

**SAMSUNG**

# DIGITAL CAMERA

**NX30**

# **SERVICE** *Manual*

DIGITAL CAMERA

CONTENTS



1. Repair information
2. Product specifications
3. Disassembly and reassembly
4. Troubleshooting
5. PCB diagram
6. Block diagram
7. Firmware update
8. Adjustment
9. Exploded view and parts list

## 1. Repair information

- 1-1 Warranty and repair service information..... 1-1
- 1-2 Precaution for disassembly and reassembly..... 1-4

## 2. Product specifications

- 2-1 Specifications ..... 2-1
- 2-2 Product comparison ..... 2-2
- 2-3 Accessories information ..... 2-3
- 2-4 About the memory card ..... 2-6
- 2-5 About the battery ..... 2-7

## 3. Disassembly and reassembly

- 3-1 Disassembly ..... 3-1
  - 3-1-1 General support - Disassembly..... 3-1
  - 3-1-2 Technical expertise support - Disassembly ..... 3-20
- 3-2 Reassembly ..... 3-26
  - 3-2-1 Technical expertise support - Reassembly ..... 3-26
  - 3-2-2 General support - Reassembly ..... 3-32

## 4. Troubleshooting

- 4-1 Regarding to memory card recognition..... 4-1
- 4-2 Regarding to MAIN PCB connection ..... 4-2
- 4-3 Regarding to TOP ..... 4-3
- 4-4 Regarding to image display ..... 4-4
- 4-5 Regarding to voice playback and recording ..... 4-4
- 4-6 Regarding to NFC / WIFI do not work. .... 4-5
- 4-7 Regarding to WiFi connection..... 4-5

## 5. PCB diagram

- 5-1 MAIN PCB ..... 5-1
- 5-2 CIS PCB..... 5-1
- 5-3 SPEAKER PCB ..... 5-2
- 5-4 POWER\_KEY PCB..... 5-2
- 5-5 DIAL PCB ..... 5-3
- 5-6 EVF FPCB ..... 5-3
- 5-7 HINGE PCB..... 5-3
- 5-8 LENS PCB..... 5-3
- 5-9 STROBO PCB ..... 5-4
- 5-10 TOP PCB ..... 5-4

## 6. Block diagram

## 7. Firmware update

|  |     |
|--|-----|
| 7-1 Factory data reset.....                  | 7-1 |
| 7-2 Firmware update by using user menu ..... | 7-4 |
| 7-3 Firmware update by using CS menu .....   | 7-6 |
| 7-4 How to recover the MAIN PCB.....         | 7-9 |

## 8. Adjustment

|   |      |
|---|------|
| 8-1 Adjustment items .....                          | 8-1  |
| 8-2 Test Mode.....                                  | 8-2  |
| 8-3 CIS TILT Adjustment .....                       | 8-4  |
| 8-4 CIS DOT Data Input & SHUTTER Adjustment.....    | 8-5  |
| 8-5 ISO Adjustment.....                             | 8-10 |
| 8-6 AWB Adjustment .....                            | 8-10 |
| 8-7 VFPA & CMOS Defect Adjustment.....              | 8-11 |
| 8-8 Color Shading Adjustment.....                   | 8-12 |
| 8-9 EFS (Electronic First Shutter) Adjustment ..... | 8-13 |
| 8-10 Country setting (Wi-Fi) .....                  | 8-14 |
| 8-11 S/N, Mac address Input.....                    | 8-14 |
| 8-12 PAF (Phase AF) Adjustment .....                | 8-15 |
| 8-13 NFC Tag Information Record .....               | 8-17 |
| 8-14 Adjustment data Image Storage .....            | 8-20 |

## 9. Exploded view and parts list

|                                 |      |
|---------------------------------|------|
| 9-1 ASSY BODY .....             | 9-1  |
| 9-2 ASSY MAIN-SUB .....         | 9-2  |
| 9-3 ASSY SPEAKER-DRS PCB .....  | 9-3  |
| 9-4 ASSY COVER-FRONT .....      | 9-4  |
| 9-5 ASSY CHAMBER.....           | 9-6  |
| 9-6 ASSY CMOS.....              | 9-7  |
| 9-7 ASSY GRIP-FRONT .....       | 9-8  |
| 9-8 ASSY COVER TOP .....        | 9-9  |
| 9-9 ASSY COVER TOP AS .....     | 9-10 |
| 9-10 ASSY TOP-HOLDER FPCB ..... | 9-11 |
| 9-11 ASSY COVER-BACK .....      | 9-12 |
| 9-12 ASSY-OLED HINGE .....      | 9-13 |

# 1. Repair information

## 1-1 Warranty and repair service information

### (1) General terms and conditions

It is guaranteed to be free of charge from defects in material and workmanship under normal use for a period of one year from date of purchase.

Digital Camera and lens come with a one year limited warranty from the date of purchase.

**\* The duration of the warranty depends on the laws in the country in which it was purchased.**

The following information will be required to process warranty requests:

- a. We imply warranties to one year from the original date of purchase. In the event that the purchaser is unable to provide a warranty card or proof of purchase, the warranty period will be determined by the date of manufacture. The warranty period shall be decreased to three months from the original product manufactured date.
- b. The coverage under this warranty begins on the date of your purchase of the product. In the event that a warranty card or proof of purchase is not available, a purchase receipt, preferably the purchase invoice, to confirm the date of purchase is required for warranty service.
- c. In the event that a valid date of purchase is not available, the warranty period will be determined by the date of manufacture. The warranty period shall be decreased to three months from the original product manufactured date.

### (2) Limited Warranty

It reserves the right to retain any parts or components replaced at its discretion in the event of a defect noticed in the product. The period with respect to retaining components may vary respectively depending on its components. We are not liable to repair or replace its faulty product after the Warranty Period has expired.

**\* We warrant its retaining camera and lenses for five years and three years for the accessories.**

- a. If a warranty claim is filed after the product has been discontinued, we reserves the right to honor the components warranty. Warranty period may vary depending on the type of components.
- b. In the event that no identical warranty information is available for service repair, company has the right to provide warranty. The warranty does not affect the consumers' rights against the company related to its information.

For the length of the period indicated on the chart below, it starts with the date of original purchase.



### (3) Warranty Period for components

Our liability under this warranty shall be limited to the following:

- a. In the event of a same malfunction problem within two months after repair service by Samsung authorized technician, we will repair or replace free of charge the component of the product which is found to be defective.
- b. In the event of the component that you have paid the replacement cost is returned under normal use within one year at our premises, such components will be replaced free of charge component of the product which is found to be defective.

<Table 1-1 Warranty Periods for Parts>

| Part Name        | Warranty Period |
|------------------|-----------------|
| Battery Charger  | Six months      |
| AC Adaptor       |                 |
| Battery          |                 |
| Remote Control   |                 |
| CD Software      | Three months    |
| Earphone         |                 |
| Pouch for camera | Not applicable  |
| Cable            |                 |

### (4) Repair Claims

#### 1) Repair free of charge

Essentially, the following causes of damage are covered:

- a. Failing to function properly under normal use during the limited warranty period.
- b. Repair Services free of charge is granted for the performance of a specific contract.

#### 2) Repair charges

This warranty does not cover damage caused by:

- a. Defect occurring after the expiration of the Warranty Period.
- b. Damage due to negligence, immersion in water, impact, loss and tampering.
- c. Repair or alteration performed by any party other than Samsung authorized technicians.
- d. Misuse or other improper use of the power button.
- e. Exhausted parts such as batteries, lamps and filters, etc.
- f. Defect that occurs due to sand, dirt liquid, etc. entering the inside of the product casing.
- g. Consumable parts which have ceased working through normal use such as as earphone, battery discharger and various accessories.
- h. Products purchased second hand or any damage that occurs due to a second hand or repair performed by anyone other than Samsung or a Samsung authorized service station.
- i. Fire, earthquake, flood or other natural disasters.  
The warranty cover period for components is listed below as per table 1-2.

&lt;Table 1-2 Warranty Period for components&gt;

| Types of consumer damages   |   | Compensation  |   |  |
|---|---|---|---|--|
| Failing to perform or failing to function properly under normal use   | Required for essential repair within 10 days after the purchase   |   | Replace the product or refund<br>-                                |  |
|   | Required for essential repair within one month after the purchase   |   | Replace the product or repair at free of charge<br>Repair charges |  |
|   | Applicable to repair  | Problem occurred twice due to same malfunction            | Free of charge  |  |
|   |   | Problem occurred three times due to same malfunction      | Replace the product or refund                                     | Repair charges   |
|   |   | Problem occurred four times due to some other malfunction |   |  |
|   | Not applicable to repair  | Within the period with respect to retaining components    |   | Replace the product at the cost of the depreciated value or refund its price added 10% of depreciation |
| Failing to perform or failing to function properly as a result of willful intent and negligence of customer | Applicable repair   |   | Repair charges  |  |
|   | Not applicable to repair<br>(Except for defects or malfunction as a result of fire or flood or other natural disasters) |   | Replacement charge  | Repair charge and replace the product at the cost of the depreciated value                             |

## 1-2 Precaution for disassembly and reassembly



### CAUTION

1. Use the anti-static handling procedures included with the anti-static mat to ensure that there is no electrostatic discharge and component damage.
2. Static electricity is the biggest danger to the PCB parts you are about to disassemble or assemble. It's important to use your anti-static wrist strap to prevent damage to these components.
3. Dismantling a discrete electronic component such as main capacitor is dangerous.  
The capacitor contains high voltage, which can cause a severe electric shock if you touch it. This holds a charge even when the unit is not plugged in and is capable of delivering a fatal shock.
4. Using excessive force during disassembly and assembly can damage locking parts. Use care when handling "Locking parts" to avoid damage to FPCB or wire. Apply pressure only at the points designated in the maintenance instructions.
5. Due to increasing environmental concerns, a number of restrictions have been placed on the material content of electronic components and electronic assemblies. It requires utilizing Lead-Free (Pb-free) Soldering.
6. The following precautions must be observed when handling such components below.

<Table 1-3>

| Component                                | Precautions  |
|--|--|
| FPCB                                     | FPCB is brittle material. It can be easily damaged thus it should be handled with care. It is recommended to use wooden or plastic tweezers for manual placement.  |
| CCD (CMOS)<br>IR CUT Filter<br>LCD, LENS | Be careful not to stained your finger. It is recommended to use wooden or plastic tweezers for manual placement. Stain is often caused by the Alcohol used in these components. Find a clean, well-ventilated place to do your work. |
| PCB                                      | Use an anti-static mat as well as an anti-static wrist strap to avoid ESD damage to PCB.   |
| CONNECTOR                                | The use wooden or plastic tweezers is recommended for manual placement. Metal tip tweezer might make marks or damage.  |
| BARREL                                   | Always follow proper direction while assembling the components of the barrel.  |

## 2. Product specifications

### 2-1 Specifications

| Image Sensor   |   |
|--|---|
| Type(size)   | CMOS(23.5 X 15.7mm)   |
| Effective/ Total pixels  | Approx. 20.3 mega-pixels/ Approx. 21.6 mega-pixels  |
| Lens Mount   |   |
| Type/ Available lens   | Samsung NX Mount/ Samsung lenses  |
| Image Stabilization  |   |
| Type/ Mode   | Lens shift (depends on lens)/ Off/Mode 1/Mode 2   |
| i-Function   |   |
| ⓪Depth, ⓪Zoom (X1.2, 1.4, 1.7, 2.0), ⓪Contrast   |   |
| Dust Reduction   |   |
| Type   | Super sonic drive   |
| Display  |   |
| Type/ Size   | HBM AMOLED with Touch Panel (C-type Touch Control Enabled), 3.0" (Approx. 76.7 mm)  |
| Resolution   | FVGA (720X480) 1036 k dots (S-Stripe)   |
| Shutter  |   |
| Type   | Electronically controlled vertical-run focal plane shutter  |
| Speed  | <ul style="list-style-type: none"> <li>• Auto: 1/8,000–1/4 sec. (EFS available)</li> <li>• Manual: 1/8,000–30 sec. (1/3 EV Step)(EFS available)</li> <li>• Bulb (time limit: 4 min)</li> </ul> The fastest shutter speed is limited to 1/6,000 s when you use the mechanical shutter. |
| Flash  |   |
| Type   | A-TTL auto pop-up flash   |
| Angle of view  | 28 mm (35 mm film equivalent)   |
| White Balance  |   |
| Mode   | Auto WB, Daylight, Cloudy, Fluorescent White, Fluorescent NW, Fluorescent Daylight, Tungsten, Flash WB, Custom Set, Color Temperature (Manual)  |
| Micro adjustment   | Amber/Blue/Green/Magenta 7 steps respectively   |
| Storage  |   |
| External memory (optional)*: SD card (2 GB guaranteed), SDHC card (up to 32 GB guaranteed), SDXC card (up to 64 GB guaranteed), UHS-1 card * Class 6 and above recommended |   |
| GPS  |   |
| Type   | Geo-tagging with an optional GPS Module (WGS 84)  |
| Feature  | Location name (English and Korean only)   |
| Wireless network   |   |
| Function   | MobileLink, Remote Viewfinder, Baby Monitor, Auto Backup, Email, SNS & Cloud, Samsung Link, AutoShare, Group Share, Photo Beam, HomeSync  |
| Interface  |   |
| Digital output   | USB 2.0 (micro USB jack)  |
| Video output   | NTSC, PAL (selectable)<br>HDMI 1.4a   |
| Power Source   |   |
| Type   | Rechargeable battery: BP1410 (1,410 mAh)  |
| Dimensions (W X H X D)   |   |
| 127 X 95.5 X 43.25 mm (without protrusions)  |   |
| Weight   |   |
| 368 g (without battery and memory card)  |   |







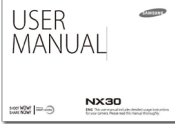
## 2-2 Product comparison

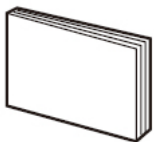

| Spec                   | Model | NX30  | NX20   |
|------------------------|-------|---|--|
| Image                  |       |    |    |
| Image Sensor           |       | 23.5 X 15.7 mm CMOS   | 23.5 X 15.7 mm CMOS  |
| Effective Pixels       |       | Approx. 20.3 mega-pixels  | Approx. 20.3 mega-pixels   |
| Total Pixels           |       | Approx. 21.6 mega-pixels  | Approx. 21.6 mega-pixels   |
| Weight                 |       | 368 g (without battery and memory card)   | 341 g (without battery and memory card)  |
| Dimensions (W X H X D) |       | 127 X 95.5 X 43.25 mm (without protrusions)   | 122 X 89.6 X 39.5 mm (without protrusions)   |
| Display                |       | HBM AMOLED with Touch Panel (C-type Touch Control Enabled)<br>3.0" (Approx. 76.7 mm)<br>Swivel (Horizontal 180°, Vertical 270°)   | AMOLED, 3.0" (7.6 cm)<br>Angle: Horizontal 180°, Vertical 270° swivel  |
| Focusing               |       | Hybrid AF (Phase Detection & Contrast)  | Contrast AF  |
| Angle of View          |       | 28 mm (35 mm film equivalent)   | 28 mm (35 mm film equivalent)  |
| Shutter Speed          |       | <ul style="list-style-type: none"> <li>• Auto: 1/8,000–1/4 sec. (EFS available)</li> <li>• Manual: 1/8,000–30 sec. (1/3 EV Step) (EFS available)</li> <li>• Bulb (time limit: 4 min)</li> </ul>   | <ul style="list-style-type: none"> <li>- Auto: 1/8000–30 sec.</li> <li>- Manual: 1/8000–30 sec. (1/3 EV Step)</li> <li>- Bulb (time limit: 4 min)</li> </ul>   |
| ISO                    |       | <ul style="list-style-type: none"> <li>- 1 Step: Auto, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200, ISO 6400, ISO 12800, ISO 25600</li> <li>- 1/3 Step: Auto, ISO 100, ISO 125, ISO 160, ISO 200, ISO 250, ISO 320, ISO 400, ISO 500, ISO 640, ISO 800, ISO 1000, ISO 1250, ISO 1600, ISO 2000, ISO 2500, ISO 3200, ISO 4000, ISO 5000, ISO 6400, ISO 8000, ISO 10000, ISO 12800, ISO 25600</li> </ul> | <ul style="list-style-type: none"> <li>- 1 Step: Auto, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200, ISO 6400, ISO 12800, ISO 25600</li> <li>- 1/3 Step: Auto, ISO 100, ISO 125, ISO 160, ISO 200, ISO 250, ISO 320, ISO 400, ISO 500, ISO 640, ISO 800, ISO 1000, ISO 1250, ISO 1600, ISO 2000, ISO 2500, ISO 3200, ISO 4000, ISO 5000, ISO 6400, ISO 8000, ISO 10000, ISO 12800</li> </ul> |
| Storage                |       | External memory (optional):<br>SD card(2 GB guaranteed),<br>SDHC card(up to 32 GB guaranteed), SDXC card, Class 6, 10, UHS-1  | External memory (optional):<br>SD card (up to 1–2 GB guaranteed),<br>SDHC card (up to 32 GB guaranteed),<br>SDXC card (up to 128 GB guaranteed)  |
| Image Stabilization    |       | Lens shift (depends on lens)  | Lens shift (depends on lens)   |
| Power Source           |       | Rechargeable battery: BP1410 (1410 mAh)   | Rechargeable battery: BP1130 (1130 mAh)  |
| Wireless Network       |       | MobileLink, Remote Viewfinder, Baby Monitor, Auto Backup, Email, SNS & Cloud, Samsung Link, AutoShare, Group Share, Photo Beam, HomeSync  | Social Sharing, Email, MobileLink, Remote Viewfinder, SkyDrive, Auto Backup, TV Link, Wi-Fi Direct   |

\* This specifications can change without notice to upgrade a performance.

