSISTOR 2SC2603-EF				
Q209	8-729-620-05	TRANSISTOR 2SC2603-EF				
Q211	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q212	8-729-620-05	TRANSISTOR 2SC2603-EF				
Q220	8-729-620-05	TRANSISTOR 2SC2603-EF				
Q222	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q223	8-729-620-05	TRANSISTOR 2SC2603-EF				
Q225	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q226	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		< RESISTOR >				
R1	1-249-413-11	CARBON	470	5%	1/4W	F
R2	1-249-413-11	CARBON	470	5%	1/4W	F
R6	1-247-843-11	CARBON	3.3K	5%	1/4W	
R7	1-249-429-11	CARBON	10K	5%	1/4W	
R208	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R209	1-249-429-11	CARBON	10K	5%	1/4W	
R214	1-249-429-11	CARBON	10K	5%	1/4W	
R215	1-249-403-11	CARBON	68	5%	1/4W	
R218	1-249-403-11	CARBON	68	5%	1/4W	
R219	1-249-403-11	CARBON	68	5%	1/4W	
R220	1-249-409-11	CARBON	220	5%	1/4W	
R221	1-249-414-11	CARBON	560	5%	1/4W	F
R222	1-249-414-11	CARBON	560	5%	1/4W	F
R223	1-249-409-11	CARBON	220	5%	1/4W	
R224	1-249-433-11	CARBON	22K	5%	1/4W	
R225	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R228	1-249-411-11	CARBON	330	5%	1/4W	
R229	1-249-417-11	CARBON	1K	5%	1/4W	F
R231	1-249-417-11	CARBON	1K	5%	1/4W	F
R234	1-249-426-11	CARBON	5.6K	5%	1/4W	
R235	1-249-429-11	CARBON	10K	5%	1/4W	
R238	1-249-403-11	CARBON	68	5%	1/4W	
R240	1-249-403-11	CARBON	68	5%	1/4W	
R241	1-249-417-11	CARBON	1K	5%	1/4W	F
R244	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R245	1-249-417-11	CARBON	1K	5%	1/4W	F
R248	1-249-403-11	CARBON	68	5%	1/4W	
R249	1-249-413-11	CARBON	470	5%	1/4W	F
R251	1-249-403-11	CARBON	68	5%	1/4W	
R255	1-249-430-11	CARBON	12K	5%	1/4W	
R256	1-249-417-11	CARBON	1K	5%	1/4W	F
R257	1-249-403-11	CARBON	68	5%	1/4W	
R284	1-247-843-11	CARBON	3.3K	5%	1/4W	
R286	1-247-903-00	CARBON	1M	5%	1/4W	
R291	1-249-429-11	CARBON	10K	5%	1/4W	
R292	1-249-393-11	CARBON	10	5%	1/4W	F
R293	1-249-429-11	CARBON	10K	5%	1/4W	
R294	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R295	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R297	1-247-843-11	CARBON	3.3K	5%	1/4W	
R298	1-249-429-11	CARBON	10K	5%	1/4W	
R299	1-249-417-11	CARBON	1K	5%	1/4W	F
⚠R2001	1-215-857-11	METAL OXIDE	10	5%	1W	F
R2008	1-249-429-11	CARBON	10K	5%	1/4W	
R2015	1-247-807-31	CARBON	100	5%	1/4W	
R2016	1-249-429-11	CARBON	10K	5%	1/4W	
R2017	1-249-429-11	CARBON	10K	5%	1/4W	
R2018	1-249-429-11	CARBON	10K	5%	1/4W	
R2019	1-249-429-11	CARBON	10K	5%	1/4W	
R2020	1-247-807-31	CARBON	100	5%	1/4W	
R2031	1-247-807-31	CARBON	100	5%	1/4W	
R2032	1-247-807-31	CARBON	100	5%	1/4W	
R2033	1-247-807-31	CARBON	100	5%	1/4W	
R2034	1-247-807-31	CARBON	100	5%	1/4W	
R2035	1-247-807-31	CARBON	100	5%	1/4W	
R2036	1-247-807-31	CARBON	100	5%	1/4W	
R2037	1-247-807-31	CARBON	100	5%	1/4W	
R2038	1-247-807-31	CARBON	100	5%	1/4W	
R2039	1-247-807-31	CARBON	100	5%	1/4W	
R2040	1-247-807-31	CARBON	100	5%	1/4W	
R2041	1-247-807-31	CARBON	100	5%	1/4W	
R2042	1-247-807-31	CARBON	100	5%	1/4W	
R2043	1-247-807-31	CARBON	100	5%	1/4W	
R2044	1-247-807-31	CARBON	100	5%	1/4W	
R2045	1-247-807-31	CARBON	100	5%	1/4W	
R2046	1-247-807-31	CARBON	100	5%	1/4W	
R2047	1-247-807-31	CARBON	100	5%	1/4W	
R2048	1-247-807-31	CARBON	100	5%	1/4W	
R2049	1-247-807-31	CARBON	100	5%	1/4W	
R2050	1-247-807-31	CARBON	100	5%	1/4W	
R2051	1-247-807-31	CARBON	100	5%	1/4W	
R2052	1-247-807-31	CARBON	100	5%	1/4W	
R2053	1-247-807-31	CARBON	100	5%	1/4W	
		< TEST PIN >				
* TP204	1-560-062-00	PIN, CONNECTOR 4P				
TP205	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
		< VIBRATOR >				
X201	1-567-819-11	VIBRATOR, CERAMIC (4MHz)				
X205	1-567-776-41	VIBRATOR, CERAMIC (6MHz)				
**********						
*	A-4398-271-A	OSD (V) BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C200	1-126-964-11	ELECT	10uF	20%	50V	
C203	1-102-518-11	CERAMIC	33PF	5%	50V	
C206	1-102-852-91	CERAMIC	47PF	5%	50V	
C208	1-126-964-11	ELECT	10uF	20%	50V	
C211	1-162-290-31	CERAMIC	470PF	10%	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 piéce portant le numéro spécifié.

