


STR-G3

SERVICE MANUAL

US Model
Canadian Model
PX Model



Refer to the previously issued STR-G1ES Service Manual (9-959-241-11) for the remote commander (RM-VP1).

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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 110 watts per channel minimum RMS power, with no more than 0.3 % total harmonic distortion from 250 milliwatts to rated output.

	Surround mode (at 1 kHz, THD 0.8% 8 ohms)
FRONT	100 W + 100 W
CENTER ^{a)}	100 W
REAR	50 W + 50 W

^{a)} Only in the DOLBY SUR and THEATER modes.

Other Specifications

Dynamic power output (in the stereo mode)	8 ohms; at 1 kHz IHF	160 W + 160 W
	4 ohms; at 1 kHz IHF	225 W + 225 W
Frequency response	PHONO	RIAA equalization curve ± 0.5 dB
	CD, DAT/MD, TAPE, VIDEO 1,2,3, LD, SATL	10 Hz - 50 kHz ± 1 dB
Damping factor (8 ohms, at 1kHz)		50
Input sensitivity/impedance	PHONO MM	2.5 mV, 50 kilohms
	CD	300 mV, 50 kilohms
	DAT/MD TAPE, VIDEO 1,2,3, LD, SATL	250 mV 50 kilohms
S/N	PHONO MM	75 dB 75 dB ^{b)} (A, 2.5 mV)
	DAT/MD TAPE, VIDEO 1,2,3, LD, SATL	82 dB 82 dB ^{b)} (A, 150 mV)

^{b)} 78 IHF

— Continued on page 2 —

FM STEREO/FM-AM RECEIVER
SONY®

Level sensitivity/ impedance	DAT/MD, TAPE, VIDEO 1,2	250 mV 10 kilohms
	HEADPHONES	Accepts headphones of high and low impedance
	MIX OUT	1 V, 1 kilohm
MUTING		-20 dB
BASS BOOST		+10 dB at 70 Hz

Digital signal processor section

Surround	SURR EFFECT	5-step adjustable
	DELAY TIME ^d	15 ms - 30 ms, 5 ms step
	REAR LEVEL ^d	-15 to +10 dB, 1 dB step
	CENTER LEVEL ^d	-15 to +10 dB, 1 dB step
Tone control	BASS	100 Hz ±10 dB, 2 dB step
	TREBLE	100 Hz ±10 dB, 2 dB step

^d Only in the DOLBY SUR mode.
^d Only in the DOLBY SUR, THEATER and LIVE modes.

FM tuner section

Tuning range		87.5 - 108.0 MHz
Antenna terminals		75 ohms, unbalanced
Sensitivity		18.3 dBf, 4.5 μV (mono) 38.3 dBf, 45 μV (stereo)
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 ±3 dB
Selectivity		60 dB at 400 kHz

AM tuner section

Tuning range	530 - 1,710 kHz (with 10 kHz interval*) 531 - 1,710 kHz (with 9 kHz interval)
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 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)

* You can change the AM tuning interval to 9 kHz (or 10 kHz). After tuning in any AM station, turn off the receiver. Hold down the PRESET TUNING + button and press the POWER button. All preset stations will be erased when you change the interval. To reset the interval to 10 kHz (or 9 kHz) repeat the procedure.

Video section

Inputs	VIDEO 1,2,3, LD, SATL: 1 Vp-p 75 ohms	
Outputs	VIDEO 1,2, MONITOR: 1 Vp-p 75 ohms	
S VIDEO INPUT	VIDEO 1,2,3, LD	Luminance: 1 Vp-p 75 ohms Chrominance: 0.286 Vp-p 75 ohms
S VIDEO OUT	MONITOR VIDEO 1,2	Luminance: 1 Vp-p 75 ohms Chrominance: 0.286 Vp-p 75 ohms

General

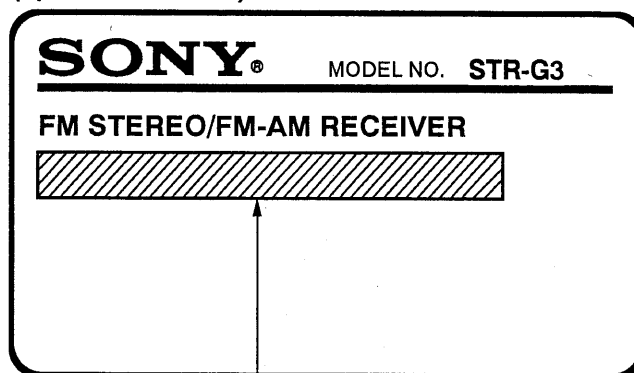
System	Tuner section	PLL quartz-locked digital synthesizer system
	Power amplifier section	Pure-complimentary SEPP
Power requirements		US, Canadian model : 120 V AC, 50/60 Hz PX model : 120, 220 or 240 V AC adjustable, 50/60 Hz
Power consumption		US model : 230 W Canadian model : 325 VA PX model : 250 W
AC outlets		US, Canadian model : 2 switched, total 120 W/1 A max. PX model : 100 W
Dimensions (including projecting parts and controls)		Approx. 430 x 148 x 365 mm (w/h/d) (17 x 5 7/8 x 14 3/4 inches)
Mass		Approx. 10.0 kg (22 lb 1 oz)

Supplied accessories

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander (RM-VP1) (1)
- Sony batteries SUM-3(NS) (2)
- Remote Control (RC) antenna (1)
- IR repeater (1)
- Getting Started and Basic Operation (1)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION (Specification Label)





US, Canadian model : AC 120V 60Hz
PX model : AC 120V/220V/240V-50/60Hz


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SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

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

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

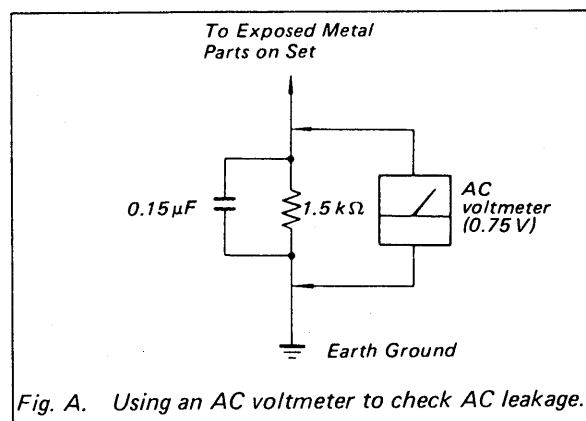
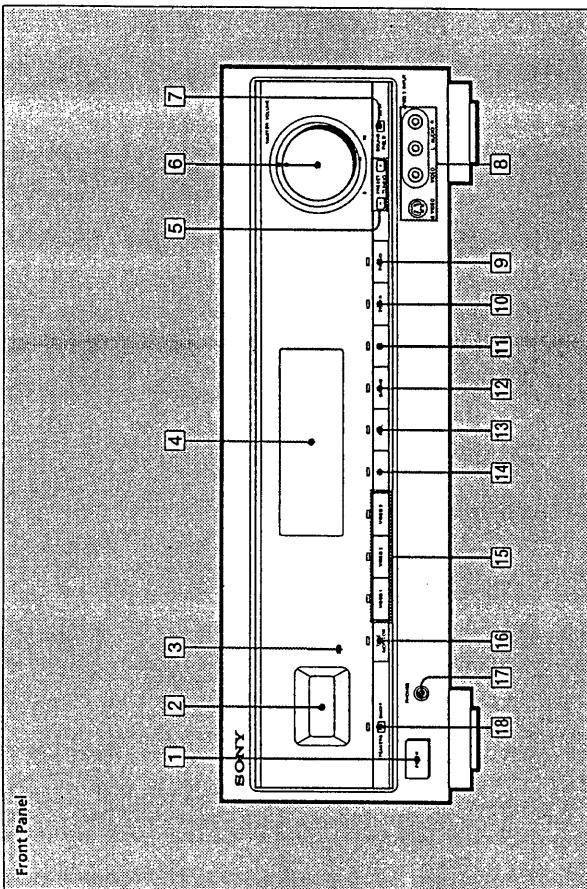


Fig. A. Using an AC voltmeter to check AC leakage.

Identifying the Parts and Controls

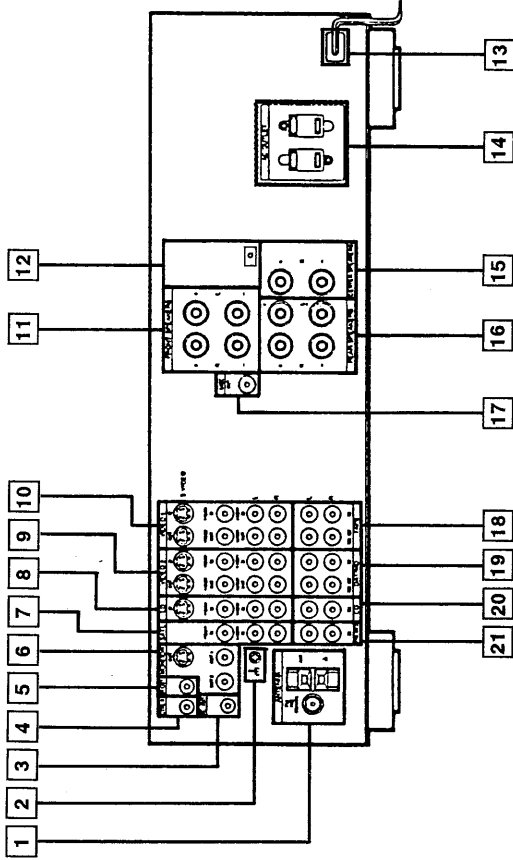


- 1 POWER switch
- 2 Infrared (IR) emitter
Emits IR codes to program sources.
- 3 Infrared (IR) codes setting indicator
Lights up when the unit receives IR codes.
- 4 Display
- 5 PRESET TUNING (+/-) buttons
Shows the program source, function, and tuning frequency, etc.
- 6 MASTER VOLUME control
Adjusts the overall sound volume.
- 7 SOUND FIELD button (ON/OFF)
Turns the sound field on and off.
- 8 VIDEO 3 INPUT jacks
For connecting camcorders or video game units, etc.
- 9 PHONO button
Selects the record player connected to the PHONO jack.
- 10 TUNER button
Selects the tuner.
- 11 CD (Compact Disc) button
Selects the compact disc player connected to the CD jacks.
- 12 DAT/MD (Digital Audio Tape/MiniDisc) button
Selects the DAT deck or MiniDisc deck connected to the DAT/MD jacks.
- 13 SATL button
Selects the DDB receiver connected to the SATL jacks.
- 14 LD (Laser Disc) button
Selects the laser disc player connected to the LD jacks.
- 15 VIDEO 1-3 buttons
Selects the video decks connected to the VIDEO 1-3 jacks.
- 16 TAPE MONITOR button
When pressed, allows monitoring of an audio program source during recording.
- 17 PHONES jack
Connects stereo headphones.
- 18 SPEAKERS button (ON/OFF)
Turns the speakers on and off.

SECTION 1 GENARL

This section is extracted from instruction manual.

[Rear Panel]

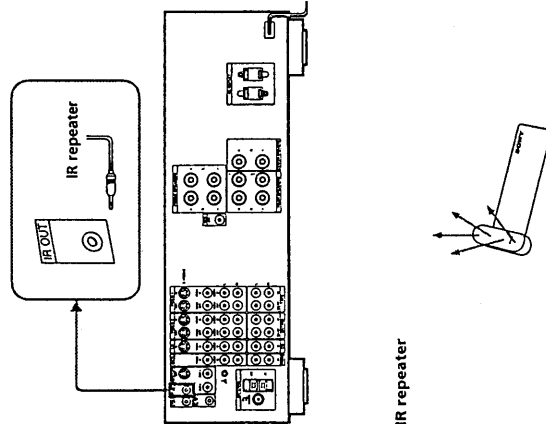


- 1 ANTENNA (AM/FM)
- 2 GROUND terminal
- 3 RC ANT
- 4 CTRL A
- 5 IR OUT
- 6 MONITOR
- 7 SATL
- 8 LD
- 9 VIDEO 2
- 10 VIDEO 1
- 11 FRONT SPEAKERS
- 12 IMPEDANCE SELECTOR
- 13 AC power cord
- 14 AC OUTLET
- 15 CENTER SPEAKER
- 16 REAR SPEAKER
- 17 MIX
- 18 TAPE
- 19 DAT/MD
- 20 CD
- 21 PHONO

Hooking Up the System

Connecting the IR Repeater

If you experience trouble controlling electrical equipment, it may be due to weak infrared (IR) signal transmission from the infrared emitter. In this case, turn off the unit and connect the plug end of the IR repeater to IR OUT on the unit. Then, using the adhesive side of the emitter section, secure the IR repeater so that its front faces the equipment to be controlled.

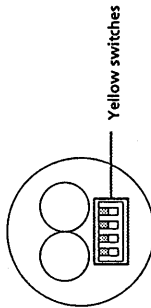


IR repeater

Preventing Interference Between Two or More Remote Commanders

If you use two or more STR-C3s at the same time, interference may occur between the RF signals, causing the units to operate erratically. You can prevent this by giving all units a unique security number which distinguishes the signal of each unit from the others. Follow the procedure below to assign a security number to each unit.

- 1 Turn off the power to the unit.
- 2 Turn on the unit again while simultaneously holding down the PHONO, CD, and TUNER buttons on the front panel. "SECURITY No." appears in the display. Enter a number from 0 to 15 by pressing PHONO, CD or TUNER on the front panel. Make sure that the number is different from the security code of the other units.
- 3 After a few seconds, SECURITY OK! appears, indicating that the code has been recorded.
- 4 Enter the same security number into the remote commander. To do this, open the battery compartment and remove the batteries. You will see a set of yellow switches as shown below.



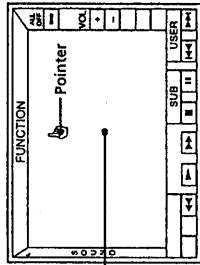
Yellow switches

Use the tip of a pen or some other pointed object to flip up the appropriate switches for each digit of the security number. Note that all switches are down for zero, and all switches are up for fifteen.

SECURITY NO.	Remote commander	SECURITY NO.	Remote commander
0		8	
1		9	
2		10	
3		11	
4		12	
5		13	
6		14	
7		15	

How to Use the Remote Commander

The tip of the remote commander, pointing towards the RC antenna, move it to position the pointer on the on-screen display onto menus and individual operation buttons, then press the click button to operate the selected buttons.



Blank area



Press the click button on the remote commander once or twice to turn on the unit.

Hints on handling the remote commander

- A slight move of the wrist is all you need to direct the pointer. (See illustration above.)
- Hold the remote commander with its "click" button facing up, as shown below. If the click button is oriented diagonally, the pointer on the screen will also be oriented diagonally.



The remote commander will not operate if you move along a flat plane as shown below.



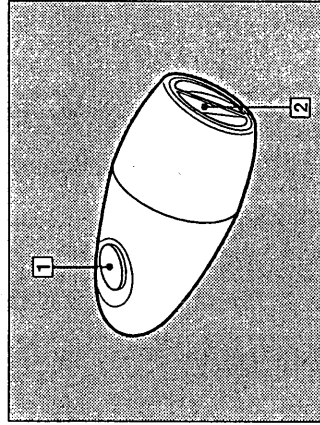
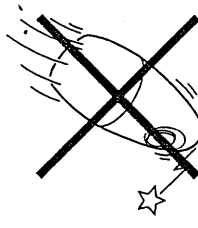
- If you place the remote commander on a flat surface, the on-screen display will disappear after a few seconds. To make the on-screen display disappear faster, position the pointer on a blank area, keep the click button pressed as the display disappears, then place the remote commander on a flat surface and release the click button. The on-screen display will reappear each time you touch or press the click button on the remote commander.

Notes

- The position of the pointer freezes when you hold down the click button.
- If the pointer begins drifting on the screen even while the remote commander is stationary, place the remote commander on a flat surface until the on-screen display disappears. The pointer should behave normally the next time you use the remote.
- If your hand is very dry, the on-screen display may not appear when you touch the click button. In this case, press the click button.

Caution

Since the remote commander contains delicate circuitry and parts, do not subject it to sudden changes in temperatures or to shock.



1 Click button
Press this button to activate a button or select a menu item on the screen.

2 Battery compartment
Insert batteries here. (See page 7.)

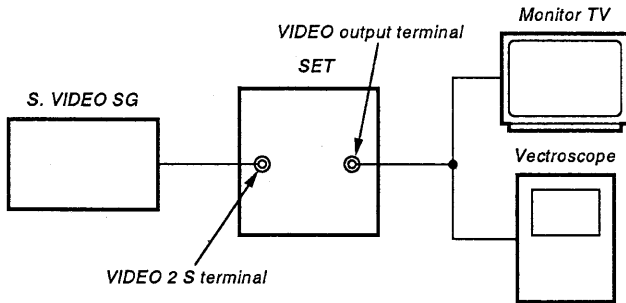
Note

If the on-screen display does not appear even when batteries are inserted into the remote commander, reinsert the batteries and place the remote commander on a flat surface for about 10 seconds.

SECTION 2 ELECTRICAL ADJUSTMENTS

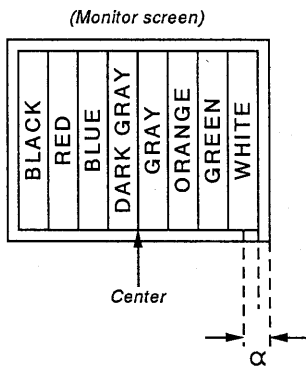
2-1. OSD ADJUSTMENT

Setting :

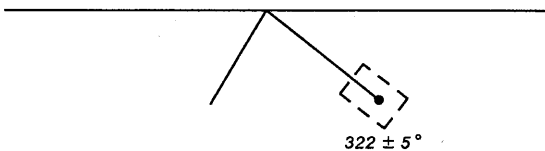


Procedure :

1. Connect the frequency counter to terminal TP201.
2. Turn the POWER switch ON, press VIDEO 1 and set the function to VIDEO 1. (The input signal set to OFF.)
3. Turn the POWER switch OFF, keep the LD, SATL, DAT/MD buttons depressed at the same time and then turn the POWER switch ON.
4. Check that the screen shows only the color bars, and then adjust CT202 so that the reading becomes $14.318181\text{MHz} \pm 180\text{kHz}$.
5. Adjust CT201 so that the right edge of the color bars on the screen comes within the frame.



6. Use the vectroscope to adjust RV201 so that the hue of the blue color becomes $322 \pm 5^\circ$



2-2. ADJUSTMENT IN CASE THE OSD SCREEN TENDS TO GO TO THE LEFT AND RIGHT OR UP AND DOWN

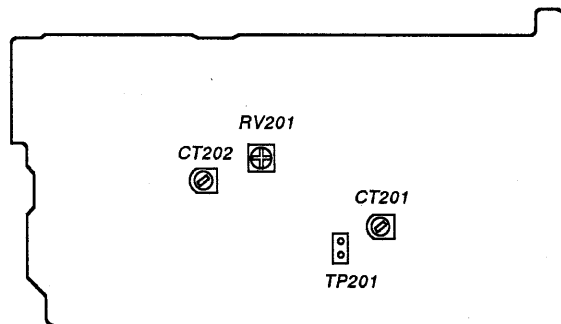
Procedure :

1. Turn the POWER switch OFF, keep the LD, SATL, DAT/MD buttons depressed at the same time and then turn the POWER switch ON.
2. The color bars will be displayed on the monitor screen, and "ADJUSTMENT HORIZONTAL 0" will be displayed on the FL tube.
3. When pressing the PRESET - , + buttons, the monitor screen will move in the left or right direction. When pressing the SOUND FIELD button, "ADJUSTMENT VERTICAL 0" will be displayed and the screen will move up or down.
4. In case the OSD screen is off set and operation is difficult and when pressing the $\triangleright\triangleright$ (FF) button on a VTR of another manufacturer, the OSD screen will move downward and then it may be difficult to see the pointer. At this time, it can be lowered by setting it to the upper position.

2-3. INITIALIZATION OF THE MICROCOMPUTER

Keep the TAPE and VIDEO button depressed simultaneously and then turn the POWER switch ON.

