DSC-S730

SERVICE MANUAL

Ver. 1.0 2007.11

Revision History

**Internal memory
ON BOARD**

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Tourist Model

Link

• SPECIFICATIONS	• DISASSEMBLY	• REPAIR PARTS LIST
• SERVICE NOTE	• BLOCK DIAGRAM	

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.

In case of the lens block assy, main board, or main frame assembly failure, contact your local Sony Service Headquarter for the measures.

DIGITAL STILL CAMERA

SONY®

DSC-S730
9-852-239-11

Sony EMCS Co.

2007K0200-1
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Published by Kohda TEC

Cyber-shot

MEMORY STICK TM

SPECIFICATIONS

[System]
Image device: 7.20 mm (1/2.5 type) color CCD,
    Primary color filter
Total pixel number of camera:
    Approx. 7 410 000 pixels
Effective pixel number of camera:
    Approx. 7 201 000 pixels
Lens: 3× zoom lens f = 5.8 – 17.4 mm (35 –
    105 mm when converted to a 35 mm still
    camera) F2.8 (W) – 4.8 (T)
Exposure control: Automatic exposure, Scene
    Selection (7 modes)
White balance: Automatic, Daylight, Cloudy,
    Fluorescent, Incandescent, Flash
File format (DCF compliant):
    Still images: Exif Ver. 2.21 JPEG compliant,
    DPOF compatible
    Movies: AVI (Motion JPEG)
Recording media: Internal Memory (approx.
    22 MB), "Memory Stick Duo"
Flash: Flash range (ISO sensitivity
    (Recommended Exposure Index) set to Auto):
    approx. 0.5 to 3.5 m (1 feet 7 3/4 inches to 11
    feet 5 7/8 inches) (W)/approx. 0.5 to 2.0 m (1
    feet 7 3/4 inches to 6 feet 6 3/4 inches) (T)

[Input and Output connectors]
 (USB)•A/V OUT terminal:
    Video, Audio (Monaural), USB
    communication
USB communication:
    Hi-Speed USB (USB 2.0 compliant)

[LCD screen]
LCD panel: 6.0 cm (2.4 type) TFT drive
Total number of dots: 112 320 (480×234) dots

[Power, general]
Power: LR6 (size AA) Alkaline batteries (2), 3 V
    HR15/51:HR6 (size AA) Nickel-Metal
    Hydride batteries (2) (not supplied), 2.4 V
    ZR6 (size AA) Oxy Nickel Primary Battery
    (2) (not supplied), 3 V
    AC-LS5K AC Adaptor (not supplied), 4.2 V
Power consumption (during shooting): 1.2 W
Operating temperature: 0 to 40℃ (32 to 104°F)
Storage temperature: –20 to +60℃ (–4 to +140°F)
Dimensions: 91.4×61.0×29.1 mm (3 5/8×2 1/2×
    1 3/16 inches) (W/H/D, excluding
    protrusions)
Mass: Approx. 189 g (6.7 oz) (including two
    batteries and strap, etc.)
Microphone: Monaural
Buzzer
Exif Print: Compatible
PRINT Image Matching III: Compatible
PictBridge: Compatible

Design and specifications are subject to change
without notice.

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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 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 PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. FLEXIBLE Circuit Board Repairing
   • Keep the temperature of the soldering iron around 270°C during repairing.
   • Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   • Be careful not to apply force on the conductor when soldering or unsoldering.

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.

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1. SERVICE NOTE

1-1. PROCESS AFTER FIXING FLASH ERROR

Method for Initializing the Flash Error

Initialize

Initializes the setting to the default setting.
Even if you execute this function, the images stored in the internal memory are retained.

① Select [OK] with ▲ on the control button, then press ●.
   The message "Initialize all settings Ready?" appears.

② Select [OK] with ▲, then press ●.
   The settings are reset to the default setting.

To cancel initializing

Select [Cancel] in step ① or ②, then press ●.

• Be sure not to power off the camera while initializing.

1-2. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY

The data can be copied/erased by the operations on the Setup screen. (When erasing the data, execute formatting the internal memory.)

Note: When replacing the camera, erase the data in internal memory of the board before replacement.

Method for Copying the Data in Internal Memory

Copy

Copies all images in the internal memory to a "Memory Stick Duo".

① Insert a "Memory Stick Duo" having sufficient free capacity.

② Select [OK] with ▲ on the control button, then press ●.
   The message "All data in internal memory will be copied Ready?" appears.

③ Select [OK] with ▲, then press ●.
   Copying starts.
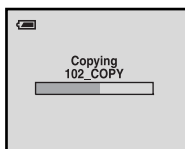
To cancel copying

Select [Cancel] in step ② or ③, then press ●.

