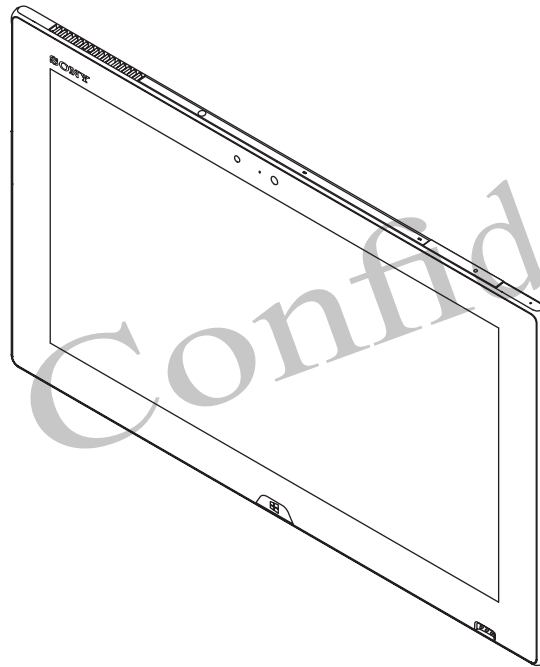


SVT112 Series

SERVICE MANUAL

Ver.5 2013L

Revision History



- Design and specifications are subject to change without notice.


PERSONAL COMPUTER

SONY®

Information in this document is subject to change without notice.

Sony, VAIO and CLIE are trademarks or registered trademarks of Sony. Microsoft, Windows, Windows Media, Outlook, Bookshelf and other Microsoft products are trademarks or registered trademarks of Microsoft Corporation in the United States and other countries. The word Bluetooth and the Bluetooth logo are trademarks of Bluetooth SIG, Inc. AMD, the AMD logo, other AMD product names and combinations thereof are trademarks of Advanced Micro Devices, Inc. Intel Inside logo, Pentium, Celeron and Core are trademarks or registered trademarks of Intel Corporation. Transmeta, the Transmeta logo, Crusoe Processor, the Crusoe logo and combinations thereof are trademarks of Transmeta Corporation in the USA and other countries. Graffiti, HotSync, PalmModem, and Palm OS are registered trademarks, and the Hotsync logo and Palm are trademarks of Palm, Inc. or its subsidiaries. (M) and Motrola are trademarks of Motrola, Inc. Other Motrola products and services with (R) mark like Dragonball are the trademarks of Motrola, Inc.

All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

The components identified by mark  contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mis-treated. Do not disassemble, heat above 60°C (140°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, mutilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.


Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions.

Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use desinated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the  mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...


Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAP- PORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS 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.