OSD (V)

Ref. No.	Part No.	Description			Remark
C212	1-126-933-11	ELECT	100uF	20%	10V
C213	1-164-159-11	CERAMIC	0.1uF		50V
C224	1-162-294-31	CERAMIC	0.001uF	10%	50V
C226	1-126-964-11	ELECT	10uF	20%	50V
C231	1-102-106-00	CERAMIC	100PF	10%	50V
C235	1-164-095-11	CERAMIC	0.01uF	10%	16V
C236	1-102-958-00	CERAMIC	20PF	5%	50V
C237	1-102-074-00	CERAMIC	0.001uF	10%	50V
C241	1-102-958-00	CERAMIC	20PF	5%	50V
C242	1-164-095-11	CERAMIC	0.01uF	10%	16V
C243	1-126-963-11	ELECT	4.7uF	20%	50V
C244	1-102-508-91	CERAMIC	10PF	0.5PF	50V
C247	1-162-282-31	CERAMIC	100PF	10%	50V
C248	1-126-960-11	ELECT	1uF	20%	50V
C249	1-136-162-00	FILM	0.056uF	5%	50V
C250	1-136-157-00	FILM	0.022uF	5%	50V
C251	1-164-159-11	CERAMIC	0.1uF		50V
C252	1-126-967-11	ELECT	47uF	20%	16V
C253	1-126-960-11	ELECT	1uF	20%	50V
C254	1-102-106-00	CERAMIC	100PF	10%	50V
C255	1-136-169-00	FILM	0.22uF	5%	50V
C256	1-126-960-11	ELECT	1uF	20%	50V
C257	1-126-960-11	ELECT	1uF	20%	50V
C258	1-126-960-11	ELECT	1uF	20%	50V
C259	1-162-306-11	CERAMIC	0.01uF	20%	16V
C260	1-162-293-31	CERAMIC	820PF	10%	50V
C262	1-126-960-11	ELECT	1uF	20%	50V
C263	1-102-106-00	CERAMIC	100PF	10%	50V
C264	1-126-964-11	ELECT	10uF	20%	50V
C265	1-126-964-11	ELECT	10uF	20%	50V
C266	1-126-964-11	ELECT	10uF	20%	50V
C267	1-126-960-11	ELECT	1uF	20%	50V
C268	1-126-967-11	ELECT	47uF	20%	16V
C271	1-126-960-11	ELECT	1uF	20%	50V
C272	1-136-162-00	FILM	0.056uF	5%	50V
C273	1-164-159-11	CERAMIC	0.1uF		50V
C279	1-126-964-11	ELECT	10uF	20%	50V
C283	1-136-157-00	FILM	0.022uF	5%	50V
C284	1-162-306-11	CERAMIC	0.01uF	20%	16V
C285	1-126-960-11	ELECT	1uF	20%	50V
C286	1-162-293-31	CERAMIC	820PF	10%	50V
C287	1-126-967-11	ELECT	47uF	20%	16V
C292	1-162-282-31	CERAMIC	100PF	10%	50V
C293	1-126-964-11	ELECT	10uF	20%	50V
C296	1-126-923-11	ELECT	220uF	20%	10V
		< CONNECTOR >			
CNP202	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
* CNP214	1-564-509-11	PLUG, CONNECTOR 6P			
CNS212	1-695-094-11	SOCKET, CONNECTOR 11P			
CNS216	1-750-179-11	SOCKET, CONNECTOR 5P			
		< TRIMMER >			
CT201	1-141-227-00	CAP, TRIMMER 20PF			
CT202	1-141-227-00	CAP, TRIMMER 20PF			
		< DIODE >			
D201	8-719-987-63	DIODE 1N4148M			
D206	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC202	8-759-140-53	IC uPD4053BC			
IC205	8-759-459-81	IC MB90095PF-G-186-BND			
IC206	8-759-916-12	IC SN74HC00AN			
IC208	8-759-140-53	IC uPD4053BC			
IC210	8-759-341-79	IC LA7217			
IC211	8-759-061-95	IC SN761200			
IC213	8-759-341-79	IC LA7217			
IC214	8-759-093-25	IC MB3512PFQ			
		< JACK >			
J203	1-563-330-11	JACK (IR OUT)			
J209	1-766-400-11	JACK, PIN 2P (VIDEO 2 VIDEO IN/OUT)			
J210	1-766-399-11	JACK, PIN 3P (VIDEO 1 VIDEO IN/OUT, MONITOR OUT)			
J211	1-766-400-11	JACK, PIN 2P (TV/DBS VIDEO IN, LD/DVD VIDEO IN)			
		< COIL >			
L201	1-410-513-11	INDUCTOR 22uH			
		< TRANSISTOR >			