• Use batteries with enough power remaining. If you attempt to copy image files using batteries with little remaining charge, the batteries may run out, causing copying to fail or possibly corrupting the data.
• You cannot select images to copy.
• The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the "Memory Stick Duo" after copying, then format the internal memory ([Format] in [Internal Memory Tool]).
• A new folder is created on the "Memory Stick Duo" and all the data will be copied to it. You cannot choose a specific folder and copy images to it.
• The ⟁ (Print order) marks on the images are not copied.

Method for Formatting the Internal Memory

This item does not appear when a "Memory Stick Duo" is inserted in the camera.

Format

Formats the internal memory.
• Note that formatting permanently erases all data in the internal memory, including even protected images.

① Select [OK] with ▲ on the control button, then press ●.
   The message "All data in internal memory will be erased Ready?" appears.

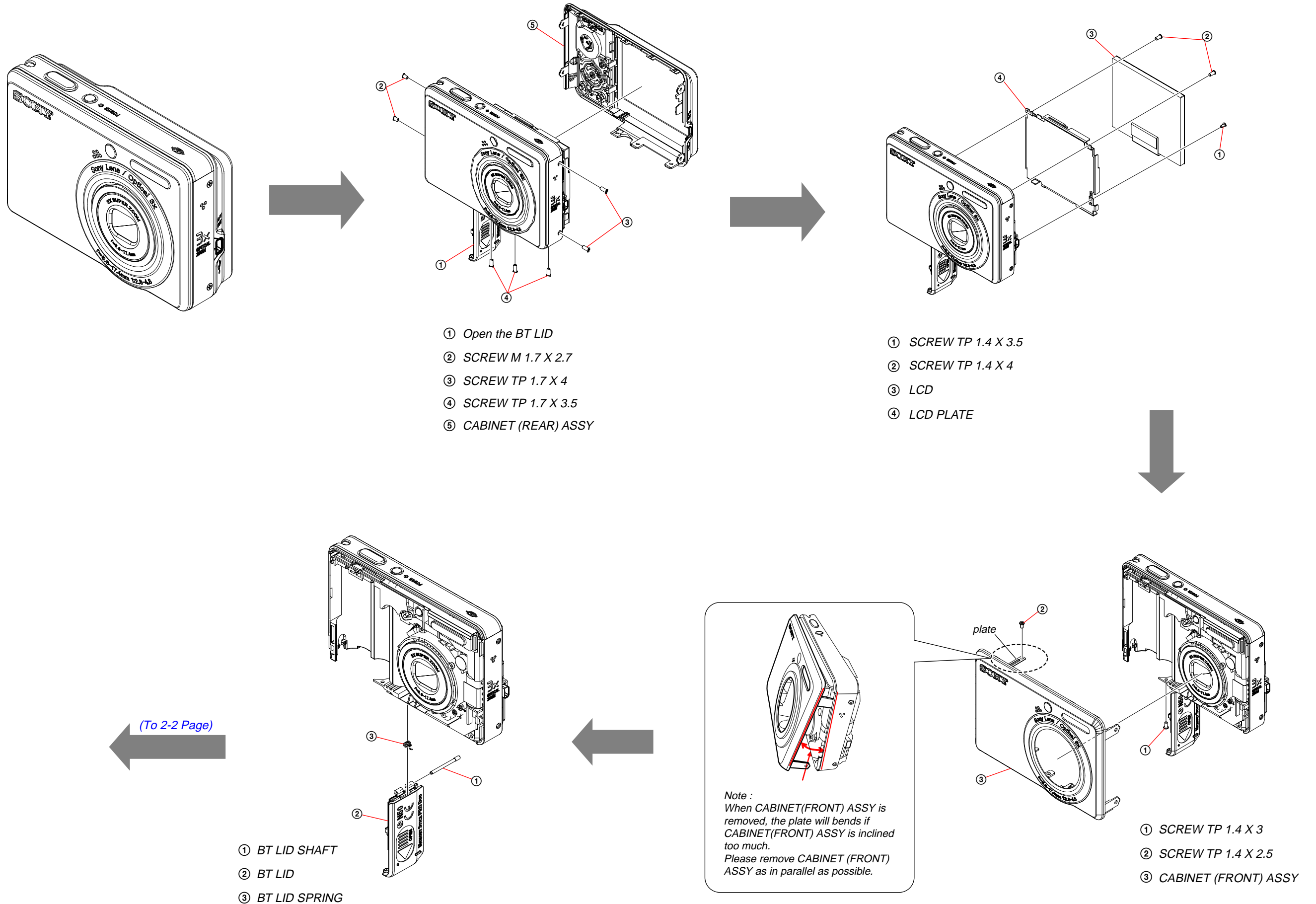② Select [OK] with ▲, then press ●.
   The format is complete.

