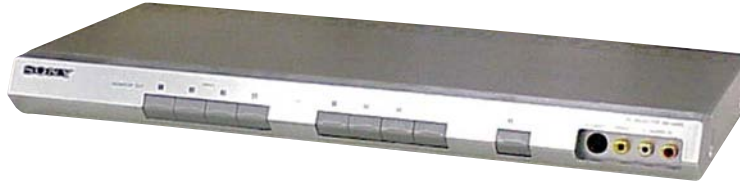


SB-V60S

SERVICE MANUAL

Ver. 1.0 2005. 01

US Model
Canadian Model



SPECIFICATIONS

Input	S-VIDEO	4-pin mini DIN × 4
	VIDEO	PHONO jack × 4
	AUDIO L/R	PHONO jack × 4
	(INPUT3 is switchable between the front and rear panel)	
Output	S-VIDEO	4-pin mini DIN × 2
	VIDEO	PHONO jack × 2
	AUDIO L/R	PHONO jack × 2
Dimensions (approx.)	430 × 42 × 231 mm	
	(17 × 1 11/16 × 9 1/8 in.) (w/h/d) including projecting parts	
Mass (approx.)	2 kg (4 lb. 7 oz.)	
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)	
Supplied accessories	Operating Instructions (1), Label (1), Warranty (1)	

Design and specifications are subject to change without notice.

● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity

Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

AV SELECTOR

9-879-434-01

2005A04-1

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Sony Corporation

Personal Audio Company

Published by Sony Engineering Corporation

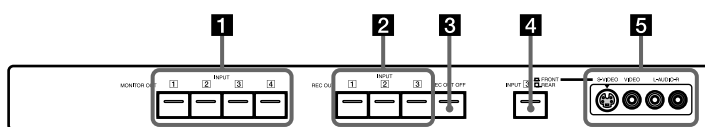
SONY®

SECTION 1 GENERAL

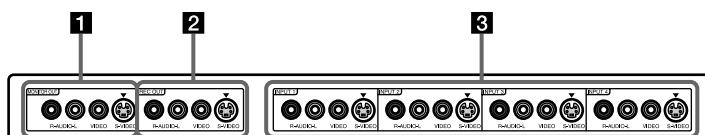
This section is extracted
from instruction manual.

A

Front panel / Panneau avant / Panel frontal



Rear panel / Panneau arriere / Panel posterior



Locating the Parts and Controls (see fig. A)

Front panel

- 1** INPUT SELECT buttons for MONITOR OUT
Press one of the INPUT **1** - **4** buttons to select the input to be output to MONITOR OUT for displaying on a TV or monitor, etc.
- 2** INPUT SELECT buttons for REC OUT
Press one of the INPUT **1** - **3** buttons to select the input to be output to MONITOR OUT for recording to a DVD/HDD recorder or VCR, etc.
- 3** REC OUT OFF button
Turn off all INPUT SELECT buttons for REC OUT.
- 4** INPUT **3** FRONT/REAR button
Switches the effective INPUT3 jack between the rear and front panels.
- 5** INPUT3 jack
S-VIDEO / VIDEO / AUDIO-L / AUDIO-R
Connect to the output jacks of a video game or camcorder.