Adjustment Location : OSD board (Component side)



SECTION 3 EXPLANATION OF IC TERMINALS

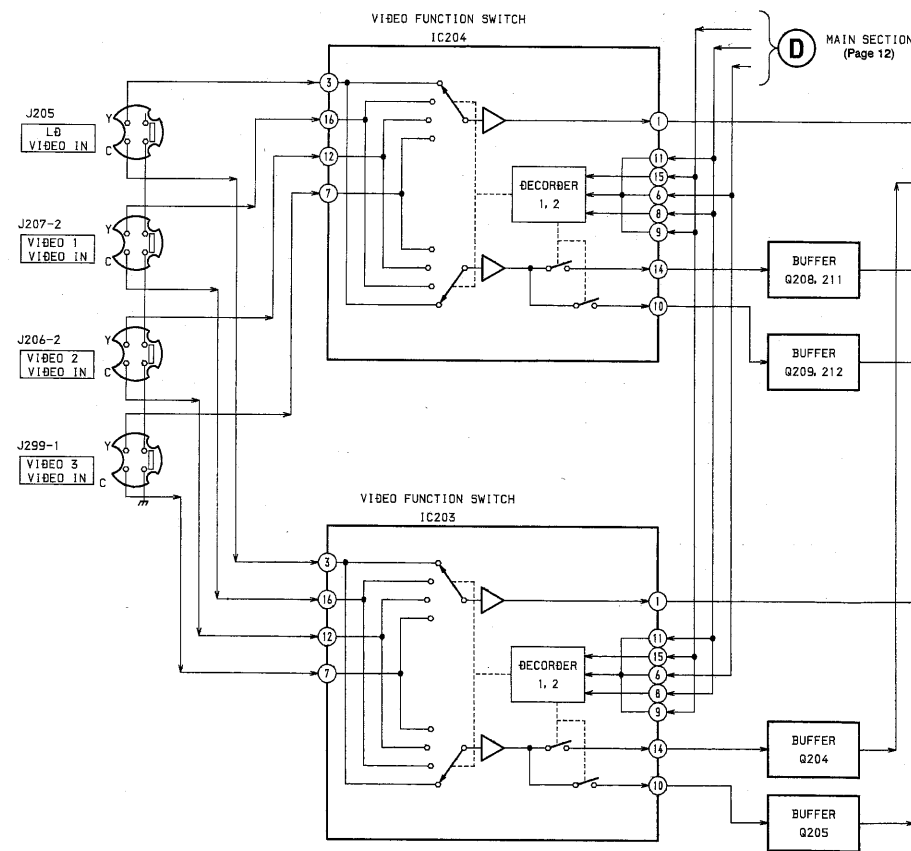
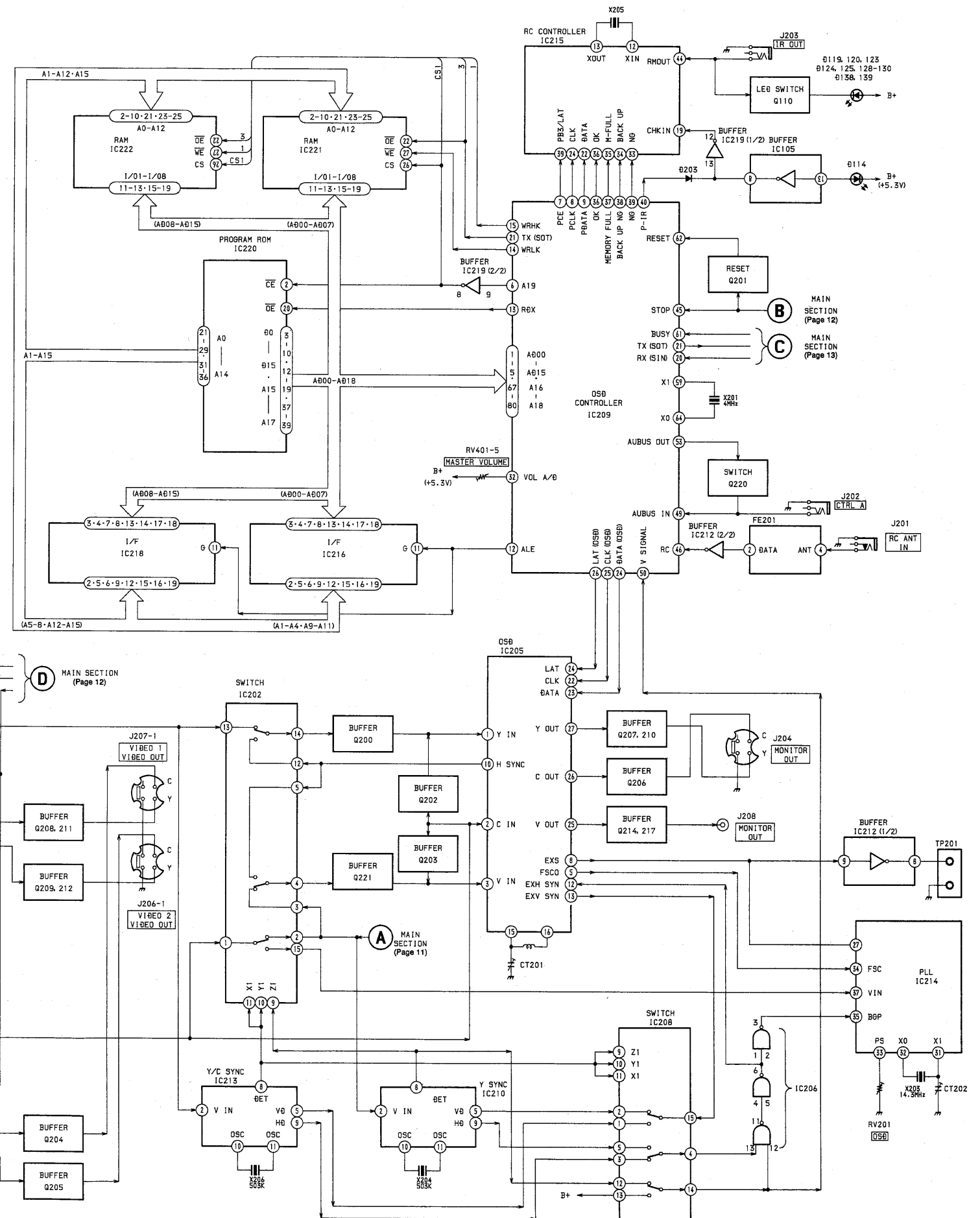
IC107 MB90673PF-G-113-BND

Pin No.	Pin name	I/O	Description
1	V-A	O	VIDEO A control terminal.
2	V-B	O	VIDEO B control terminal.
3	KI0	I	Key in 0.
4	KI1	I	Key in 1.
5	KI2	I	Key in 2.
6	KI3	I	Key in 3.
7	KI4	-	Not used. (Low level)
8	KI5	-	Not used. (Low level)
9	KI6	-	Not used. (Low level)
10	IF DAT IN	I	PLL data input terminal.
11	V _{ss} (D)	-	Digital for power supply. (GND)
12	FL•LAT	O	FL latch output.
13	P•RY	O	Power relay drive.
14	RM INPUT	I	SIRCS signal input terminal.
15	BRIG RY	O	Bridgable relay drive.
16	SUR RY	O	Surround relay drive.
17	CENTER RY	O	Center relay drive.
18	FRONT RY	O	Speaker relay drive.
19	HP•RY	O	Phones realy drive.
20	RX (SIN)	I	Surround signal input.
21	TX (SOUT)	O	Output signal input.
22	BUSY	O	Busy signal output.
23	$\overline{\text{FL}}\cdot\text{CLR}$	O	FL clear.
24	FL•DATA	O	FL data output.
25	FL•CLK	O	FL clock output.
26	PROT IN	I	Protector DET input.
27	4/8•INPUT	I	4-8 in.
28	V _{cc} (A)	-	Analog for power supply. (+5V)
29	+AVREF	-	Reference voltage. (+5V)
30	- AVREF	-	Reference voltage. (GND)
31	GND	-	Digital for power supply. (+5V)
32	SIGNAL IN	I	A/D signal input terminal.
33	NC	-	Not used. (GND)
34	V _{ss} (D)	-	Digital for power supply. (GND)
35	A/D KEY IN	I	A/D key input.
36	NC	-	Not used. (OPEN)
37	VOL LED	O	Volume LED drive output.
38	VOL UP	O	Volume + control.
39	VOL DOWN	O	Volume - control.
40	- 20dB	O	- 20dB mute.

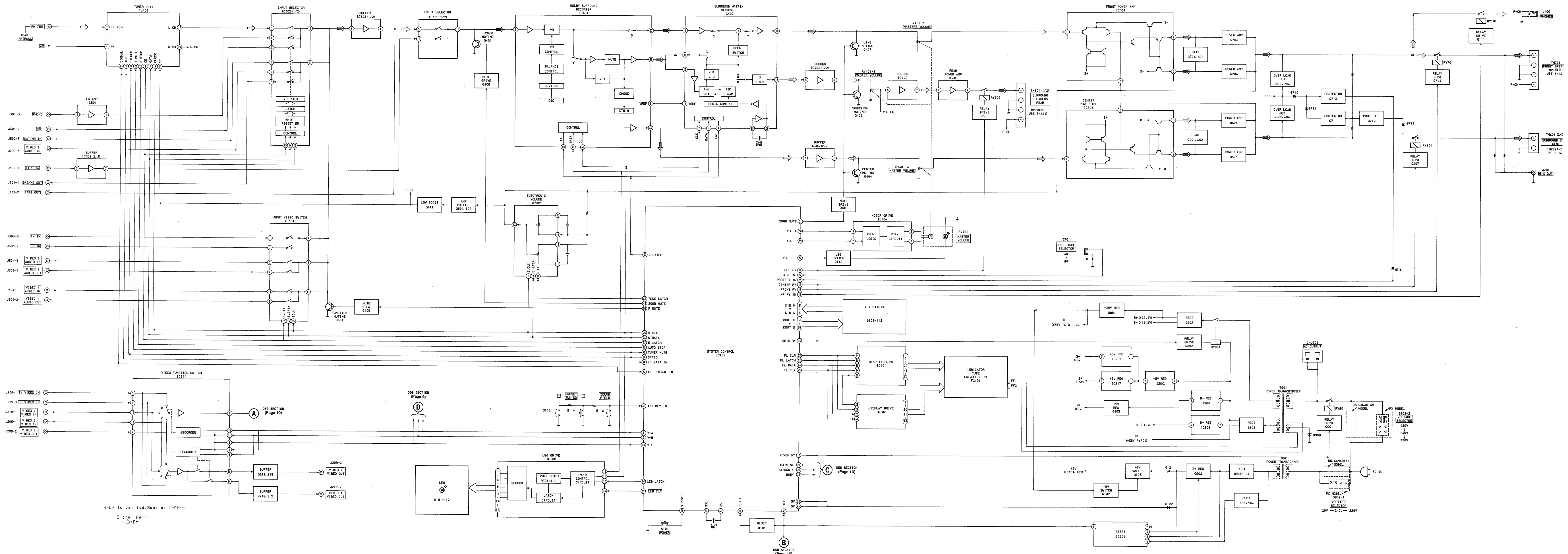
Pin No.	Pin name	I/O	Description
41	MODE 0	I	Mode select terminal. (Connected to +5V)
42	MODE 1	I	Mode select terminal. (Connected to +5V)
43	MODE 2	I	Mode select terminal. (Connected to GND)
44	STANDBY	I	Standby terminal. (+5V)
45	STOP	I	Stop in.
46	V-INH	O	Video inhibit output. (OPEN)
47	RDS DATA	I	RDS data input.
48	RDS CLK	I	RDS clock input.
49	V-E	O	Video E control.
50	F•MUTE	O	Function mute control.
51	S•MUTE	O	Surround mute control.
52	D•LAT	O	Surround data latch output.
53	KO0	O	Key out 0.
54	KO1	O	Key out 1.
55	KO2	O	Key out 2.
56	KO3	O	Key out 3.
57	KO4	O	Key out 4.
58	KO5	O	Key out 5.
59	NC	–	Not used. (OPEN)
60	NC	–	Not used. (OPEN)
61	T•LAT	O	Tone latch output.
62	RESET	I	System reset terminal.
63	V _{ss} (D)	–	Digital for power supply. (GND)
64	XO	O	System clock OSC. (4.0MHz)
65	XI	I	System clock OSC. (4.0MHz)
66	V _{cc} (D)	–	Digital for power supply. (+5V)
67	$\overline{\text{LED CLR}}$	O	LED data output.
68	NC	–	Not used. (Connected to GND)
69	NC	–	Not used. (Connected to GND)
70	NC	–	Not used. (Connected to GND)
71	NC	–	Not used. (Connected to GND)
72	NC	–	Not used. (Connected to GND)
73	S• POWER	I	Power key input terminal.
74	LED LAT	O	LED latch output.
75	S CLK	O	Serial clock output.
76	S• DATA	O	Serial data output.
77	S LAT	O	Serial latch output.
78	AUTO STOP	I	Auto stop DET.
79	T•MUTE	O	Tuner mute control output.
80	STEREO	I	Stereo DET.

**SECTION 4
DIAGRAMS**

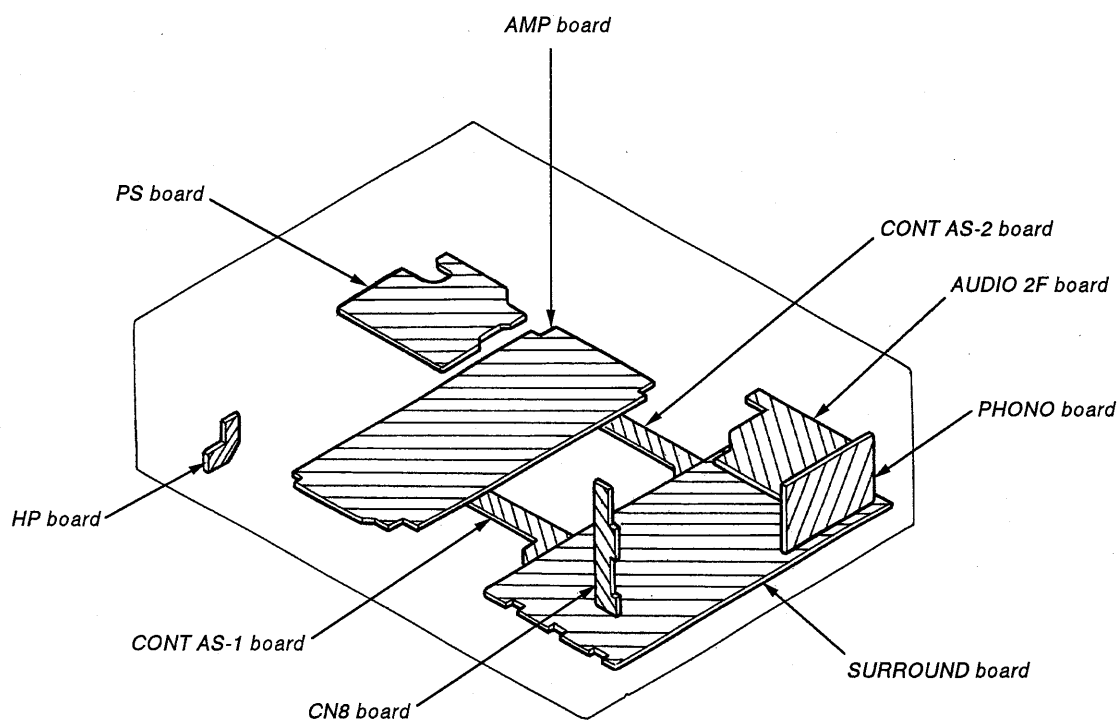
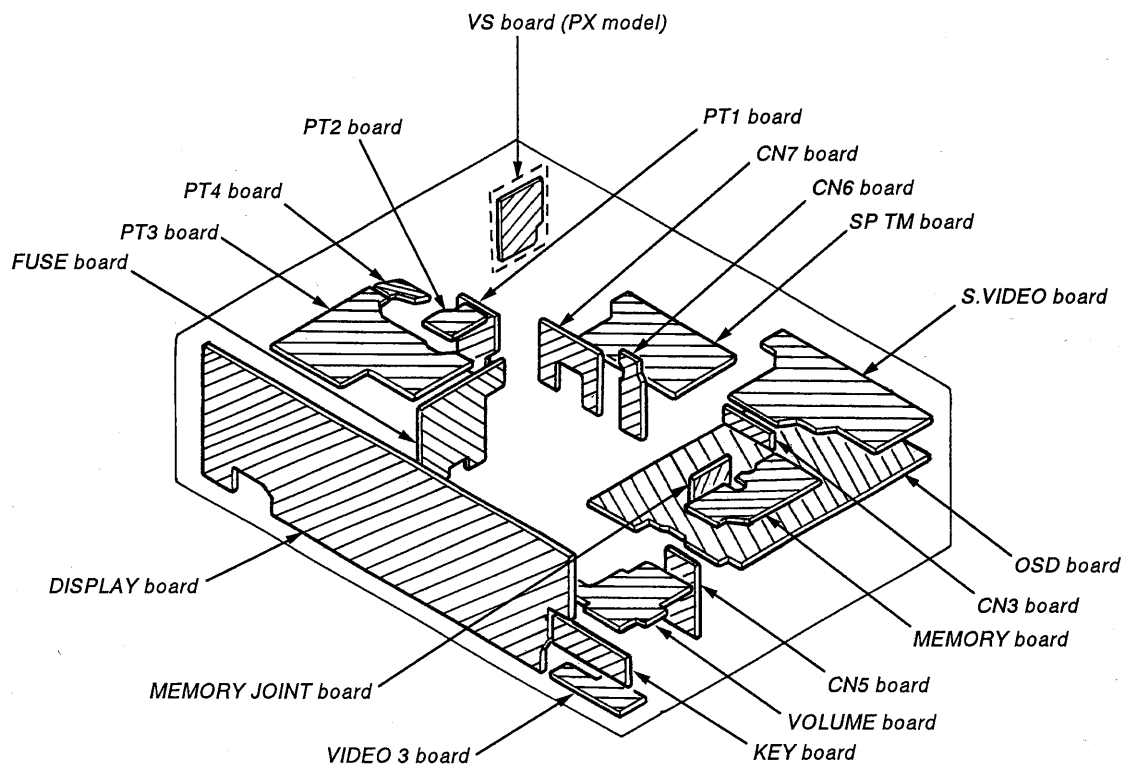
4-1. BLOCK DIAGRAM (OSD SECTION)



4-2. BLOCK DIAGRAM (MAIN SECTION)



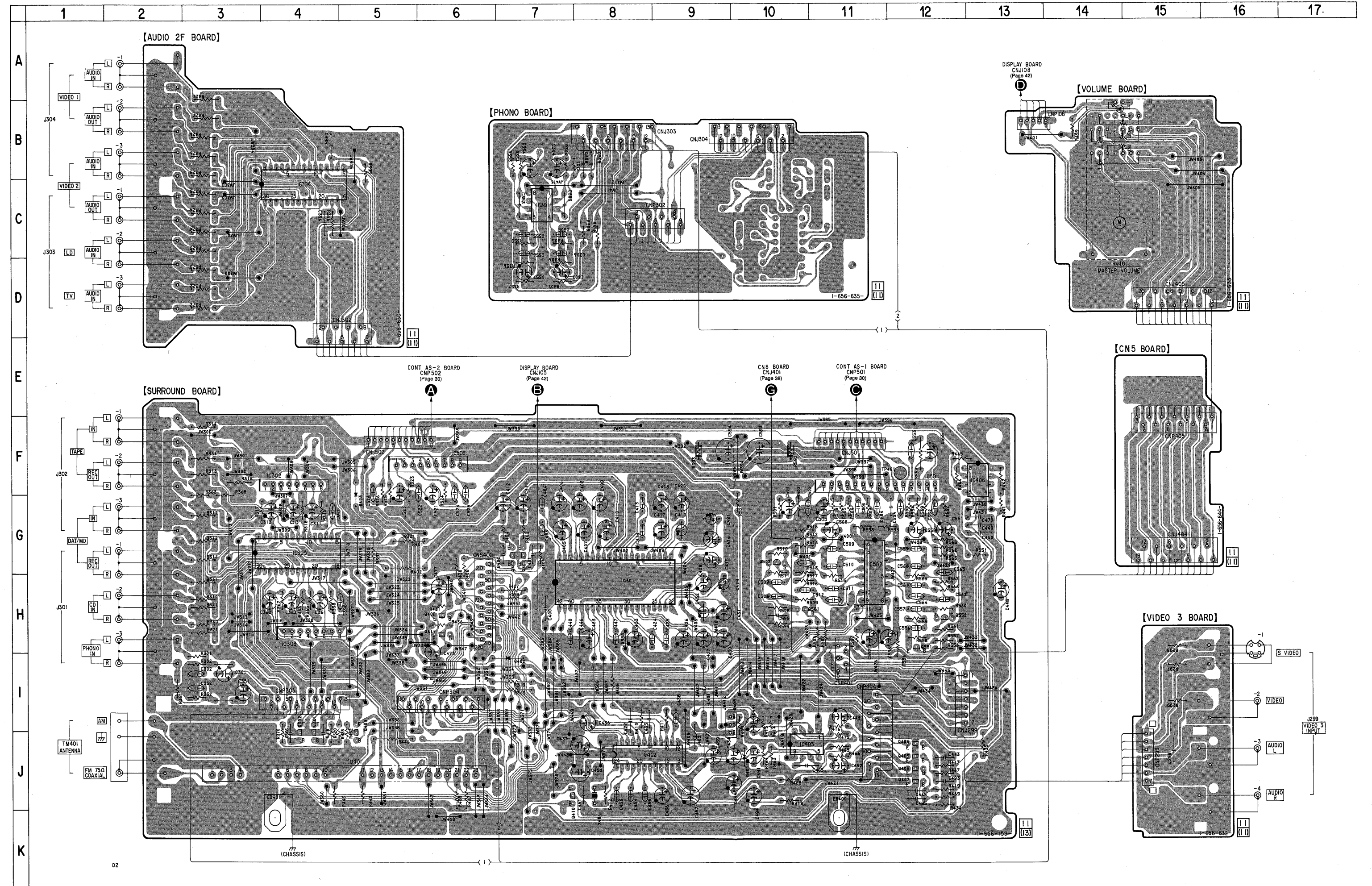
4-3. CIRCUIT BOARDS LOCATION



4-4. PRINTED WIRING BOARDS (SURROUND SECTION)