To cancel formatting

Select [Cancel] in step ① or ②, then press ●.

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The following flow chart shows the disassembly procedure.

2-1. DISASSEMBLY

① Open the BT LID

② SCREW M 1.7 X 2.7

③ SCREW TP 1.7 X 4

④ SCREW TP 1.7 X 3.5

⑤ CABINET (REAR) ASSY

① SCREW TP 1.4 X 3.5

② SCREW TP 1.4 X 4

③ LCD

④ LCD PLATE

① BT LID SHAFT

② BT LID

③ BT LID SPRING

plate

Note :
When CABINET(FRONT) ASSY is
removed, the plate will bends if
CABINET(FRONT) ASSY is inclined
too much.
Please remove CABINET (FRONT)
ASSY as in parallel as possible.

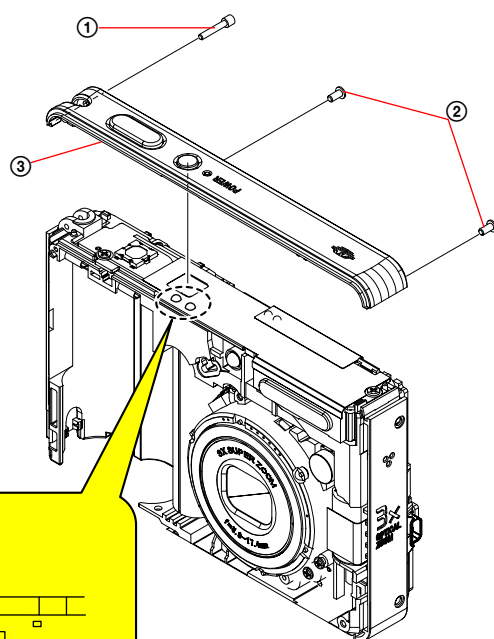① SCREW TP 1.4 X 3

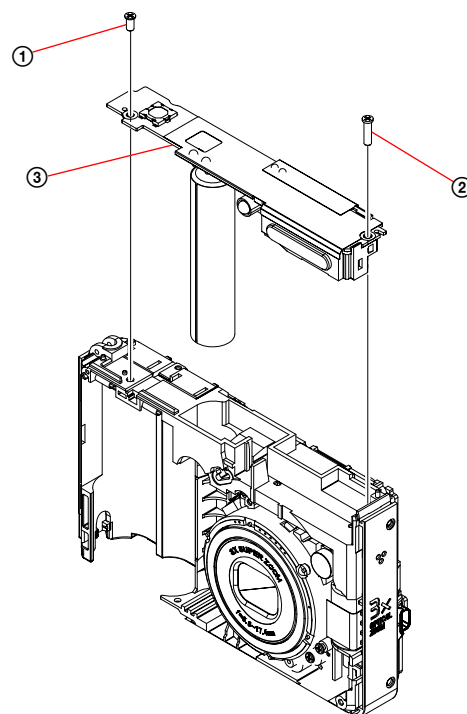② SCREW TP 1.4 X 2.5

③ CABINET (FRONT) ASSY
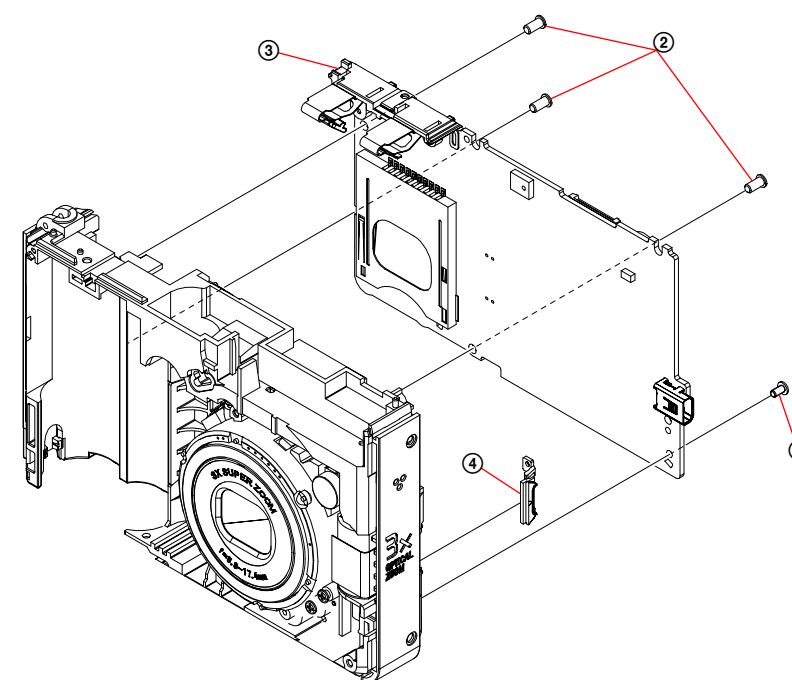
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☞ **Caution**