Rear panel

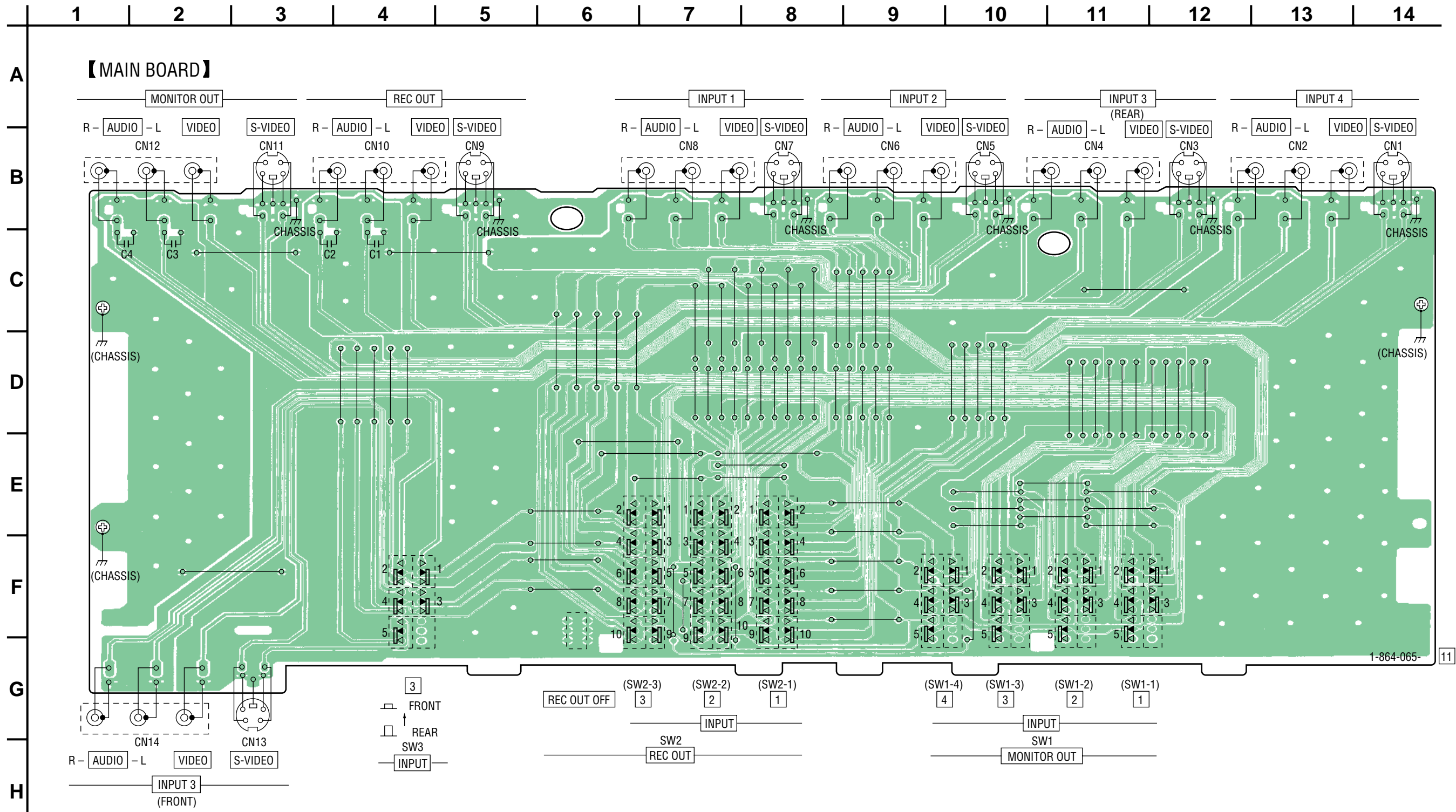
- 1** MONITOR OUT jack
S-VIDEO / VIDEO / AUDIO-L / AUDIO-R
- 2** REC OUT jack
S-VIDEO / VIDEO / AUDIO-L / AUDIO-R
- 3** INPUT 1 - 4 jacks
S-VIDEO / VIDEO / AUDIO-L / AUDIO-R

How to use the supplied labels

To determine which device is connected where without checking the rear panel, put labels on the front panel of the unit. You can use plain labels marked with an oil-based ink pen.

SECTION 2 DIAGRAMS

2-1. PRINTED WIRING BOARD — MAIN SECTION —  : Uses unleaded solder.