• SEMICONDUCTOR LOCATION

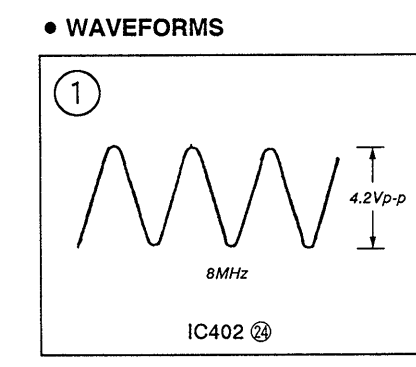
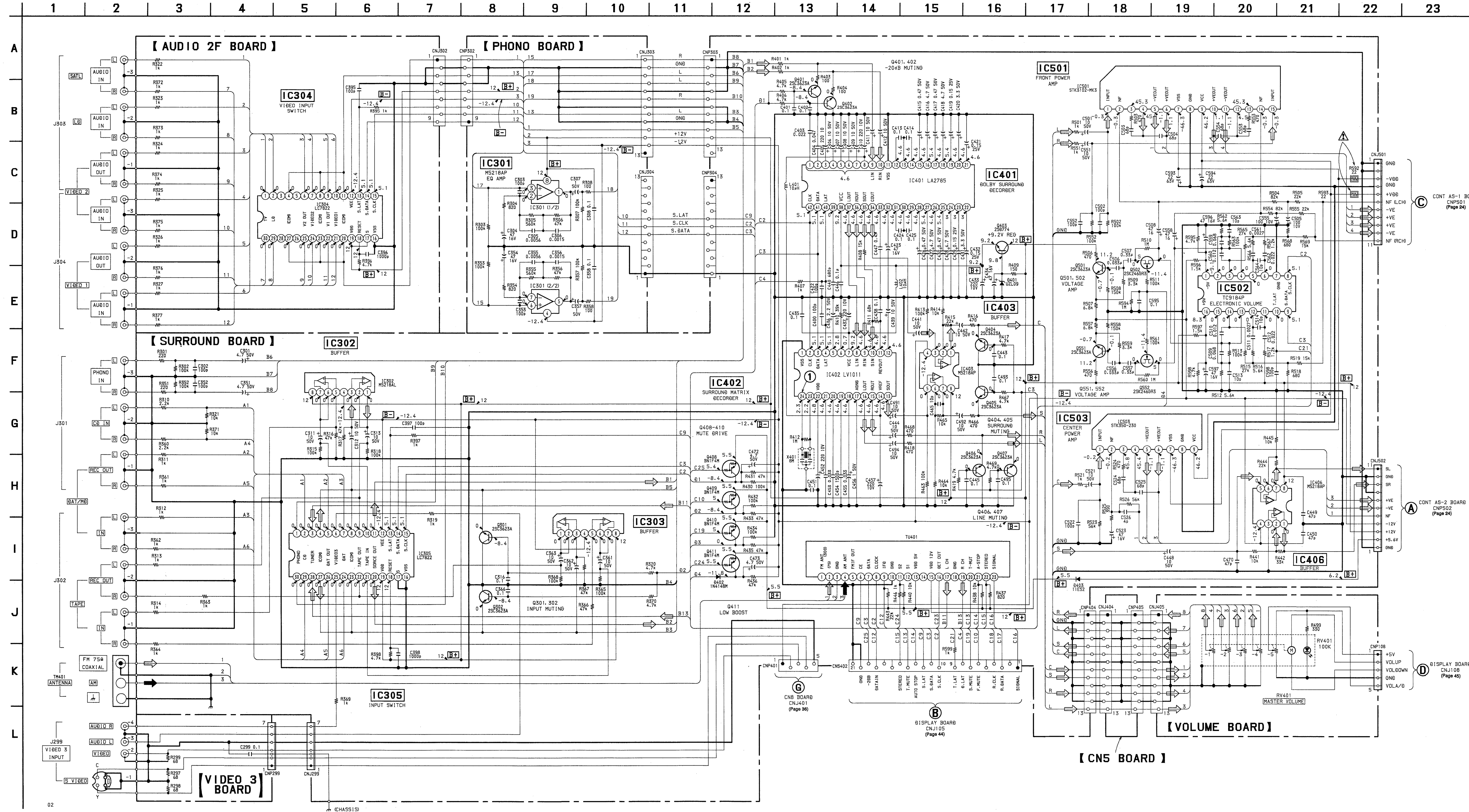
Ref. No.	Location	Ref. No.	Location
D401	J - 10	Q402	G - 7
D402	I - 7	Q403	I - 9
D403	G - 5	Q404	J - 12
		Q405	J - 12
		Q406	J - 12
IC301	C - 7	Q407	J - 12
IC302	F - 4	Q408	H - 6
IC303	H - 4	Q409	J - 5
IC304	C - 3	Q410	J - 7
IC305	G - 4	Q411	H - 6
IC401	H - 8	Q501	H - 10
IC402	J - 8	Q502	G - 10
IC403	J - 10	Q551	H - 12
IC406	F - 13	Q552	H - 12
IC501	F - 11		
IC502	G - 11		
IC503	F - 6		



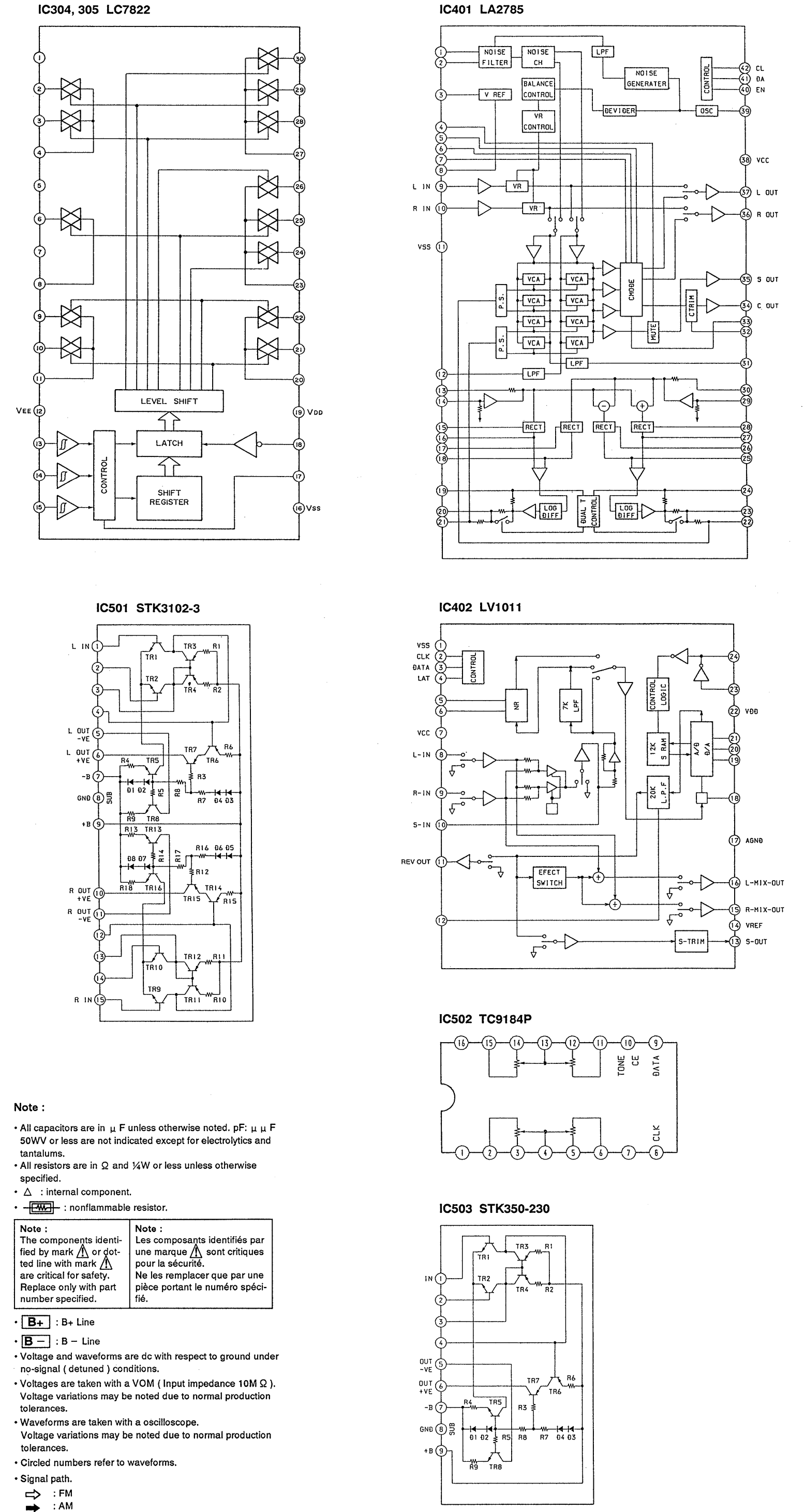
Note:

- — : parts extracted from the component side.
- ⊙ : Pattern on the side which is seen.

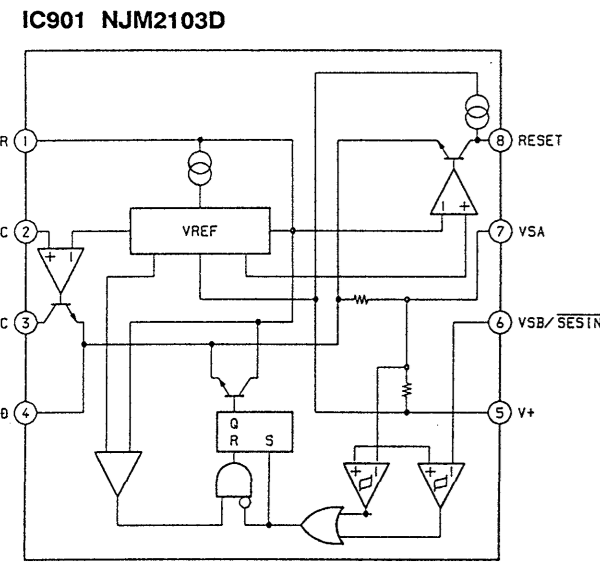
4-5. SCHEMATIC DIAGRAM (SURROUND SECTION)



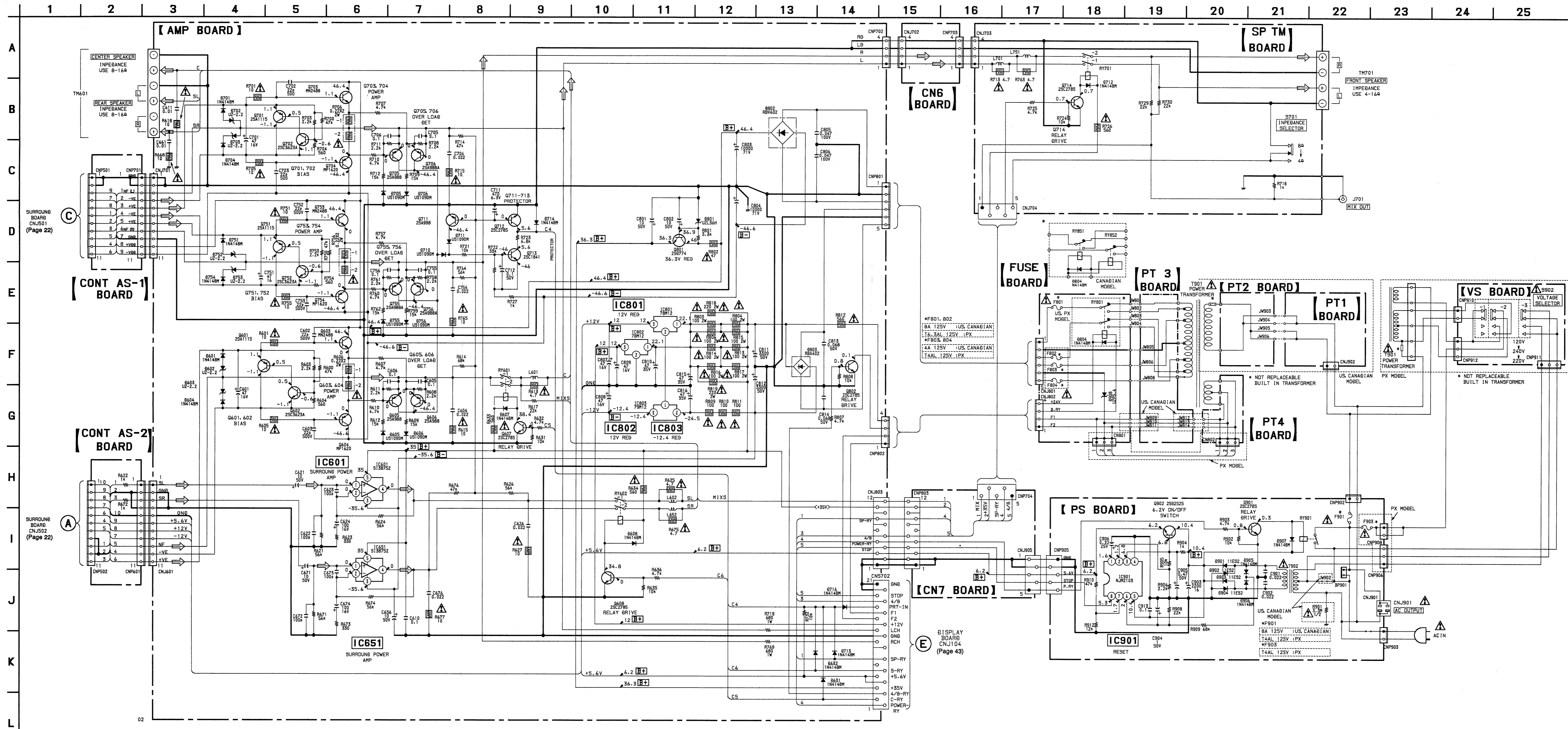
• IC BLOCK DIAGRAMS - SURROUND SECTION -



• IC BLOCK DIAGRAM - AMP SECTION -



4-6. SCHEMATIC DIAGRAM (AMP SECTION)



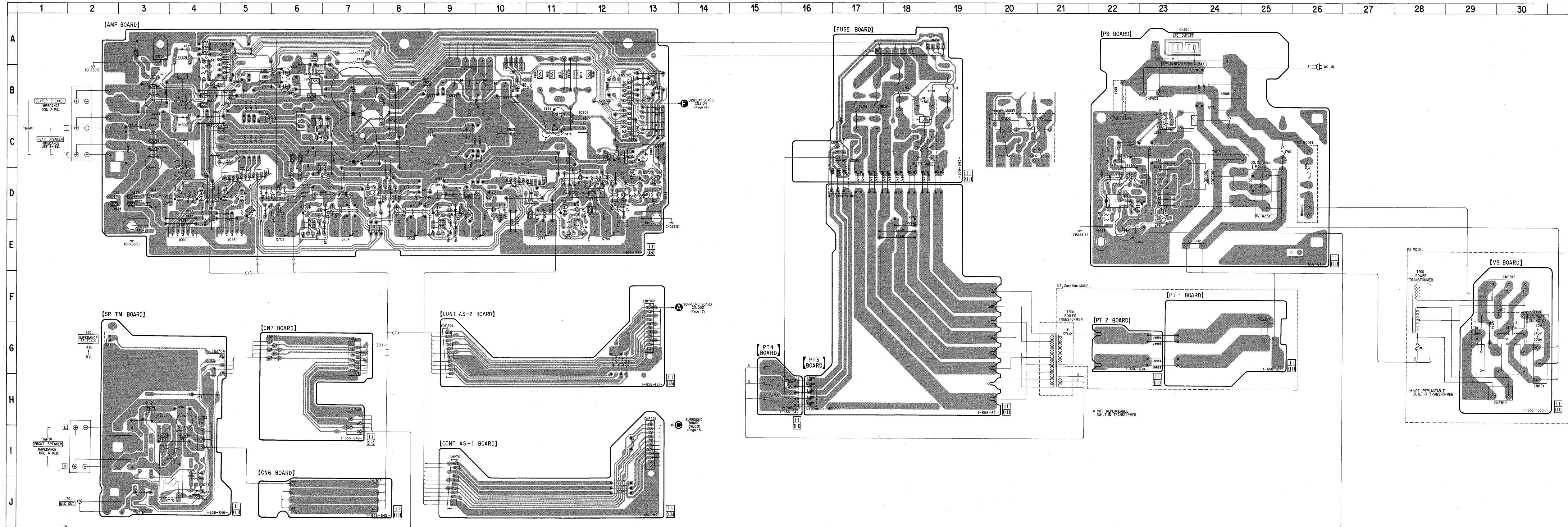
Note :
• All capacitors are in μ F unless otherwise noted. pF, μ F, μ F 50WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
• \square : nonflammable resistor.

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

Note :
Les composants identifiés par une marque Δ ou une ligne pointillée avec une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• \square : B+ Line
• \square : B- Line
• Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
• Signal path
• \rightarrow : FM

4-7. PRINTED WIRING BOARDS (AMP SECTION)

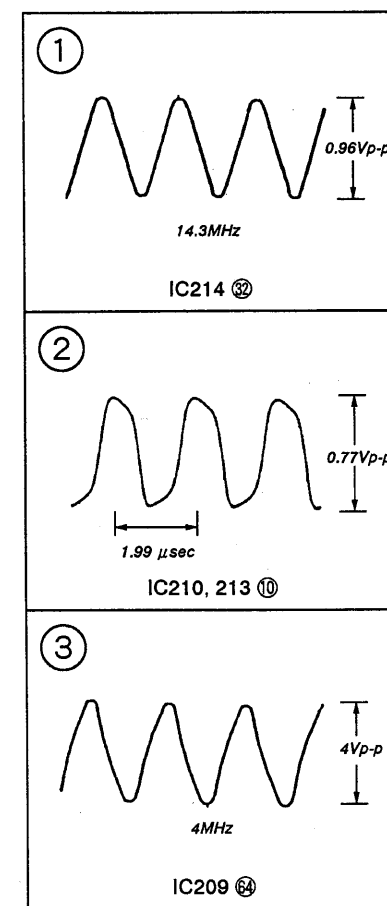


• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D601	D-8	IC601	E-4
D602	D-8	IC651	E-5
D603	D-9	IC801	B-5
D604	D-9	IC802	C-12
D605	D-10	IC803	B-6
D606	D-8	IC901	D-22
D607	A-4		
D608	C-4		
D631	B-13	Q301	J-4
D632	B-13	Q302	J-4
		Q401	G-7
		Q601	D-9
		Q602	E-9
D701	D-5		
D702	D-5		
D703	D-7		
D704	E-7	Q603	E-8
D705	D-8	Q604	E-10
		Q605	D-10
		Q606	D-8
D706	C-6	Q607	A-4
D710	D-13		
D711	D-13		
D712	J-4	Q608	B-4
D713	C-13	Q701	D-6
		Q702	E-6
D714	C-13	Q703	E-6
D716	C-13	Q704	E-7
D751	D-11		
D752	D-11	Q705	D-7
D753	D-12	Q706	D-6
		Q711	D-13
		Q712	D-13
		Q713	D-13
D754	E-12		
D755	D-12		
D756	D-12		
D801	C-12	Q714	J-4
D802	B-10	Q751	D-12
		Q752	E-11
D803	B-8	Q753	E-11
D804	B-18	Q754	E-12
D901	C-23		
D902	D-23	Q755	D-12
D903	D-23	Q756	D-12
		Q801	C-13
D904	D-23	Q802	B-10
D905	D-23	Q901	B-23
D906	D-23		
D907	C-23	Q902	D-23
D908	D-17		

Note:
 ○ : parts extracted from the component side.
 ◐ : Pattern on the side which is seen.