## 2-3 Accessories information

- The illustrations may differ from your actual items.
- You can purchase optional accessories at a retailer or a Samsung service center. Samsung is not responsible for any problems caused by using unauthorized accessories.

| Accessories   | Image   | Description  |                    | Part No.               |
|---|---|--|--------------------|------------------------|
|   |  | <b>Camera</b><br>(including the body cap and hot-shoe cover) |                    |                        |
|                                    | <b>Rechargeable Battery BP1410</b>  |  |                    | AD43-00225A            |
|                                    | <b>Software CD-ROM</b><br>(User manual included)                                  |  |                    | AD46-00448A            |
|                                   | <b>Adobe Photoshop Lightroom DVD-ROM</b>  |  |                    | service does not apply |
|                                  | <b>Strap</b>  | <b>Blue</b>  | AD63-07021A        |                        |
|                                  | <b>USB CABEL</b>  | <b>CB5MU05E</b>  | AD39-00190A        |                        |
| <b>Quick Start Guide</b><br><br> | <b>Description</b>  | <b>Part No.</b>  | <b>Description</b> | <b>Part No.</b>        |
|   | NX30_QSG_S.CHI  | AD68-08223A  | NX30_QSG_SLO       | AD68-08241A            |
|   | NX30_QSG_ENG  | AD68-08224A  | NX30_QSG_SLV       | AD68-08242A            |
|   | NX30_QSG_GER  | AD68-08225A  | NX30_QSG_TUR       | AD68-08243A            |
|   | NX30_QSG_FRA  | AD68-08226A  | NX30_QSG_UKR       | AD68-08244A            |
|   | NX30_QSG_SPA  | AD68-08227A  | NX30_QSG_POL       | AD68-08245A            |
|   | NX30_QSG_DUT  | AD68-08228A  | NX30_QSG_RUM       | AD68-08246A            |
|   | NX30_QSG_ITA  | AD68-08229A  | NX30_QSG_ENG(SEA)  | AD68-08257A            |
|   | NX30_QSG_RUS  | AD68-08230A  | NX30_QSG_SPA(SEA)  | AD68-08258A            |
|   | NX30_QSG_SWE  | AD68-08231A  | NX30_QSG_LAV       | AD68-08251A            |
|   | NX30_QSG_DAN  | AD68-08232A  | NX30_QSG_LIT       | AD68-08252A            |
|   | NX30_QSG_BUL  | AD68-08233A  | NX30_QSG_T.CHI     | AD68-08247A            |
|   | NX30_QSG_CZE  | AD68-08234A  | NX30_QSG_GRE       | AD68-08248A            |
|   | NX30_QSG_ARA  | AD68-08235A  | NX30_QSG_SER       | AD68-08253A            |
|   | NX30_QSG_FIN  | AD68-08236A  | NX30_QSG_CRO       | AD68-08254A            |
|   | NX30_QSG_HUN  | AD68-08237A  | NX30_QSG_VIT       | AD68-08255A            |
|   | NX30_QSG_PER  | AD68-08238A  | NX30_QSG_POR_BR    | AD68-08256A            |
|   | NX30_QSG_NOR  | AD68-08239A  | NX30_QSG_THA       | AD68-08249A            |
| NX30_QSG_POR  | AD68-08240A   | NX30_QSG_HEB   | AD68-08250A        |                        |

|             | Image  | Description    | Part No.    | Description    | Part No.    |
|-------------|--|----------------|-------------|----------------|-------------|
| Accessories | <p>Quick R Guide</p>  | QRG_S.CHI      | AD68-07851A | QRG_POR        | AD68-07869A |
|             |  | QRG_ENG (USA)  | AD68-07852A | QRG_SLO        | AD68-07870A |
|             |  | QRG_GER        | AD68-07853A | QRG_SLV        | AD68-07871A |
|             |  | QRG_FRA        | AD68-07854A | QRG_TUR        | AD68-07872A |
|             |  | QRG_SPA (USA)  | AD68-07855A | QRG_UKR        | AD68-07873A |
|             |  | QRG_DUT        | AD68-07856A | QRG_POL        | AD68-07874A |
|             |  | QRG_ITA        | AD68-07857A | QRG_RUM        | AD68-07875A |
|             |  | QRG_RUS        | AD68-07858A | QRG_T.CHI      | AD68-07878A |
|             |  | QRG_SWE        | AD68-07859A | QRG_GRE        | AD68-07879A |
|             |  | QRG_DAN        | AD68-07860A | NX_QRG_LAV     | AD68-08261A |
|             |  | QRG_BUL        | AD68-07861A | NX_QRG_LIT     | AD68-08262A |
|             |  | QRG_CZE        | AD68-07862A | NX_QRG_SER     | AD68-08263A |
|             |  | QRG_ARA        | AD68-07863A | NX_QRG_CRO     | AD68-08264A |
|             |  | QRG_FIN        | AD68-07864A | NX_QRG_VIT     | AD68-08265A |
|             |  | QRG_HUN        | AD68-07865A | NX_QRG_POR_BR  | AD68-08266A |
|             |  | QRG_PER        | AD68-07866A | QRG_THA        | AD68-07880A |
|             |  | QRG_NOR        | AD68-07868A | QRG_HEB        | AD68-07881A |
|             | <p>Adaptor</p>      | ETA0U81EBE_EU  | GH44-02412A | ETA0U80HWE_AUS | GH44-02373C |
|             |  | ET0U81EWE_EU   | GH44-02412B | ETA0U80BBB_BRA | GH44-02344C |
|             |  | ETA0U61JBE_USA | GH44-02389A | ETA0U80BWB_BRA | GH44-02344G |
|             |  | ETA0U61JWE_USA | GH44-02389D | ETA0U82CBC_CHI | GH44-02413B |
|             |  | ETA0U71XBE_UK  | GH44-02328C | ETA0U82CWC_CHI | GH44-02444A |
|             |  | EIA-U100BE_UK  | 3721-001187 | ETA0U80IBE_IND | GH44-02349A |
|             |  | ET0U71XWE_UK   | GH44-02382E | ETA0U80WEIND   | GH44-02349C |
|             |  | EIA-U100WE_UK  | 3721-001236 | ETA0U80RBS_ARG | GH44-02374A |
|             |  | ETA0U80HBE_AUS | GH44-02373A | ETA0U80RWS_ARG | GH44-02374C |



\* This page is Optional accessories .

|   | Image   | Description                 | Model name                         | Note                               |
|---|---|-----------------------------|------------------------------------|------------------------------------|
|   |    | <b>Rechargeable Battery</b> | ED-BP1410                          |                                    |
| Optional accessories  |    | <b>Battery charger</b>      | ED-BC4NX02                         |                                    |
|   |    | <b>Rmote Switch</b>         | ED-SR2NX02                         |                                    |
|   |    | <b>Flash</b>                | ED-SEF580A                         |                                    |
|   |    |                             | ED-SEF220A                         |                                    |
|   |   | <b>Hand Grip</b>            | ET-GGN10GBEGWW                     |                                    |
|   |  | <b>K Mount adapter</b>      | ED-MA9NXK/KR                       |                                    |
|   |  | <b>PROTECTOR</b>            | ED-LF405PT/KR                      | compatibility lens(2050)           |
|   |   |                             | ED-LF43PT/KR                       | compatibility lens(30, 45, 16, 20) |
|   |   |                             | ED-LF52PT/KR                       | compatibility lens(60, 50200)      |
|   |   |                             | ED-LF58PT/KR                       | compatibility lens(1855, 1224)     |
|   |   |                             | ED-LF67PT/KR                       | compatibility lens(18200, 85)      |
|   |  | <b>ND Filter</b>            | ED-LF405ND4/KR                     | compatibility lens(2050)           |
|   |   |                             | ED-LF43ND4/KR                      | compatibility lens(30, 45, 16, 20) |
|   |   |                             | ED-LF52ND4/KR                      | compatibility lens(60, 50200)      |
| ED-LF58ND4/KR   |   |                             | compatibility lens(1855, 1224)     |                                    |
|  | <b>CPL Filter</b>   | ED-LF43PL/KR                | compatibility lens(30, 45, 16, 20) |                                    |
|   |   | ED-LF52PL/KR                | compatibility lens(60, 50200)      |                                    |
|   |   | ED-LF58PL/KR                | compatibility lens(1855, 1224)     |                                    |
|  | <b>CABLE (USB+C)</b>  | EA-CB5MU05E                 |                                    |                                    |
|  | <b>CABLE (HDMI)</b>   | EA-CBHD10D                  |                                    |                                    |

## 2-4 About the memory card

The memory capacity may differ depending on shooting scenes or shooting conditions. These capacities are based on a 2 GB SD card.

### 2 GB SD card:

|       | Size  |           | Quality    |      |        |     |              |            |              |
|-------|-------|-----------|------------|------|--------|-----|--------------|------------|--------------|
|       |       |           | Super Fine | Fine | Normal | RAW | RAW + S.Fine | RAW + Fine | RAW + Normal |
| Photo | 20.0M | 5472X3648 | 150        | 180  | 224    | 57  | 41           | 43         | 45           |
|       | 10.1M | 3888X2592 | 271        | 325  | 405    | -   | 52           | 53         | 55           |
|       | 5.9M  | 2976X1984 | 411        | 492  | 613    | -   | 58           | 60         | 61           |
|       | 2.0M  | 1728X1152 | 797        | 952  | 1180   | -   | 66           | 67         | 68           |
|       | Burst |           | 464        | 555  | 690    | -   | -            | -          | -            |
|       | 16.9M | 5472X3080 | 174        | 209  | 261    | -   | 44           | 46         | 48           |
|       | 7.8M  | 3712X2088 | 335        | 401  | 499    | -   | 55           | 57         | 58           |
|       | 4.9M  | 2944X1656 | 471        | 564  | 701    | -   | 60           | 61         | 63           |
|       | 2.1M  | 1920X1080 | 781        | 933  | 1158   | -   | 66           | 66         | 67           |
|       | 13.3M | 3648X3648 | 214        | 257  | 321    | -   | 48           | 50         | 52           |
|       | 7.0M  | 2640X2640 | 363        | 435  | 542    | -   | 56           | 58         | 59           |
|       | 4.0M  | 2000X2000 | 538        | 643  | 800    | -   | 62           | 63         | 64           |
|       | 1.1M  | 1024X1024 | 1030       | 1227 | 1519   | -   | 68           | 69         | 69           |

|       | Size                        |                      | Quality          |                  |
|-------|-----------------------------|----------------------|------------------|------------------|
|       |                             |                      | HQ               | Normal           |
| Video | <b>1080</b><br><b>60P</b>   | 1920X1080 (60 fps)   | Approx. 10' 10"  | Approx. 12' 43"  |
|       | <b>1080</b><br><b>30P</b>   | 1920X1080 (30 fps)   | Approx. 17' 41"  | Approx. 22' 09"  |
|       | <b>1080</b><br><b>15P</b> * | 1920X1080 (15 fps)   | Approx. 23' 38"  | Approx. 29' 24"  |
|       | <b>810</b><br><b>24P</b>    | 1920X810 (24 fps)    | Approx. 21' 35"  | Approx. 27' 02"  |
|       | <b>720</b><br><b>60P</b>    | 1280X720 (60 fps)    | Approx. 16' 51"  | Approx. 21' 06"  |
|       | <b>720</b><br><b>30P</b>    | 1280X720 (30 fps)    | Approx. 29' 11"  | Approx. 36' 35"  |
|       | <b>480</b><br><b>30P</b>    | 640X480 (30 fps)     | Approx. 120' 47" | Approx. 153' 30" |
|       | <b>240</b><br><b>30P</b>    | For Sharing (30 fps) | Approx. 218' 48" | Approx. 278' 24" |

\* **1080 15P** is available only with some Smart Filter options.

The figures above are measured without using the zoom function.

Available recording time may vary if you use the zoom.

Several videos were recorded in succession to determine the total recording time.

The maximum recording time is 29 minutes and 59 seconds per file.

The maximum playback time of For Sharing videos is 30 seconds per file.

## 2-5 About the battery

### Battery specifications

| Item   | Description         |
|--|---------------------|
| Model  | BP1410              |
| Type   | Lithium-ion battery |
| Cell capacity  | 1410 mAh            |
| Voltage  | 7.6 V               |
| Charging time<br>(When the battery is completely discharged) | Approx. 200 min     |

### Battery life

| Shooting mode | Average time / Number of photos  |
|---------------|--|
| Photos        | Approx. 180 min/Approx. 360 photos                                     |
| Videos        | Approx. 145 min<br>(Record videos at 1920X1080 resolution and 60 fps.) |

- The figures above are based on Samsung's test standards. Your results may differ depending on your actual usage.
- Available shooting time differs depending on background, shooting interval, and use conditions.
- Several videos were recorded in succession to determine the total recording time.

## 3. Disassembly and reassembly

### 3-1 Disassembly

- We provide the general support.  
: Samsung Authorized Service Center will provide courteous service on Samsung products for which they are authorized.
- We provide the technical expertise support.  
: After replacing the parts such as Main PBA, CMOS, Shutter, Mount, it is required to adjust these parts with the equipment specified below.

For more detail information, refer to chapter 8 Adjustment.

<Table 3-1>

| Repair Service              | Part                    | Items to be adjusted            | Required equipment   |
|-----------------------------|-------------------------|---------------------------------|--|
| General support             | LCD, Back-Cover, Top    | -                               | -  |
| Technical expertise support | LENS Mount, Front-Cover | CMOS Tilt                       | CMOS-Tilt equipment<br>Shutter speed equipment<br>Light box (5500K)<br>Light box (3200K) |
|                             | ASSY-CMOS               | CMOS Tilt, AWB etc. (Light box) |  |
|                             | Shutter                 | Shutter Speed                   |  |
|                             | MAIN PBA                | AWB etc. (Light box)            |  |

#### 3-1-1 General support - Disassembly

- Remove the **2 screw** on the left side, **2 screws** on the right side and **3 screws** on the bottom side.



SCREW MACHINE (M1.4XL4/BLACK)  
6001-002152



SCREW MACHINE (M1.4XL4/BLACK)  
6001-002152

Fig. 3-1

2. Raise the **ASSY EVF** in the direction of the arrow.



Fig. 3-2

3. Remove the **2 screws**.



**CAUTION**

**These 2 screws are different type from the other back cover screws.  
Keep them separately.**

SCREW TAP (M1.4XL4/BLACK)  
6003-001743



Fig. 3-3



4. Open carefully the locking part to release the **ASSY COVER BACK** as illustrated in image below. Then remove it.



Fig. 3-4

5. Remove the **ASSY COVER BACK**.

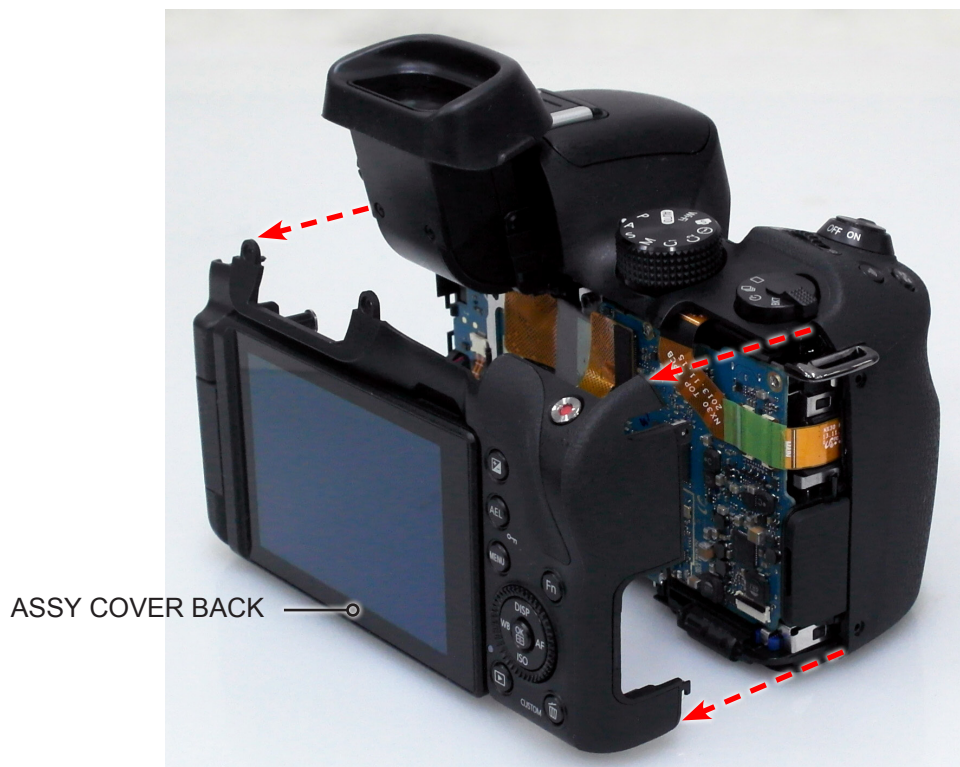


Fig. 3-5

6. Remove the **FPCB** from the connector as illustrated in **Fig. A**.

**CAUTION**

Use extra care when removing the FPCB from the connector.