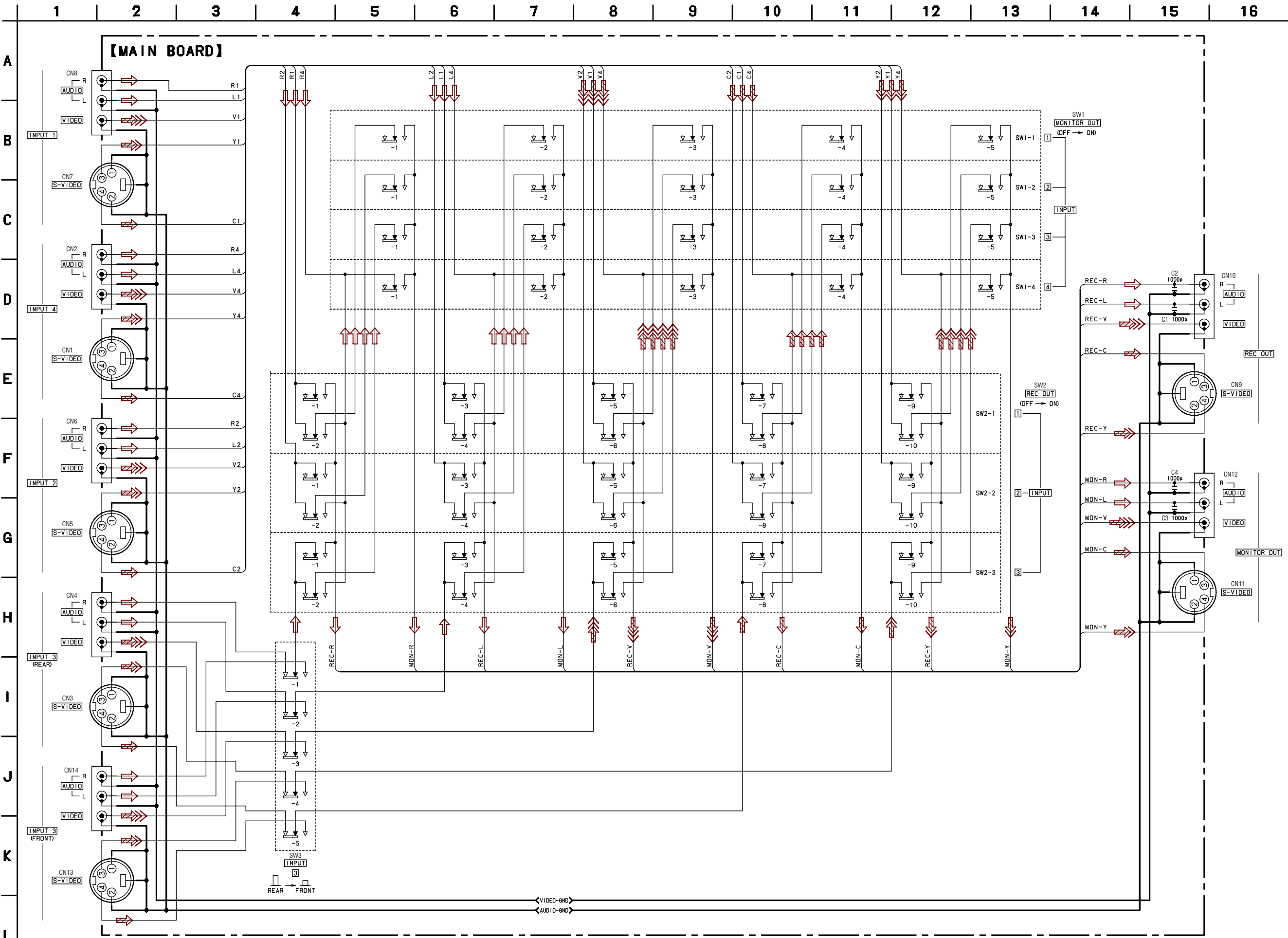
Common Note on Printed Wiring Boards:

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

Common Note on Schematic Diagrams:

- All capacitors are in μF unless otherwise noted. (p: pF)
- 50 WV or less are not indicated except for electrolytics and tantalums.
- : panel designation.
- Signal path.
 - : Audio
 - ▤ : Chroma
 - ▥ : Luminance
 - ▧ : Video (Composite)