Q200	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q202	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q203	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q206	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q207	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q210	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q214	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q215	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q216	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q217	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q218	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q219	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q221	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q230	8-729-620-05	TRANSISTOR 2SC2603-EF			
		< RESISTOR >			
R200	1-249-417-11	CARBON	1K	5%	1/4W F
R205	1-247-807-31	CARBON	100	5%	1/4W
R206	1-247-807-31	CARBON	100	5%	1/4W
R207	1-249-409-11	CARBON	220	5%	1/4W F
R210	1-249-424-11	CARBON	3.9K	5%	1/4W F
R211	1-249-437-11	CARBON	47K	5%	1/4W
R212	1-249-418-11	CARBON	1.2K	5%	1/4W F
R213	1-249-421-11	CARBON	2.2K	5%	1/4W F
R216	1-249-437-11	CARBON	47K	5%	1/4W
R217	1-249-437-11	CARBON	47K	5%	1/4W
R226	1-249-433-11	CARBON	22K	5%	1/4W
R230	1-249-411-11	CARBON	330	5%	1/4W
R232	1-249-409-11	CARBON	220	5%	1/4W F
R233	1-249-426-11	CARBON	5.6K	5%	1/4W
R237	1-249-429-11	CARBON	10K	5%	1/4W
R239	1-249-403-11	CARBON	68	5%	1/4W F
R242	1-249-433-11	CARBON	22K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R243	1-249-419-11	CARBON	1.5K	5%	1/4W F
R246	1-247-843-11	CARBON	3.3K	5%	1/4W
R247	1-249-403-11	CARBON	68	5%	1/4W F
R250	1-249-417-11	CARBON	1K	5%	1/4W F
R252	1-249-414-11	CARBON	560	5%	1/4W F
R253	1-249-417-11	CARBON	1K	5%	1/4W F
R254	1-249-430-11	CARBON	12K	5%	1/4W
R258	1-249-414-11	CARBON	560	5%	1/4W F
R259	1-249-417-11	CARBON	1K	5%	1/4W F
R260	1-249-425-11	CARBON	4.7K	5%	1/4W F
R261	1-249-433-11	CARBON	22K	5%	1/4W
R262	1-247-883-00	CARBON	150K	5%	1/4W
R263	1-249-414-11	CARBON	560	5%	1/4W F
R265	1-249-414-11	CARBON	560	5%	1/4W F
R266	1-249-403-11	CARBON	68	5%	1/4W F
R267	1-249-424-11	CARBON	3.9K	5%	1/4W F
R268	1-249-403-11	CARBON	68	5%	1/4W F
R269	1-249-403-11	CARBON	68	5%	1/4W F
R270	1-249-426-11	CARBON	5.6K	5%	1/4W
R271	1-249-426-11	CARBON	5.6K	5%	1/4W
R272	1-249-426-11	CARBON	5.6K	5%	1/4W
R274	1-249-403-11	CARBON	68	5%	1/4W F
R275	1-249-403-11	CARBON	68	5%	1/4W F
R276	1-249-419-11	CARBON	1.5K	5%	1/4W F
R277	1-249-419-11	CARBON	1.5K	5%	1/4W F
R278	1-249-419-11	CARBON	1.5K	5%	1/4W F
R279	1-249-403-11	CARBON	68	5%	1/4W F
R280	1-249-403-11	CARBON	68	5%	1/4W F
R281	1-249-403-11	CARBON	68	5%	1/4W F
R282	1-249-403-11	CARBON	68	5%	1/4W F
R283	1-249-403-11	CARBON	68	5%	1/4W F
R287	1-247-807-31	CARBON	100	5%	1/4W
R288	1-249-430-11	CARBON	12K	5%	1/4W
R289	1-249-430-11	CARBON	12K	5%	1/4W
R290	1-249-430-11	CARBON	12K	5%	1/4W
R296	1-247-843-11	CARBON	3.3K	5%	1/4W
R2000	1-249-437-11	CARBON	47K	5%	1/4W
R2002	1-249-417-11	CARBON	1K	5%	1/4W F
R2003	1-247-883-00	CARBON	150K	5%	1/4W
R2004	1-249-424-11	CARBON	3.9K	5%	1/4W F
R2005	1-249-414-11	CARBON	560	5%	1/4W F
R2007	1-249-409-11	CARBON	220	5%	1/4W F
R2009	1-249-409-11	CARBON	220	5%	1/4W F
R2010	1-249-409-11	CARBON	220	5%	1/4W F
R2011	1-249-409-11	CARBON	220	5%	1/4W F
R2023	1-249-417-11	CARBON	1K	5%	1/4W F
		< VARIABLE RESISTOR >			
RV201	1-241-766-11	RES, ADJ, CERMET 47K			
		< TEST PIN >			
* TP203	1-560-061-00	PIN, CONNECTOR 3P			
		< VIBRATOR >			
X203	1-527-722-00	VIBRATOR, CRYSTAL(14.3MHz)			
X204	1-579-583-11	VIBRATOR, CERAMIC (503kHz)			