Shorting jig
(1kΩ / 1W)

Note :
After discharged, a transparent
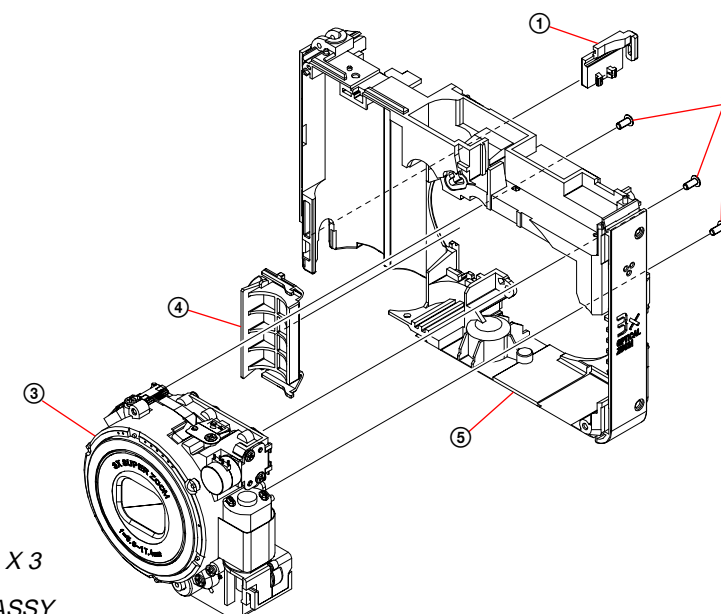seal is put again.
Do not lose the transparent seal
removed when discharged.