WAVEFORMS



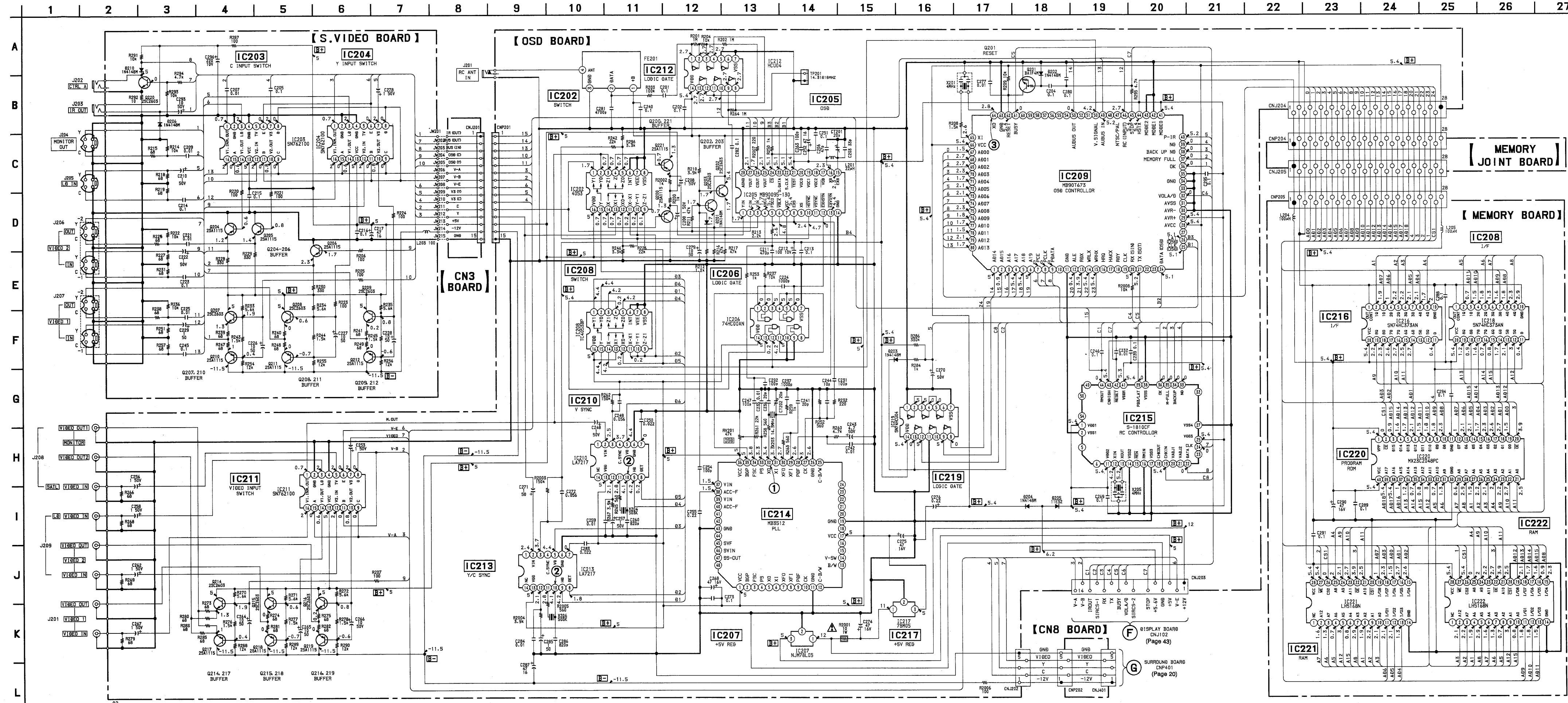
Note:

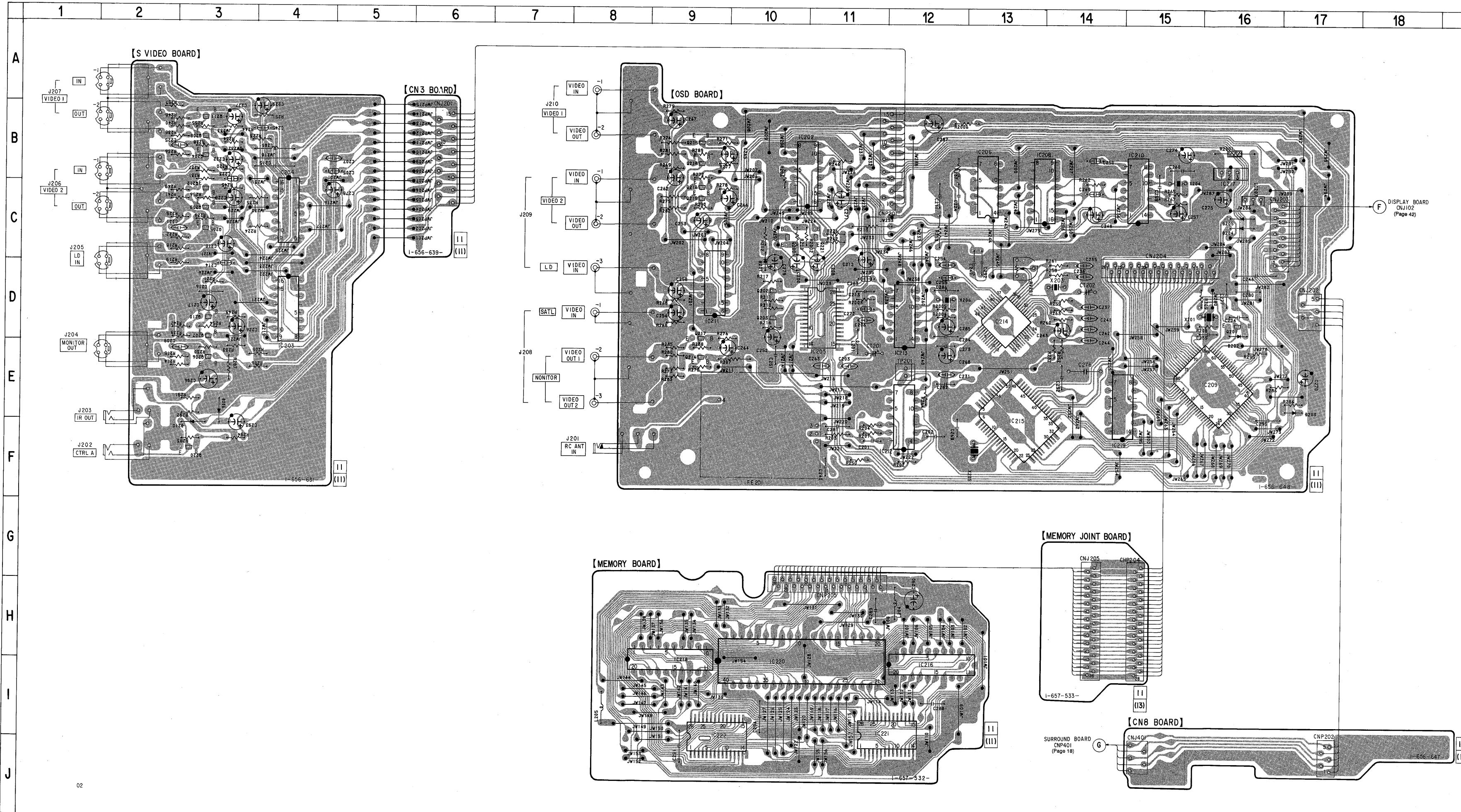
- All capacitors are in μ F unless otherwise noted. pF: μ F
- All resistors are in Ω and $\frac{1}{2}W$ or less unless otherwise specified.
- Δ : internal component.
- \square : nonflammable resistor.

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

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

- $B+$: B+ Line
- $B-$: B- Line
- \square : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). 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.





• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D201	C-10	IC220	I-10
D202	D-16	IC221	I-11
D203	E-17	IC222	I-9
D204	C-16		
D205	C-16		
		Q200	C-10
D206	E-3	Q201	D-16
D210	F-3	Q202	D-10
		Q203	D-10
		Q204	B-3
IC202	B-10	Q205	C-3
IC203	D-4	Q206	E-3
IC204	D-4	Q207	D-3
IC205	E-11	Q208	B-3
IC506	B-13	Q209	C-3
IC207	C-16	Q210	D-3
IC208	B-13	Q211	B-3
IC209	E-16	Q212	C-3
IC210	B-15	Q213	E-9
IC211	D-9	Q214	B-9
		Q215	B-9
IC212	F-12	Q216	C-9
IC213	D-12	Q217	D-9
IC214	D-13	Q218	B-9
IC215	E-13	Q219	C-9
IC216	I-12	Q220	F-3
IC217	B-16	Q221	C-11
IC218	H-9		
IC219	E-14		

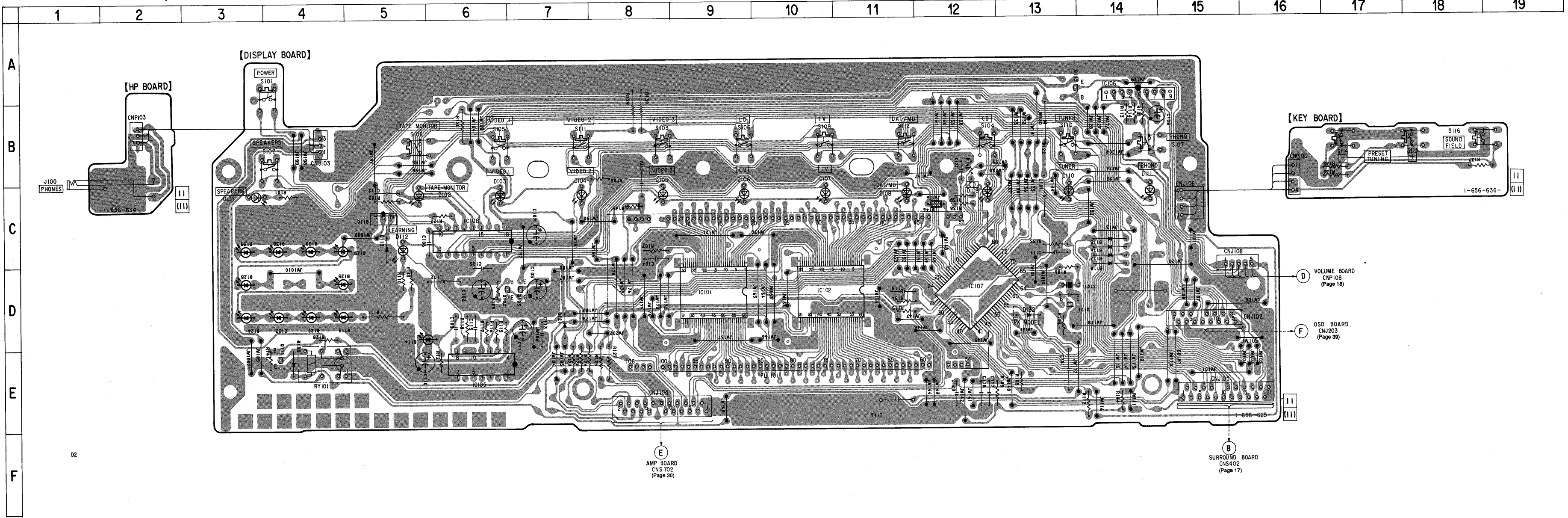
Note:

- : parts extracted from the component side.
- ⊙ : Pattern on the side which is seen.

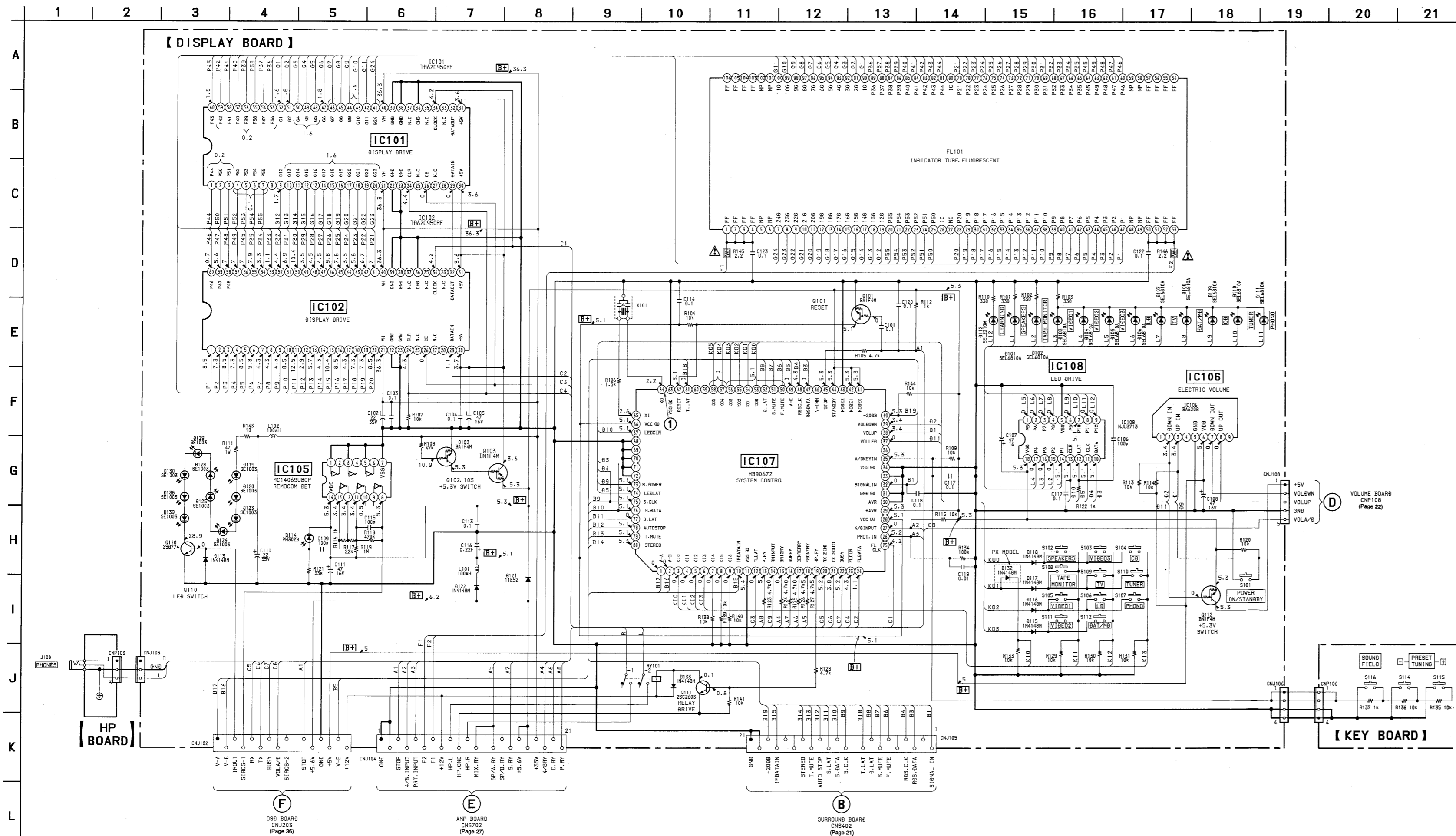
4-10. PRINTED WIRING BOARDS (DISPLAY SECTION)

• SEMICONDUCTOR LOCATION

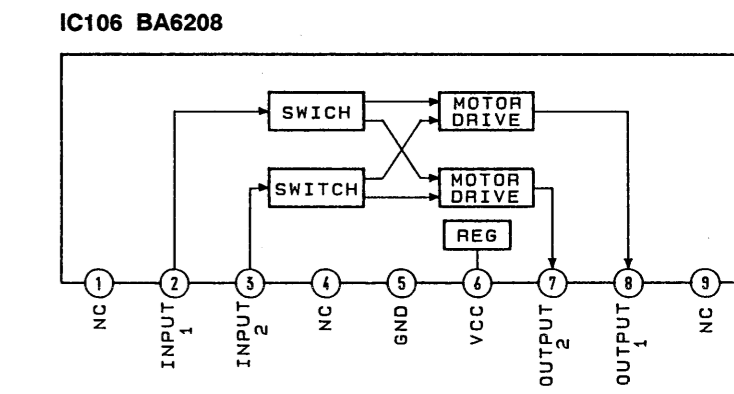
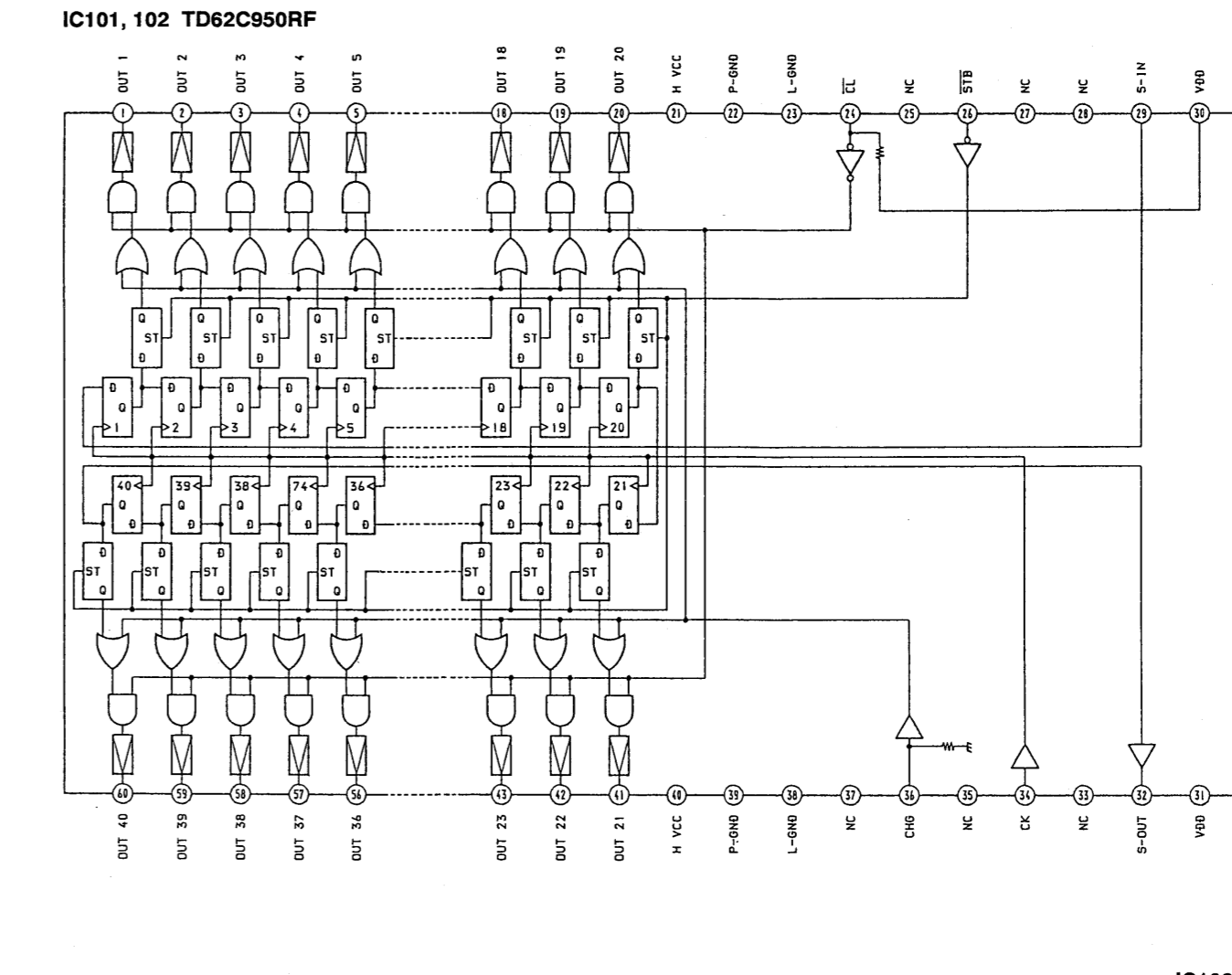
Ref. No.	Location	Ref. No.	Location
D101	C-3	D125	D-4
D102	C-5	D128	D-3
D103	C-6	D129	C-4
D104	C-7	D130	C-4
D105	C-8	D132	D-13
D106	C-9	D133	E-4
D107	C-10	D138	C-4
D108	C-11	D139	C-3
D109	C-12		
D110	C-13		
D111	C-14	IC101	D-9
D112	C-5	IC102	D-10
D113	C-5	IC105	E-6
D114	D-5	IC106	A-14
D115	C-14	IC107	D-12
D116	C-14	IC108	C-6
D117	C-14		
D118	C-14	Q101	D-13
D119	D-4	Q102	D-6
D120	D-4	Q103	D-7
D121	D-7	Q110	C-10
D122	B-13	Q111	E-7
D123	D-4		
D124	D-3	Q112	A-13



Note:
 • ○ — : parts extracted from the component side.
 • ■ ■ ■ ■ : Pattern on the side which is seen.