Sony Confidential

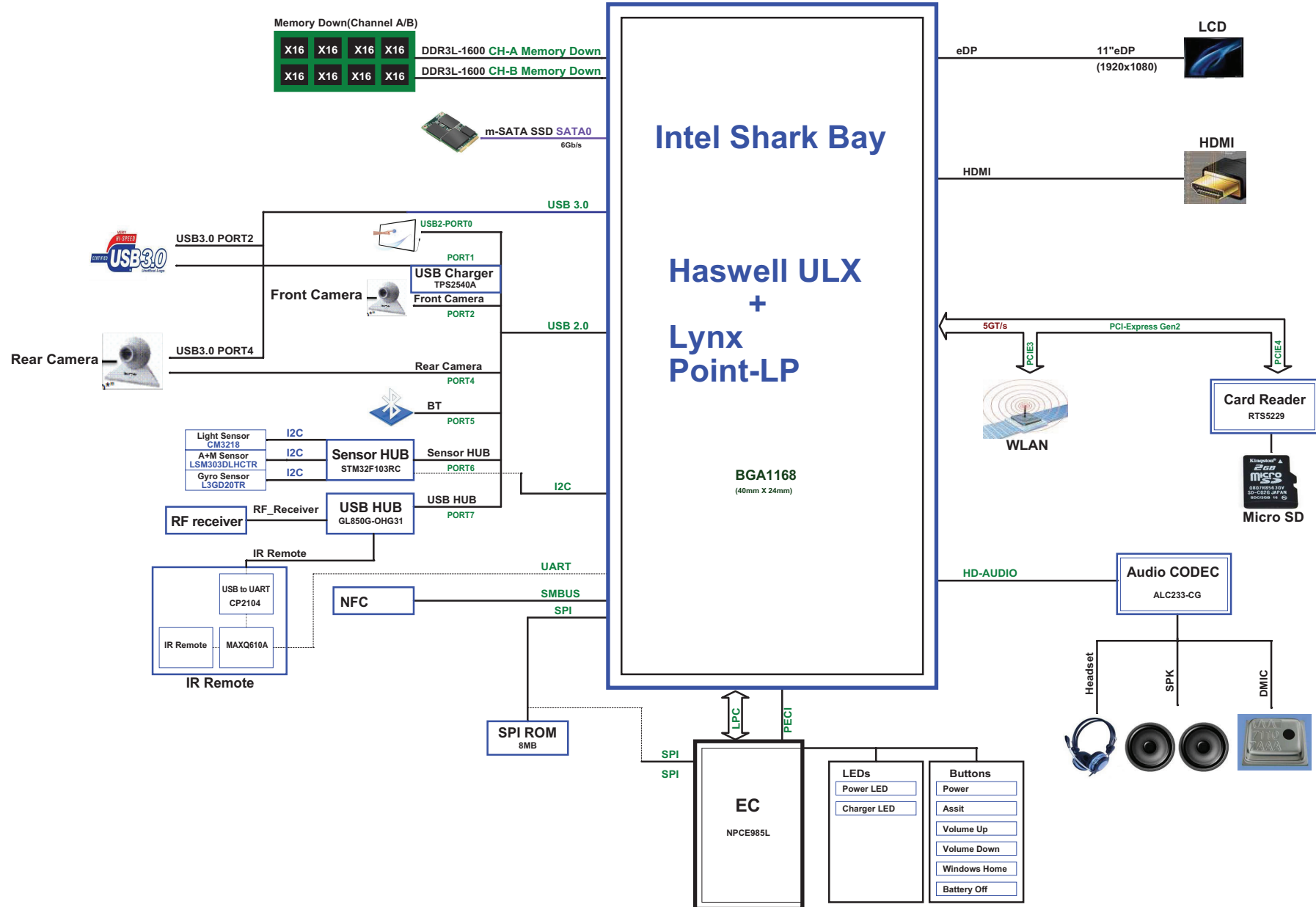
SVT112 Series (9-890-978-XX)