① STRAP SHAFT

② SCREW TP 1.4 X 3

③ RL BLOCK

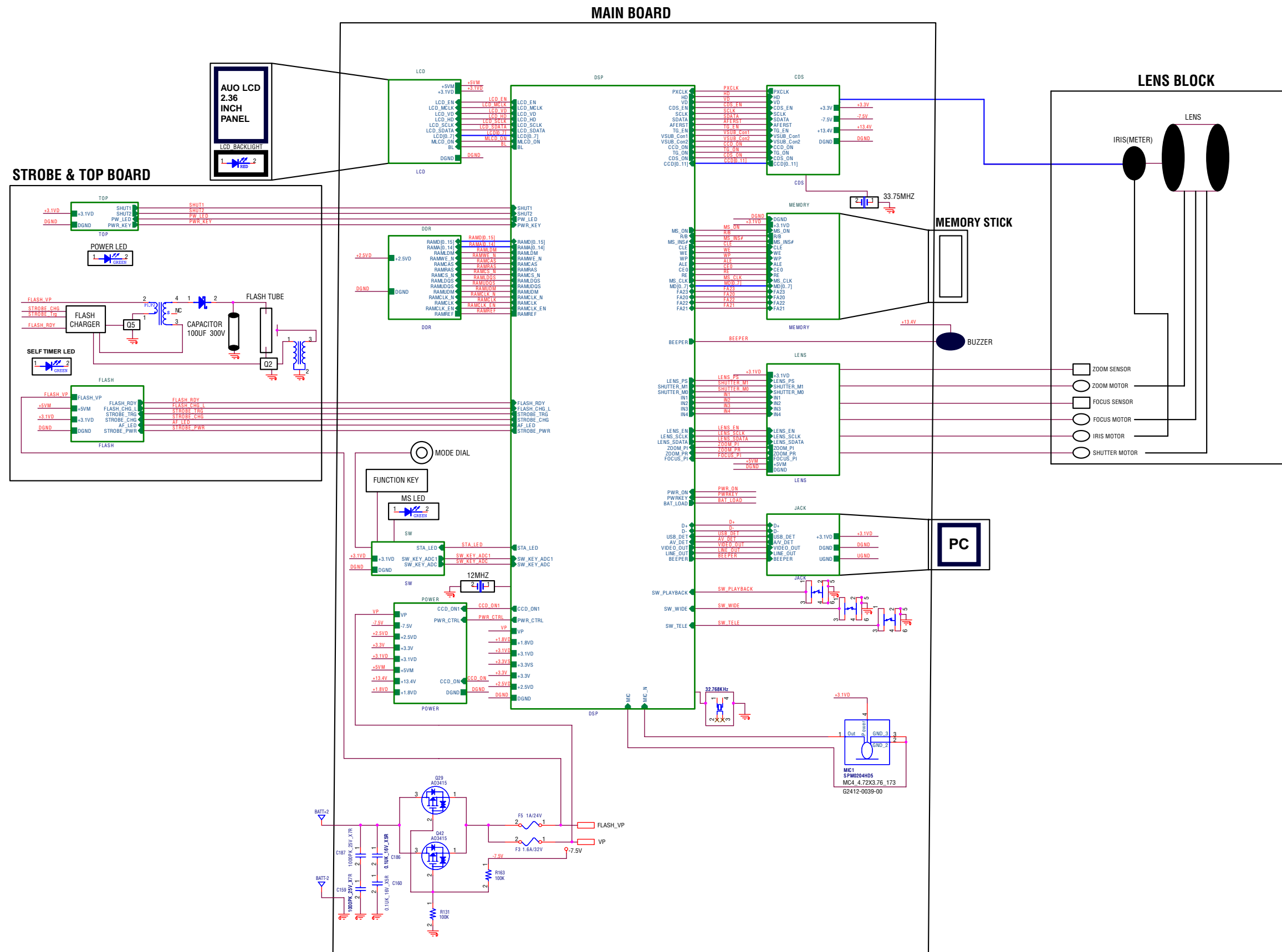① SCREW TP 1.7 X 3.5

② SCREW TP 1.7 X 6.5

③ ST BLOCK ASSY

① SCREW TP 1.4 X 2.5

② SCREW TP 1.7 X 3.5

③ MAIN MOUNT

④ SUPPORT (JACK)

① JACK LID

② SCREW TP 1.4 X 3

③ LENS BLOCK ASSY

④ LID

⑤ MAIN FRAME

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3-1. OVERALL BLOCK DIAGRAM

MAIN BOARD

LENS BLOCK

LENS

IRIS(METER)

MEMORY STICK

STROBE & TOP BOARD

AUO LCD 2.36 INCH PANEL

LCD_BACKLIGHT

TOP

POWER LED

SELF TIMER LED

FLASH CHARGER

CAPACITOR 100UF 300V

FLASH TUBE

FLASH

MODE DIAL

FUNCTION KEY

MS LED

SW

POWER

ZOOM SENSOR
ZOOM MOTOR
FOCUS SENSOR
FOCUS MOTOR
IRIS MOTOR
SHUTTER MOTOR

BUZZER

PC

33.75MHZ

12MHZ

32.768KHz

MIC1
SPM0204HD5

F5 1A/24V
FLASH_VP
VP
F3 1.6A/32V
-7.5V

Q29 AO3415
Q42 AO3415

R163 100K
R131 100K

DSP
CDS
DDR
MEMORY
LENS
JACK

4. REPAIR PARTS LIST

4-1. EXPLODED VIEWS
4-1-1. OVERALL SECTION

ns: not supplied

Main Frame Block
(See Page 4-2)
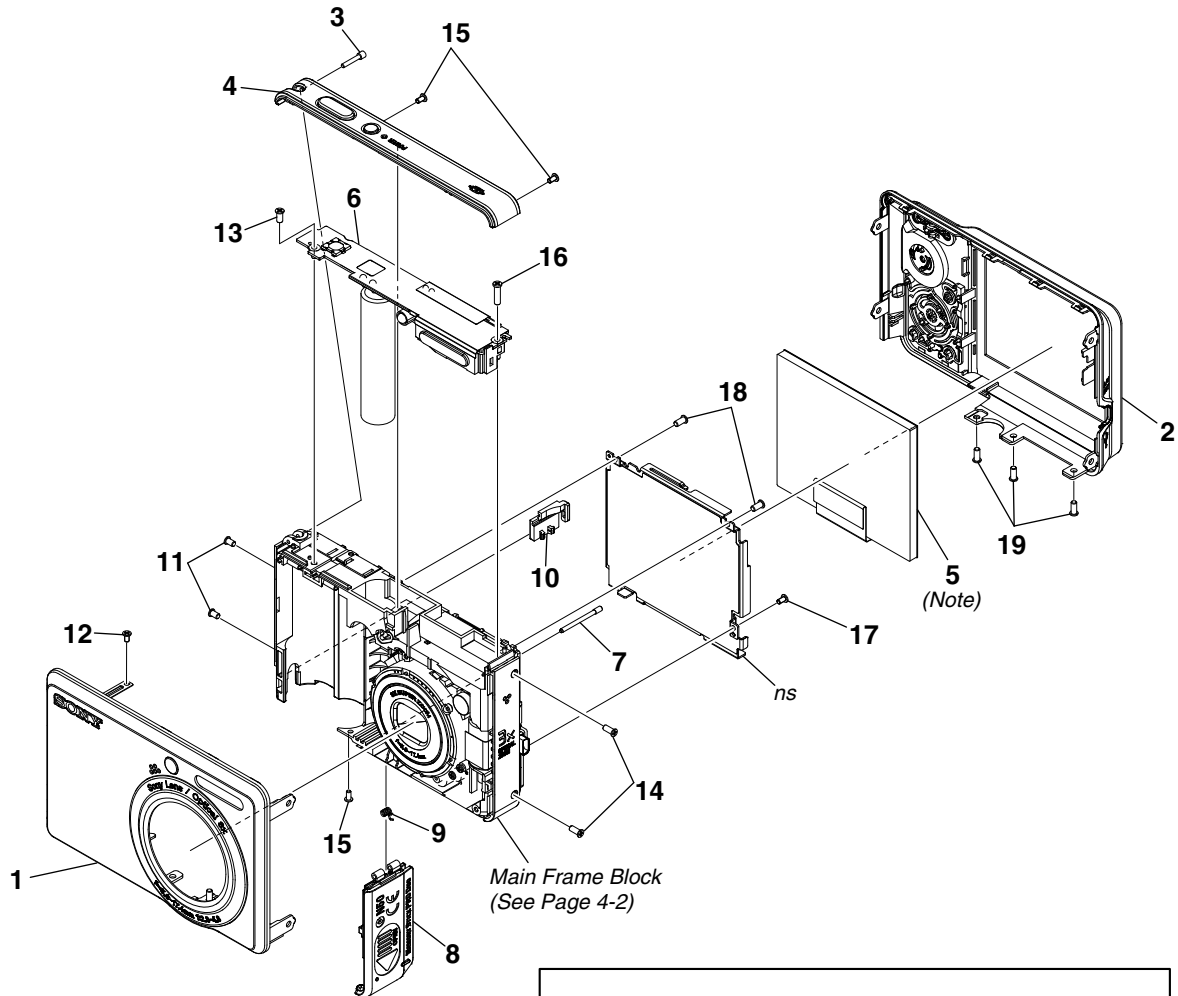
Note : The adjustment is not required after replacing the LCD