****

Ref. No.	Part No.	Description			Remark
*	A-4398-261-A	PS BOARD, COMPLETE			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C901	1-136-157-00	FILM	0.022uF	5%	50V
C902	1-136-157-00	FILM	0.022uF	5%	50V
C903	1-126-768-11	ELECT	2200uF	20%	16V
C904	1-126-960-11	ELECT	1uF	20%	50V
C905	1-126-959-11	ELECT	0.47uF	20%	50V
C906	1-124-464-11	ELECT	0.22uF	20%	50V
C913	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
⚠CNJ901	1-540-060-11	OUTLET, AC (POLAR)(AC OUTLET)			
CNP903	1-564-321-00	PIN, CONNECTOR 2P			
CNP905	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
		< DIODE >			
D901	8-719-024-99	DIODE 11ES2-NTA2B			
D902	8-719-024-99	DIODE 11ES2-NTA2B			
D903	8-719-024-99	DIODE 11ES2-NTA2B			
D904	8-719-024-99	DIODE 11ES2-NTA2B			
D905	8-719-987-63	DIODE 1N4148M			
D906	8-719-987-63	DIODE 1N4148M			
D907	8-719-987-63	DIODE 1N4148M			
		< GROUND TERMINAL >			
* EB900	1-537-738-21	TERMINAL, EARTH			
		< FUSE >			
⚠F901	1-533-311-11	FUSE, GLASS CYLINDRICAL(DIA.5)(8.0A, 125V)			
		< FUSE HOLDER >			
FH901	1-533-217-31	HOLDER, FUSE			
FH951	1-533-217-31	HOLDER, FUSE			
		< IC >			
IC901	8-759-333-83	IC NJM2103D			
		< TRANSISTOR >			
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q902	8-729-209-15	TRANSISTOR 2SD2012			
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W F
R904	1-249-417-11	CARBON	1K	5%	1/4W F
R905	1-249-428-11	CARBON	8.2K	5%	1/4W F
R906	1-249-421-11	CARBON	2.2K	5%	1/4W F
R908	1-249-433-11	CARBON	22K	5%	1/4W
R909	1-249-439-11	CARBON	68K	5%	1/4W
R910	1-249-437-11	CARBON	47K	5%	1/4W
R912	1-249-430-11	CARBON	12K	5%	1/4W

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PS REAR AMP S-A-P SECONDARY

Ref. No.	Part No.	Description			Remark
		< RELAY >			
⚠RY901	1-515-999-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T902	1-431-430-11	TRANSFORMER, POWER			
**********					
*	A-4398-258-A	REAR AMP BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-126-964-11	ELECT	10uF	20%	50V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-102-233-00	CERAMIC	33PF	10%	500V
C705	1-126-933-11	ELECT	100uF	20%	10V
C720	1-126-967-11	ELECT	47uF	20%	16V
C721	1-107-597-11	CERAMIC	22PF	10%	500V
C722	1-107-597-11	CERAMIC	22PF	10%	500V
C723	1-162-286-31	CERAMIC	220PF	10%	50V
C751	1-126-964-11	ELECT	10uF	20%	50V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-102-233-00	CERAMIC	33PF	10%	500V
C755	1-126-933-11	ELECT	100uF	20%	10V
C770	1-126-967-11	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
C793	1-126-923-11	ELECT	220uF	20%	10V
C798	1-128-560-11	ELECT	22uF	20%	100V
C799	1-128-560-11	ELECT	22uF	20%	100V
		< CONNECTOR >			
CNP704	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
* CNP705	1-564-242-00	PIN, CONNECTOR 5P			
CNP706	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNS704	1-564-510-11	PLUG, CONNECTOR 7P			
		< DIODE >			
D701	8-719-987-63	DIODE 1N4148M			
D702	8-719-010-06	DIODE UZ-2.2BS			
D703	8-719-010-06	DIODE UZ-2.2BS			
D704	8-719-987-63	DIODE 1N4148M			
D751	8-719-987-63	DIODE 1N4148M			
D752	8-719-010-06	DIODE UZ-2.2BS			
D753	8-719-010-06	DIODE UZ-2.2BS			
D754	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC701	8-759-326-52	IC uPC2581V			
		< TRANSISTOR >			
Q701	8-729-900-80	TRANSISTOR DTC114ES			
Q703	8-729-422-57	TRANSISTOR UN4111			
Q704	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q705	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q706	8-749-010-25	IC MN2488-OPY-M			
Q707	8-749-010-26	IC MP1620-OPY-M			
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q754	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q755	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q756	8-749-010-25	IC MN2488-OPY-M			
Q757	8-749-010-26	IC MP1620-OPY-M			
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
		< RESISTOR >			
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-439-11	CARBON	68K	5%	1/4W
R704	1-247-807-31	CARBON	100	5%	1/4W
R721	1-249-437-11	CARBON	47K	5%	1/4W
R722	1-249-421-11	CARBON	2.2K	5%	1/4W F
R723	1-249-414-11	CARBON	560	5%	1/4W F
⚠R724	1-249-408-11	CARBON	180	5%	1/4W F
⚠R725	1-249-408-11	CARBON	180	5%	1/4W F
⚠R726	1-233-352-41	ENCAPSULATED	COMPONENT		
R727	1-247-850-11	CARBON	6.2K	5%	1/4W
R728	1-249-419-11	CARBON	1.5K	5%	1/4W F
R732	1-249-437-11	CARBON	47K	5%	1/4W
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-439-11	CARBON	68K	5%	1/4W
R754	1-247-807-31	CARBON	100	5%	1/4W
R771	1-249-437-11	CARBON	47K	5%	1/4W
R772	1-249-421-11	CARBON	2.2K	5%	1/4W F
R773	1-249-414-11	CARBON	560	5%	1/4W F
⚠R774	1-249-408-11	CARBON	180	5%	1/4W F
⚠R775	1-249-408-11	CARBON	180	5%	1/4W F
⚠R776	1-233-352-41	ENCAPSULATED	COMPONENT		
R777	1-247-850-11	CARBON	6.2K	5%	1/4W
R778	1-249-419-11	CARBON	1.5K	5%	1/4W F
R782	1-249-437-11	CARBON	47K	5%	1/4W
R790	1-249-417-11	CARBON	1K	5%	1/4W F
R794	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R798	1-249-393-11	CARBON	10	5%	1/4W F
⚠R799	1-249-393-11	CARBON	10	5%	1/4W F
**********					
*	1-665-787-11	S-A-P BOARD			
		**********			
		< CONNECTOR >			
CNP703	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P			
CNS702	1-695-096-11	SOCKET, CONNECTOR 15P			
CNS905	1-695-092-11	SOCKET, CONNECTOR 7P			
**********					
*	1-665-783-11	SECONDARY BOARD			
		**********			
		< CAPACITOR >			
C801	1-104-664-11	ELECT	47uF	20%	25V
C805	1-137-424-11	FILM	0.22uF	10%	100V
C806	1-137-424-11	FILM	0.22uF	10%	100V
C850	1-137-416-11	FILM	0.01uF	10%	100V
C851	1-137-416-11	FILM	0.01uF	10%	100V