Table of Contents

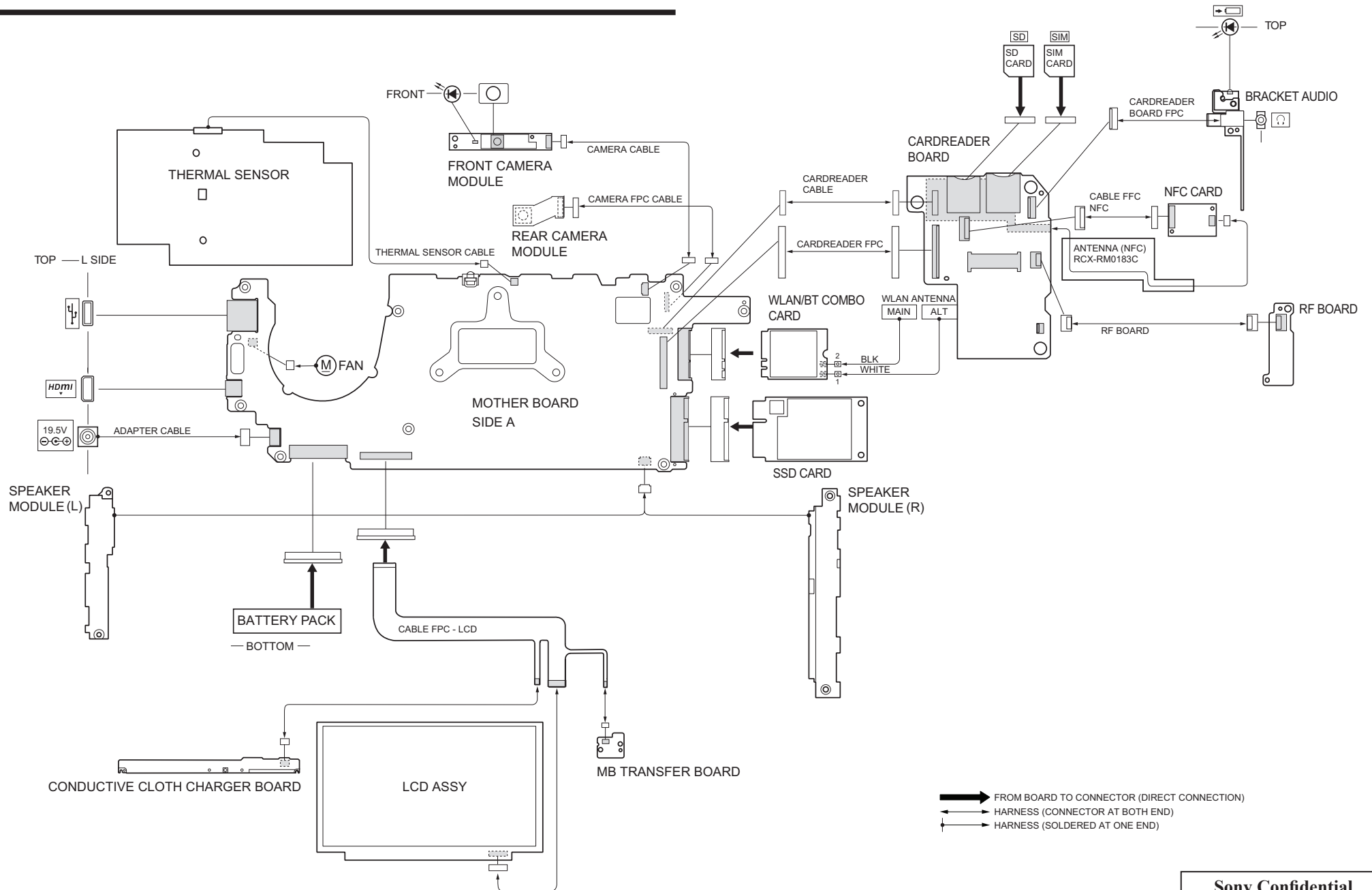
<u>Section</u>	<u>Title</u>	<u>Page</u>
CHAPTER 1. BLOCK DIAGRAM	1-1 (to 1-1)
CHAPTER 2. FRAME HARNESS DIAGRAM	2-1 (to 2-1)
CHAPTER 3. EXPLODED VIEWS		
Screws		
S-1	3-2
Mother Board		
M-1	3-3
Bottom		
B-1	3-4
LCD		
L-1	3-5
Accessories		
A-1	3-6 (to 3-6)

- History of the changes is shown as the “Revision History” at the end of this data.