• Refer to cover for mark ⚠.

Ref. No.	Part No.	Description
1	X-2188-411-1	CABINET (FRONT) ASSY
2	X-2188-412-1	CABINET (REAR) ASSY
3	3-286-696-01	SHAFT, STRAP
4	3-286-697-01	BLOCK, RL
5	3-286-698-01	LCD
⚠ 6	A-1444-049-A	ST BLOCK ASSY
7	3-286-700-01	SHAFT, BT LID
8	3-286-701-01	LID, BT
9	3-286-702-01	SPRING, BT LID
10	3-286-703-01	LID, JACK

Ref. No.	Part No.	Description
11	3-287-023-11	SCREW M1.7 X 2.7
12	3-287-026-01	SCREW TP1.4 X 2.5
13	3-287-028-01	SCREW TP1.7 X 3.5
14	3-287-027-01	SCREW TP1.7 X 4
15	3-287-025-01	SCREW TP1.4 X 3
16	3-287-032-01	SCREW TP1.7 X 6.5
17	3-296-920-01	SCREW TP1.4 X 3.5
18	3-296-921-01	SCREW TP1.4 X 4
19	3-299-366-01	SCREW TP1.7 X 3.5

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4. REPAIR PARTS LIST

4-1-2. MAIN FRAME BLOCK

ns: not supplied

104

ns
(Note 1)

104

102

102

103

ns

ns
(Note 1)

101

105
(Note 2)
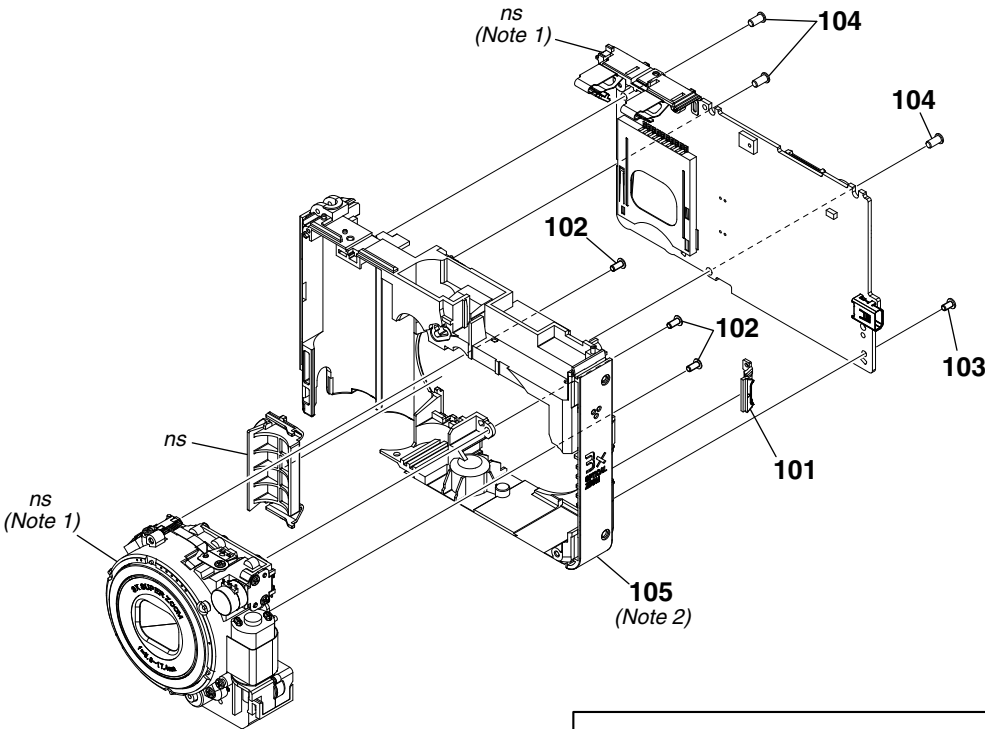
Note 1 : In case of the lens block assy or main board failure,
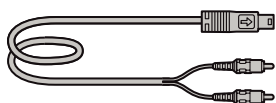contact your local Sony service Headquarter for
the measures.