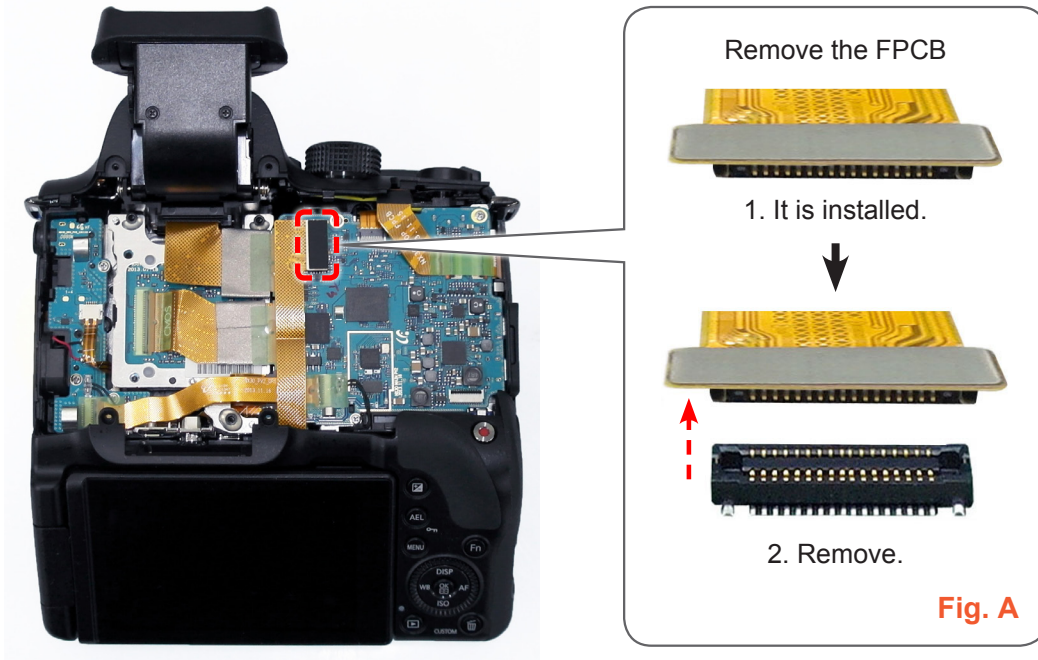


Fig. 3-6

7. Remove the **FPCB** from the connector as illustrated in **Fig. B**.

**CAUTION**

Use extra care when removing the FPCB from the connector.