CHAPTER 1. BLOCK DIAGRAM

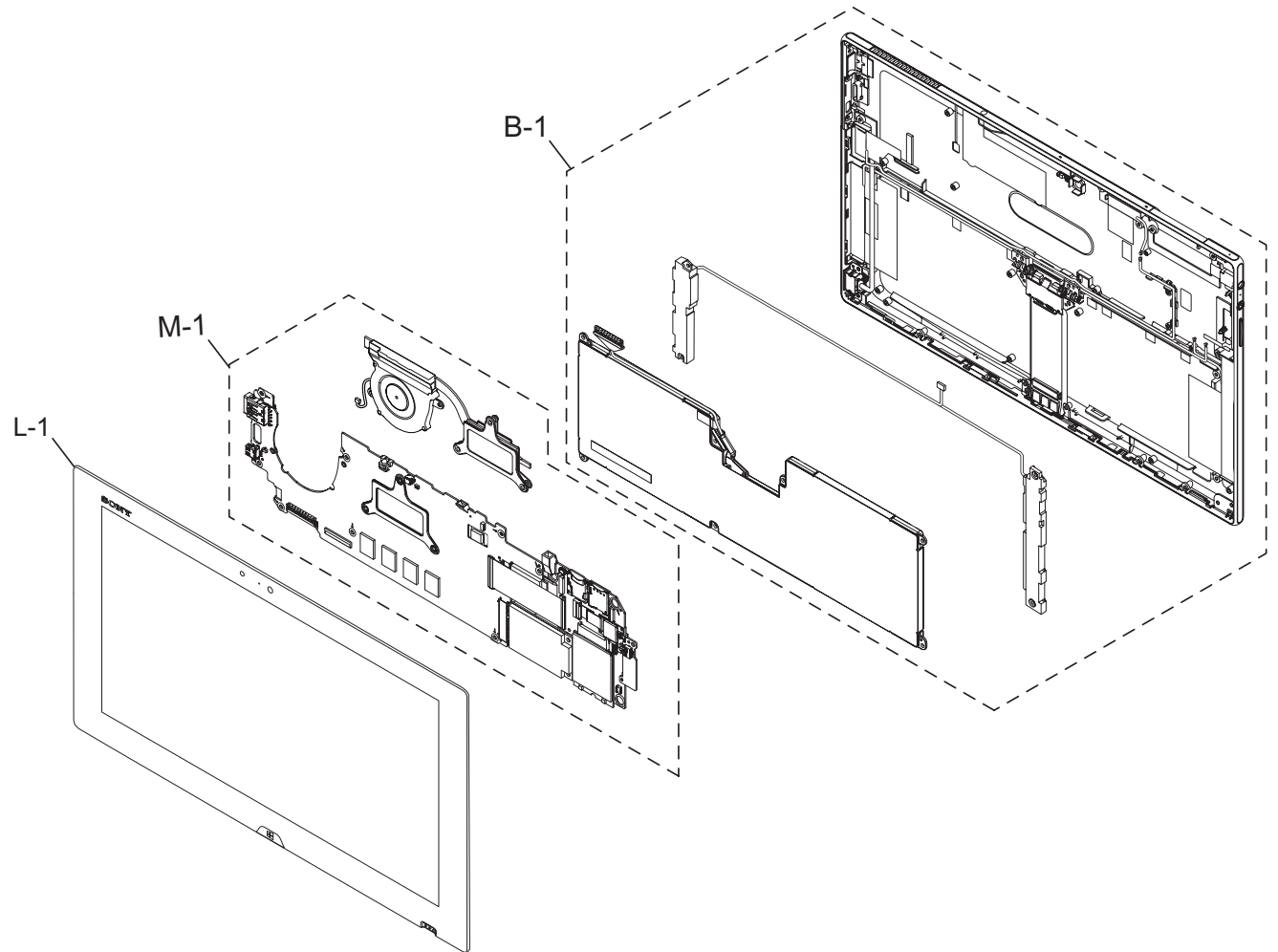


CHAPTER 2. FRAME HARNESS DIAGRAM







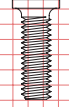




CHAPTER 3. EXPLODED VIEWS

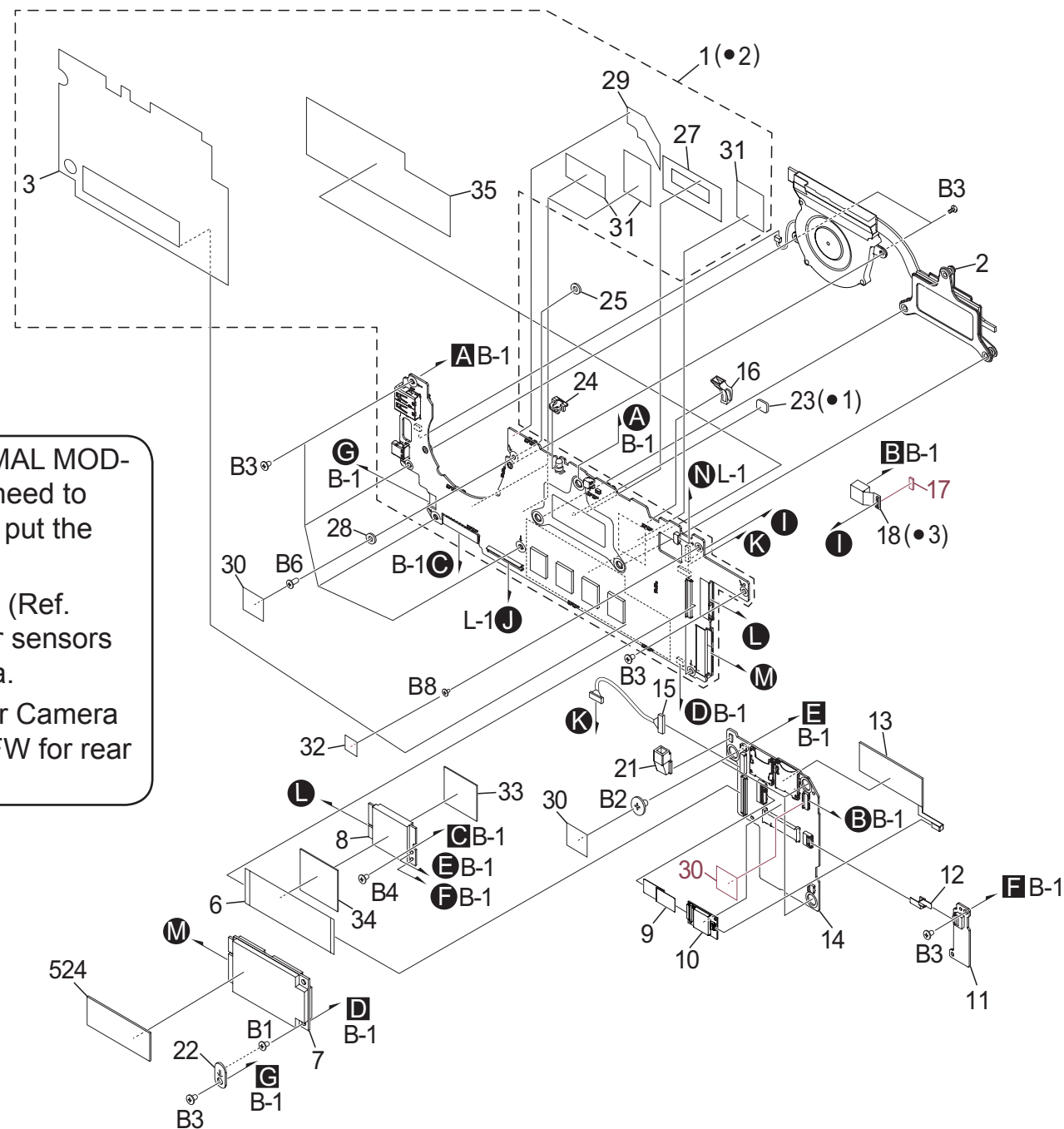
Section	Page
Screws	
S-1	3-2
Mother Board	
M-1	3-3
Bottom	
B-1	3-4
LCD	
L-1	3-5
Accessories	
A-1	3-6



S-1. Screws

B1	B2	B3	B4	B5	B6	B7	B8	B9
								
M2XL2.3	M2XL2	M2XL3	M1.6XL2	M1.6XL3	M2XL4	M2XL6	M2XL2.5	M2XL3.5
Black	Black	Black	Silver	Black	Silver	Black	Black	Black

