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FUJIFILM X-PRO1 SERVICE MANUAL

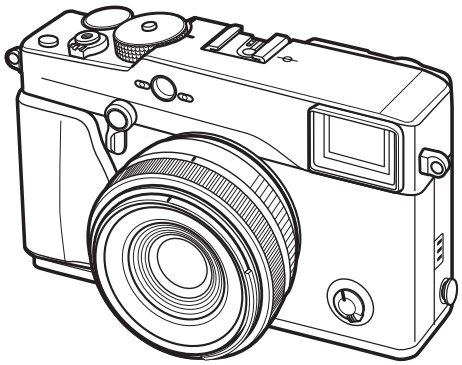


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FUJIFILM

DIGITAL CAMERA



X-Pro1

SERVICE MANUAL

US/AS/E1/EE/EG/EU/RU/CH/JP-model

⚠CAUTION

- BECAUSE THIS PRODUCTIS RoHS LEAD-FREE COMPLIANT, USE THE DESIGNATED AFTER-SELES PARTS AND THE DESIGNATED LEAD-FREE SOLDER WHEN PERFORMING REPAIRS. (Refer to page 3)

⚠WARNING

- THE COMPONENTS IDENTIFIED WITH THE MARK "⚠" ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR SAFETY.
- PLEASE REPLACE ONLY WITH THE COMPONENTS SPECIFIED ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST.
- IF YOU USE PARTS NOT SPECIFIED, IT MAY RESULT IN A FIRE AND AN ELECTRICAL SHOCK.

FUJIFILM Corporation

Ref. No.: ZM00984-109

Revised on 17 Oct 2013

SAFETY CHECK-OUT

After correcting the original problem, perform the following safety check before return the product to the customer.

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splasher 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, though 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. Make leakage - current measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

7.



RISK OF FIRE-
REPLACE FUSE
AS MARKED

2.5A 125V/250V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 2.5 AMPERES 125V/250V FUSE.

ATTENTION: AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME, TYPE 2.5 AMPERES, 125/250 VOLTS.

8.



WARNING!

HIGH VOLTAGE

WARNING:
TO REDUCE THE ELECTRIC SHOCK, BE CAREFUL TO TOUCH THE PARTS.

RoHS lead-free compliance

With the exception of parts and materials expressly excluded from the RoHS directive, all the internal connections and component parts and materials used in this product are lead-free compliant under the European RoHS directive (*1). Use the designated after-sales parts and the designated lead-free solder when performing repairs.

*1: Definition of lead-free

A lead content ratio of 0.1 wt% or less in the applicable locations (solder, terminals, electronic components, etc.)

<Lead-free soldering>

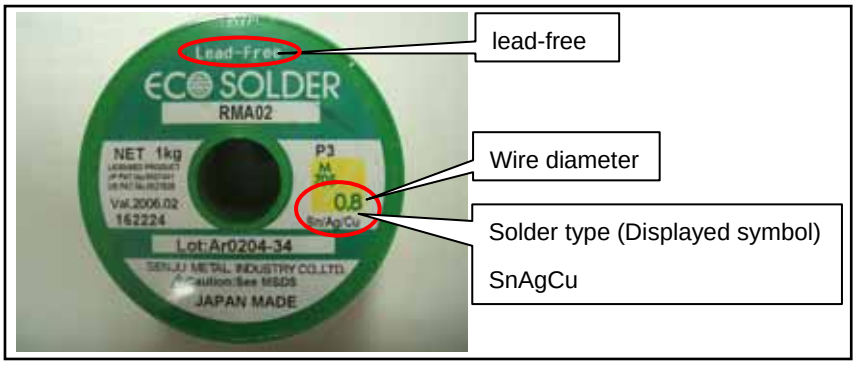
When lead-free solder is used, the solder tends to be less workable than when eutectic solder is used. When carrying out repairs, use a designated lead-free solder, bearing in mind the differing work practices for eutectic solder and lead-free solder.

■ Differences in the soldering work for lead-free and eutectic solder

	Eutectic solder (Sn-Pb)	Lead-free solder (Sn-Ag-Cu)	Remark
Melting point	183°C	220°C	
Soldering iron temperature	283°C	320°C	The bonding temperature that will give the best bond strength.
Wetting	Good	Poor	
Surface	Gloss	Matte	

■ Recommended equipment





■ Soldering iron maintenance

Because of the high soldering iron temperature in lead-free soldering, there is rapid carbonization of the flux adhering to the tip of the soldering iron.

(1) Always cover the tip of the soldering iron with solder when it is not being used.

(2) If the tip is black from carbonization, wipe it gently with a paper towel soaked in alcohol until the solder will wet.

MEMO

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MEMO

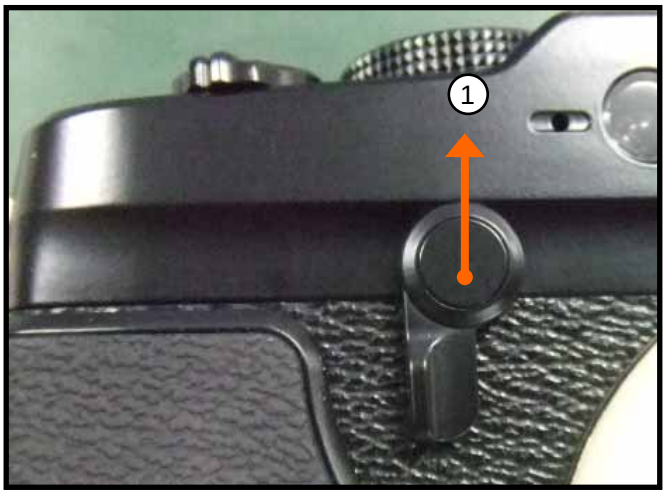
1. Disassembly

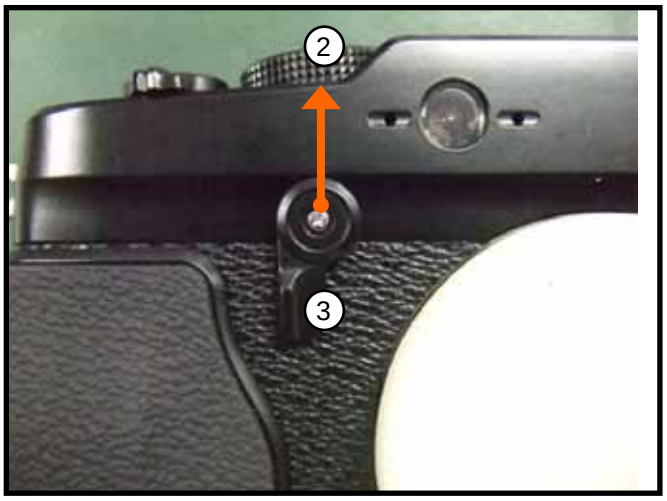
1-1. Removing the CASE

(1) Remove the DECO PLATE LEVER.

(2) Remove the 1 screw. (MS2M 1.4X2.0)

(3) Remove the LEVER FINDER.





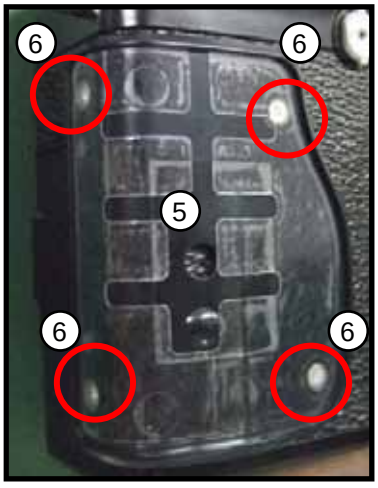
(4) Peel off the GRIP F.

(5) Peel off the TAPE GRIP F.

(6) Remove the 4 screws. (MS2M 1.7X3.5)

(7) Remove the BASE GRIP F.







(8) Peel off the SHEET GRIP R LEFT.

(9) Peel off the SHEET GRIP R RIGHT.

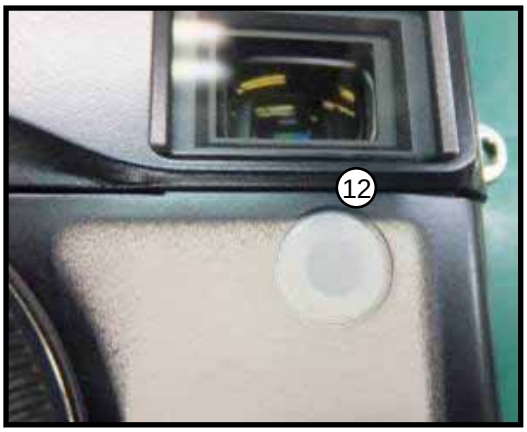
(10) Peel off the SHEET GRIP F RIGHT.

(11) Peel off the SHEET GRIP F LEFT.





(12) Peel off the SHEET FRONT.



[Assembly]

Assemble by performing the disassembly procedure in reverse.

Refer to the sheet sticking procedure.

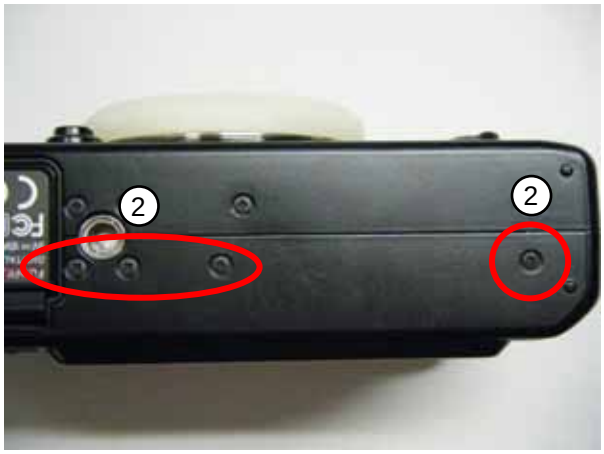
Recycling prohibition of SHEET.

1-2. Removing the CONST REAR

(1) Remove the 1 screw. (N-MSGM 1.7X2.5)

(2) Remove the 4 screws. (N-MSGM 1.7×2.5D)





(3) Remove the 3 screws. (N-MS2M 1.7X3.0)





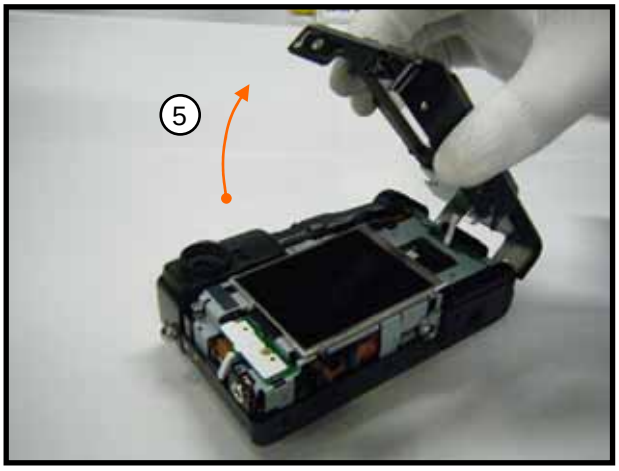
(4) Remove the 2 screws. (N-MSGM 1.7X4.0)

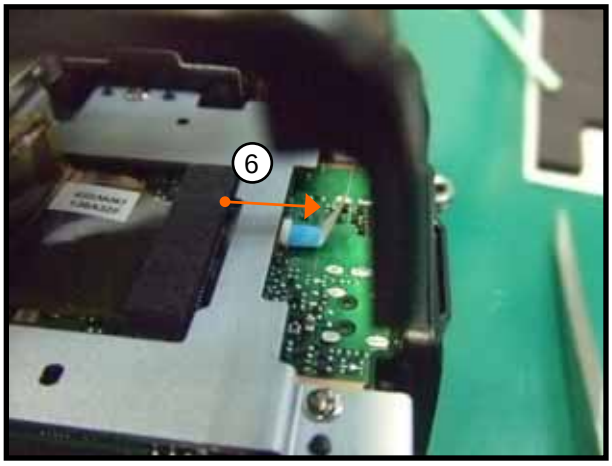




(5) Open the CONST REAR in the direction of the arrow.

(6) Remove the REAR FFC from the MAIN PWB ASSY.

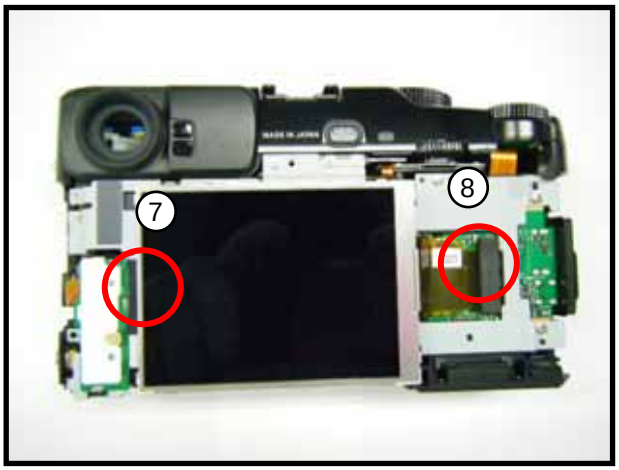


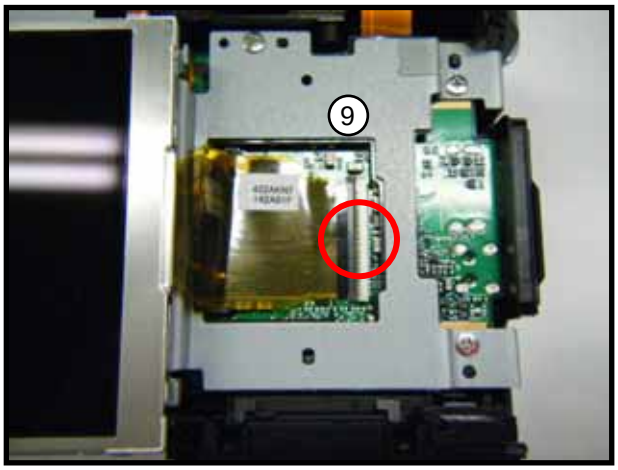


(7) Peel off the ULTAPE.

(8) Peel off the CUSHION CN LCD.

(9) Unlock the connector and remove the LCD FPC.



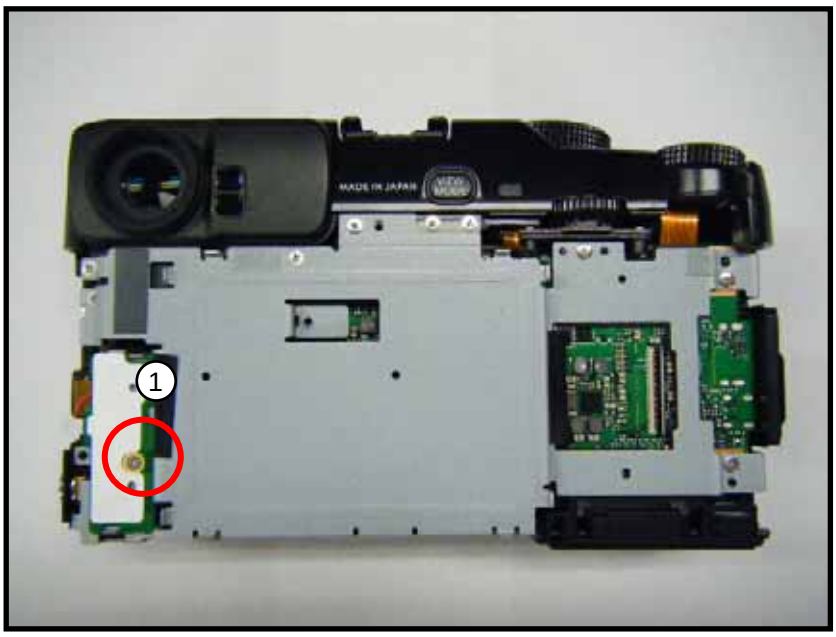


[Assembly]

Assemble by performing the disassembly procedure in reverse.

1-3. Removing the CONST FRAME MAIN

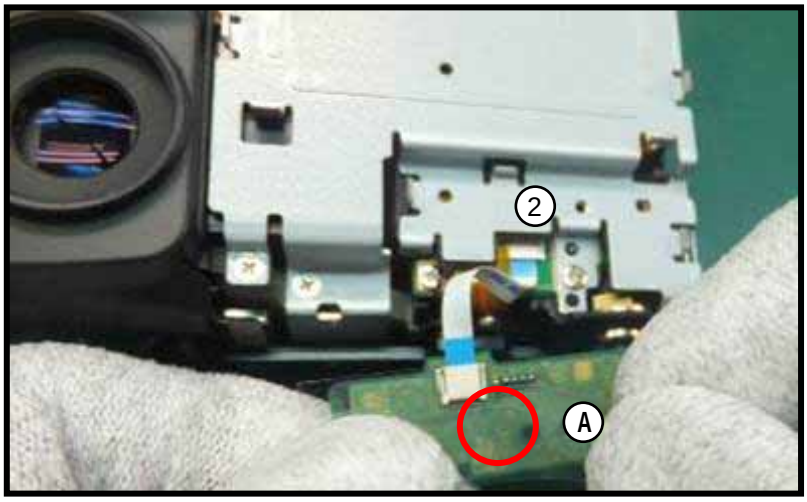
(1) Remove the 1 screw. (MSGM 1.7×2.5)

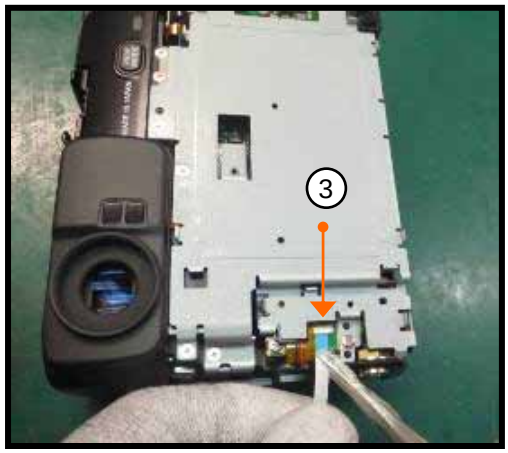


(2) Remove the CONST PWB SIDE.

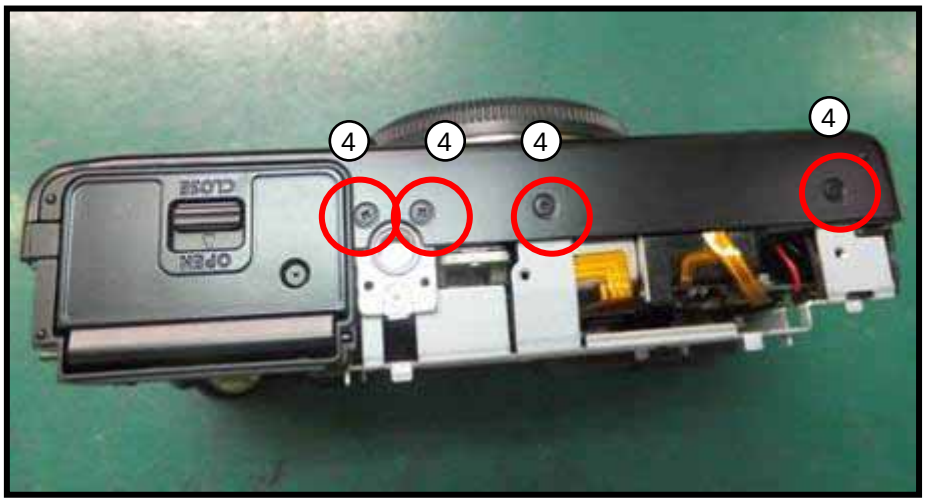
※Double-sided tape is applied at point A.

(3) Remove the CONST PWB SIDE FPC in the direction of the arrow.

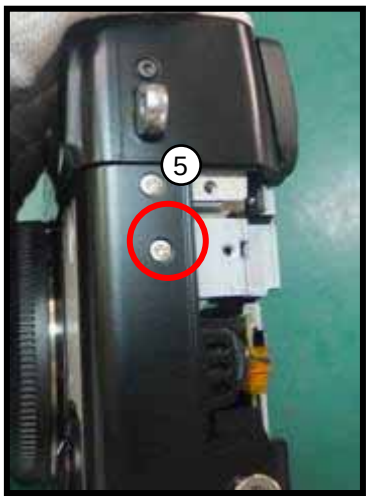




(4) Remove the 4 screws. (N-MSGM 1.7×2.5D)

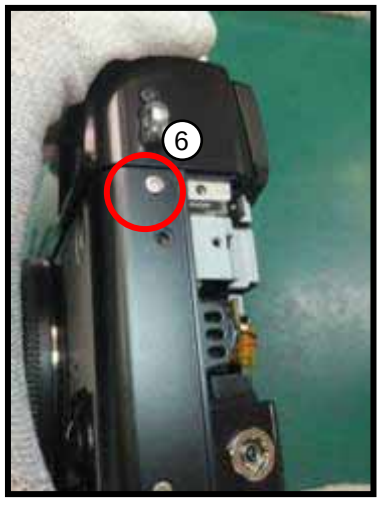


(5) Remove the 1 screw. (N-MS2M 1.7×3.0)

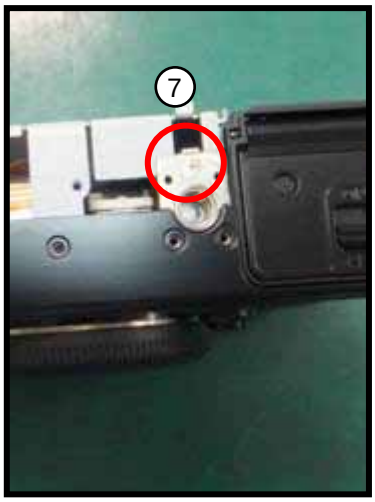


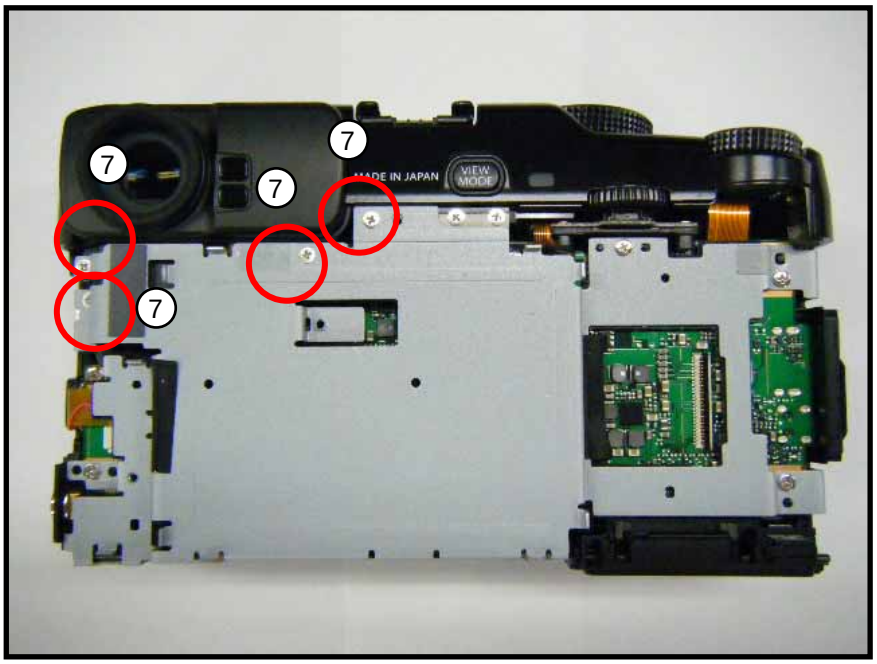
(6) Remove the 2 screws. (N-MSGM 1.7×4.0)



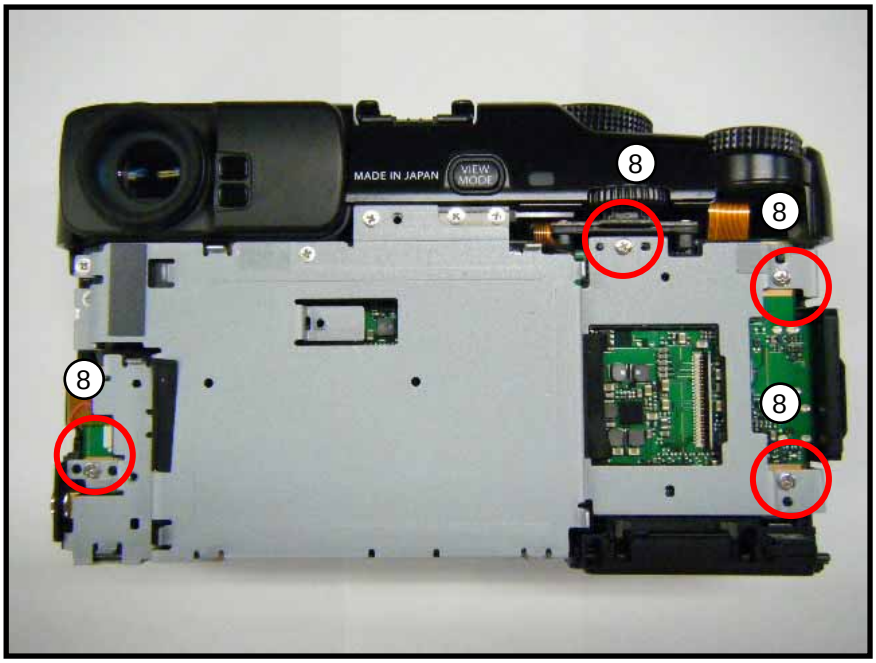


(7) Remove the 5 screws. (MSGM 1.7×2.5)





(8) Remove the 4 screws. (BT2M 1.7×3.5)

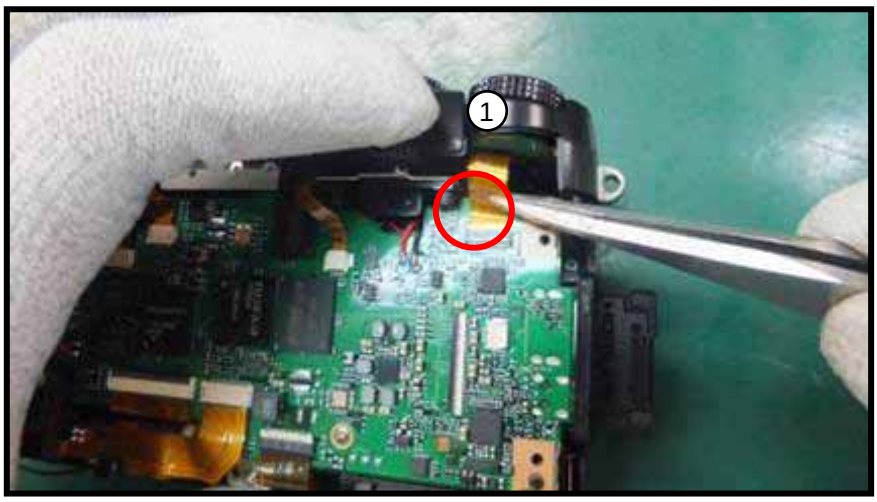


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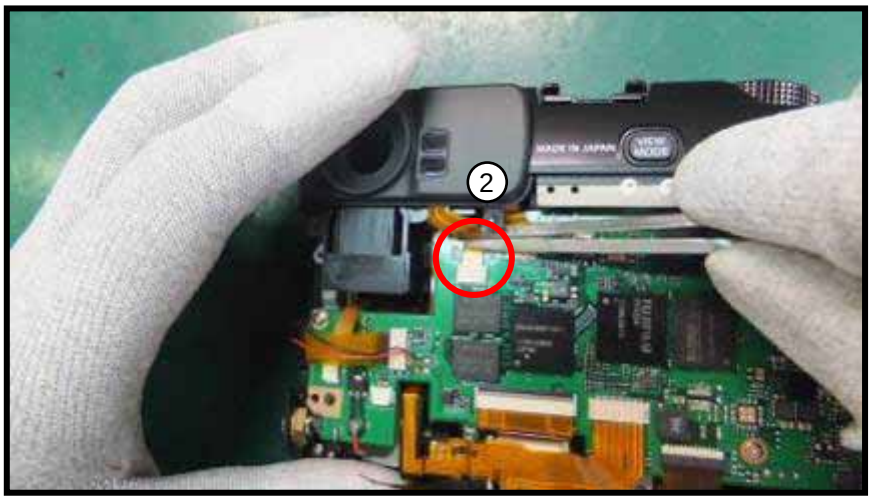
Assemble by performing the disassembly procedure in reverse.

1-4. Removing the CONST TOP

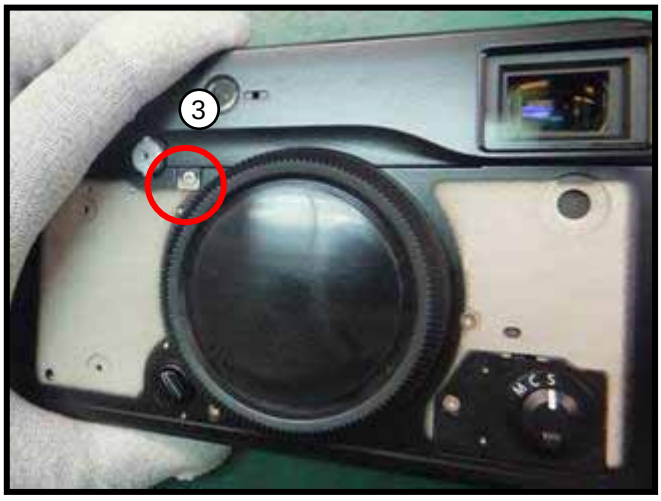
(1) Unlock the connector and remove the CONST TOP FPC.



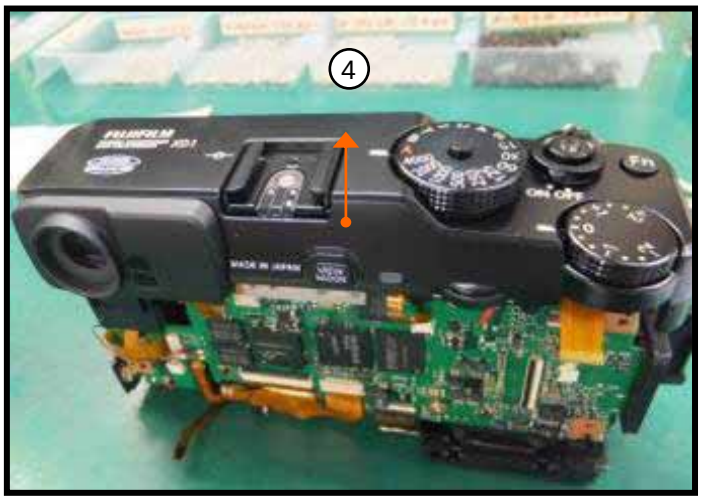
(2) Remove the EYE SENSOR FPC.



(3) Remove the 1 screws. (N-MSGM 1.7×2.5)



(4) Remove CONST TOP in the direction of the arrow.

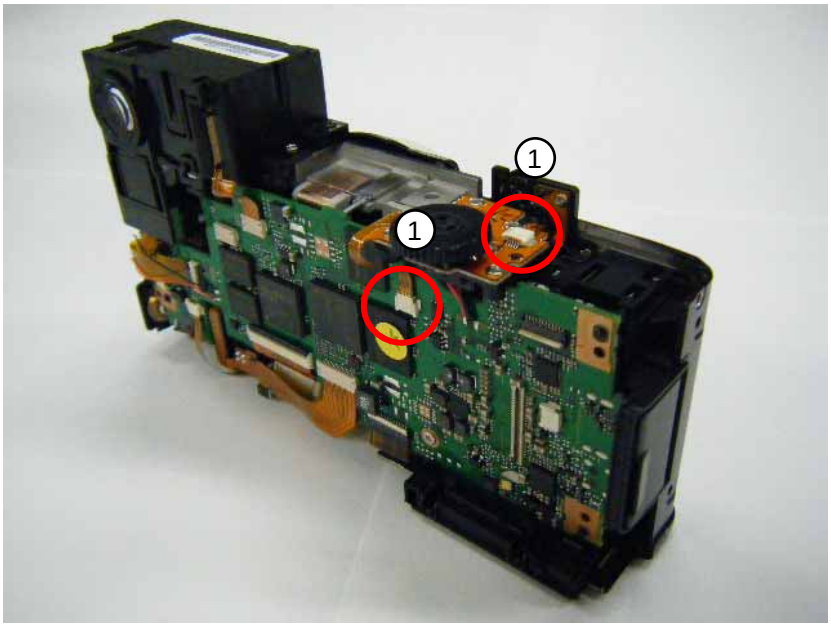


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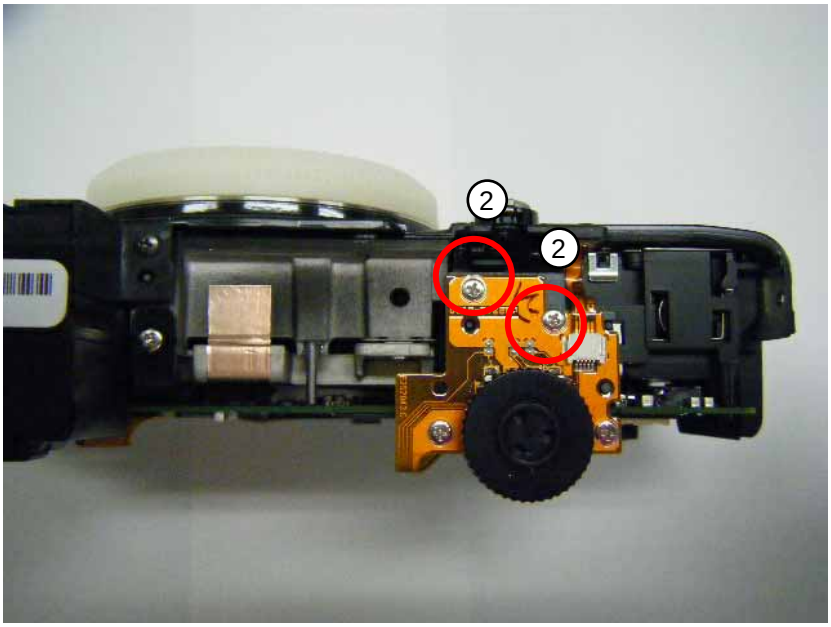
Assemble by performing the disassembly procedure in reverse.

1-5. Removing the CONST FPC COMMAND

(1) Remove the CONST FPC、 COMMAND FPC



(2) Remove the 2 screws. (BT2M 1.7×5.0)

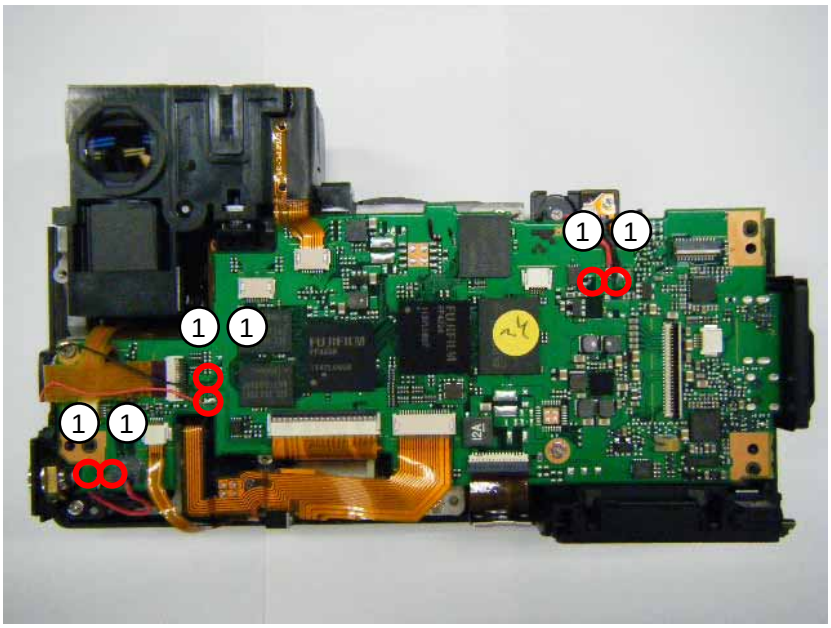


[Assembly]

Assemble by performing the disassembly procedure in reverse.

1-6. Removing the MAINPWB ASSY

(1) Remove the solder in 6 locations.



(2) Remove the FPC AF.

(3) Unlock the connector and remove the FINDER DRIVE FPC.

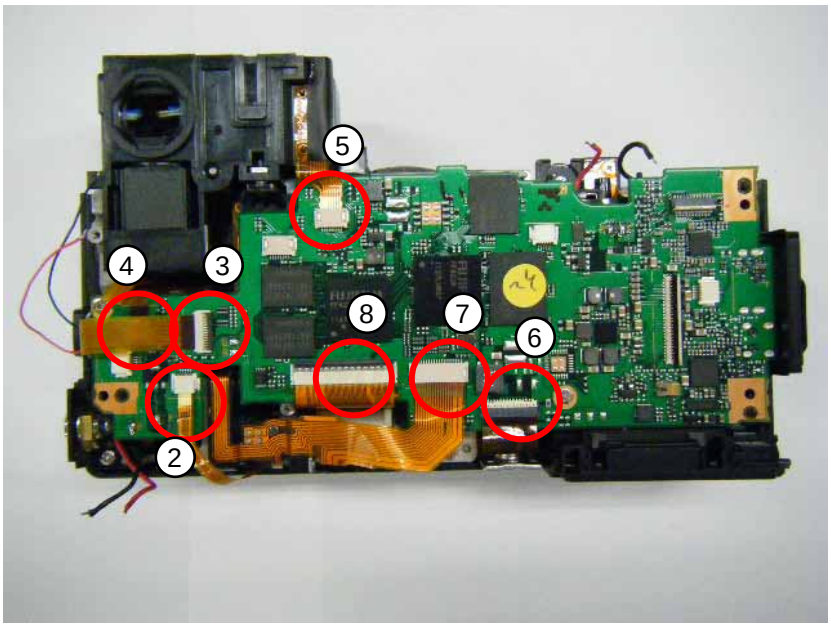
(4) Remove the FINDER BL FPC.

(5) Remove the FINDER SHATTER FPC.

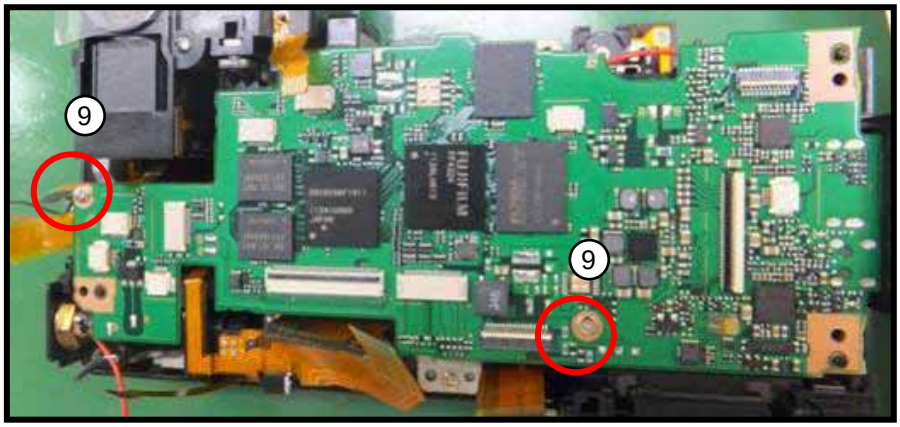
(6) Unlock the connector and remove the MOUNT FPC.

(7) Remove the SHATTER FPC.

(8) Unlock the connector and remove the CMOS FPC.

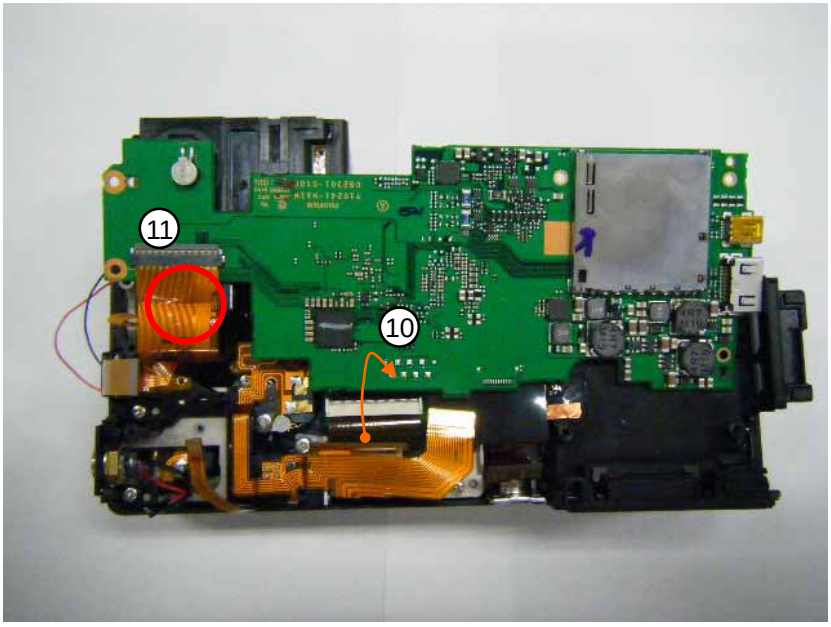


(9) Remove the 2 screws. (BT2M 1.7×3.5)



(10)Lift off theY-10241MAINPWB ASSY in the direction of the arrow.

(11) Remove the EVF FPC.



[Assembly]

Assemble by performing the disassembly procedure in reverse.

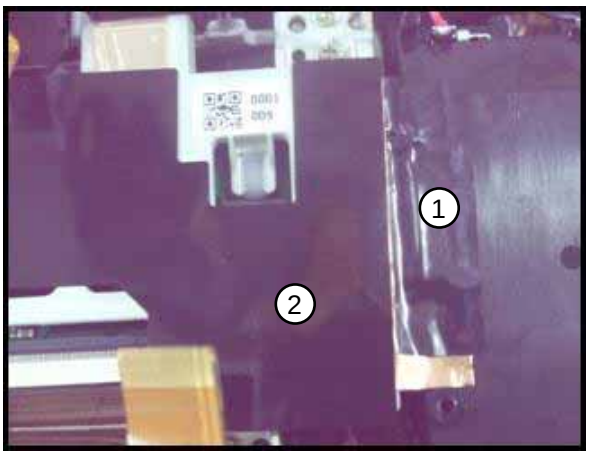
1-7. Removing the UNIT MOUNT

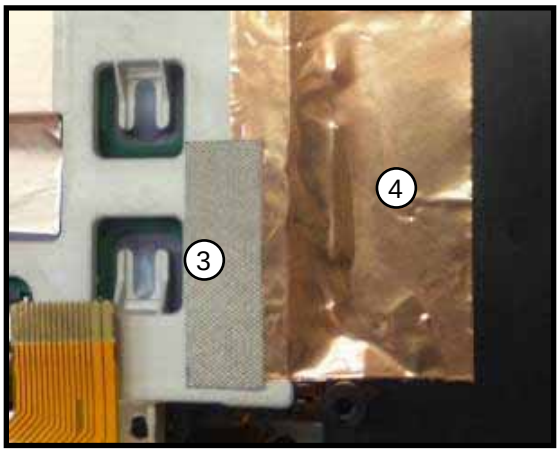
(1) Peel off the ULTAPE.

(2) Peel off the SHEET INSULATE SINK.

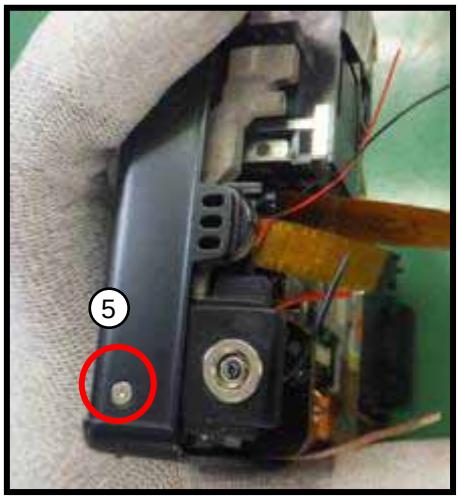
(3) Peel off the SHEET COND SINK.

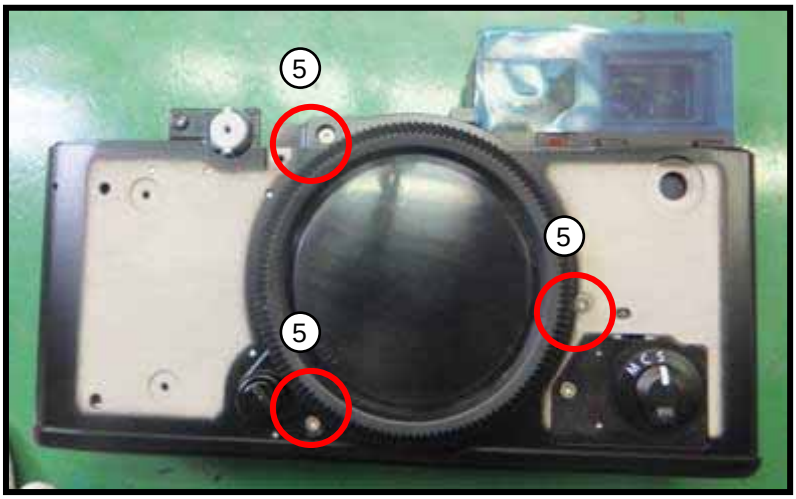
(4) Peel off the SHEET CU SINK.



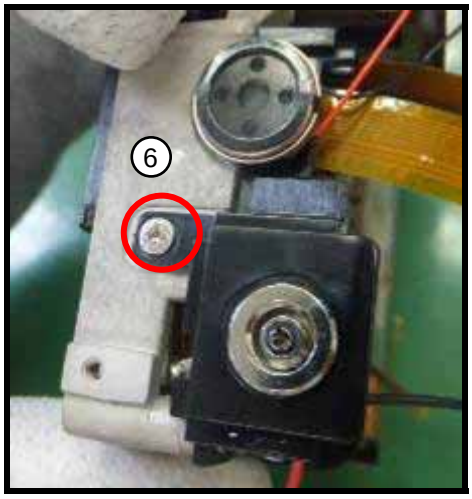


(5) Remove the 4 screws. (N-MSGM 1.7×2.5)

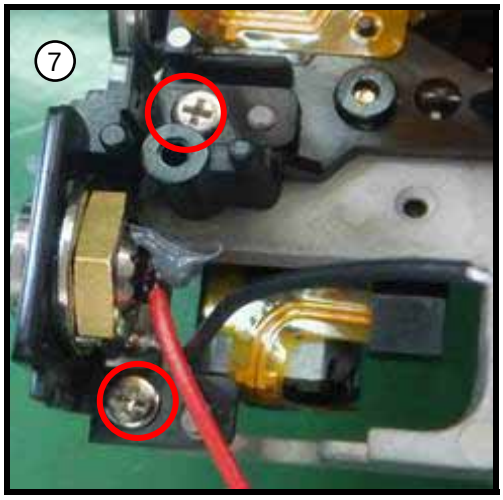




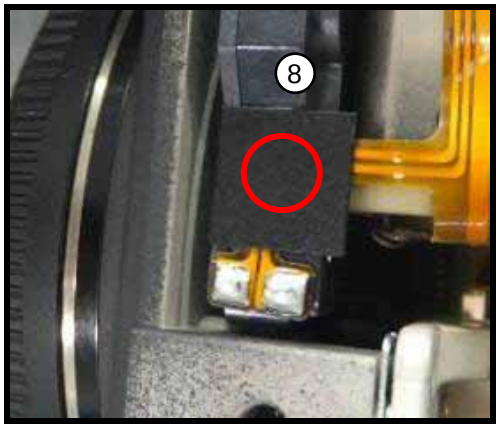
(6) Remove the 1 screw. (MSGM 1.7×2.5)



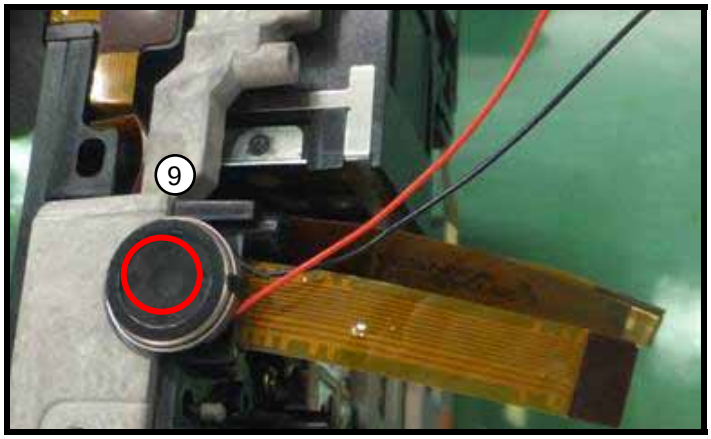
(7) Remove the 2 screws. (MS2M 1.7×4.0)



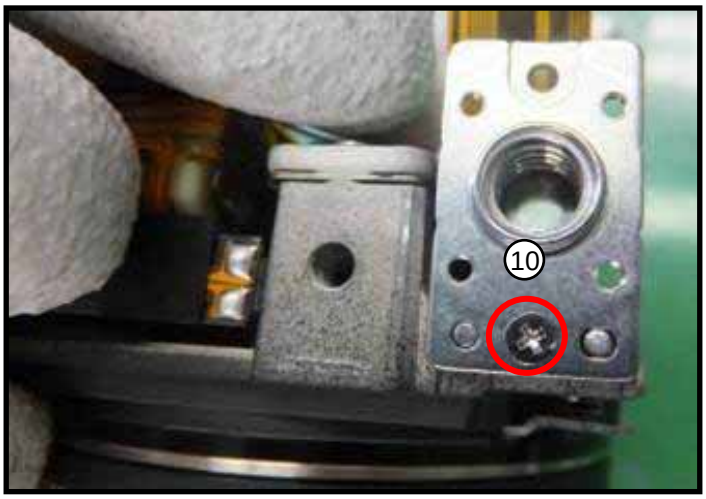
(8) Peel off the SHEET COVER FPS.