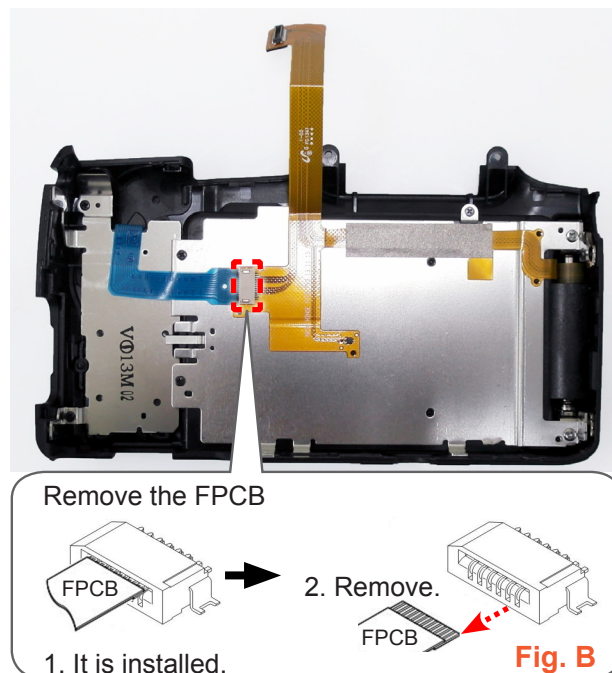


Fig. 3-7



8. Remove the **FPCB** that is attached on the ASSY WHEEL KEY and ASSY FRAME MAIN

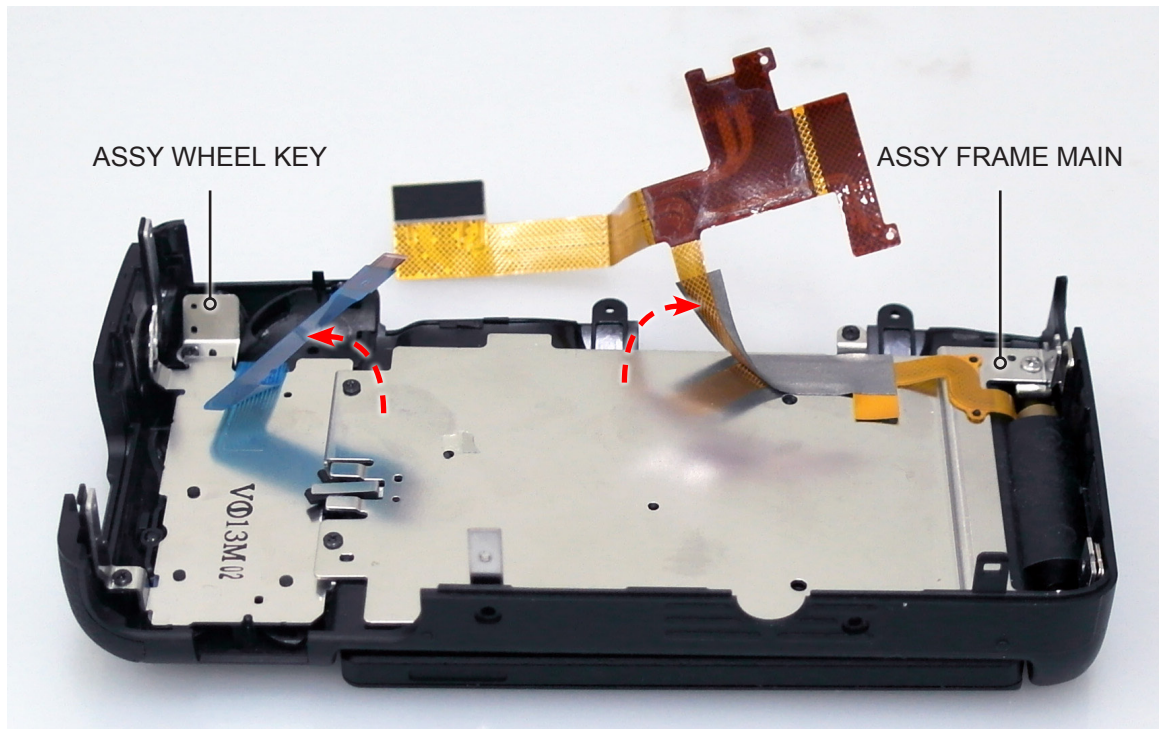


Fig. 3-8

9. Remove the **7 screws**.

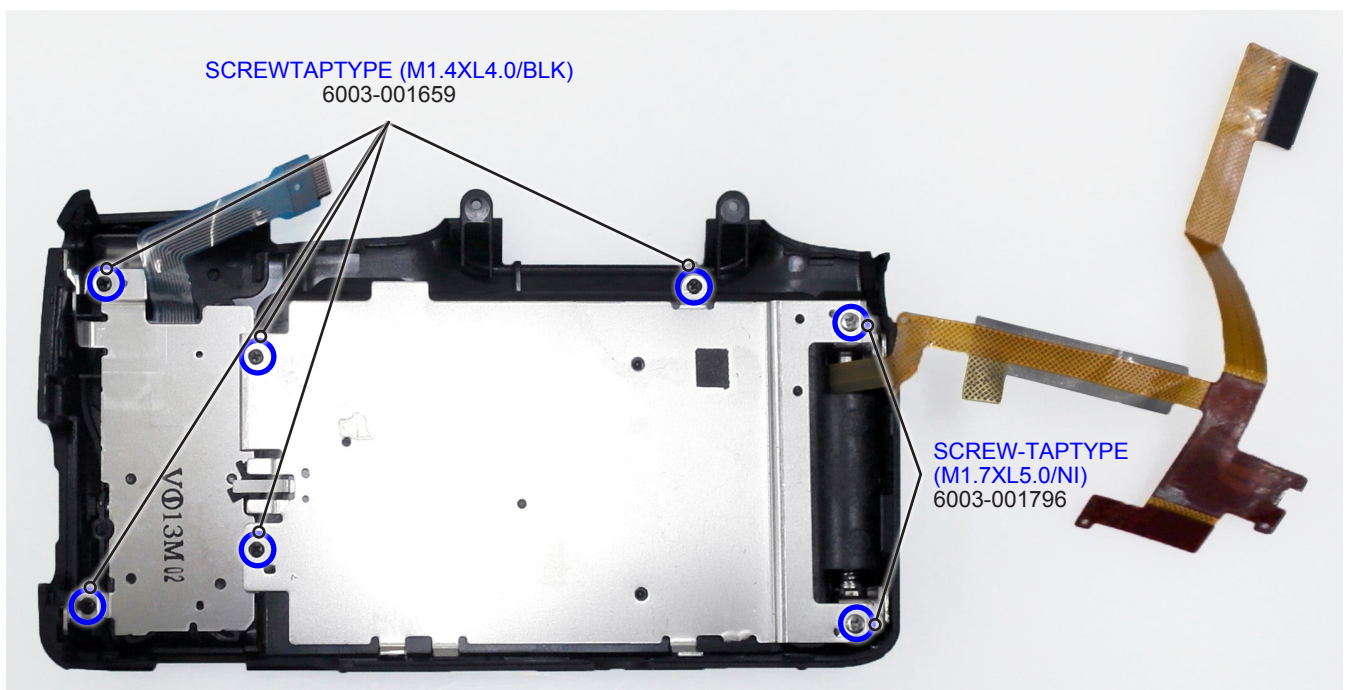


Fig. 3-9

10. Remove the following parts in the order indicated below.

- ① **ASSY FRAME MAIN**
- ② **LEVER LOCK LCK**
- ③ **ASSY WHEEL KEY**

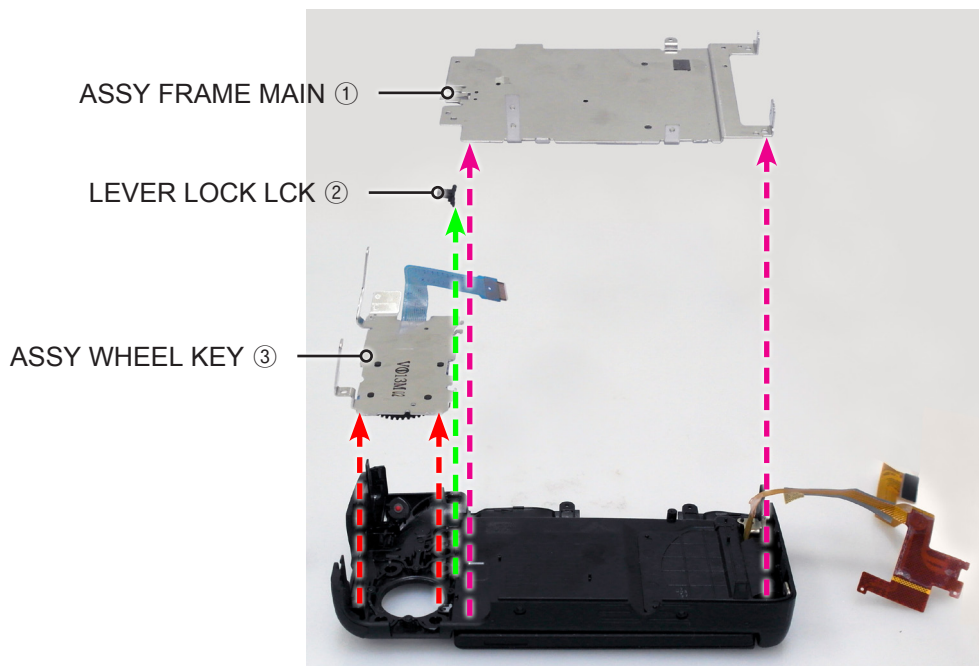


Fig. 3-10

11. Remove the **ASSY COVER BACK INNER**.

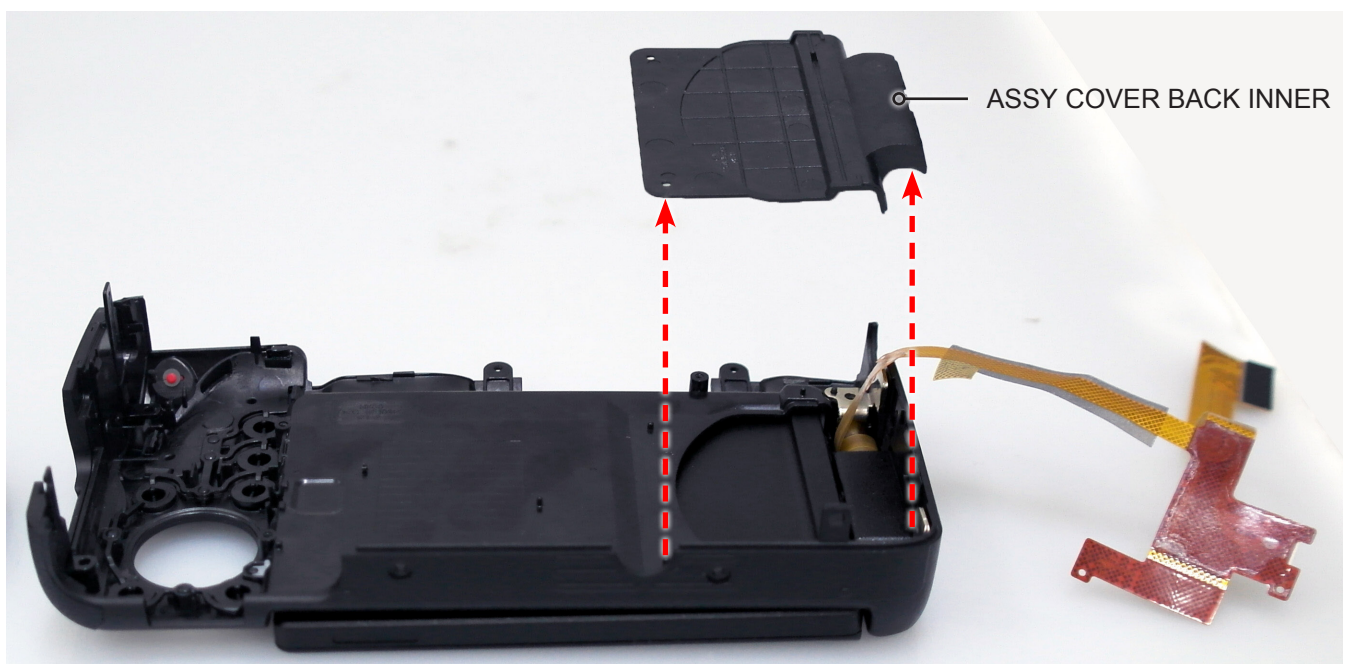


Fig. 3-11

12. Open the **ASSY OLED HINGE** at right angle.



Fig, 3-12

13. Remove the **ASSY OLED HINGE** as illustrated in **Fig. C**.

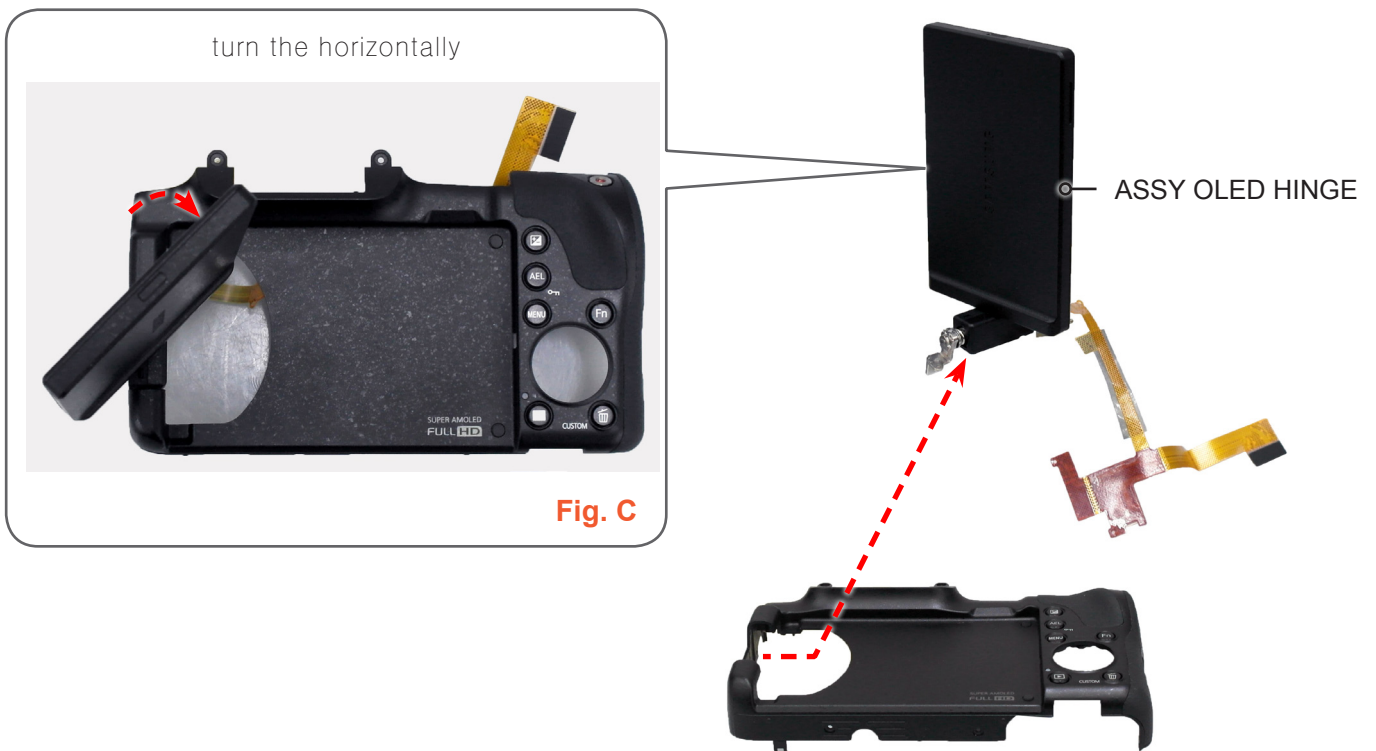


Fig. 3-13



14. Remove the **COVER JACK**.

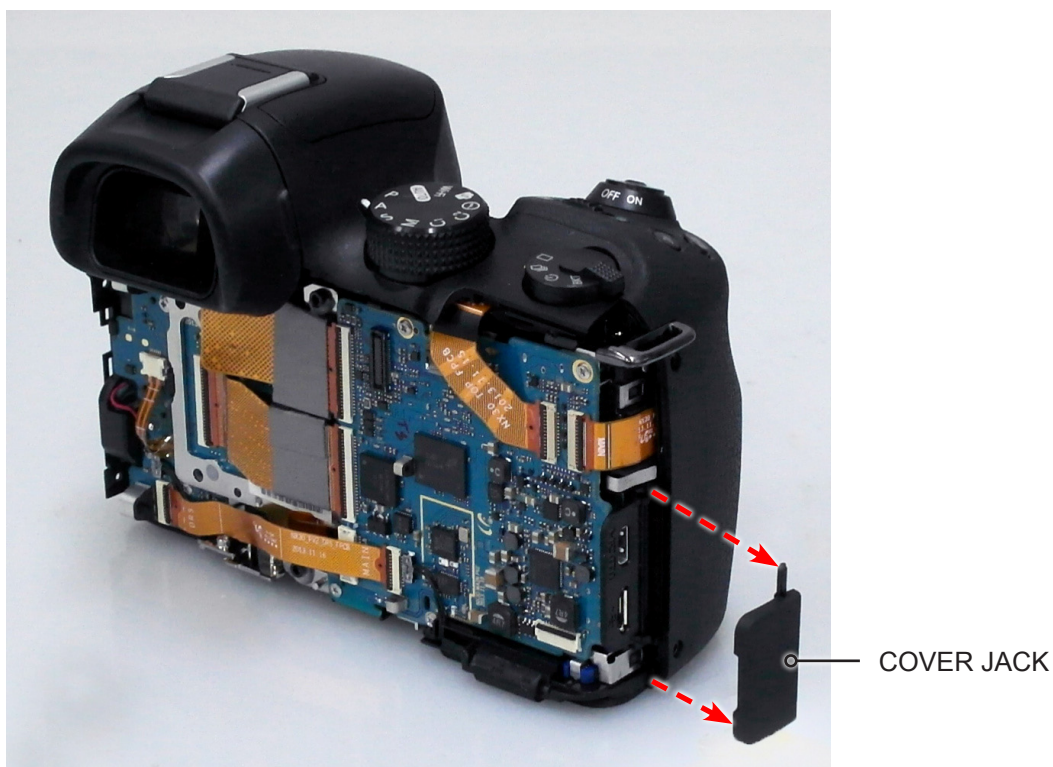


Fig. 3-14

15. Remove the **ASSY COVER BATTERY** as illustrated in **Fig. D**.

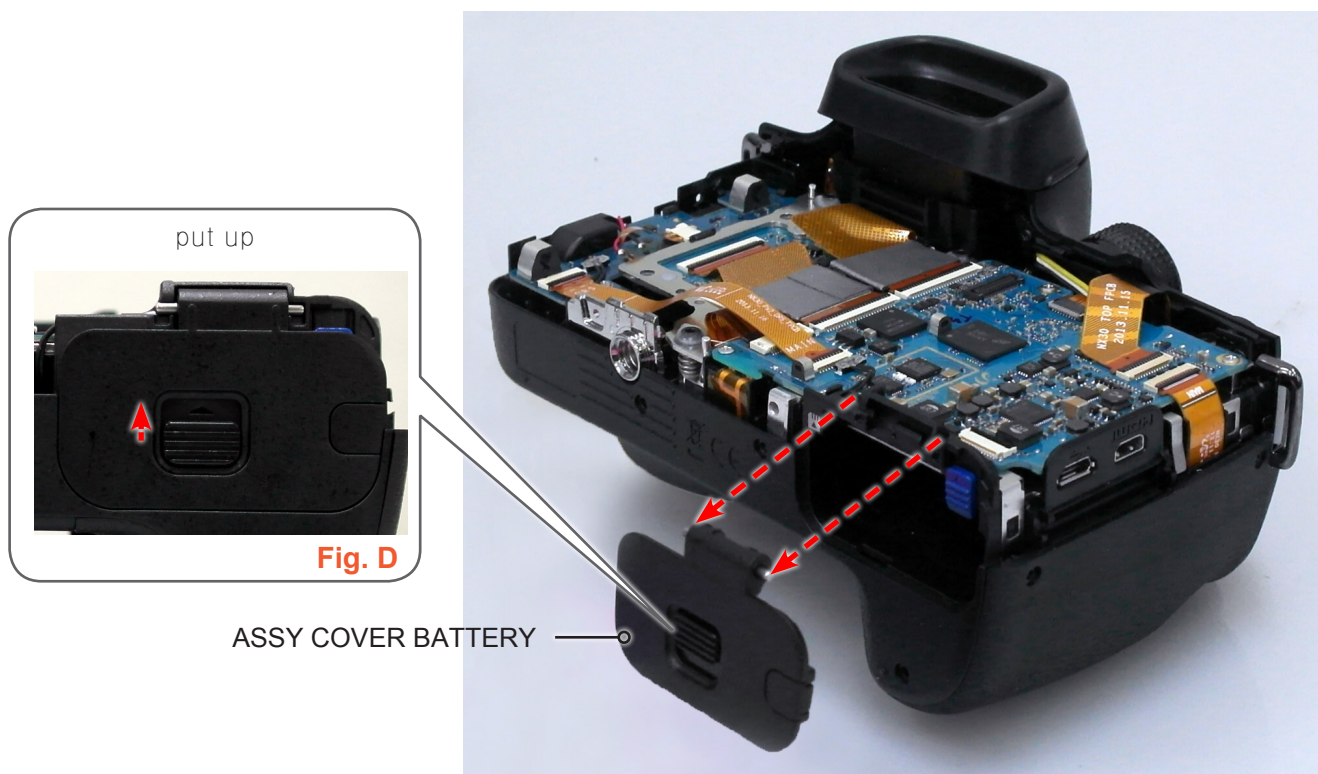


Fig. 3-15

16. Remove the **FPCB** from the connector as illustrated in **Fig. E**.
17. Remove the **WIRE** as illustrated in **Fig. F**.
18. Remove the **3 screws**.

**CAUTION**

Use extra care when removing the FPCB from the connector.

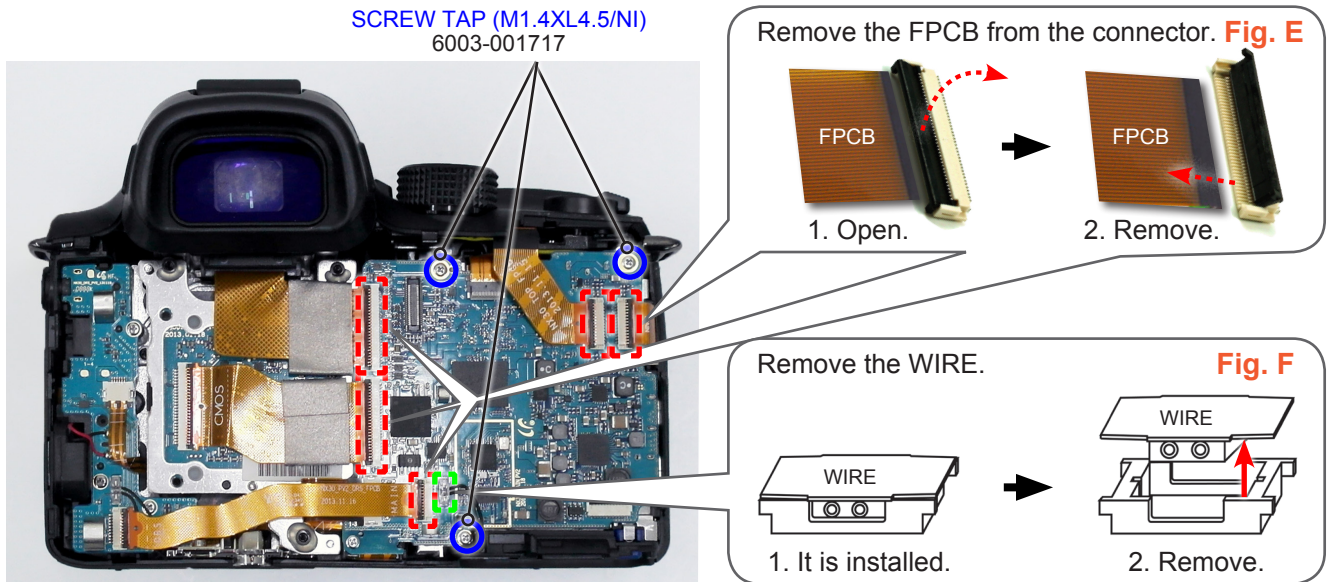


Fig. 3-16

19. Remove the **ASSY PCB MAIN**.

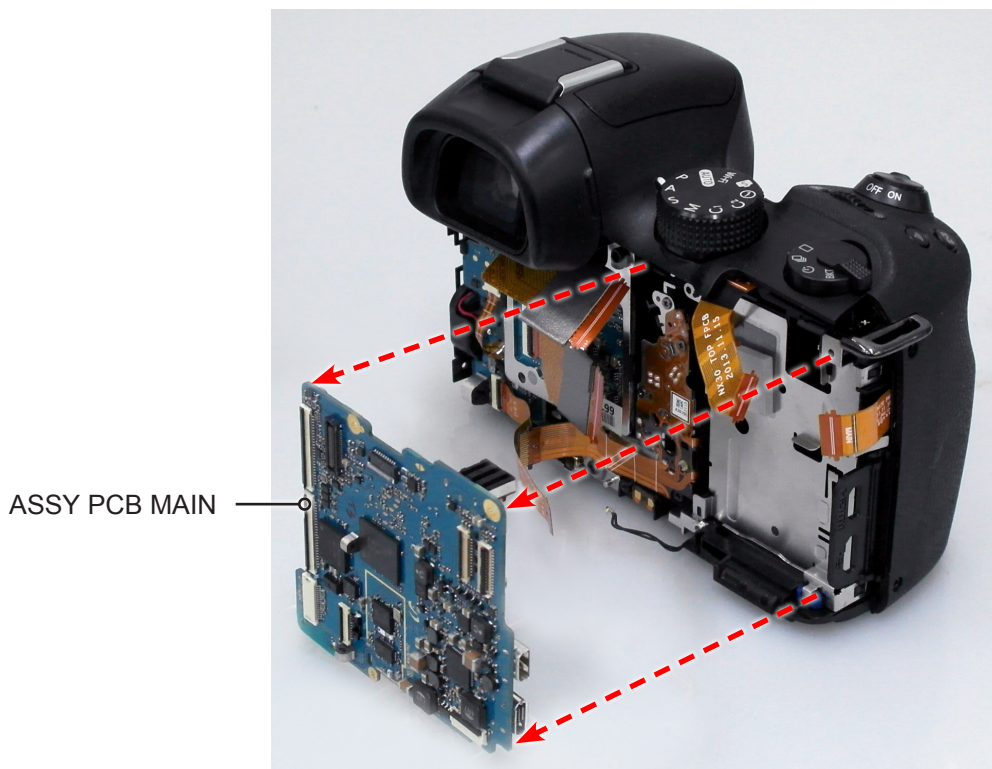


Fig. 3-17

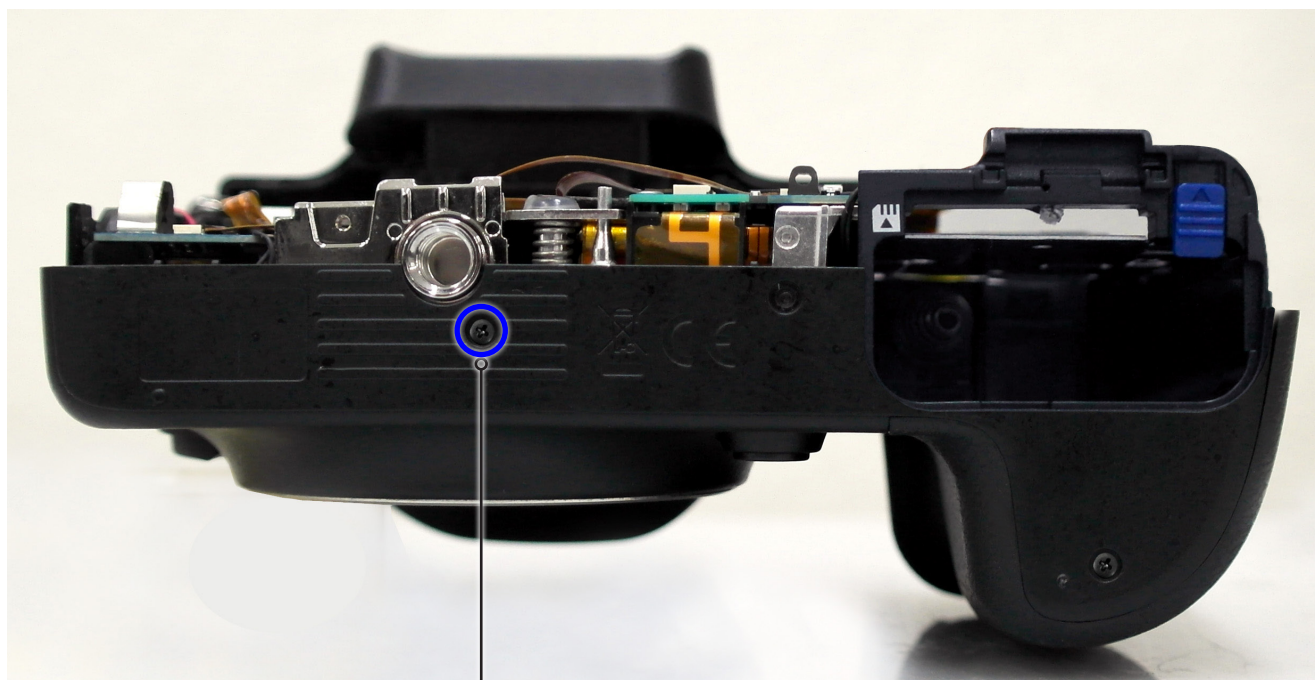


20. Remove the **COVER-MIC**.



Fig. 3-18

21. Remove the **screw**.



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Fig. 3-19

22. Remove the **FPCB** from the connector as illustrated in **Fig. G** and **Fig. H**.
23. Remove the **WIRE** as illustrated in **Fig. I**.
24. Remove the **2 screws**.

**CAUTION**

Use extra care when removing the FPCB from the connector.

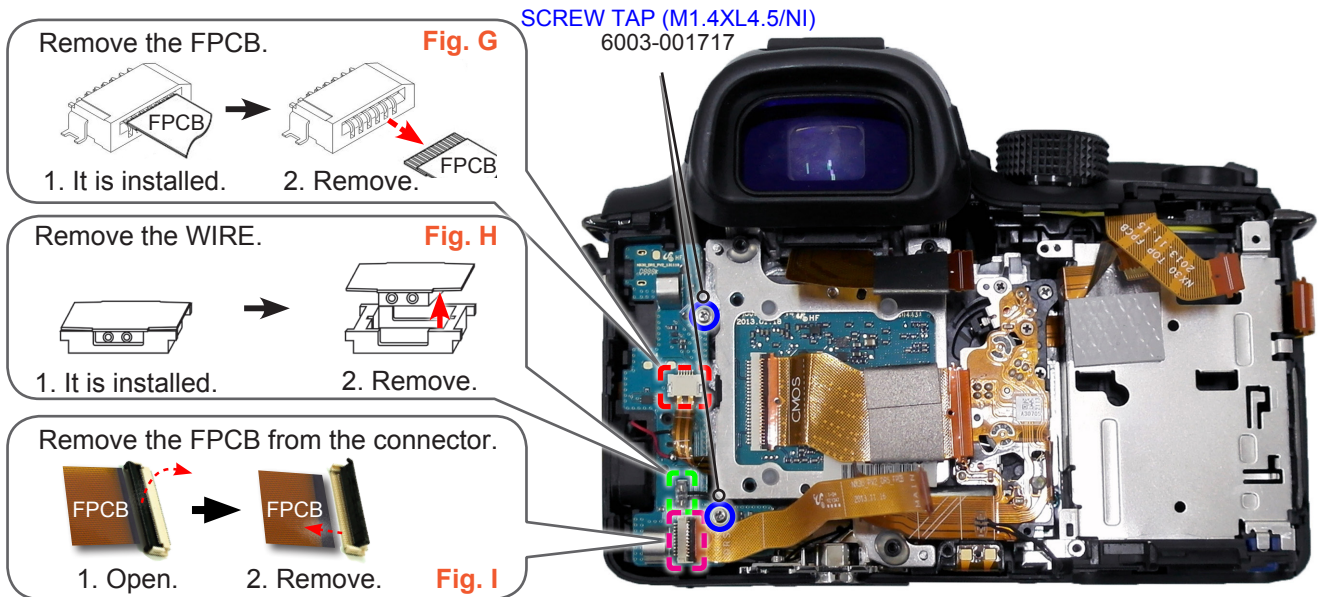
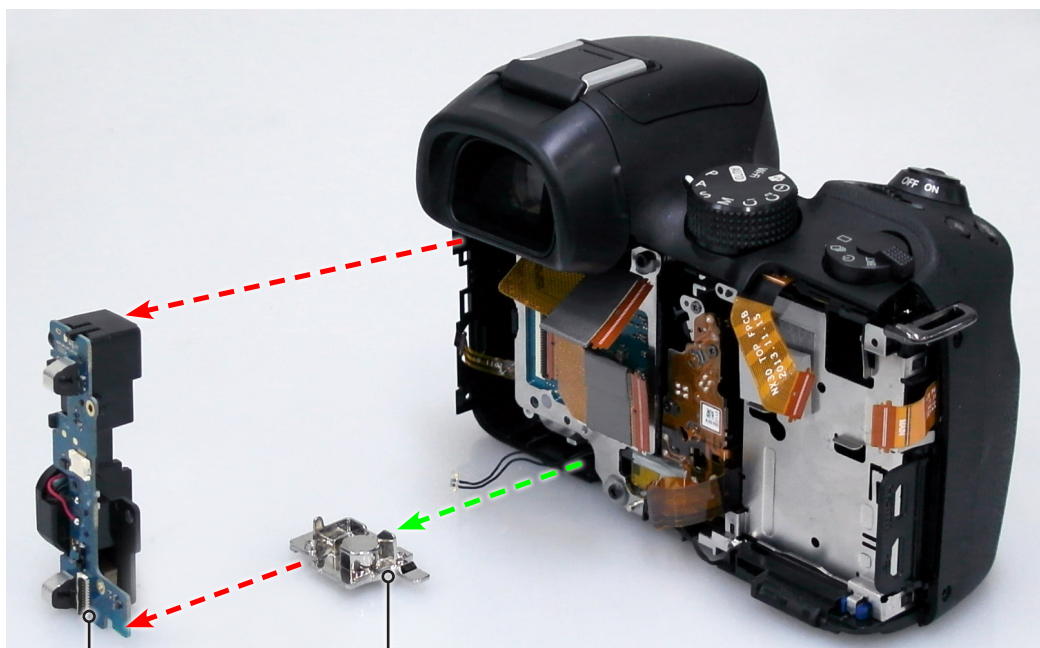