IC BLOCK DIAGRAMS - DISPLAY SECTION -

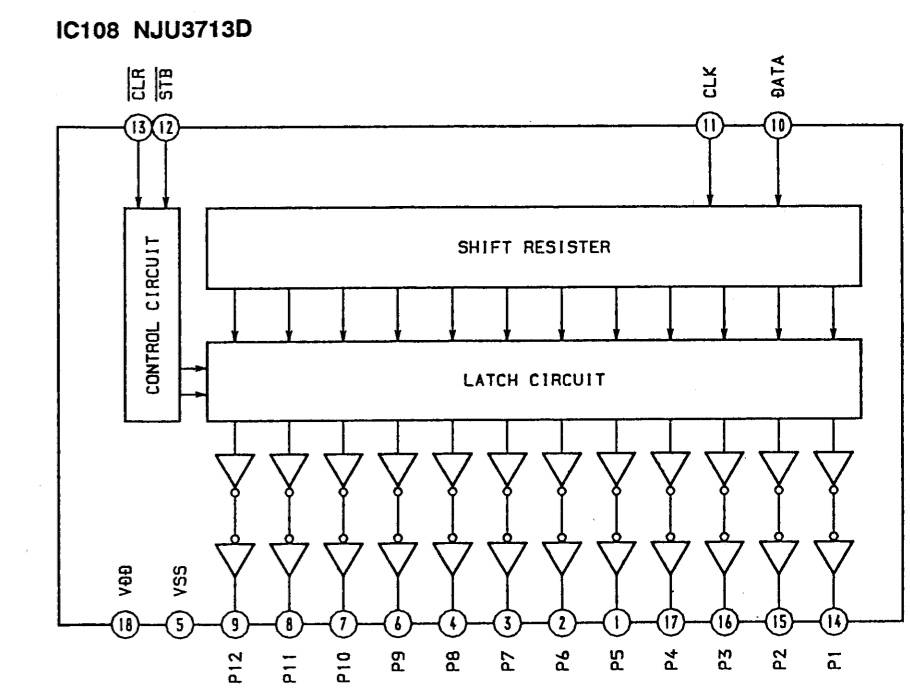
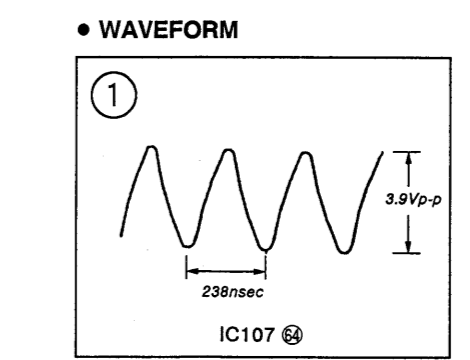


Note :

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

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

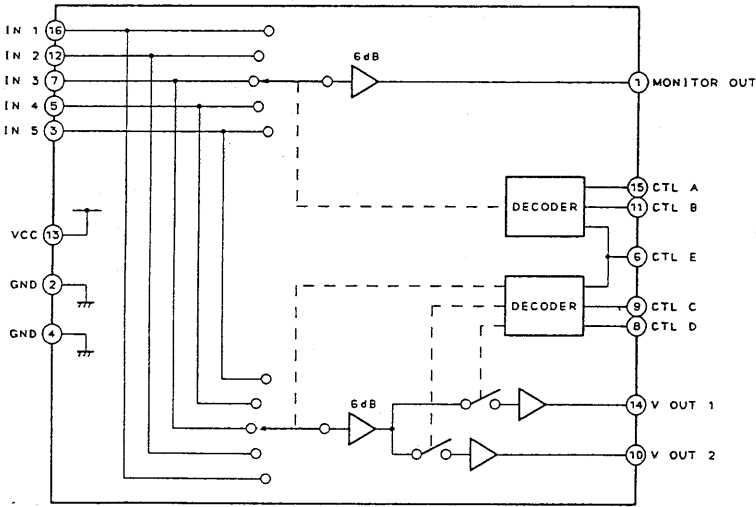
Note : Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



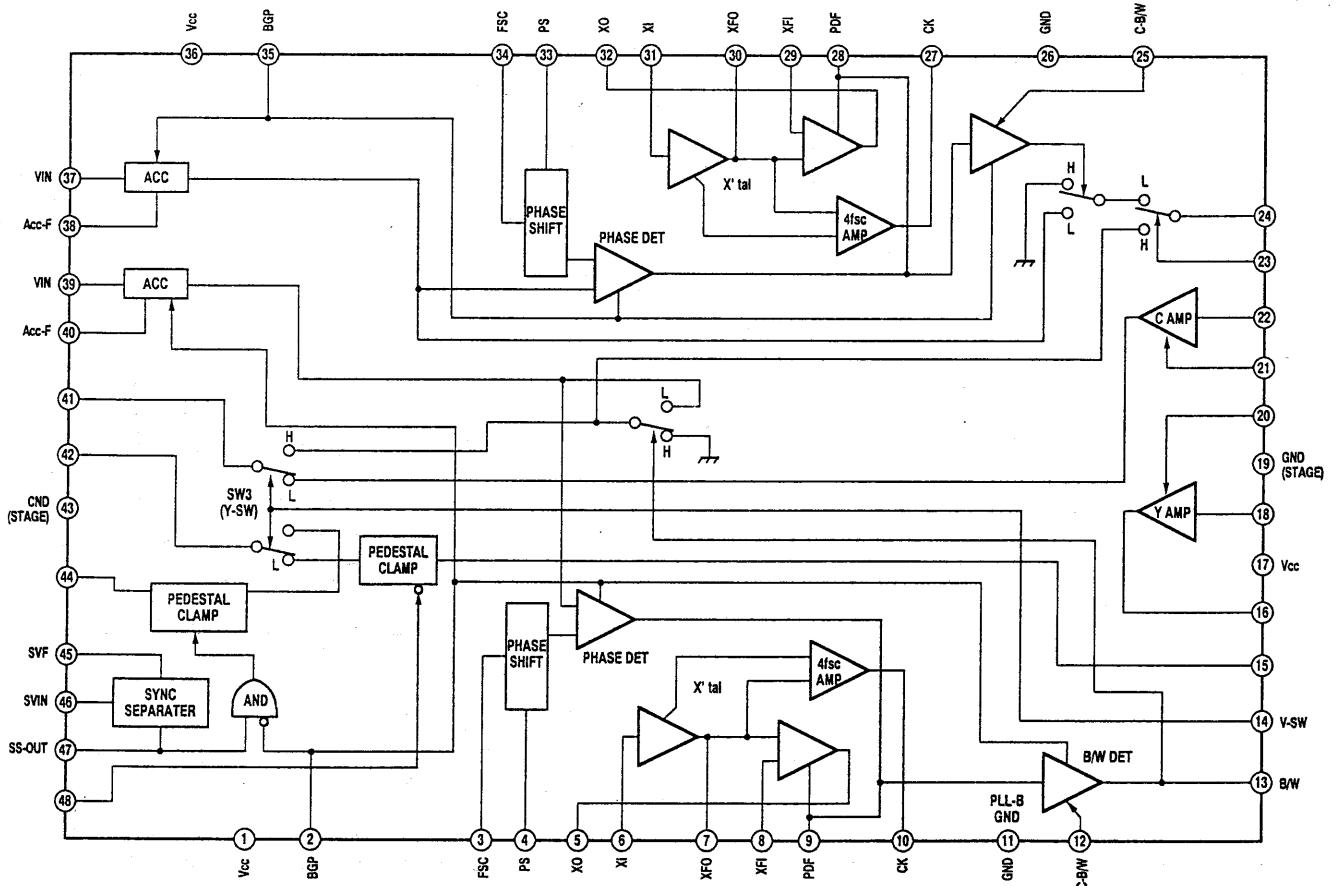
- B+** : B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Volatges are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

• IC BLOCK DIAGRAMS – OSD SECTION –

IC203, 204, 211 SN761200



IC214 MB3512PFQ






SECTION 5 EXPLODED VIEWS

NOTE :

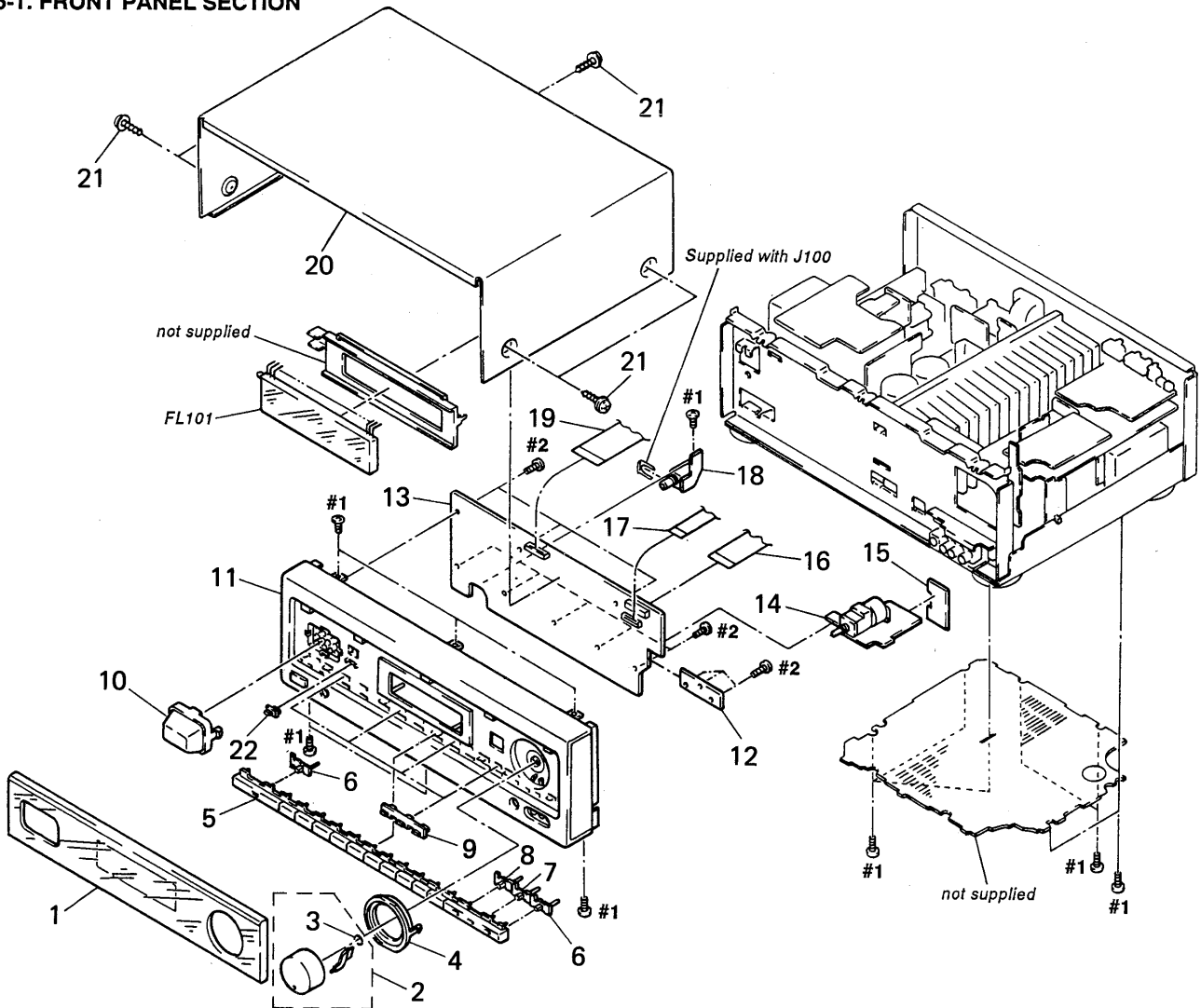
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- 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.

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.

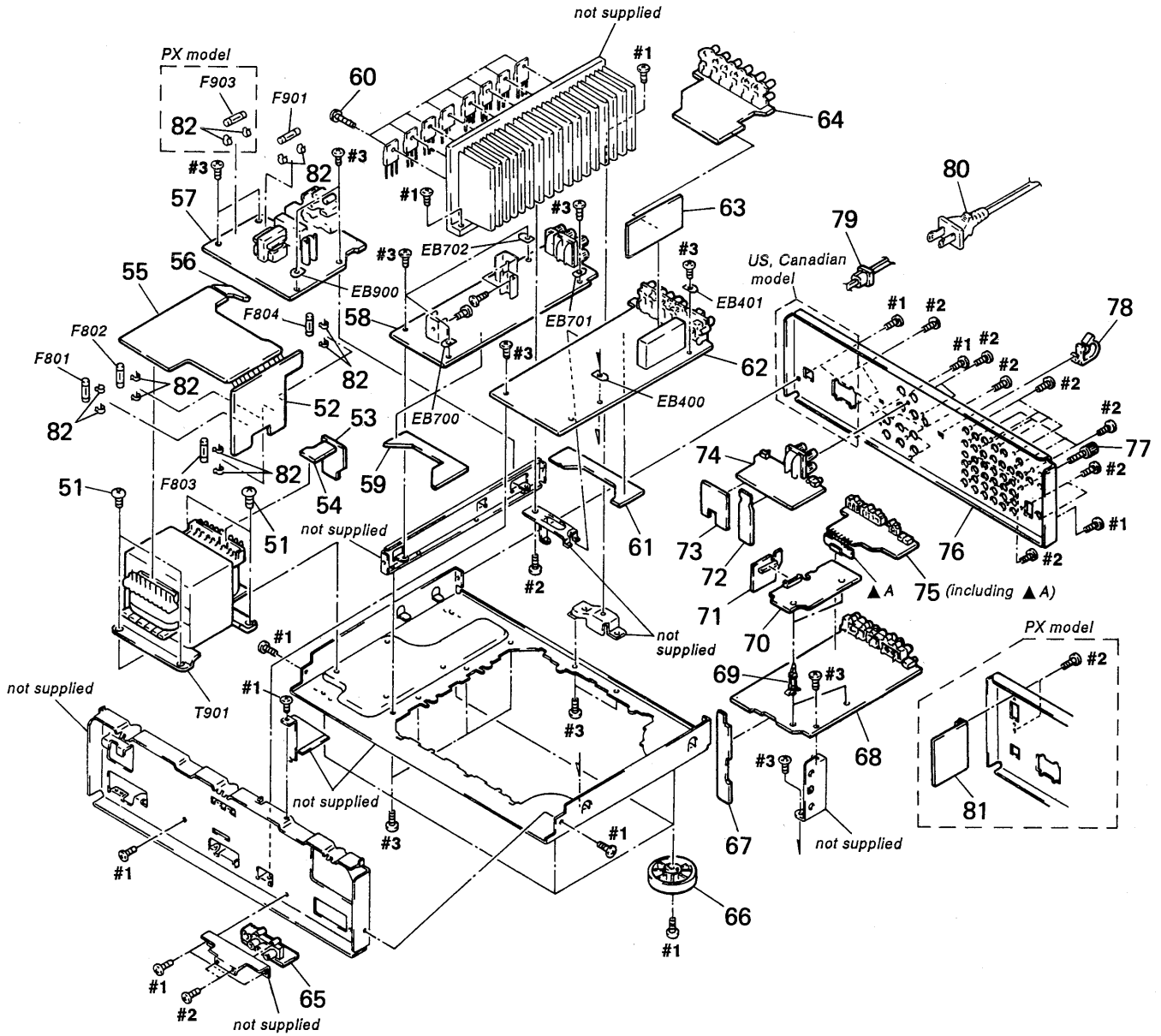
5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-974-137-01	PLATE (BO), INDICATION		* 13	A-4377-893-A	DISPLAY BOARD, COMPLETE (US, Canadian)	
2	X-4946-253-1	KNOB (R48) ASSY		* 13	A-4377-943-A	DISPLAY BOARD, COMPLETE (PX)	
3	3-350-426-01	SPRING, RING		* 14	1-656-633-11	VOLUME BOARD	
4	4-974-133-01	RING (VOL), ORNAMENTAL		* 15	1-656-644-11	CN5 BOARD	
5	4-974-135-01	BUTTON (F)		16	1-773-723-11	WIRE (FLAT TYPE) (21 CORE)	
6	4-974-134-01	BUTTON (S)		17	1-773-603-11	WIRE (FLAT TYPE) (15 CORE)	
7	4-974-134-21	BUTTON (S)		* 18	1-656-634-11	HP BOARD	
8	4-974-134-11	BUTTON (S)		19	1-773-709-11	WIRE (FLAT TYPE) (21 CORE)	
9	4-974-132-01	INDICATOR (F)		20	4-931-031-11	CASE	
10	4-974-131-01	COVER (LED)		21	3-704-366-01	SCREW (CASE) (M3×8)	
11	X-4946-033-1	PANEL ASSY, FRONT		22	4-974-125-01	REFLECTOR (LED)	
* 12	1-656-636-11	KEY BOARD		FL101	1-517-420-11	INDICATOR TUBE, FLUORESCENT	

5-2. CHASSIS SECTION

▲ A : CN3 board



Ref.No.	Part No.	Description	Remark
51	4-381-962-11	SCREW +BVTT 4x8 (S)	
* 52	1-656-643-11	FUSE BOARD	
* 53	1-656-637-11	PT1 BOARD (US, Canadian)	
* 54	1-656-638-11	PT2 BOARD (US, Canadian)	
* 55	1-656-641-11	PT3 BOARD	
* 56	1-656-642-11	PT4 BOARD	
* 57	A-4377-906-A	PS BOARD, COMPLETE (US, Canadian)	
* 57	A-4377-945-A	PS BOARD, COMPLETE (PX)	
* 58	A-4377-902-A	AMP BOARD, COMPLETE	
* 59	1-656-160-11	CONT AS-1 BOARD	
60	3-905-609-01	SCREW (TRANSISTOR)	
* 61	1-656-161-11	CONT AS-2 BOARD	
* 62	A-4377-903-A	SURROUND BOARD, COMPLETE	
* 63	1-656-635-11	PHONO BOARD	
* 64	1-656-630-11	AUDIO 2F BOARD	
* 65	1-656-632-11	VIDEO 3 BOARD	
66	X-4942-706-1	FOOT (58175) ASSY	
* 67	1-656-647-11	CN8 BOARD	
* 68	A-4377-913-A	OSD BOARD, COMPLETE	
* 69	3-703-353-07	SUPPORT, PC BOARD	
* 70	1-657-532-11	MEMORY BOARD	
* 71	1-657-533-11	MEMORY JOINT BOARD	
* 72	1-656-645-11	CN6 BOARD	
* 73	1-656-646-11	CN7 BOARD	
* 74	1-656-649-11	SP TM BOARD	
* 75	A-4377-901-A	S. VIDEO BOARD, COMPLETE	
* 76	4-974-130-01	PANEL, BACK (US)	
* 76	4-974-130-11	PANEL, BACK (Canadian)	
* 76	4-974-130-31	PANEL, BACK (PX)	
77	4-947-010-01	SCREW, FEEDER FIXED	

Ref.No.	Part No.	Description	Remark
* 78	4-949-235-01	HOOK	
* 79	3-703-244-00	BUSHING (2104), CORD	
△80	1-590-074-11	CORD, POWER (PX)	
△80	1-769-743-11	CORD, POWER (US, Canadian)	
* 81	1-656-650-11	VS BOARD (PX)	
82	1-533-217-31	HOLDER, FUSE	
EB400	1-537-770-21	TERMINAL BOARD, GROUND	
EB401	1-537-770-21	TERMINAL BOARD, GROUND	
EB700	1-537-770-21	TERMINAL BOARD, GROUND	
EB701	1-537-770-21	TERMINAL BOARD, GROUND	
EB702	1-537-770-21	TERMINAL BOARD, GROUND	
EB900	1-537-770-21	TERMINAL BOARD, GROUND	
△F801	1-532-506-51	FUSE (T6. 3AL 125V) (PX)	
△F801	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA. 5) (8A 125V) (US, Canadian)	
△F802	1-532-506-51	FUSE (T6. 3AL 125V) (PX)	
△F802	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA. 5) (8A 125V) (US, Canadian)	
△F803	1-532-350-00	FUSE (T4AL 125V) (PX)	
△F803	1-576-108-11	FUSE (4A 125V) (US, Canadian)	
△F804	1-532-350-00	FUSE (T4AL 125V) (PX)	
△F804	1-576-108-11	FUSE (4A 125V) (US, Canadian)	
△F901	1-532-350-00	FUSE (T4AL 125V) (PX)	
△F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA. 5) (8A 125V) (US, Canadian)	
△F903	1-532-350-00	FUSE (T4AL 125V) (PX)	
△T901	1-427-726-11	TRANSFORMER, POWER (US)	
△T901	1-427-727-11	TRANSFORMER, POWER (Canadian)	
△T901	1-427-976-11	TRANSFORMER, POWER (PX)	

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

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

SECTION 6 ELECTRICAL PARTS LIST

AMP

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example :
uA..... : μ A..... , uPA..... : μ PA.....
uPB..... : μ PB..... , uPC..... : μ PC.....
uPD..... : μ PD.....
- CAPACITORS
uF : μ F
- COILS
uH : μ H