(9) Remove the SPEKER.



(10) Remove the 1 screw. (MSGM 1.7×2.5)



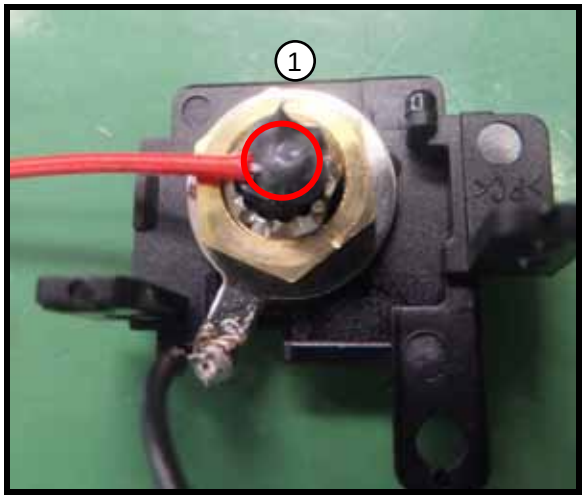
[Assembly]

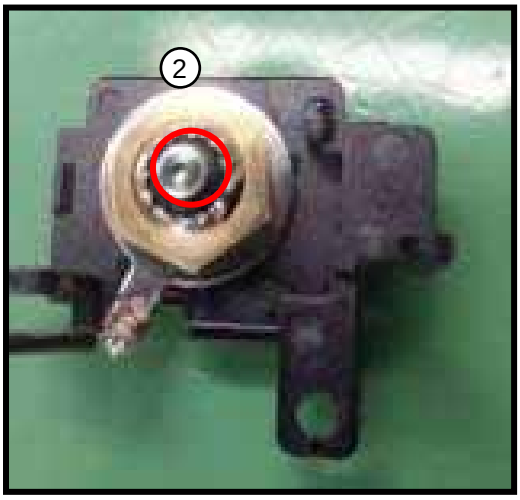
Assemble by performing the disassembly procedure in reverse.

1-8. Removing the HOLDER SYNCHRO

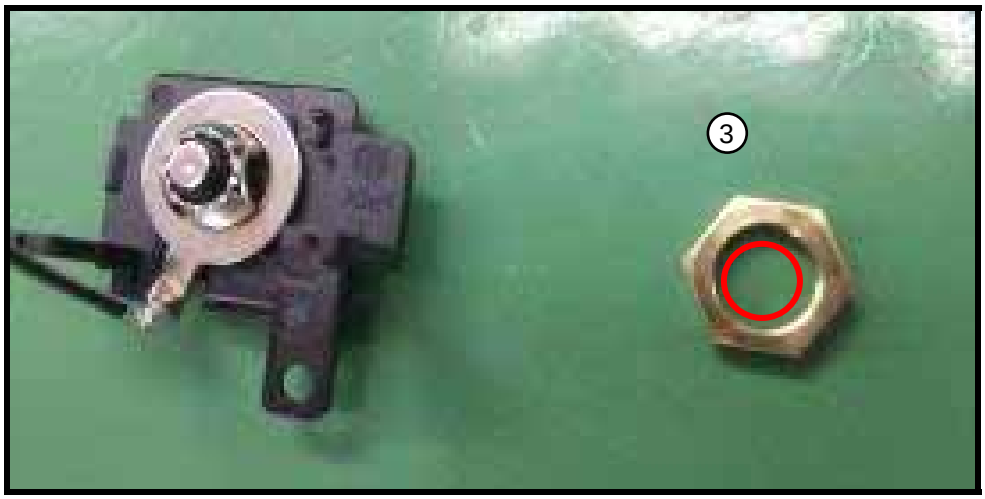
(1) Peel off the BONDO.

(2) Remove the solder in 1 location.

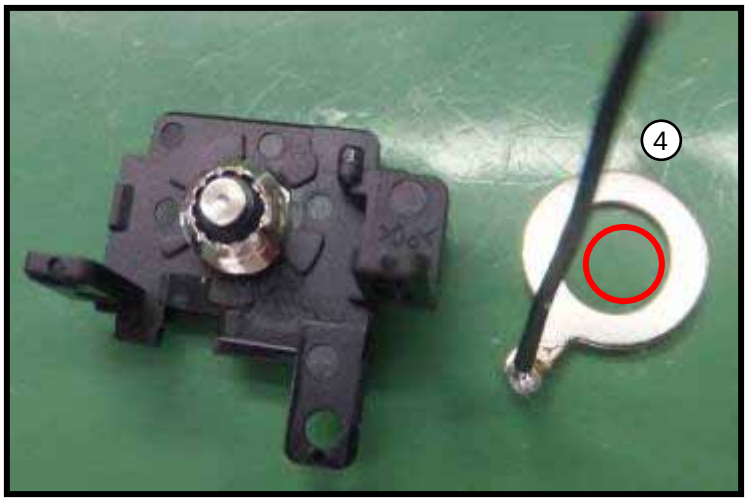




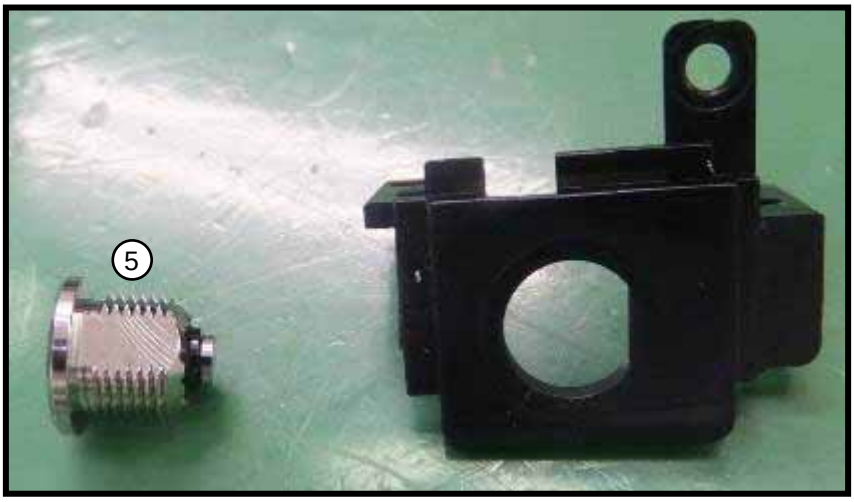
(3) Remove the NUT.



(4) Remove the PLATE SYNCHRO.



(5) Remove the SYNCHRO TERMINAL from the HOLDER SYNCHRO.



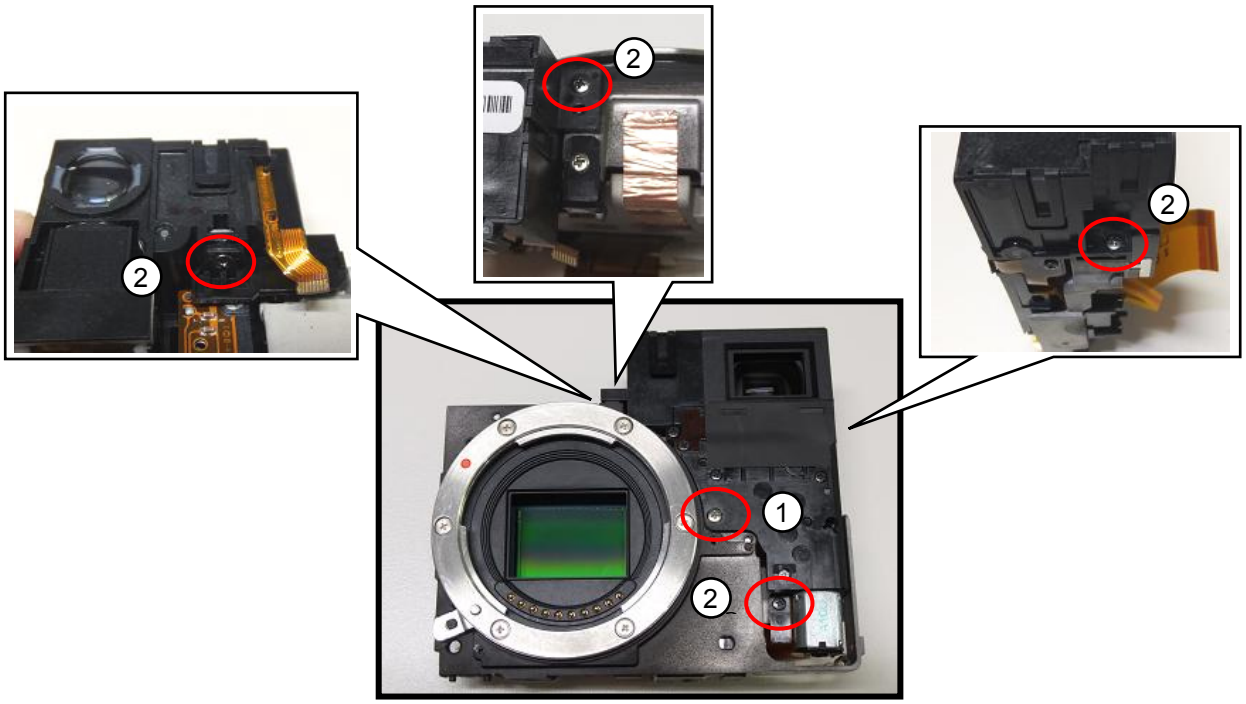
[Assembly]

Assemble by performing the disassembly procedure in reverse.

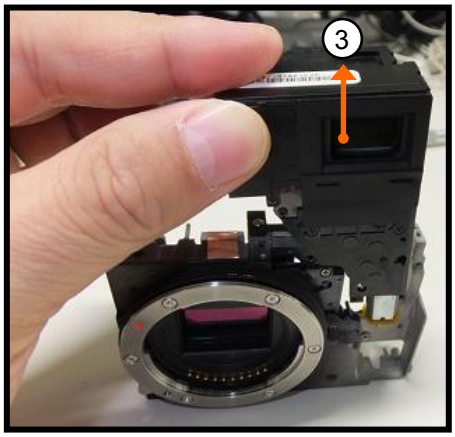
★1-9. Disassembling the UNIT MOUNT

(1) Remove the screw (MS2M1.7X4.0).

(2) Remove the 4 screws (MS2M1.7X5.0B).



(3) Remove the FINDER UNIT in the direction of the arrow.



[Notes]

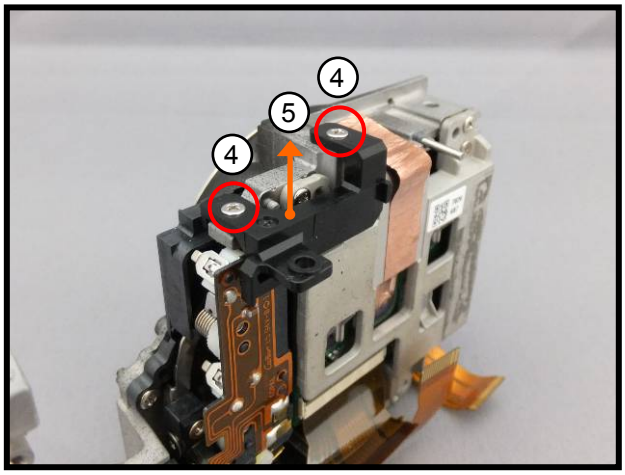
Be careful not to lose the NUT.



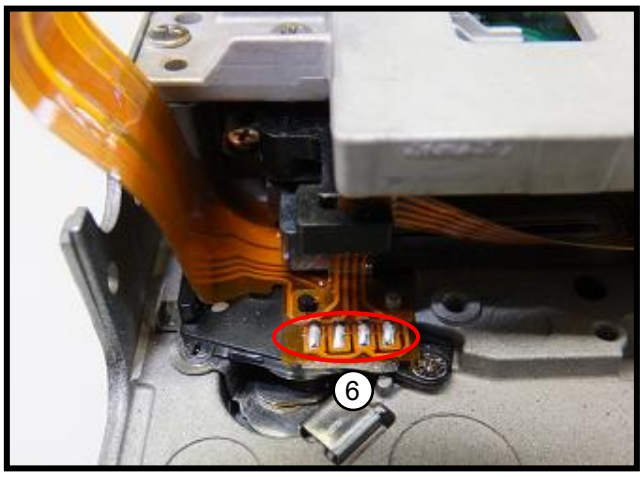
★: Revised

(4) Remove the 2 screws (MS2M1.7X4.0).

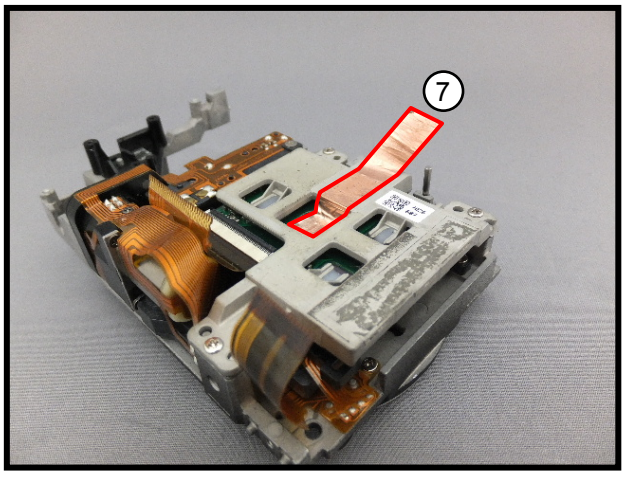
(5) Remove the FINDER BASE in the direction of the arrow.



(6) Remove 4 solders.



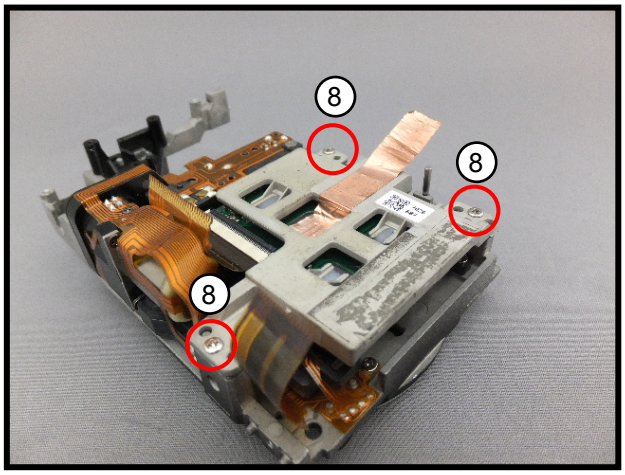
(7) Peel off the SHEET CU.



[Notes on Assembly]

SHEET CU is not reusable.

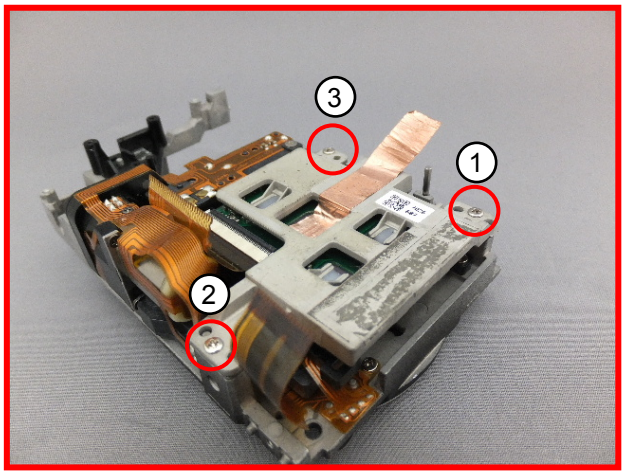
(8) Remove the 3 screws (MS2M1.7X4.0).



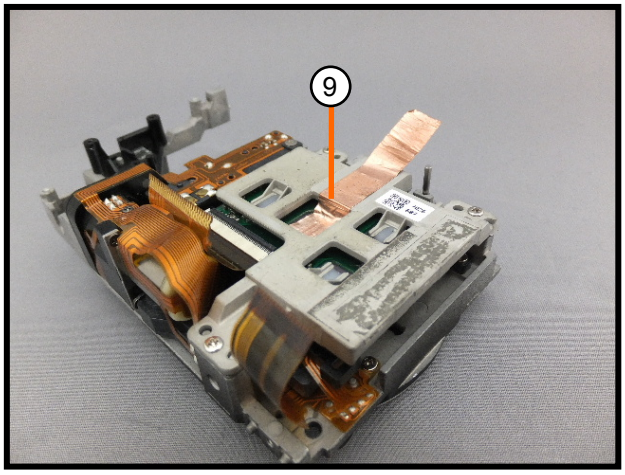
[Tightening torque when assembly]

10N•cm

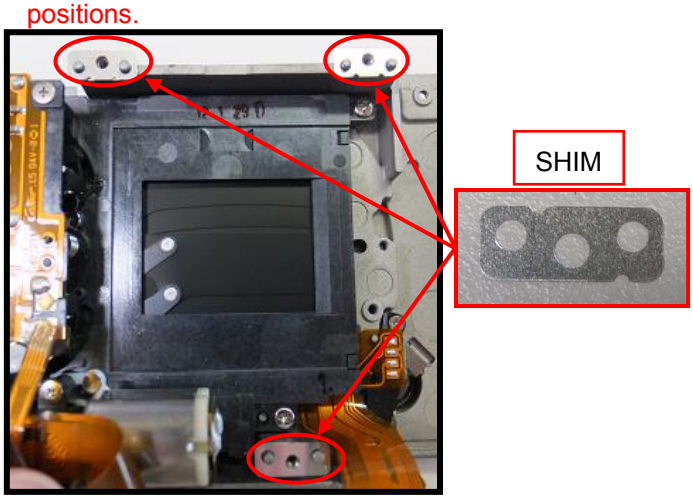
Tight the screws in the order show in the right picture.



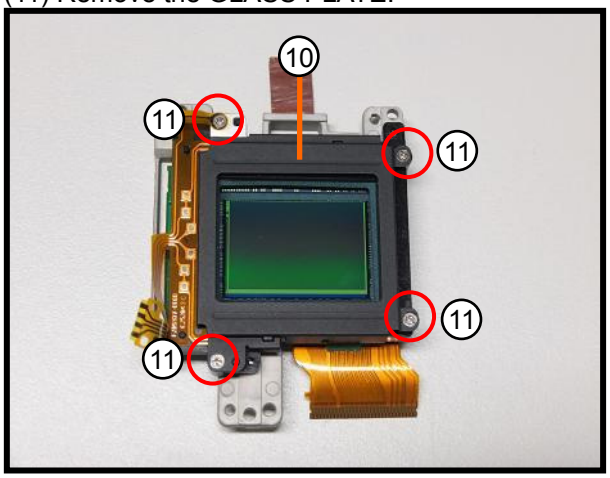
(9) Remove the CMOS UNIT.



[Notes]
- Be careful not to lose the SHIM.
- The thickness and the number of SHIMs vary depending on their positions. Be sure to write down the positions beforehand so that the same SHIMs will always be set to the same positions during assembly as the original positions.

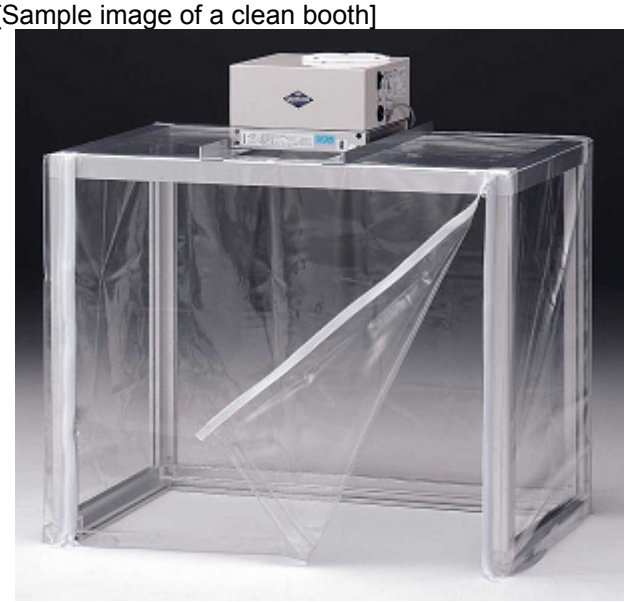


(10) Remove the 4 screws (BT2M1.7X3.5).
(11) Remove the GLASS PLATE.

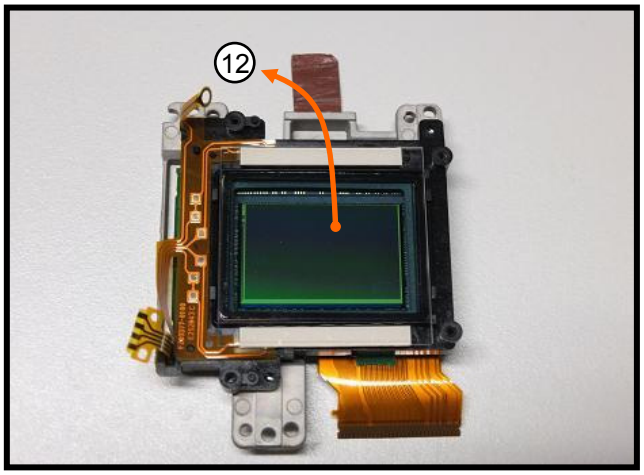


[Notes]
When disassembling the CMOS UNIT, disassemble it in a clean booth.
Compliant with ISO class 3 (0.3μm 100pcs/m^3) or better.
* Must clean up inside of the clean booth first before you start clean up lenses.

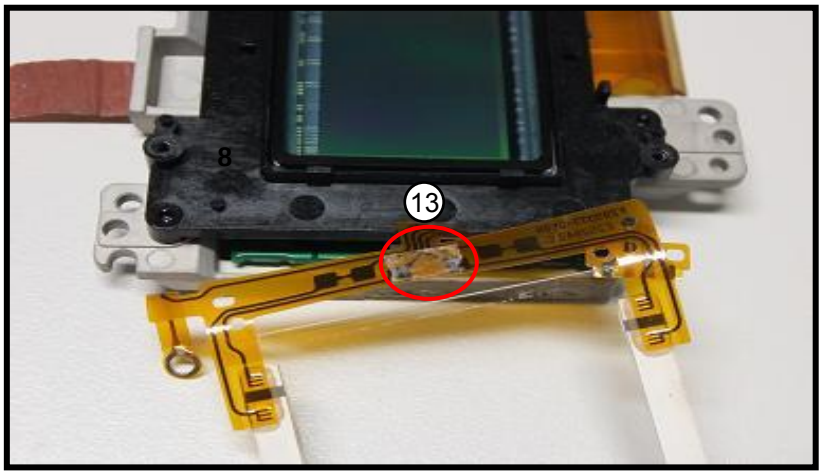
[Sample image of a clean booth]



(12) Raise the DR GLASS UNIT in the direction of the arrow.

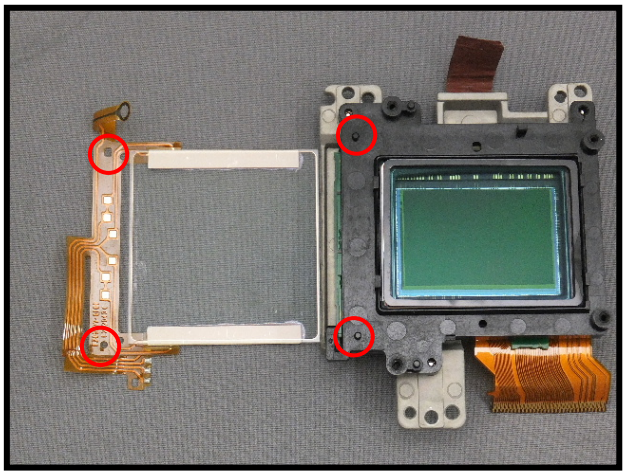


(13) Peel off the TAPE FPC, and remove the DR GLASS UNIT.



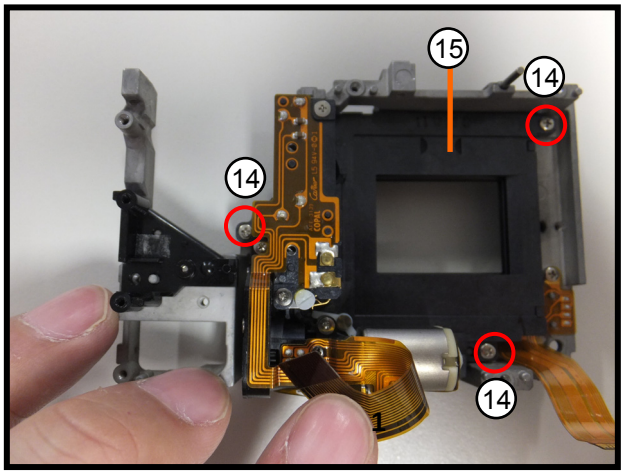
[Notes on Assembly]

- **TAPE FPC is not reusable.**
- Check the bosses to determine the position of the DR GLASS UNIT.



(14) Remove the 3 screws (MS2M1.7X4.0).

(15) Remove the FP SHUTTER.

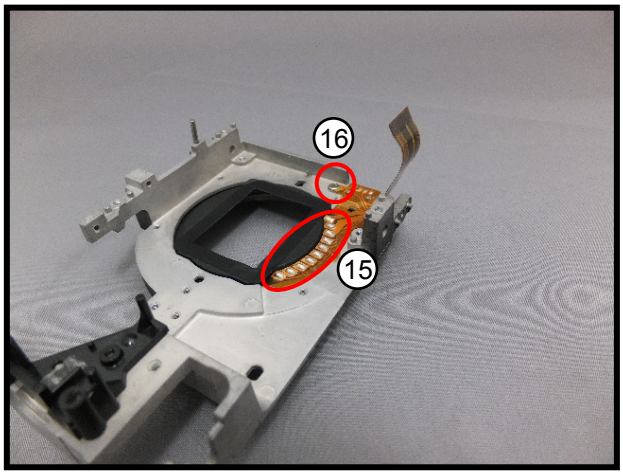


[Tightening torque when assembly]

10N•cm

(15) Remove 10 solders.

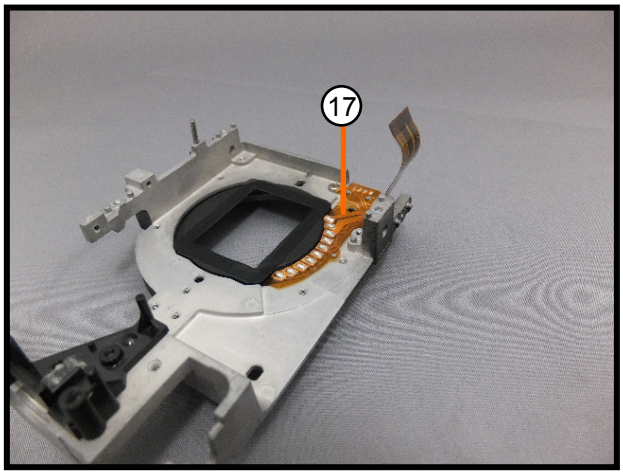
(16) Remove the screw (MS2M1.7X2.0).



[Tightening torque when assembly]

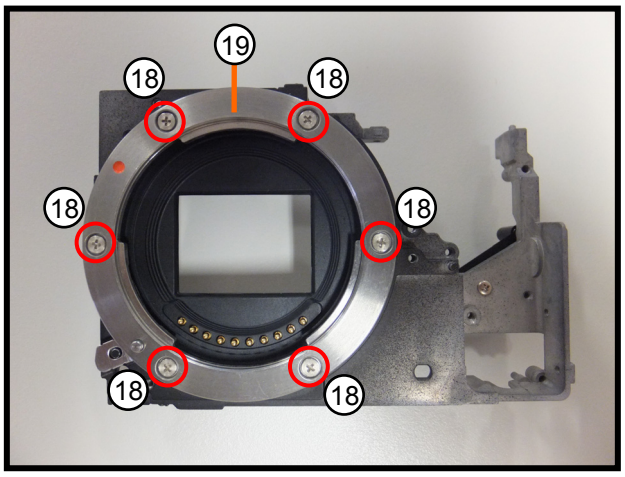
10N•cm

(17) Remove the MOUNT FPC.



(18) Remove the 6 screws (MS7M1.7X6.0).

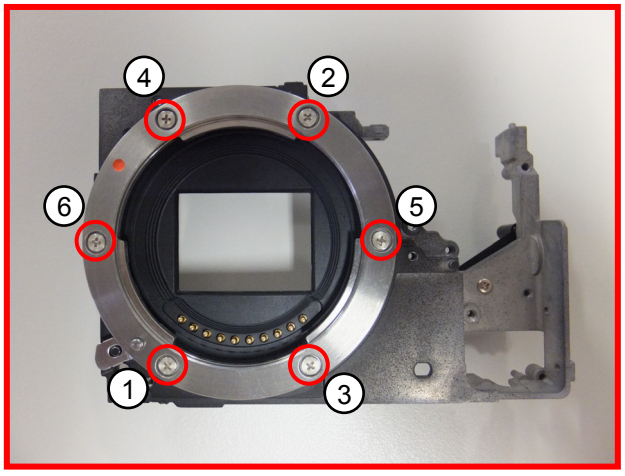
(19) Remove the MOUNT RING.



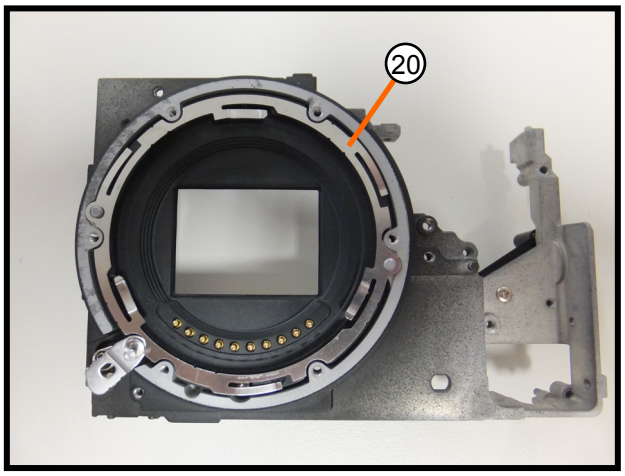
[Tightening torque when assembly]

18N•cm

Tight the screws in the order show in the right picture.



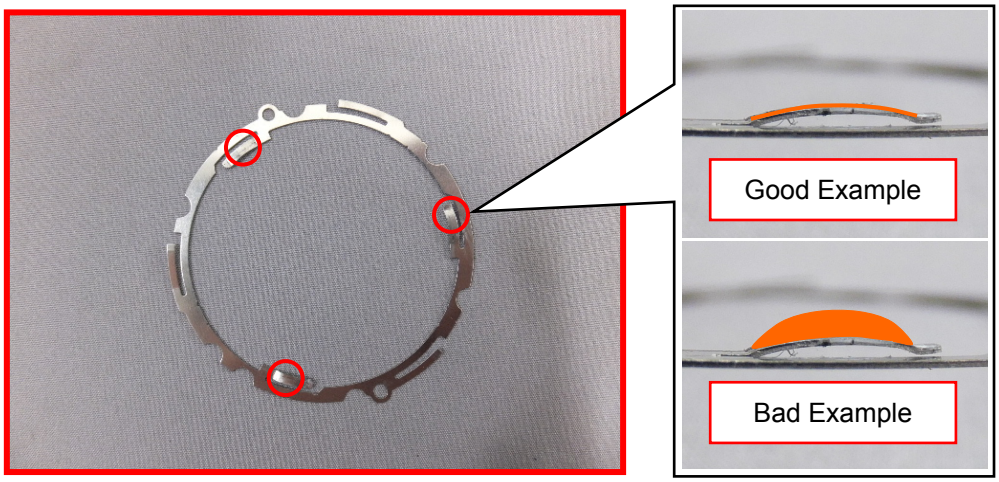
(20) Remove the PSP MOUNT.



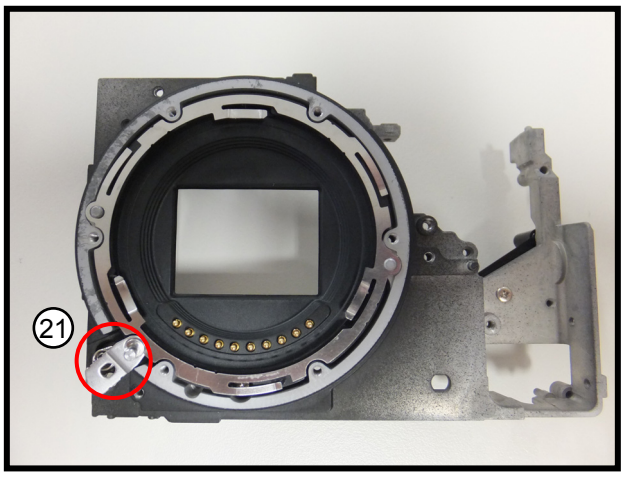
[Notes on Assembly]

Be sure to apply the lubricant to the PSP MOUNT.

Lubricant: ZS00185-100 (HI-LUBE FG-600T)



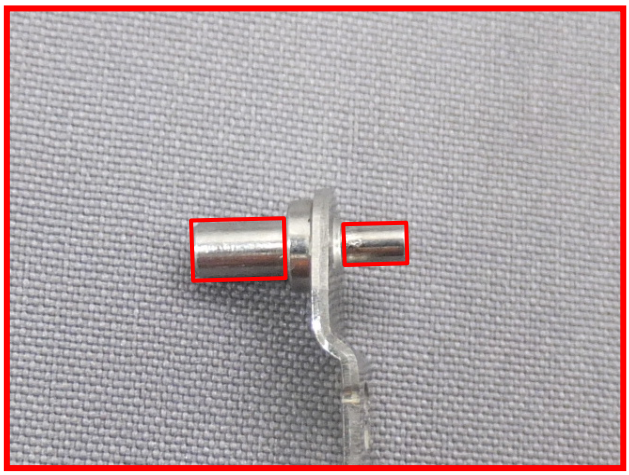
(21) Remove the MOUNT LOCK.



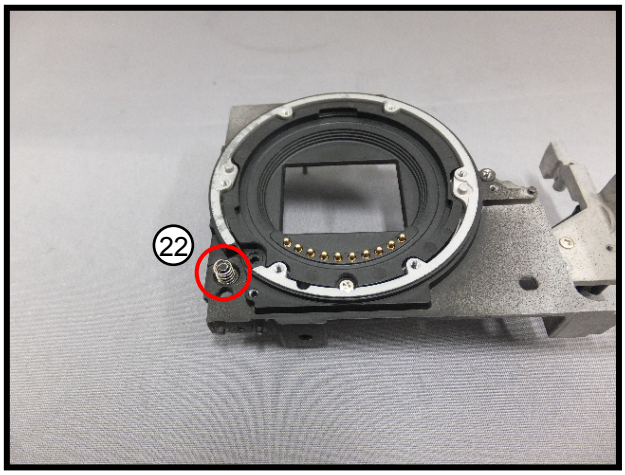
[Notes on Assembly]

Be sure to apply the lubricant to the MOUNT LOCK.

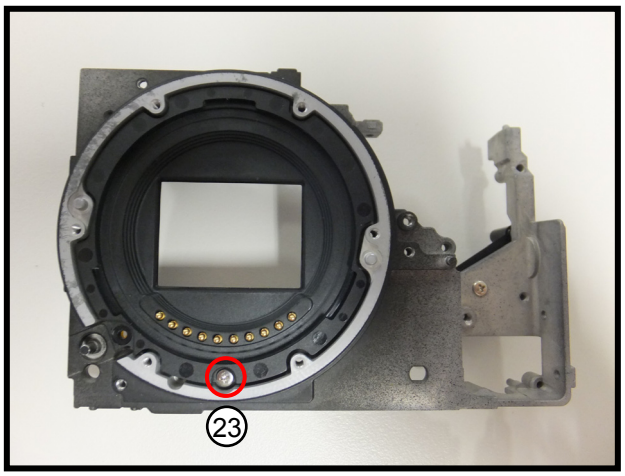
Lubricant: ZS00135-200 (LUBRICANT CFD-409Z)



(22) Remove the CSP MOUNT-LOCK.



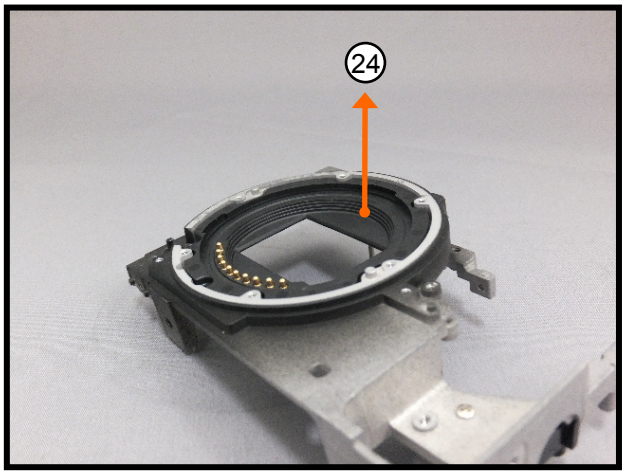
(23) Remove the screw (MS2M1.7X3.0N).



[Tightening torque when assembly]

10N•cm

(24) Remove the HOLDER MOUNT ASSY in the direction of the arrow.



[Precautions when replacing HOLDER MOUNT ASSY]

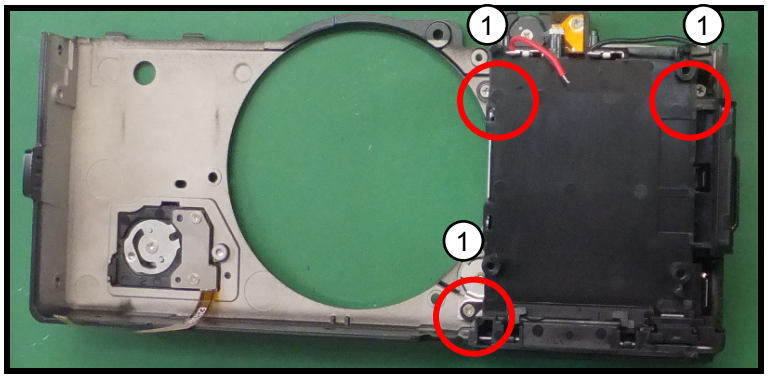
MASK_MOUNT is not reusable.

[Assembly]

Assemble procedure is reverse of the disassembly procedure.

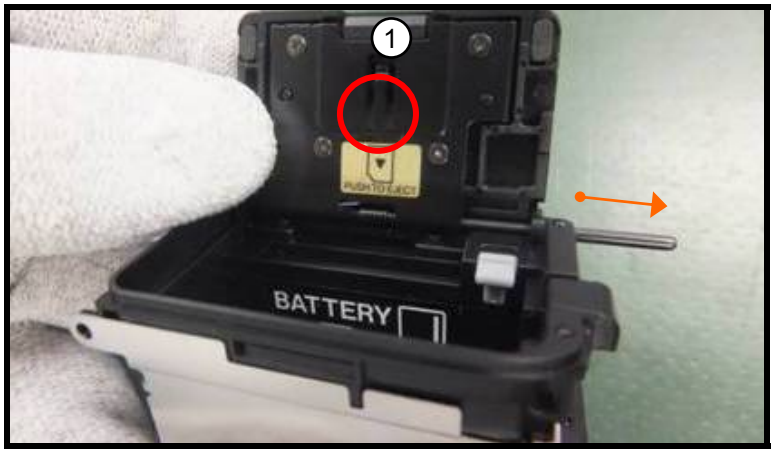
1-10. Removing the CONST ASSY FRONT and CONST BATT, COVER BATTERY

(1) Remove the 3 screws（MSAM 1.4×2.5N）.





(2) Remove the SHAFT in the direction of the arrow and then remove the COVER BATTERY.

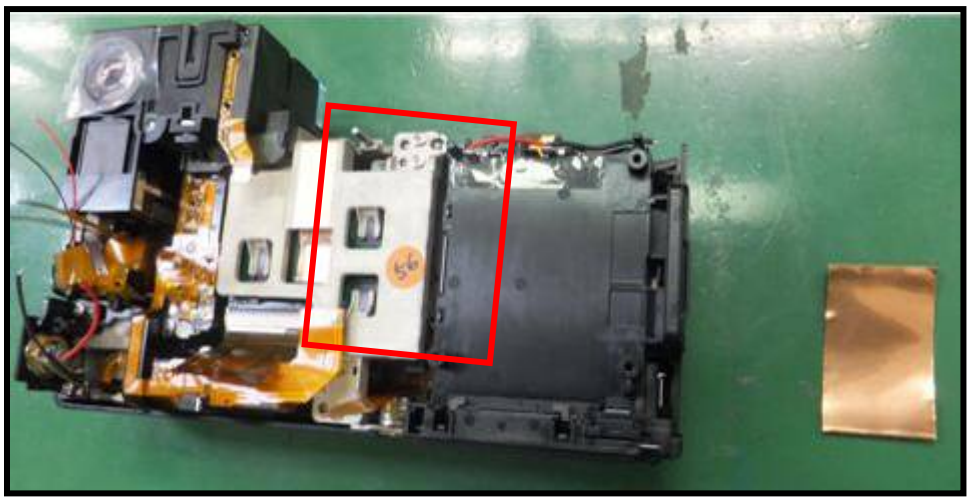


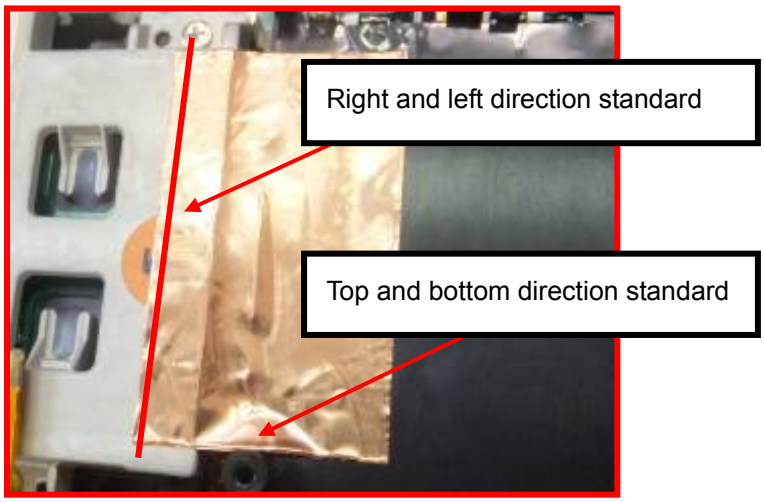
[Assembly]

Assemble by performing the disassembly procedure in reverse.

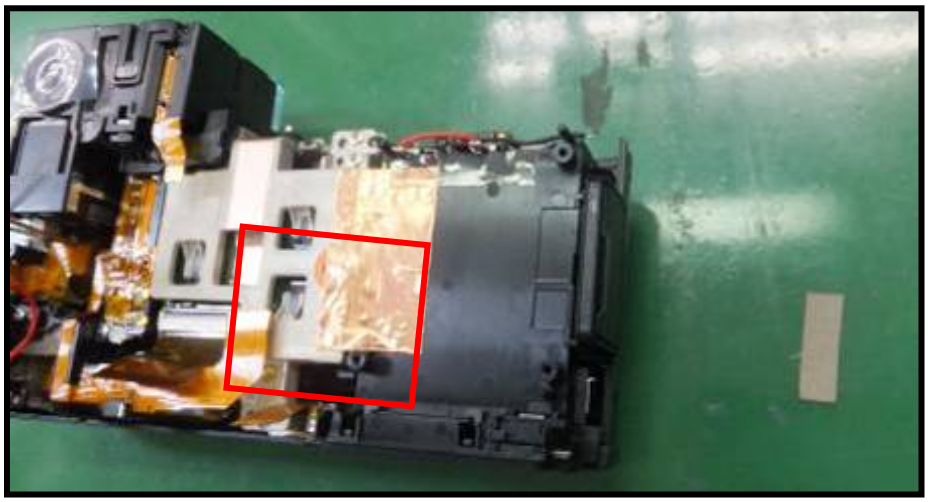
1-11. Attachment locations

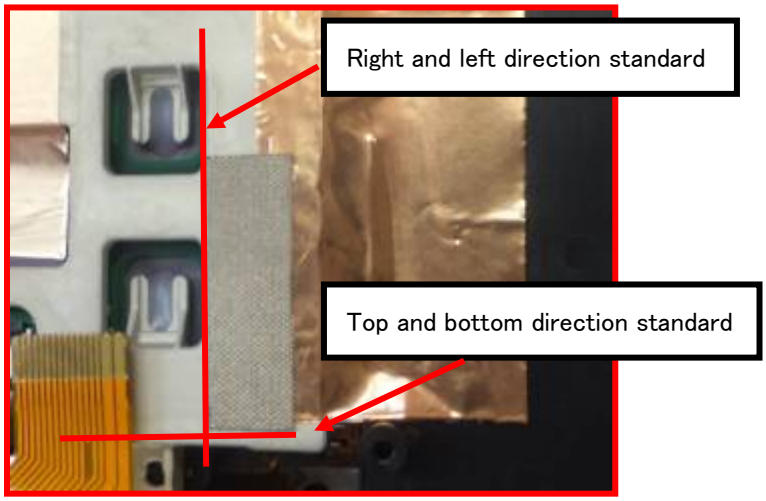
(1) Affix the SHEET CU SINK as shown in the figure.





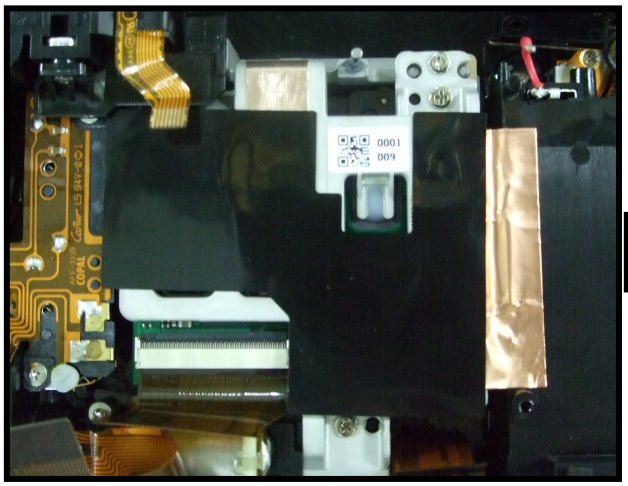
(2) Affix the SHEET COND SINK as shown in the figure.

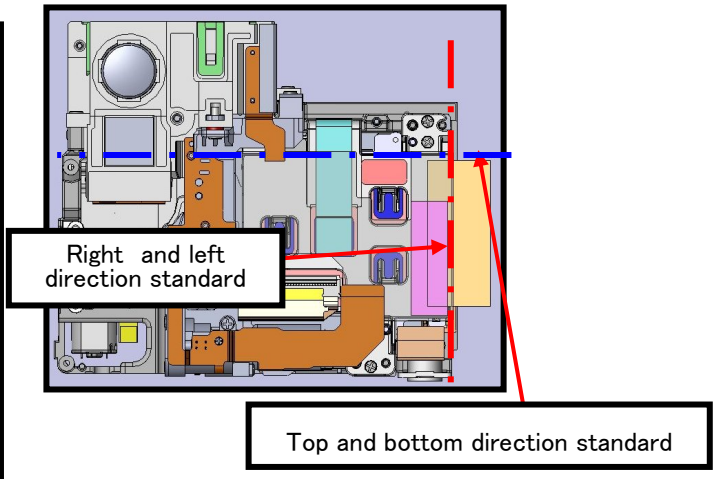




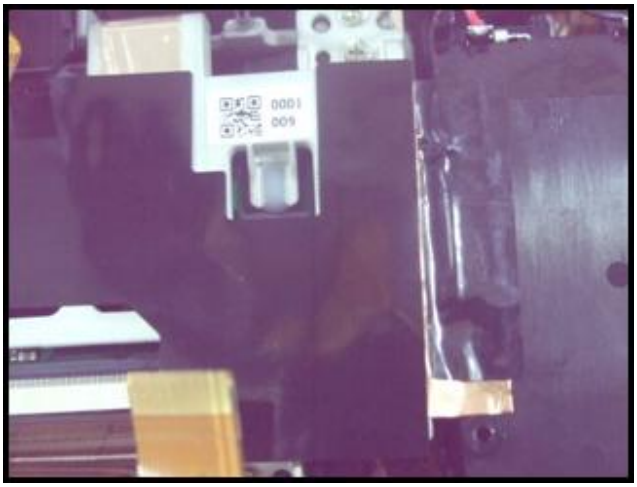
☆

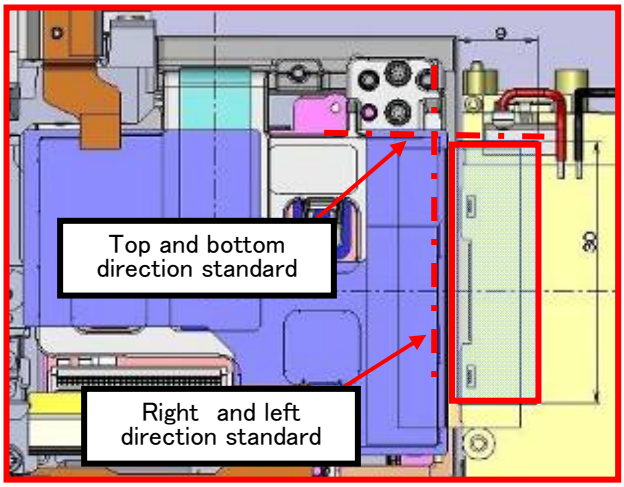
(3) Affix the SHEET INSULATING SINK as shown in the figure.