M-1. Mother Board

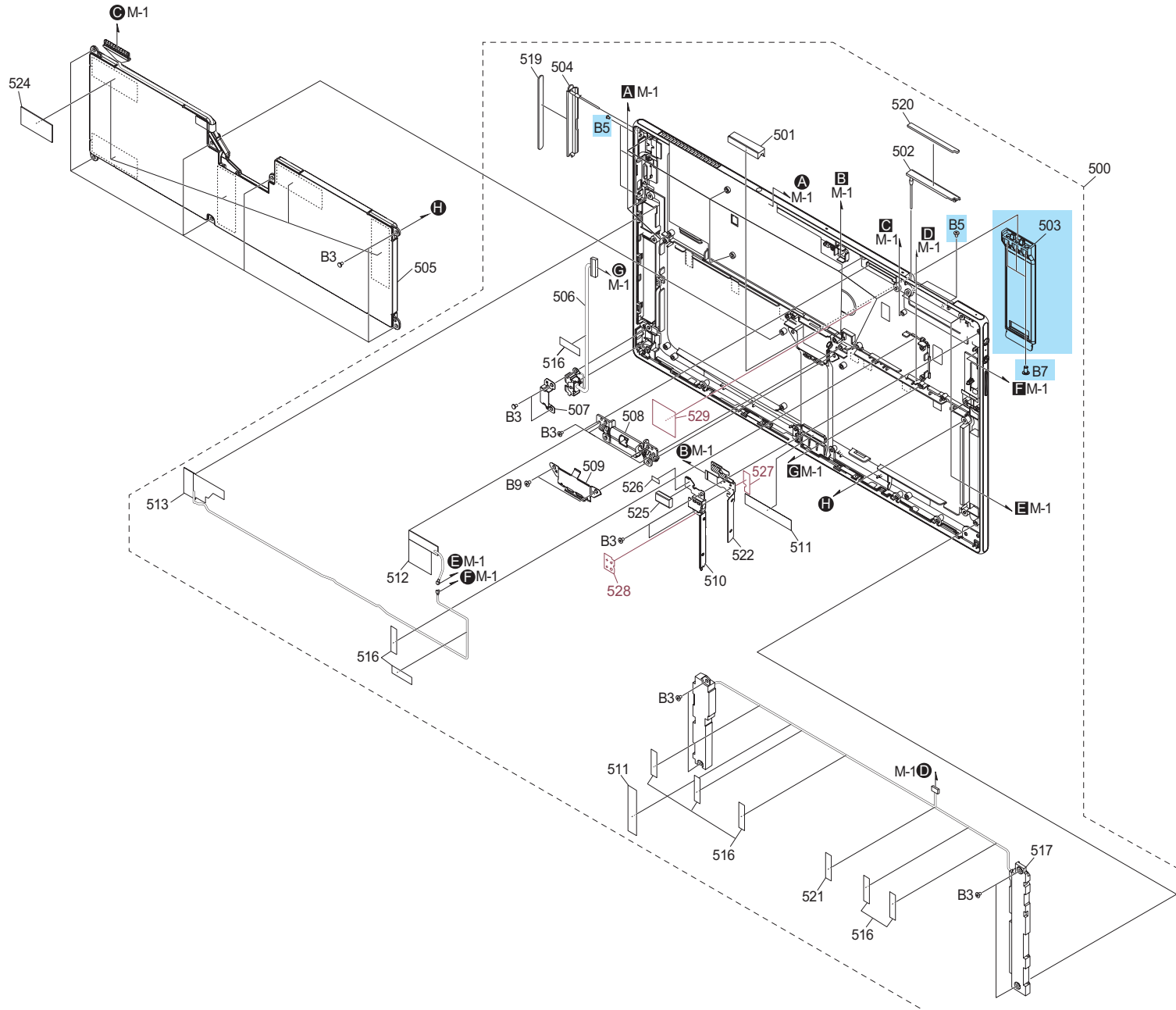


(● 1) When replacing THERMAL MODULE assembly (Ref. No. 2), need to clean off thermal grease and put the Ref. No. 23.