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Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNP801	1-564-905-11	PIN, CONNECTOR 9P	
CNP811	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
		< DIODE >	
D801	8-719-302-38	DIODE RBV-602-01	
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	8-719-014-66	DIODE UZP-5.6B	
D851	8-719-302-38	DIODE RBV-602-01	
		< FUSE >	
⚠F950	1-533-311-11	FUSE, GLASS CYLINDRICAL(DIA.5)(8.0A, 125V)	
⚠F951	1-533-311-11	FUSE, GLASS CYLINDRICAL(DIA.5)(8.0A, 125V)	
		< FUSE HOLDER >	
FH905	1-533-217-31	HOLDER, FUSE	
FH906	1-533-217-31	HOLDER, FUSE	
FH955	1-533-217-31	HOLDER, FUSE	
FH956	1-533-217-31	HOLDER, FUSE	
		<MICRO FUSE>	
⚠PS901	1-533-909-11	FUSE, MICRO (4A/125V)	
⚠PS902	1-533-909-11	FUSE, MICRO (4A/125V)	
⚠PS903	1-533-909-11	FUSE, MICRO (4A/125V)	
		< TRANSFORMER >	
⚠T901	1-431-281-11	TRANSFORMER, POWER (US)	
⚠T901	1-431-282-11	TRANSFORMER, POWER (CND)	

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*	A-4398-262-A	SP (2F) BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C624	1-126-964-11	ELECT	10uF	20%	50V
C625	1-136-157-00	FILM	0.022uF	5%	50V
C626	1-136-153-00	FILM	0.01uF	5%	50V
C706	1-126-951-11	ELECT	470uF	20%	35V
C707	1-104-664-11	ELECT	47uF	20%	25V
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
C775	1-136-157-00	FILM	0.022uF	5%	50V
		< CONNECTOR >			
CNJ701	1-774-136-11	CONNECTOR, ROUND TYPE 6P (WIRELESS REAR SPEAKER)			
CNP603	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNS703	1-695-094-11	SOCKET, CONNECTOR 11P			
		< DIODE >			
D543	8-719-987-63	DIODE 1N4148M			
D605	8-719-987-63	DIODE 1N4148M			
D606	8-719-987-63	DIODE 1N4148M			
D607	8-719-987-63	DIODE 1N4148M			
D649	8-719-987-63	DIODE 1N4148M			
D705	8-719-987-63	DIODE 1N4148M			
D706	8-719-987-63	DIODE 1N4148M			
D707	8-719-002-06	DIODE UZL-18L			
D749	8-719-987-63	DIODE 1N4148M			
		< JACK >			
J501	1-770-377-31	JACK, PIN 1P (WOOFER AUDIO OUT)			
		< COIL >			
L601	1-420-872-00	COIL, AIR-CORE			
L701	1-420-872-00	COIL, AIR-CORE			
L751	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q544	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q609	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q610	8-729-900-63	TRANSISTOR DTA124ES			
Q611	8-729-900-63	TRANSISTOR DTA124ES			
Q645	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q709	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q710	8-729-900-63	TRANSISTOR DTA124ES			
Q745	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q748	8-729-209-15	TRANSISTOR 2SD2012			
		< RESISTOR >			
R543	1-249-429-11	CARBON	10K	5%	1/4W
R544	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R545	1-249-393-11	CARBON	10	5%	1/4W F
R546	1-249-425-11	CARBON	4.7K	5%	1/4W F
R629	1-247-866-11	CARBON	30K	5%	1/4W
R630	1-249-421-11	CARBON	2.2K	5%	1/4W F
R631	1-249-433-11	CARBON	22K	5%	1/4W
⚠R633	1-249-393-11	CARBON	10	5%	1/4W F
⚠R634	1-249-389-11	CARBON	4.7	5%	1/4W F
R635	1-249-431-11	CARBON	15K	5%	1/4W
R636	1-249-433-11	CARBON	22K	5%	1/4W
R647	1-249-429-11	CARBON	10K	5%	1/4W
R648	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R649	1-249-393-11	CARBON	10	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
⚠R733	1-249-393-11	CARBON	10	5%	1/4W F
⚠R734	1-249-389-11	CARBON	4.7	5%	1/4W F
R735	1-249-431-11	CARBON	15K	5%	1/4W
R737	1-249-417-11	CARBON	1K	5%	1/4W
R738	1-247-887-00	CARBON	220K	5%	1/4W
R746	1-249-417-11	CARBON	1K	5%	1/4W F
R747	1-249-429-11	CARBON	10K	5%	1/4W
R748	1-249-425-11	CARBON	4.7K	5%	1/4W F
R749	1-249-393-11	CARBON	10	5%	1/4W F
⚠R783	1-249-393-11	CARBON	10	5%	1/4W F
⚠R784	1-249-389-11	CARBON	4.7	5%	1/4W F
R787	1-249-417-11	CARBON	1K	5%	1/4W
R788	1-247-887-00	CARBON	220K	5%	1/4W