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4377-902-A	AMP BOARD, COMPLETE *****		C753	1-107-597-11	CERAMIC 22PF	10% 500V
		< CAPACITOR >		C754	1-136-157-00	FILM 0.022uF	5% 50V
C601	1-104-664-11	ELECT 47uF	20% 16V	C755	1-164-159-11	CERAMIC 0.1uF	50V
C602	1-107-597-11	CERAMIC 22PF	10% 500V	C756	1-164-159-11	CERAMIC 0.1uF	50V
C603	1-107-597-11	CERAMIC 22PF	10% 500V	C801	1-124-907-11	ELECT 10uF	20% 50V
C604	1-136-157-00	FILM 0.022uF	5% 50V	C802	1-124-907-11	ELECT 10uF	20% 50V
C605	1-164-159-11	CERAMIC 0.1uF	50V	C803	1-109-932-11	ELECT 10000uF	20% 71V
C606	1-164-159-11	CERAMIC 0.1uF	50V	C804	1-109-932-11	ELECT 10000uF	20% 71V
C610	1-164-159-11	CERAMIC 0.1uF	50V	C805	1-137-420-11	FILM 0.047uF	10% 100V
C611	1-164-096-11	CERAMIC 0.01uF	50V	C806	1-137-420-11	FILM 0.047uF	10% 100V
C621	1-124-907-11	ELECT 10uF	20% 50V	C807-809			
C622	1-162-282-31	CERAMIC 100PF	10% 50V		1-104-664-11	ELECT 47uF	20% 16V
C623	1-162-282-31	CERAMIC 100PF	10% 50V	C810	1-126-967-11	ELECT 47uF	20% 35V
C624	1-104-665-11	ELECT 100uF	20% 16V	C811	1-126-974-11	ELECT 3300uF	20% 50V
C626	1-136-157-00	FILM 0.022uF	5% 50V	C812	1-126-974-11	ELECT 3300uF	20% 50V
C656	1-124-907-11	ELECT 10uF	20% 50V	C813	1-136-495-11	FILM 0.068uF	5% 50V
C661	1-164-096-11	CERAMIC 0.01uF	50V	C814	1-136-495-11	FILM 0.068uF	5% 50V
C671	1-124-907-11	ELECT 10uF	20% 50V	C815	1-126-967-11	ELECT 47uF	20% 35V
C672	1-162-282-31	CERAMIC 100PF	10% 50V	C816	1-126-967-11	ELECT 47uF	20% 35V
C673	1-162-282-31	CERAMIC 100PF	10% 50V			< CONNECTOR >	
C674	1-104-665-11	ELECT 100uF	20% 16V	CNJ601	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P	
C676	1-136-157-00	FILM 0.022uF	5% 50V	CNJ701	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P	
C701	1-104-664-11	ELECT 47uF	20% 16V	CNJ803	1-770-382-11	CONNECTOR, BOARD TO BOARD 12P	
C702	1-107-597-11	CERAMIC 22PF	10% 500V	CNP702	1-770-481-11	PIN, CONNECTOR 4P	
C703	1-107-597-11	CERAMIC 22PF	10% 500V	* CNP801	1-564-792-11	PIN, CONNECTOR (WITH LOCK) 5P	
C704	1-136-157-00	FILM 0.022uF	5% 50V	* CNP802	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P	
C705	1-164-159-11	CERAMIC 0.1uF	50V	CNS702	1-764-926-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P	
C706	1-164-159-11	CERAMIC 0.1uF	50V			< DIODE >	
C711	1-126-941-11	ELECT 470uF	20% 6.3V	D601	8-719-987-63	DIODE 1N4148M	
C712	1-124-463-00	ELECT 0.1uF	20% 50V	D602	8-719-010-06	DIODE UZ-2.2BS	
C751	1-104-664-11	ELECT 47uF	20% 16V	D603	8-719-010-06	DIODE UZ-2.2BS	
C752	1-107-597-11	CERAMIC 22PF	10% 500V	D604	8-719-987-63	DIODE 1N4148M	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D605	8-719-815-85	DIODE 1S1585		Q606	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D606	8-719-815-85	DIODE 1S1585		Q607	8-729-119-79	TRANSISTOR 2SC2785-FEK	
D607	8-719-987-63	DIODE 1N4148M		Q608	8-729-119-79	TRANSISTOR 2SC2785-FEK	
D608	8-719-987-63	DIODE 1N4148M		Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D631	8-719-987-63	DIODE 1N4148M		Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
D632	8-719-987-63	DIODE 1N4148M		Q703	8-749-010-25	IC MN2488-OPY-M	
D701	8-719-987-63	DIODE 1N4148M		Q704	8-749-010-26	IC MN1620-OPY-M	
D702	8-719-010-06	DIODE UZ-2. 2BS		Q705	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D703	8-719-010-06	DIODE UZ-2. 2BS		Q706	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D704	8-719-987-63	DIODE 1N4148M		Q711	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D705	8-719-815-85	DIODE 1S1585		Q712	8-729-119-79	TRANSISTOR 2SC2785-FEK	
D706	8-719-815-85	DIODE 1S1585		Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D710	8-719-815-85	DIODE 1S1585		Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D711	8-719-815-85	DIODE 1S1585		Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	
D713	8-719-987-63	DIODE 1N4148M		Q753	8-749-010-25	IC MN2488-OPY-M	
D714	8-719-987-63	DIODE 1N4148M		Q754	8-749-010-26	IC MN1620-OPY-M	
D716	8-719-987-63	DIODE 1N4148M		Q755	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D751	8-719-987-63	DIODE 1N4148M		Q756	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D752	8-719-010-06	DIODE UZ-2. 2BS		Q801	8-729-140-96	TRANSISTOR 2SD774-34	
D753	8-719-010-06	DIODE UZ-2. 2BS		Q802	8-729-119-79	TRANSISTOR 2SC2785-FEK	
D754	8-719-987-63	DIODE 1N4148M		< RESISTOR >			
D755	8-719-815-85	DIODE 1S1585		R600	1-249-437-11	CARBON 47K 5% 1/4W	
D756	8-719-815-85	DIODE 1S1585		△R601	1-249-393-11	CARBON 10 5% 1/4W	F
D801	8-719-002-76	DIODE UZL-36H		R603	1-249-421-11	CARBON 2. 2K 5% 1/4W	
D802	8-719-302-38	DIODE RBV-602-01		R604	1-249-414-11	CARBON 560 5% 1/4W	
D803	8-719-025-03	DIODE RBA-402-SL		△R605	1-249-393-11	CARBON 10 5% 1/4W	F
< GROUND TERMINAL BOARD >				△R606	1-233-352-21	ENCAPSULATED COMPONENT	F
EB700-702	1-537-770-21	TERMINAL BOARD, GROUND		R607	1-249-425-11	CARBON 4. 7K 5% 1/4W	
< IC >				R608	1-249-421-11	CARBON 2. 2K 5% 1/4W	
IC601	8-759-069-56	IC LM3875-Q		R609	1-249-431-11	CARBON 15K 5% 1/4W	
IC651	8-759-069-56	IC LM3875-Q		R610	1-249-425-11	CARBON 4. 7K 5% 1/4W	
IC801	8-759-263-43	IC TA78M12S		R611	1-249-421-11	CARBON 2. 2K 5% 1/4W	
IC802	8-759-263-43	IC TA78M12S		R612	1-249-431-11	CARBON 15K 5% 1/4W	
IC803	8-759-604-45	IC M5F79M12		△R613	1-249-389-11	CARBON 4. 7 5% 1/4W	F
< COIL >				R614	1-249-439-11	CARBON 68K 5% 1/4W	
L601	1-420-872-00	COIL, AIR-CORE		△R615	1-249-393-11	CARBON 10 5% 1/4W	F
L602	1-420-872-00	COIL, AIR-CORE		R617	1-249-435-11	CARBON 33K 5% 1/4W	
L652	1-420-872-00	COIL, AIR-CORE		△R618	1-249-393-11	CARBON 10 5% 1/4W	F
< TRANSISTOR >				R621	1-249-438-11	CARBON 56K 5% 1/4W	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE		R622	1-249-417-11	CARBON 1K 5% 1/4W	
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK		R623	1-249-411-11	CARBON 330 5% 1/4W	
Q603	8-749-010-25	IC MN2488-OPY-M		R624	1-249-438-11	CARBON 56K 5% 1/4W	
Q604	8-749-010-26	IC MN1620-OPY-M		△R625	1-249-389-11	CARBON 4. 7 5% 1/4W	F
Q605	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R626	1-249-438-11	CARBON 56K 5% 1/4W	
				△R627	1-249-393-11	CARBON 10 5% 1/4W	F
				R631	1-249-429-11	CARBON 10K 5% 1/4W	
				R632	1-249-425-11	CARBON 4. 7K 5% 1/4W	
				△R633	1-249-414-11	CARBON 560 5% 1/4W	F

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

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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
△R634	1-249-414-11	CARBON	560	5%	1/4W F	△R804	1-215-886-11	METAL OXIDE	100	5%	2W F
R635	1-249-429-11	CARBON	10K	5%	1/4W	△R806	1-215-886-11	METAL OXIDE	100	5%	2W F
R636	1-249-425-11	CARBON	4.7K	5%	1/4W	R807	1-249-425-11	CARBON	4.7K	5%	1/4W
△R668	1-249-393-11	CARBON	10	5%	1/4W F	R808	1-249-429-11	CARBON	10K	5%	1/4W
R671	1-249-438-11	CARBON	56K	5%	1/4W	△R809-811	1-249-405-11	CARBON	100	5%	1/4W F
R672	1-249-417-11	CARBON	1K	5%	1/4W						
R673	1-249-411-11	CARBON	330	5%	1/4W	△R812	1-249-414-11	CARBON	560	5%	1/4W F
R674	1-249-438-11	CARBON	56K	5%	1/4W	△R813-817	1-215-886-11	METAL OXIDE	100	5%	2W F
△R675	1-249-389-11	CARBON	4.7	5%	1/4W F	△R818	1-215-888-00	METAL OXIDE	220	5%	2W F
R676	1-249-437-11	CARBON	47K	5%	1/4W	△R819	1-215-888-00	METAL OXIDE	220	5%	2W F
△R677	1-249-393-11	CARBON	10	5%	1/4W F			< RELAY >			
R700	1-249-437-11	CARBON	47K	5%	1/4W						
△R701	1-249-393-11	CARBON	10	5%	1/4W F	RY601	1-515-765-11	RELAY			
R703	1-249-421-11	CARBON	2.2K	5%	1/4W	RY602	1-515-920-11	RELAY (24V)			
R704	1-249-414-11	CARBON	560	5%	1/4W			< TERMINAL >			
△R705	1-249-393-11	CARBON	10	5%	1/4W F						
△R706	1-233-352-21	ENCAPSULATED COMPONENT			F	* TM601	1-537-882-11	TERMINAL BOARD 6P (CENTER/REAR SPEAKER)			
R707	1-249-425-11	CARBON	4.7K	5%	1/4W	*****					
R708	1-249-421-11	CARBON	2.2K	5%	1/4W						
R709	1-249-431-11	CARBON	15K	5%	1/4W	* 1-656-630-11	AUDIO 2F BOARD				
R710	1-249-425-11	CARBON	4.7K	5%	1/4W	*****					
R711	1-249-421-11	CARBON	2.2K	5%	1/4W			< CAPACITOR >			
R712	1-249-431-11	CARBON	15K	5%	1/4W	C395	1-162-282-31	CERAMIC	100PF	10%	50V
R714	1-249-437-11	CARBON	47K	5%	1/4W	C396	1-162-294-31	CERAMIC	0.001uF	10%	50V
△R715	1-249-393-11	CARBON	10	5%	1/4W F			< CONNECTOR >			
R719	1-215-868-00	METAL OXIDE	680	5%	1W	CNJ302	1-695-093-11	SOCKET, CONNECTOR 9P			
R721	1-249-429-11	CARBON	10K	5%	1/4W			< IC >			
R722	1-249-435-11	CARBON	33K	5%	1/4W	IC304	8-759-805-14	IC LC7822			
R723	1-249-427-11	CARBON	6.8K	5%	1/4W			< JACK >			
R727	1-249-417-11	CARBON	1K	5%	1/4W	J303	1-691-887-11	JACK, PIN 6P (TV/LD AUDIO IN, VIDEO 2 AUDIO OUT)			
R732	1-249-429-11	CARBON	10K	5%	1/4W	J304	1-580-825-11	JACK, PIN 6P (VIDEO 1 AUDIO IN/OUT, VIDEO 2 AUDIO IN)			
R750	1-249-437-11	CARBON	47K	5%	1/4W			< RESISTOR >			
△R751	1-249-393-11	CARBON	10	5%	1/4W F	R322-327	1-249-417-11	CARBON	1K	5%	1/4W
R753	1-249-421-11	CARBON	2.2K	5%	1/4W	R372-377	1-249-417-11	CARBON	1K	5%	1/4W
R754	1-249-414-11	CARBON	560	5%	1/4W	R395	1-249-417-11	CARBON	1K	5%	1/4W
△R755	1-249-393-11	CARBON	10	5%	1/4W F	R396	1-249-425-11	CARBON	4.7K	5%	1/4W
△R756	1-233-352-21	ENCAPSULATED COMPONENT			F	*****					
R757	1-249-425-11	CARBON	4.7K	5%	1/4W						
R758	1-249-421-11	CARBON	2.2K	5%	1/4W						
R759	1-249-431-11	CARBON	15K	5%	1/4W						
R760	1-249-425-11	CARBON	4.7K	5%	1/4W						
R761	1-249-421-11	CARBON	2.2K	5%	1/4W						
R762	1-249-431-11	CARBON	15K	5%	1/4W						
R764	1-249-438-11	CARBON	56K	5%	1/4W						
△R765	1-249-393-11	CARBON	10	5%	1/4W F						
R769	1-215-868-00	METAL OXIDE	680	5%	1W						
R801	1-249-423-11	CARBON	3.3K	5%	1/4W						
△R802	1-249-401-11	CARBON	47	5%	1/4W F						
△R803	1-215-886-11	METAL OXIDE	100	5%	2W F						

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CN5	CN6	CN7	CN8	CONT AS-1	CONT AS-2	DISPLAY
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Ref. No.	Part No.	Description	Remark
*	1-656-644-11	CN5 BOARD *****	
		< CONNECTOR >	
	CNJ404 1-695-095-11	SOCKET, CONNECTOR 13P	
	CNP405 1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P	

*	1-656-645-11	CN6 BOARD *****	
		< CONNECTOR >	
	CNJ702 1-770-569-11	SOCKET 4P	
	CNP703 1-770-481-11	PIN, CONNECTOR 4P	

*	1-656-646-11	CN7 BOARD *****	
		< CONNECTOR >	
	CNJ905 1-750-179-11	SOCKET, CONNECTOR 5P	
	CNP704 1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P	
	CNP803 1-770-407-11	CONNECTOR, BOARD TO BOARD 12P	

*	1-656-647-11	CN8 BOARD *****	
		< CONNECTOR >	
	CNJ401 1-750-179-11	SOCKET, CONNECTOR 5P	
	CNP202 1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P	

*	1-656-160-11	CONT AS-1 BOARD *****	
		< CONNECTOR >	
	CNP501 1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	
	CNP701 1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	

*	1-656-161-11	CONT AS-2 BOARD *****	
		< CONNECTOR >	
	CNP502 1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	
	CNP601 1-770-553-11	CONNECTOR, BOARD TO BOARD 11P	

Ref. No.	Part No.	Description	Remark
*	A-4377-893-A	DISPLAY BOARD, COMPLETE (US, Canadian)	
*	A-4377-943-A	DISPLAY BOARD, COMPLETE (PX)	

		< CAPACITOR >	
C101	1-164-159-11	CERAMIC	0.1uF 50V
C102	1-124-916-11	ELECT	22uF 20% 63V
C103	1-164-159-11	CERAMIC	0.1uF 50V
C104	1-164-159-11	CERAMIC	0.1uF 50V
C105	1-124-589-11	ELECT	47uF 20% 16V
C106	1-162-282-31	CERAMIC	100PF 10% 50V
C107	1-124-589-11	ELECT	47uF 20% 16V
C108	1-124-589-11	ELECT	47uF 20% 16V
C109	1-162-282-31	CERAMIC	100PF 10% 50V
C110	1-124-916-11	ELECT	22uF 20% 63V
C111	1-124-589-11	ELECT	47uF 20% 16V
C112-114			
	1-164-159-11	CERAMIC	0.1uF 50V
C115	1-162-282-31	CERAMIC	100PF 10% 50V
C116	1-104-905-11	CAP, DOUBLE LAYERS	0.22F
C117	1-164-159-11	CERAMIC	0.1uF 50V
C118	1-164-159-11	CERAMIC	0.1uF 50V
C119	1-162-306-11	CERAMIC	0.01uF 30% 16V
C120	1-164-159-11	CERAMIC	0.1uF 50V
C122	1-164-159-11	CERAMIC	0.1uF 50V
C123	1-164-159-11	CERAMIC	0.1uF 50V
		< CONNECTOR >	
CNJ102	1-764-956-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P	
CNJ103	1-770-396-11	HOUSING, CONNECTOR (PC BOARD) 3P	
CNJ104	1-766-034-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P	
CNJ105	1-770-718-11	SOCKET, CONNECTOR 22P	
* CNJ106	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
CNJ108	1-770-398-11	HOUSING, CONNECTOR (PC BOARD) 5P	
		< DIODE >	
D101	8-719-301-49	LED SEL2810A	(SPERAKERS)
D102	8-719-301-49	LED SEL2810A	(TAPE MONITOR)
D103	8-719-301-49	LED SEL2810A	(VIDEO 1)
D104	8-719-301-49	LED SEL2810A	(VIDEO 2)
D105	8-719-301-49	LED SEL2810A	(VIDEO 3)
D106	8-719-301-49	LED SEL2810A	(LD)
D107	8-719-301-49	LED SEL2810A	(TV)
D108	8-719-301-49	LED SEL2810A	(DAT/MD)
D109	8-719-301-49	LED SEL2810A	(CD)
D110	8-719-301-49	LED SEL2810A	(TUNER)
D111	8-719-301-49	LED SEL2810A	(PHONO)
D112	8-719-313-43	LED SEL6210S-TH10	(LEARNING)
D113	8-719-987-63	DIODE 1N4148M	

DISPLAY

Ref. No.	Part No.	Description	Remark
D114	8-719-118-33	DIODE PH302D	
D115-118			
	8-719-987-63	DIODE 1N4148M	
D119	8-719-053-79	LED SE1003-C-TP	
D120	8-719-053-79	LED SE1003-C-TP	
D121	8-719-024-99	DIODE 11ES2-NTA2B	
D122	8-719-987-63	DIODE 1N4148M	
D123-125			
	8-719-053-79	LED SE1003-C-TP	
D128-130			
	8-719-053-79	LED SE1003-C-TP	
D132	8-719-987-63	DIODE 1N4148M (PX)	
D133	8-719-987-63	DIODE 1N4148M	
D138	8-719-053-79	LED SE1003-C-TP	
D139	8-719-053-79	LED SE1003-C-TP	
< INDICATOR TUBE >			
FL101	1-517-420-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC101	8-759-075-35	IC TD62C950RF	
IC102	8-759-075-35	IC TD62C950RF	
IC105	8-759-240-69	IC TC4069UBP	
IC106	8-759-962-08	IC BA6208	
IC107	8-759-342-43	IC MB90673PF-G-113-BND	
IC108	8-759-060-73	IC NJU3713D	
< COIL >			
L101	1-410-509-11	INDUCTOR 10uH	
L102	1-410-509-11	INDUCTOR 10uH	
< TRANSISTOR >			
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q102	8-729-900-36	TRANSISTOR DTC124ES	
Q103	8-729-900-63	TRANSISTOR DTA124ES	
Q110	8-729-140-96	TRANSISTOR 2SD774-34	
Q111	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q112	8-729-900-63	TRANSISTOR DTA124ES	
< RESISTOR >			
R101-103			
	1-249-411-11	CARBON 330 5% 1/4W	
R104	1-249-429-11	CARBON 10K 5% 1/4W	
R105	1-249-425-11	CARBON 4.7K 5% 1/4W	
R106	1-249-419-11	CARBON 1.5K 5% 1/4W	
R107	1-249-429-11	CARBON 10K 5% 1/4W	
R108	1-249-437-11	CARBON 47K 5% 1/4W	
R109	1-249-429-11	CARBON 10K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R110	1-249-411-11	CARBON 330 5% 1/4W	
R111	1-215-861-00	METAL OXIDE 47 5% 1W	
R112	1-249-417-11	CARBON 1K 5% 1/4W	
R113-115			
	1-249-429-11	CARBON 10K 5% 1/4W	
R116	1-247-903-00	CARBON 1M 5% 1/4W	
R117	1-249-433-11	CARBON 22K 5% 1/4W	
R118	1-247-895-00	CARBON 470K 5% 1/4W	
R119	1-247-903-00	CARBON 1M 5% 1/4W	
R120	1-249-429-11	CARBON 10K 5% 1/4W	
R121	1-249-435-11	CARBON 33K 5% 1/4W	
R122	1-249-417-11	CARBON 1K 5% 1/4W	
R123-128			
	1-249-425-11	CARBON 4.7K 5% 1/4W	
R129-131			
	1-249-429-11	CARBON 10K 5% 1/4W	
R133	1-249-429-11	CARBON 10K 5% 1/4W	
R134	1-249-441-11	CARBON 100K 5% 1/4W	
R138-141			
	1-249-429-11	CARBON 10K 5% 1/4W	
R143	1-249-393-11	CARBON 10 5% 1/4W	
R144	1-249-429-11	CARBON 10K 5% 1/4W	
△R145	1-249-385-11	CARBON 2.2 5% 1/6W F	
△R146	1-249-385-11	CARBON 2.2 5% 1/6W F	
< RELAY >			
RY101	1-515-614-11	RELAY	
< SWITCH >			
S101	1-554-303-21	SWITCH, TACTILE (POWER)	
S102	1-554-303-21	SWITCH, TACTILE (SPEAKERS)	
S103	1-554-303-21	SWITCH, TACTILE (VIDEO 3)	
S104	1-554-303-21	SWITCH, TACTILE (CD)	
S105	1-554-303-21	SWITCH, TACTILE (VIDEO 1)	
S106	1-554-303-21	SWITCH, TACTILE (LD)	
S107	1-554-303-21	SWITCH, TACTILE (PHONO)	
S108	1-554-303-21	SWITCH, TACTILE (TAPE MONITOR)	
S109	1-554-303-21	SWITCH, TACTILE (TV)	
S110	1-554-303-21	SWITCH, TACTILE (TUNER)	
S111	1-554-303-21	SWITCH, TACTILE (VIDEO 2)	
S112	1-554-303-21	SWITCH, TACTILE (DAT/MD)	
< VIBRATOR >			
X101	1-567-819-11	VIBRATOR, CERAMIC (4MHz)	

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FUSE**HP****KEY****MEMORY****MEMORY JOINT****OSD**

Ref. No.	Part No.	Description	Remark
*	1-656-643-11	FUSE BOARD *****	
	1-533-217-31	HOLDER, FUSE < CONNECTOR >	
	CNJ801 1-750-390-11	SOCKET 5P	
*	CNJ802 1-565-480-11	CONNECTOR, BOARD TO BOARD 4P < DIODE >	
	D804 8-719-987-63	DIODE IN4148M	
	D908 8-719-014-66	DIODE UZP-5.6B < FUSE >	
△	F801 1-532-506-51	FUSE (T6.3AL 125V) (PX)	
△	F801 1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (US, Canadian)	
△	F802 1-532-506-51	FUSE (T6.3AL 125V) (PX)	
△	F802 1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (US, Canadian)	
△	F803 1-532-350-00	FUSE (T4AL 125V) (PX)	
△	F803 1-576-108-11	FUSE (4A 125V) (US, Canadian)	
△	F804 1-532-350-00	FUSE (T4AL 125V) (PX)	
△	F804 1-576-108-11	FUSE (4A 125V) (US, Canadian) < RELAY >	
	RY801 1-515-894-11	RELAY (US, PX)	
	RY851 1-515-918-11	RELAY (Canadian)	
	RY852 1-515-918-11	RELAY (Canadian)	