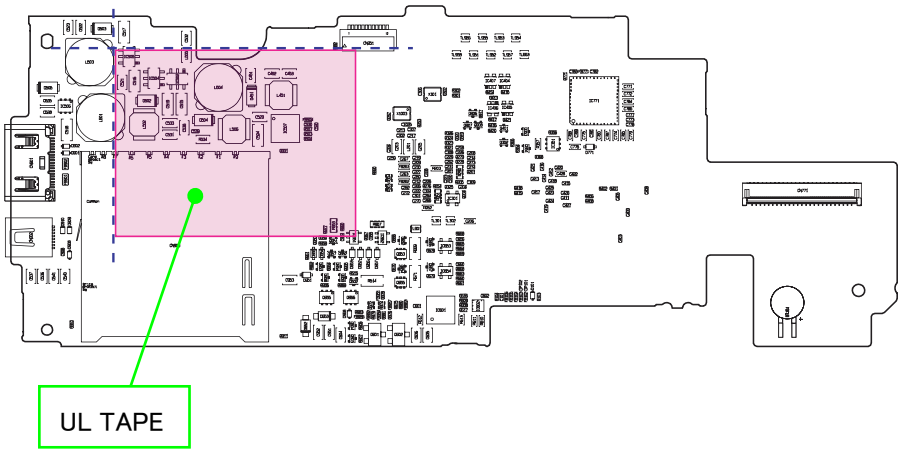
(4) Affix the UL_TAPE as shown in the figure.





(5) Affix the UL_TAPE (30X36mm) as shown in the figure.

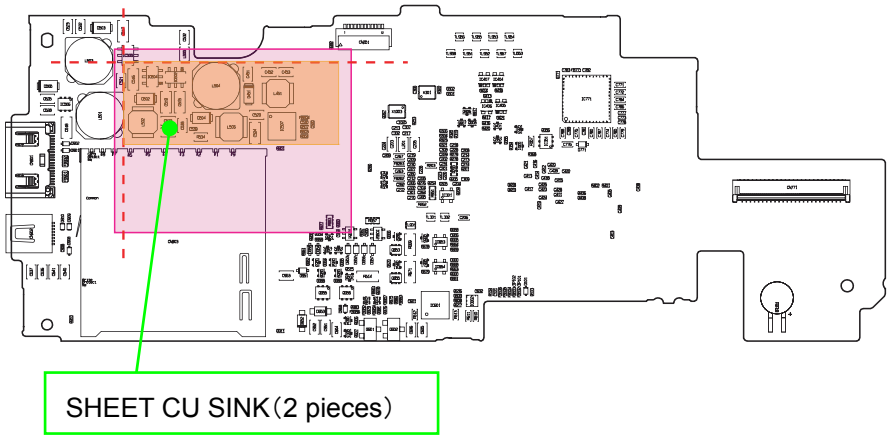
（UL TAPE：ZS00169-100）



☆ Revised:13.April.2012

☆

(6) Affix the SHEET CU SINK（2 pieces）as shown in the figure.

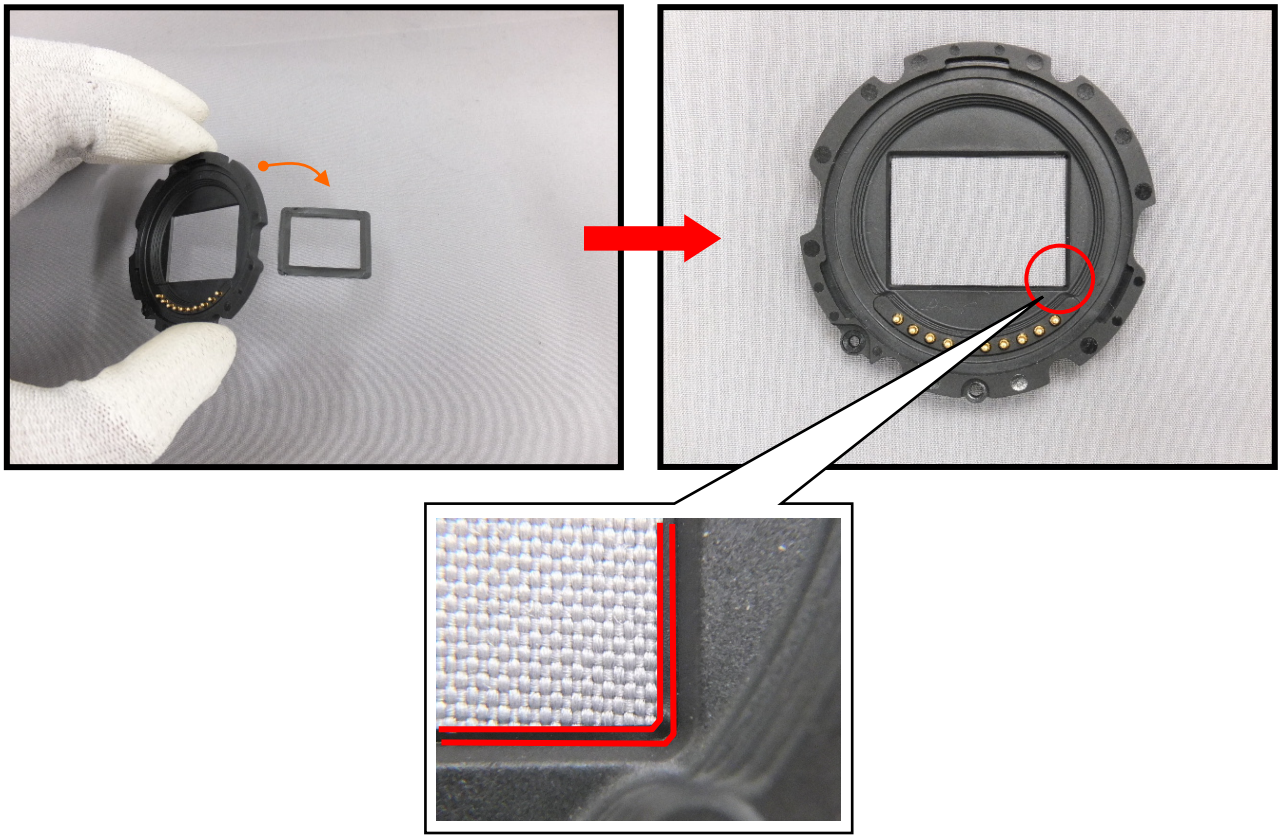


(7) Affix the UL_TAPE (19X37mm) as shown in the figure.

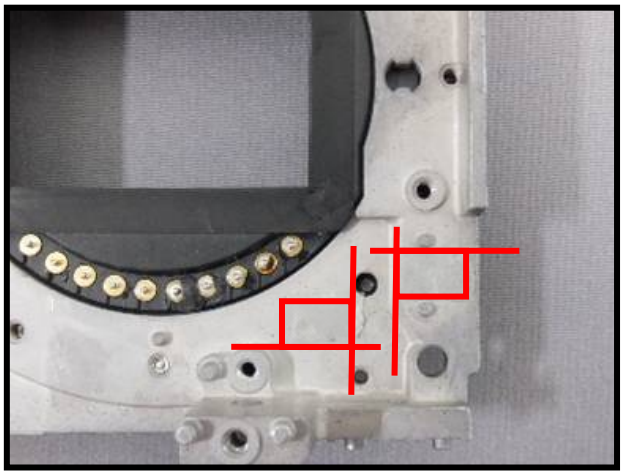
（UL TAPE：ZS00143-100）



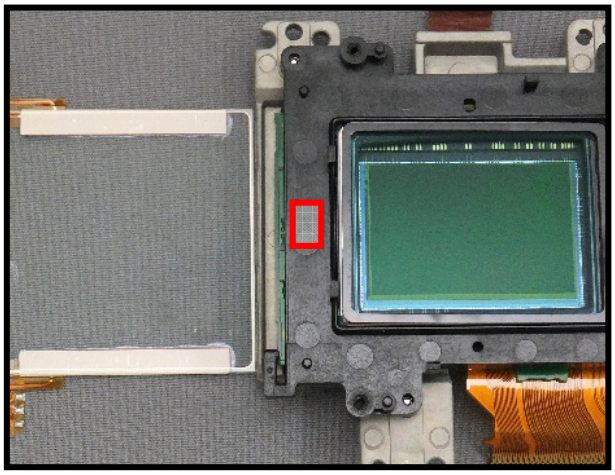
★(8) Affix the MASK_MOUNT on the HOLDER MOUNT ASSY as shown in the figure.



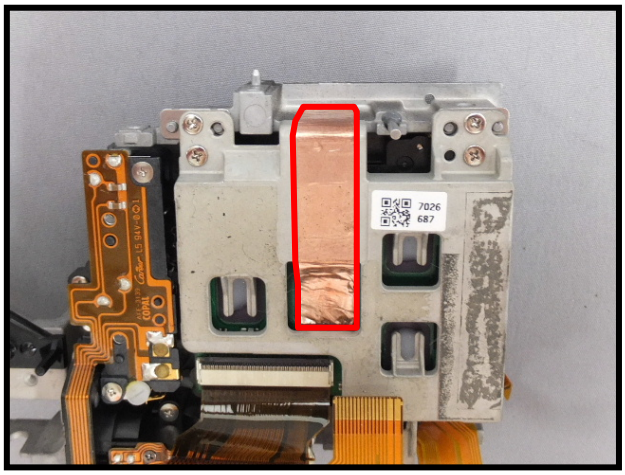
(9) Affix the TAPE FPCs on the MOUNT as shown in the figure.



★(10) Affix the TAPE FPC on the BASE CMOS as shown in the figure.



(11) Affix the SHEET CU on the CMOUS UNINT as shown in the figure.



1-12. Putting of leather sheet

【Attention】

●Ethanol with much higher density more than 81.4 vol% is not recommended for cleaning.

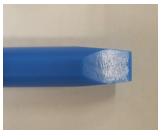
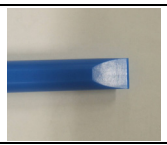
When the surface of synthetic leather must be cleaned up to remove some dirt and dust, please use "ethanol" with 76.9 to 81.4 vol% in density just as the cleaning substrate.

●Ethanol with much higher density more than 81.4 vol% is not recommended for cleaning.





<Grip press tool>

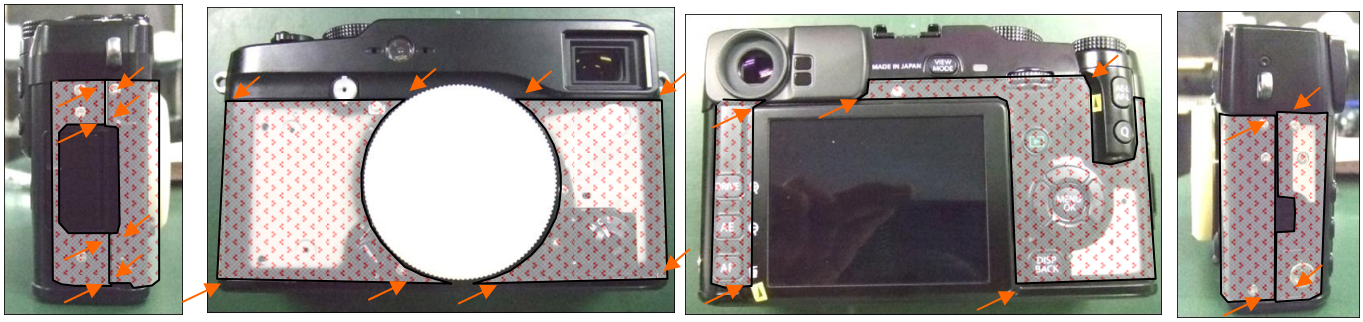
Pats. No	Name	Shape of the tip
ZJ01923-100	Grip press tool Type A	
ZJ01924-100	Grip press tool Type B	
ZJ01925-100	Grip press tool Type C	
ZJ01926-100	Grip press tool Type D	
ZJ01927-100	Grip press tool Type E	

★ Revised:21.Feb.2012

1-13. Procedure1

(1) I stick a seat and clean a part with ethanol.

<Clean an arrow part in particular chiefly.>

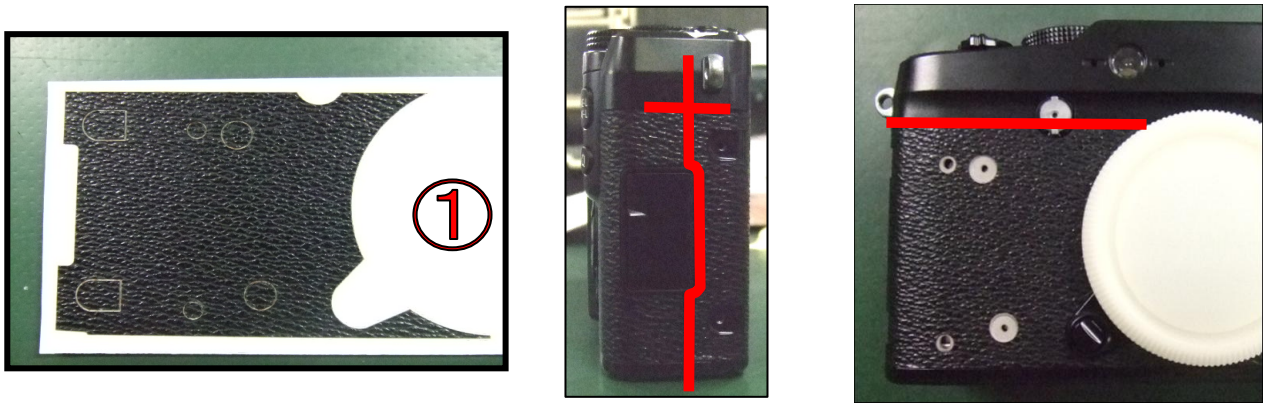


(2) I stick SHEET GRIP F RIGHT(①)on takeoff, CASE F.

Pasting standard: Top and bottom direction:CONST TOP insinuation.

Right and left direction:I make an insinuation at a lateral ups and downs shape.

Press power : More than 20N



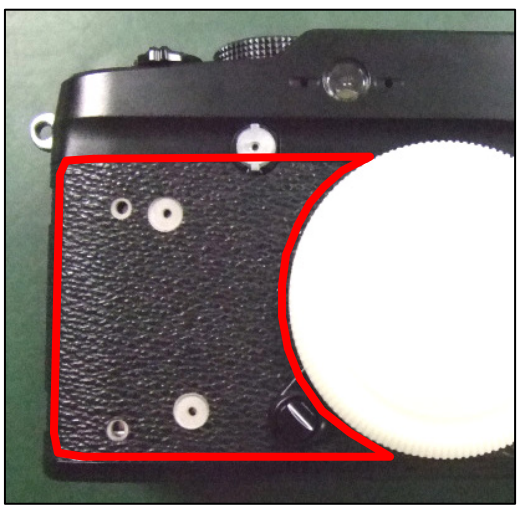
(3) I press it in spite of all SHEET GRIP F RIGHT laps in Tool.

*1: A SHEET not having the mixture such as alien substances.

*2: To the ups and downs side get, and there not being advance.

*3: I press the lateral side.

(Grip press tool Type A: ZJ01923-100)



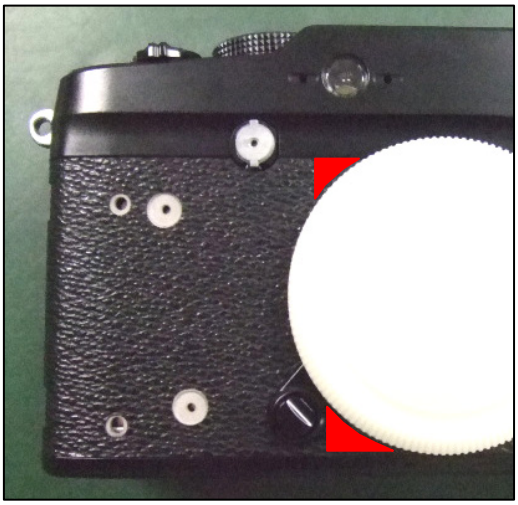
Type A



★ Revised:21.Feb.2012

(4) I press the LENS side SHEET tip in push Tool

(Grip press tool Type A: ZJ01923-100)





(5) I press it with a big part of push Tool in the arrow direction.

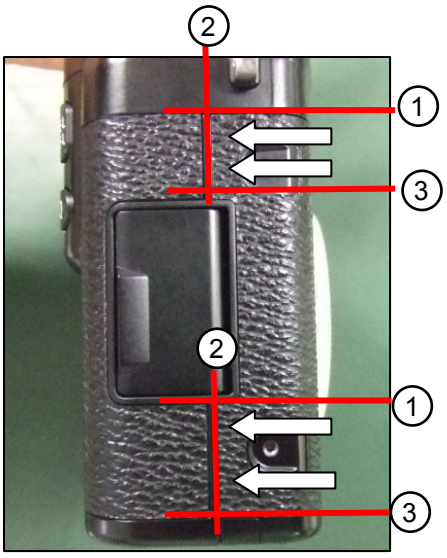
*1: Press it until I expose it to (2) red bars region in the state that I hinted to the red horizontal line side of superior wall (1) and am accompanied.

*2: I move to the bottom for a thing of push Tool and press it until I put it, and (2) red bars region is accompanied.

*3: In the state that moved to the bottom for a thing of push Tool, and hinted to red horizontal line region of left wall (3) in (2) red bars I press it until I put it and am accompanied.

*4: I divide the whole red frame moiety into three times and press it.

(Grip press tool Type B: ZJ01924-100)





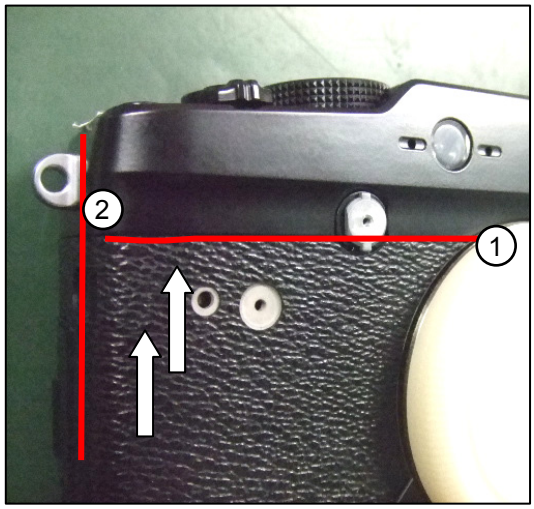
★ Revised:21.Feb.2012

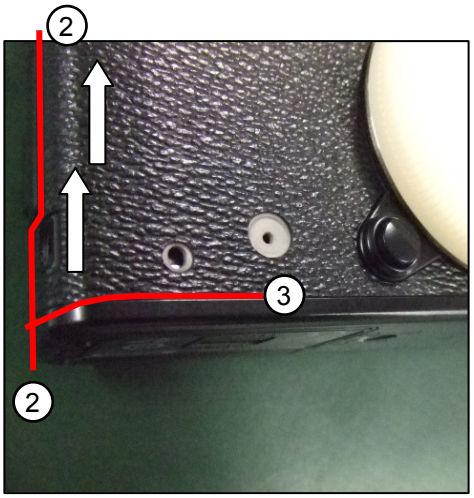
(6) I commute in the arrow direction with a curve part of push Tool and press it.

*1: I press it by coming and going until I press it until I expose it to (2) red lines region in the state that let you comply with curve part (1) of LENS side GRIP and am accompanied and expose it to (3) red lines side and am accompanied.

*2: I divide the whole red frame moiety into three times and press it.

(Grip press tool Type C: ZJ01925-100)





Type C

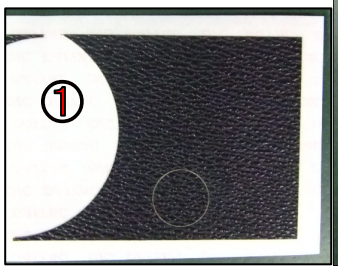


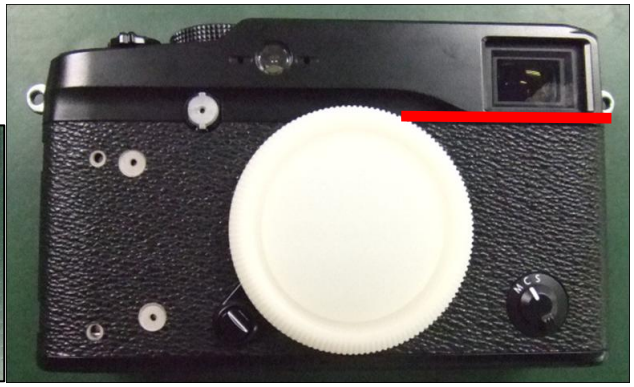
1-14. Procedure2

(1) I stick SHEET GRIP F LEFT (①) on takeoff, CASE F.

Pasting standard: Top and bottom direction:CONST TOP insinuation.

Right and left direction: I make an insinuation at a lateral ups and downs shape.







★ Revised:21.Feb.2012

(2) I press it in spite of all SHEET GRIP F LEFT laps in Tool.

*1: A SHEET not having the mixture such as alien substances.

*2: To the ups and downs side get, and there not being advance.

*3: I press the lateral side.

(Grip press tool Type A: ZJ01923-100)



Type A



(3)I press the LENS side SHEET tip in push Tool.

(Grip press tool Type A: ZJ01923-100)



Type A



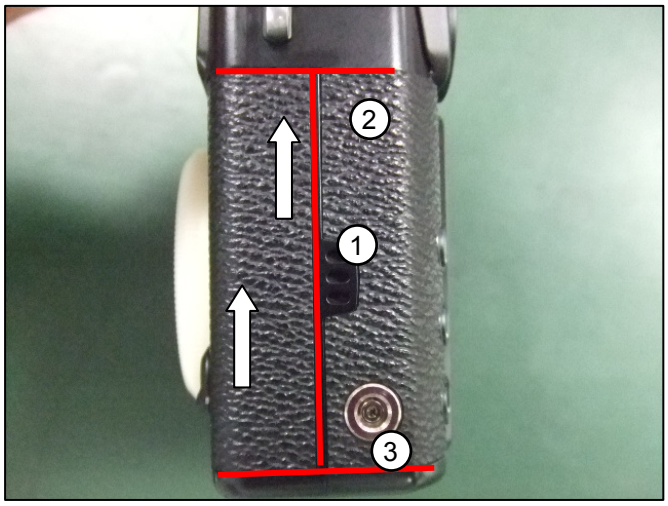
(4) I press it with a big part of push Tool in the arrow direction.

*1: I press it until I expose it to (2) red horizontal lines region in the state that I hinted to the red bar side of upper wall (1) and am accompanied.

*2: I move to the left side for a thing of push Tool and press it until I expose it to (2) red horizontal line moiety and am accompanied.

*3: I divide the partial whole of the red frame into twice and press it.

(Grip press tool Type B: ZJ01924-100)





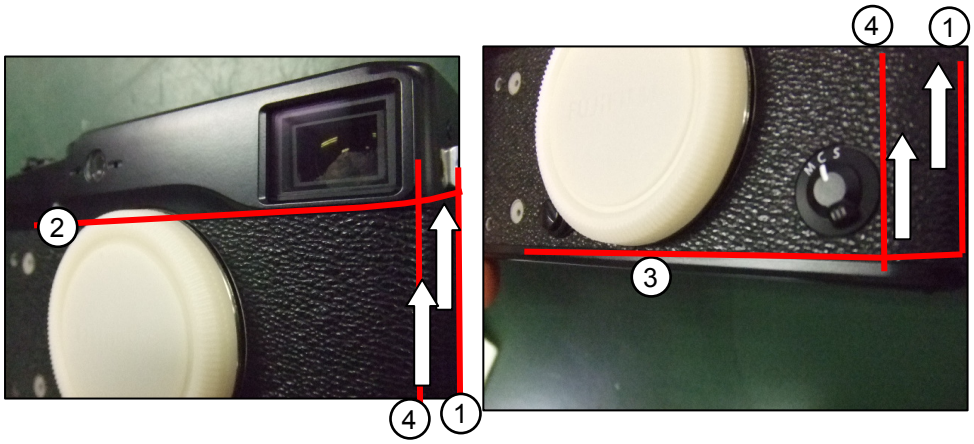
(5) I commute in the arrow direction with a curve part of push Tool and press it.

*1: I press it until I expose it to (2) red line region in the state that let the curve part of the LENS side grip (1) go and am accompanied (3) I press it by coming and going until I put it and am assigned to the red line side.

*2: Move to the left side for a thing of push Tool, and press it by coming and going until put it, and (2) red line part is accompanied; in (3) red line side I press it by coming and going until I put it and am accompanied.

*3: I repeat the work mentioned above to (4) red line part.

*4: I divide it into three times and press it.





★ Revised:21.Feb.2012

1-15. Procedure3

(1) I take out SHEET GRIP R RIGHT (①) and stick it on CASE R.

Pasting standard: Top and bottom direction : CONST TOP insinuation.

Right and left direction: I make an insinuation at a lateral ups and downs shape.

*1: I perform pasting up from the position becoming the standard of right and left direction and the top and bottom direction.

*2: I stick the right and left course on the basis of around cross KEY part.







(2) I press it in spite of all SHEET GRIP R RIGHT laps in Tool.

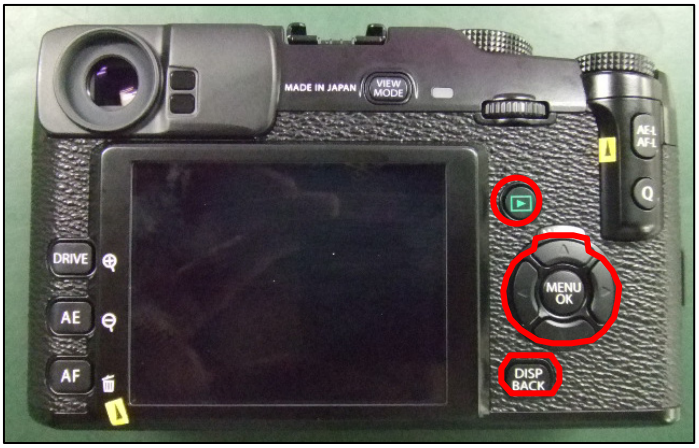
*1: A SHEET not having the mixture such as alien substances.

*2: To the ups and downs side get, and there not being advance.

*3: I press the lateral side.

(Grip press tool Type A: ZJ01923-100)





Type A



★ Revised:21.Feb.2012

(3) I press it with a big part of push Tool in the arrow direction.

*1: I press it until I put it and am assigned to the red bar side of the right wall (1).

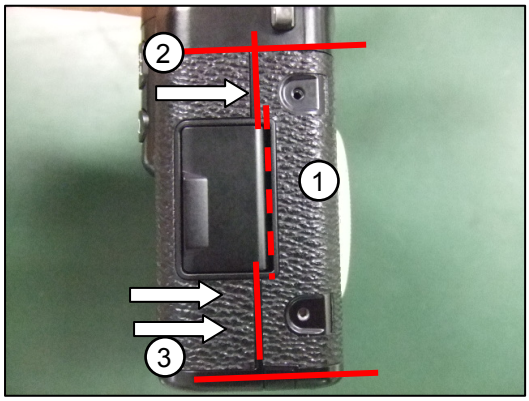
*2: It travels push Tool in the upper part of the card lid and presses it until I expose it to (2) red horizontal line region and am accompanied.

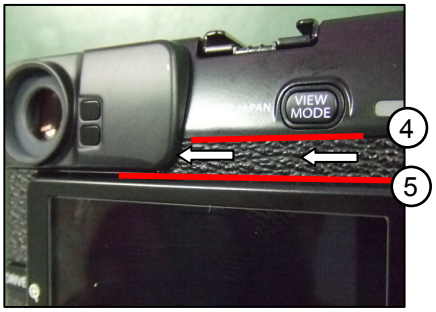
*3: It travels push Tool in the bottom of the card lid and presses it until I expose it to (3) red horizontal line moiety and am accompanied.

*4: I press it between (4) and (5) in the arrow direction.

*5: I divide the whole red frame moiety into three times and press it.

(Grip press tool Type B: ZJ01924-100)





Type B



(4) I commute in the arrow direction with a curve part of push Tool and press it.

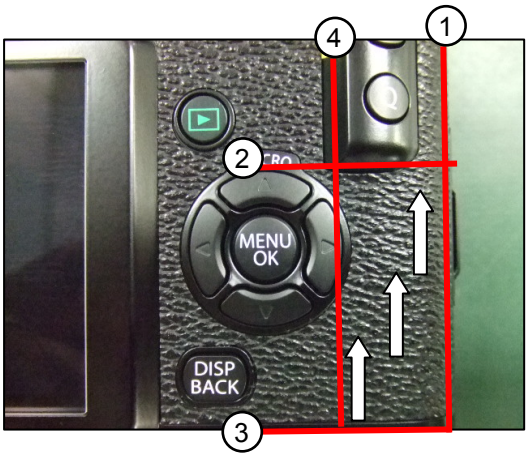
*1: I press it until I expose it to (2) red line moiety in the state that let you go of the R LEFT side grip curve part (1) and am accompanied and press it by coming and going until I expose it to (3) red line side and am accompanied.

*2: I move to the right side for a thing of push Tool and press it by coming and going until I put it, and (2) red line part is accompanied.

*3: I repeat the work mentioned above to (4) red line part.

*4: I divide it into three times and press it.

(Grip press tool Type C: ZJ01925-100)



Type C



★ Revised:21.Feb.2012

1-16. Procedure4

(1) I stick SHEET GRIP R LEFT (①) on takeoff, CASE R.

Pasting standard: Top and bottom direction:CONST TOP insinuation.

Right and left direction: I make an insinuation at a lateral ups and downs shape.

*1: Perform pasting up from the position becoming the standard of right and left direction and the top and bottom direction.



(2) I press it in spite of all SHEET GRIP R LEFT laps in Tool.

*1: SHEET not having the mixture such as alien substances.

*2: The thing that it runs, and there is not to a projection.

(Grip press tool Type A: ZJ01923-100)



Type A



★ Revised:21.Feb.2012

(3) I press the lower finder tip of SHEET GRIP R LEFT and the tip of each SW penumbra of DRIVE/AF/AE in push Tool.

*1: SHEET not having the mixture such as alien substances.

*2: The thing that it runs, and there is not to a projection.

(Grip press tool Type A: ZJ01923-100)





Type A



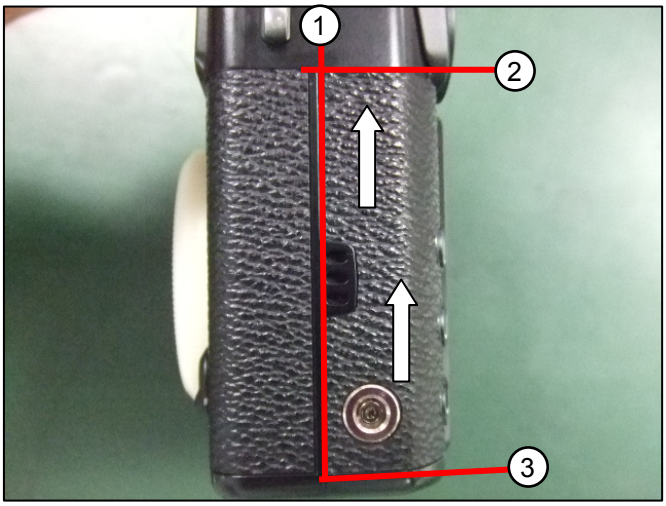
(4) I press it with a big mask of push Tool in the arrow direction.

*1: I press it until I expose it to (2) red horizontal line region in the state that I hinted to the red bar side of the left wall (1) and am accompanied.

*2: On the right side of push, the Tool size move, and press it until put it, and (2) red horizontal line part is accompanied.

*3: I divide the whole red frame moiety into twice and press it.

(Grip press tool Type B: ZJ01924-100)



Type B



★ Revised:21.Feb.2012

(5) I commute in the arrow direction with a curve part of push Tool and press it.

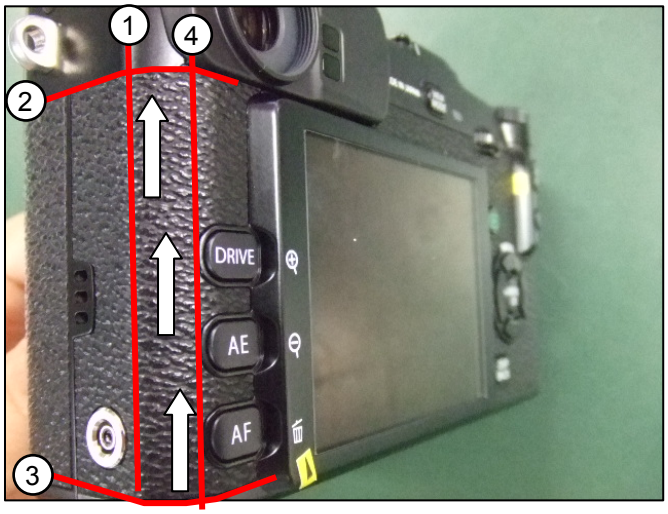
*1: I press it until I expose it to (2) red line region in the state that let the R LEFT side grip curve part (1) go and am accompanied and press it by coming and going until I expose it to (3) red line side and am accompanied.

*2: I move to the right side for a thing of push Tool and press it by coming and going until I press it by coming and going until I expose it to (2) red line moiety and am accompanied and expose it to (3) red line side and am accompanied.

*3: I repeat the work mentioned above to (4) red line part.

*4: I divide it into three times, and press it.

(Grip press tool Type C: ZJ01925-100)



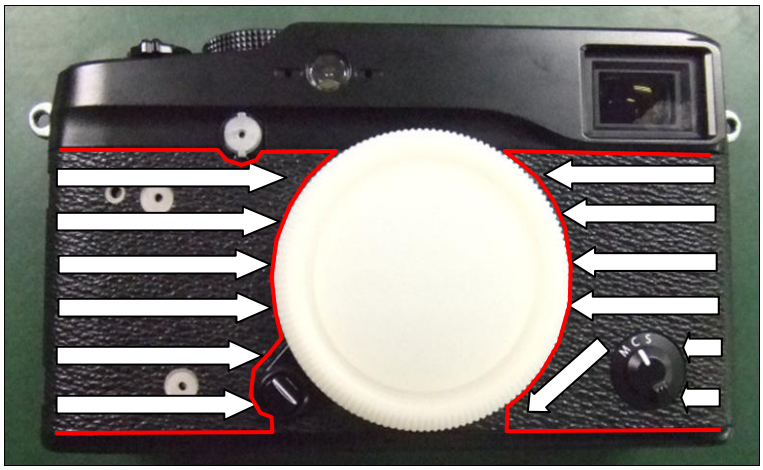


(6)Press of press tool in the arrow direction.

*1: Divide it into seven times and push it

*2: Divide it into six times and push it

(Grip press tool Type E: ZJ01927-100)





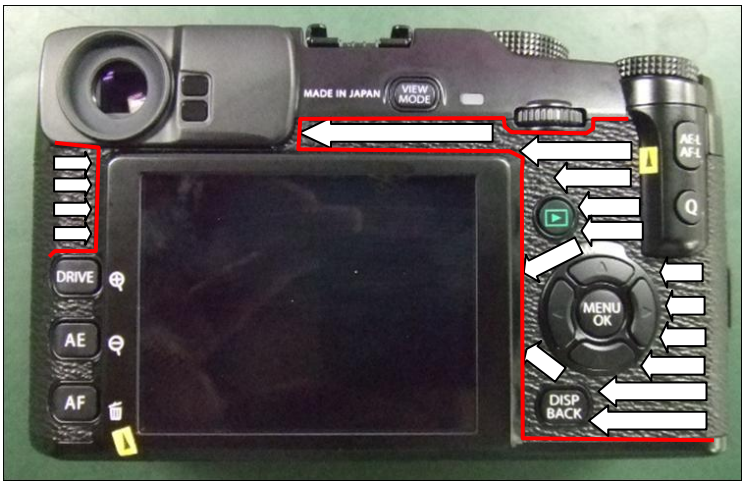
★ Revised:21.Feb.2012

(7)Press of press tool in the arrow direction.

*1: Divide it into 13 times and push it

*2: Divide it into four times and push it

(Grip press tool Type D: ZJ01926-100)





★ Revised:21.Feb.2012

1-17. Procedure5

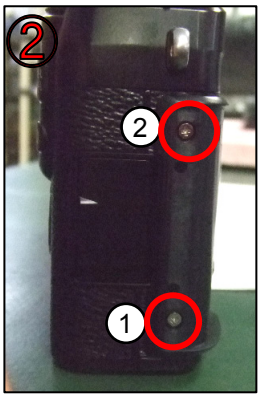
(1) I take out BASE GRIP F (①), and possess CASE F of the camera body and close a screw (②) to CASE F.

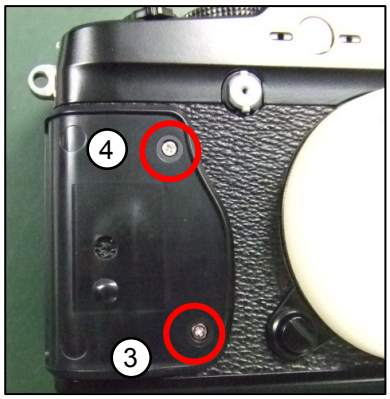
*1: I tighten a screw while approaching to the thickness direction of the camera body and lose it.

Clamping order : ①→②→③→④

Screw total torque : 0.10±0.02N･m







(2) I take out TAPE GRIP F (③) and stick it on BASE GRIP F after detachment paper stripping.

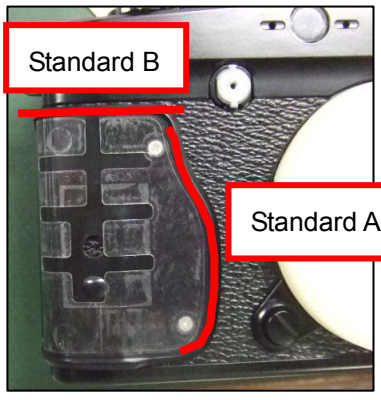
Pasting standard: Direction of right and left: Chart below standard A part insinuation

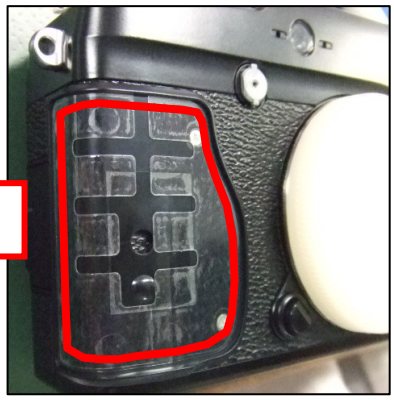
Top and bottom direction: Chart below standard B part insinuation

*1: Perform pasting up from the position becoming the standard of right and left direction and the top and bottom direction.

*2: Press the whole enough so that tape adheres.







★ Revised:21.Feb.2012

(3) I stick GRIP F (④) on takeoff BASE GRIP F/TAPE GRIP F.

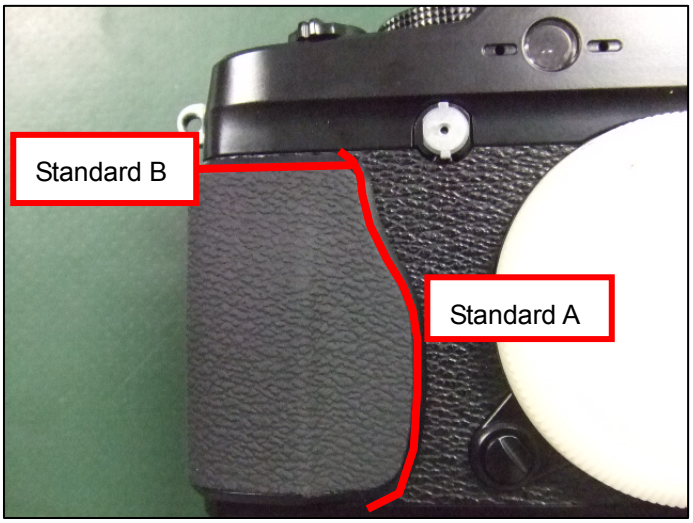
Pasting standard: **Direction of right and left: Chart below standard A part insinuation**

Top and bottom direction: Chart below standard B part insinuation

*1: GRIP F to BASE GRIP F runs; impossibility (all laps department)

*2: Press GRIP F from the top so that a gap does not occur in GRIP F and BASE GRIP F.

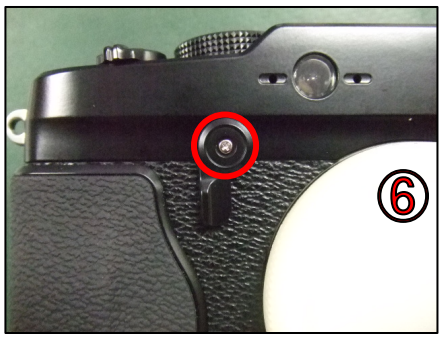




☆ (4) I take out LEVER FINDER (⑤), and possess CASE TOP and close a screw (⑥) to CASE TOP.

Screw total torque : 0.14±0.02N･m





(5) I take out DECO PLATE LEVER (⑦) and stick it on LEVER FINDER after detachment stripping.





☆ Revised:13.April.2012

★ Revised:21.Feb.2012

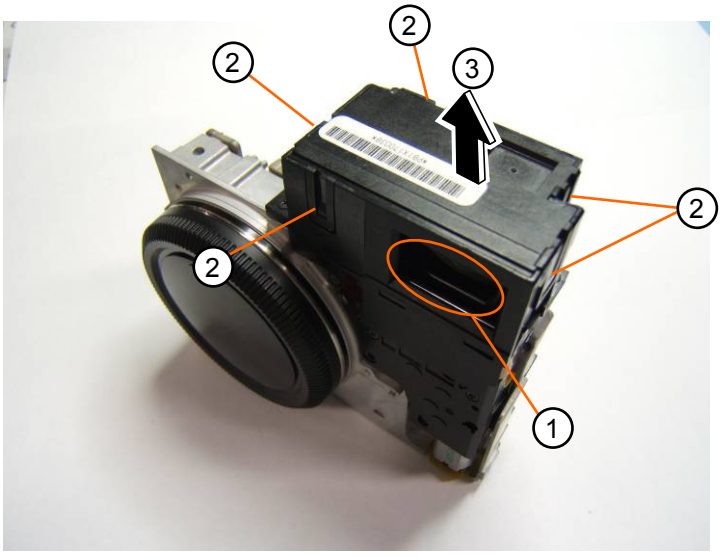
○ 1-18. Disassembling the FINDER

* Do the dissolution of finder department, in the case that the garbage, dirt removal inside the finder are necessary.
* Clean environment where garbage is not in if possible.
* Lens which varies in zoom ratio makes a evacuation.

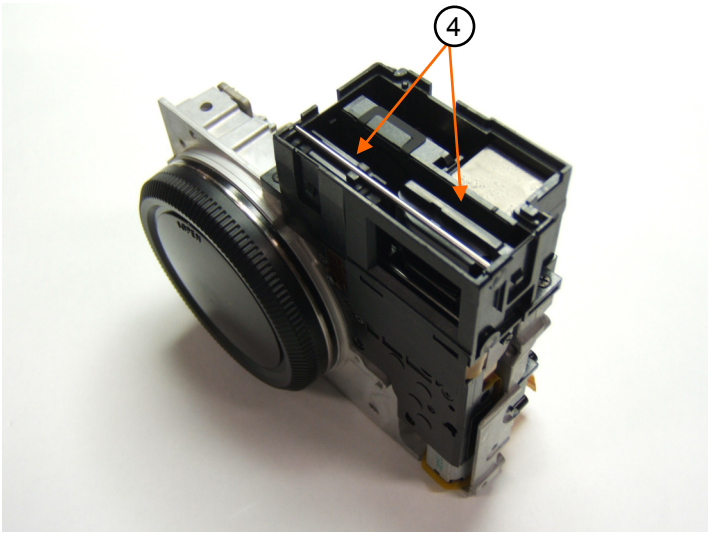
(1) Lens which varies in zoom ratio makes a evacuation.

(2) Take off five hooks

(3) Lift up the FINDER COVER in the direction of the arrow.



(4) Clean with air blow or applicator.