Fig. 3-20

25. Remove the following parts in the order indicated below.

- ① **ASSY SPEAKER-DRS PCB**
- ② **HOLDER-TRIPOD**



ASSY SPEAKER-DRS PCB HOLDER-TRIPOD

Fig. 3-21



26. Remove the **2 screws**.

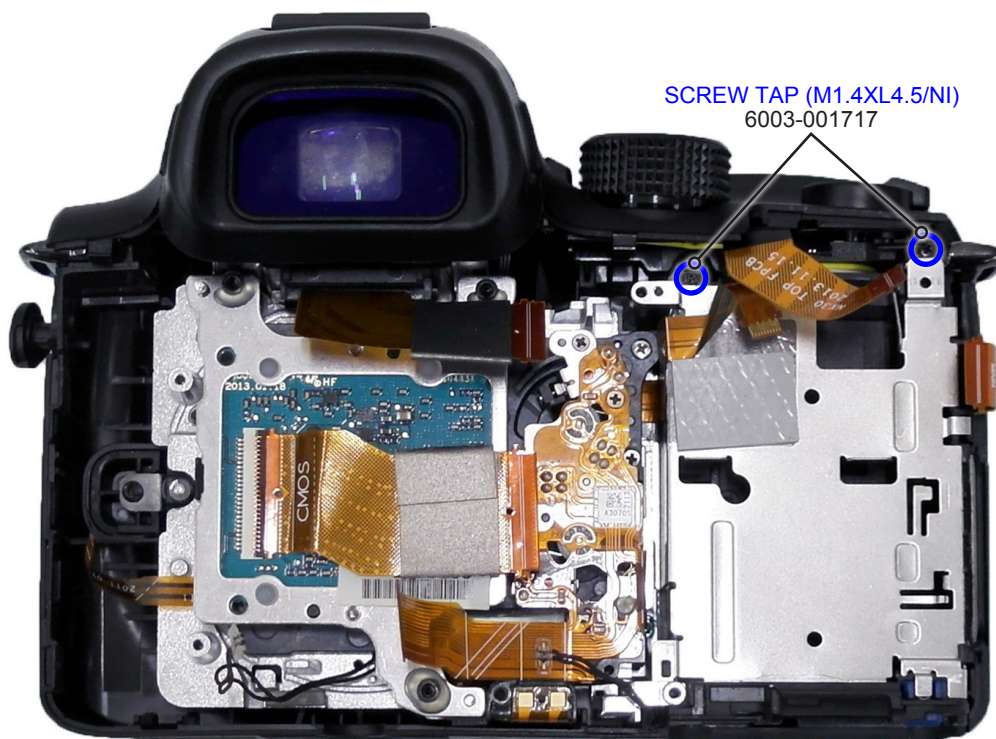
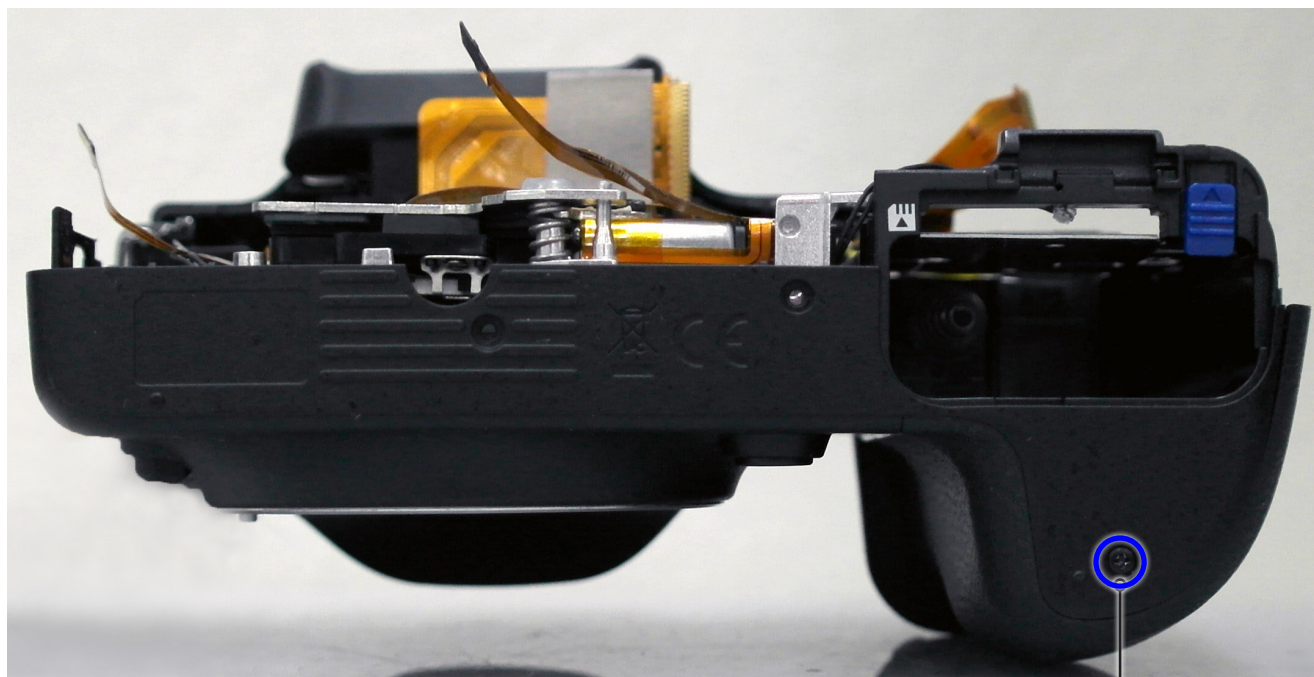


Fig. 3-22

27. Remove the **screw**.



SCREW MACHINE (M1.4XL4/BLACK)  
6001-002152

Fig. 3-23

28. Remove the **ASSY GRIP-FRONT**.



Fig. 3-24

29. Remove the **FPCB** from the connector as illustrated in **Fig. J**.

**CAUTION**

Use extra care when removing the FPCB from the connector.

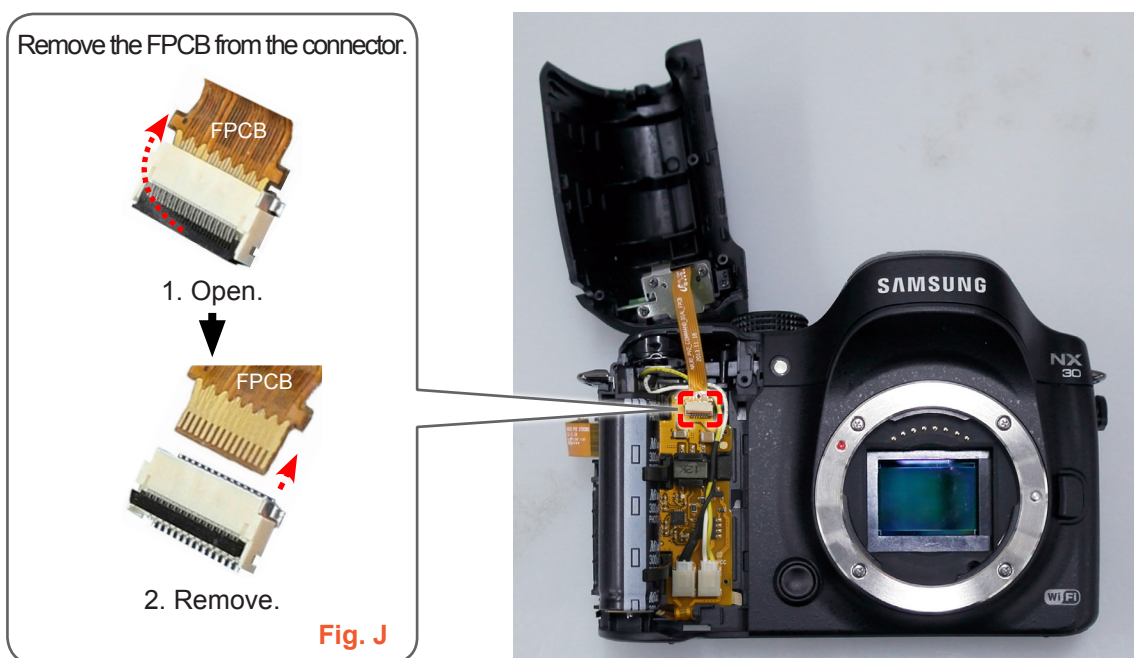


Fig. 3-25



30. Remove the **connector** as illustrated in **Fig. K**.

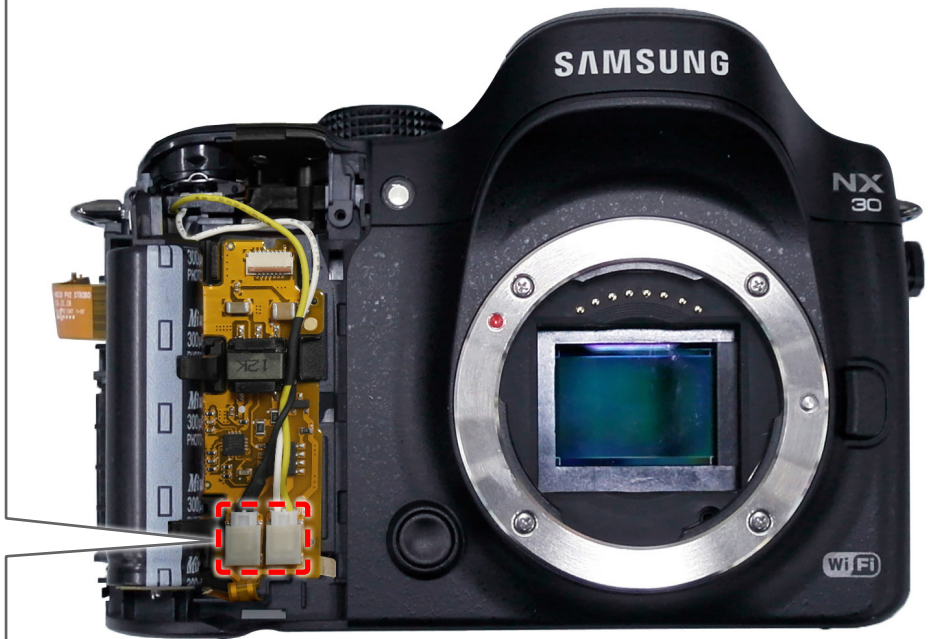
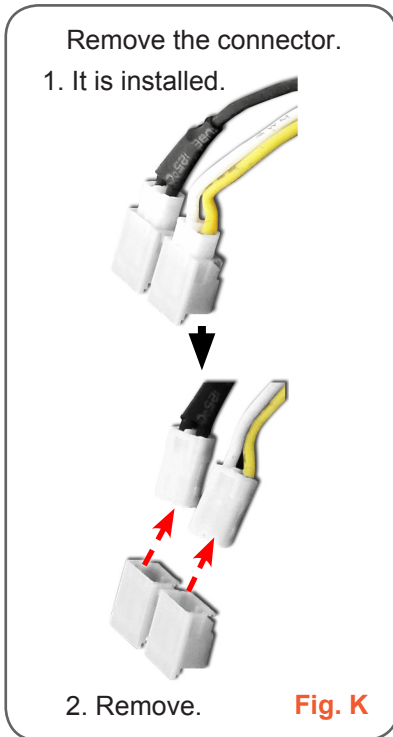