*	1-656-634-11	HP BOARD ***** < CONNECTOR >	
	CNP103 1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P < JACK >	
	J100 1-568-519-41	JACK, LARGE TYPE (PHONES) *****	
*	1-656-636-11	KEY BOARD ***** < CONNECTOR >	
*	CNP106 1-565-295-11	PLUG, CONNECTOR 4P < RESISTOR >	
	R135 1-249-429-11	CARBON 10K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R136	1-249-429-11	CARBON 10K 5% 1/4W	
R137	1-249-417-11	CARBON 1K 5% 1/4W < SWITCH >	
S114	1-554-303-21	SWITCH, TACTILE (PRESET TUNING -)	
S115	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)	
S116	1-554-303-21	SWITCH, TACTILE (SOUND FIELD) *****	
*	1-657-532-11	MEMORY BOARD ***** < CAPACITOR >	
	C288 1-164-159-11	CERAMIC 0.1uF 50V	
	C289 1-164-159-11	CERAMIC 0.1uF 50V	
	C290 1-104-664-11	ELECT 47uF 20% 16V	
	C291 1-164-159-11	CERAMIC 0.1uF 50V	
	C294 1-164-159-11	CERAMIC 0.1uF 50V < CONNECTOR >	
	CNP205 1-764-238-11	CONNECTOR, BOARD TO BOARD 28P < IC >	
	IC216 8-759-916-94	IC SN74HC373AN	
	IC218 8-759-916-94	IC SN74HC373AN	
	IC220 8-759-343-24	IC MX23C2048PC-12STR-G3	
	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 *****	
*	1-657-533-11	MEMORY JOINT BOARD ***** < CONNECTOR >	
	CNJ205 1-764-235-11	CONNECTOR, BOARD TO BOARD 28P	
	CNP204 1-764-238-11	CONNECTOR, BOARD TO BOARD 28P *****	
*	A-4377-913-A	OSD BOARD, COMPLETE ***** < CAPACITOR >	
	C200 1-124-903-11	ELECT 1uF 20% 50V	
	C201 1-164-159-11	CERAMIC 0.1uF 50V	
	C202 1-164-159-11	CERAMIC 0.1uF 50V	
	C203 1-164-031-11	CERAMIC 33PF 5% 50V	
	C204 1-164-159-11	CERAMIC 0.1uF 50V	

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

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

Ref. No.	Part No.	Description	Remark
C206	1-164-035-11	CERAMIC	47PF 5% 50V
C208	1-124-903-11	ELECT	1uF 20% 50V
C211	1-162-290-31	CERAMIC	470PF 10% 50V
C212	1-124-443-00	ELECT	100uF 20% 10V
C213	1-164-159-11	CERAMIC	0. 1uF 50V
C224	1-162-294-31	CERAMIC	0. 001uF 10% 50V
C231	1-164-073-11	CERAMIC	100PF 10% 50V
C232	1-162-306-11	CERAMIC	0. 01uF 30% 16V
C235	1-164-095-11	CERAMIC	0. 01uF 10% 16V
C236	1-164-026-11	CERAMIC	20PF 5% 50V
C237	1-164-085-11	CERAMIC	0. 001uF 10% 50V
C239	1-164-159-11	CERAMIC	0. 1uF 50V
C240	1-164-159-11	CERAMIC	0. 1uF 50V
C241	1-164-026-11	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	1-164-019-11	CERAMIC	10PF 0. 5PF 50V
C246	1-164-159-11	CERAMIC	0. 1uF 50V
C247	1-162-282-31	CERAMIC	100PF 10% 50V
C248	1-124-903-11	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	1-104-664-11	ELECT	47uF 20% 16V
C253	1-124-903-11	ELECT	1uF 20% 50V
C254	1-164-073-11	CERAMIC	100PF 10% 50V
C255	1-136-169-00	FILM	0. 22uF 5% 50V
C256-258	1-124-903-11	ELECT	1uF 20% 50V
C259	1-162-306-11	CERAMIC	0. 01uF 30% 16V
C260	1-162-293-31	CERAMIC	820PF 10% 50V
C262	1-124-903-11	ELECT	1uF 20% 50V
C263	1-164-073-11	CERAMIC	100PF 10% 50V
C264-266	1-124-907-11	ELECT	10uF 20% 50V
C267	1-124-903-11	ELECT	1uF 20% 50V
C268	1-104-664-11	ELECT	47uF 20% 16V
C269	1-164-159-11	CERAMIC	0. 1uF 50V
C270	1-124-903-11	ELECT	1uF 20% 50V
C271	1-124-903-11	ELECT	1uF 20% 50V
C272	1-136-162-00	FILM	0. 056uF 5% 50V
C273	1-164-159-11	CERAMIC	0. 1uF 50V
C274	1-104-664-11	ELECT	47uF 20% 16V
C275	1-104-664-11	ELECT	47uF 20% 16V
C276	1-104-905-11	CAP, DOUBLE LAYERS	0. 22F
C277	1-162-306-11	CERAMIC	0. 01uF 30% 16V
C279	1-124-907-11	ELECT	10uF 20% 50V
C280	1-164-159-11	CERAMIC	0. 1uF 50V
C281	1-162-600-11	CERAMIC	0. 0047uF 30% 16V

Ref. No.	Part No.	Description	Remark
C282	1-164-159-11	CERAMIC	0. 1uF 50V
C283	1-136-157-00	FILM	0. 022uF 5% 50V
C284	1-162-306-11	CERAMIC	0. 01uF 30% 16V
C285	1-124-903-11	ELECT	1uF 20% 50V
C286	1-162-293-31	CERAMIC	820PF 10% 50V
C287	1-104-664-11	ELECT	47uF 20% 16V
C292	1-162-282-31	CERAMIC	100PF 10% 50V
C295	1-164-159-11	CERAMIC	0. 1uF 50V
< CONNECTOR >			
CNJ202	1-750-179-11	SOCKET, CONNECTOR 5P	
CNJ203	1-764-920-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P	
CNJ204	1-764-235-11	CONNECTOR, BOARD TO BOARD 28P	
CNP201	1-695-091-11	PIN, CONNECTOR (PC BOARD) 15P	
< TRIMMER >			
CT201	1-141-227-00	CAP, TRIMMER 20PF	
CT202	1-141-227-00	CAP, TRIMMER 20PF	
< DIODE >			
D201-204	8-719-987-63	DIODE 1N4148M	
D205	8-719-024-99	DIODE 11ES2-NTA2B	
< FRONT END >			
FE201	1-233-348-11	ENCAPSULATED COMPONENT	
< IC >			
IC202	8-759-140-53	IC uPD4053BC	
IC205	8-759-341-80	IC MB90095PF-G-130-BND	
IC206	8-759-916-12	IC SN74HC00AN	
IC207	8-759-708-05	IC NJM78L05A	
IC208	8-759-140-53	IC uPD4053BC	
IC209	8-759-343-23	IC MB90T673PF-G-BND	
IC210	8-759-341-79	IC LA7217	
IC211	8-759-061-95	IC SN761200	
IC212	8-759-917-18	IC SN74HCU04AN	
IC213	8-759-341-79	IC LA7217	
IC214	8-759-093-25	IC MB3512PFQ	
IC215	8-759-361-53	IC S-1810CF-047	
IC217	8-759-604-35	IC MSF78M05L	
IC219	8-759-917-18	IC SN74HCU04AN	
< JACK >			
J201	1-566-740-11	JACK (RC ANT IN)	
J208	1-766-399-11	JACK, PIN 3P (TV VIDEO IN, MONITOR VIDEO OUT 1, 2)	
J209	1-766-399-11	JACK, PIN 3P (LD VIDEO IN, VIDEO 2 IN/OUT)	

OSD**PHONO**

Ref.No.	Part No.	Description	Remark
J210	1-766-400-11	JACK, PIN 2P (VIDEO 1 IN/OUT)	
		< COIL >	
L201	1-410-513-11	INDUCTOR 22uH	
		< TRANSISTOR >	
Q200	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q201	8-729-900-36	TRANSISTOR DTC124ES	
Q202	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q203	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q214-216			
	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q217-219			
	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q221	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R200	1-249-417-11	CARBON 1K 5% 1/4W	
R201	1-247-903-00	CARBON 1M 5% 1/4W	
R202	1-247-903-00	CARBON 1M 5% 1/4W	
R203	1-249-441-11	CARBON 100K 5% 1/4W	
R204	1-249-429-11	CARBON 10K 5% 1/4W	
R207	1-247-807-31	CARBON 100 5% 1/4W	
R208	1-249-419-11	CARBON 1.5K 5% 1/4W	
R209	1-249-429-11	CARBON 10K 5% 1/4W	
R210	1-249-424-11	CARBON 3.9K 5% 1/4W	
R211	1-249-437-11	CARBON 47K 5% 1/4W	
R212	1-249-418-11	CARBON 1.2K 5% 1/4W	
R213	1-249-421-11	CARBON 2.2K 5% 1/4W	
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	
R232	1-249-409-11	CARBON 220 5% 1/4W	
R237	1-249-429-11	CARBON 10K 5% 1/4W	
R242	1-249-433-11	CARBON 22K 5% 1/4W	
R246	1-249-423-11	CARBON 3.3K 5% 1/4W	
R250	1-249-417-11	CARBON 1K 5% 1/4W	
R252	1-249-414-11	CARBON 560 5% 1/4W	
R253	1-249-417-11	CARBON 1K 5% 1/4W	
R258	1-249-414-11	CARBON 560 5% 1/4W	
R259	1-249-417-11	CARBON 1K 5% 1/4W	
R260	1-249-425-11	CARBON 4.7K 5% 1/4W	
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	
R264	1-247-903-00	CARBON 1M 5% 1/4W	
R265	1-249-414-11	CARBON 560 5% 1/4W	
R266	1-249-403-11	CARBON 68 5% 1/4W	

Ref.No.	Part No.	Description	Remark
R267	1-249-424-11	CARBON 3.9K 5% 1/4W	
R268	1-249-403-11	CARBON 68 5% 1/4W	
R269	1-249-403-11	CARBON 68 5% 1/4W	
R270-272			
	1-249-426-11	CARBON 5.6K 5% 1/4W	
R273-275			
	1-249-403-11	CARBON 68 5% 1/4W	
R276-278			
	1-249-419-11	CARBON 1.5K 5% 1/4W	
R279-283			
	1-249-403-11	CARBON 68 5% 1/4W	
R284	1-249-417-11	CARBON 1K 5% 1/4W	
R285	1-249-403-11	CARBON 68 5% 1/4W	
R286	1-247-891-00	CARBON 330K 5% 1/4W	
R288-290			
	1-249-430-11	CARBON 12K 5% 1/4W	
R295	1-249-425-11	CARBON 4.7K 5% 1/4W	
R296	1-249-423-11	CARBON 3.3K 5% 1/4W	
△R2001	1-215-857-11	METAL OXIDE 10 5% 1W F	
R2002	1-249-417-11	CARBON 1K 5% 1/4W	
R2003	1-247-883-00	CARBON 150K 5% 1/4W	
R2004	1-249-424-11	CARBON 3.9K 5% 1/4W	
R2005	1-249-414-11	CARBON 560 5% 1/4W	
R2006	1-247-807-31	CARBON 100 5% 1/4W	
R2007	1-249-409-11	CARBON 220 5% 1/4W	
R2008	1-249-429-11	CARBON 10K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV201	1-241-766-11	RES, ADJ, CERMET 47K (OSD)	
		< TEST PIN >	
* TP201	1-560-060-00	PIN, CONNECTOR 2P	
		< VIBRATOR >	
X201	1-567-819-11	VIBRATOR, CERAMIC (4MHz)	
X203	1-527-722-00	OSCILLATOR, CRYSTAL (14.3MHz)	
X204	1-579-583-11	VIBRATOR, CERAMIC (503kHz)	
X205	1-567-819-11	VIBRATOR, CERAMIC (4MHz)	
X206	1-579-583-11	VIBRATOR, CERAMIC (503kHz)	

* 1-656-635-11	PHONO BOARD		

		< CAPACITOR >	
C303	1-162-282-31	CERAMIC 100PF 10% 50V	
C304	1-104-664-11	ELECT 47uF 20% 16V	
C305	1-130-480-00	MYLAR 0.0056uF 5% 50V	

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

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

Ref. No.	Part No.	Description	Remark
C306	1-130-473-00	MYLAR	0.0015uF 5% 50V
C307	1-124-903-11	ELECT	1uF 20% 50V
C308	1-164-159-11	CERAMIC	0.1uF 50V
C353	1-162-282-31	CERAMIC	100PF 10% 50V
C354	1-104-664-11	ELECT	47uF 20% 16V
< CONNECTOR >			
CN303	1-695-095-11	SOCKET, CONNECTOR 13P	
CN304	1-695-095-11	SOCKET, CONNECTOR 13P	
CNP302	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P	
< IC >			
IC301	8-759-636-74	IC M5218AP-22	
< RESISTOR >			
R303	1-249-441-11	CARBON	100K 5% 1/4W
R304	1-249-416-11	CARBON	820 5% 1/4W
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
R353	1-249-441-11	CARBON	100K 5% 1/4W
R354	1-249-416-11	CARBON	820 5% 1/4W
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

*	A-4377-906-A	PS BOARD, COMPLETE (US, Canadian)	
*	A-4377-945-A	PS BOARD, COMPLETE (PX)	

	1-533-217-31	HOLDER, FUSE	
< BASE POST >			
* BP901	1-535-139-00	BASE POST 19MM (10MM PITCH) 2P	
< CAPACITOR >			
C901	1-161-494-00	CERAMIC	0.022uF 25V
C902	1-161-494-00	CERAMIC	0.022uF 25V
C903	1-124-556-11	ELECT	2200uF 20% 16V
C904	1-124-903-11	ELECT	1uF 20% 50V
C905	1-124-902-00	ELECT	0.47uF 20% 50V
C906	1-124-464-11	ELECT	0.22uF 20% 50V

Ref. No.	Part No.	Description	Remark
C913	1-164-159-11	CERAMIC	0.1uF 50V
< CONNECTOR >			
△CNJ901	1-540-060-11	OUTLET, AC (POLAR) (AC OUTLET)	
* CNP902	1-564-751-11	PIN, CONNECTOR (WITH LOCK) 2P	(US, Canadian)
CNP902	1-564-321-00	PIN, CONNECTOR 2P (PX)	
CNP903	1-564-321-00	PIN, CONNECTOR 2P	
CNP905	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P	
* CNP906	1-564-687-11	PIN, CONNECTOR 3P (PX)	
CNP908	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P (PX)	
< DIODE >			
D901-904	8-719-024-99	DIODE 11ES2-NTA2B	
D905-907	8-719-987-63	DIODE 1N4148M	
< TERMINAL BOARD >			
EB900	1-537-770-21	TERMINAL BOARD, GROUND	
< FUSE >			
△F901	1-532-350-00	FUSE (T4AL 125V) (PX)	
△F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA. 5)	(8A 125V) (US, Canadian)
△F903	1-532-350-00	FUSE (T4AL 125V) (PX)	
< 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 (US, Canadian)
R902	1-249-429-11	CARBON	10K 5% 1/4W
R903	1-249-425-11	CARBON	4.7K 5% 1/4W
R904	1-249-417-11	CARBON	1K 5% 1/4W
R905	1-249-429-11	CARBON	10K 5% 1/4W
R906	1-249-421-11	CARBON	2.2K 5% 1/4W
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
< RELAY >			
RY901	1-515-999-11	RELAY, POWER	

<p>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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PS**PT1****PT2****PT3****PT4****S.VIDEO (including CN3)**

Ref.No.	Part No.	Description	Remark
		< TRANSFORMER >	
△T902	1-450-361-11	TRANSFORMER, POWER (US, Canadian)	
△T902	1-429-236-11	TRANSFORMER, POWER (PX)	

*	1-656-637-11	PT1 BOARD (US, Canadian)	

		< CONNECTOR >	
CNJ902	1-770-568-11	SOCKET 3P (US, Canadian)	

*	1-656-638-11	PT2 BOARD (US, Canadian)	

*	1-656-641-11	PT3 BOARD	

*	1-656-642-11	PT4 BOARD	

*	A-4377-901-A	S. VIDEO BOARD, COMPLETE	

		(including CN3 BOARD)	
		< CAPACITOR >	
C205	1-136-165-00	FILM	0. 1uF 5% 50V
C207	1-164-095-11	CERAMIC	0. 01uF 10% 16V
C209	1-164-095-11	CERAMIC	0. 01uF 10% 16V
C210	1-124-903-11	ELECT	1uF 20% 50V
C214	1-136-165-00	FILM	0. 1uF 5% 50V
C215	1-164-159-11	CERAMIC	0. 1uF 50V
C216	1-164-159-11	CERAMIC	0. 1uF 50V
C217	1-104-664-11	ELECT	47uF 20% 16V
C221	1-164-095-11	CERAMIC	0. 01uF 10% 16V
C222	1-124-903-11	ELECT	1uF 20% 50V
C223	1-136-165-00	FILM	0. 1uF 5% 50V
C225	1-164-095-11	CERAMIC	0. 01uF 10% 16V
C226-228	1-124-907-11	ELECT	10uF 20% 50V
C229	1-124-903-11	ELECT	1uF 20% 50V
C245	1-136-165-00	FILM	0. 1uF 5% 50V
C278	1-124-903-11	ELECT	1uF 20% 50V
C293	1-124-907-11	ELECT	10uF 20% 50V
C296	1-104-666-11	ELECT	220uF 20% 10V

Ref.No.	Part No.	Description	Remark
		< CONNECTOR >	
CNJ201	1-695-096-11	SOCKET, CONNECTOR 15P	
		< DIODE >	
D206	8-719-987-63	DIODE	1N4148M
D210	8-719-987-63	DIODE	1N4148M
		< IC >	
IC203	8-759-061-95	IC	SN761200
IC204	8-759-061-95	IC	SN761200
		< JACK >	
J202	1-507-967-11	JACK (CTRL A)	
J203	1-507-967-11	JACK (IR OUT)	
J204	1-537-943-11	TERMINAL, S (MONITOR OUT)	
J205	1-537-943-11	TERMINAL, S (LD IN)	
J206	1-691-964-11	CONNECTOR (ROUND TYPE) (VIDEO 2 IN/OUT)	
J207	1-691-964-11	CONNECTOR (ROUND TYPE) (VIDEO 1 IN/OUT)	
		< COIL >	
L203	1-410-521-11	INDUCTOR	100uH
		< TRANSISTOR >	
Q204-206	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q207-209	8-729-620-05	TRANSISTOR	2SC2603-EF
Q210-212	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q220	8-729-620-05	TRANSISTOR	2SC2603-EF
		< RESISTOR >	
R205	1-247-807-31	CARBON	100 5% 1/4W
R206	1-247-807-31	CARBON	100 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	1-247-807-31	CARBON	100 5% 1/4W
R221	1-247-807-31	CARBON	100 5% 1/4W
R222	1-249-429-11	CARBON	10K 5% 1/4W
R223	1-247-807-31	CARBON	100 5% 1/4W
R224	1-247-807-31	CARBON	100 5% 1/4W
R225	1-249-403-11	CARBON	68 5% 1/4W
R227	1-249-403-11	CARBON	68 5% 1/4W
R228-230	1-249-411-11	CARBON	330 5% 1/4W
R231	1-249-403-11	CARBON	68 5% 1/4W

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S.VIDEO (including CN3)

SP TM

SURROUND

Ref.No.	Part No.	Description	Remark
R233-235	1-249-426-11	CARBON	5.6K 5% 1/4W
R236	1-249-429-11	CARBON	10K 5% 1/4W
R238-241	1-249-403-11	CARBON	68 5% 1/4W
R243-245	1-249-419-11	CARBON	1.5K 5% 1/4W
R247-249	1-249-403-11	CARBON	68 5% 1/4W
R251	1-249-403-11	CARBON	68 5% 1/4W
R254-256	1-249-430-11	CARBON	12K 5% 1/4W
R257	1-249-403-11	CARBON	68 5% 1/4W
R287	1-247-807-31	CARBON	100 5% 1/4W
R291	1-249-429-11	CARBON	10K 5% 1/4W
R292	1-249-393-11	CARBON	10 5% 1/4W
R293	1-249-429-11	CARBON	10K 5% 1/4W
R294	1-249-425-11	CARBON	4.7K 5% 1/4W

*	1-656-649-11	SP TM BOARD	*****
		< CONNECTOR >	
CNJ703	1-770-569-11	SOCKET 4P	
CNJ704	1-750-179-11	SOCKET, CONNECTOR 5P	
		< DIODE >	
D712	8-719-987-63	DIODE 1N4148M	
		< JACK >	
J701	1-770-377-21	JACK, PIN 1P (MIX OUT)	
		< COIL >	
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q714	8-729-119-79	TRANSISTOR 2SC2785-FEK	
		< RESISTOR >	
△R713	1-249-389-11	CARBON	4.7 5% 1/4W F
R718	1-249-417-11	CARBON	1K 5% 1/4W
R724	1-249-429-11	CARBON	10K 5% 1/4W
R725	1-249-425-11	CARBON	4.7K 5% 1/4W
△R726	1-249-414-11	CARBON	560 5% 1/4W F
R729	1-249-435-11	CARBON	33K 5% 1/4W
R730	1-249-435-11	CARBON	33K 5% 1/4W
△R763	1-249-389-11	CARBON	4.7 5% 1/4W F