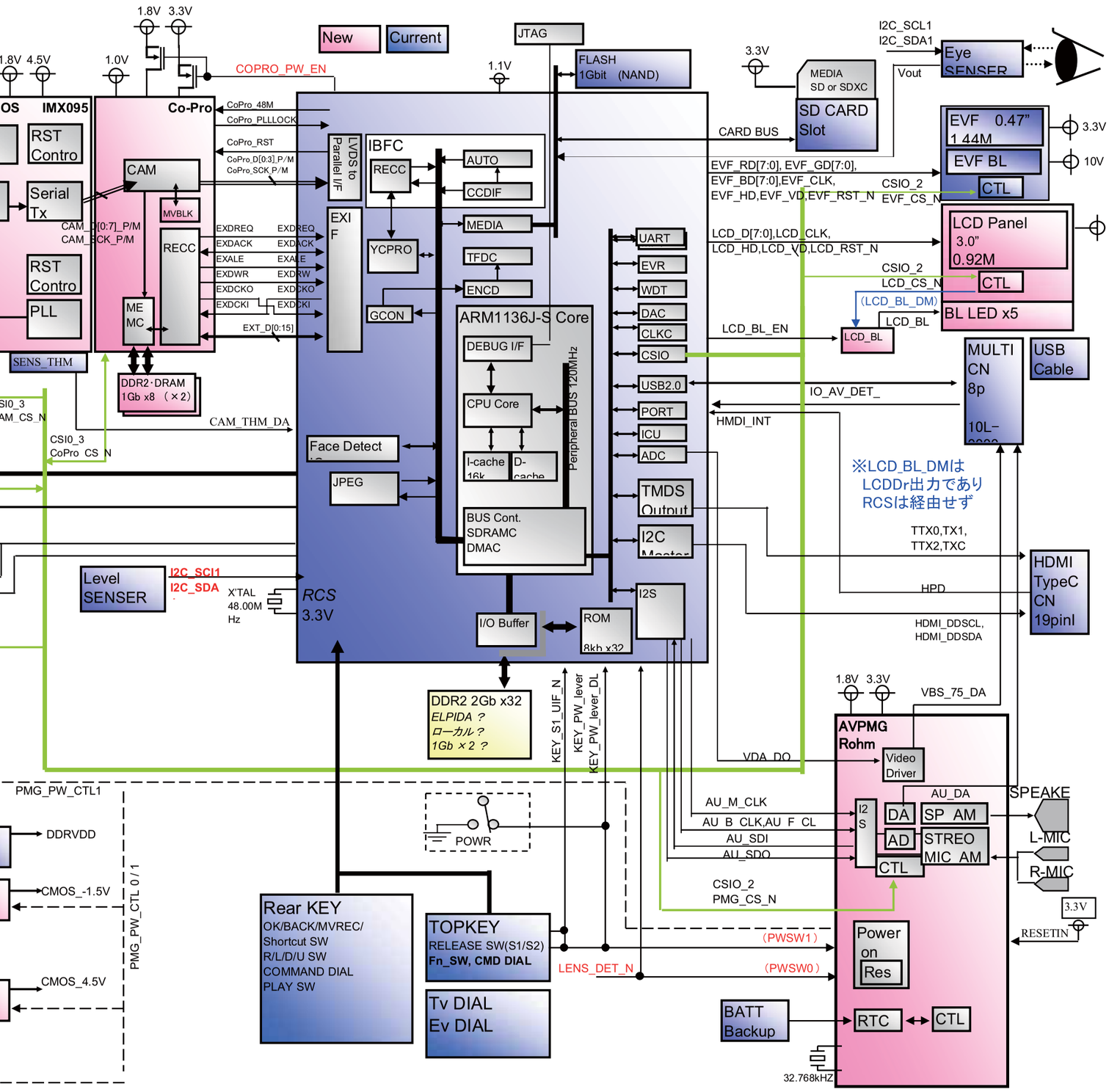


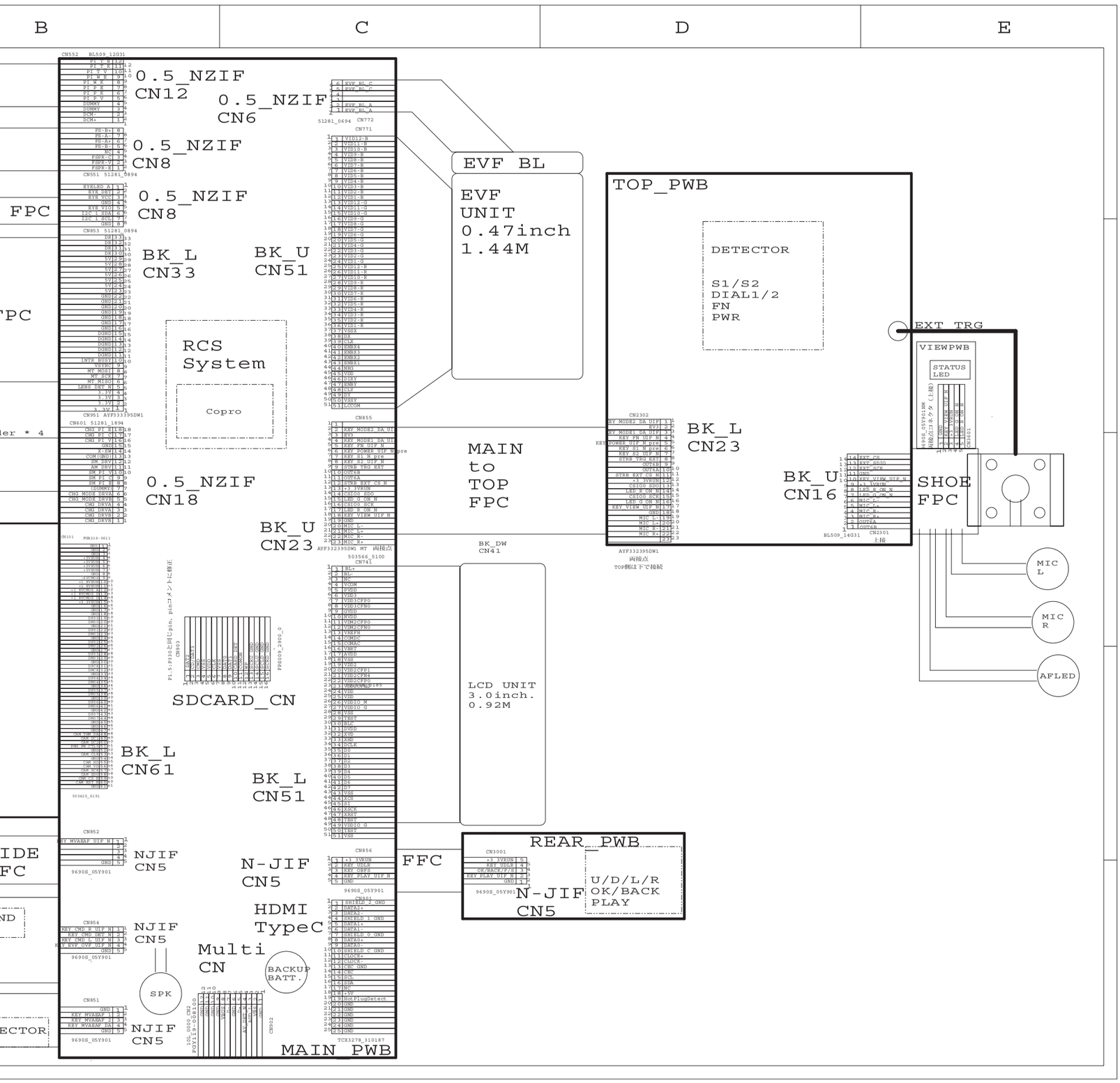
[Assembly]

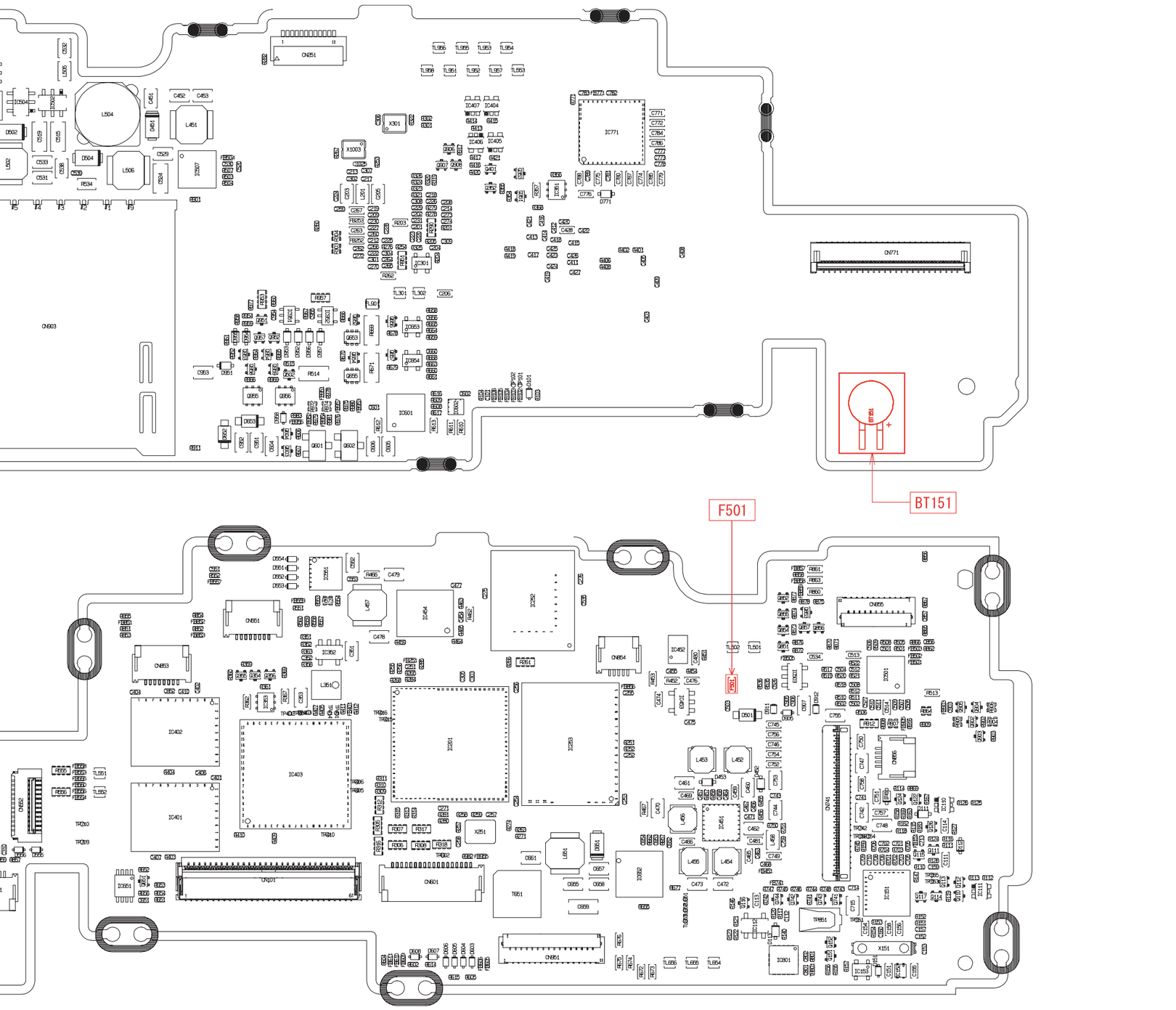
Assemble by performing the disassembly procedure in reverse.

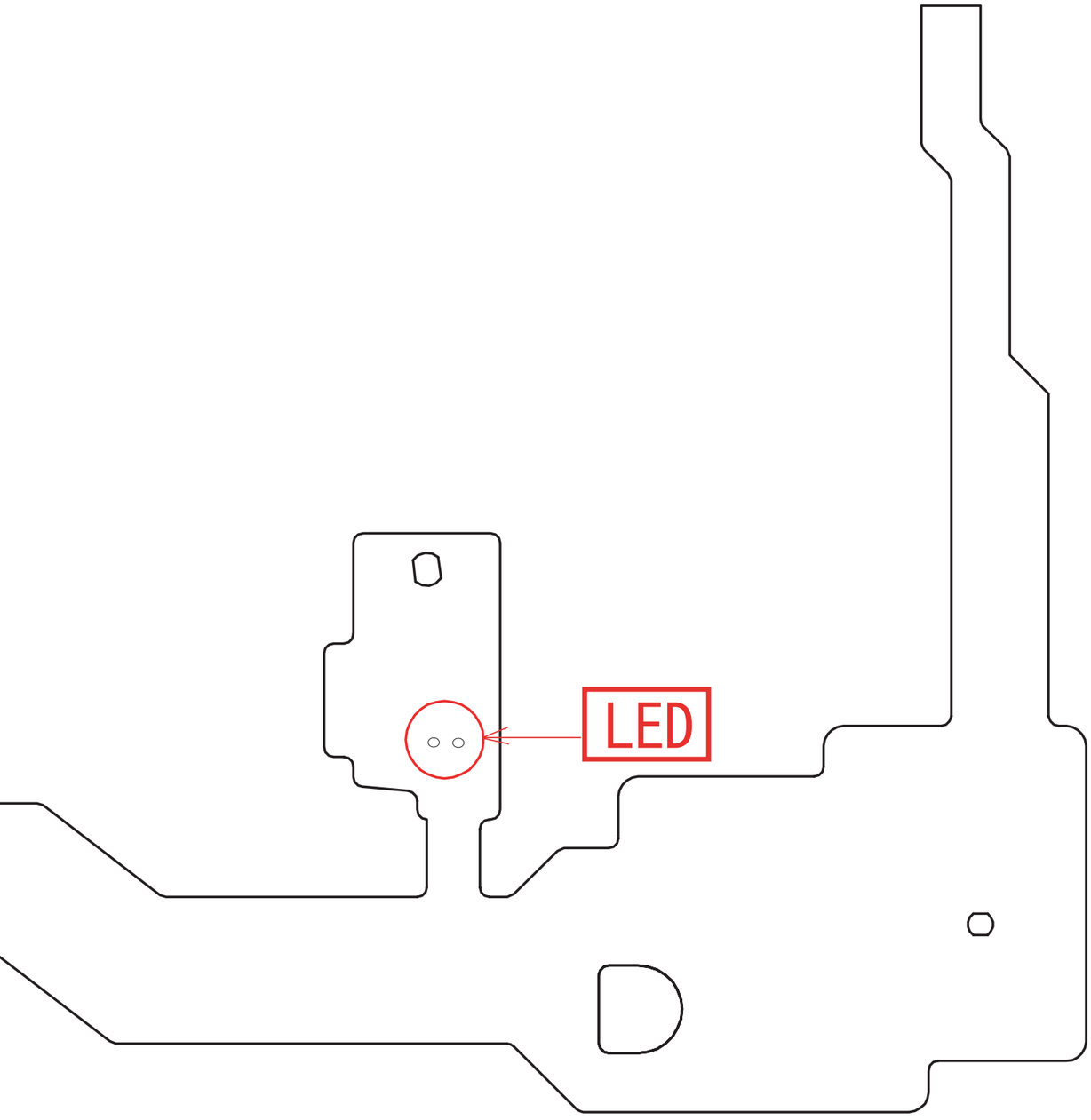
○ Revised:20.April.2012

MEMO


1.8V 3.3V
New
Current
JTAG
1.8V 4.5V
1.0V
COPRO_PW_EN
1.1V
FLASH
1Gbit (NAND)
3.3V
MEDIA
SD or SDXC
SD CARD
Slot
CARD BUS
I2C_SCL1
I2C_SDA1
Eye
SENSER
Vout
OS IMX095
Co-Pro
RST
Contro
CAM
Serial
Tx
MVBLK
RECC
ME
MC
RST
Contro
PLL
SENS_THM
CoPro_48M
CoPro_PLLLOCK
CoPro_RST
CoPro_D[0:3]_P/M
CoPro_SCK_P/M
CAM_D[0:7]_P/M
CAM_SCK_P/M
EXDREQ
EXDACK
EXALE
EXDWR
EXDCKO
EXDCKI
EXT_D[0:15]
LVDS to Parallel I/F
EXI
F
IBFC
RECC
AUTO
CCDIF
MEDIA
YCPRO
TFDC
ENCD
GCON
ARM1136J-S Core
DEBUG I/F
CPU Core
I-cache 16k
D-cache
Peripheral BUS 120MHz
BUS Cont.
SDRAMC
DMAC
UART
EVR
WDT
DAC
CLKC
CSIO
USB2.0
PORT
ICU
ADC
TMDS Output
I2C Master
I2S
ROM
8kb x32
I/O Buffer
DDR2·DRAM
1Gb x8 （×2）
DDR2 2Gb x32
ELPIDA ?
ローカル?
1Gb ×2 ?
CSI0_3
AM_CS_N
CSI0_3
CoPro_CS_N
CAM_THM_DA
Face Detect
JPEG
Level
SENSER
I2C_SCL
I2C_SDA
X'TAL
48.00M
Hz
RCS
3.3V
KEY_S1_UIF_N
KEY_PW_lever
KEY_PW_lever_DL
EVF_RD[7:0], EVF_GD[7:0],
EVF_BD[7:0],EVF_CLK,
EVF_HD,EVF_VD,EVF_RST_N
CSIO_2
EVF_CS_N
EVF 0.47”
1 44M
EVF BL
CTL
3.3V
10V
LCD_D[7:0],LCD_CLK,
LCD_HD,LCD_VD,LCD_RST_N
LCD Panel
3.0”
0.92M
CTL
3.3V
CSIO_2
LCD_CS_N
(LCD_BL_DM)
LCD_BL
BL LED x5
LCD_BL_EN
LCD_BL
MULTI
CN
8p
10L-
USB
Cable
CSIO_2
LCD_CS_N
IO_AV_DET_
HMDI_INT
※LCD_BL_DMは
LCDDr出力であり
RCSは経由せず
TTX0,TX1,
TTX2,TXC
HDMI
TypeC
CN
19pinI
HPD
HDMI_DDSCL,
HDMI_DDSDA
1.8V 3.3V
VBS_75_DA
AVPMG
Rohm
Video
Driver
VDA_DO
AU_DA
SPEAKE
AU_M_CLK
AU_B_CLK,AU_F_CL
AU_SDI
AU_SDO
I2S
DA
SP AM
AD
STREO
MIC AM
CTL
L-MIC
R-MIC
CSIO_2
PMG_CS_N
3.3V
RESETIN
PMG_PW_CTL1
DDRVDD
CMOS_-1.5V
CMOS_4.5V
PMG_PW_CTL 0 / 1
POWR
Rear KEY
OK/BACK/MVREC/
Shortcut SW
R/L/D/U SW
COMMAND DIAL
PLAY SW
TOPKEY
RELEASE SW(S1/S2)
Fn_SW, CMD DIAL
Tv DIAL
Ev DIAL
LENS_DET_N
(PWSW1)
(PWSW0)
Power
on
Res
BATT
Backup
RTC
CTL
32.768kHZ


B
C
D
E
FPC
0.5_NZIF
CN12
0.5_NZIF
CN6
0.5_NZIF
CN8
0.5_NZIF
CN8
BK_L
CN33
BK_U
CN51
RCS
System
Copro
0.5_NZIF
CN18
BK_U
CN23
SDCARD_CN
BK_L
CN61
BK_L
CN51
NJIF
CN5
NJIF
CN5
NJIF
CN5
SPK
EVF BL
EVF
UNIT
0.47inch
1.44M
MAIN
to
TOP
FPC
BK_DW
CN41
LCD UNIT
3.0inch.
0.92M
TOP_PWB
DETECTOR
S1/S2
DIAL1/2
FN
PWR
BK_L
CN23
BK_U
CN16
EXT_TRG
VIEWPWB
STATUS
LED
SHOE
FPC
MIC
L
MIC
R
AFLED
FFC
REAR_PWB
U/D/L/R
OK/BACK
PLAY
N-JIF
CN5
N-JIF
CN5
HDMI
TypeC
Multi
CN
BACKUP
BATT.
MAIN_PWB


BT151
F501


LED

3. Adjustments

3-1. Important point before adjustment (the internal memory deployment model)

3-1-1. The handling of image files in internal memory

Image files contained in the internal memory should be handled as described below.

<Procedure for handling images>

When either of following work is necessary, as many as possible of the image files should be extracted from the camera's internal memory and then written into the internal memory in the repaired or replacement camera before the camera is returned to the customer.

1. When the replacement camera is provided.
2. When the MAIN PWB ASSY is replaced.
   --->When "MAIN PWB ASSY" is replaced, it is necessary to execute "Flash memory reset".
   (When the "Flash memory reset" was executed, involve formatting the internal memory.)

***Note**

For PTP-connected cameras, carry out the procedure in "ii. Procedure for PTP-connected cameras and images that cannot be downloaded to a PC".

<Image file transfer procedure>

I. Procedure when images can be downloaded to a PC

* If an memory card is inserted, data in the internal memory cannot be backed up.

(1) Back up the images stored in internal memory.
- Create a folder (named and located so as to avoid any confusion with the user's images).
- Without inserting an memory card, connect the camera to a PC and copy the image files on the removable disk recognized by the PC to the folder created in the previous step.
- Check that the images can be displayed correctly on the PC.

(2) Return the backed up image files from the PC to the camera.
- Turn the camera on without an memory card inserted and format the camera's internal memory.
- Without inserting an memory card, connect the camera to the PC and copy the image files from the folder containing the images backed up in the previous step onto the removable disk recognized by the PC.
- Check that the images can be displayed correctly on the camera.
- Delete the backup files created on the PC in step (1) (the user's image files).

II. Procedure when images cannot be downloaded to a PC

(1) Back up the images stored in internal memory.
- Insert an memory card to be used for image backup into the camera and format the card.
- From the SETUP menu, reset the frame numbers.
- Select image copying from the playback menu, select "Camera -> Card" for all the frames and then copy the images.
- Check that the images can be displayed correctly on the camera.

(2) Return the backed up image files from the memory card to the camera.
- Before inserting the card, format the camera's internal memory.
- Insert the memory card containing the backed up copies of the user's image files.
- From the SETUP menu, reset the frame numbers.
- Select image copying from the playback menu, select "Card -> Camera" for all the frames and then copy the images.
- Remove the memory card and check that the images can be displayed correctly on the camera.
- From the SETUP menu, set the frame numbers to the default sequence.
- If the image file numbers have changed, always notify the user in writing that the image file numbers have changed.

III. Procedure for PTP-connected cameras and images that cannot be downloaded to a PC

(Images can only be backed up to a PC. * Normally, back up images using procedure II.)

(1) Back up the images stored in the camera's built-in memory.
- Create an FAIS receive number folder (to ensure error-free user image management).
- Without inserting an memory card, connect the camera to the PC and check the image files in the camera on the PC. Then copy those files to the folder described on the previous page.
- Check that the images can be viewed successfully on the PC.

(2) Return the backup image files from the PC to the camera.
- With no memory card inserted, turn the camera on and format the built-in memory.
- Using a card reader or similar device, check the memory card to be used for image file backup on your PC.
- Copy the image files from the image file backup folder on the previous page into the "DCIM\100_FUJI\" folder on the image file backup memory card.
- Using a safe procedure, remove the image file backup memory card from your PC.
- Load the image file backup memory card into the camera.
- Select "Copy image" in the Playback menu, select all the frames in "Card -> Camera" and then copy the images.
- Remove the memory card and check that the images can be viewed successfully.
- Delete the backup files (user image files) created on the PC in step (1).

3-1-2. Adjustment when replacing major parts

<Note>
Depending on the temperature inside the camera (approx. 15°C or below or 50°C or above) a "Temperature NG" error may occur during X-Pro1 adjustment.
When a "Temperature NG" error occurs, turn the camera off and leave it for a short time before resuming the adjustments.
Check the ambient temperature also as this can influence the procedure.

✧ Adjust the item shown by O in the table below at the part replacement of Y-10241MAIN PWB, UNIT MOUNT, CONST ASSY FRONT and FP SHUTTER (Other part replacements need not be adjusted).

No.	Replacing parts / Adjustment item	Y-10241 MAIN PWB ASSY	UNIT MOUNT	CONST ASSY FRONT	✧FP SHUTTER
0	MAIN PWB Initialize(BOOT.exe) *1	O			
1	Mount Data Write	O	O	O	
2	Level Adjustment(Normal temperature)	O	O	O	
3	CMOS Defect Correction	O	O	O	
4	Camera Adjustment	O	O	O	O
5	Level Adjustment(High temperature)	O	O	O	
6	EVF Adjustment	O	O	O	
7	Battery Voltage Adjustment	O	O	O	
8	Firmware Download	Do not use it until there is an instruction.			
9	End Setting	Do the end setting when you end the adjustment software when you set the camera to the Jig mode.			

* The firmware is not installed in new Y-10241MAIN PWB ASSY. When Firmware Download is not executed first, it doesn't operate normally. *1
When the Y-10241MAIN PWB ASSY has been replaced, always reset the MAIN PWB Initialize before making any other adjustments.

3-2. Measuring instruments used

Measuring equipment	Remarks
Regulated power supply	For adjustment
Pattern box	PTB450F
Digital voltmeter	For Battery adjustment
PC	Used for various adjustments and operation checks (PC-AT compatible) OS*1: Win 2000 SP4, XP SP2*2
Brightness meter	LS-110 (Minolta) or equivalent
Color temperature meter	Color Meter IIIF (Minolta) or equivalent
Flash meter	For adjustment and function inspection

*1: PC condition
1. Hardware recommendation: **CPU; Pentium4 2.4GHz** or better, **Available MAIN MEMORY; 512MB** or more.
   It might make an error of the adjustment when the performance of PC is low.
2. **Video Jig** must be installed.
3. Check that Microsoft .NET Framework Version 2.0 is installed.

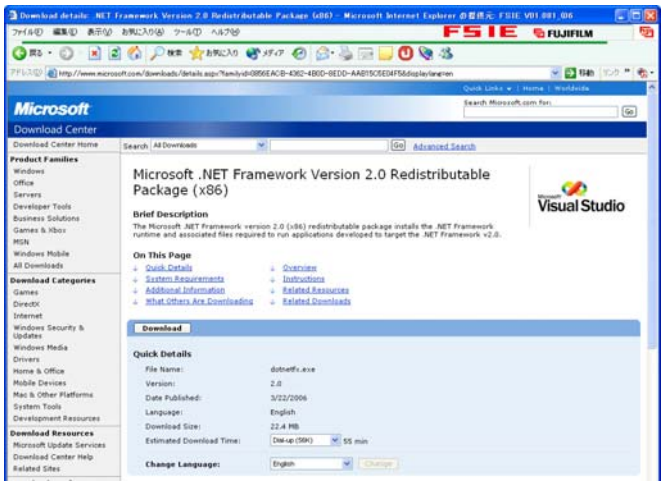
*2: To install Microsoft .NET Framework Version 2.0 in Windows 2000 SP4, you must first install Windows Installer 3.0.

✧: Revised

3-2-1. Installing .NetFramework Version 2.0

<Step 1>
Download .NET Framework Version 2.0 from Microsoft.
(See the address below and light picture.)
http://www.microsoft.com/downloads/details.aspx?familyid=0856EACB-4362-4B0D-8EDD-AAB15C5E04F5&displaylang=en

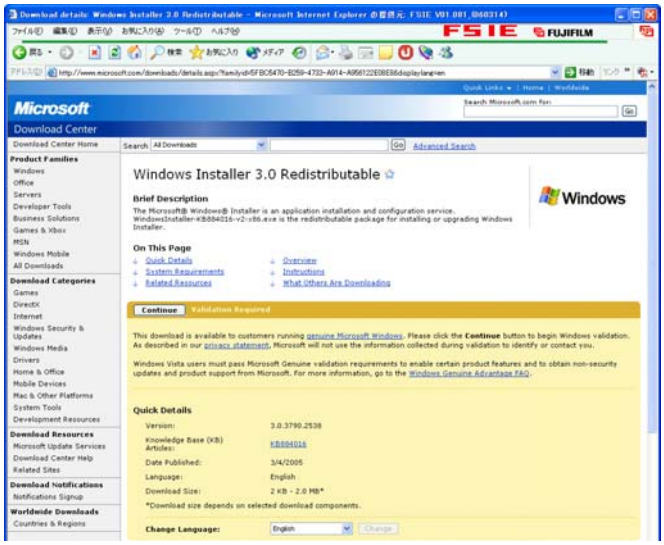
<Step 2>
After downloading the software, complete the installation as directed by the Install wizard.



3-2-2. Installing Windows Installer 3.0(Windows 2000 SP4 only)

<Step 1>
Download Windows Installer from Microsoft.
(See the address below and light picture.)
http://www.microsoft.com/downloads/details.aspx?familyid=5FBC5470-B259-4733-A914-A956122E08E8&displaylang=en

<Step 2>
After downloading the software, complete the installation as directed by the Install wizard.



3-3. Use jig list

Pats. No	Name	Comment	Remarks
ZJ00699-100	Filter LB145	Camera adjustment	Common with the FinePix F700
ZJ00653-100	LB145 filter holder kit for X-Y stage	Camera adjustment	Common with the FinePix F700
---	USB cable	General adjustment	This is bundled to the product
ZJ00581-100	Discharger	Discharge for FLASH UNIT	
ZJ00585-100	LCD adjustment jig	EVF adjustment	Common with the FinePix S304
ZJ00631-100	LCD JIG COVER	EVF adjustment	Common with the FinePix S304
ZJ01134-100	QR Cord reader	MOUNT DATA Read	Common with the FinePix S8000fd
ZJ01936-100	NP-W126 Battery jig	調整全般	New jig
---	Power Cable Jig（9V）	General adjustment	Accessory sold in the market
---	AC Adapter（AC-9V）	General adjustment	Accessory sold in the market
☆ ~~FZ09420-100~~	~~DC COUPLER CP-W126~~	~~General adjustment~~	~~New jig~~
ZJ01971-100	X-Pro1 W PC Soft Ver.1.00	PC adjustment	Windows 2000 / XP English OS *1
ZJ01970-100	X-Pro1 SD BOOT Soft	[I] Main PWB Initialize	New jig *1
ZJ01849-100	FxHS20EXR/X100 Level chart	Level adjustment	Common with the FinePix X100
ZJ01935-100	X-Pro1 Level jig	Level adjustment	New jig
ZJ01858-100	Rotation axis Stand	Level adjustment	Common with the FinePix X100
---	FUJINON LENS XF18mm F2 R	Level adjustment	Products available from stock
---	FUJINON LENS XF35mm F1.4 R	Camera adjustment	Products available from stock
---	Laser telemeter	Level adjustment	Common with the FinePix X100*3 Maker : Makita, Model : SK308PZ When it's following specification equal to "SK308PZ", the Laser telemeter container is practicable. ・Precision : ±1mm/10m ・Line Point laser : X direction/Y direction

*1: Please downloaded from Web server (https://denhin.fujifilm.co.jp/csg_en/index.htm or http://fujifilm-di.intranets.com/).
*2: Select one the power cable suitable each country.
*3: Marketing product. Please purchase it in a general merchandising store.

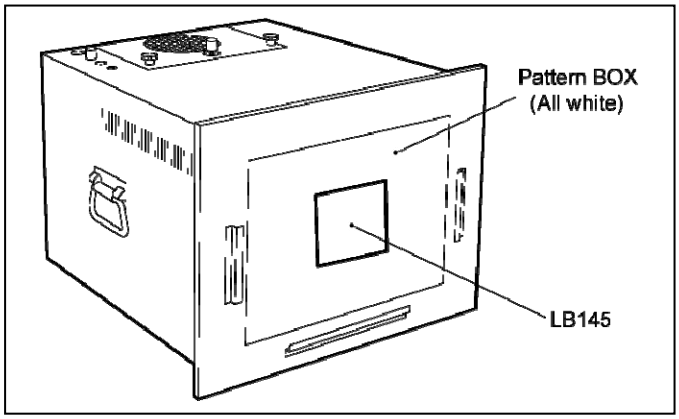
☆ Revised:13.April.2012

3-4. Calibration method of pattern box

<Use the pattern box for Camera adjustment>
Turn on the power supply in the pattern box.
Afterwards, wait for about ten minutes so that the source of light may stabilize.

(1) Brightness
160 ± 5cd/m2 (with LB145 filter)
No chart, center of pattern box
Minolta brightness meter LS-110 or equivalent
* Calibration method
Place the filter (LB145) against the pattern box. With the filter (LB145) in contact with the brightness meter, adjust the pattern box brightness to 160 ± 5cd/m^2.

(2) Color temperature
6100 ± 50K (with LB145 filter)
No chart, center of pattern box
Minolta color meter IIIF or equivalent
* Calibration method
Place the filter (LB145) against the pattern box. With the filter (LB145) in contact with the color temperature meter, adjust the pattern box color temperature to 6100 ± 50K.



Calibration method of pattern box

3-5. Adjustment software installation

3-5-1. Installation of DSC jig driver

* Since this camera uses the USB for communications with the personal computer, in order to start the PC adjustment software, [the DSC jig driver] needs to be installed in the personal computer beforehand.
* The DSC jig driver is the same as that for the FinePix S7000, so if this jig driver software is already installed in the personal computer, it is not necessary to install it. The procedure is given below.

<Step 1>
DSC jig driver (ZJ00684-100.ZIP) is downloaded from Web server (https://denhin.fujifilm.co.jp/csg_en/Adjustment.htm).

<Step 2>
Defrost the downloaded compression software

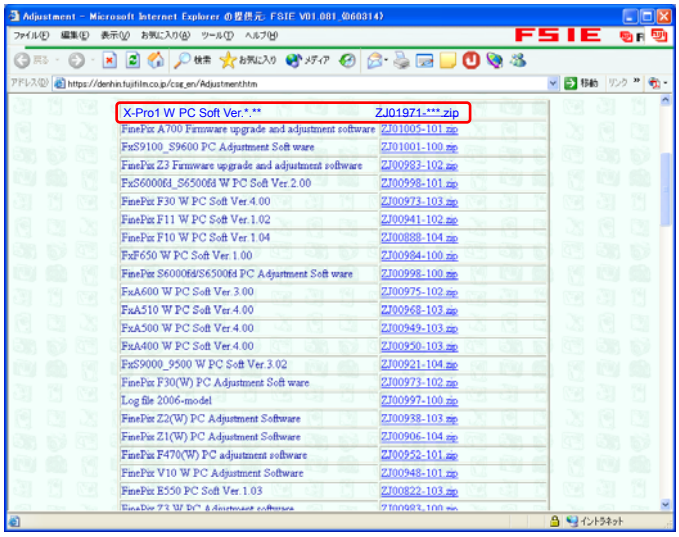
<Step 3>
Double-click setup.exe in the folder of defrosted ZJ00684-100 and install Fuji FILM DSC Jig Driver as follows.

<Step 4>
Install the software in [C:\ProgramFiles\Fjig] according to the instructions on the PC's screen.



3-5-2. Various downloading software decompressions, preservation methods, and notes

The PC adjustment softwares are in a specified Web server, and both of these are the compression of ZIP form files. Therefore, after downloading these compression files from the Web server, the decompression of the file is necessary. In the decompression software, if the decompression of the ZIP form can be done, any software is OK.
(Please prepare each one for the decompression software.)
The decompression and the preservation method of the PC adjustment software and the firmware are described to the following.
* The PC adjustment soft decompression and preservation method

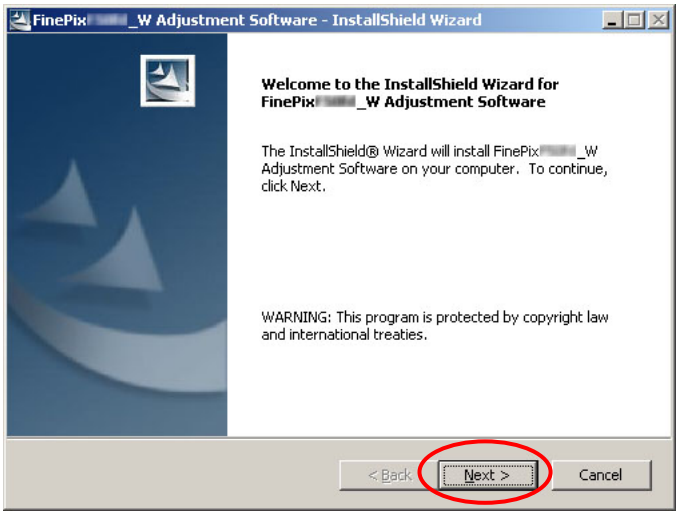


<Step1>
The adjustment software is downloaded from WEB, and software is installed in the PC.
We have uploaded the "**PC Adjustment Software (ZJ01971-***.zip) for X-Pro1_W**" on our website: (https://denhin.fujifilm.co.jp/csg_en/index.htm).

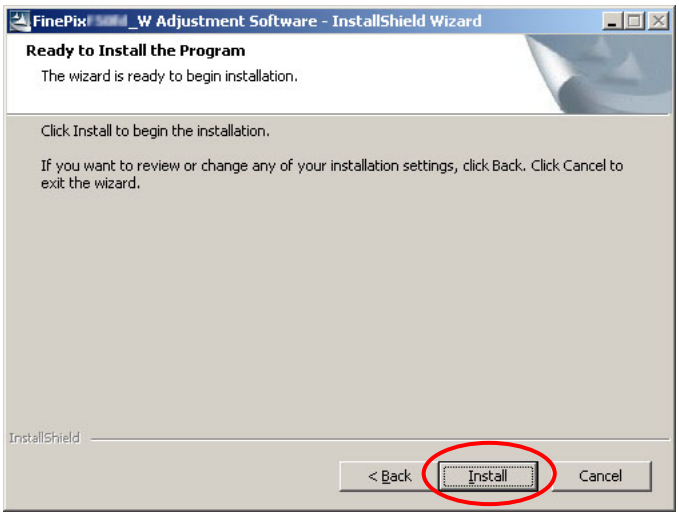
<Step2>
"**ZJ01971-***" is a compression of "ZIP type" file.
The "**X-Pro1_W**" folder can be done by extracting it by "Compression software".
Copy the "X-Pro1_W" folder to the "C" drive on the Adjustment PC.

<Step 3>
Double-click the "Setup_X-Pro1_W_***.exe" adjustment software installer file contained in the expanded ZJ01971-*** folder.

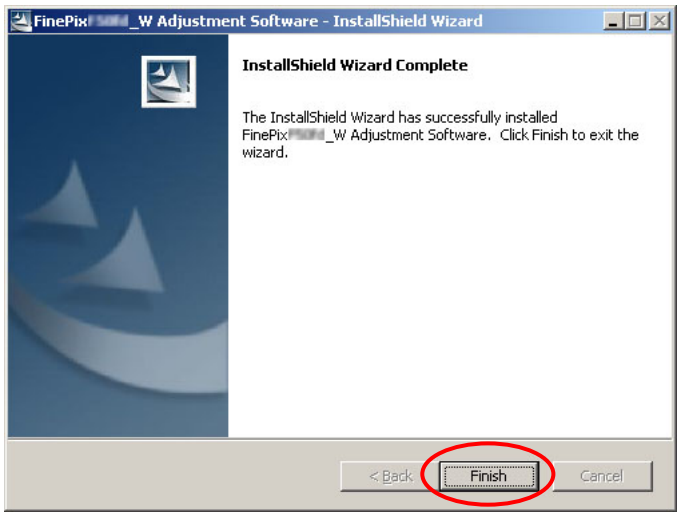
<Step 4>
When the window shown on the right appears, click [Next].



<Step 5>
When the window shown on the right appears, click [Install].
(Installation then begins.)

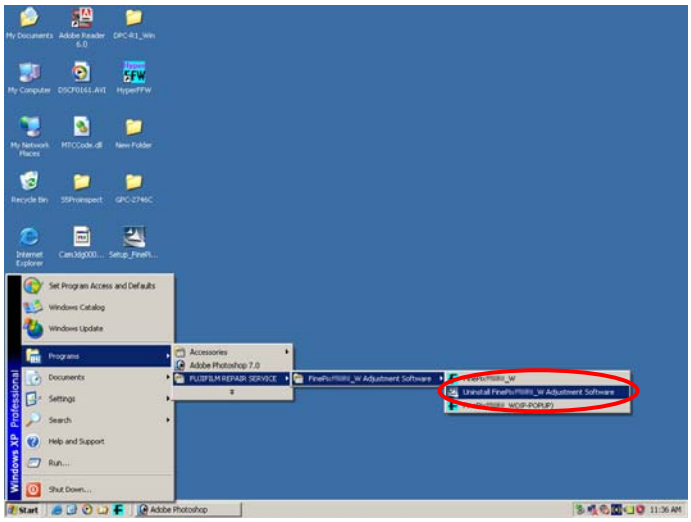


<Step 6>
When installation ends and the window shown on the right appears, click [Finish].

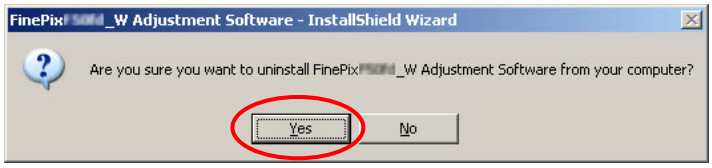


3-5-3. Uninstalling X-Pro1 W PC Soft Ver.*.**

<Step 1>
Click : Start
↓
Programs
↓
FUJIFILM REPAIR SERVICE
↓
X-Pro1_W Adjustment Software
↓
Uninstall X-Pro1_W Adjustment Software



<Step 2>
When the window shown on the right appears, click [Yes]. (Uninstallation then begins.)



<Step 3>
When uninstallation ends and the window shown on the right appears, click [OK].

* In some cases, uninstalling the software does not remove all the files. To completely remove all the files, delete the C:\X-Pro1_W folder after completing the uninstallation.

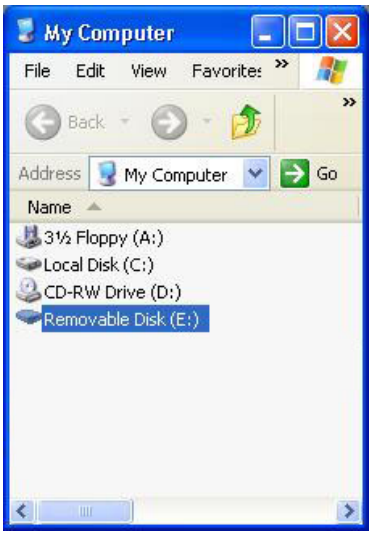


3-5-4. X-Pro1 SD BOOT card making

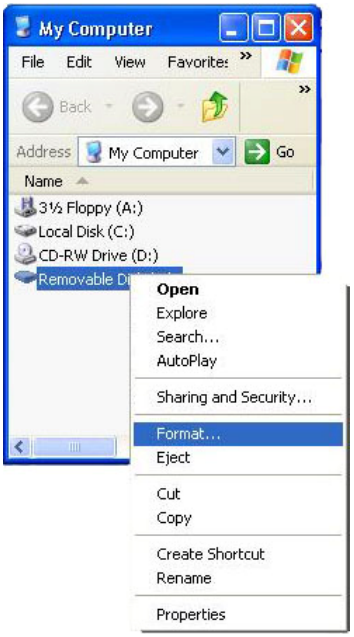
The SD BOOT softwares are in a specified Web server, and both of these are the compression of ZIP form files.
Therefore, after downloading these compression files from the Web server, the decompression of the file is necessary.
In the decompression software, if the decompression of the ZIP form can be done, any software is OK.
(Please prepare each one for the decompression software.)
The decompression and the preservation method of the PC adjustment software and the firmware are described to the following.
* The PC adjustment soft decompression and preservation method

<Step1>
Do format of SD card in a “FAT32” form.
Note:All data is erased when do Format of SD card.

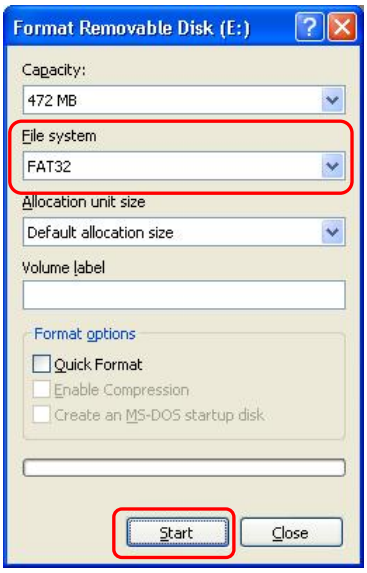
(1) Insert the SD card to the card reader.
(2) Open My Computer.



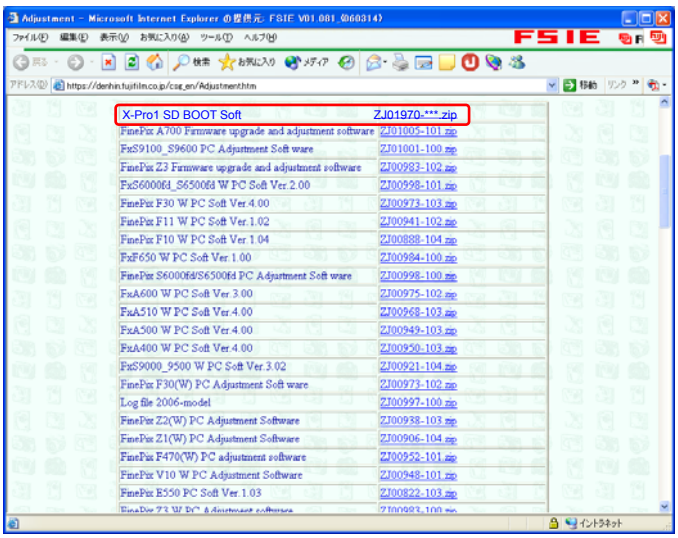
(3) Display a right-click menu of The card reader (Removable Disk).
(4) Choose Format among menu.



(5) Format window opens.
(6) Choose "FAT32" among "File system".
(7) Push "Start" button.
(8) Format starts.

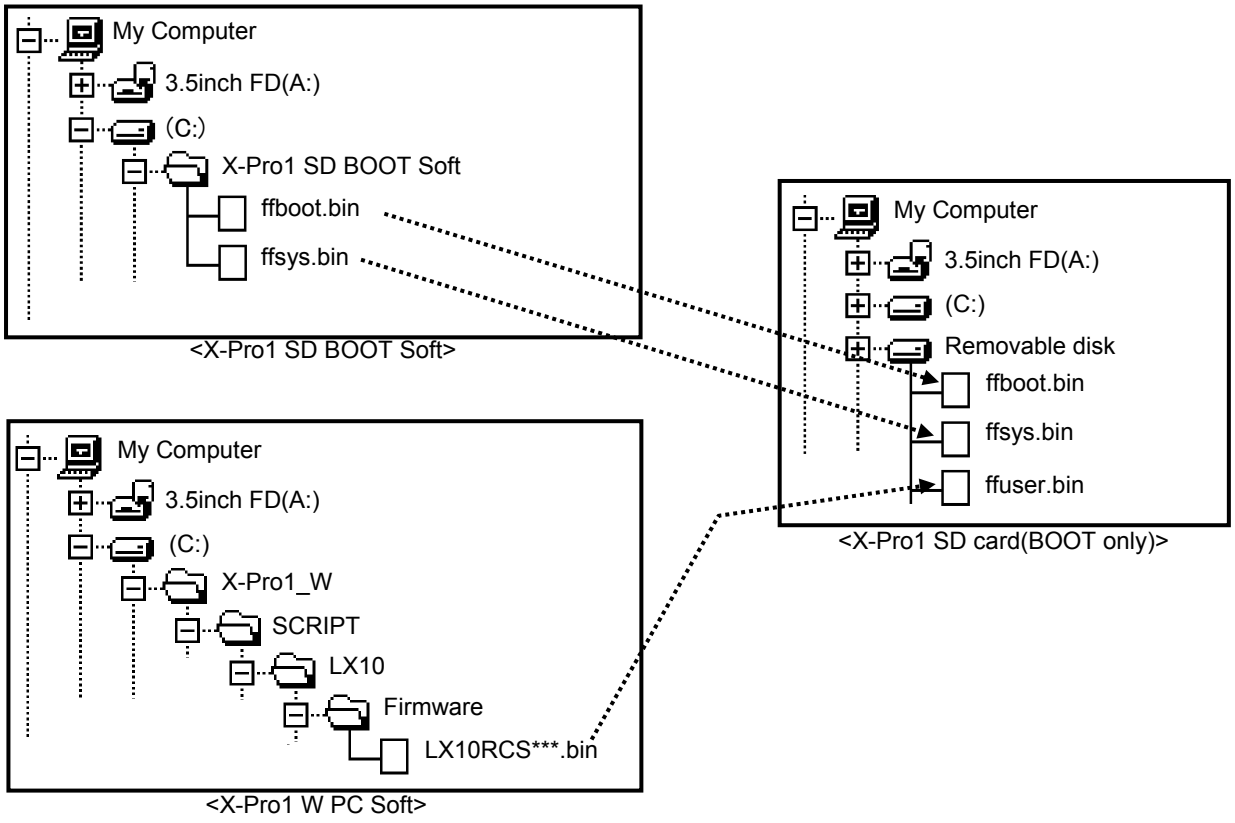


<Step2>
The SD BOOT software is downloaded from WEB.
We have uploaded the "**SD BOOT Software (ZJ01970-***.zip) for X-Pro1**" on our website:
(https://denhin.fujifilm.co.jp/csg_en/index.htm).



<Step3>
"**ZJ01970-***" is a compression of "ZIP type" file.
The "**X-Pro1 SD BOOT Soft**" folder can be done by extracting it by "Compression software".
Copy the "X-Pro1 SD BOOT Soft" folder to the "C" drive on the Adjustment PC.

<Step4>
Copy the "ffboot.bin" file and "ffsys.bin" file, which are stored in the extracted "X-Pro1 SD BOOT Soft" folder, under SD card.
Copy the "LX10RCS***.bin" file, which are stored in the extracted "X-Pro1_W\SCRIPT\LX10\Firmware" folder, rename to "ffuser.bin" under SD card.

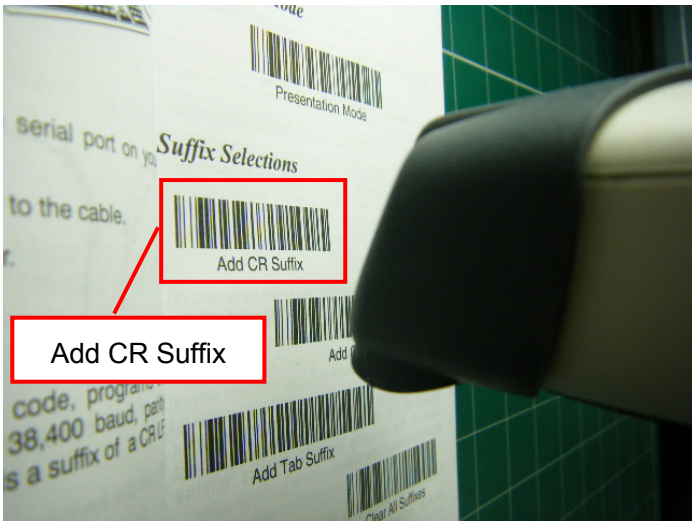


3-6. QR Code reader（ZJ01134-100） Setup

Initialize the QR code reader used to carry out the LENS DATA read.

1. Connect the QR code reader to the USB port on the PC.
2. Wait until the PC recognizes the QR code reader (the QR code reader emits a beep).
3. Use the QR code reader to scan in the "Add CR Suffix" provided in "Suffix Selection" in the instruction manual supplied with the QR code reader.
4. Scanning method
   (1) Hold the "Add CR Suffix" bar code so that it is lit by the aiming beam of the QR code reader (at a distance of around 5 cm).
   (2) Press the switch on the QR code reader.

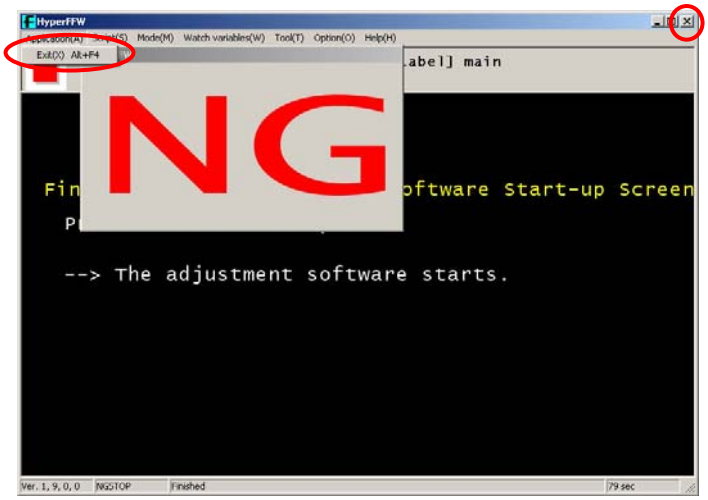
* The instruction manual is provided in several languages. Use the section provided in any language for the setting.
* Refer to the instruction manual for detailed information on using the QR code reader.



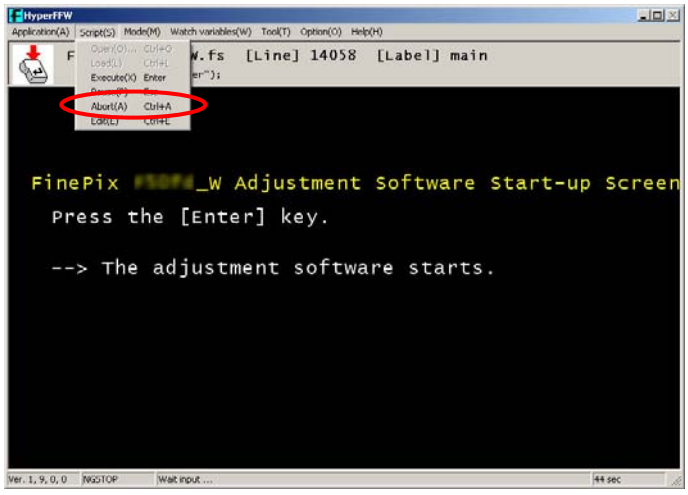
3-7. Using the Adjustment Software

Menu	Command	Details
Application	Exit (Alt+F4)	Terminate HyperFFW
Script	Open	Do not use
	Load	Do not use
	Execute	Do not use
	Pause	Do not use
	About (Ctrl+A)	Cancels execution
	Edit	Do not use
Mode	Do not use	
Watch variables	Do not use	
Tool	Do not use	
Option	Do not use	
Help	Do not use	

It is only possible to exit HyperFFW when the "x" circled in red can be clicked.



To exit HyperFFW during the adjustment, select About (Ctrl+A) and then select Exit (Alt+F4).