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SP (2F) **SP SW** **SUR**

Ref. No.	Part No.	Description			Remark
		< RELAY >			
RY503	1-515-793-11	RELAY			
RY601	1-515-920-11	RELAY (24V)			
RY701	1-515-920-11	RELAY (24V)			
		< SWITCH >			
S501	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)			
		< TERMINAL >			
TM701	1-537-881-11	TERMINAL BOARD (6P)(SURROUND SPEAKERS)			
**********					
*	1-665-775-11	SP SW BOARD			
		**********			
		< CONNECTOR >			
* CNS101	1-695-808-11	CONNECTOR, PC BOARD 8P			
		< DIODE >			
D152	8-719-987-63	DIODE 1N4148M			
D153	8-719-987-63	DIODE 1N4148M			
		< SWITCH >			
S136	1-762-751-11	SWITCH, TACTILE (DPC MODE)			
S155	1-762-268-11	SWITCH, ROTARY (SPEAKERS)			
**********					
*	A-4398-266-A	SUR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C301	1-126-963-11	ELECT	4.7uF	20%	50V
C302	1-162-282-31	CERAMIC	100PF	10%	50V
C303	1-126-967-11	ELECT	47uF	20%	16V
C304	1-130-480-00	MYLAR	0.0056uF	5%	50V
C305	1-106-347-00	MYLAR	1500PF	5%	200V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-164-159-11	CERAMIC	0.1uF		50V
C351	1-126-963-11	ELECT	4.7uF	20%	50V
C352	1-162-282-31	CERAMIC	100PF	10%	50V
C353	1-126-967-11	ELECT	47uF	20%	16V
C354	1-130-480-00	MYLAR	0.0056uF	5%	50V
C355	1-106-347-00	MYLAR	1500PF	5%	200V
C356	1-126-960-11	ELECT	1uF	20%	50V
C357	1-164-159-11	CERAMIC	0.1uF		50V
C394	1-126-967-11	ELECT	47uF	20%	16V
C395	1-126-967-11	ELECT	47uF	20%	16V
C396	1-164-070-11	CERAMIC	100PF	5%	50V
C397	1-162-294-31	CERAMIC	0.001uF	10%	50V
C401	1-128-547-11	ELECT	6800uF	20%	16V
C402	1-126-935-11	ELECT	470uF	20%	16V
C403	1-126-935-11	ELECT	470uF	20%	16V
C404	1-130-495-00	FILM	0.1uF	5%	50V
C405	1-130-495-00	FILM	0.1uF	5%	50V
C407	1-126-964-11	ELECT	10uF	20%	50V
C408	1-164-159-11	CERAMIC	0.1uF		50V
C409	1-130-495-00	MYLAR	0.1uF	5%	50V
C410	1-130-495-00	MYLAR	0.1uF	5%	50V
C457	1-126-964-11	ELECT	10uF	20%	50V
C458	1-164-159-11	CERAMIC	0.1uF		50V
C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-164-070-11	CERAMIC	100PF	5%	50V
C503	1-107-601-11	CERAMIC	33PF	5%	500V
C504	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C505	1-126-933-11	ELECT	100uF	20%	16V
C551	1-126-964-11	ELECT	10uF	20%	50V
C552	1-164-070-11	CERAMIC	100PF	5%	50V
C553	1-107-601-11	CERAMIC	33PF	5%	500V
C554	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C555	1-126-933-11	ELECT	100uF	20%	16V
C593	1-126-923-11	ELECT	220uF	20%	10V
C594	1-128-560-11	ELECT	22uF	20%	100V
C595	1-128-560-11	ELECT	22uF	20%	100V
C601	1-126-964-11	ELECT	10uF	20%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-102-989-00	CERAMIC	68PF	5%	500V
C604	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C605	1-126-967-11	ELECT	47uF	20%	16V
C606	1-102-989-00	CERAMIC	68PF	5%	500V
C607	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CNP250	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNP303	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNS401	1-569-323-11	SOCKET, CONNECTOR 19P			
CNS403	1-569-324-11	SOCKET, CONNECTOR 21P			
CNS404	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNS405	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CNS406	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CNS501	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNS502	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNS601	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
		< DIODE >			
D401	8-719-987-63	DIODE 1N4148M			
D402	8-719-025-03	DIODE RBA-402-SL			
D403	8-719-024-99	DIODE 11ES2-NTA2B			
		< GROUND TERMINAL >			
* EB401	1-537-738-21	TERMINAL, EARTH			
* EB402	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC301	8-759-805-14	IC LC7822			
IC302	8-759-636-74	IC M5218AP-22			
IC304	8-759-636-74	IC M5218AP-22			
IC401	8-759-231-53	IC TA7805S			
IC402	8-759-231-53	IC TA7805S			
IC501	8-759-326-52	IC uPC2581V			
IC601	8-749-011-16	IC STK350-230			
IC602	8-759-636-74	IC M5218AP-22			