Fig. 3-26

31. Discharge the part marked in red circle.

**CAUTION**  
Discharge the condenser.

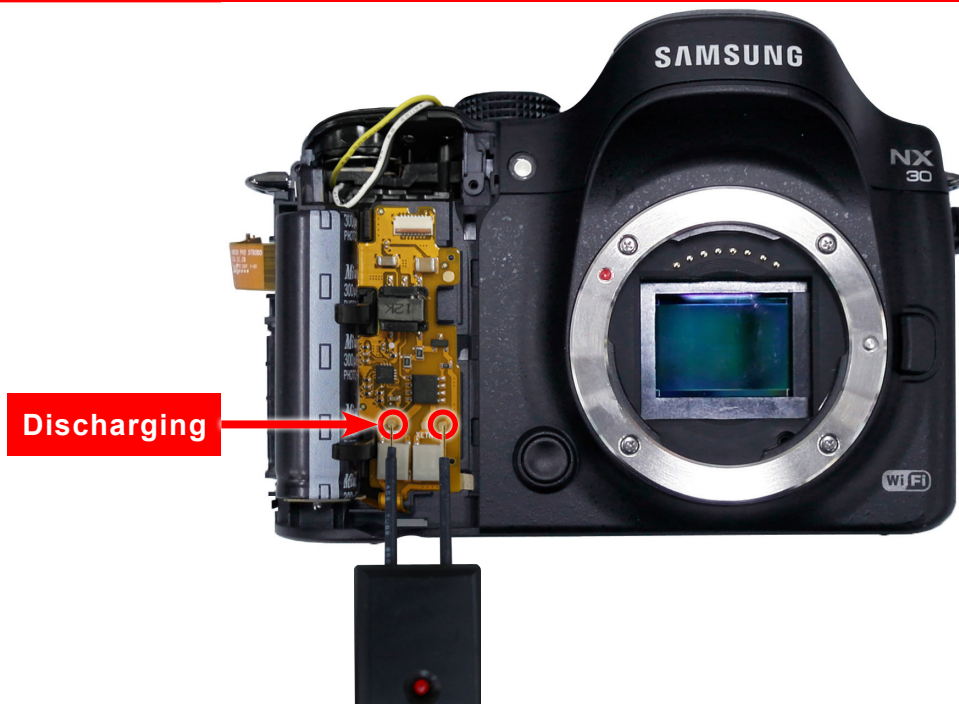


Fig. 3-27

32. Remove the **ASSY FPC STROBO**.



Fig. 3-28

33. Remove the **2 screws** as illustrated in **Fig. L**.

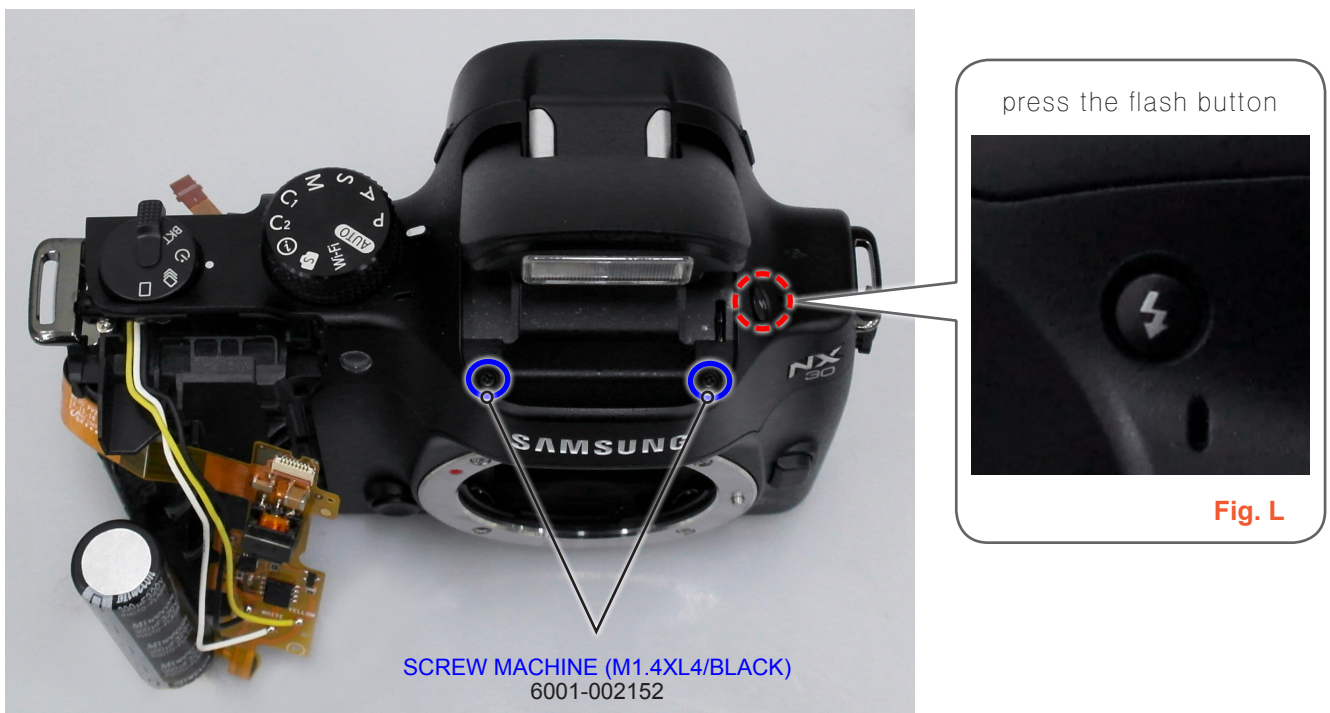


Fig. 3-29



34. Remove the **ASSY COVER TOP**.

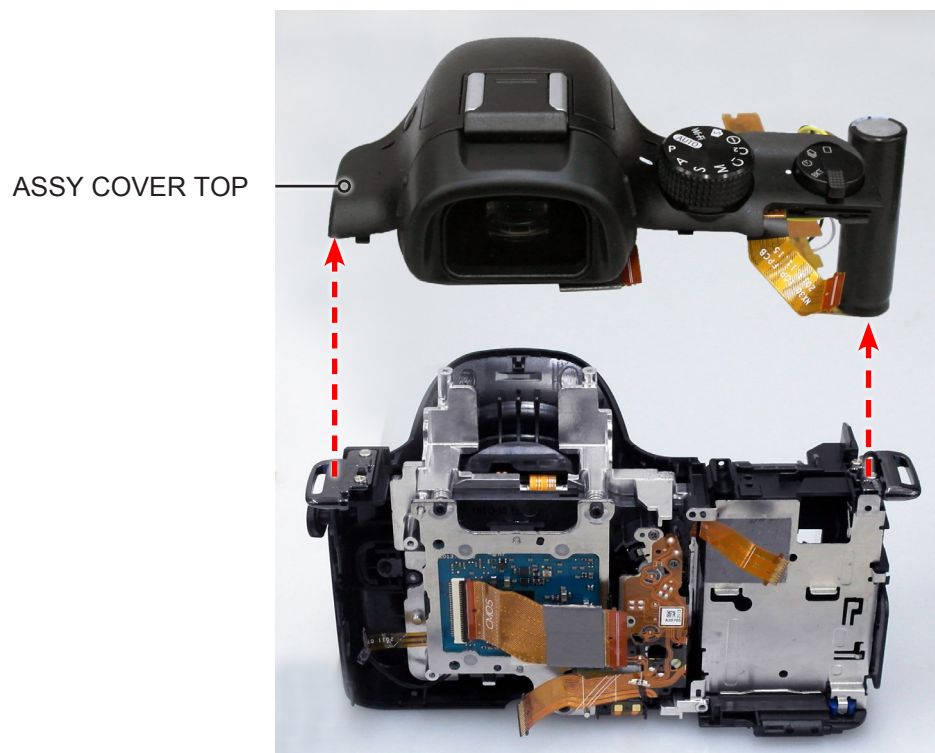


Fig. 3-30

35. Remove the **2 screws**.

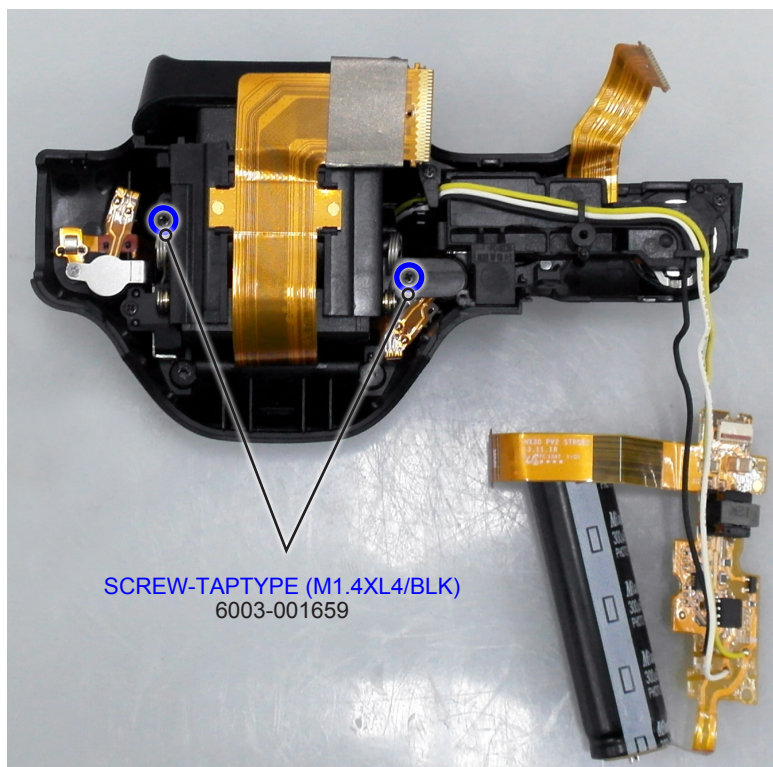


Fig. 3-31

36. Remove the **ASSY EVF**.

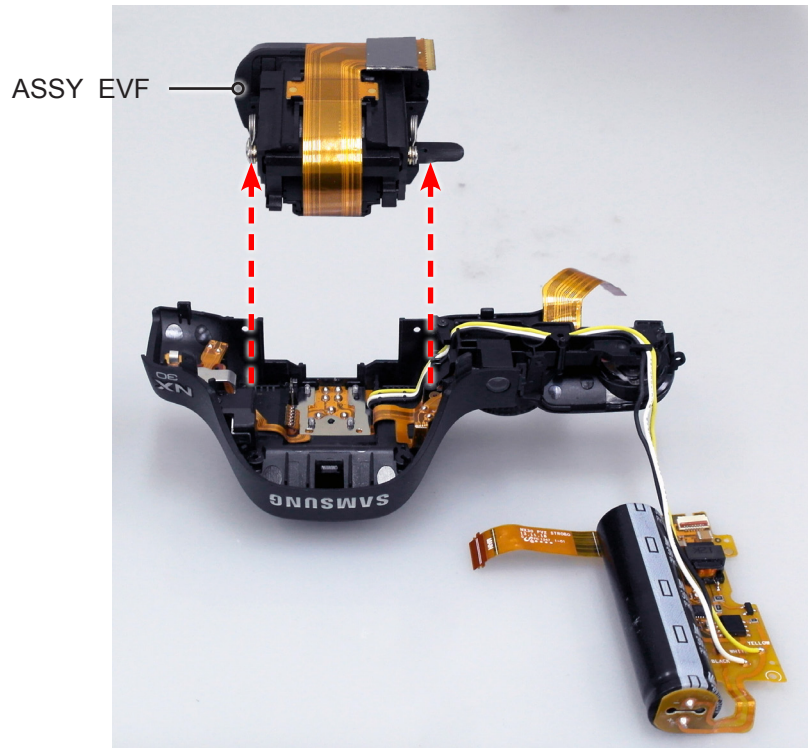


Fig. 3-32

37. Remove the **COVER-HOT SHOE**.

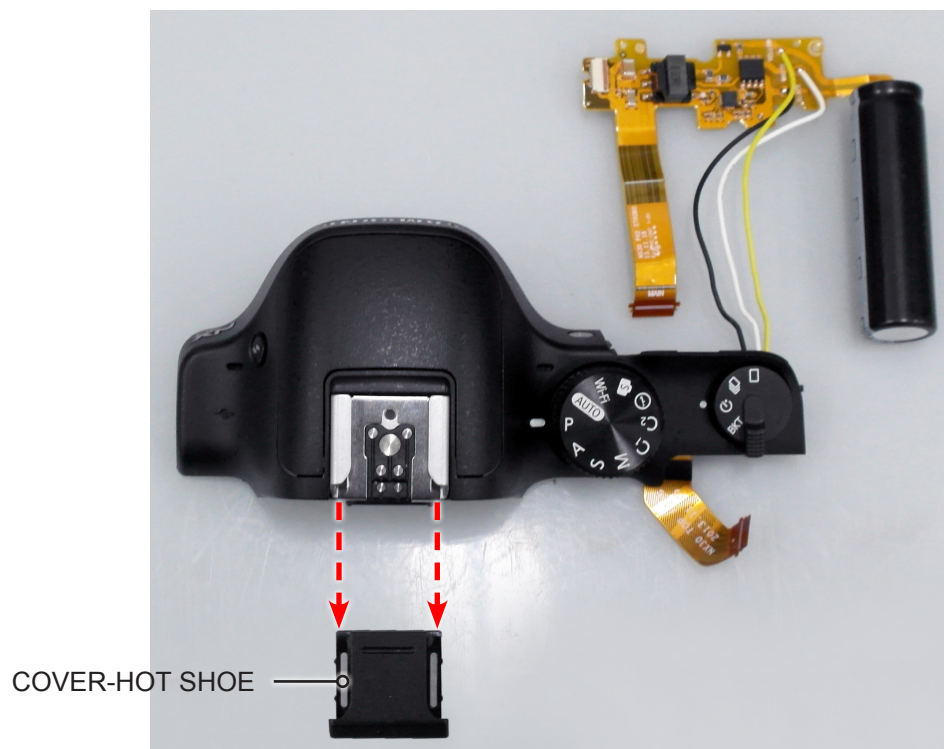


Fig. 3-33



- 38. Remove the **PLATE-SPRING SHOE** as illustrated in **Fig. M**.
- 39. Remove the **4 screws** as illustrated in **Fig. N**.

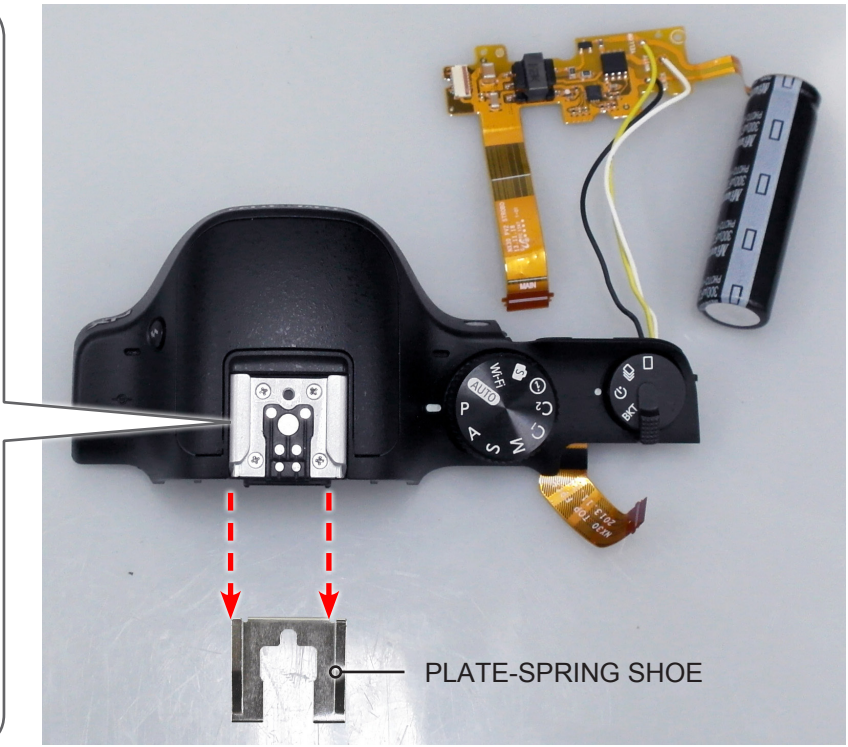


Fig. 3-34

- 40. Remove the following parts in the order indicated below.
- ① **PLATE HOT SHOE**
- ② **PLATE HOT SHOE BOTTOM**

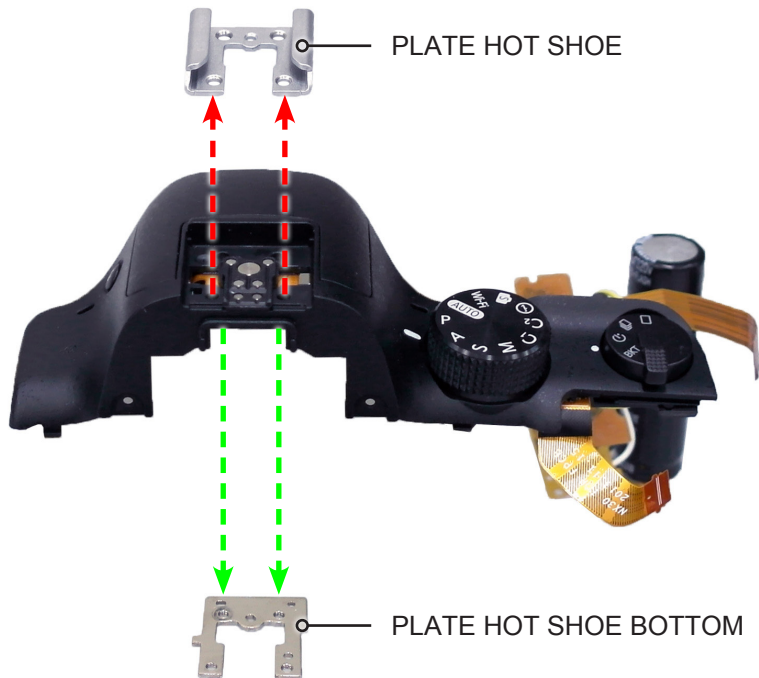
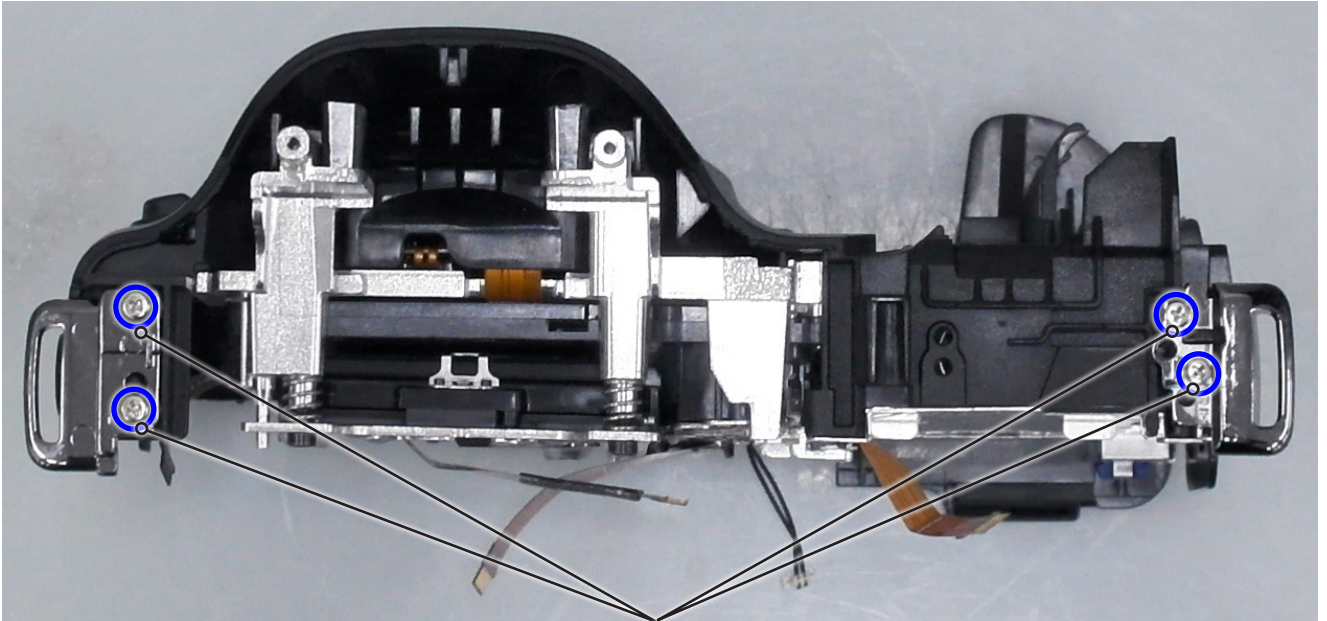