2-2. SCHEMATIC DIAGRAM — MAIN SECTION —



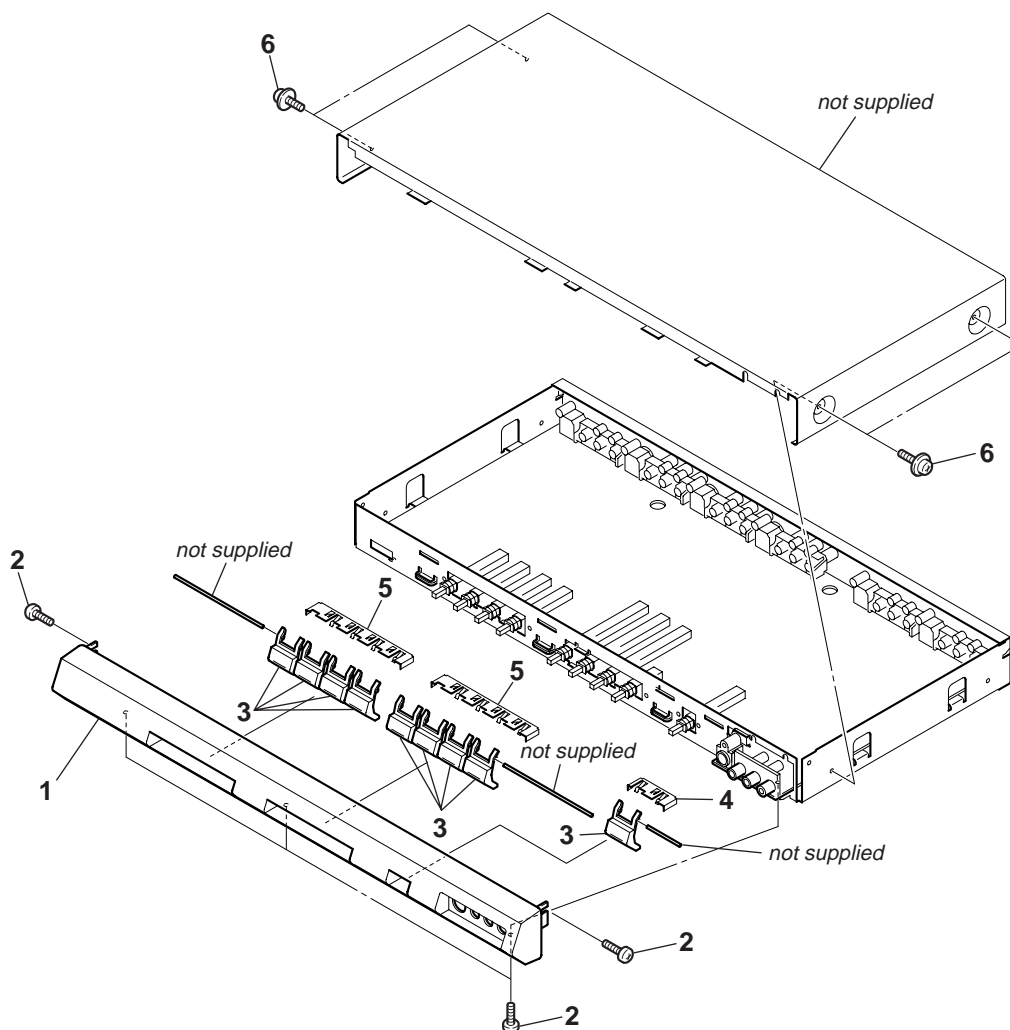
SECTION 3 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

3-1. FRONT SECTION



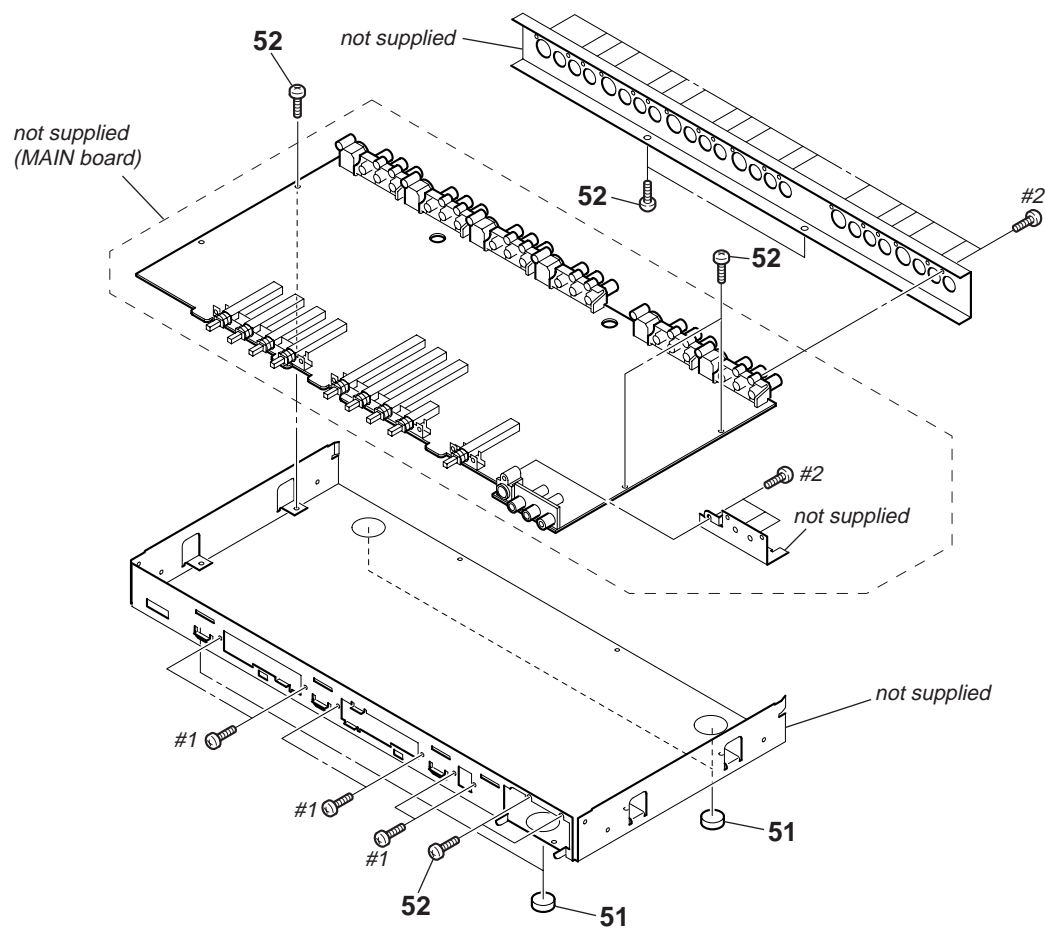
Ref. No.	Part No.	Description
1	A-1108-676-A	FRONT PANEL ASSY
2	4-674-320-01	SCREW (3X4)
3	2-177-663-01	BUTTON