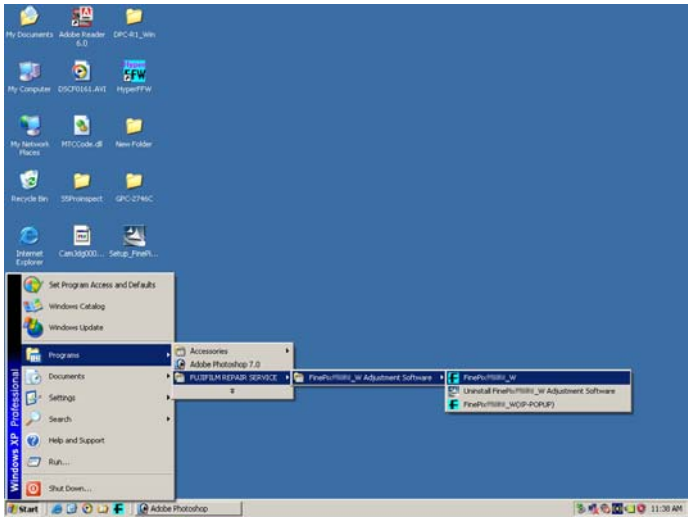


3-8. Launching the Adjustment Software

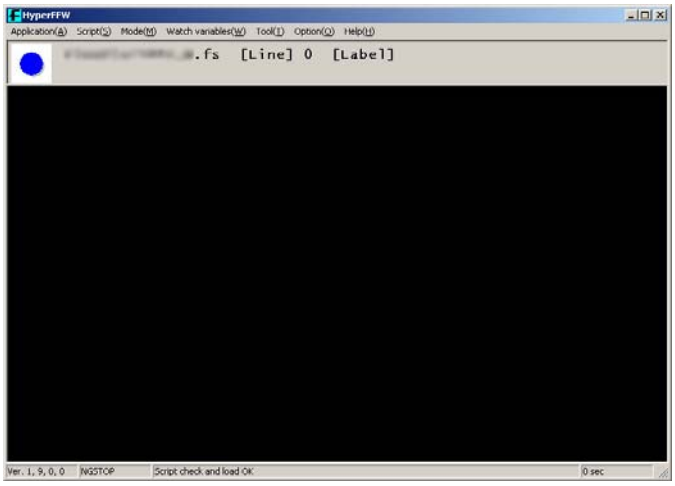
3-8-1. Launching the Adjustment Software when MAIN PWB Initialize

<Step 1>
Start
↓
Programs
↓
FUJIFILM REPAIR SERVICE
↓
X-Pro1_W Adjustment Software
↓
X-Pro1_W（BOOT）

The adjustments are the same whichever option is selected.



<Step 2>
If adjustment stops at the window shown on the right, press the [Enter] key to proceed.



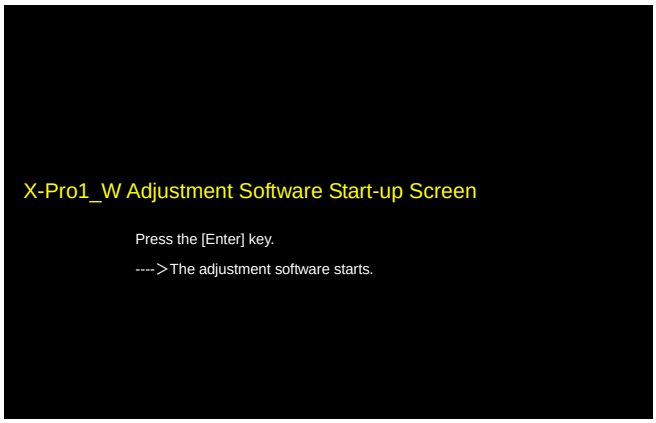
<Step 3>
[Repair site ID input]
The first time the adjustment software is launched, a window appears where you select the repair site ID recorded in the camera during End Setting.

In this window, select the appropriate repair site.
E.g.: USA -> Press "A" on the keyboard.

* Once this has been set, this window no longer appears on the PC.
* To reset the repair site ID, exit the adjustment software and then delete C:\X-Pro1_W\base.txt.

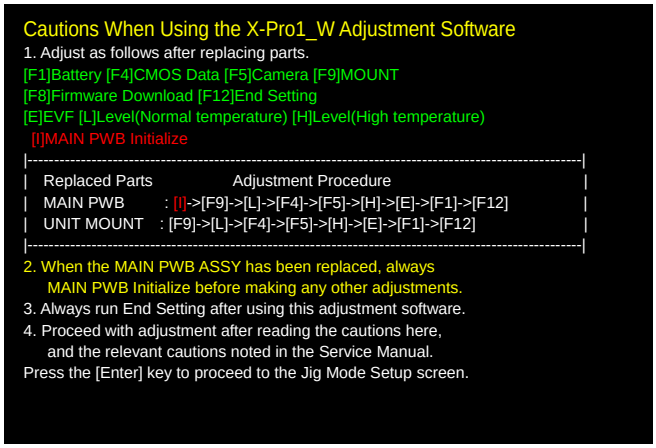


<Step 4>
[Adjustment Software Start-up Screen]
Check the details and then press the [Enter] key to proceed.



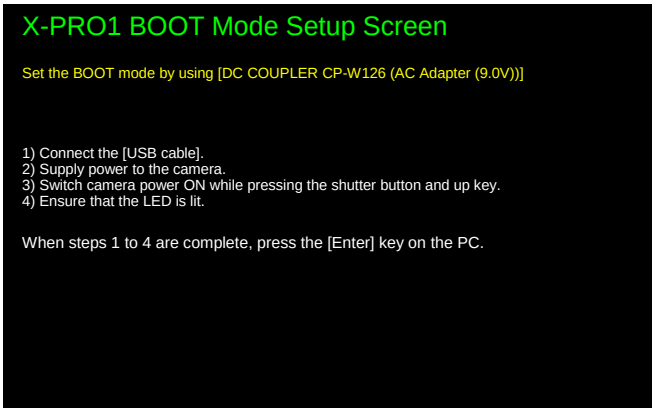
<Step 5>
[Notes on using the adjustment software]
1. Check the adjustment sequence needed when parts are replaced.
2. When the MAIN PWB ASSY has been replaced, carry out the "MAIN PWB Initialize [I]" procedure before starting the adjustment.
3. If you have used the adjustment software, always carry out End Setting.
4. Refer to the Service Manual for precautions and other detailed information on adjustment.

Check the details and then press the [Enter] key to proceed.

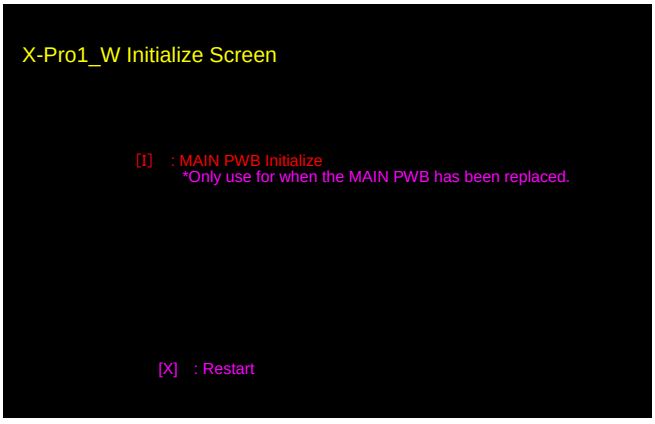


☆ **<Step 6>**
[BOOT Mode Setup Screen]
For other adjustments, use the "NP-W126 Battery jig " and supply power from the regulated power supply so that [7.20V (+0.02V/-0.00V)] is displayed on the digital voltmeter.
(1) Connect the camera to the PC using the "USB cable".
(2) Supply power to the camera.
(3) Switch camera power ON while pressing the shutter button and up key(I).
(4) Check that the LED is lit green

After completing steps (1) to (4), press the [Enter] key to proceed.



<Step 7>
[MAIN PWB Initialize Screen]
(1) Pressing the [X]:Restart key interrupts the adjustment software and returns you to the [Adjustment Software Start-up Screen].
However, the camera will not be recognized as a PTP or Mass Storage device.
(Press the [X] key while the camera is in communication with the PC. If you press the [X] key while the camera is disconnected, the [Adjustment Software Start-up Screen] may be slow to reappear and an error may appear in the adjustment software.)



☆ Revised:13.April.2012

3-8-2. Launching the Adjustment Software other then [I]:MAIN PWB Initialize

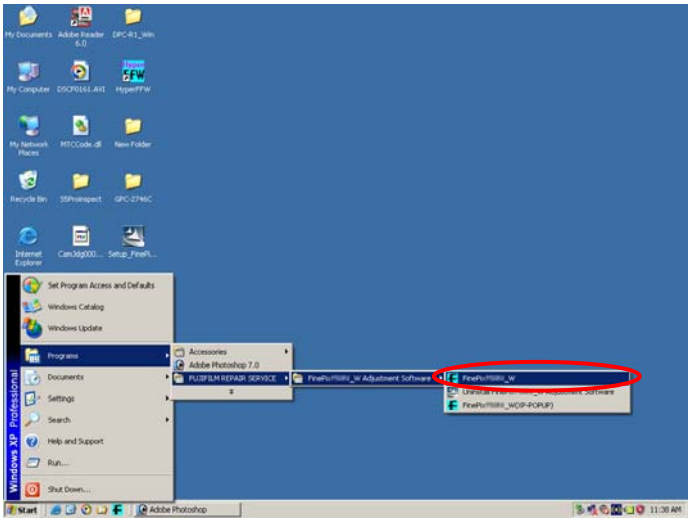
[Adjustment environment and precautions]

• When "OK" and "NG" window is displayed and adjusts the same camera again, switch camera power off once, and please switch camera power on with a jig mode again.

<Step 1>

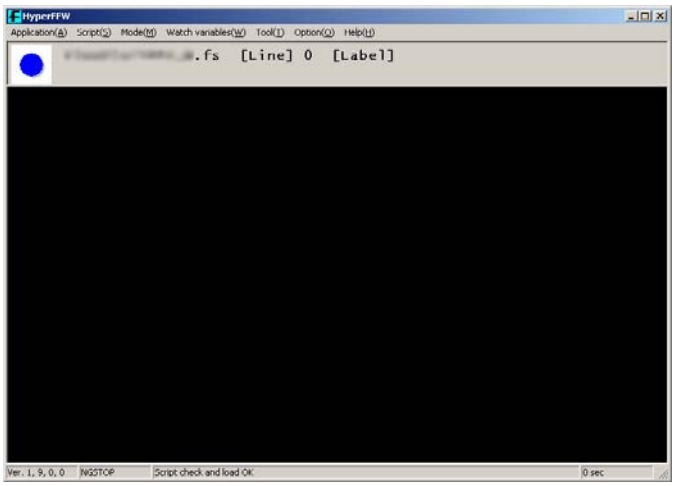
Click : Start
↓
Programs
↓
FUJIFILM REPAIR SERVICE
↓
X-Pro1_W Adjustment Software
↓
X-Pro1_W

The adjustments are the same whichever option is selected.



<Step 2>

If adjustment stops at the window shown on the right, press the [Enter] key to proceed.



<Step 3>

[Repair site ID input]

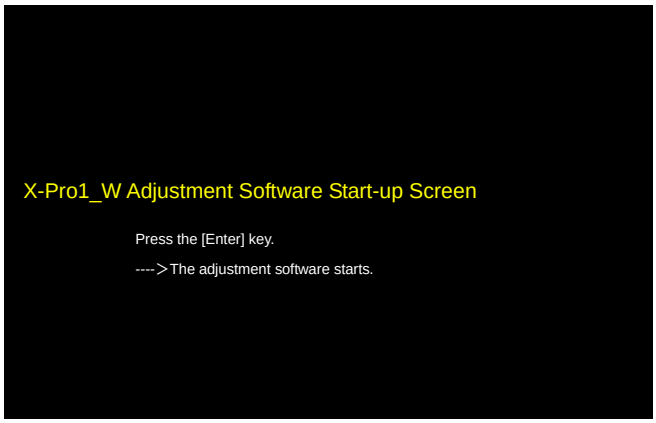
The first time the adjustment software is launched, a window appears where you select the repair site ID recorded in the camera during End Setting.

In this window, select the appropriate repair site.
E.g.: USA -> Press "A" on the keyboard.

* Once this has been set, this window no longer appears on the PC.
* To reset the repair site ID, exit the adjustment software and then delete C:\X-Pro1_W\base.txt.

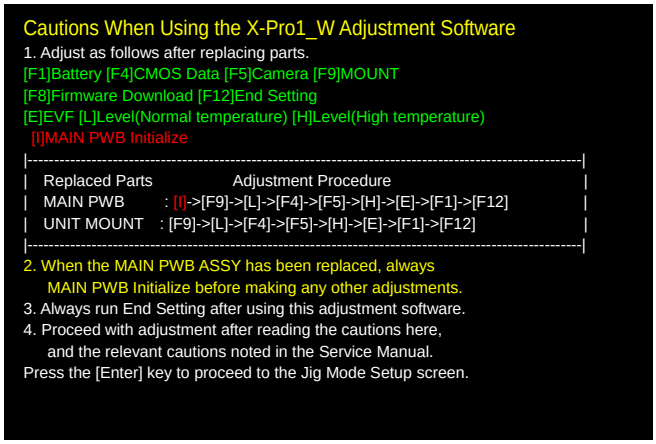


<Step 4>
[Adjustment Software Start-up Screen]
Check the details and then press the [Enter] key to proceed.



<Step 5>
[Notes on using the adjustment software]
1. Check the adjustment sequence needed when parts are replaced.
2. When the MAIN PWB ASSY has been replaced, carry out the "MAIN PWB Initialize [I]" procedure before starting the adjustment.
3. If you have used the adjustment software, always carry out End Setting.
4. Refer to the Service Manual for precautions and other detailed information on adjustment.

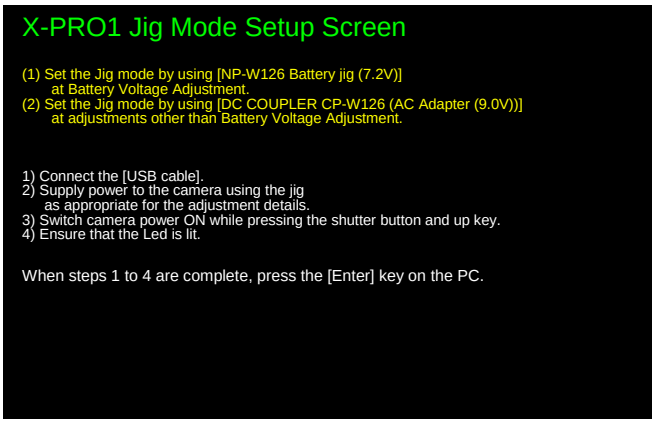
Check the details and then press the [Enter] key to proceed.



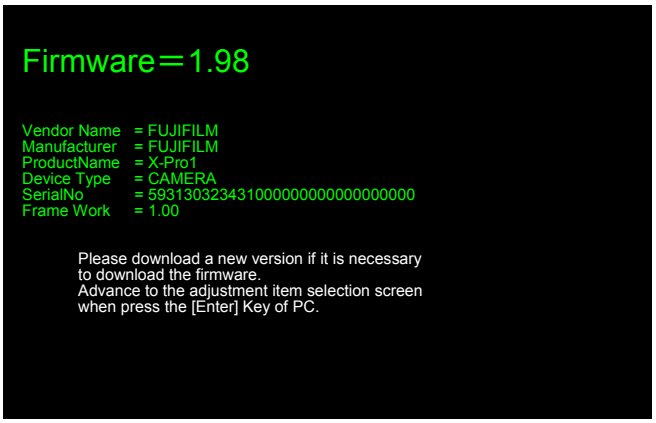
☆ **<Step 6>**
[Jig Mode Setup Screen]
(1) When carrying out Battery Voltage Adjustment, use the "NP-W126 Battery jig" and a regulated power supply set to 7.2 V.
(2) For other adjustments, use the "NP-W126 Battery jig" and supply power from the AC adapter (9V).

1. Connect the camera to the PC using the “USB cable”.
2. Use the appropriate jig according to the adjustment options to supply power.
3. Turn the camera on while holding down the shutter button and up key(I).
4. Check that the LED is lit green.

After completing steps 1 to 4, press the [Enter] key to proceed.



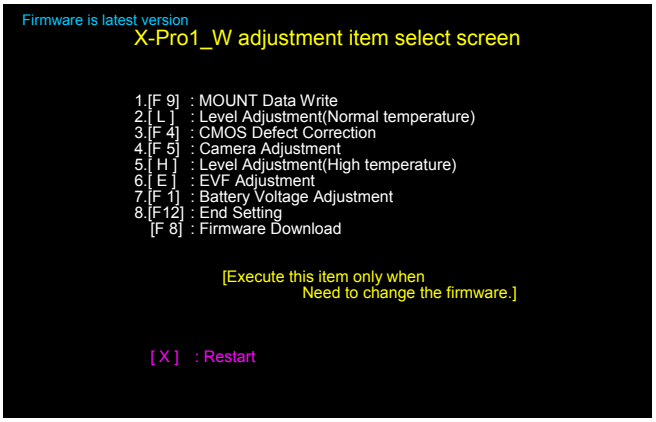
<Step 7>
[Displaying the firmware version]
If a firmware upgrade is required, separate instructions will be provided.
Check the details and then press the [Enter] key to proceed.



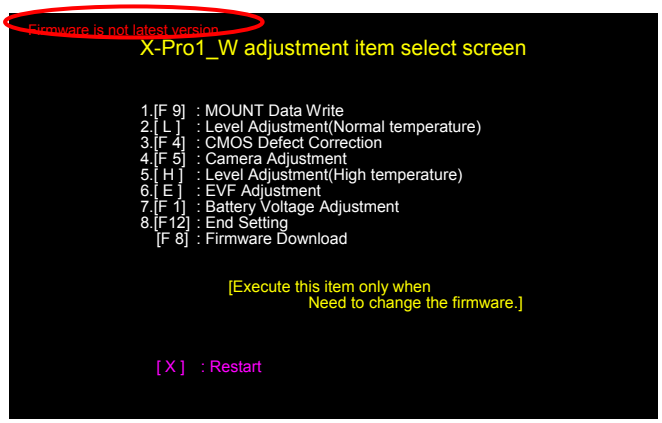
* If the camera's firmware is an older version than the firmware in the adjustment software, the window shown on the right appears. Check the details and then press the [Enter] key to proceed.



<Step 8>
[Adjustment item select screen]
(1) A firmware download may require other adjustments depending on the firmware version downloaded. If you download firmware, separate instructions will be provided for the adjustments required when the firmware is upgraded.
(2) When you have launched the adjustment software and exchanged data with the camera, you must carry out End Setting as the final step before returning the camera to the customer.
If you omit End Setting, the camera remains in JIG mode (camera repair mode) and will not be recognized by the PC (as a PTP or Mass Storage device) when the customer connects the camera to a PC in normal operation.
(3) Pressing the [X]:Restart key interrupts the adjustment software. After the "OK" screen display, returns you to the [Adjustment Software Start-up Screen].
(When adjust the same camera again, switch camera power off once, and please switch camera power on with a jig mode again.)
However, the camera will not be recognized as a PTP or Mass Storage device.
(Press the [X] key while the camera is in communication with the PC. If you press the [X] key while the camera is disconnected, the [Adjustment Software Start-up Screen] may be slow to reappear and an error may appear in the adjustment software.)



* If the camera's firmware is an older version than the firmware in the adjustment software, the "Firmware is not latest version" message appears in red in the top-left corner of the window.
If the firmware is the latest version (or the same as the adjustment software version), "Firmware is latest version" is displayed in blue.



3-9. [I]:MAIN PWB Initialize

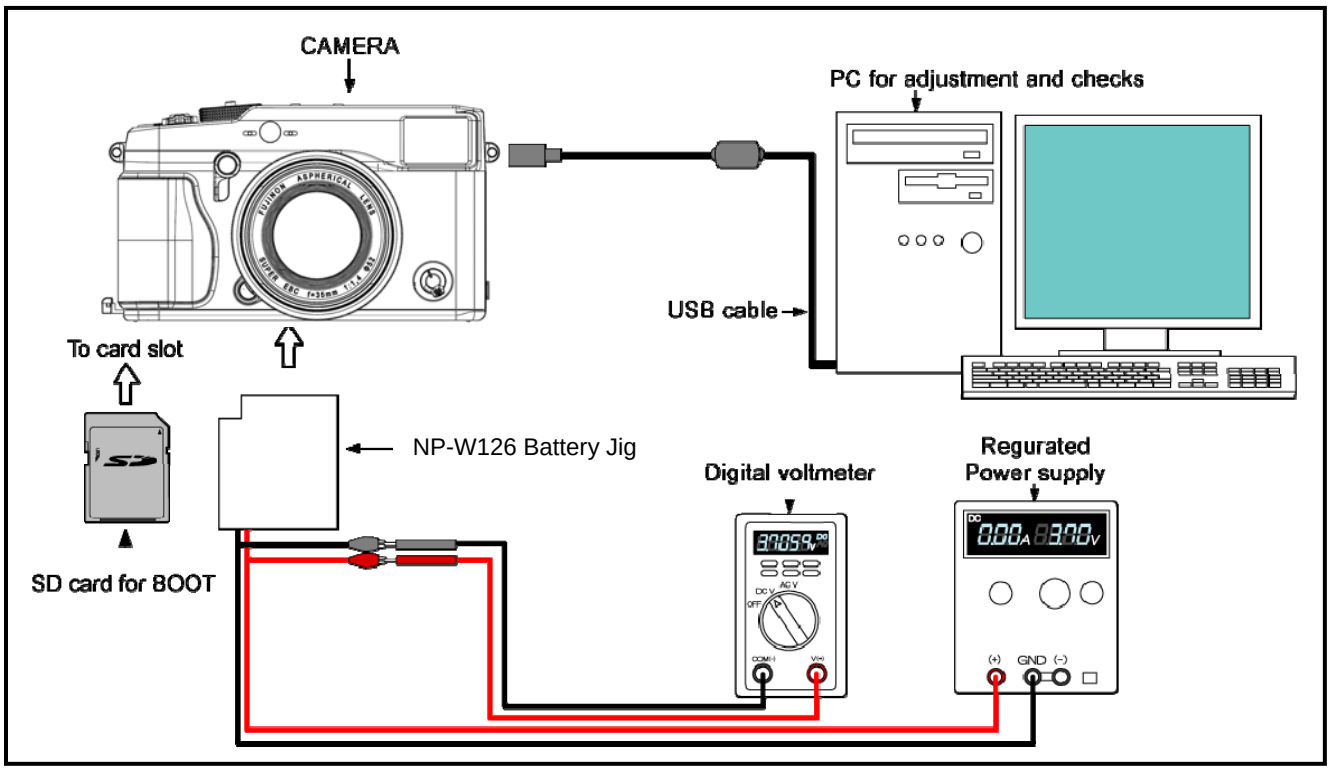
[Adjustment environment and precautions]

- When the MAIN PWB ASSY has been replaced, always carry out the "MAIN PWB Initialize" procedure before performing any other adjustments. The adjustments cannot be made correctly without first carrying out the "MAIN PWB Initialize" procedure.
- Use the SD card (for BOOT).
- If you carry out the "MAIN PWB Initialize" procedure when the MAIN PWB ASSY has not been replaced, all adjusted data will be reset to the default settings. In this event, carry out all the adjustments (excluding Firmware Download).
- Because the internal memory is formatted during the "MAIN PWB Initialize" procedure, take particular not to erase customer data when working on repair products.

[Required items]

	SD card(BOOT only)	Copy ZJ01970-100 and Firmware to SD card
☆	NP-W126 Battery jig	ZJ01936-100

<Settings for MAIN PWB Initialize>



<Step 1>
[Firmware Download]

(1) Insert the SD card(BOOT only) to the card slot.
(2) Connect Power cable (or jig).
(3) Switch camera power ON while pressing the Fn button and Command lever .
(4) Ensure that the LED. [GREEN blinking] -> [RED lighting] -> [ORANGE lighting] -> [RED/GREEN blinking] -> [GREEN lighting]
(5) Turn the camera off.
(6) Remove the Power cable (or jig) from the camera.
(7) Remove the SD card from the camera.

*Does not USB cable during Firmware Download.

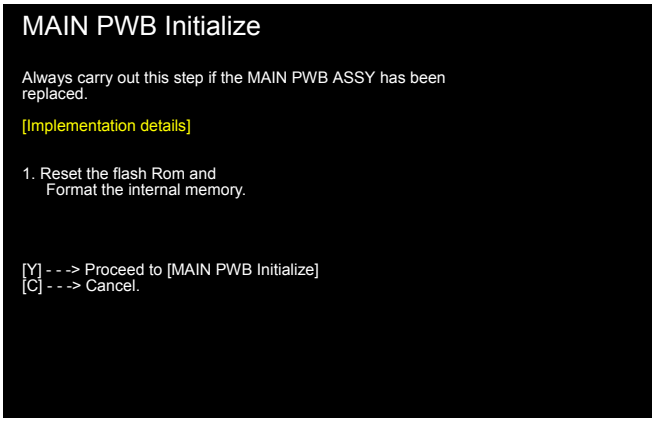
☆ Revised:13.April.2012

<Step 2>
(1) Connect Power cable (or jig).
(2) Connect the camera to the PC using the “USB cable”.
(3) Switch camera power ON while pressing the shutter button and up key.

In the adjustment item select screen, select [I]:MAIN PWB Initialize.

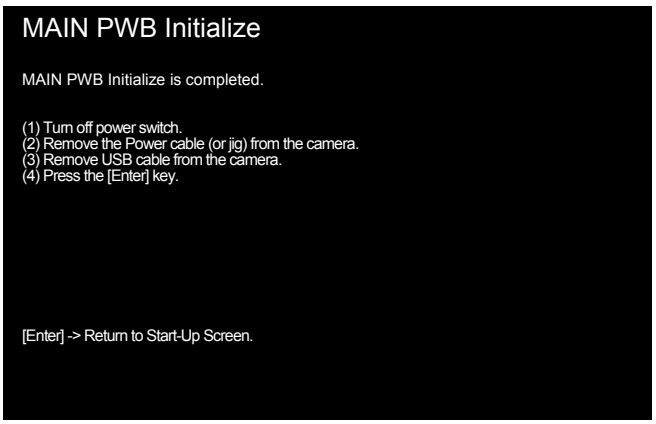
<Step 3>
[Checking MAIN PWB Initialize]
Implementation details
(1) Reset the flash ROM and format the internal memory.

Press the [Y] key to begin "MAIN PWB Initialize".
Press the [C] key to cancel the procedure.



<Step 4>
[Ending MAIN PWB Initialize]
(1) Turn the camera off.
(2) Remove the Power cable (or jig) from the camera.
(3) Remove USB cable from the camera.
(4) Press the [Enter] key.

Press the [Enter] key to return to the Adjustment Software Start-up Screen.



3-10. [F9]:Mount Data Write

[Adjustment environment and precautions]
• Do not vibrate the camera during adjustment.

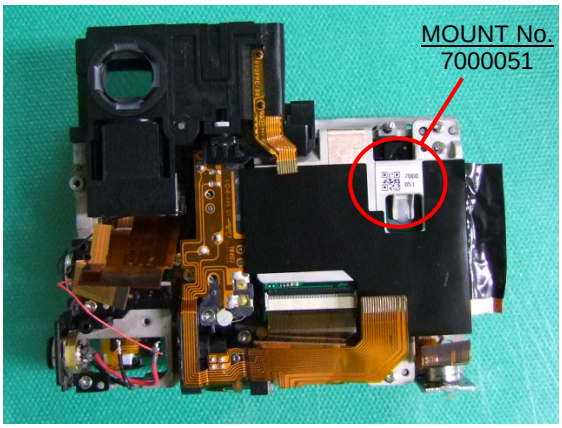
[Required items]

Camera fixing jig	If there are no problems with the adjustment environment, a tripod or X-Y stage can be used.
Mount data for X-Pro1	ZJ01979-100
☆ NP-W126 Battery jig	ZJ01936-100

[Method of acquiring MOUNT data]
MOUNT data is required when the CONST ASSY FRONT or UNIT MOUNT or Y-10241MAIN PWB ASSY is replaced.

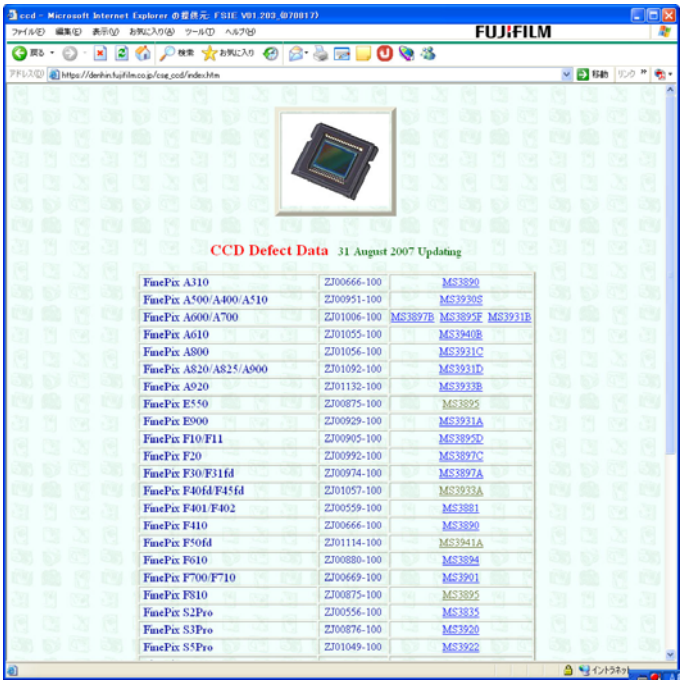
1. When you exchange UNIT MOUNT
   --> It is attached to UNIT MOUNT.

2. When you exchange CONST ASSY FRONT or Y-10241MAIN PWB ASSY
   --> Creating a MOUNT data floppy disk when the CONST ASSY FRONT or Y-10241MAIN PWB ASSY has been replaced.
   * The following example assumes the use of the serial No. shown at right.



<Step 1>
Read the serial number of UNIT MOUNT.
The numbers shown at right are as follows.
7000051(7 digits)
The name of the MOUNT data file containing this number is "**7000051.txt**".

Cautions:
1. The MOUNT data file extension is "**txt**". Depending upon Windows settings, this extension may not be displayed. In this case, change the settings to ensure that it is displayed.
2. In addition to numbers, letters are also used in the MOUNT serial No. The data file name is instructed in the same manner in this case.
3. Ensure that the MOUNT serial No. is read correctly. If the file name is read incorrectly MOUNT data for another camera will be loaded when this file is used.



<Sample image>

☆ Revised:13.April.2012

<Step 2>
Download the ZIP file of top four digits from Web server (https://denhin.fujifilm.co.jp/csg_ccd/index.htm).
Open [ZJ01979-100] in the LENS data folder, and download “LX10Mount_7000.zip”.

<Step 3>
Decompress “LX10Mount_7000.zip”.
--> “**7000051.txt**” is made.

<Step 4>
Insert a writable floppy disk into the floppy disk drive on the computer.

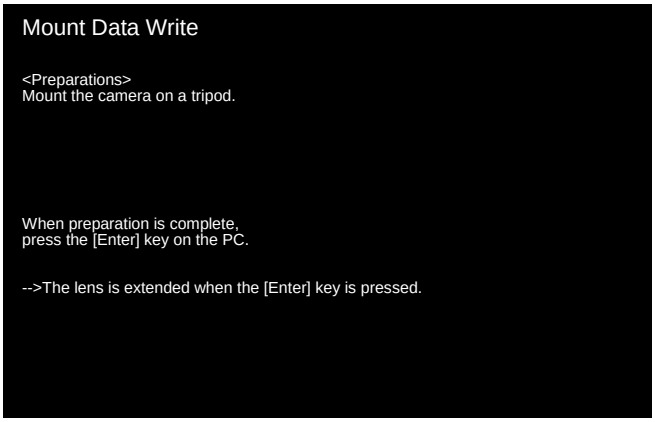
<Step 5>
Search for “**7000051.txt**”, and copy it onto the floppy disk.
Caution: Do not create a folder on the floppy disk when copying the data.

● *When you do not use the floppy disk, you can do the following way.

<Step 4>
Confirm the following folder on C drive.
C:\X-Pro1_W\MOUNT_DATA

<Step 5>
Search for “**7000051.txt**”, and copy it onto the folder “C:\X-Pro1_W\MOUNT_DATA”.

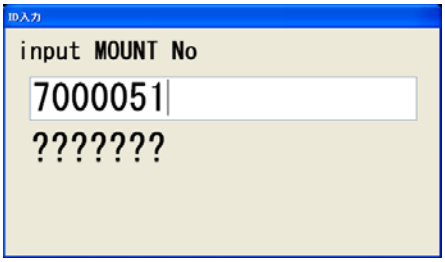
<Step 6>
Select [F9]:Mount Data Write in the adjustment item select screen.



<Step 7>
[Preparing the Mount Data Write]
Mount the camera on a tripod.

When you have completed the preparations, press the [Enter] key to proceed. Take care not to vibrate the camera during subsequent adjustment.

<Step 8>
[Lens number input]
(1) Enter the 7-digit Mount number of camera in the input box.



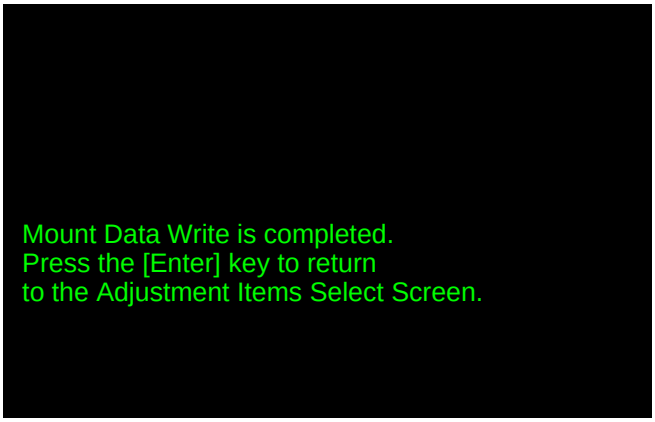
● *When you do not use the floppy disk, you can skip (2).

(2) Insert the floppy disk containing the Mount data into the floppy disk drive.

When you have completed the preparations, press the [Enter] key to proceed.

<Step 9>
[Ending Mount Data Write]

After completing the adjustments, press the [Enter] key to proceed. The adjustment item select screen reappears.



● Revised: 26.June.2012

3-11. [L]:Level Adjustment(Normal temperature)

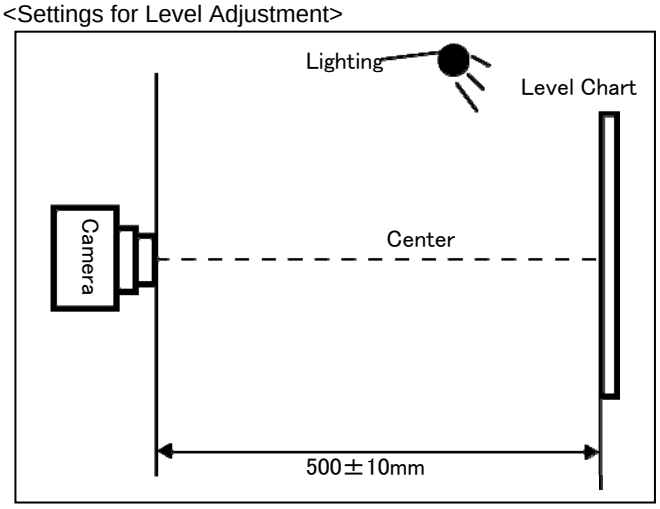
[Adjustment environment and precautions]

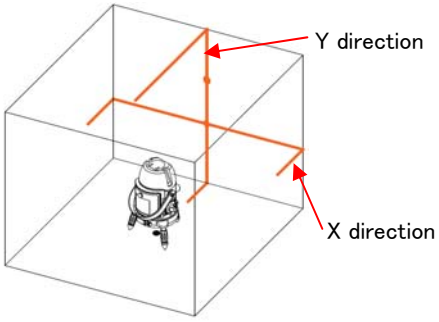
- Adjust the lighting to give a brightness of 9.0 to 11.0 EV on the Level chart surface..
- Because the likelihood of adjustment failure increases as the internal camera temperature rises, when adjustment fails you should first try turning the camera off for a while and then carrying out the adjustment again.
- When removing / mounting jig lens, please note the dust from entering.

[Required items]

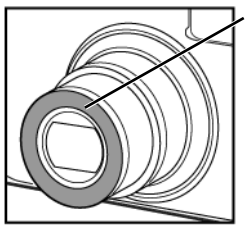
Camera fixing jig	If there are no problems with the adjustment environment, a tripod or X-Y stage can be used.
Lighting	Illuminate the chart
FxHS20EXR/X100 Level Chart	ZJ01849-100
X-Pro1 Level jig	ZJ01935-100
Rotation axis Stand	ZJ01858-100
☆ NP-W126 Battery jig	ZJ01936-100
FUJINON LENS XF18mm F2 R	---
Laser telemeter	Marketing product. Please purchase it in a general merchandising store. Maker : Makita, Model : SK308PZ When it's following specification equal to "SK308PZ", the Laser telemeter container is practicable. ·Precision : ±1mm/10m ·Line Point laser : X direction/Y direction

<Settings for Level Adjustment>



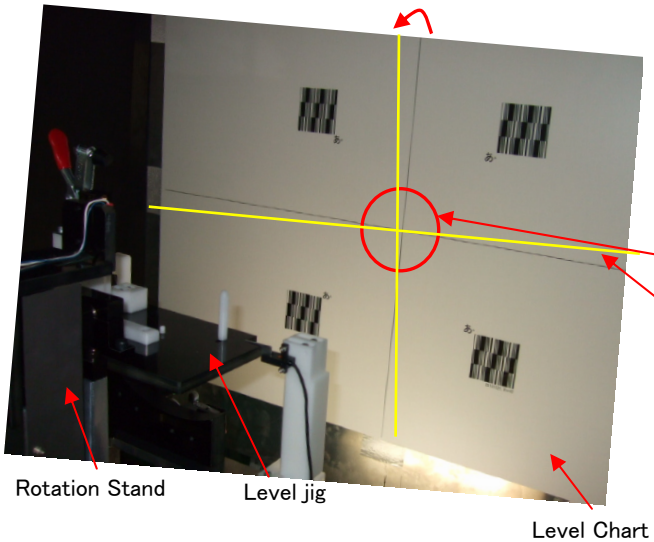


＜Line Point laser movement of Laser telemeter＞



This gray section is the “lens-face”.

<Settings for Level Chart>



Adjust it in the following procedure at the time of "Level jig zero degree" so that "Level Chart" becomes level.

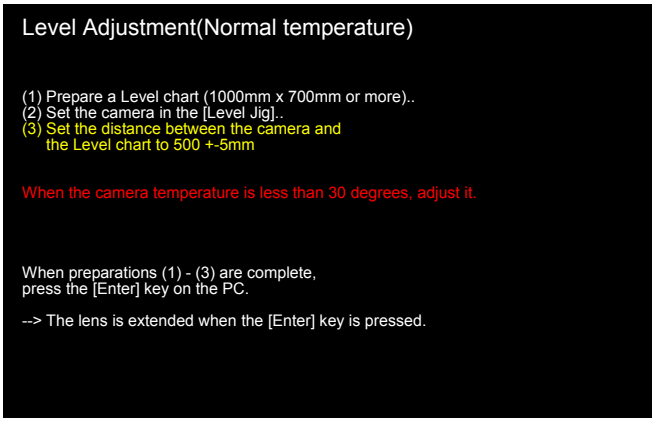
(1) Setting Rotation Stand in the horizontal place.
(2) Setting of Level jig in Rotation Stand. Setting of Level jig at the time of "0 degrees" to become level.
(3) Adjust the positions so that the distance from the level chart to the camera's lens-face is 500 +-5 mm.
(4) The Chart center comes to the LCD center.
(5) Setting Laser telemeter in the horizontal place.
(6) Irradiate Line Point in Chart from telemeter.
(7) Turn Chart to Line Point.
(8) The chart center confirms a thing in the LCD center.

☆ Revised:13.April.2012

<Step 1>
In the adjustment item select screen, select [L]: Level Adjustment(Normal temperature).

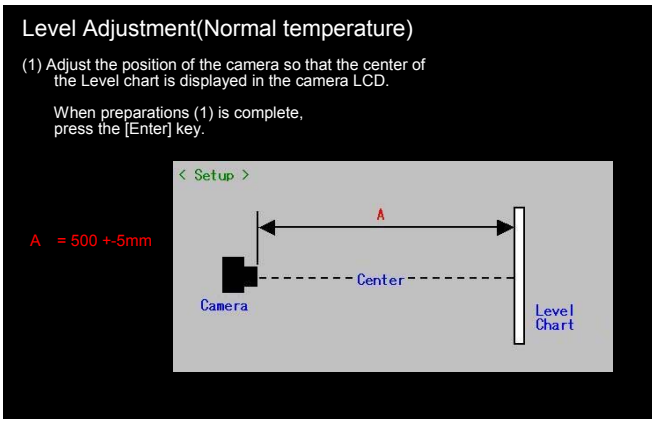
<Step 2>
[Preparing for Level Adjustment(Normal temperature)]
(1) Prepare the Level chart.
(2) Mount the camera on the Level jig so that it is facing the level chart.
(3) Adjust the positions so that the distance from the level chart to the camera's lens-face is 500 +-5 mm.

When you have completed the preparations, press the [Enter] key to proceed.



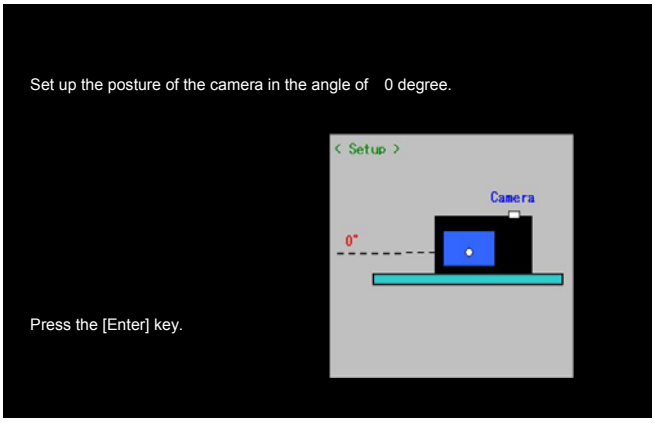
<Step 3>
[Level Adjustment(Normal temperature) initialization]
(1) Set the camera and Level chart to designated distance.

When you have completed the preparations, press the [Enter] key to proceed.



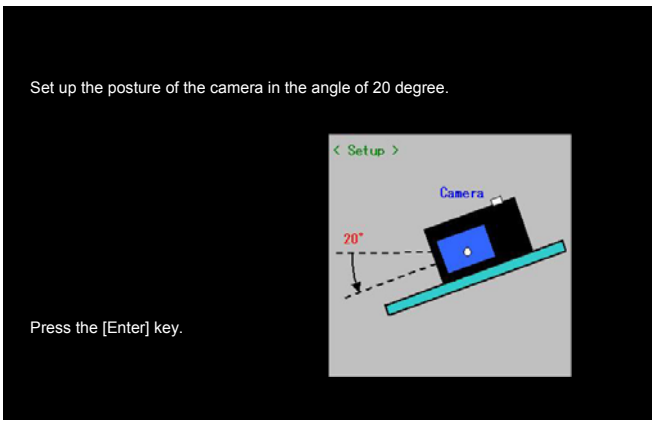
<Step 4>
(1) Set the Level jig in 0 degree.

When you have completed the preparations, press the [Enter] key to proceed.



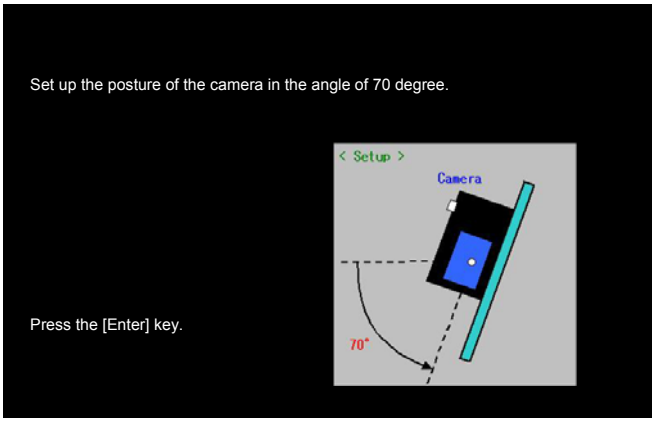
<Step 5>
(1) Set the Level jig in 20 degree.

When you have completed the preparations, press the [Enter] key to proceed.



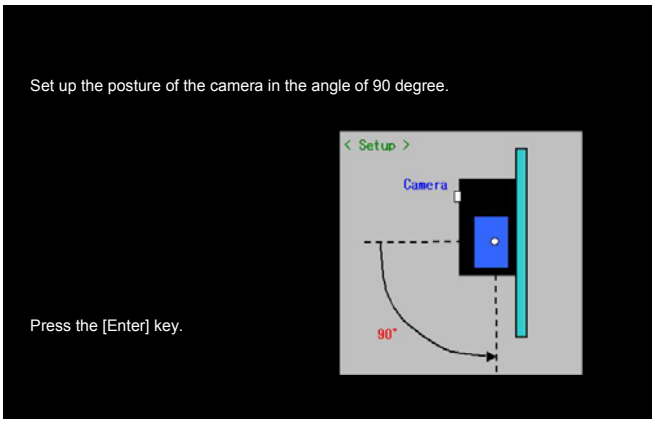
<Step 6>
(1) Set the Level jig in 70 degree.

When you have completed the preparations, press the [Enter] key to proceed.



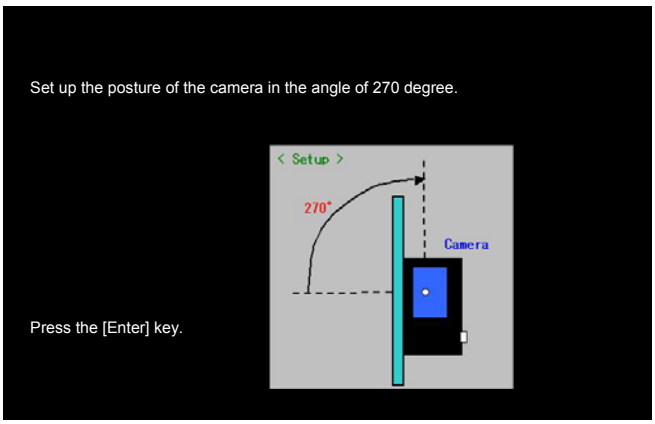
<Step 7>
(1) Set the Level jig in 90 degree.

When you have completed the preparations, press the [Enter] key to proceed.



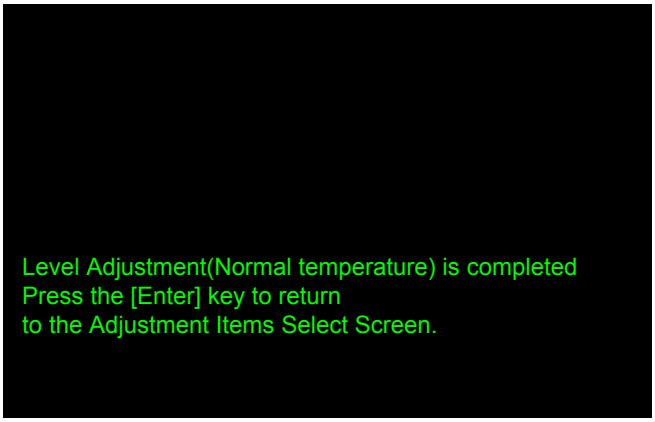
<Step 8>
(1) Set the Level jig in 270 degree.

When you have completed the preparations, press the [Enter] key to proceed.



<Step 9>
[Ending Level Adjustment(Normal temperature)]

After completing the adjustments, press the [Enter] key to proceed.
The adjustment item select screen reappears.



3-12. [F4]:CMOS Defect Correction

[Adjustment environment and precautions]

- Darken the surroundings during adjustments (a darkroom environment is ideal). Alternatively, prepare a box that is painted black on the inside and perform the adjustments with the camera enclosed in the box. Please be careful so that a fluorescent light does not enter.
- Darken the surroundings as much as possible for the adjustments.
- Do not vibrate the camera during adjustment.
- Because the likelihood of adjustment failure increases as the internal camera temperature rises, when adjustment fails you should first try turning the camera off for a while and then carrying out the adjustment again.
- Check that Level Adjustment(Normal temperature) have finished.
- When removing / mounting jig lens, please note the dust from entering.

[Required items]

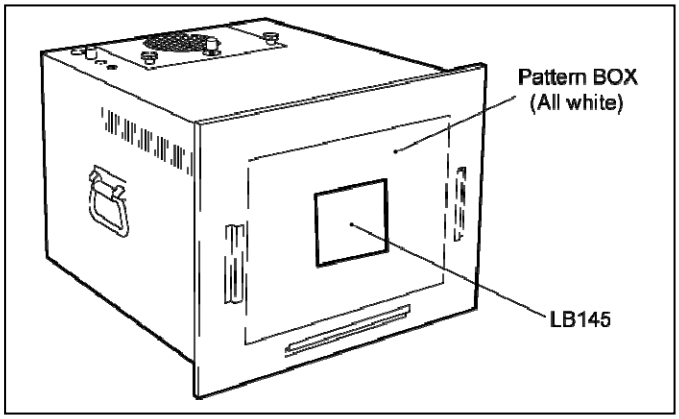
	Camera fixing jig	If there are no problems with the adjustment environment, a tripod or X-Y stage can be used.
	PTB450F	Pattern box
	LB145 filter	ZJ00699-100
☆	NP-W126 Battery jig	ZJ01936-100
	FUJINON LENS XF35mm F1.4 R	---

<Use the pattern box for Camera adjustment>

Turn on the power supply in the pattern box.
Afterwards, wait for about ten minutes so that the source of light may stabilize.