Ref. No.	Part No.	Description			Remark
		< JACK >			
J302	1-766-394-11	JACK, PIN 6P (DAT/MD RECOUT, CD IN, PHONO IN)			
J303	1-766-394-11	JACK, PIN 6P (DAT/MD IN, TAPE RECOUT/IN)			
		< TRANSISTOR >			
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q410	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q411	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q451	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q503	8-729-422-57	TRANSISTOR UN4111			
Q512	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R301	1-249-409-11	CARBON	220	5%	1/4W F
R302	1-249-441-11	CARBON	100K	5%	1/4W
R303	1-249-441-11	CARBON	100K	5%	1/4W
R304	1-249-416-11	CARBON	820	5%	1/4W F
R305	1-247-897-11	CARBON	560K	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-247-807-31	CARBON	100	5%	1/4W
R310	1-249-417-11	CARBON	1K	5%	1/4W F
R311	1-249-417-11	CARBON	1K	5%	1/4W F
R312	1-249-417-11	CARBON	1K	5%	1/4W F
R313	1-249-417-11	CARBON	1K	5%	1/4W F
R314	1-249-417-11	CARBON	1K	5%	1/4W F
R315	1-249-437-11	CARBON	47K	5%	1/4W
R351	1-249-409-11	CARBON	220	5%	1/4W F
R352	1-249-441-11	CARBON	100K	5%	1/4W
R353	1-249-441-11	CARBON	100K	5%	1/4W
R354	1-249-416-11	CARBON	820	5%	1/4W F
R355	1-247-897-11	CARBON	560K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-247-807-31	CARBON	100	5%	1/4W
R360	1-249-417-11	CARBON	1K	5%	1/4W F
R361	1-249-417-11	CARBON	1K	5%	1/4W F
R362	1-249-417-11	CARBON	1K	5%	1/4W F
R363	1-249-417-11	CARBON	1K	5%	1/4W F
R364	1-249-417-11	CARBON	1K	5%	1/4W F
R365	1-249-437-11	CARBON	47K	5%	1/4W
R396	1-249-417-11	CARBON	1K	5%	1/4W F
R397	1-249-425-11	CARBON	4.7K	5%	1/4W F
R412	1-249-425-11	CARBON	4.7K	5%	1/4W F
R449	1-249-425-11	CARBON	4.7K	5%	1/4W F
R450	1-249-441-11	CARBON	100K	5%	1/4W
R462	1-249-425-11	CARBON	4.7K	5%	1/4W F
R483	1-249-441-11	CARBON	100K	5%	1/4W
R484	1-249-429-11	CARBON	10K	5%	1/4W
R486	1-249-437-11	CARBON	47K	5%	1/4W
R490	1-249-433-11	CARBON	22K	5%	1/4W
R491	1-249-429-11	CARBON	10K	5%	1/4W
R492	1-249-416-11	CARBON	820	5%	1/4W F
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-439-11	CARBON	68K	5%	1/4W
R503	1-249-439-11	CARBON	68K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R504	1-249-411-11	CARBON	330	5%	1/4W
R551	1-249-417-11	CARBON	1K	5%	1/4W F
R552	1-249-439-11	CARBON	68K	5%	1/4W
R553	1-249-439-11	CARBON	68K	5%	1/4W
R554	1-249-411-11	CARBON	330	5%	1/4W
R590	1-249-417-11	CARBON	1K	5%	1/4W F
⚠R592	1-249-381-11	CARBON	1	5%	1/4W F
⚠R593	1-249-381-11	CARBON	1	5%	1/4W F
R594	1-249-425-11	CARBON	4.7K	5%	1/4W F
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-247-807-31	CARBON	100	5%	1/4W
R604	1-249-439-11	CARBON	68K	5%	1/4W
R605	1-249-413-11	CARBON	470	5%	1/4W F
R606	1-249-439-11	CARBON	68K	5%	1/4W
R607	1-249-417-11	CARBON	1K	5%	1/4W F
R608	1-249-431-11	CARBON	15K	5%	1/4W
		< RELAY >			
RY401	1-515-614-11	RELAY			
		< TERMINAL >			
TM401	1-694-265-11	TERMINAL BOARD, ANT (ANTENNA)			
		< FM/AM TUNER >			
TU401	1-233-592-11	ENCAPSULATED COMPONENT			
**********					
*	1-665-776-11	SUR-AUDIO2F BOARD **********			
		< CONNECTOR >			
CNP302	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNS303	1-695-093-11	SOCKET, CONNECTOR 9P			
**********					
*	1-665-780-11	SW BOARD ********			
		< CONNECTOR >			
CNP103	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
		< RESISTOR >			
R169	1-249-411-11	CARBON	330	5%	1/4W
R170	1-249-413-11	CARBON	470	5%	1/4W F
R171	1-249-415-11	CARBON	680	5%	1/4W F
R172	1-249-417-11	CARBON	1K	5%	1/4W F
R173	1-249-419-11	CARBON	1.5K	5%	1/4W F
R174	1-249-421-11	CARBON	2.2K	5%	1/4W F
R175	1-249-425-11	CARBON	4.7K	5%	1/4W F
R176	1-249-411-11	CARBON	330	5%	1/4W
R177	1-249-413-11	CARBON	470	5%	1/4W F
R178	1-249-415-11	CARBON	680	5%	1/4W F
R179	1-249-417-11	CARBON	1K	5%	1/4W F
R180	1-249-419-11	CARBON	1.5K	5%	1/4W F
R181	1-249-421-11	CARBON	2.2K	5%	1/4W F