Fig. 3-35



41. Remove the 4 screws.



SCREW-TATYPE(M1.4XL1.0)  
6001-003021

Fig. 3-36

42. Remove the following parts in the order indicated below.

- ① HOLDER STRAP L
- ② HOLDER STRAP R

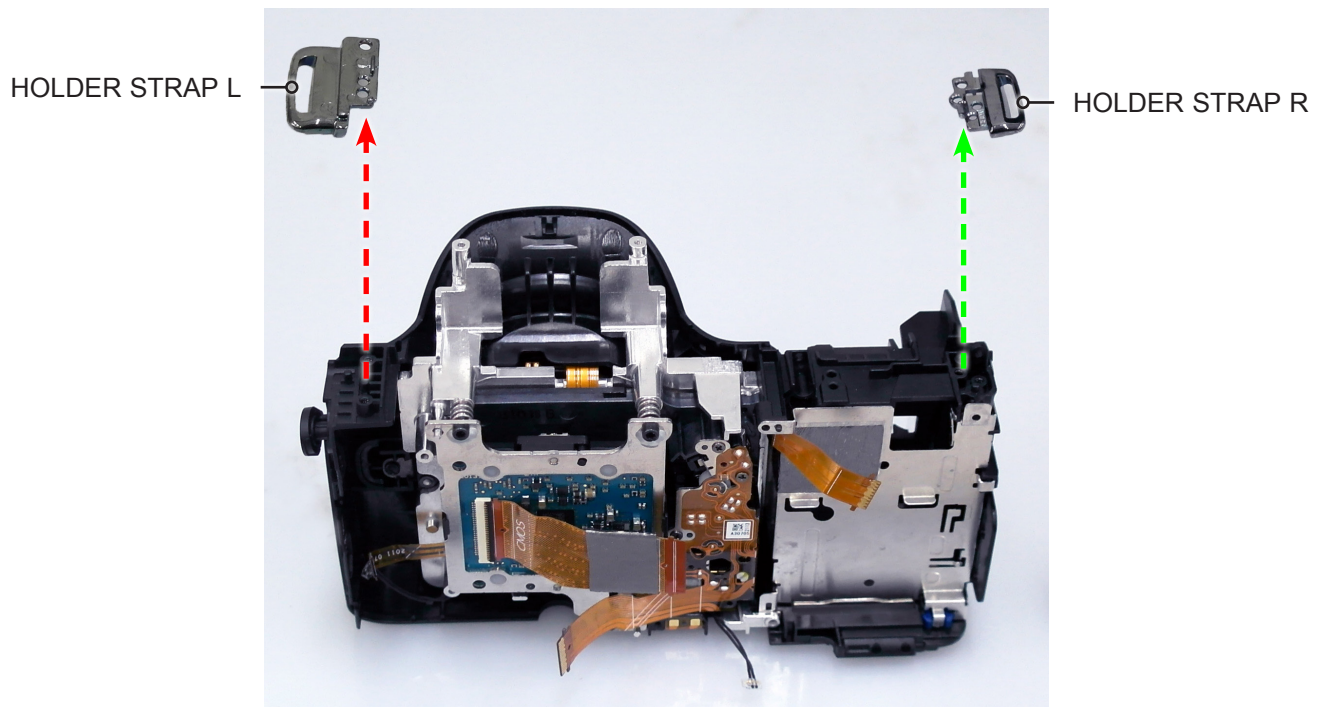


Fig. 3-37

### 3-1-2 Technical expertise support - Disassembly

1. Remove the **3 screws**.

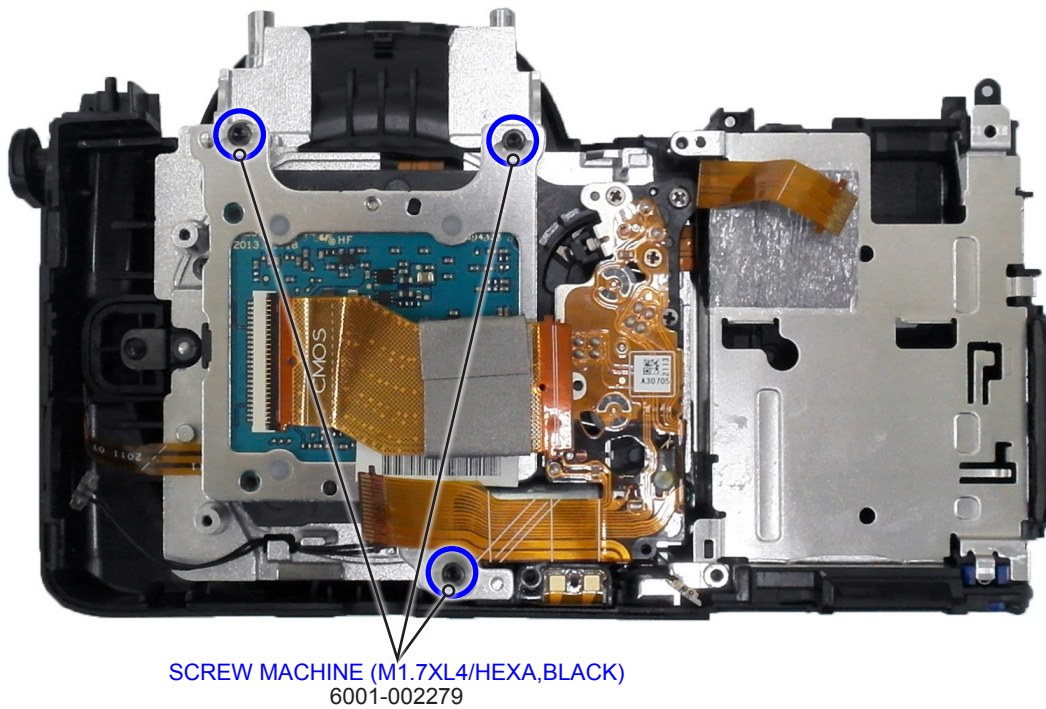


Fig. 3-38

2. Remove the following parts in the order indicated below.

- ① **ASSY CMOS**
- ② **SPRING-CS**

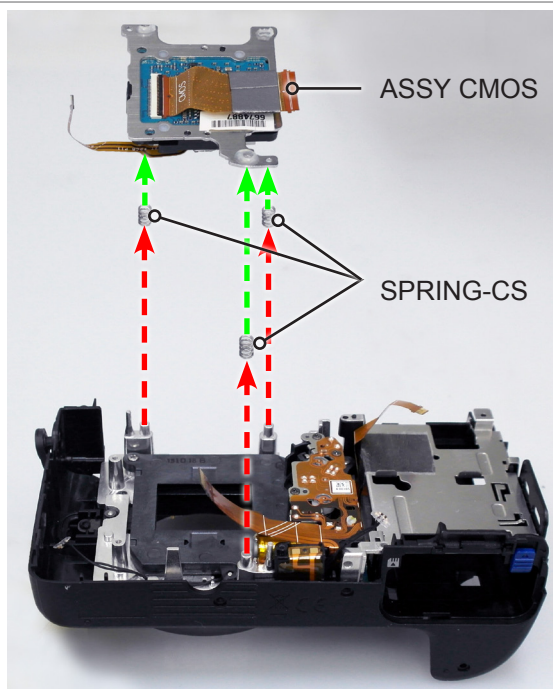


Fig. 3-39



3. Remove the 2 screws.

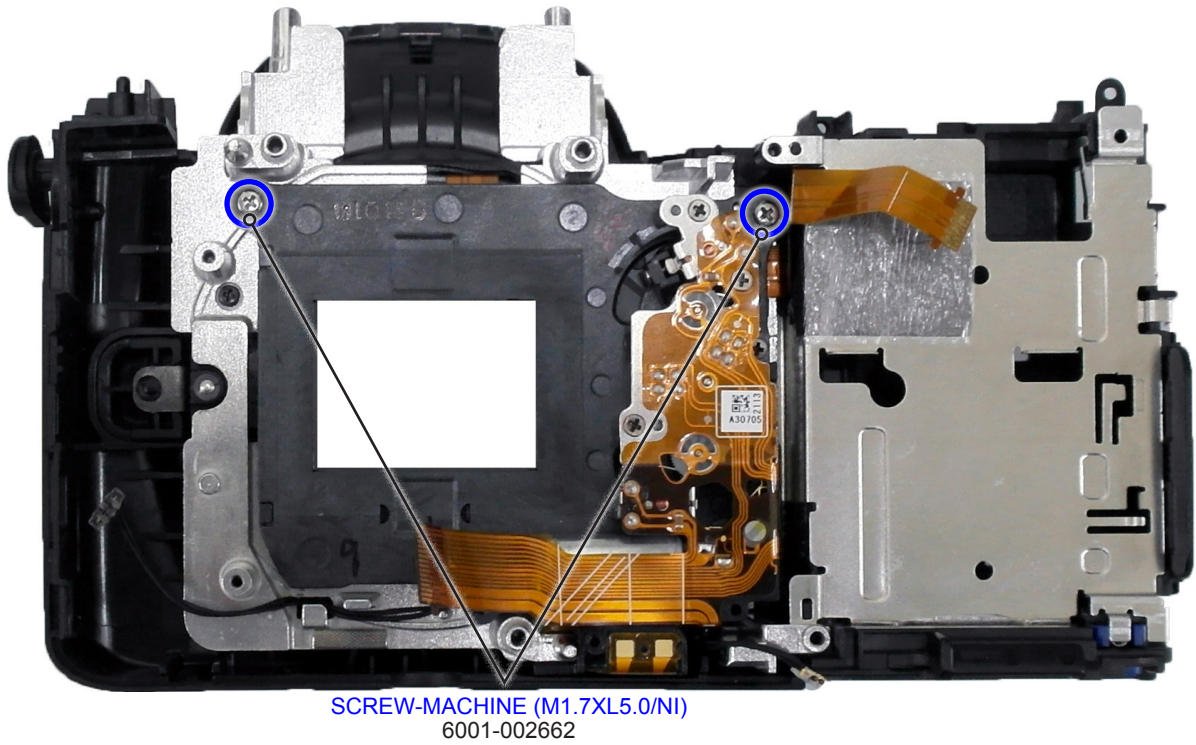


Fig. 3-40

4. Remove the **ASSY-SHUTTER**.

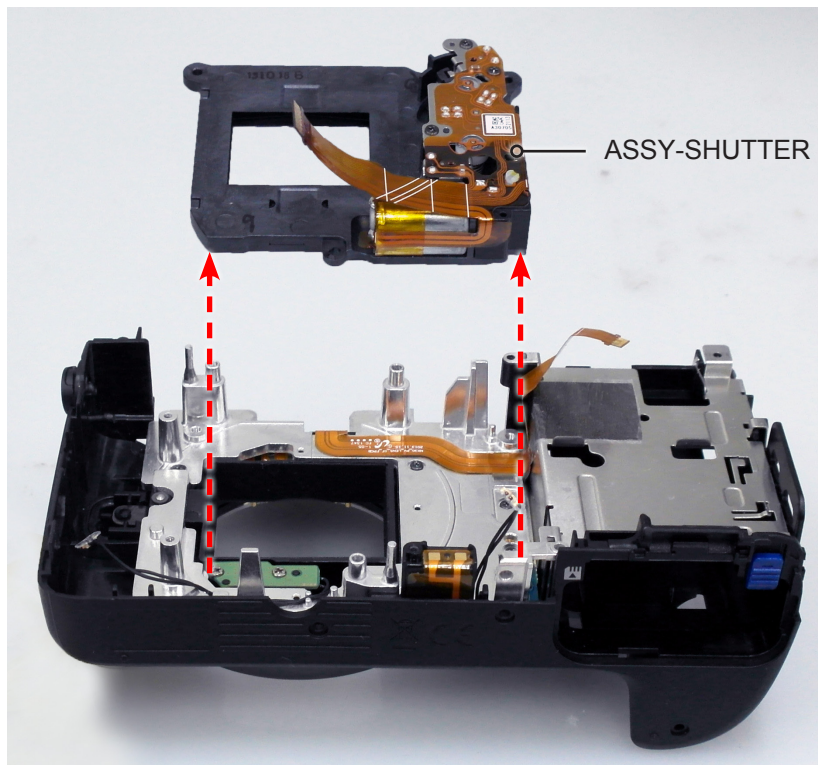


Fig. 3-41

5. Remove the 4 screws.



Fig. 3-42

6. Remove the following parts in the order indicated below.

- ① PLATE-MOUNT LENS
- ② MOUNT-INNER
- ③ PLATE-MOUNT SPRING
- ④ SHAFT-LENS DETECT
- ⑤ SPRING LENS DETECT

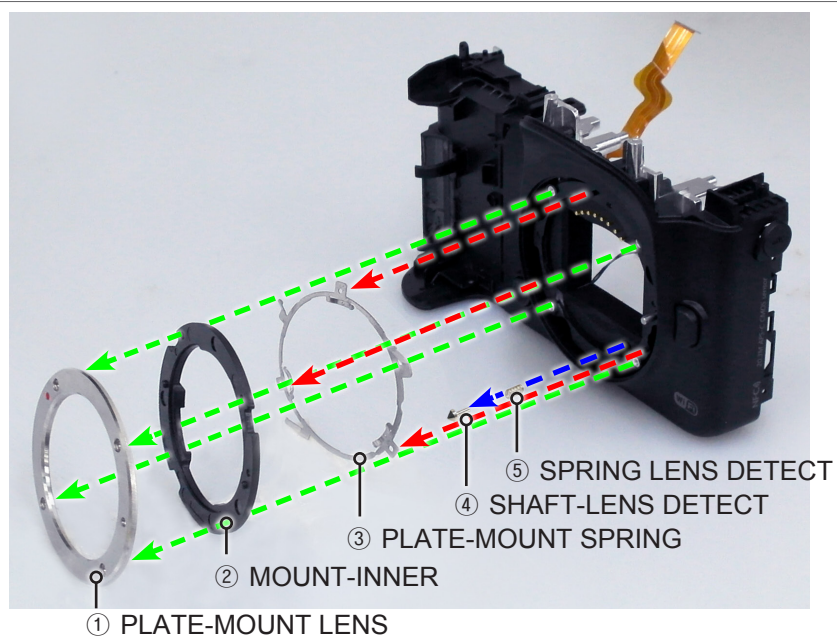


Fig. 3-43



7. Remove the **FPCB** that is attached on the **HOLDER MOUNT**.

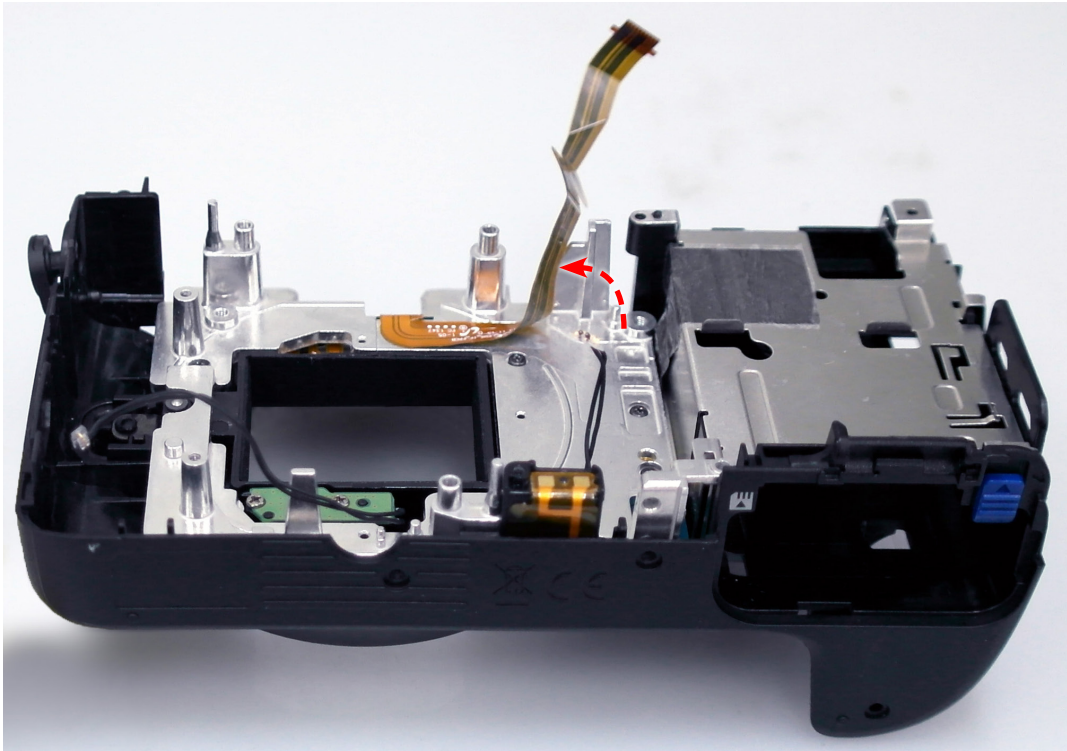
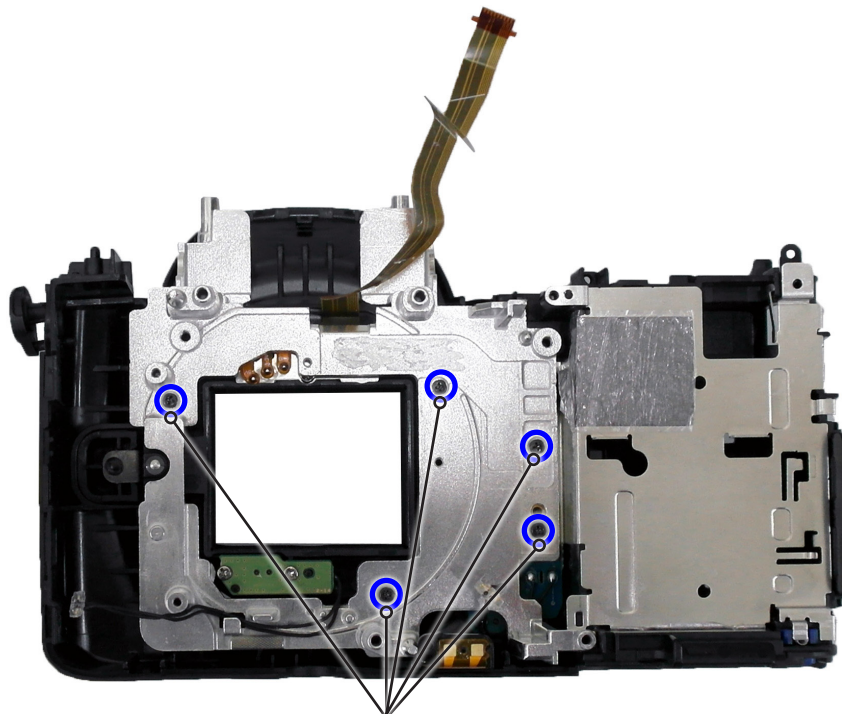