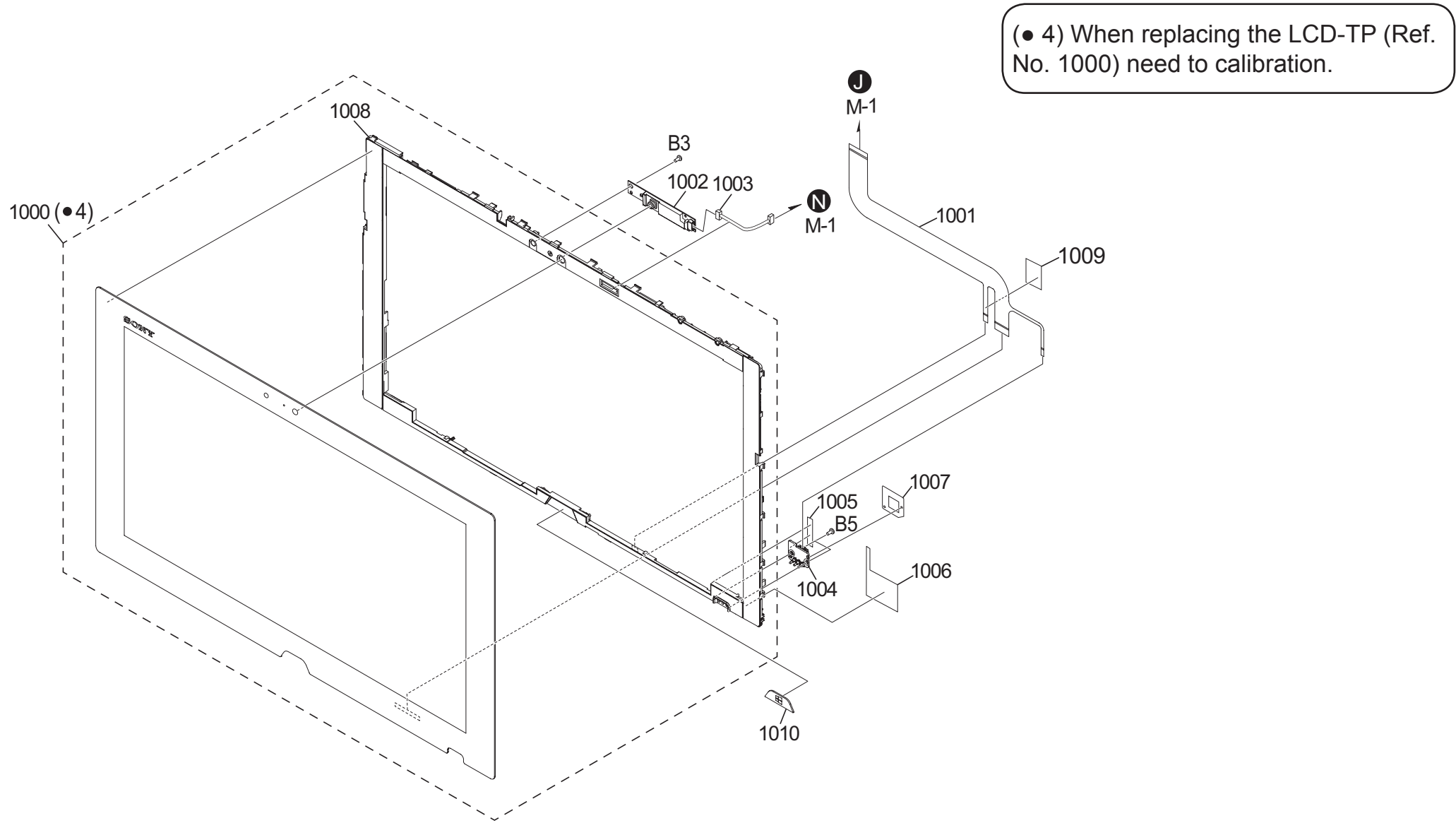
(● 2) When replacing the MB (Ref. No. 1), need to calibration for sensors and write FW for rear camera.

(● 3) When replacing the rear Camera (Ref. No. 18), need to write FW for rear camera.