Remark

Ref. No.	Part No.	Description
4	2-177-666-01	SPRING (B), LEAF
5	2-177-665-01	SPRING (A), LEAF
6	4-886-821-11	SCREW, M3 CASE

Remark

3-2. REAR SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
51	2-177-661-01	FOOT, RUBBER		#1	7-682-147-01	SCREW +P 3X6	
52	2-409-839-01	SCREW (+P TP) 3X6		#2	7-685-145-14	SCREW +P 3X6 TYPE2 NON-SLIT	

SECTION 4

ELECTRICAL PARTS LIST

MAIN

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 and -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

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

- Accessories are given in the last of this parts list.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		MAIN BOARD				ACCESSORY	
		*****				*****	
	7-685-145-14	SCREW +P 3X6 TYPE2 NON-SLIT			2-177-408-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH)	
		< CAPACITOR >					
C1	1-162-294-31	CERAMIC	0.001uF 10% 50V				
C2	1-162-294-31	CERAMIC	0.001uF 10% 50V				
C3	1-162-294-31	CERAMIC	0.001uF 10% 50V				
C4	1-162-294-31	CERAMIC	0.001uF 10% 50V				
		< JACK >					
CN1	1-818-865-11	CONNECTOR, S TERMINAL (INPUT 4 (S-VIDEO))					
CN2	1-818-780-11	JACK, PIN 3P (INPUT 4 (VIDEO,AUDIO))					
CN3	1-818-865-11	CONNECTOR, S TERMINAL (INPUT 3 (REAR) (S-VIDEO))					
CN4	1-818-780-11	JACK, PIN 3P (INPUT 3 (REAR) (VIDEO,AUDIO))					
CN5	1-818-865-11	CONNECTOR, S TERMINAL (INPUT 2 (S-VIDEO))					
CN6	1-818-780-11	JACK, PIN 3P (INPUT 2 (VIDEO,AUDIO))					
CN7	1-818-865-11	CONNECTOR, S TERMINAL (INPUT 1 (S-VIDEO))					
CN8	1-818-780-11	JACK, PIN 3P (INPUT 1 (VIDEO,AUDIO))					
CN9	1-818-865-11	CONNECTOR, S TERMINAL (REC OUT (S-VIDEO))					
CN10	1-818-780-11	JACK, PIN 3P (REC OUT (VIDEO,AUDIO))					
CN11	1-818-865-11	CONNECTOR, S TERMINAL (MONITOR OUT (S-VIDEO))					
CN12	1-818-780-11	JACK, PIN 3P (MONITOR OUT (VIDEO,AUDIO))					
CN13	1-818-781-11	CONNECTOR, S TERMINAL (INPUT 3 (FRONT) (S-VIDEO))					
CN14	1-818-779-11	JACK, PIN 3P (INPUT 3 (FRONT) (VIDEO,AUDIO))					
		< SWITCH >					
SW1	1-786-778-11	SWITCH, PUSH (4 KEY) (MONITOR OUT, INPUT 1-4)					
SW2	1-786-779-11	SWITCH, PUSH (4 KEY) (REC OUT,INPUT 1-3, REC CUT OFF)					
SW3	1-786-780-11	SWITCH, PUSH (1 KEY) (INPUT 3)					

REVISION HISTORY

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

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

[illegible]