(1) Brightness
160 ± 5cd/m^2 (with LB145 filter)
No chart, center of pattern box
Minolta brightness meter LS-110 or equivalent
* Calibration method
Place the filter (LB145) against the pattern box. With the filter (LB145) in contact with the brightness meter, adjust the pattern box brightness to 160 ± 5cd/m^2.

(2) Color temperature
6100 ± 50K (with LB145 filter)
No chart, center of pattern box
Minolta color meter IIIF or equivalent
* Calibration method
Place the filter (LB145) against the pattern box. With the filter (LB145) in contact with the color temperature meter, adjust the pattern box color temperature to 6100 ± 50K.



Calibration method of pattern box

<Step 1>

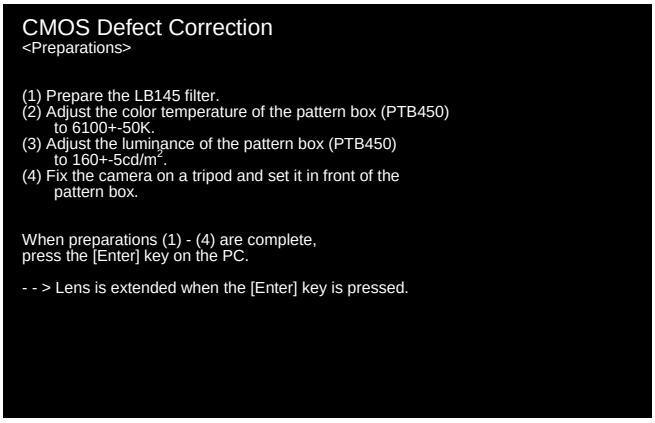
Select [F4]: CMOS Defect Correction in the adjustment item select screen.

<Step 2>

[Preparing the CMOS Defect Correction pattern box]

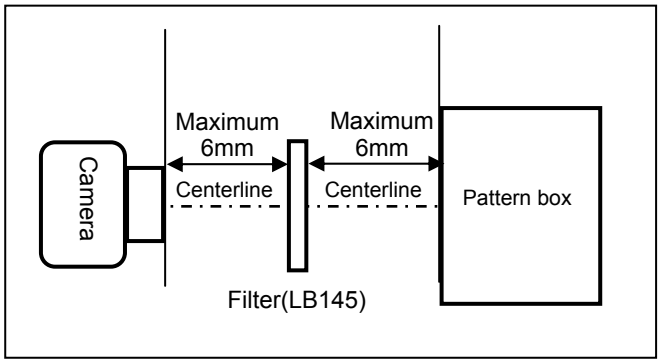
(1) Stick the LB145 filter in the center of the pattern box.
(2) Use a color temperature meter to set the color temperature to 6100 ± 50K.
(3) Use a luminance meter to set the luminance to 160 ± 5 cd/m^2.
* Because adjustments to one setting will skew the other setting, the color temperature and luminance should be cross-checked a number of times. (Repeat steps 2 and 3 several times.)
(4) Remove the LB145 filter and fix the camera onto the XY stage or tripod so that it is facing the pattern box.

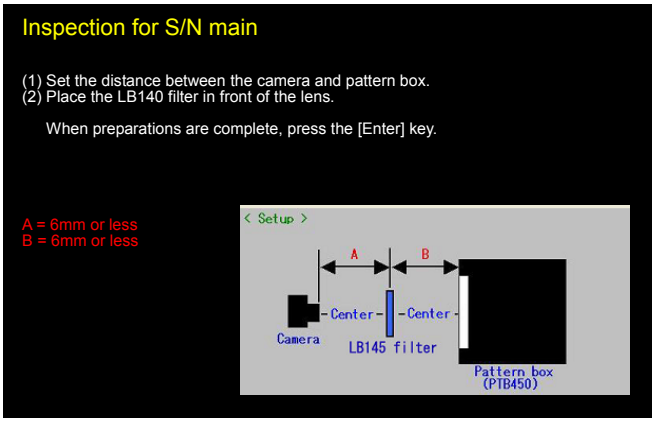
When you have completed the preparations, press the [Enter] key to proceed.



☆ Revised:13.April.2012

<Step 3>
[Inspection for S/N main]

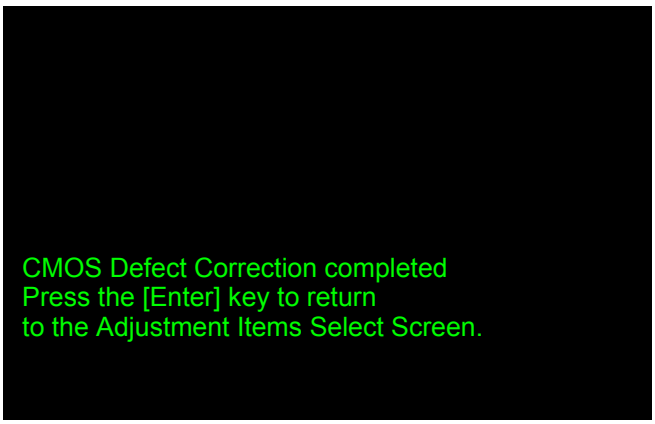




(1) Set up the camera and the LB145 filter at the specified distances.
(2) Position the LB145 filter at the designated location in front of the lens.

When you have completed the preparations, press the [Enter] key to proceed.
Take care not to vibrate the camera during subsequent adjustment.

<Step 4>
[Ending CMOS Defect Correction]
After completing the adjustments, press the [Enter] key to proceed.
The adjustment item select screen reappears.



3-13. [F5]:Camera Adjustment

[Adjustment environment and precautions]

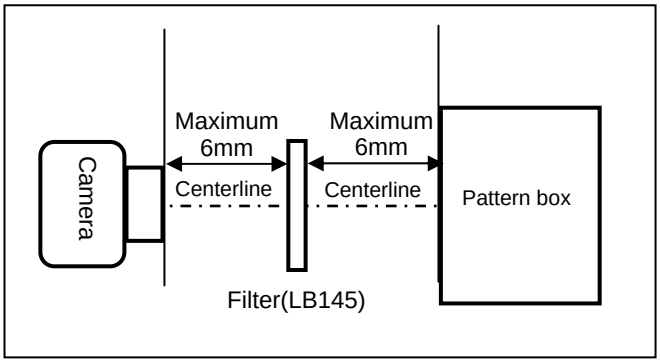
- Darken the surroundings during adjustments (a darkroom environment is ideal). Alternatively, prepare a box that is painted black on the inside and perform the adjustments with the camera enclosed in the box. Please be careful so that a fluorescent light does not enter. Please be careful so that a fluorescent light does not enter.
- Calibrate the pattern box before the adjustment.
- Any soiling on the pattern box dispersion plate or reflective plate will result in unevenness in the lighting and cause errors during adjustment. Take care to carry out periodic pattern box cleaning and testing.
- Check that Level Adjustment(Normal temperature) and CMOS Defect Correction have finished.

• When removing / mounting jig lens, please note the dust from entering.

[Required items]

Camera fixing jig	If there are no problems with the adjustment environment, a tripod or X-Y stage can be used.
PTB450F	Pattern box
LB145 filter	ZJ00699-100
NP-W126 Battery jig	ZJ01936-100
FUJINON LENS XF35mm F1.4 R	---

<Settings for Camera Adjustment>

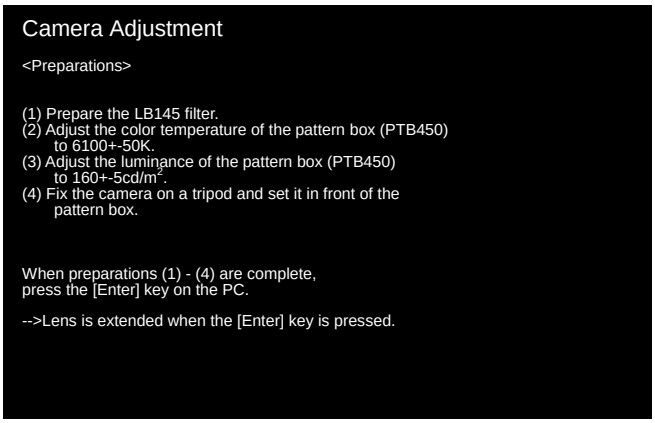


<Step 1>
In the adjustment item select screen, select [F5]: Camera Adjustment.

<Step 2>
[Preparing the camera adjustment pattern box]

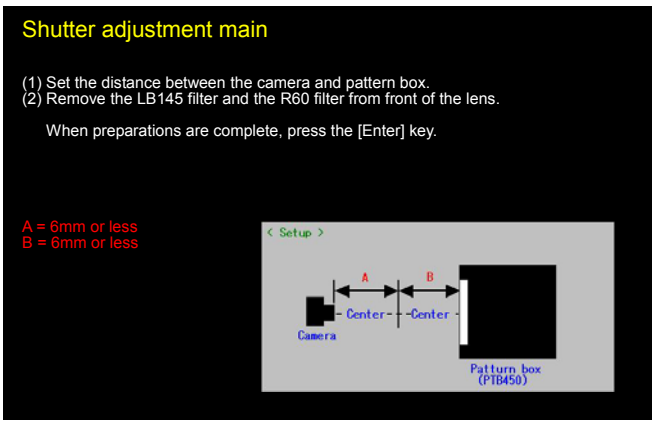
(1) Stick the LB145 filter in the center of the pattern box.
(2) Use a color temperature meter to set the color temperature to 6100 ± 50K.
(3) Use a luminance meter to set the luminance to 160 ± 5 cd/m^2.
    * Because adjustments to one setting will skew the other setting, the color temperature and luminance should be cross-checked a number of times. (Repeat steps 2 and 3 several times.)
(4) Remove the LB145 filter and fix the camera onto the XY stage or tripod so that it is facing the pattern box.

When you have completed the preparations, press the [Enter] key to proceed.



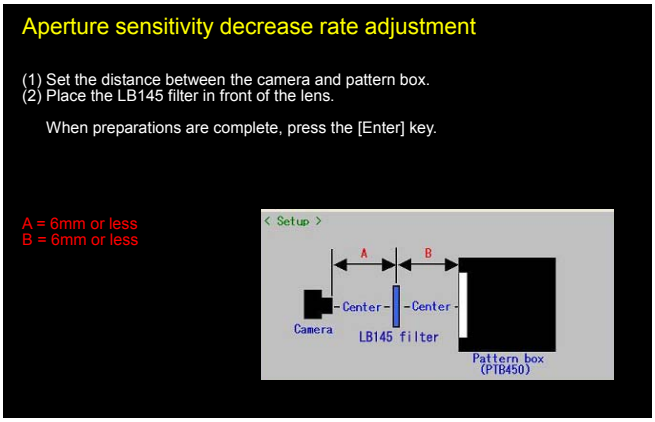
<Step 3>
[Shutter adjustment]
(1) Set the camera to designated distance.

When you have completed the preparations, press the [Enter] key to proceed.



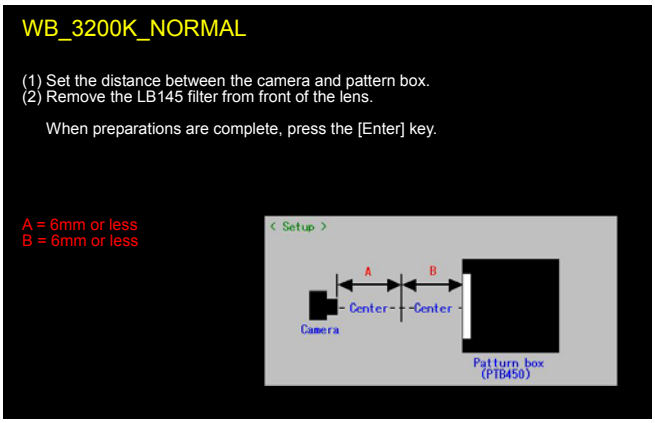
<Step 4>
[Aperture sensitivity decrease rate adjustment]
(1) Position the LB145 filter at the designated location in front of the lens.

When you have completed the preparations, press the [Enter] key to proceed.



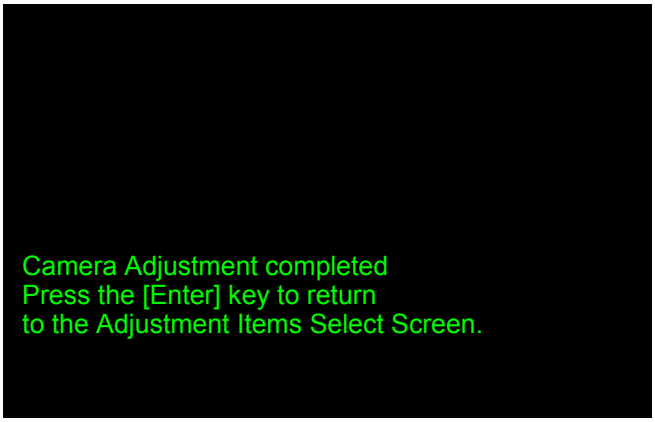
<Step 5>
[WB adjustment (3200K)]
(1) Remove the LB145 filter from the front of the lens.

When you have completed the preparations, press the [Enter] key to proceed.



<Step 6>
[Ending Camera Adjustment]

After completing the adjustments, press the [Enter] key to proceed.
The adjustment item select screen reappears.



3-14. [H]:Level Adjustment (High temperature)

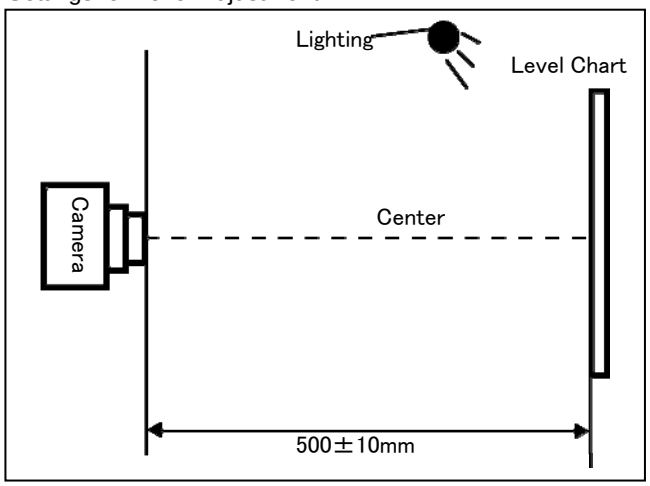
[Adjustment environment and precautions]

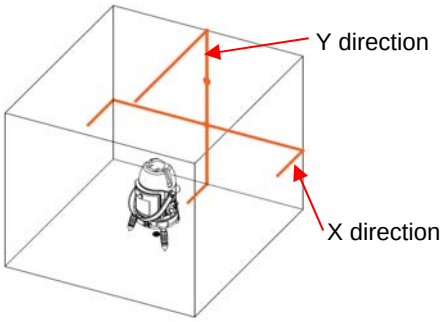
• Adjust the lighting to give a brightness of 9.0 to 11.0 EV on the Level chart surface.
• Check that Level Adjustment(Normal temperature), AF Adjustment, CMOS Defect Correction and Camera Adjustment have finished.
• Carry out the Level Adjustment(High temperature) at high temperature more than eight degrees from the Level Adjustment(Normal temperature), when adjustment fails you should first try turning the camera on a while and then carrying out the adjustment again.
• When removing / mounting jig lens, please note the dust from entering.

[Required items]

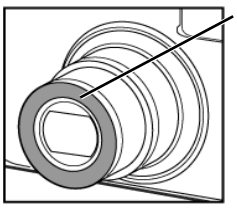
Camera fixing jig	If there are no problems with the adjustment environment, a tripod or X-Y stage can be used.
Lighting	Illuminate the chart
FxHS20EXR/X100 Level Chart	ZJ01849-100
X-Pro1 Level jig	ZJ01935-100
Rotation axis Stand	ZJ01858-100
☆ NP-W126 Battery jig	ZJ01936-100
FUJINON LENS XF18mm F2 R	---
Laser telemeter	Marketing product. Please purchase it in a general merchandising store. Maker : Makita, Model : SK308PZ When it's following specification equal to "SK308PZ", the Laser telemeter container is practicable. ·Precision : ±1mm/10m ·Line Point laser : X direction/Y direction

<Settings for Level Adjustment>



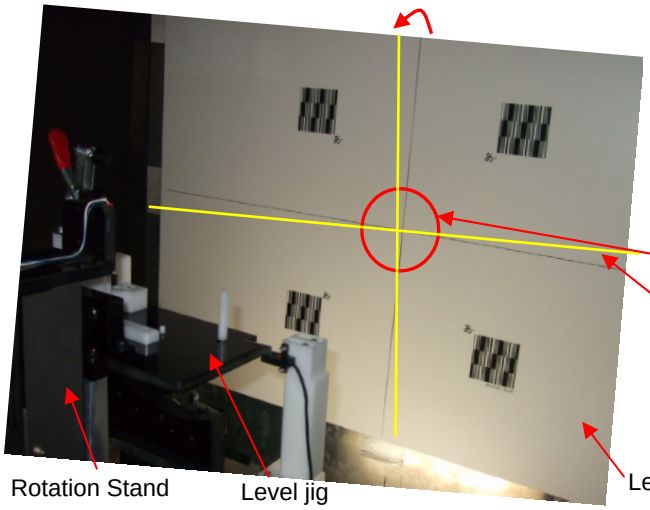


<Line Point laser movement of Laser telemeter>



This gray section is the "lens-face".

<Settings for Level Chart>



Adjust it in the following procedure at the time of "Level jig zero degree" so that "Level Chart" becomes level.

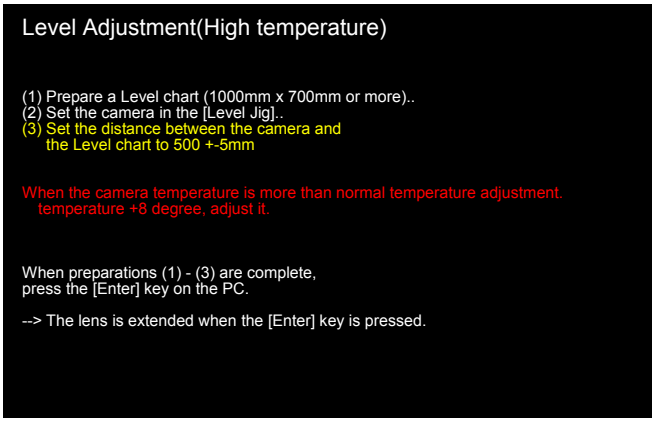
(1) Setting Rotation Stand in the horizontal place.
(2) Setting of Level jig in Rotation Stand. Setting of Level jig at the time of "0 degrees" to become level.
(3) Adjust the positions so that the distance from the level chart to the camera's lens-face is 500 +-5 mm.
(4) The Chart center comes to the LCD center.
(5) Setting Laser telemeter in the horizontal place.
(6) Irradiate Line Point in Chart from telemeter.
(7) Turn Chart to Line Point.
(8) The chart center confirms a thing in the LCD center.

☆ Revised:13.April.2012

<Step 1>
In the adjustment item select screen, select [H]: Level Adjustment(High temperature).

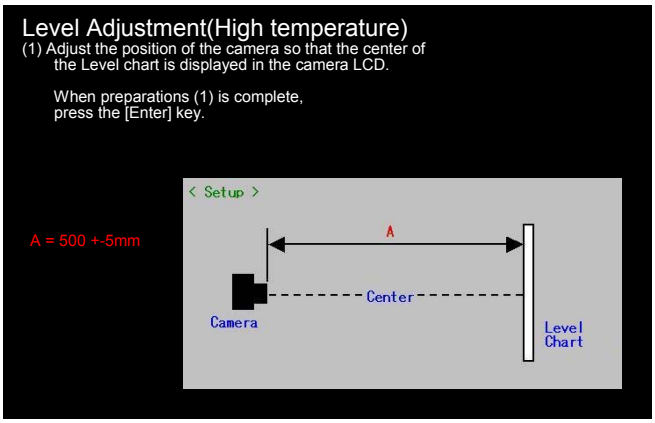
<Step 2>
[Preparing for Level Adjustment(High temperature)]
(1) Prepare the Level chart.
(2) Mount the camera on the Level jig so that it is facing the level chart.
(3) Adjust the positions so that the distance from the level chart to the camera's lens-face is 500 +-5 mm.

When you have completed the preparations, press the [Enter] key to proceed.



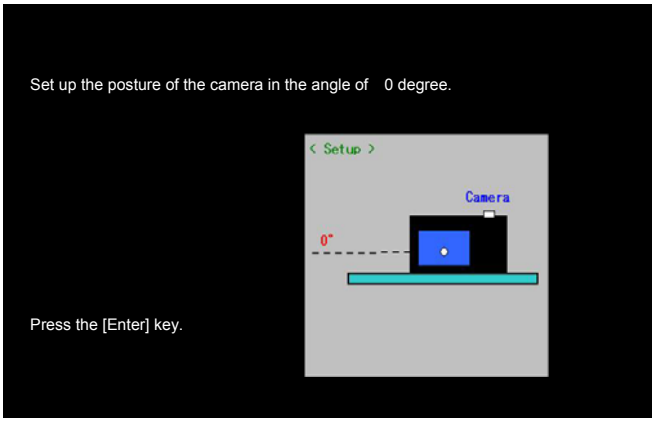
<Step 3>
[Level Adjustment(High temperature) initialization]
(1) Set the camera and Level chart to designated distance.

When you have completed the preparations, press the [Enter] key to proceed.



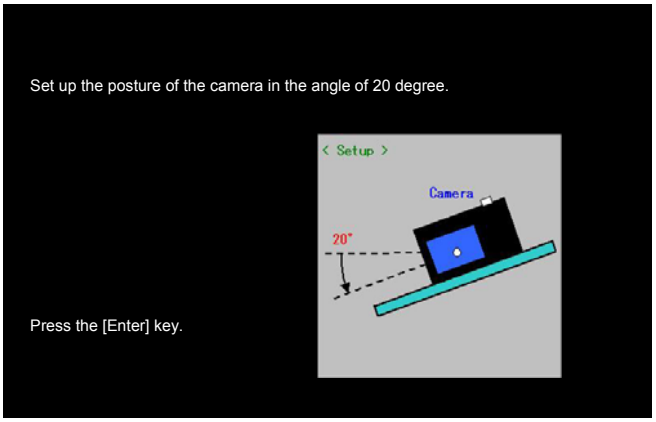
<Step 4>
(1) Set the Level jig in 0 degree.

When you have completed the preparations, press the [Enter] key to proceed.



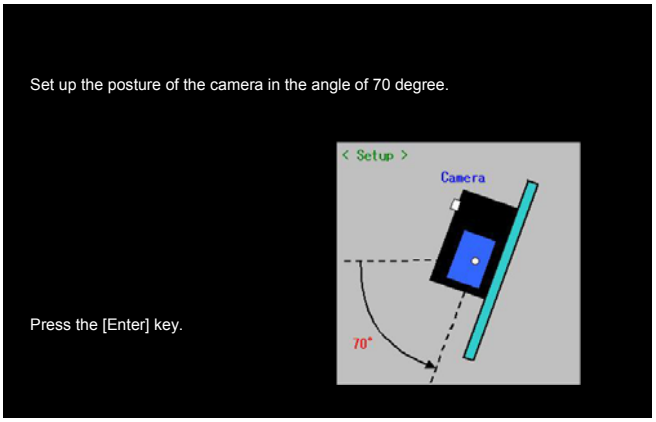
<Step 5>
(1) Set the Level jig in 20 degree.

When you have completed the preparations, press the [Enter] key to proceed.



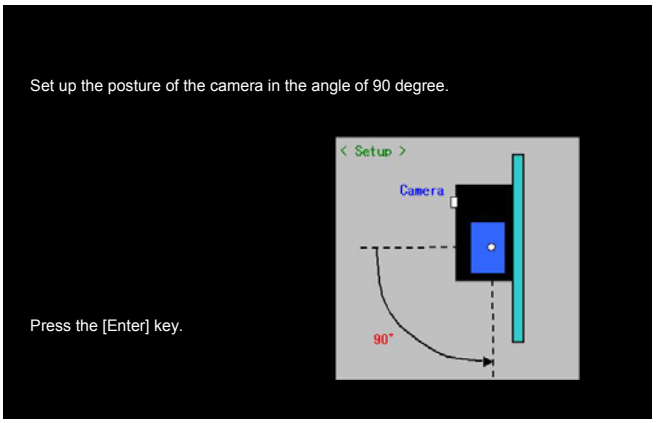
<Step 6>
(1) Set the Level jig in 70 degree.

When you have completed the preparations, press the [Enter] key to proceed.



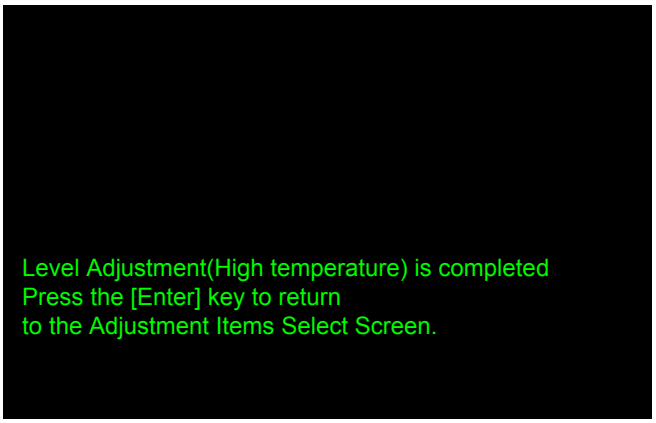
<Step 7>
(1) Set the Level jig in 90 degree.

When you have completed the preparations, press the [Enter] key to proceed.



<Step 8>
[Ending Level Adjustment(High temperature)]

After completing the adjustments, press the [Enter] key to proceed.
The adjustment item select screen reappears.



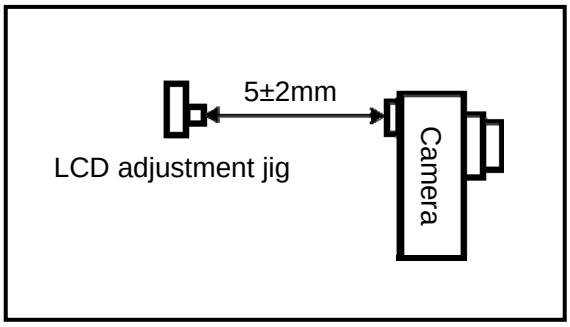
3-15. [E]:EVF Adjustment

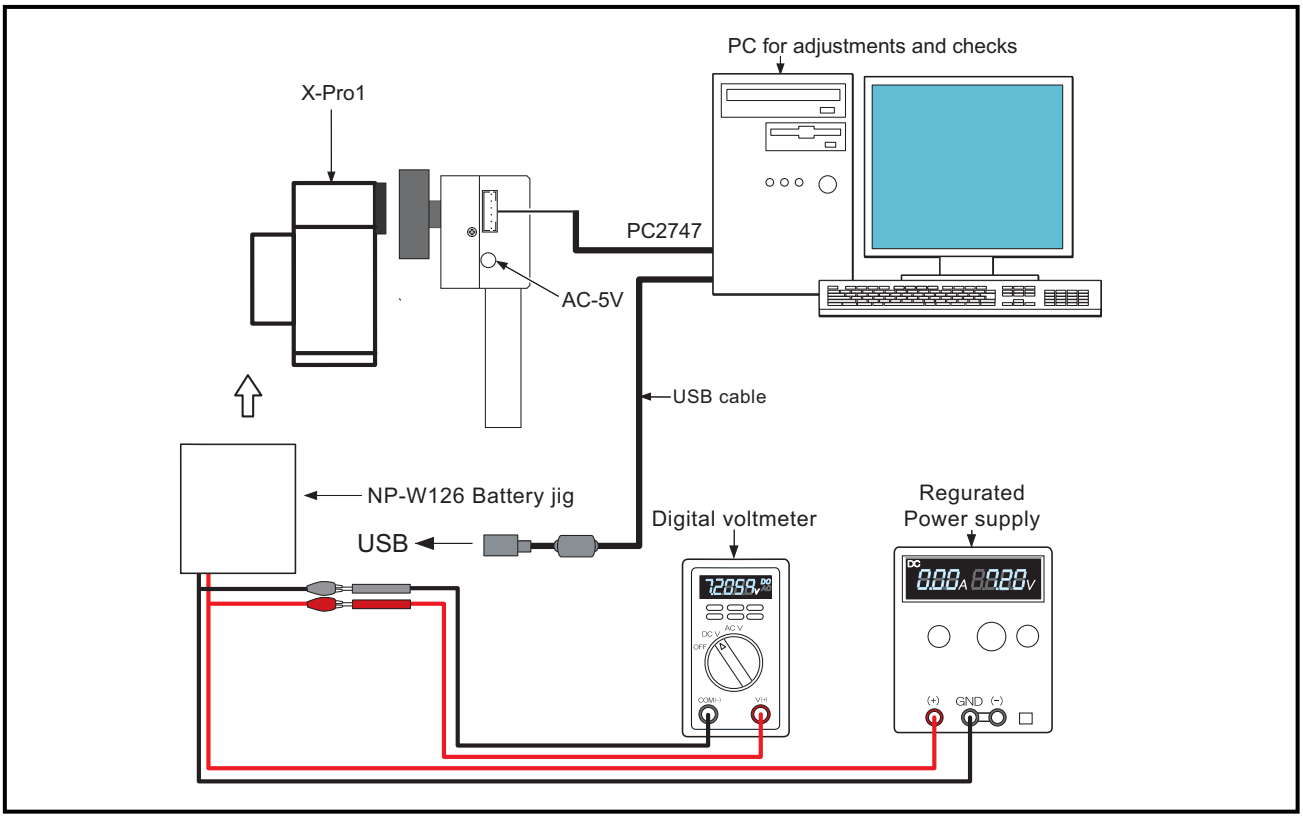
[Adjustment environment and precautions]
• Use an AC cable to supply power to the sensor on the LCD adjustment jig.

[Required items]

Camera fixing jig	If there are no problems with the adjustment environment, a tripod or X-Y stage can be used.
LCD adjustment jig	ZJ00585-100 (The cable must be connected to a PCI-2747A board installed in a PC.)
LCD JIG COVER	ZJ00631-100 (attach to the sensor to block the light)
☆ NP-W126 Battery jig	ZJ01936-100

<Settings for EVF Adjustment>



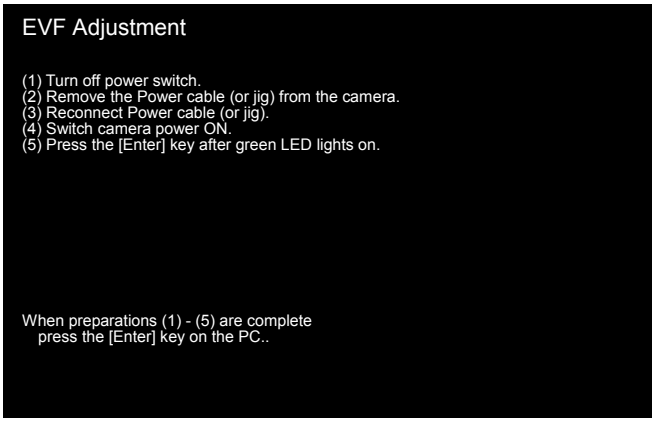


☆ Revised:13.April.2012

<Step 1>
In the adjustment item select screen, select [F3]:EVF Adjustment.

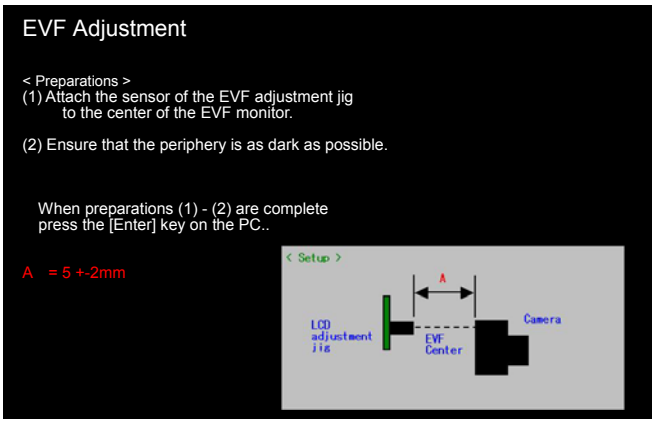
<Step 2>
[Preparing for EVF Adjustment]
(1) Turn the camera off.
(2) Unplug the power cord from the camera.
(3) Plug the power cord back into the camera.
(4) Turn the camera on.
(5) Check that the LED is lit green and then press the [Enter] key.

When you have completed the preparations, press the [Enter] key to proceed.



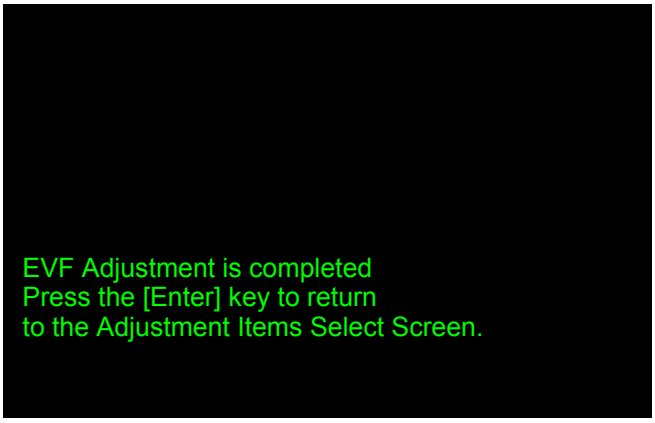
<Step 3>
[Preparing for EVF Adjustment]
(1) Supply power to the sensor from the AC adapter and align the sensor so that it is in the EVF screen and all external light is excluded.

When you have completed the preparations, press the [Enter] key to proceed.



<Step 4>
[Ending EVF Adjustment]

After completing the adjustments, press the [Enter] key to proceed.
The adjustment item select screen reappears.



3-16. [F1]:Battery Voltage Adjustment

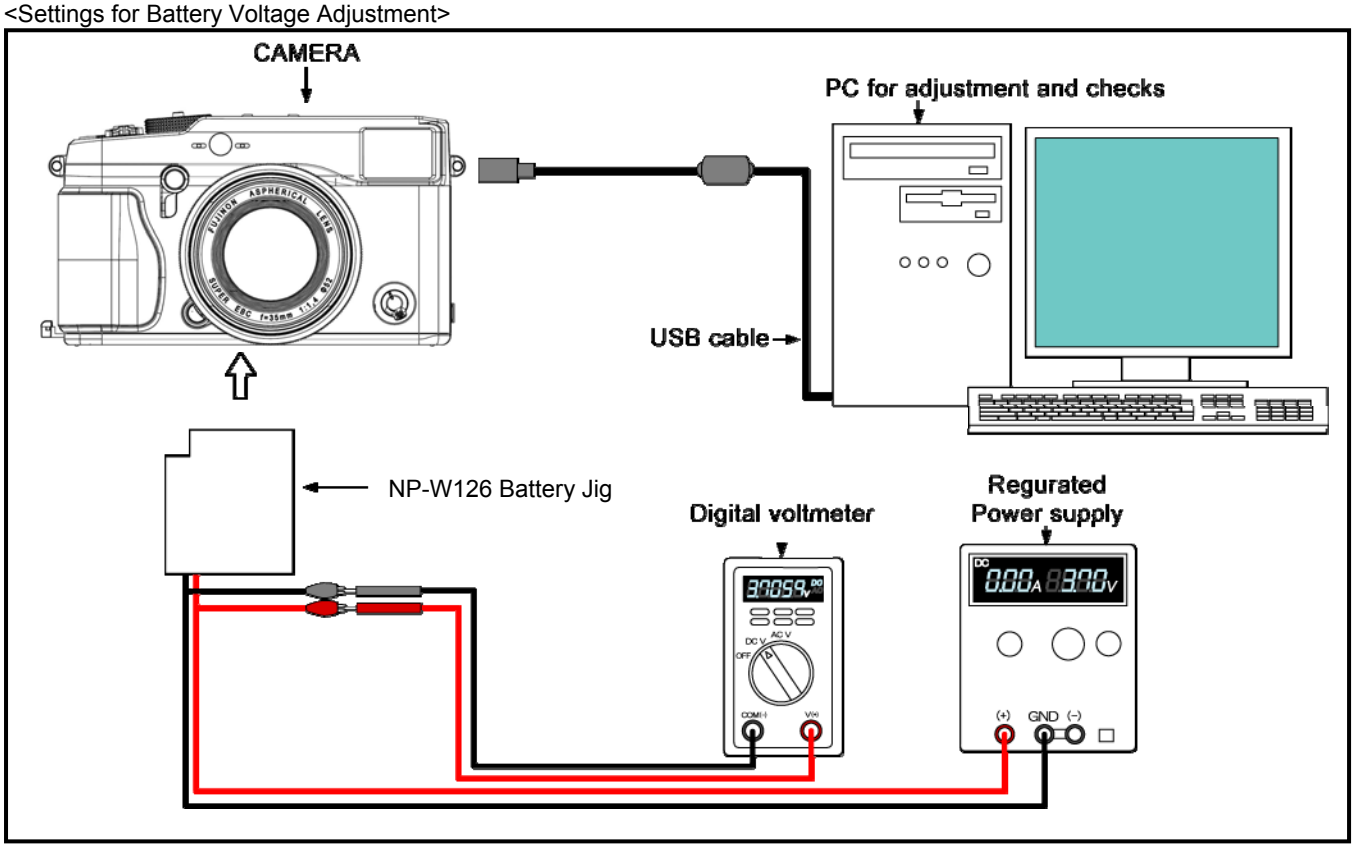
[Adjustment environment and precautions]

- If you have not been using the battery jig up until the immediately preceding adjustment, briefly pause the adjustment software (press "X" in the adjustment item select screen) and then turn the camera off. Then set the battery jig as the power supply (set the designated voltage) and then restart the adjustment software.
- Measure the voltage at the battery jig clip position.
- Ensure that the voltage provided by the regulated power supply does not suddenly decrease during adjustment. If the voltage drops significantly below the designated voltage, the camera turns off, communication between the adjustment software and the camera is interrupted and an error occurs.

[Required items]

Camera fixing jig	If there are no problems with the adjustment environment, a tripod or X-Y stage can be used.
Regulated power supply	
Digital Voltmeter	
NP-W126 Battery jig	ZJ01936-100

<Settings for Battery Voltage Adjustment>

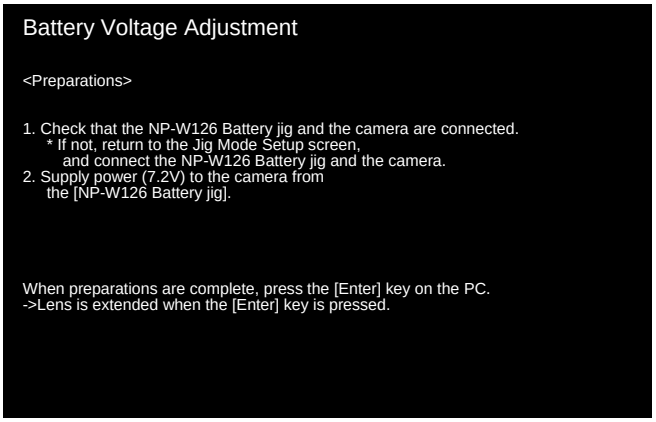


<Step 1>
In the adjustment item select screen, select [F1]: Battery Voltage Adjustment.

<Step 2>
[Preparing for Battery Voltage Adjustment]
Launch the adjustment software and connect the PC to the camera as shown in the figure before establishing communication between them.

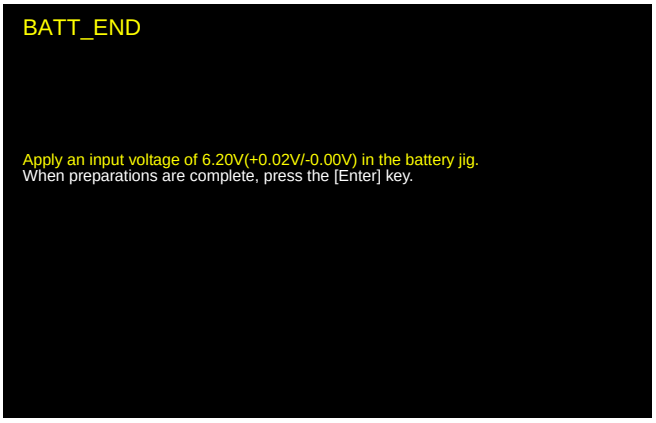
* If you are not using the battery jig, briefly pause the adjustment software (Ctrl+A) and then proceed to the "Jig Mode Setup Screen" in the adjustment software.
Set the digital voltmeter to voltage measurement mode and then connect the digital voltmeter to the battery jig clip.
● Check the digital voltmeter to ensure that the regulated voltage is set to 7.2V. Then set the camera in the battery jig and again turn it on in Jig mode. Then proceed to Battery Voltage Adjustment.

When you have completed the preparations, press the [Enter] key to proceed.



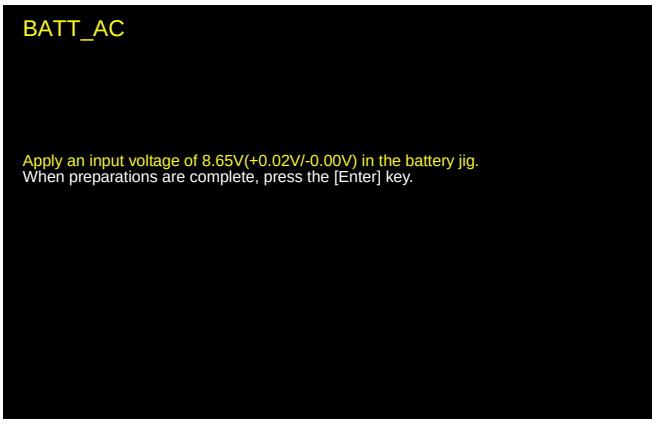
<Step 3>
[BATT_END]
Adjust the voltage from the regulated power supply so that [6.20V (+0.02V/-0.00V)] is displayed on the digital voltmeter.

When you have completed the preparations, press the [Enter] key to proceed.



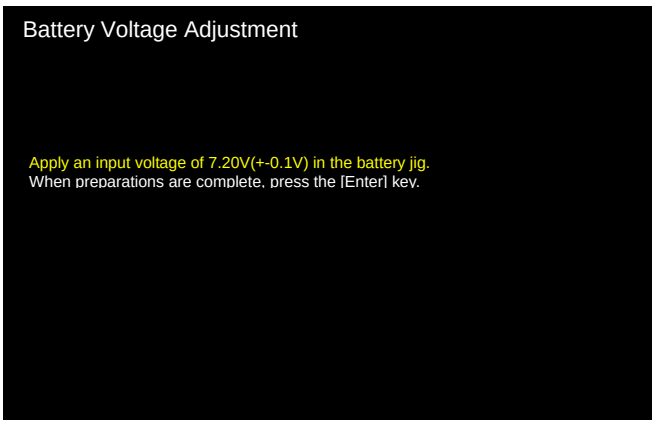
<Step 4>
[BATT_AC]
Adjust the voltage from the regulated power supply so that [8.65V(±0.1V)] is displayed on the digital voltmeter.

When you have completed the preparations, press the [Enter] key to proceed.



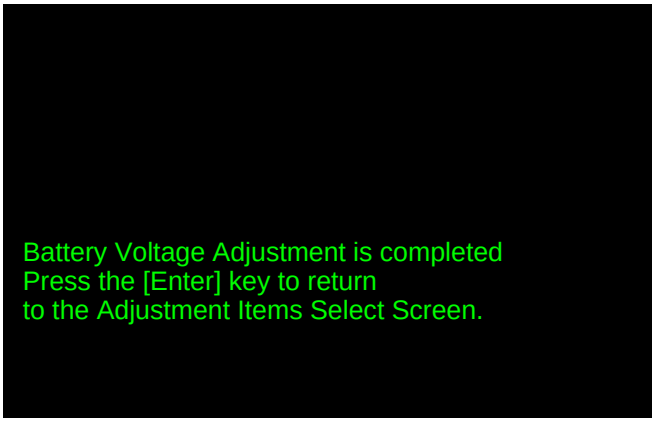
<Step 5>
[Restoring the Battery Voltage Adjustment default voltage]
Adjust the voltage from the regulated power supply so that ●[7.20V(±0.1V)] is displayed on the digital voltmeter.

When you have completed the preparations, press the [Enter] key to proceed.



<Step 6>
[Ending Battery Voltage Adjustment]

After completing the adjustments, press the [Enter] key to proceed.
The adjustment item select screen reappears.

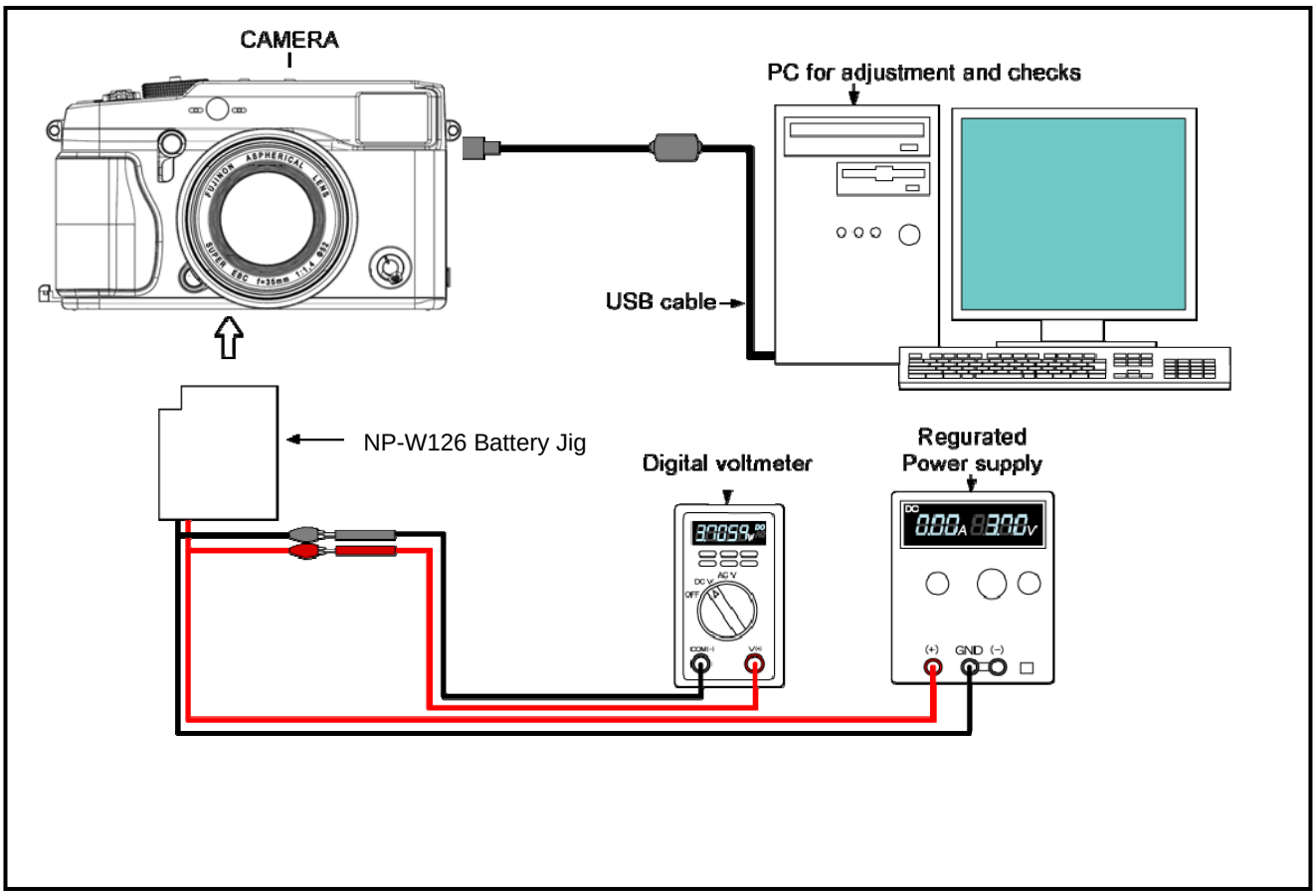


3-17. [F8]: Firmware Download

[Adjustment environment and precautions]
• Carry out a firmware download when instructed to do so.
Depending on the firmware that is upgraded, it may be necessary to make adjustments to the camera or to reset the EEPROM.
• Do not turn the camera off during firmware downloading.
Turning the camera off while a download is in progress could damage the camera. (At worst, it may no longer be possible to turn the camera on.)

[Required items]
None

☆<Setting for Firmware Download>

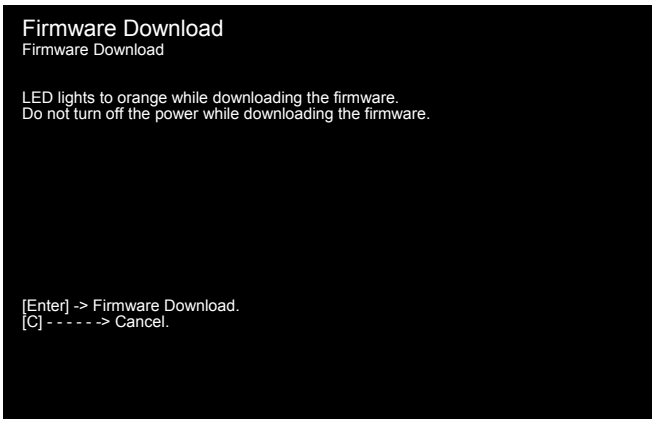


☆ Revised:13.April.2012

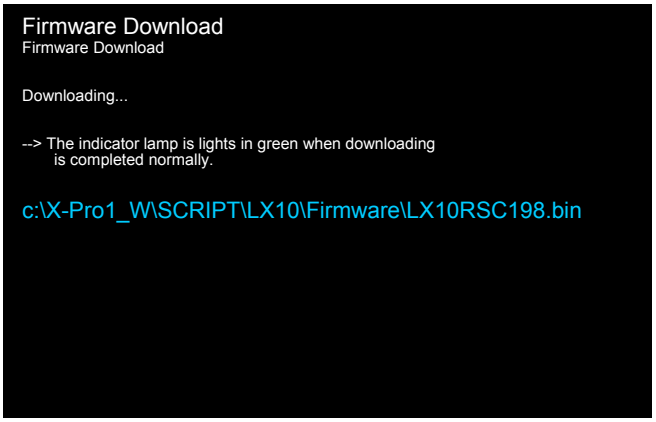
<Step 1>
In the adjustment item select screen, select [F8]: Firmware Download.