Ref.No.	Part No.	Description	Remark
		< RELAY >	
RY701	1-515-765-11	RELAY	
		< SWITCH >	
S701	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)	
		< TERMINAL >	
TM701	1-537-893-11	TERMINAL BOARD (SP) (FRONT SPEAKER)	

*	A-4377-903-A	SURROUND BOARD, COMPLETE	*****
		< CAPACITOR >	
C301	1-126-163-11	ELECT	4.7uF 20% 50V
C302	1-164-073-11	CERAMIC	100PF 10% 50V
C311-313	1-124-907-11	ELECT	10uF 20% 50V
C316	1-164-159-11	CERAMIC	0.1uF 50V
C351	1-126-163-11	ELECT	4.7uF 20% 50V
C352	1-164-073-11	CERAMIC	100PF 10% 50V
C361-363	1-124-907-11	ELECT	10uF 20% 50V
C366	1-164-159-11	CERAMIC	0.1uF 50V
C397	1-164-073-11	CERAMIC	100PF 10% 50V
C398	1-164-085-11	CERAMIC	0.001uF 10% 50V
C400	1-162-282-31	CERAMIC	100PF 10% 50V
C401	1-164-159-11	CERAMIC	0.1uF 50V
C402	1-164-159-11	CERAMIC	0.1uF 50V
C403	1-136-157-00	FILM	0.022uF 5% 50V
C404	1-136-161-00	FILM	0.047uF 5% 50V
C405	1-104-666-11	ELECT	220uF 20% 10V
C406-409	1-124-907-11	ELECT	10uF 20% 50V
C410	1-104-666-11	ELECT	220uF 20% 10V
C411	1-124-907-11	ELECT	10uF 20% 50V
C412	1-124-907-11	ELECT	10uF 20% 50V
C413	1-136-165-00	FILM	0.1uF 5% 50V
C414	1-136-165-00	FILM	0.1uF 5% 50V
C415	1-124-902-00	ELECT	0.47uF 20% 50V
C416	1-126-963-11	ELECT	4.7uF 20% 50V
C417	1-124-902-00	ELECT	0.47uF 20% 50V
C418	1-126-963-11	ELECT	4.7uF 20% 50V
C419	1-124-250-11	ELECT	0.15uF 20% 50V
C420	1-126-962-11	ELECT	3.3uF 20% 50V
C421	1-124-250-11	ELECT	0.15uF 20% 50V
C422	1-162-282-31	CERAMIC	100PF 10% 50V
C423	1-104-664-11	ELECT	47uF 20% 16V

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SURROUND

Ref. No.	Part No.	Description	Remark		
C424	1-136-165-00	FILM	0. 1uF	5%	50V
C425	1-136-165-00	FILM	0. 1uF	5%	50V
C426	1-124-902-00	ELECT	0. 47uF	20%	50V
C427	1-126-963-11	ELECT	4. 7uF	20%	50V
C428	1-126-963-11	ELECT	4. 7uF	20%	50V
C429	1-124-250-11	ELECT	0. 15uF	20%	50V
C430	1-124-902-00	ELECT	0. 47uF	20%	50V
C431	1-126-962-11	ELECT	3. 3uF	20%	50V
C432	1-124-250-11	ELECT	0. 15uF	20%	50V
C433	1-104-666-11	ELECT	220uF	20%	10V
C434	1-104-664-11	ELECT	47uF	20%	16V
C435	1-164-159-11	CERAMIC	0. 1uF		50V
C436	1-124-925-11	ELECT	2. 2uF	20%	100V
C437	1-104-666-11	ELECT	220uF	20%	10V
C438	1-136-165-00	FILM	0. 1uF	5%	50V
C439	1-124-907-11	ELECT	10uF	20%	50V
C440	1-130-469-00	MYLAR	680PF	5%	50V
C441	1-124-907-11	ELECT	10uF	20%	50V
C442	1-124-907-11	ELECT	10uF	20%	50V
C443	1-164-159-11	CERAMIC	0. 1uF		50V
C444	1-124-907-11	ELECT	10uF	20%	50V
C445	1-164-159-11	CERAMIC	0. 1uF		50V
C446	1-164-159-11	CERAMIC	0. 1uF		50V
C447	1-136-173-00	FILM	0. 47uF	5%	50V
C448	1-124-907-11	ELECT	10uF	20%	50V
C449	1-162-215-31	CERAMIC	47PF	5%	50V
C450	1-162-215-31	CERAMIC	47PF	5%	50V
C451	1-164-159-11	CERAMIC	0. 1uF		50V
C452	1-104-666-11	ELECT	220uF	20%	10V
C453	1-136-159-00	FILM	0. 033uF	5%	50V
C454	1-130-473-00	MYLAR	0. 0015uF	5%	50V
C455	1-136-159-00	FILM	0. 033uF	5%	50V
C456	1-124-903-11	ELECT	1uF	20%	50V
C457	1-104-666-11	ELECT	220uF	20%	10V
C465	1-162-199-31	CERAMIC	10PF	5%	50V
C470	1-162-215-31	CERAMIC	47PF	5%	50V
C472	1-126-963-11	ELECT	4. 7uF	20%	50V
C473	1-126-963-11	ELECT	4. 7uF	20%	50V
C491	1-124-907-11	ELECT	10uF	20%	50V
C492	1-124-907-11	ELECT	10uF	20%	50V
C493	1-164-159-11	CERAMIC	0. 1uF		50V
C494	1-124-907-11	ELECT	10uF	20%	50V
C495	1-164-159-11	CERAMIC	0. 1uF		50V
C501	1-124-907-11	ELECT	10uF	20%	50V
C502	1-164-073-11	CERAMIC	100PF	10%	50V
C503	1-102-989-00	CERAMIC	68PF	5%	500V
C504	1-102-989-00	CERAMIC	68PF	5%	500V
C505	1-124-443-00	ELECT	100uF	20%	10V
C506	1-136-159-00	FILM	0. 033uF	5%	50V

Ref. No.	Part No.	Description	Remark		
C507	1-136-171-00	FILM	0. 33uF	5%	50V
C508	1-104-664-11	ELECT	47uF	20%	16V
C509	1-136-495-11	FILM	0. 068uF	5%	50V
C510	1-136-153-00	FILM	0. 01uF	5%	50V
C511	1-130-476-00	MYLAR	0. 0027uF	5%	50V
C512	1-136-157-00	FILM	0. 022uF	5%	50V
C513	1-164-046-11	CERAMIC	10PF	0. 5PF	50V
C514	1-164-046-11	CERAMIC	10PF	0. 5PF	50V
C521	1-124-907-11	ELECT	10uF	20%	50V
C522	1-164-073-11	CERAMIC	100PF	10%	50V
C523	1-104-664-11	ELECT	47uF	20%	16V
C524	1-102-989-00	CERAMIC	68PF	5%	500V
C525	1-102-989-00	CERAMIC	68PF	5%	500V
C526	1-164-040-11	CERAMIC	4PF	0. 25PF	50V
C551	1-124-907-11	ELECT	10uF	20%	50V
C552	1-164-073-11	CERAMIC	100PF	10%	50V
C553	1-102-989-00	CERAMIC	68PF	5%	500V
C554	1-102-989-00	CERAMIC	68PF	5%	500V
C555	1-124-443-00	ELECT	100uF	20%	10V
C556	1-136-159-00	FILM	0. 033uF	5%	50V
C557	1-136-171-00	FILM	0. 33uF	5%	50V
C558	1-104-664-11	ELECT	47uF	20%	16V
C559	1-136-495-11	FILM	0. 068uF	5%	50V
C560	1-136-153-00	FILM	0. 01uF	5%	50V
C561	1-130-476-00	MYLAR	0. 0027uF	5%	50V
C562	1-136-157-00	FILM	0. 022uF	5%	50V
C563	1-164-046-11	CERAMIC	10PF	0. 5PF	50V
C564	1-164-046-11	CERAMIC	10PF	0. 5PF	50V
C593	1-124-916-11	ELECT	22uF	20%	63V
C594	1-124-916-11	ELECT	22uF	20%	63V
C595	1-164-159-11	CERAMIC	0. 1uF		50V
C596	1-104-664-11	ELECT	47uF	20%	16V
C597	1-104-664-11	ELECT	47uF	20%	16V
C598	1-162-282-31	CERAMIC	100PF	10%	50V

< CONNECTOR >

CNJ299	1-770-864-11	CONNECTOR, BOARD TO BOARD 7P
CNJ501	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P
CNJ502	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P
CNP303	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P
CNP304	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P
CNP401	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P
CNP404	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P
CNS402	1-764-962-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P

< DIODE >

D401	8-719-001-30	DIODE UZL-9H3
D402	8-719-987-63	DIODE 1N4148M
D403	8-719-024-99	DIODE 11ES2-N7A2B

SURROUND

Ref. No.	Part No.	Description	Remark
< TERMINAL BOARD >			
EB400	1-537-770-21	TERMINAL BOARD, GROUND	
EB401	1-537-770-21	TERMINAL BOARD, GROUND	
< IC >			
IC302	8-759-634-50	IC M5218AL	
IC303	8-759-634-50	IC M5218AL	
IC305	8-759-805-14	IC LC7822	
IC401	8-759-248-74	IC LA2785	
IC402	8-759-341-23	IC LV1011	
IC403	8-759-634-51	IC M5218AP	
IC406	8-759-634-51	IC M5218AP	
IC501	8-749-920-70	IC STK-3102-3	
IC502	8-759-072-32	IC TC9184P	
IC503	8-749-011-16	IC STK350-230	
< JACK >			
J301	1-691-887-11	JACK, PIN 6P (CD IN, PHONO IN, DAT/MD REC OUT)	
J302	1-580-825-11	JACK, PIN 6P (TAPE IN/REC OUT, DAT/MD IN)	
< COIL >			
L401	1-410-509-11	INDUCTOR 10uH	
L402	1-410-509-11	INDUCTOR 10uH	
< TRANSISTOR >			
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q403	8-729-140-96	TRANSISTOR 2SD774-34	
Q404-407	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q408-411	8-729-900-63	TRANSISTOR DTA124ES	
Q501	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q502	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q551	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q552	8-729-202-67	TRANSISTOR 2SK246-GR3	
< RESISTOR >			
R301	1-249-409-11	CARBON 220 5%	1/4W
R302	1-249-441-11	CARBON 100K 5%	1/4W
R310	1-249-421-11	CARBON 2.2K 5%	1/4W
R311-314	1-249-417-11	CARBON 1K 5%	1/4W
R315	1-249-441-11	CARBON 100K 5%	1/4W

Ref. No.	Part No.	Description	Remark
R316	1-249-437-11	CARBON 47K 5%	1/4W
R317	1-249-437-11	CARBON 47K 5%	1/4W
R318	1-249-441-11	CARBON 100K 5%	1/4W
R319	1-249-417-11	CARBON 1K 5%	1/4W
R320	1-249-425-11	CARBON 4.7K 5%	1/4W
R321	1-249-429-11	CARBON 10K 5%	1/4W
R351	1-249-409-11	CARBON 220 5%	1/4W
R352	1-249-441-11	CARBON 100K 5%	1/4W
R360	1-249-421-11	CARBON 2.2K 5%	1/4W
R361-364	1-249-417-11	CARBON 1K 5%	1/4W
R365	1-249-441-11	CARBON 100K 5%	1/4W
R366	1-249-437-11	CARBON 47K 5%	1/4W
R367	1-249-437-11	CARBON 47K 5%	1/4W
R368	1-249-441-11	CARBON 100K 5%	1/4W
R369	1-249-417-11	CARBON 1K 5%	1/4W
R370	1-249-425-11	CARBON 4.7K 5%	1/4W
R371	1-249-429-11	CARBON 10K 5%	1/4W
R397	1-249-417-11	CARBON 1K 5%	1/4W
R398	1-249-425-11	CARBON 4.7K 5%	1/4W
R401	1-249-417-11	CARBON 1K 5%	1/4W
R402	1-249-417-11	CARBON 1K 5%	1/4W
R403	1-247-807-31	CARBON 100 5%	1/4W
R404	1-247-807-31	CARBON 100 5%	1/4W
R405	1-249-425-11	CARBON 4.7K 5%	1/4W
R406	1-249-425-11	CARBON 4.7K 5%	1/4W
R407	1-249-417-11	CARBON 1K 5%	1/4W
R408	1-249-431-11	CARBON 15K 5%	1/4W
R409	1-249-407-11	CARBON 150 5%	1/4W
R410	1-249-436-11	CARBON 39K 5%	1/4W
R411	1-249-439-11	CARBON 68K 5%	1/4W
R412	1-247-903-00	CARBON 1M 5%	1/4W
R413	1-249-441-11	CARBON 100K 5%	1/4W
R414	1-249-429-11	CARBON 10K 5%	1/4W
R415	1-249-433-11	CARBON 22K 5%	1/4W
R416	1-249-413-11	CARBON 470 5%	1/4W
R417	1-249-425-11	CARBON 4.7K 5%	1/4W
R418	1-249-413-11	CARBON 470 5%	1/4W
R419	1-249-425-11	CARBON 4.7K 5%	1/4W
R430	1-249-441-11	CARBON 100K 5%	1/4W
R431	1-249-437-11	CARBON 47K 5%	1/4W
R432	1-249-441-11	CARBON 100K 5%	1/4W
R433	1-249-437-11	CARBON 47K 5%	1/4W
R434	1-249-441-11	CARBON 100K 5%	1/4W
R435	1-249-437-11	CARBON 47K 5%	1/4W
R436	1-249-437-11	CARBON 47K 5%	1/4W
R437	1-249-416-11	CARBON 820 5%	1/4W
R438	1-249-429-11	CARBON 10K 5%	1/4W
R440	1-249-429-11	CARBON 10K 5%	1/4W

SURROUND

VIDEO 3

VOLUME

Ref.No.	Part No.	Description	Remark
R441	1-249-429-11	CARBON	10K 5% 1/4W
R442	1-249-435-11	CARBON	33K 5% 1/4W
R443	1-249-433-11	CARBON	22K 5% 1/4W
R444	1-249-433-11	CARBON	22K 5% 1/4W
R445	1-249-429-11	CARBON	10K 5% 1/4W
R446	1-249-417-11	CARBON	1K 5% 1/4W
R463	1-249-441-11	CARBON	100K 5% 1/4W
R464	1-249-429-11	CARBON	10K 5% 1/4W
R465	1-249-429-11	CARBON	10K 5% 1/4W
R466	1-249-413-11	CARBON	470 5% 1/4W
R467	1-249-425-11	CARBON	4.7K 5% 1/4W
R468	1-249-413-11	CARBON	470 5% 1/4W
R469	1-249-425-11	CARBON	4.7K 5% 1/4W
R501	1-249-417-11	CARBON	1K 5% 1/4W
R502	1-249-441-11	CARBON	100K 5% 1/4W
R503	1-249-413-11	CARBON	470 5% 1/4W
R504	1-249-440-11	CARBON	82K 5% 1/4W
R505	1-249-433-11	CARBON	22K 5% 1/4W
R506	1-249-413-11	CARBON	470 5% 1/4W
R507	1-249-427-11	CARBON	6.8K 5% 1/4W
R508	1-247-883-00	CARBON	150K 5% 1/4W
R509	1-249-423-11	CARBON	3.3K 5% 1/4W
R510	1-247-903-00	CARBON	1M 5% 1/4W
R511	1-249-441-11	CARBON	100K 5% 1/4W
R512	1-249-426-11	CARBON	5.6K 5% 1/4W
R513	1-249-441-11	CARBON	100K 5% 1/4W
R515	1-249-434-11	CARBON	27K 5% 1/4W
R516	1-249-426-11	CARBON	5.6K 5% 1/4W
R517	1-249-418-11	CARBON	1.2K 5% 1/4W
R518	1-249-415-11	CARBON	680 5% 1/4W
R519	1-249-431-11	CARBON	15K 5% 1/4W
R521	1-249-417-11	CARBON	1K 5% 1/4W
R523	1-249-438-11	CARBON	56K 5% 1/4W
R524	1-249-413-11	CARBON	470 5% 1/4W
R525	1-249-412-11	CARBON	390 5% 1/4W
R526	1-249-438-11	CARBON	56K 5% 1/4W
R551	1-249-417-11	CARBON	1K 5% 1/4W
R552	1-249-441-11	CARBON	100K 5% 1/4W
R553	1-249-413-11	CARBON	470 5% 1/4W
R554	1-249-440-11	CARBON	82K 5% 1/4W
R555	1-249-433-11	CARBON	22K 5% 1/4W
R556	1-249-413-11	CARBON	470 5% 1/4W
R557	1-249-427-11	CARBON	6.8K 5% 1/4W
R558	1-247-883-00	CARBON	150K 5% 1/4W
R559	1-249-423-11	CARBON	3.3K 5% 1/4W
R560	1-247-903-00	CARBON	1M 5% 1/4W
R561	1-249-441-11	CARBON	100K 5% 1/4W
R562	1-249-426-11	CARBON	5.6K 5% 1/4W
R563	1-249-441-11	CARBON	100K 5% 1/4W

Ref.No.	Part No.	Description	Remark
R565	1-249-434-11	CARBON	27K 5% 1/4W
R566	1-249-426-11	CARBON	5.6K 5% 1/4W
R567	1-249-418-11	CARBON	1.2K 5% 1/4W
R568	1-249-415-11	CARBON	680 5% 1/4W
R569	1-249-431-11	CARBON	15K 5% 1/4W
△R592	1-249-397-11	CARBON	22 5% 1/4W F
△R593	1-249-397-11	CARBON	22 5% 1/4W F
R594	1-247-903-00	CARBON	1M 5% 1/4W
R595	1-249-425-11	CARBON	4.7K 5% 1/4W
R596	1-249-419-11	CARBON	1.5K 5% 1/4W
R597	1-249-419-11	CARBON	1.5K 5% 1/4W
R598	1-249-425-11	CARBON	4.7K 5% 1/4W
R599	1-249-417-11	CARBON	1K 5% 1/4W
< TERMINAL >			
TM401	1-537-734-11	TERMINAL BOARD, ANT (ANTENNA)	
< TUNER >			
TU401	1-693-286-11	TUNER (FCC)	
< VIBRATOR >			
X401	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	

*	1-656-632-11	VIDEO 3 BOARD	

< CAPACITOR >			
C299	1-164-159-11	CERAMIC	0.1uF 50V
< CONNECTOR >			
CNP299	1-770-865-11	CONNECTOR, BOARD TO BOARD 7P	
< JACK >			
J299	1-764-190-21	JACK, PIN 3P (VIDEO 3 INPUT)	
< RESISTOR >			
R297-299	1-249-403-11	CARBON	68 5% 1/4W

*	1-656-633-11	VOLUME BOARD	

< CONNECTOR >			
CNJ405	1-695-095-11	SOCKET, CONNECTOR 13P	
CNP108	1-770-389-11	PIN, CONNECTOR (PC BOARD) 5P	

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

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

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R499	1-249-411-11	CARBON 330 5% 1/4W	
< VARIABLE RESISTOR >			
RV401	1-223-863-11	RES, VAR, CARBON 10K/100KX4 (MASTER)	

*	1-656-650-11	VS BOARD (PX)	

< CONNECTOR >			
CNP910	1-564-321-00	PIN, CONNECTOR 2P (PX)	
* CNP911	1-564-687-11	PIN, CONNECTOR 3P (PX)	
* CNP912	1-564-687-11	PIN, CONNECTOR 3P (PX)	
< SWITCH >			
△S902	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (PX)	

MISCELLANEOUS			

16	1-773-723-11	WIRE (FLAT TYPE) (21 CORE)	
17	1-773-603-11	WIRE (FLAT TYPE) (15 CORE)	
19	1-773-709-11	WIRE (FLAT TYPE) (21 CORE)	
△80	1-590-074-11	CORD, POWER (PX)	
△80	1-769-743-11	CORD, POWER (US, Canadian)	
△T901	1-427-726-11	TRANSFORMER, POWER (US)	
△T901	1-427-727-11	TRANSFORMER, POWER (Canadian)	
△T901	1-427-976-11	TRANSFORMER, POWER (PX)	

ACCESSORIES & PACKING MATERIALS			

	1-501-374-11	ANTENNA, LOOP	
	1-501-662-11	ANTENNA (REMOTE CONTROL)	
	3-798-950-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-798-950-21	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-800-476-11	MANUAL, INSTRUCTION (CARD) (ENGLISH)	
	3-800-476-21	MANUAL, INSTRUCTION (CARD) (FRENCH) (Canadian)	
	3-800-843-01	INSTRUCTION (US, Canadian)	
*	4-964-565-11	CUSHION	
*	4-975-577-01	INDIVIDUAL CARTON	
	8-917-208-90	REPEATER, IR RM-IR100 SET	
	A-4352-701-A	REMOTE COMMANDER (RM-VP1)	
	X-4944-184-1	LID ASSY, BATTERY CASE (For RM-VP1)	

Ref. No.	Part No.	Description	Remark

HARDWARE LIST			

#1	7-682-548-09	SCREW +BVTT 3×8 (S)	
#2	7-685-646-79	SCREW +BVTP 3×8 TYPE2 IT-3	
#3	7-682-548-04	SCREW +BVTT 3×8 (S)	

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