Note 2 : When separate lens block assy and main board for
main frame replacement, assemble original lens block
assy and main board back after repaire.

Ref. No.	Part No.	Description
101	3-286-699-01	SUPPORT (JACK)
102	3-287-024-01	SCREW TP1.4 X 3
103	3-287-026-01	SCREW TP1.4 X 2.5
104	3-287-028-01	SCREW TP1.7 X 3.5
105	3-286-704-01	FRAME, MAIN

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4. REPAIR PARTS LIST

4-2.   ACCESSORIES

Checking supplied accessories.

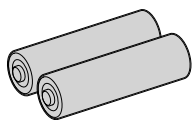Note 1: This item is supplied with the unit as an accessory, but is not prepared as a service part.

A/V cable
3-196-980-01
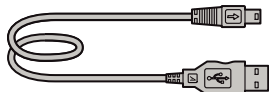
USB cable
3-196-981-01

Wrist strap
2-050-981-01

LR6 (size AA) Alkaline Battery
(Note 1)

Instruction Manual
3-281-198-11   (ENGLISH) (CND, AEP, UK, E, AUS, HK, JE)
3-281-198-21   (FRENCH, ITALIAN) (CND, AEP)
3-281-198-31   (SPANISH, PORTUGUESE) (AEP, E, JE)
3-281-198-41   (GERMAN, DUTCH) (AEP)
3-281-198-51   (TRADITIONAL CHINESE, SIMPLIFIED CHINESE) (E, HK, JE)
3-281-198-61   (RUSSIAN, UKRAINIAN) (AEP)
3-281-198-71   (ARABIC, PERSIAN) (E)
3-281-198-81   (KOREAN) (KR, JE)
3-281-198-91   (POLISH, CZECH) (AEP)
3-281-199-11   (HUNGARIAN, SLOVAK) (AEP)
3-281-199-21   (SWEDISH, FINNISH) (AEP)
3-281-199-31   (NORWEGIAN, DANISH)(AEP)
3-281-199-41   (THAI, MALAYSIAN) (E)
3-281-199-51   (TURKISH, GREEK) (AEP)
3-281-199-61   (ENGLISH, SPANISH) (US)
3-281-199-71   (SIMPLIFIED CHINESE) (CH)

Cyber-shot Handbook(PDF)

The CD-ROM supplied contains all of language version of
the Instruction Manual in pdf (Cyber-shot Handbook.pdf) for printing.