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

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

SW VIDEO3 VOLUME

Ref. No.	Part No.	Description			Remark
R182	1-249-411-11	CARBON	330	5%	1/4W
R183	1-249-413-11	CARBON	470	5%	1/4W F
R184	1-249-415-11	CARBON	680	5%	1/4W F
R185	1-249-417-11	CARBON	1K	5%	1/4W F
R186	1-249-419-11	CARBON	1.5K	5%	1/4W F
R187	1-249-421-11	CARBON	2.2K	5%	1/4W F
		< SWITCH >			
S105	1-762-751-11	SWITCH, TACTILE (DIRECT PASS)			
S106	1-762-751-11	SWITCH, TACTILE (GENRE)			
S107	1-762-751-11	SWITCH, TACTILE (SET UP)			
S108	1-762-751-11	SWITCH, TACTILE (MODE)			
S113	1-762-751-11	SWITCH, TACTILE (AUDIO FUNCTION <)			
S114	1-762-751-11	SWITCH, TACTILE (SOUND FIELD ON/OFF)			
S115	1-762-751-11	SWITCH, TACTILE (AUDIO FUNCTION >)			
S120	1-762-751-11	SWITCH, TACTILE (VIDEO FUNCTION <)			
S121	1-762-751-11	SWITCH, TACTILE (INPUT MODE)			
S122	1-762-751-11	SWITCH, TACTILE (VIDEO FUNCTION >)			
*	1-665-777-11	VIDEO3 BOARD **********			
		< CAPACITOR >			
C299	1-164-159-11	CERAMIC	0.1uF		50V
		< JACK >			
J299	1-764-190-11	JACK, PIN 3P (VIDEO 3 INPUT)			
		< RESISTOR >			
R297	1-249-403-11	CARBON	68	5%	1/4W F
R298	1-249-403-11	CARBON	68	5%	1/4W F
R299	1-249-403-11	CARBON	68	5%	1/4W F
R316	1-249-417-11	CARBON	1K	5%	1/4W F
R366	1-249-417-11	CARBON	1K	5%	1/4W F
*	1-665-774-11	VOLUME BOARD **********			
		< CONNECTOR >			
CNP102	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P			
CNS402	1-569-323-11	SOCKET, CONNECTOR 19P			
		< RESISTOR >			
R499	1-249-411-11	CARBON	330	5%	1/4W
		< VARIABLE RESISTOR >			
RV401	1-225-445-11	RES, VAR, CARBON 100KX6 (MASTER VOLUME)			

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS **********	
61	1-773-107-11	WIRE (FLAT TYPE)(19 CORE)(90mm)	
62	1-773-116-11	WIRE (FLAT TYPE)(19 CORE)(170mm)	
63	1-775-173-11	WIRE (FLAT TYPE)(17 CORE)(410mm)	
64	1-773-174-11	WIRE (FLAT TYPE)(21 CORE)(420mm)	
105	1-773-279-11	WIRE (FLAT TYPE)(29 CORE)(90mm)	
106	1-773-174-11	WIRE (FLAT TYPE)(21 CORE)(420mm)	
⚠CNP901	1-769-743-11	CORD, POWER	
FL101	1-517-671-11	INDICATOR TUBE, FLUORESCENT	
Q505	8-729-209-15	TRANSISTOR 2SD2012	
Q506	8-749-010-25	IC MN2488-OPY-M	
Q507	8-749-010-26	IC MP1620-OPY-M	
Q555	8-729-209-15	TRANSISTOR 2SD2012	
Q556	8-749-010-25	IC MN2488-OPY-M	
Q557	8-749-010-26	IC MP1620-OPY-M	
Q605	8-729-209-15	TRANSISTOR 2SD2012	
Q606	8-749-010-25	IC MN2488-OPY-M	
Q607	8-749-010-26	IC MP1620-OPY-M	
Q706	8-749-010-25	IC MN2488-OPY-M	
Q707	8-749-010-26	IC MP1620-OPY-M	
Q756	8-749-010-25	IC MN2488-OPY-M	
Q757	8-749-010-26	IC MP1620-OPY-M	
⚠T901	1-431-281-11	TRANSFORMER, POWER (US)	
⚠T901	1-431-282-11	TRANSFORMER, POWER (CND)	
		ACCESSORIES & PACKING MATERIALS **********	
	1-475-133-11	REMOTE COMMANDER (RM-H501)	
	1-475-324-11	RAY-CATCHER UNIT (WITH PLUG)	
	1-501-374-11	ANTENNA, LOOP	
	1-751-619-11	CORD, CONNECTION (VIDEO 1.5m)	
	1-777-172-11	CORD, CONNECTION (CONTROL A1)	
	3-810-765-11	MANUAL,COMMONNESS INSTRUCTION (ENGLISH)(US)	
	3-810-765-21	MANUAL,COMMONNESS INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH, SWEDISH,ITALIAN,PORTUGUESE,CHINESE) (CND)	
	3-860-819-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-860-819-22	MANUAL, INSTRUCTION (FRENCH)(CND)	
	4-983-536-01	COVER, BATTERY (For RM-H501)	
		********** HARDWARE LIST **********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT(B)	
#2	7-685-881-09	SCREW +BVTT 4X8 (S)	
#3	7-685-872-09	SCREW +BVTT 3X8 (S)	

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9-920-943-11

Sony Corporation
Home A&V Products Company

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