<Step 2>
[Checking Firmware Download]
Do not turn the camera off during the firmware download.
The LED on the camera lights orange while the firmware is downloading.

Press the [Enter] key to begin "Firmware Download".
Press the [C] key to cancel the procedure.

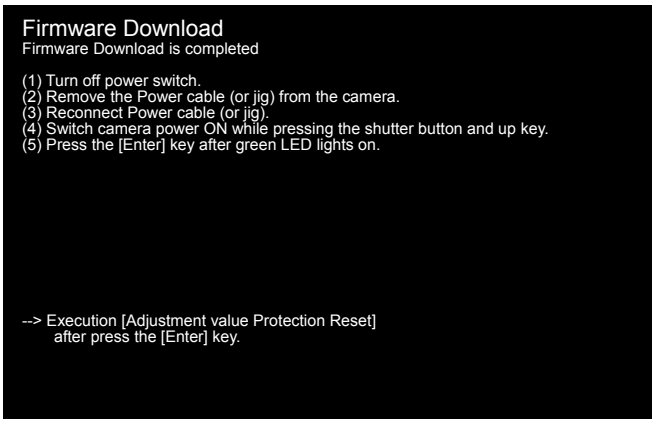


* The figure on the right shows the window displayed during firmware downloading.
If firmware downloading ends successfully, the LED lights green.



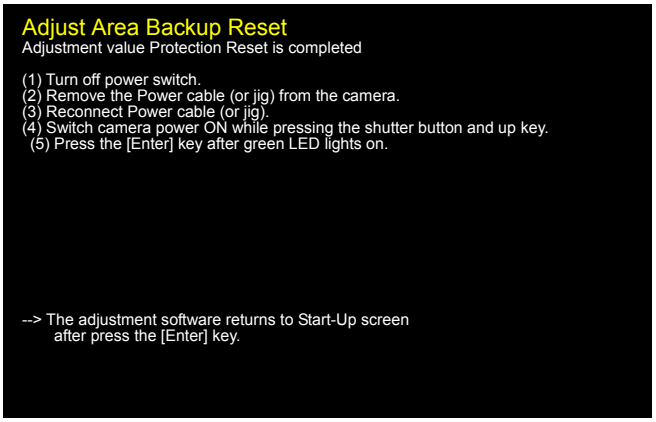
<Step 3>
[Ending Firmware Download]
(6) Turn the camera off.
(7) Unplug the power cord from the camera.
(8) Plug the power cord back into the camera.
(9) Turn the camera on while holding down the shutter button and up key(I).
(10) Check that the LED is lit green and then press the [Enter] key.

Press the [Enter] key to begin "Adjustment Value Protection Reset".



<Step 4>
[Checking Adjustment Value Protection Reset]
To apply the firmware, reset the EEPROM while protecting the adjustment values.
(1) Turn the camera off.
(2) Unplug the power cord from the camera.
(3) Plug the power cord back into the camera.
(4) Turn the camera on while holding down the shutter button and up key(I).
(5) Check that the LED is lit green and then press the [Enter] key.

Press the [Enter] key to return to the Adjustment Software Start-up Screen.



3-18. [F12]:End Setting

[Details]

- **Default camera destinations**
  The serial number is used as a guide to setting the default destination for a camera.
- **USB_ID Write**
  Every USB device (the camera in this case) must be globally unique as a USB device. To ensure this, the USB standard requires that a device-specific ID be assigned to each device.
- **Switching from repair mode to product mode**
  This changes the mode from the repair mode (JIG mode) set when the adjustment software is used to product mode (the mode that allows a PC to recognize the camera as a PTP or Mass Storage device).
- **Repair site ID Write**
  The repair site ID is written to the camera when the adjustment software is first launched. The settings are shown in the table below. (No setting tasks are included in the End Setting procedure.)

Item	Details			
Repair Date	Date information is acquired from the PC and written.			
Administrator ID	01(01)			
Repair Station	U.S.A.	61(a)	SAPPORO	30(0)
	CANADA	62(b)	KURIHARA	32(2)
	HAWAII	63(c)	TOKYO	33(3)
	TAIWAN	64(d)	OSAKA	35(5)
	BRITAIN	66(f)	FUKUOKA	38(8)
	GERMANY	67(g)	OTHER	7A(z)
	FRANCE	68(h)		
	SPAIN	69(i)		
	ITALY	6A(j)		
	NETHERLANDS	6B(k)		
	BELGIUM	6C(l)		
	SWEDEN	6D(m)		
	SWITZERLAND	6E(n)		
	NORWAY	6F(o)		
	FINLAND	70(p)		
	SINGAPORE	71(q)		
	CHINA	74(t)		
Repair Serial No.	A serial No. is assigned automatically and written			

[Adjustment environment and precautions]

- The End Setting procedure must always be carried out after adjustment is completed.

If End Setting is omitted, the camera will not be recognized as a PTP or Mass Storage device when it is connected to a PC in normal operation.

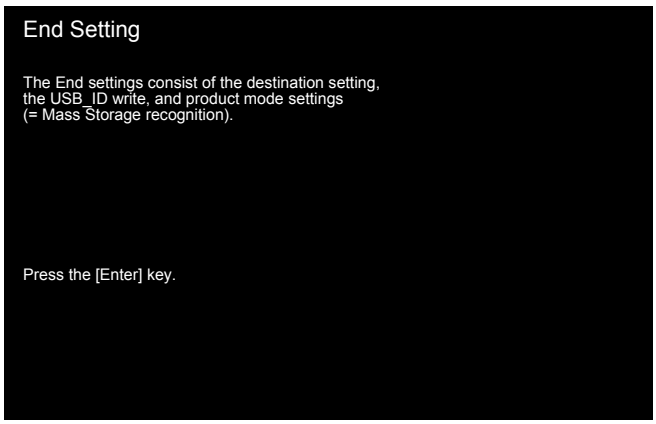
[Required items]

None

<Step 1>
In the adjustment item select screen, select [F12]: End Setting.

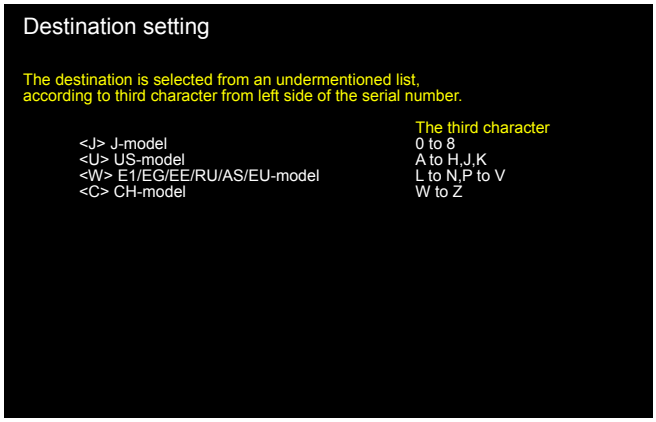
<Step 2>
[Checking End Setting]

Check the details and then press the [Enter] key to proceed.



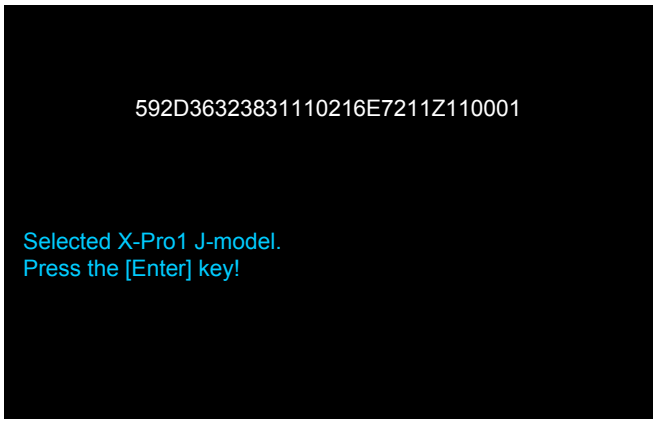
<Step 3>
[Destination setting]
Look at the 3rd digit from the left in the camera's serial number and then press the corresponding key.

Selected key	Destination	3rd digit in serial no.
J	J-model	0 to 8
U	US-model	A to H,J,K
W	E1/EG/EE/RU/AS/EU-model	L to N,P to V
C	CH-model	W to Z



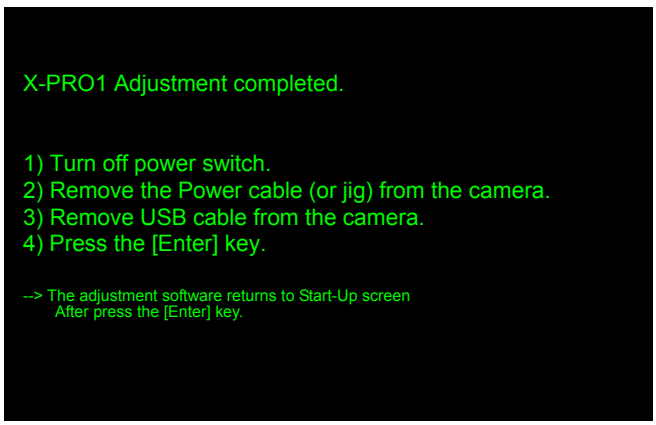
<Step 4>
[Checking the USB_ID and destination]

Check the details and then press the [Enter] key to proceed.



<Step 5>
[Ending Adjustment]
(1) Turn the camera off.
(2) Disconnect the power cord from the camera.
(3) Disconnect the USB cable from the camera.

When you have completed these steps, press the [Enter] key. After the "OK" screen display, the Adjustment Software Start-up Screen reappears.
(When adjust the same camera again, switch camera power off once, and please switch camera power on with a jig mode again.)



MEMO

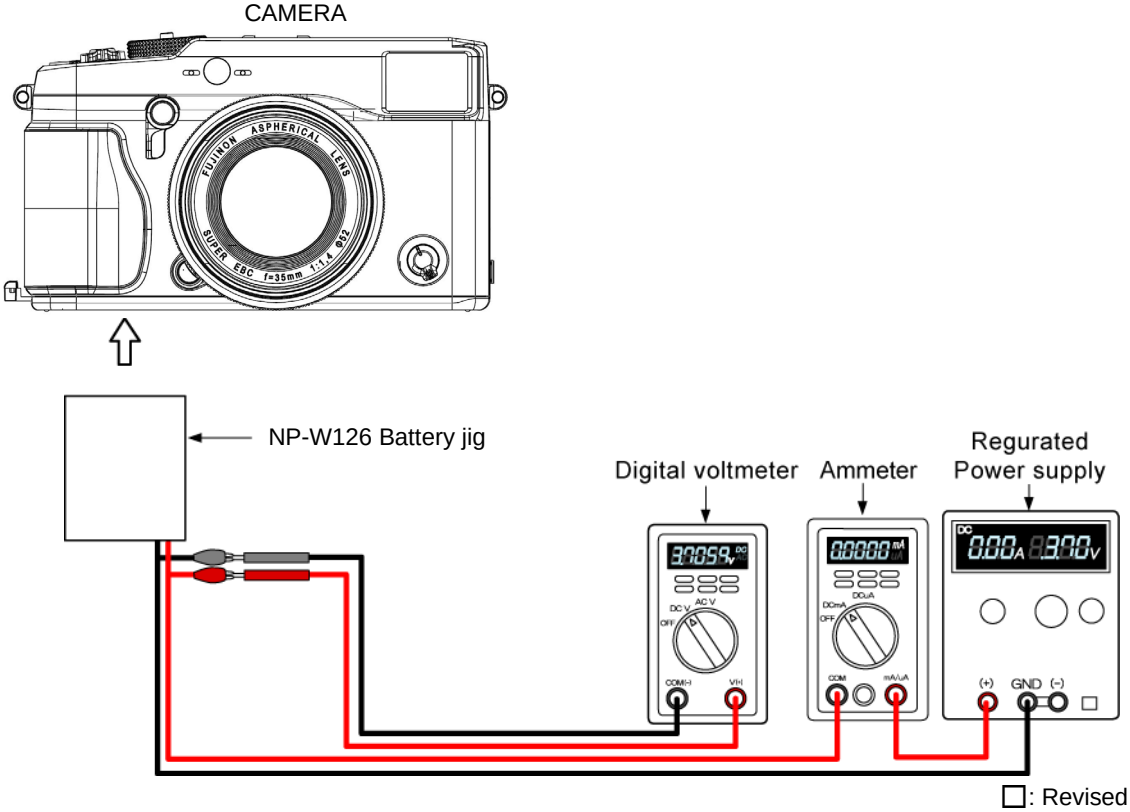
4. Inspection

4-1. Required Measuring Equipment

	Parts number	Measuring equipment	Remarks
		Power supply	Regulated power supply
		Digital voltmeter	For general use
		Ammeter	For general use (able to measure 1mA or less)
		TV Monitor	For general use (with terminal HDMI)
		HDMI CABLE	For general use (Type A-C)
		External Flash	For general use (able to Synchronization Communication)
		FUJINON LENS XF35mmF1.4R	Commercial accessories
□		Light viewer	Common with FinePix Z800EXR. * This is commercially available. Manufacturer: HAKUBA, model numbers: items equivalent to KLV-5700
	ZJ01936-100	NP-W126 Battery jig	Common with the adjustment JIG
	ZJ00525-100	Macro Chart	Resolution confirmation
	ZJ00885-100	LCD INSPECTION DATA	For LCD inspection (Download from the web)
	ZPU0512-100	SD CARD ULTRA2 1GB	To check inspection SD recording
	ZJ00982-100	Multi Cable(USB/AV) for F30	Common with adjustment JIG
	ZJ01848-100	FxX100 Line Chart	New JIG
○	ZJ01988-100	Appearance inspection sample chart	For finder inspection
□	ZJ02093-100	X-Pro1 W Dust Inspection Soft Ver.1.00	CMOS Dust Inspection software
□	ZS00172-100	Cleaning paper	

4-2. Connection of Measuring Equipment

Use the NP-W126 Battery jig.
The output current of the Regurated power supply must not become 2.5A or more.



□: Revised
○ Revised: 20.April.2012

4-3. Inspection and Factory Settings

Sequence	Item	Mode	Preparations for adjustment (measurement points, subject, other)	Method of adjustment (VRs, waveforms, required values)	Measuring equipment and jigs
1	External visual check		(1) Observe the camera.	(1) Check for damage to the outer casing (Inventory repairs only). Check for problems with the clicking or sliding movement of switches. Check for dust or fogging in the LCD.	
2	Attachment of a lens		(1) Lens mount cover is removed. (2) 35mm Lens is attached.	(2) Garbage dose not enter to the inside of a lens mount.	
3	Power switch check	P mode	(1) Set the power supply voltage. (2) Connect the power supply jig to the battery terminal. (3) Insert a card. (4) Select the mode dial setting. (5) Turn the camera on. (6) If a message appears asking for the language and date to be set, press the specification button on the right. (7) Check the LCD screen display status. (8) Check for blemishes in the CMOS live image.	(1) 7.80V±0.10V (3) SD card for recording checking. (4) Mode: IRIS AUTO/SS AUTO. (6) <DISP/BACK> (7) Check that the live image and text is displayed. (8) Monitor a very bright subject and check that the live image does not dim or darken.	ZJ01936-100 ZPU0512-100
4	Shock noise check in Auto mode	P mode	(1) Apply a shock to the camera using the shock jig.	(1) Check for problems on the LCD monitor. Check that the camera recovers from synchronicity disruption. (Note) Do not apply shocks directly to the lens or card cover.	
5	Leveling instrument check	P mode	(1) Turn on level indication. (2) The camera is rotated by 90 degrees. (3) Turn off level indication.	(1) Push the <DISP/BACK> button and choose CUSTOM(C) setting. (2) The indication of the level follow it. (3) Push the <DISP/BACK> button and choose STANDERD setting.	
6	Image rotate check	P mode	(1) The camera is rotated by 90 degrees. (2) Press the shutter button to take a picture.	(2) Rotate image have to be easy to understand.	
7	Resolution check Focusing check	P mode	(1) Use a macro resolution chart as the subject. (2) Set the camera to Macro mode. (3) Set the camera up so that the chart fills the screen from corner to corner. (4) Press the shutter button to take a picture.	(2) The Macro icon (🌷) appears on the LCD monitor. (4) The indicator lamp lights green -> Intermittently lights orange or green (recording) -> Turns off.	ZJ00525-100

8	Manual focus check	P mode	(1) Set the manual focus(MF) mode. (2) Turn the focus ring. (3) Set the AF-S mode.	(1) Select the MF of a MF/S-AF/C-AF changeover switch. (2) Focus change. (3) MF indication disappear.	
9	External Flash operation check	P mode	(1) Set the tester's + probe on the flash hot shoe X contacts and the tester's – probe on the flash hot shoe GND contact. (2) Press the shutter button to take a Picture. (3) Turn the External Flash on. (4) Connect the camera to the External Flash with the synchronization code. (5) Press the shutter button to take a Picture. (6) Disconnect the synchronization code from camera. (7) Turn the External Flash off.	(2) Thing which does decrease change by resistance momentarily, and returns to origin immediately. (5) An External Flash emits light.	
10	Movie/audio recording check	Movie mode	(1) Set the MOVIE mode. (2) Press shutter button. (3) After 5 seconds, press shutter button. (4) Set the STILL IMAGE mode.	(2) Check that movie/audio recording begins. Check that "REC" appears on the LCD monitor. (3) Check that movie/audio recording ends and that the data is recorded on the SD card.	
11	Movie/audio playback check	Playback	(1) Set the camera to Playback mode. (2) Press the 4-way button (down) to play back the movie.	(2) Check that the movie is played back on the LCD monitor. Check that the sound is played back through the speaker.	
12	Playback check	Playback	(1) Plug the HDMI CABLE into the camera. (2) Check images shot at macro resolutions (manual photography). (3) Check images shot at Rotate image (manual photography). (4) Disconnect the HDMI CABLE from the camera.	(1) The LCD displays should switch off, and the indicator lamp should light up in green. (2) Where the horizontal resolution is as follows: 350 TV lines or better at the center and 300 TV lines or better at the periphery (NTSC). 300 TV lines or better at the center and 250 TV lines or better at the periphery (PAL). (3) Direction of rotate image have to correct.	
13	PC connection checking	-	(1)Connect the camera to the PC with the USB/AV CABLE. (2) Copy the image files in the camera to a folder on the PC. (3) Disconnect the USB/AV CABLE from the camera.	(1) Check that the PC recognizes the camera over a PTP connection. (2) Check that the image files have been copied to the PC.	ZJ00982-100

14	Erase mode check	Erase	(1) Select “Erase” -> “ALL FRAMES” from the menu and then press the “OK” button. (2) Select "OK" and press the “OK” button. (3) Turn the camera off. (4) Disconnect the SD card from the camera.	(1) Check that an erase message such as the following appears: Overseas: “ERASE ALL OK?” China: “ OK?” (2) Check that the recorded images are erased.	
15	Playback mode check	Playback	(1) Insert a LCD INSPECTION SD card. (2) Turn the camera on. (3) If a message prompting the user to set the date appears, press the butt on specified on the right. (4) Start up in playback mode. (5) Check the playback image.	(3) <DISP/BACK> (5) Check that the last image shot appears, regardless of whether it is automatic or manual. Check that the date is displayed in the YYYY. MM.DD format.	ZJ00855-100 ZPU0512-100
16	LCD dust/defect check	Playback	(1) Play back a completely black image. (2) Play back a completely white (75%) image.	(1) Check that there are no noticeable dust flecks or stains (bright spots, smears, flashing points, etc.) on the screen.	ZJ00885-100
17	EVF dust/defect check	Playback	(1) Change to EVF display. (2) Play back a completely white (75%) image. (3) Play back a completely black image.	(1) Push the VIEW MODE button. (2) Check that there are no noticeable dust flecks or stains (bright spots, smears, flashing points, etc.) on the screen.	ZJ00885-100
18	Eye sensor check	Playback	(1) Set the Eye Sensor mode. (2) Bring eyes close to EVF in a state displayed by LCD. (3) Keep away eyes from EVF. (4) Turn the camera off.	(1) Push the VIEW MODE button and turn on the Eye Sensor. (2) Displayed by EVF. (3) Displayed by LCD.	
19	Battery low check	P mode	(1) Set the power supply voltage. (2) Select the mode dial setting. (3) Turn the camera on. (4) Set the power supply voltage. (5) Turn the camera off. (6) Remove battery and am connected again once after progress more than ten seconds.	(1) 7.80 V ± 0.10 V (2) Mode: IRIS AUTO/SS AUTO. (4) 6.40 V ± 0.04V Check that the battery-low warning (pre-end) appears. (5) Check the camera turns off.	ZJ01936-100
20	Current consumption check	P mode	(1) Set the power supply voltage. (2) Select the mode dial setting. (3) Turn the camera on. (4) Check the Macro mode. (5) Macro mode is set as off. (6) After the LCD live image appears, check the current consumption.	(1) 7.80 V ± 0.10 V (2) Mode: IRIS AUTO/SS AUTO. AF Mode: AF-S. (4) Backup check. (6) 500 mA or less	ZJ01936-100

21	Variable power lens check	P mode	(1) Look into the OVF and check the OVF display. (2) EVF lever is pulled a long time and check the variable power lens comes out. (3) Again EVF lever is pulled a long time and the variable power lens is returned. (4) Turn the camera off.	(1) In an EVF display, EVF lever is plulled.	
22	Checking standby current	Power off	(1) Chek the power supply voltage. (2) Check the standby current when the power is turned OFF. (3) Disconnect the SD card from the camera.	(1) 7.80 V ± 0.10 V (2) 0.5 mA or less	ZJ01936-100
23	Removal of a lens		(1) 35mm Lens is removed. (2) Lens mount cover is attached.	(1) Garbage dose not enter to the inside of a lens mount. There is no crease,bend,dent in a mount pin.	
24	Shipping inspection (Inventory repairs only)		(1) Mode dial. (2) AF changeover switch. (3) SETUP frame no. (4) Variable power lens. (5) Battery and cards not inserted. (6) Battery cover. (7) DC coupler cable cover. (8) Terminal cover. (9) Lens mount cover. (10) Synchronization terminal cover. (11) Power off.	(1) Aperture value AUTO/Shutter Speed AUTO/ Exposure 0EV (2) AF-S (3) New: The default SETUP frame No. setting is “Continuous”, but to clear the number of frames in the frame number memory to zero, you should always change the setting to “New” before turning the camera off. (4) OFF (5) Normal (6) Closed (7) Closed (8) Closed (9) Set (10) Set (11) The power supply is stopped after the camera's shutdown sequence ends.	
				* Setting and clearing date (1) Connect the USB/AV CABLE from the PC to the camera (ensure that the PC is switched ON). (2) Switch power ON (POWER_ON) while pressing the shutter button and 🗑button. (3) Switch power OFF (POWER_OFF). (4) Check that the date has been cleared.	

* Please downloaded from Web server (https://denhin.fujifilm.co.jp/csg_en/index.htm or http://fujifilm-di.intranets.com/).

4-4. Resolution Check

<Settings for Resolution Check >

(1) It cuts it like figure 2, and please stick FxX100 Line Chart (ZJ01848-100) on a board of 1,204.1mm X 796.9mm.
(2) Referring to right figure 1, Prepare for a camera and resolution chart.
(3) Lights up the resolution chart with a source of light.
(4) Brightness of the resolution chart
Center :500～850LX
Periphery: 0～+400LX (For the center)

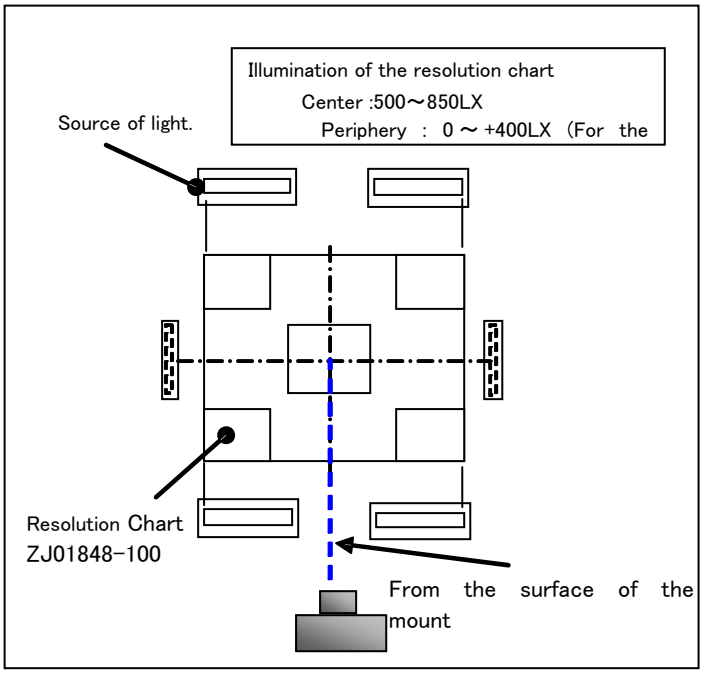


Figure.1

<STEP 1>
[Resolution Check initialization]

(1) 35mm Lens is attached.
(2) Set the Battery and SD card to the camera.
(3) Turn the camera on.
(4) Carry out the reset of Camera from MENU
(5) Set a camera as follows
1. Shooting mode : A (Aperture Value)
2.ISO : 200
3.WB : Fluorescent light -3
4.Aperture value : F4
5.Film simulation : Standard
6.Self-timer : 2sec
(6) Fix a camera to a tripod, and point a camera to the resolution chart.
(7) Set resolution chart at the position of 1200mm (+-3mm) from the lens tip of the camera.
(8) Match a chart angle of view with LCD like figure 2.
(9) Photograph it.
* If a self-timer begins to work, please do not touch the camera.

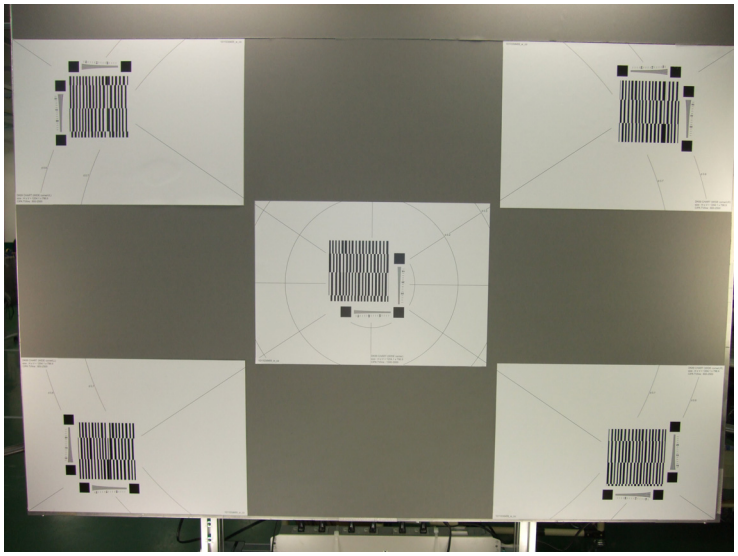
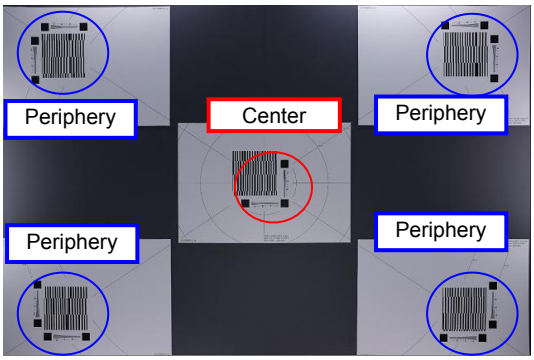


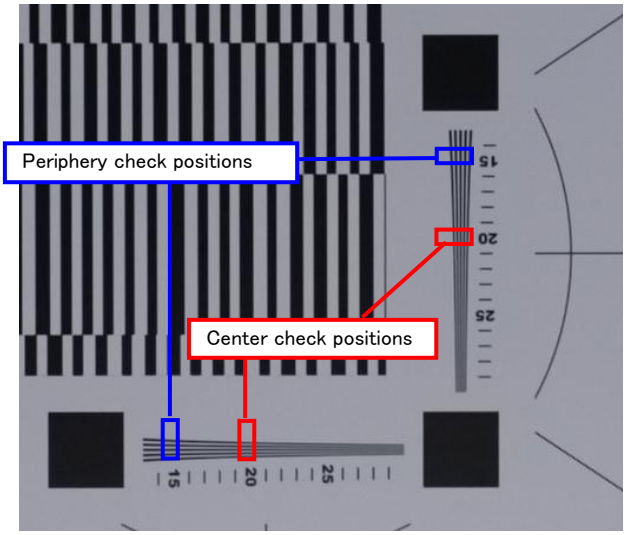
Figure.2

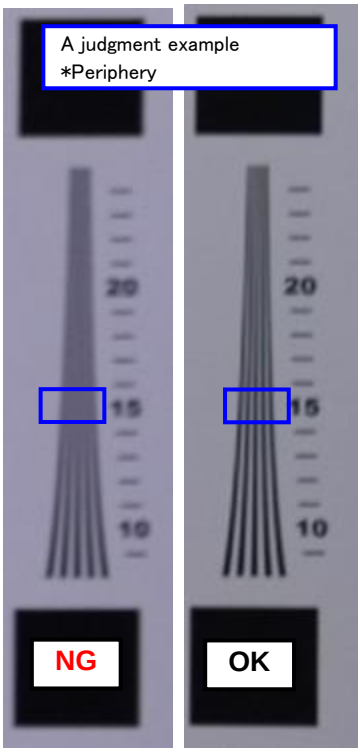
＜STEP 2＞

[Resolution Check]

(1) Check the resolution at the center and periphery of the photography image with the monitor of the PC.
[SPEC] * Check an image at actual size
Center : What the line of the part to say 20 can distinguish.
Periphery: What the line of the part to say 15 can distinguish.







＜STEP 3＞

[Ending Resolution Check]

If an OK, carry out the following..

(1) Carry out the reset of Camera from MENU.
(2) Turn the camera off.
(3) Disconnect from the tripod.
(4) Take out battery and SD card.
(5) Close the cover of Battery and Treminal.
(6) 35mm Lens is removed.

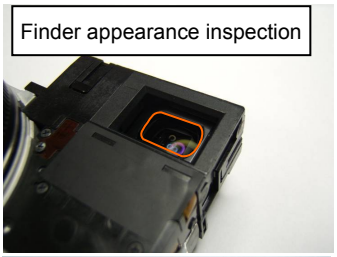
○4-5. Finder dust check

< Finder appearance >

(1) Wipe the dust dirt of the lens surface, finder window.
(2) Comparative size is measured appearance inspection sample chart and dust.

<Finder appearance inspection standard>

- OK to the size of φ0.15mm
- Size of φ0.10 to 0.15mm be OK to 1 piece

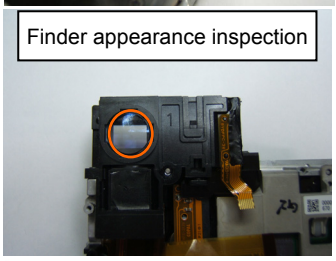


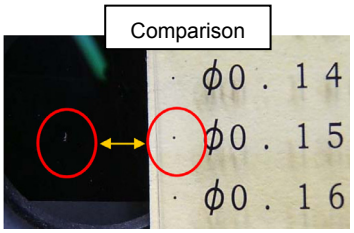
< Finder appearance(lens at zoom ratio) **>**

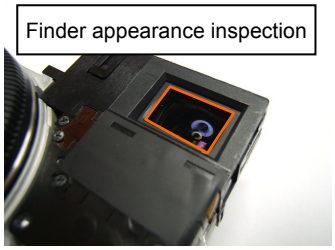
(1) Change FINDER .
Wipe the dust dirt of the lens surface, finder window.
(2) Comparative size is measured appearance inspection sample chart and dust.

<Finder appearance inspection standard>

- OK to the size of φ0.15mm
- Size of φ0.10 to 0.15mm be OK to 1 piece







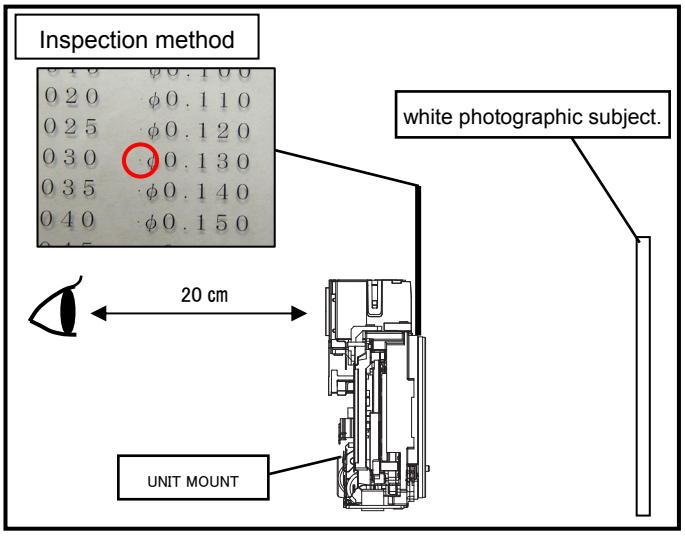
<Dust of finder (when seeing apart)>

∗ insert a different lens at zoom ratio.

(1) Appearance inspection sample chart is projected on the finder window.
(2) Finder is turned to a white photographic subject.
Distance the 20cm see the finder inside.
(3) Comparative size is measured appearance inspection sample chart and dust.

< Inspection standard >

- OK to the size of φ0.13mm
- Size of φ0.10 to 0.13mm be OK to 2 piece



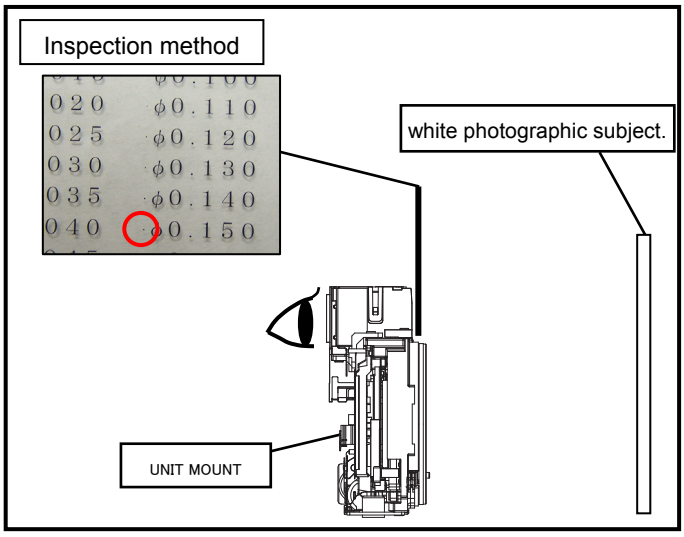
<Dust of finder >

∗ insert a different lens at zoom ratio.

(1) Appearance inspection sample chart is projected on the finder window.
(2) Finder is turned to a white photographic subject.
See the finder inside.
(3) Comparative size is measured dot chart and dust.

< Inspection standard >

- OK to the size of φ0.15mm



○ Revised:20.April.2012

☐4-6. CMOS Cleaning and Inspection Procedures

CMOS is incorporated with this model as an image sensor. Dust etc. could stick to the CMOS and depending on shooting conditions and the type of subject, it could be recorded in images.
If it is the case, the CMOS needs to be cleaned.

4-6-1. Visual Inspection for Dusts and Cleaning method

<Step 1>
Check if the camera is switched off and remove the battery.

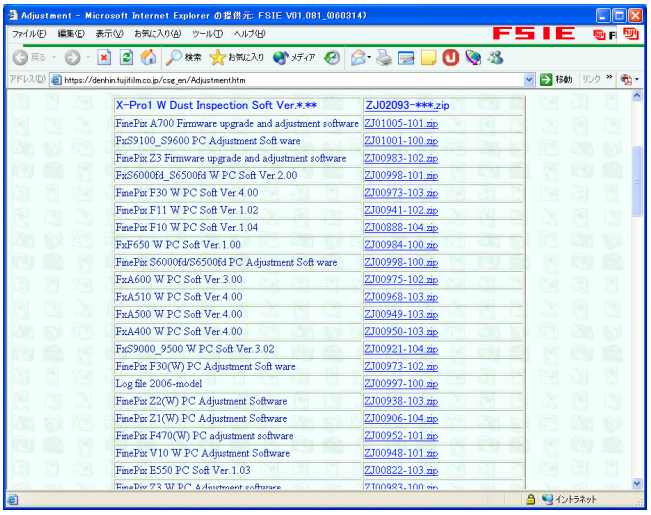
<Step 2>
Remove the interchangeable lens from the camera.

<Step 3>
Hold the camera so that light goes to the CMOS and check if there are dusts on the CMOS surface either visually or by using a microscope.
If dusts can be seen, use a blower to remove it ([Note]).
If the dusts cannot be removed using the blower, wipe the CMOS with a lens cleaner (OLYMPUS HYPER CLEAN EE-3310 or Equivalent goods) and ZS00172-100 CLEANING PAPER or Equivalent goods.
Do not use a blower with a brush.
Using a blower-brush to clean the CMOS could scratch the CMOS surface.

[Note]
When swiping the CMOS, note that any metallic dusts on the CMOS surface will cause scratches in the CMOS surface during cleaning.

4-6-2. Installation of X-Pro1 W Dust Inspection Soft Ver.*.**

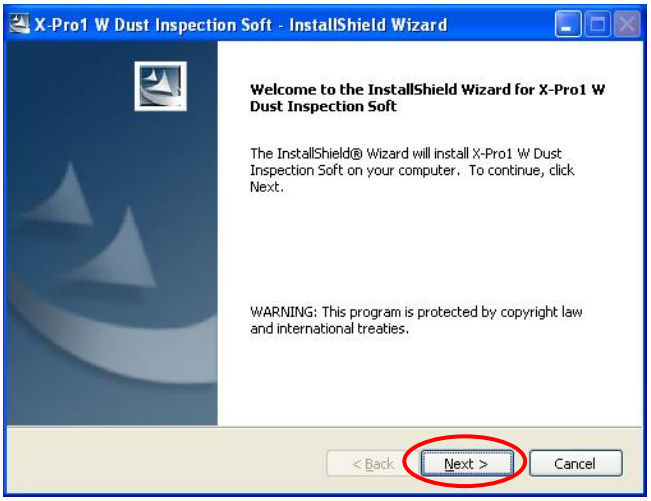
<Step 1>
Download the inspection software from WEB and install the software in a PC.
We have uploaded the "**X-Pro1 W Dust Inspection Soft Ver.*.** (ZJ02093-***.zip)**" on our website:
(https://denhin.fujifilm.co.jp/csg_en/index.htm).



<Step 2>
"**ZJ02093**-***" is a compressed file of "ZIP".
The "ZJ02093-***" folder can be decompressed by "Compression software".
Copy the "ZJ02093-***" folder to the "C" drive in the PC.

<Step 3>
Double-click the inspection software installer file of "Setup_X-Pro1_W_DustInspection_***.exe" in the "ZJ02093-***" folder.

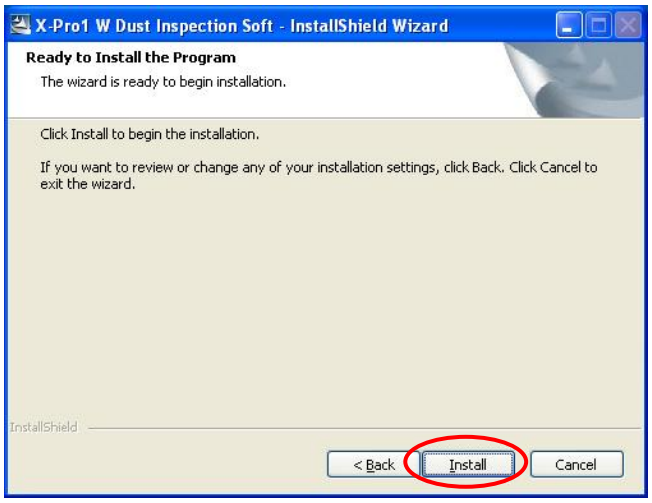
<Step 4>
When the window in the right appears, click [Next].



☐: Revised

□**<Step 5>**

When the window in the right appears, click [Install].
(Then, installation begins.)



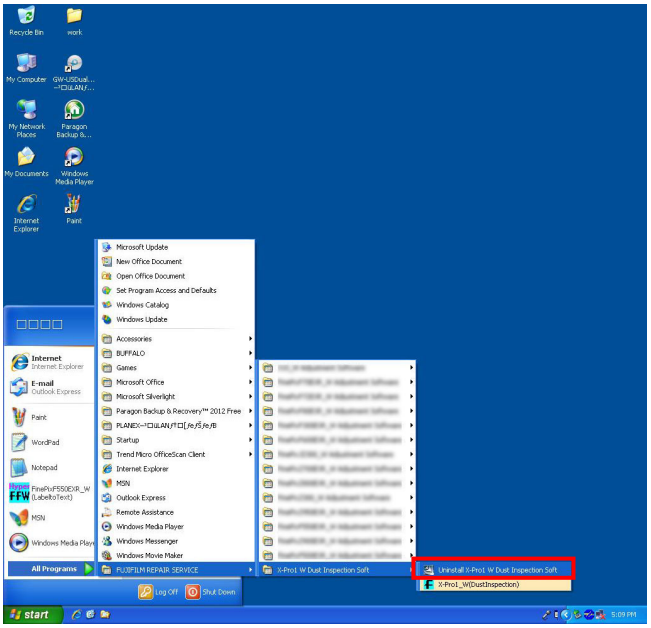
<Step 6>

When the installation completes and the window in the right appears, click [Finish].

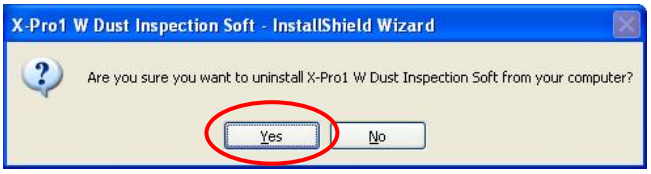


□4-6-3. Uninstalling X-Pro1 W Dust Inspection Soft Ver.*.**

<Step 1>
Click: Start
↓
Programs
↓
FUJIFILM REPAIR SERVICE
↓
X-Pro1 W Dust Inspection Soft
↓
Uninstall X-Pro1 W Dust Inspection Soft



<Step 2>
When the window in the right appears, click [Yes].
(Then, uninstallation begins.)



<Step 3>
When the uninstallation completes and the window in the right appears, click [OK].

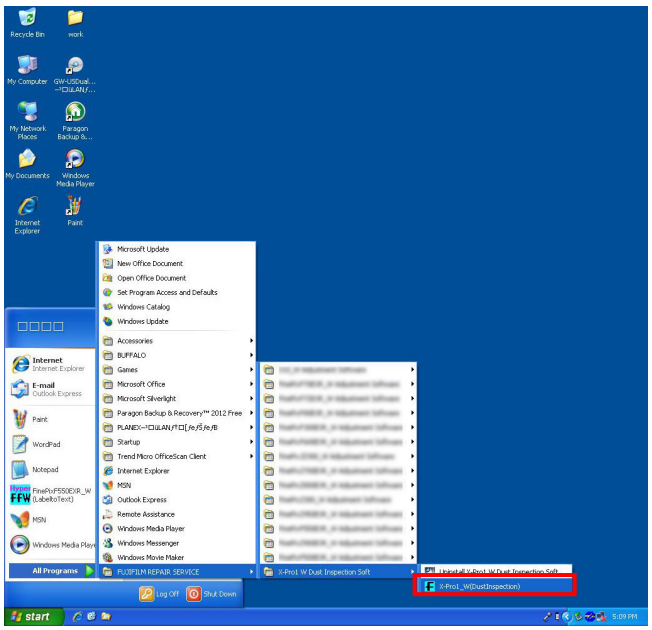


* In some cases, uninstalling the software does not remove all the files.
To completely remove all the files, delete the C:\X-Pro1_W_DustInspection folder after completing the uninstallation.

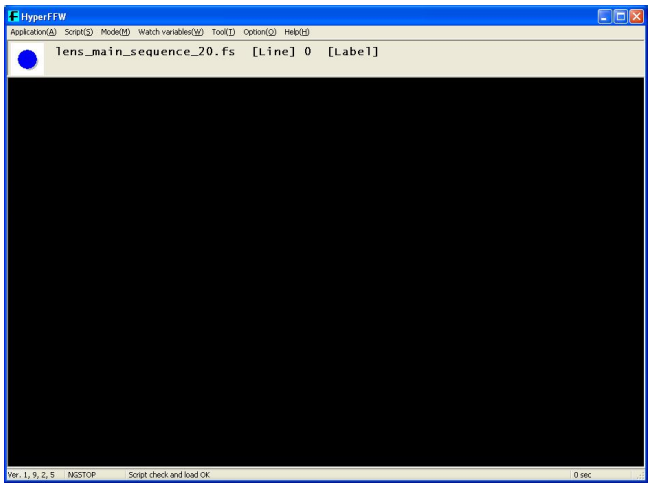
□4-6-4. Inspection of Dusts by the Shooting Test

<Step 1>
Mount XF35mmF1.4R lens on the camera.

<Step 2>
Click: Start
↓
Programs
↓
FUJIFILM REPAIR SERVICE
↓
X-Pro1 W Dust Inspection Soft
↓
X-Pro1_W(DustInspection)

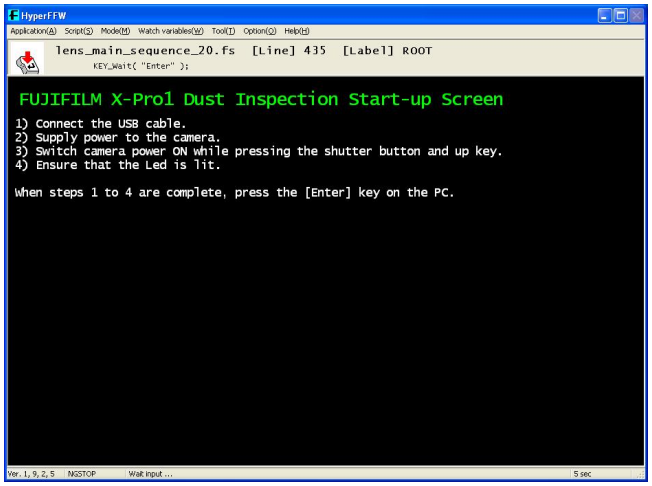


<Step 3>
If this procedure stops at the window in the right, press the [Enter] key to proceed.



<Step 4>
1. Connect the camera to the PC using the “USB cable”.
2. Supply power to the camera.
3. Turn the camera on while holding down the shutter button and selector up key (▲).
4. Confirm if the LED is on in green.

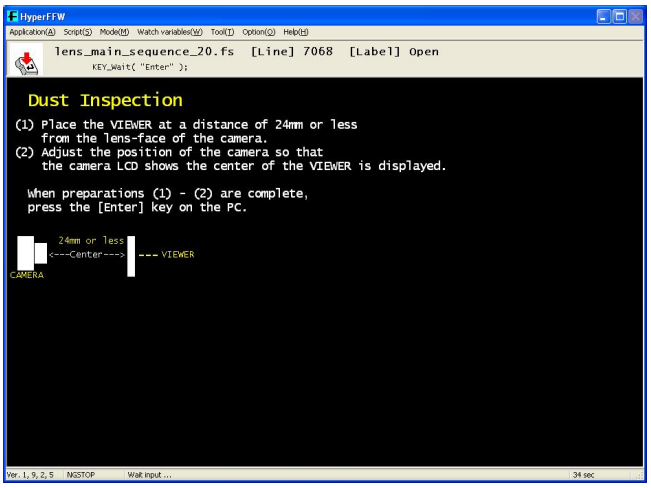
After completing steps 1 to 4, press the [Enter] key to proceed.



☐**<Step 5>**

(1) Place the VIEWER at a distance of 24mm or less from the lens-face of the camera.
(2) Adjust the position of the camera so that the camera LCD shows the center of the VIEWER is displayed.

After completing steps 1 to 2, press the [Enter] key to proceed.





<Step 6>
[OK]
If the inspection is OK, the window in the right will appear.