B-1. Bottom



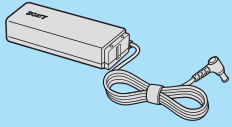
L-1. LCD



A-1. Accessories

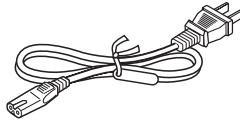
2001

AC Adaptor



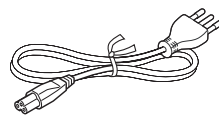
2006

Power Cord



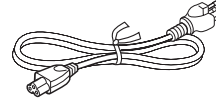
2011

Power Cord



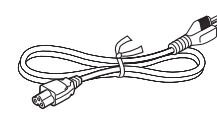
2016

Power Cord



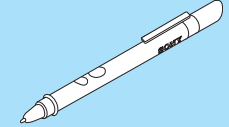
2021

Power Cord



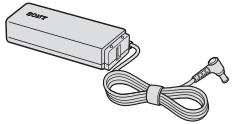
2026

DuoSense® Pen



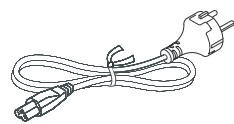
2002

AC Adaptor



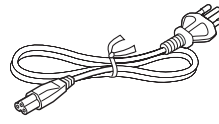
2007

Power Cord



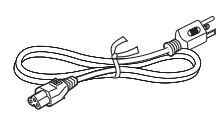
2012

Power Cord



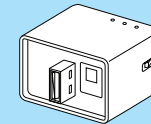
2017

Power Cord



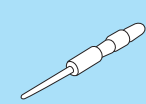
2022

Wireless Router



2027

Digitizer Pen Tip



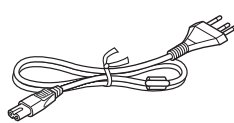
2003

Keyboard



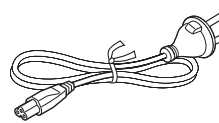
2008

Power Cord



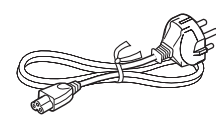
2013

Power Cord



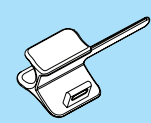
2018

Power Cord



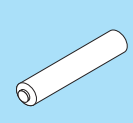
2023

Rubber Pen Holder



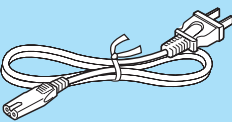
2028

Pen Battery



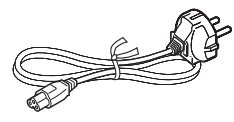
2004

Power Cord



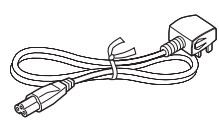
2009

Power Cord



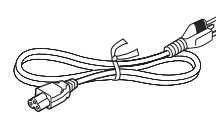
2014

Power Cord



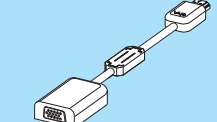
2019

Power Cord



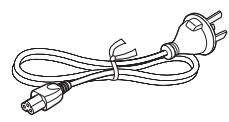
2024

VGA Adaptor



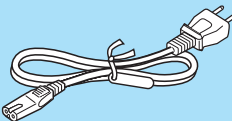
2029

Power Cord



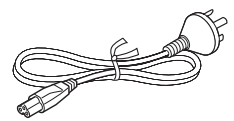
2005

Power Cord



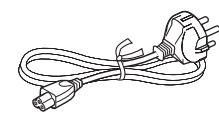
2010

Power Cord



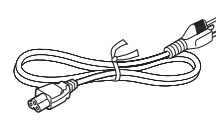
2015

Power Cord



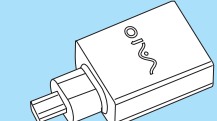
2020

Power Cord



2025

HDMI to HDMI Converter





SVT112 Series

This manual and the constituent data may not be replicated, copied nor reprinted in whole or in part without prior written authorization of Sony Corporation.

Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver.1	2013.08.28	First Edition	-
-02	Ver.2	2013.10.30	[ADD] page 3-2, page 3-3, page 3-4, page 3-5, page 3-6, [CHG] page 1-1, page 3-4, page 3-5, page 3-6, [DEL] page 2-1, page 3-4, page 3-5, page 3-6	-
-03	Ver.3	2013.11.12	[ADD] page 3-3, page 3-4, page 3-5, [CHG] page 3-3, page 3-4	-
-04	Ver.4	2013.12.10	[ADD] page 3-2, page 3-3, page 3-5, [CHG] page 3-4	-
-05	Ver.5	2013.12.26	[ADD] page 3-4, [CHG] page 3-3	-
<Remarks>				