• The printed matter is not supplied. If required,
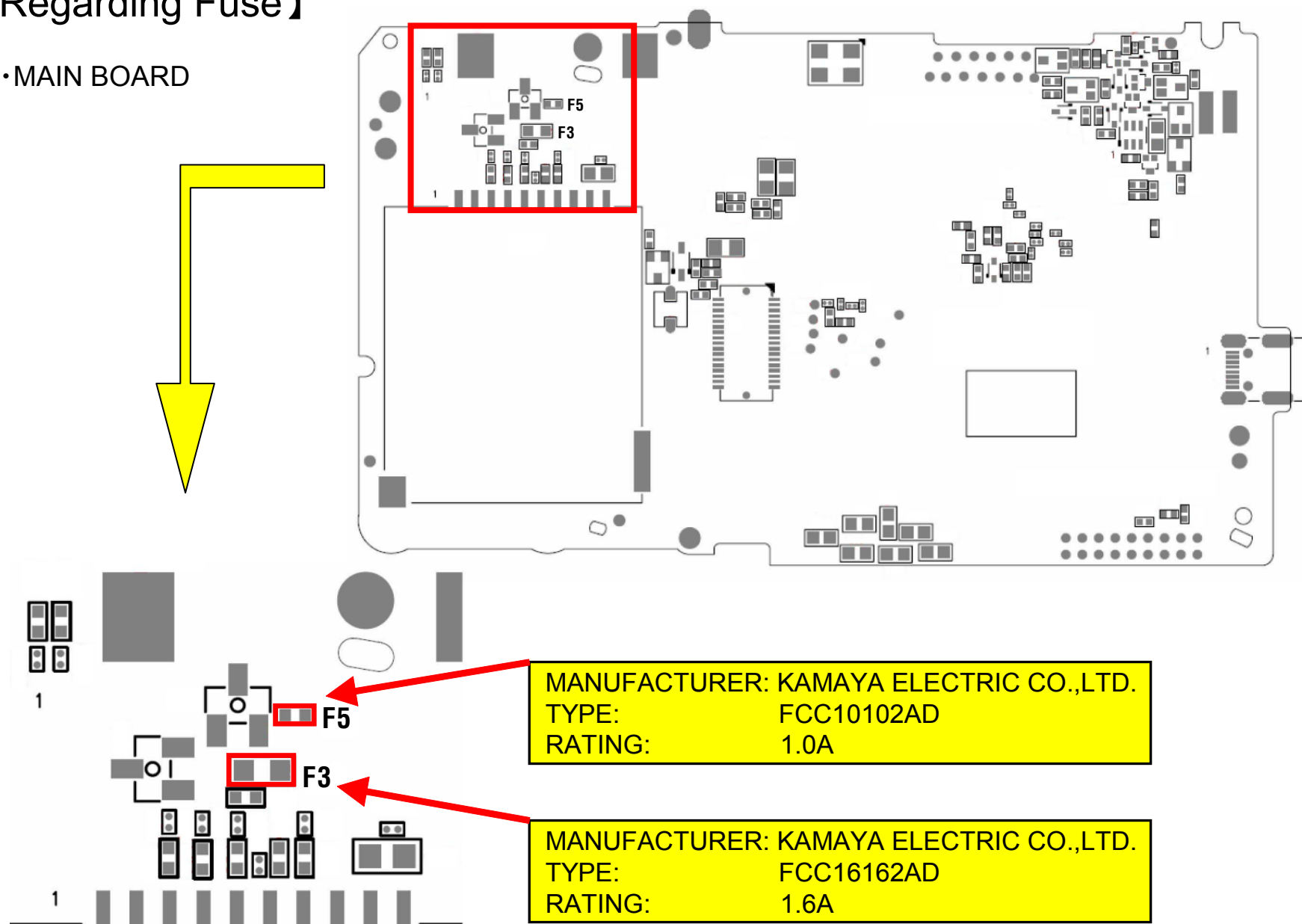 please order it with the part number below.

* 3-281-190-11   (ENGLISH)   * 3-281-191-51   (POLISH)
* 3-281-190-21   (FRENCH)   * 3-281-191-61   (CZECH)
* 3-281-190-31   (ITALIAN)   * 3-281-191-71   (HUNGARIAN)
* 3-281-190-41   (SPANISH)   * 3-281-191-81   (SLOVAK)
* 3-281-190-51   (PORTUGUESE)   * 3-281-191-91   (SWEDISH)
* 3-281-190-61   (GERMAN)   * 3-281-192-11   (FINNISH)
* 3-281-190-71   (DUTCH)   * 3-281-192-21   (NORWEGIAN)
* 3-281-190-81   (TRADITIONAL CHINESE)   * 3-281-192-31   (DANISH)
* 3-281-190-91   (SIMPLIFIED CHINESE)   * 3-281-192-41   (THAI)
* 3-281-191-11   (RUSSIAN)   * 3-281-192-51   (MALAYSIAN)
* 3-281-191-21   (ARABIC)   * 3-281-192-61   (TURKISH)
* 3-281-191-31   (PERSIAN)   * 3-281-192-71   (GREEK)
* 3-281-191-41   (KOREAN)   * 3-281-192-81   (UKRAINIAN)

CD-ROM
(Cyber-shot application software/
"Cyber-shot Handbook"/
"Cyber-shot Step-up Guide")
*3-281-189-01

NOTE:
• Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
• Abbreviation
  AUS : Australian model
  CH   : Chinese model
  CND : Canadian model
  HK   : Hong Kong model
  JE   : Tourist model
  KR   : Korea model

DSC-S730

Regarding Fuse

MAIN BOARD

F5

F3

| MANUFACTURER: KAMAYA ELECTRIC CO.,LTD. |
| TYPE: FCC10102AD |
| RATING: 1.0A |

| MANUFACTURER: KAMAYA ELECTRIC CO.,LTD. |
| TYPE: FCC16162AD |
| RATING: 1.6A |

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Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2007.11	Official Release	—	—

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