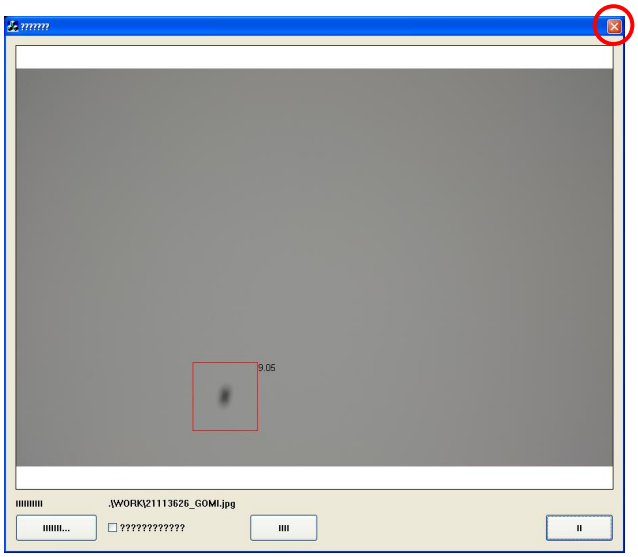
☐: Revised

□[NG]

If the inspection is NG, the window in the right will appear showing the location of dusts.



(1) Check the location of dusts and close the window.
(2) Remove dusts and inspect again.
    * The captured image is saved in C:\X-Pro1_W_DustInspection\SCRIPT\LX10\GOMI\JPG.



<Step 7>

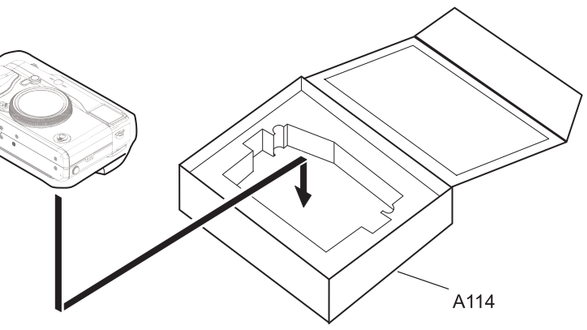
(1) Turn the camera off.
(2) Disconnect the USB cable from the camera.

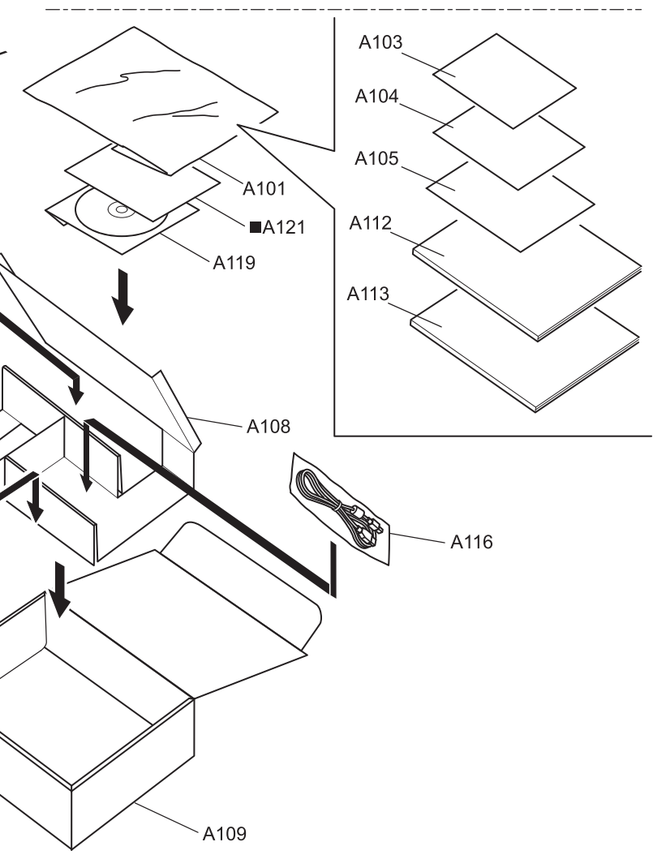
[Note]

In a normal environment, dusts could stick to the CMOS surface.
Therefore, customers could complain about dusts on the CMOS and ask you to remove them again just after you have removed the dusts and they use their cameras.
In order to prepare such cases, we recommend you to take pictures before and after you clean the CMOS. Depending on cases, we think you need to show those pictures to customers.

5 Parts List 1(Packing and Accessories)

5-1. US-Model

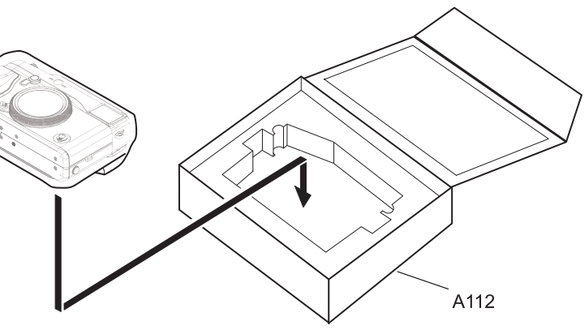


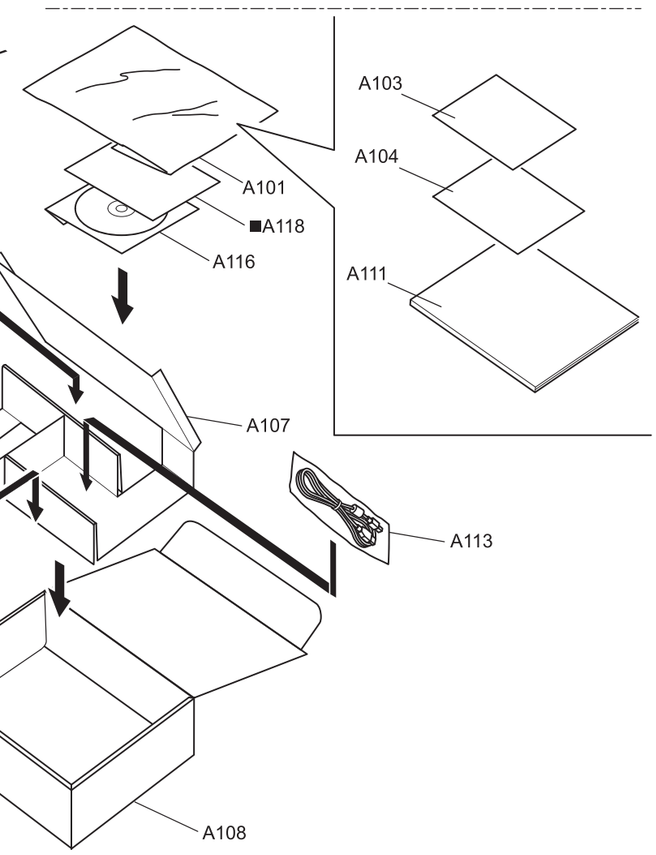


•Black model

	Ref No.	Parts No.	Description	Comment
	A101	FBB23163-100	MANUAL BAG	
	A102	FBB23194-100	BARCODE LABEL	
	A103	FBB23777-100	US WARRANTY CD-SIZE1	
	A104	FBB23779-100	US STOP CD-SIZE1	
	A105	FBB23781-100	WWN_PRINT CD-SIZE2	
	A106	FBB24290-100	LABEL PRODUCT W	
	A107	FBB24527-100	U.BOX Y-10241	
	A108	FBB24531-100	TRAY Y-10241	
	A109	FBB24634-100	ACC BOX Y-10241	
	A110	FBB24774-100	HDPE BAG 190×200	
	A111	FBF08577-100	UNIT BELT RING	
	A112	FBL01619-200	LX10 OM EN	
	A113	FBL01619-500	LX10 OM ES	
	A114	FBU04414-100	CAMERA BOX ASSY	
	A115	FFZ06894-101	AC POWERCORD	
	A116	FFZ08017-100	USB CABLE L60	
	A117	FFZ09206-200	BATTERYPACK NP-W126U	
	A118	FFZ09207-100	BATTERY CHARGER JU	
	A119	FFZ09208-101	LX10 CD-ROM	
	A120	FFZ09365-100	SHOULDER BELT Y10241	
■	A121	FBL01762-100	LX10_FWUP_INS	

■ Revised: Aug. 10, 2012





5-2. AS-Model

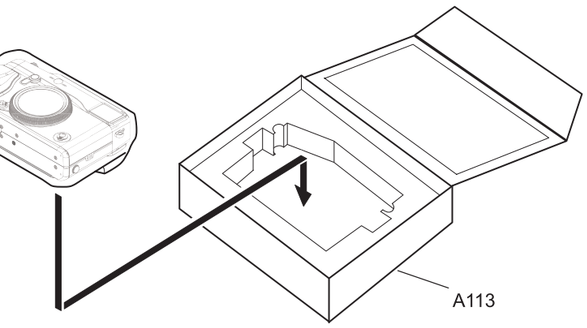
•Black model

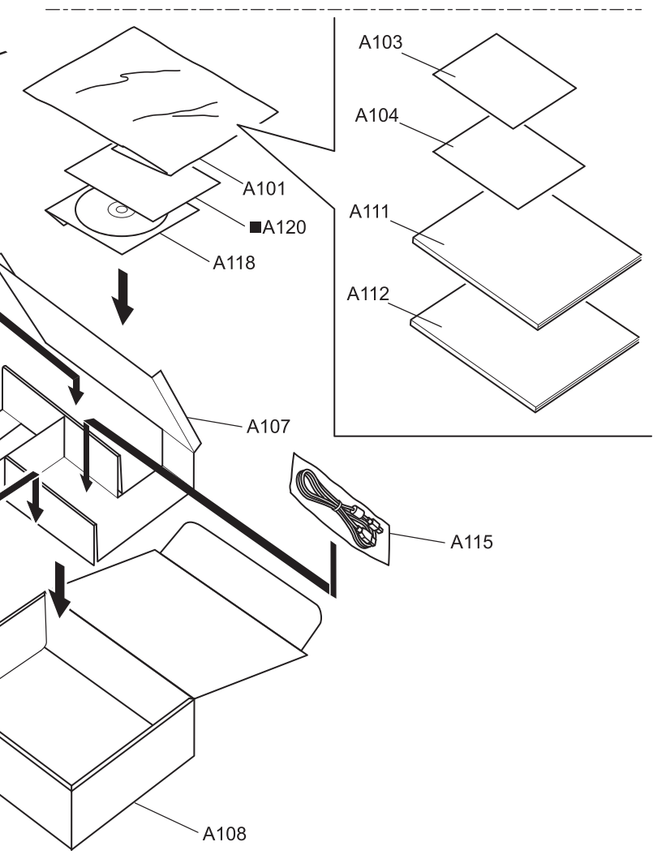
	Ref No.	Parts No.	Description	Comment
	A101	FBB23163-100	MANUAL BAG	
	A102	FBB23194-100	BARCODE LABEL	
	A103	FBB23334-100	PRG_ACC_CDSIZE_01	
	A104	FBB23781-100	WWN_PRINT CD-SIZE2	
	A105	FBB24290-200	LABEL PRODUCT E	
	A106	FBB24527-100	U.BOX Y-10241	
	A107	FBB24531-100	TRAY Y-10241	
	A108	FBB24634-100	ACC BOX Y-10241	
	A109	FBB24774-100	HDPE BAG 190×200	
	A110	FBF08577-100	UNIT BELT RING	
	A111	FBL01619-200	LX10 OM EN	
	A112	FBU04414-100	CAMERA BOX ASSY	
	A113	FFZ08017-100	USB CABLE L60	
	A114	FFZ09206-300	BATTERYPACK NP-W126W	
	A115	FFZ09207-200	BATTERY CHARGER WW	
	A116	FFZ09208-101	LX10 CD-ROM	
	A117	FFZ09365-100	SHOULDER BELT Y10241	
■	A118	FBL01762-100	LX10_FWUP_INS	

5-3. E1-Model

•Black model

Ref No.	Parts No.	Description	Comment
A101	FBB23163-100	MANUAL BAG	
A102	FBB23193-100	BARCODE LABEL	
A103	FBB23334-100	PRG ACC CDSIZE 01	
A104	FBB23781-100	WWN PRINT CD-SIZE2	
A105	FBB24290-200	LABEL PRODUCT E	
A106	FBB24527-100	U.BOX Y-10241	
A107	FBB24531-100	TRAY Y-10241	
A108	FBB24634-100	ACC BOX Y-10241	
A109	FBB24774-100	HDPE BAG 190×200	
A110	FBF08577-100	UNIT BELT RING	
A111	FBL01619-300	LX10 OM FR	
A112	FBL01619-400	LX10 OM DE	
A113	FBU04414-100	CAMERA BOX ASSY	
A114	FFZ06708-301	AC POWERCORD	
A115	FFZ08017-100	USB CABLE L60	
A116	FFZ09206-300	BATTERYPACK NP-W126W	
A117	FFZ09207-200	BATTERY CHARGER	
A118	FFZ09208-101	LX10 CD-ROM	
A119	FFZ09365-100	SHOULDER BELT Y10241	
■ A120	FBL01762-100	LX10 FWUP INS	



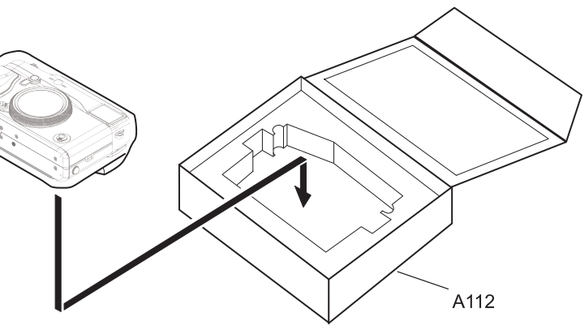


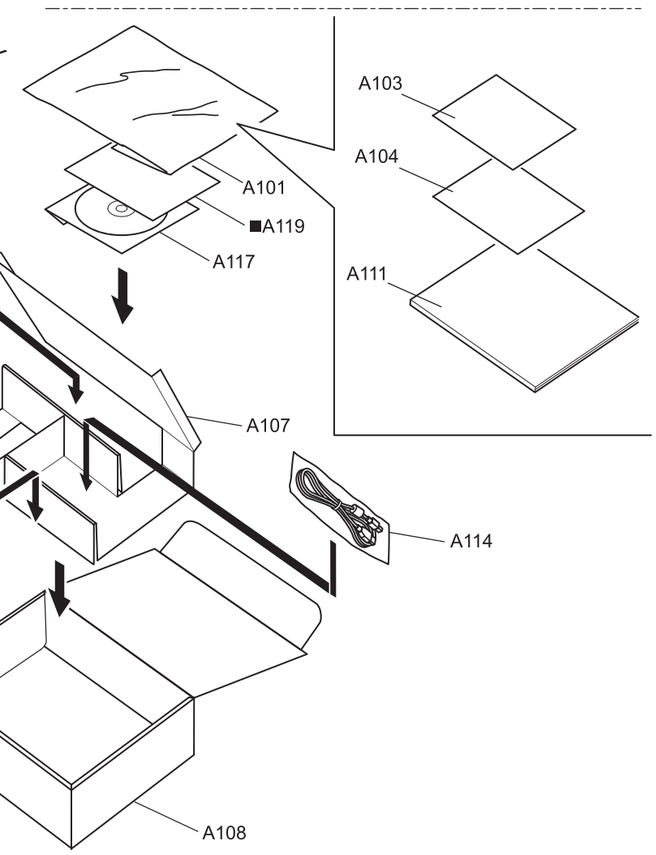
■ Revised: Aug. 10, 2012

5-4. EE-Model

•Black model

Ref No.	Parts No.	Description	Comment
A101	FBB23163-100	MANUAL BAG	
A102	FBB23193-100	BARCODE LABEL	
A103	FBB23334-100	PRG ACC CDSIZE 01	
A104	FBB23781-100	WWN PRINT CD-SIZE2	
A105	FBB24290-200	LABEL PRODUCT E	
A106	FBB24527-100	U.BOX Y-10241	
A107	FBB24531-100	TRAY Y-10241	
A108	FBB24634-100	ACC BOX Y-10241	
A109	FBB24774-100	HDPE BAG 190×200	
A110	FBF08577-100	UNIT BELT RING	
A111	FBL01619-200	LX10 OM EN	
A112	FBU04414-100	CAMERA BOX ASSY	
A113	FFZ06708-301	AC POWERCORD	
A114	FFZ08017-100	USB CABLE L60	
A115	FFZ09206-300	BATTERYPACK NP-W126W	
A116	FFZ09207-200	BATTERY CHARGER WW	
A117	FFZ09208-101	LX10 CD-ROM	
A118	FFZ09365-100	SHOULDER BELT Y10241	
■ A119	FBL01762-100	LX10 FWUP INS	



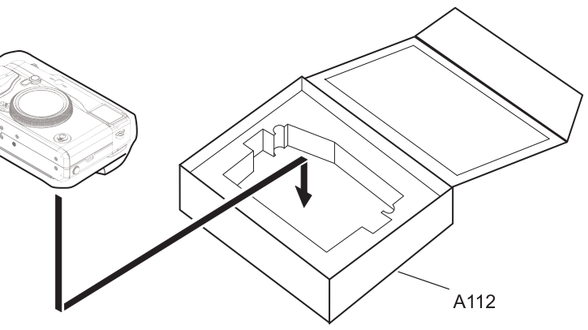


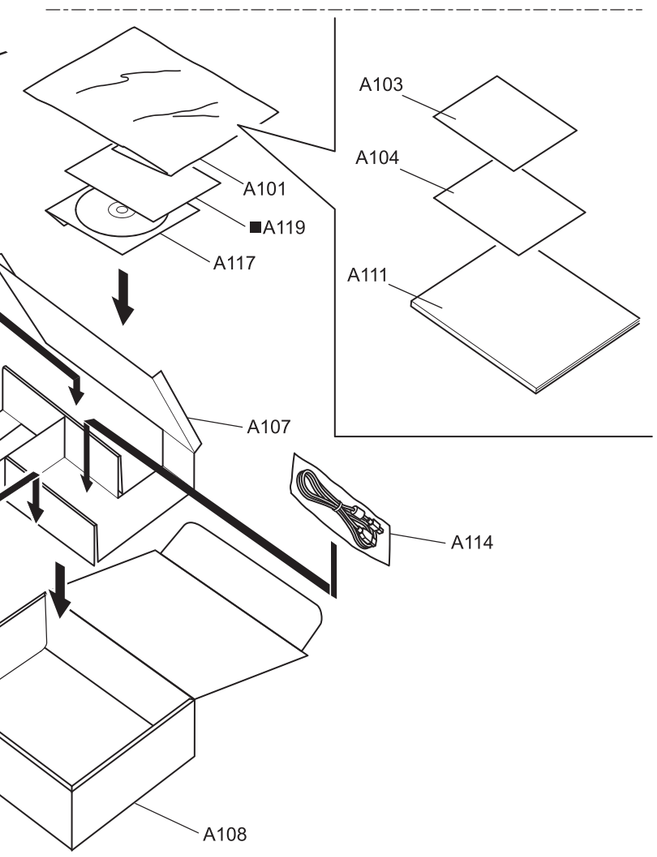
■ Revised: Aug. 10, 2012

5-5. EG-Model

•Black model

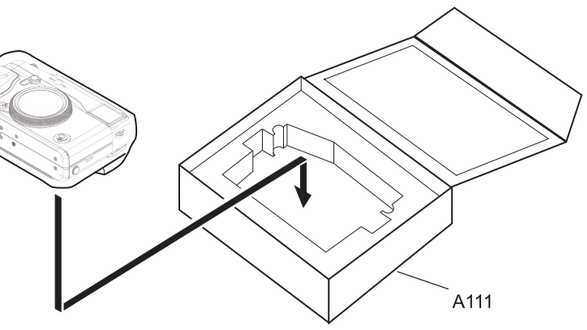
Ref No.	Parts No.	Description	Comment
A101	FBB23163-100	MANUAL BAG	
A102	FBB23193-100	BARCODE LABEL	
A103	FBB23334-100	PRG ACC CDSIZE 01	
A104	FBB23781-100	WWN PRINT CD-SIZE2	
A105	FBB24290-200	LABEL PRODUCT E	
A106	FBB24527-100	U.BOX Y-10241	
A107	FBB24531-100	TRAY Y-10241	
A108	FBB24634-100	ACC BOX Y-10241	
A109	FBB24774-100	HDPE BAG 190×200	
A110	FBF08577-100	UNIT BELT RING	
A111	FBL01619-200	LX10 OM EN	
A112	FBU04414-100	CAMERA BOX ASSY	
A113	FFZ06708-401	AC POWERCORD	
A114	FFZ08017-100	USB CABLE L60	
A115	FFZ09206-300	BATTERYPACK NP-W126W	
A116	FFZ09207-200	BATTERY CHARGER WW	
A117	FFZ09208-101	LX10 CD-ROM	
A118	FFZ09365-100	SHOULDER BELT Y10241	
■ A119	FBL01762-100	LX10 FWUP INS	

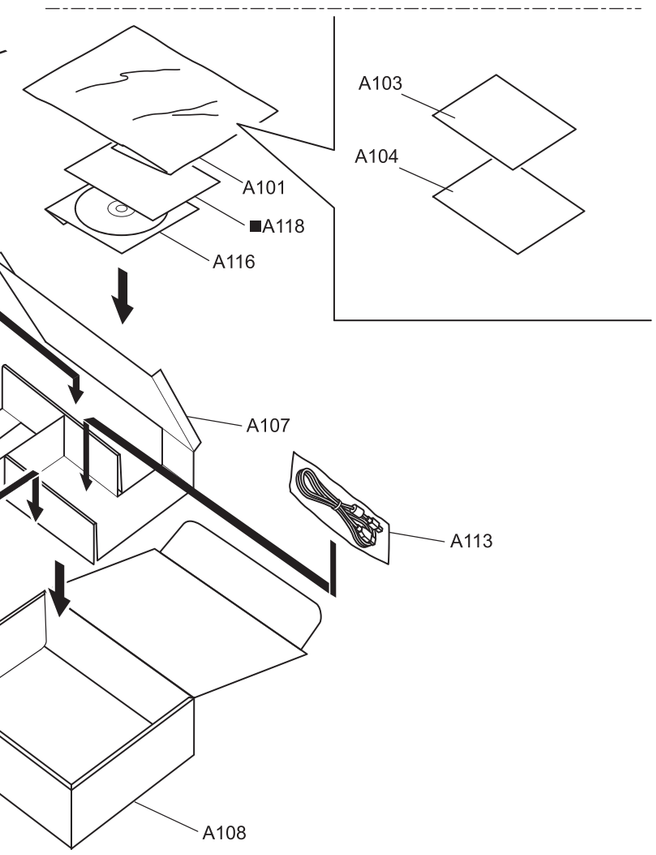




■ Revised: Aug. 10, 2012

5-6. EU-Model





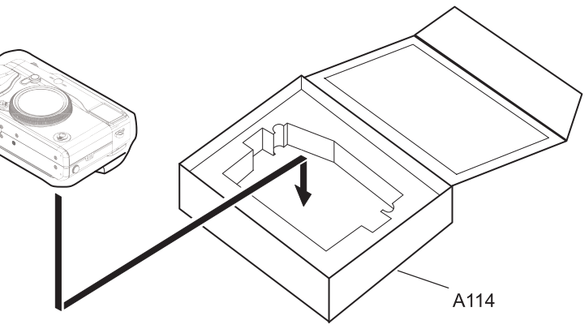
•**Black model**

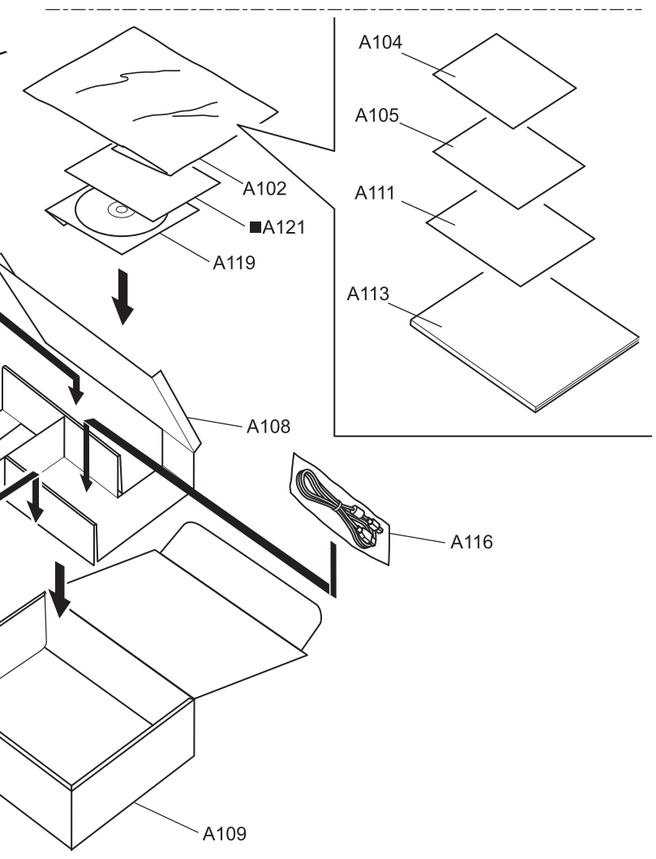
Ref No.	Parts No.	Description	Comment
A101	FBB23163-100	MANUAL BAG	
A102	FBB23193-100	BARCODE LABEL	
A103	FBB23334-100	PRG_ACC_CDSIZE_01	
A104	FBB23781-100	WWN_PRINT CD-SIZE2	
A105	FBB24290-200	LABEL PRODUCT E	
A106	FBB24527-100	U.BOX Y-10241	
A107	FBB24531-100	TRAY Y-10241	
A108	FBB24634-100	ACC BOX Y-10241	
A109	FBB24774-100	HDPE BAG 190×200	
A110	FBF08577-100	UNIT BELT RING	
A111	FBU04414-100	CAMERA BOX ASSY	
A112	FFZ06708-301	AC POWERCORD	
A113	FFZ08017-100	USB CABLE L60	
A114	FFZ09206-300	BATTERYPACK NP-W126W	
A115	FFZ09207-200	BATTERY CHARGER	
A116	FFZ09208-101	LX10 CD-ROM	
A117	FFZ09365-100	SHOULDER BELT Y10241	
■ A118	FBL01762-100	LX10_FWUP_INS	

5-7. RU-Model

•Black model

Ref No.	Parts No.	Description	Comment
A101	FBB21384-101	RU STICKER	
A102	FBB23163-100	MANUAL BAG	
A103	FBB23193-100	BARCODE LABEL	
A104	FBB23334-100	PRG_ACC_CDSIZE_01	
A105	FBB23781-100	WWN_PRINT CD-SIZE2	
A106	FBB24290-200	LABEL PRODUCT E	
A107	FBB24527-100	U.BOX Y-10241	
A108	FBB24531-100	TRAY Y-10241	
A109	FBB24634-100	ACC BOX Y-10241	
A110	FBB24774-100	HDPE BAG 190×200	
A111	FBB24776-100	Russia-Warranty	
A112	FBF08577-100	UNIT BELT RING	
A113	FBL01619-K00	LX10 OM RU	
A114	FBU04414-100	CAMERA BOX ASSY	
A115	FFZ06708-301	AC POWERCORD	
A116	FFZ08017-100	USB CABLE L60	
A117	FFZ09206-300	BATTERYPACK NP-W126W	
A118	FFZ09207-200	BATTERY CHARGER	
A119	FFZ09208-101	LX10 CD-ROM	
A120	FFZ09365-100	SHOULDER BELT Y10241	
■ A121	FBL01762-100	LX10_FWUP_INS	



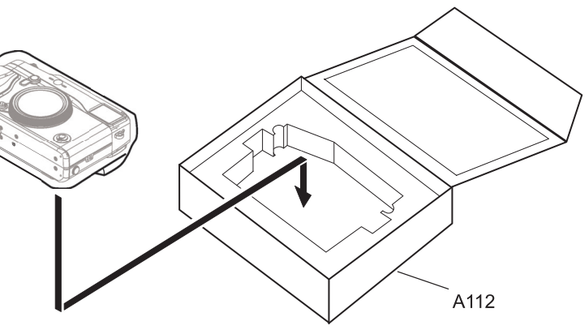


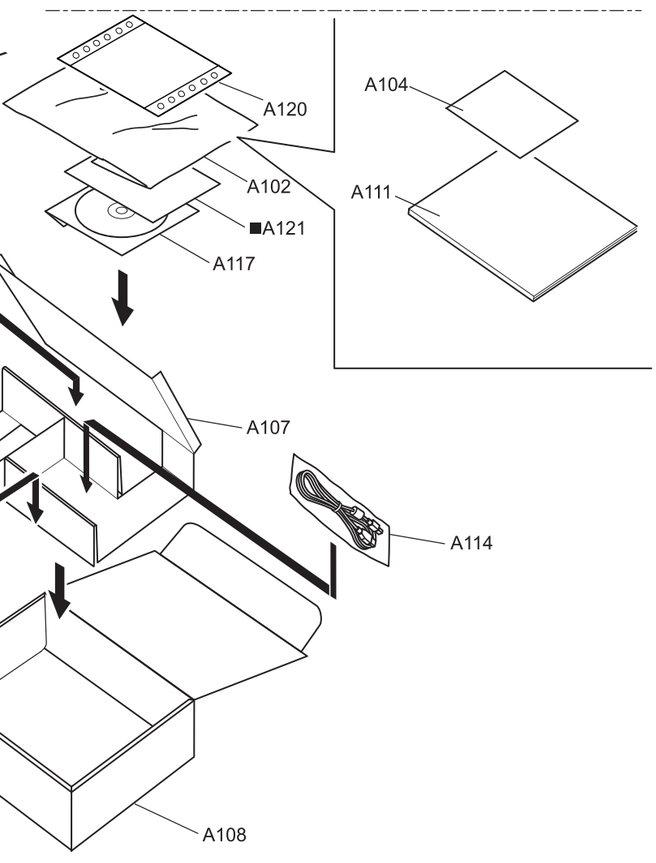
■ Revised: Aug. 10, 2012

5-8. CH-Model

•Black model

	Ref No.	Parts No.	Description	Comment
	A101	FBB19104-105	正規品証明シール	
	A102	FBB23163-100	MANUAL BAG	
	A103	FBB23193-100	BARCODE LABEL	
	A104	FBB23780-101	CH SERVICE NETWORK 1	
	A105	FBB24290-100	LABEL PRODUCT W	
	A106	FBB24527-200	U.BOX Y-10249	
	A107	FBB24531-100	TRAY Y-10241	
	A108	FBB24634-100	ACC BOX Y-10241	
	A109	FBB24774-100	HDPE BAG 190×200	
	A110	FBF08577-100	UNIT BELT RING	
	A111	FBL01619-600	LX10 OM ZHS	
	A112	FBU04414-100	CAMERA BOX ASSY	
	A113	FFZ05432-401	POWER SUPPLY CORD	
	A114	FFZ08017-100	USB CABLE L60	
	A115	FFZ09206-300	BATTERYPACK NP-W126W	
	A116	FFZ09207-200	BATTERY CHARGER	
	A117	FFZ09208-101	LX10 CD-ROM	
	A118	FFZ09365-100	SHOULDER BELT Y10241	
	A119	FBB23686-100	U.BOX VOID SEAL	
	A120	FBB23778-100	WARRANTY CN CD-SIZE	
■	A121	FBL01762-100	LX10_FWUP_INS	



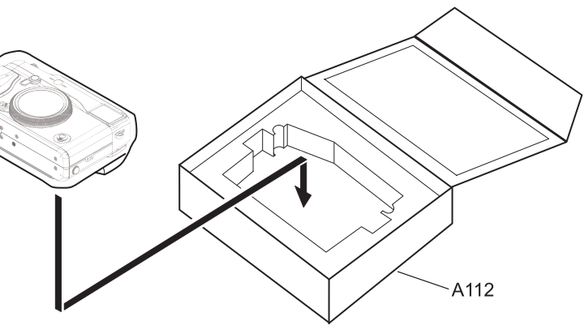


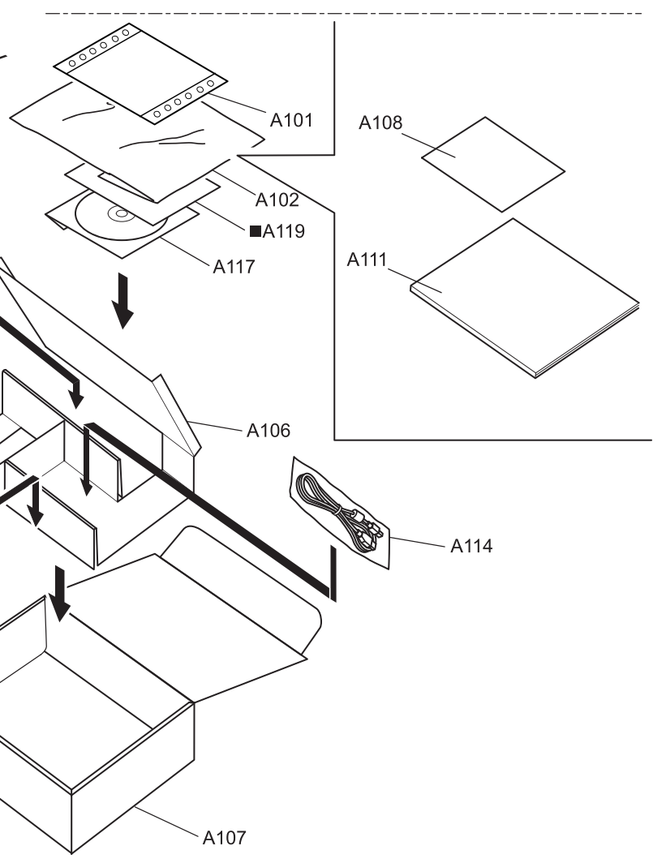
■ Revised: Aug. 10, 2012

5-9. JP-Model

•Black model

	Ref No.	Parts No.	Description	Comment
	A101	FBB21304-100	WARRANTY JP	
	A102	FBB23163-100	MANUAL BAG	
	A103	FBB23193-100	BARCODE LABEL	
	A104	FBB24290-100	LABEL PRODUCT W	
	A105	FBB24527-100	U.BOX Y-10241	
	A106	FBB24531-100	TRAY Y-10241	
	A107	FBB24634-100	ACC BOX Y-10241	
	A108	FBB24773-100	My FUJIFILM paper	
	A109	FBB24774-100	HDPE BAG 190×200	
	A110	FBF08577-100	UNIT BELT RING	
	A111	FBL01619-100	LX10 OM JP	
	A112	FBU04414-100	CAMERA BOX ASSY	
	A113	FFZ06708-100	AC POWERCORD	
	A114	FFZ08017-100	USB CABLE L60	
	A115	FFZ09206-100	BATTERYPACK NP-W126J	
	A116	FFZ09207-100	BATTERY CHARGER	
	A117	FFZ09208-101	LX10 CD-ROM	
	A118	FFZ09365-100	SHOULDER BELT Y10241	
■	A119	FBL01762-100	LX10_FWUP_INS	



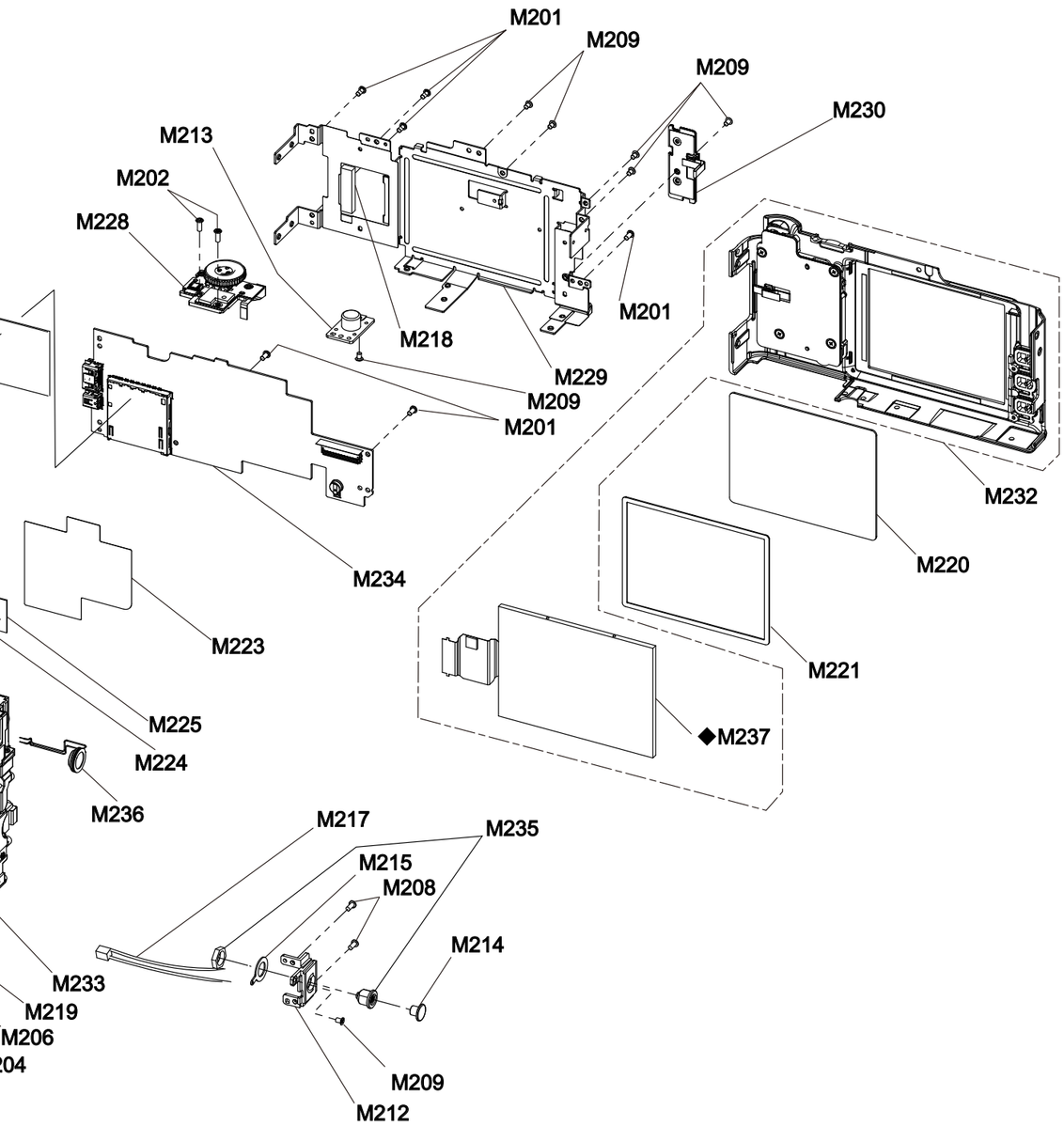


■ Revised: Aug. 10, 2012

6. Parts List 2(Mechanical Block)

6-1. US/AS/E1/EE/EG/EU/RU/CH/JP-Model

（X-Pro1）

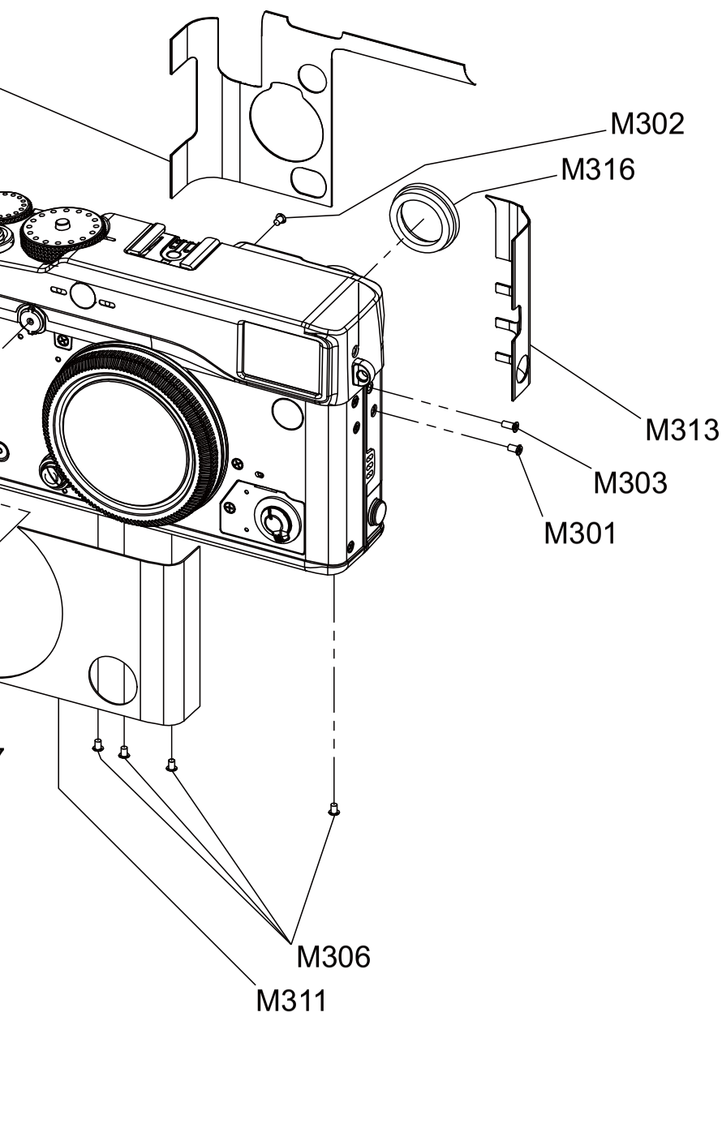


・ **Black model**

Ref No.	Parts No.	Description	Commen
M201	FBB17681-300	BT2M1.7X3.5	
M202	FBB17681-600	BT2M1.7X5.0	
M203	FBB20523-100	MSAM1.4X2.5N	
M204	FBB20592-100	N-MS2M1.7X3.0	
M205	FBB20921-100	N-MSGM1.7X2.5	
M206	FBB20921-400	N-MSGM1.7X4.0	
N.S.	FBB21217-300	MS2M1.7X3.5	
M208	FBB21217-400	MS2M1.7X4.0	
M209	FBB22744-100	MSGM1.7X2.5	
M210	FBB24071-100	N-MSGM1.7X2.5D	
M211	FBB24119-100	COVER BATTERY	
M212	FBB24146-100	HOLDER SYNCHRO	
M213	FBB24148-100	TRIPOD SCREW	
M214	FBB24156-100	COVER SYNCHRO	
M215	FBB24157-100	PLATE SYNCHRO	
M216	FBB24166-300	CAP BODY	
M217	FBB24260-100	HARNESS SY BK	
M218	FBB24269-100	CUSHION CN LCD	
M219	FBB24270-100	SHEET COVER FPS	
M220	FBB24285-100	WINDOW LCD	
M221	FBB24286-100	CUSHION　LCD	
M222	FBB24287-100	SHEET FRONT	
M223	FBB24303-100	SHEET INSULATE SINK	
M224	FBB24717-100	SHEET CU SINK	
M225	FBB24718-100	SHEET COND SINK	
M226	FBF09457-100	CONST ASSY FRONT	
M227	FBF09461-100	CONST BATT	
M228	FBF09462-100	CONST FPC COMMAND	
M229	FBF09463-100	CONST FRAME MAIN	
M230	FBF09464-100	CONST PWB SIDE	
M231	FBF09465-100	CONST TOP	
M232	FBF09466-100	CONST REAR	
M233	FBF09480-100	UNIT MOUNT	
M234	FCB2301-A100	Y-10241MAINPWB ASSY	
M235	FFZ06350-101	SYNCHRO TERMINAL	
M236	FFZ09111-100	SPEAKER	
◆ M237	FFZ09198-100	LCD	

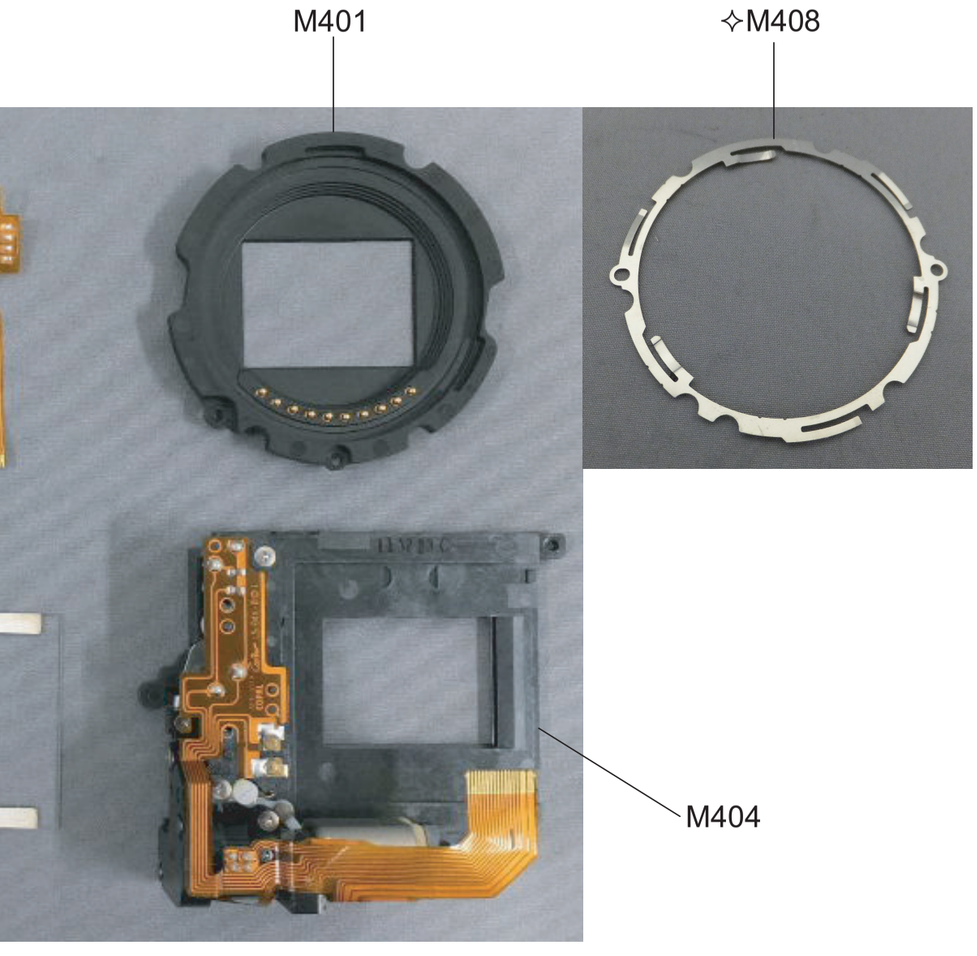
◆: Revised

☆ Revised: 13.April.2012



・ **Black model**

Ref No.	Parts No.	Description	Comment
M301	FBB20592-100	N-MS2M1.7X3.0	
M302	FBB20921-100	N-MSGM1.7X2.5	
M303	FBB20921-400	N-MSGM1.7X4.0	
M304	FBB21217-300	MS2M1.7X3.5	
M305	FBB22550-A00	MS2M1.4X2.0	
M306	FBB24071-100	N-MSGM1.7X2.5D	
M307	FBB24110-100	LEVER FINDER	
M308	FBB24142-100	BASE GRIP F	
M309	FBB24144-100	GRIP F	
M310	FBB24249-100	SHEET GRIP F RIGHT	
M311	FBB24250-100	SHEET GRIP F LEFT	
M312	FBB24251-100	SHEET GRIP R RIGHT	
M313	FBB24252-100	SHEET GRIP R LEFT	
M314	FBB24288-100	DECO PLATE LEVER	
M315	FBB24289-100	TAPE GRIP F	
M316	FFZ09210-100	UNIT RING FINDER	



★	Ref No.	Parts No.	Description	Commen
	M401	FBF09588-100	HOLDER MOUNT ASSY	
	M402	FFZ09378-100	Y-10241 MOUNT FPC	
	M403	FBB24173-100	MASK MOUNT	
	M404	FFZ09105-100	FP SHUTTER	
	M405	FBF09591-100	DR GLASS UNIT	
	M406	FBB24452-100	TAPE FPC	
	M407	FBB24178-100	SHEET CU	
✧	M408	FBB24168-200	PSP MOUNT	

✧: Revised

★: Revised

7. Electrical parts

[Note]

The components indicated by mark ⚠ are critical for safety. When indicated parts by reference number, please include the board name.

* Due to standardization, replacement in the parts list may be different from the parts list specified in the circuit or the components used on the set.
*Do not reuse removed parts. Always use new parts.

Ref No.	Parts No.	Description	Comment	PWB diagram
		MAIN PWB ASSY		
[FUSE]				
⚠ F501	FFP00039-403	FUSE		
[BATTERY]				
BT151	FFZ07531-100	BACKUP BATTERY		
		SHOE FPC ASSY		
[LED]				
-	FFQDL0155-01	LED		

MEMO

8. Appendix

8-1. List of Related Technical Updates Issued

To ensure that after-sales service is performed accurately, keep a record here of the technical updates issued that cover this device.

Technical Update No.	Date	Title	Details/Other
2012-029	21. Jan, 2012	Service manual revision	Revised pages: P1-23 to P1-36
2012-058	13. Apr, 2012	Service manual revision	Revised pages: P1-21 to P1-22, P1-36, P3-4, P3-12, P3-14, P3-16, P3-18, P3-20, P3-24, P3-26, P3-28, P3-31, P3-36, P6-1
2012-074	20. Apr, 2012	Service manual revision	Revised pages: P4-1, P4-8 Addition pages: P1-37 to P1-38
2012-123	27. Jun, 2012	Service manual revision	Revised pages: P3-19, P3-34 and P3-35
2012-143	10. Aug, 2012	Service manual revision	Revised pages: P5-1 to P5-9
2012-181	03 Sep 2012	Addition of the Inspection software and revision of service manual	□ Revised pages: P4-1 and P4-9 to P4-14
2012-246	21 Dec 2012	Revision of Service Manual	◆ Revised page: P6-1
2013-108	01 Jul 2013	Revision of Service Manual	✶ Revised page: P1-18 to P1-27, P1-33 to P1-34 and P6-3
2013-212	17 Oct 2013	Revision of Service Manual	✧ Revised page: P3-2 and P6-3

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