Fig. 3-44

8. Remove the **5 screws**.



SCREW TAP (M1.4XL4/BLACK)  
6003-001641

Fig. 3-45

9. Remove the following parts in the order indicated below.

- ① **HOLDER MOUNT**
- ② **ASSY HOLDER INNER MOUNT**
- ③ **ANTENNA-WIFI\_ANT**

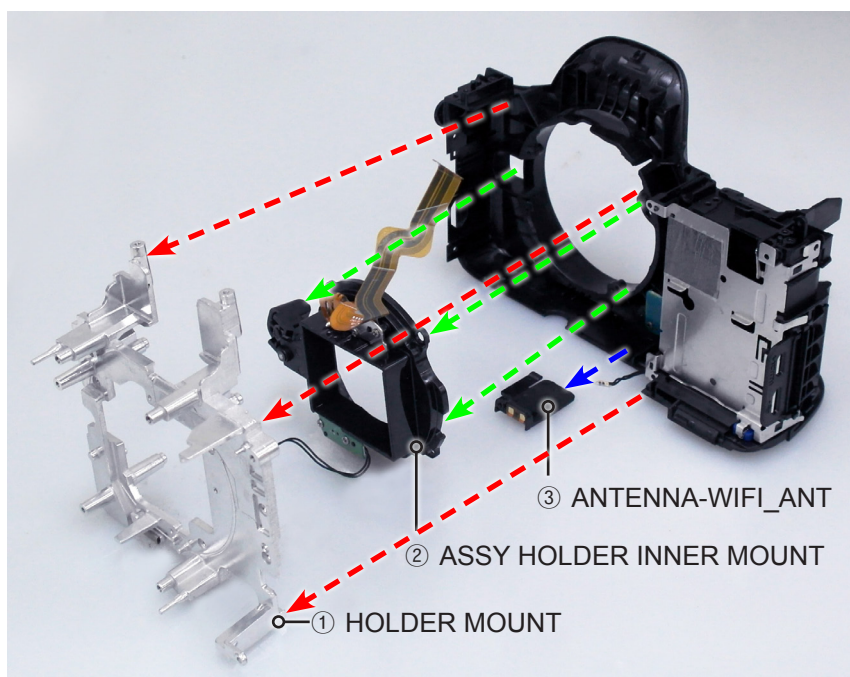


Fig. 3-46

10. Remove the **screw**.

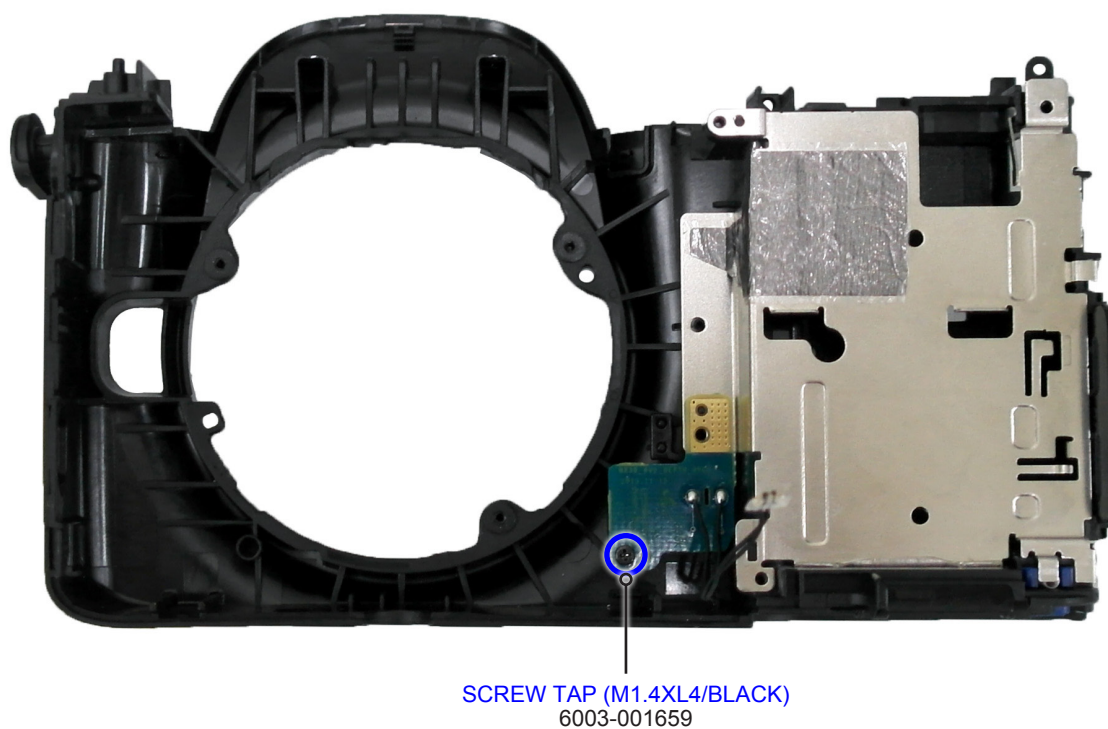


Fig. 3-47



8. Remove the **ASSY PCB DEPTH**.

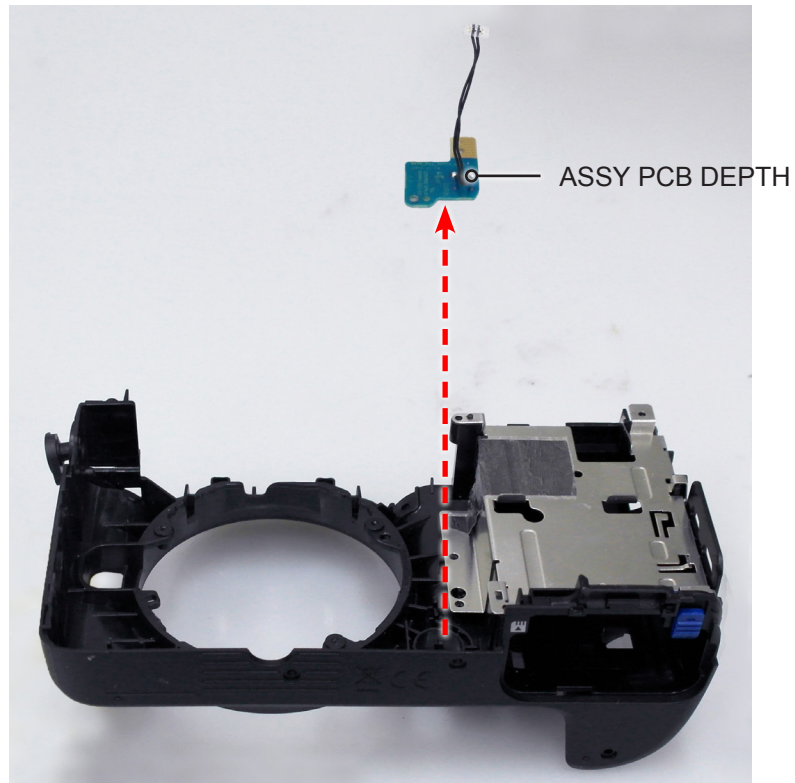


Fig. 3-48

- 12. Remove the **3 locking parts** marked in green circle as illustrated in **Fig. A** and **Fig. B**.
- 13. Remove the **PLATE BATTERY CHAMBER** and **SPRING-ETC**.

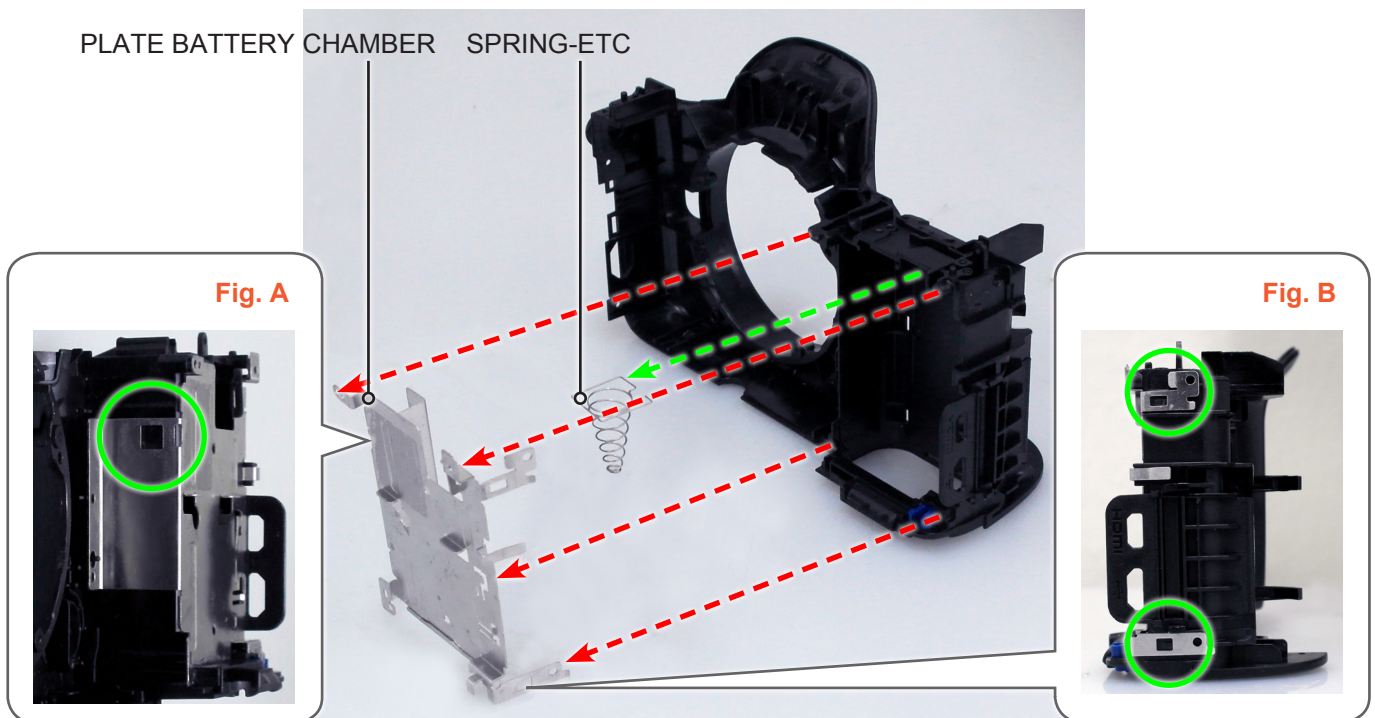


Fig. 3-49

## 3-2 Reassembly

### 3-2-1 Technical expertise support - Reassembly

1. Install the following parts in the order indicated below.

- ① **SPRING-ETC**
- ② **PLATE BATTERY CHAMBER**

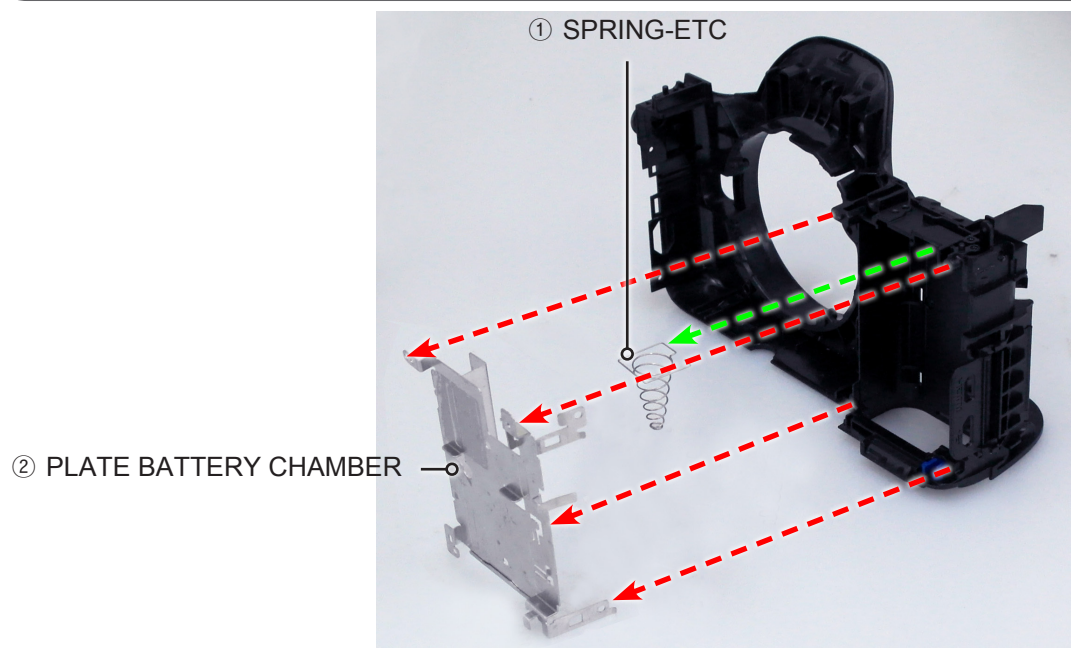


Fig. 3-50

2. Remove the **ASSY PCB DEPTH**.

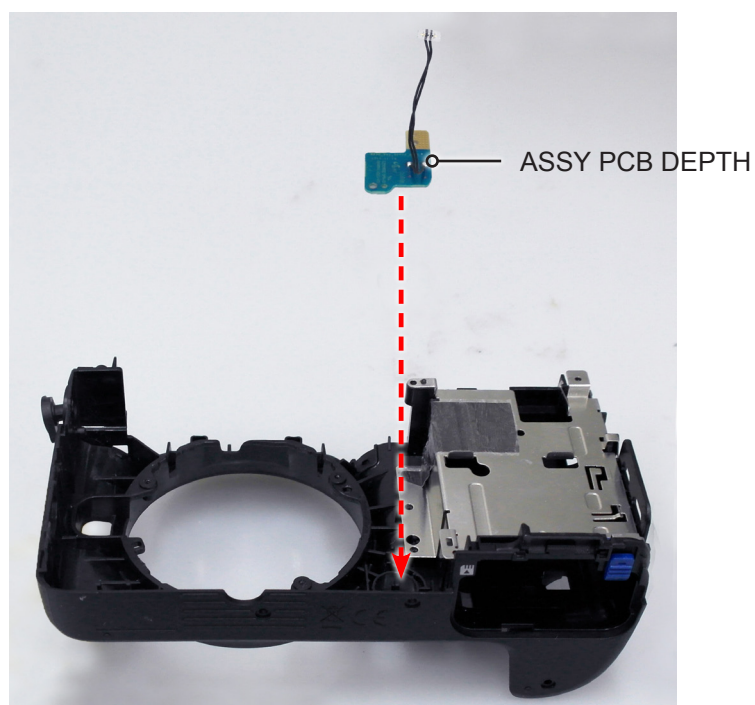


Fig. 3-51



3. Tighten the **screw**.

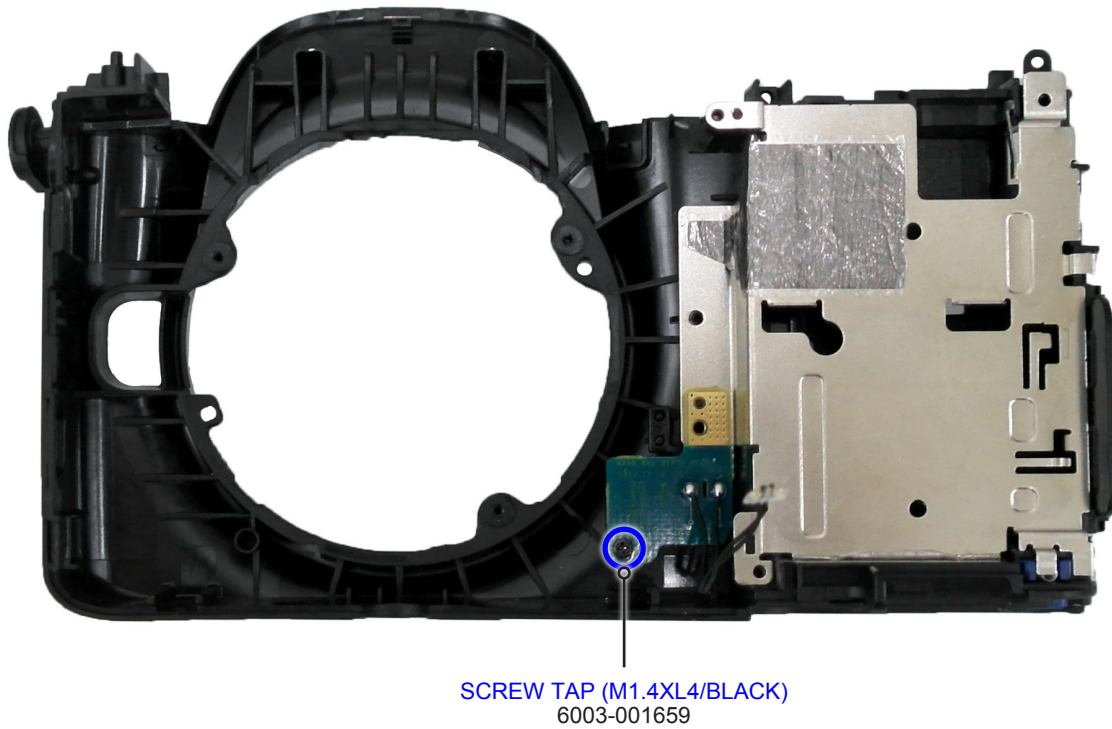


Fig. 3-52

4. Install the following parts in the order indicated below.

- ① ANTENNA-WIFI\_ANT
- ② ASSY HOLDER INNER MOUNT
- ③ HOLDER MOUNT

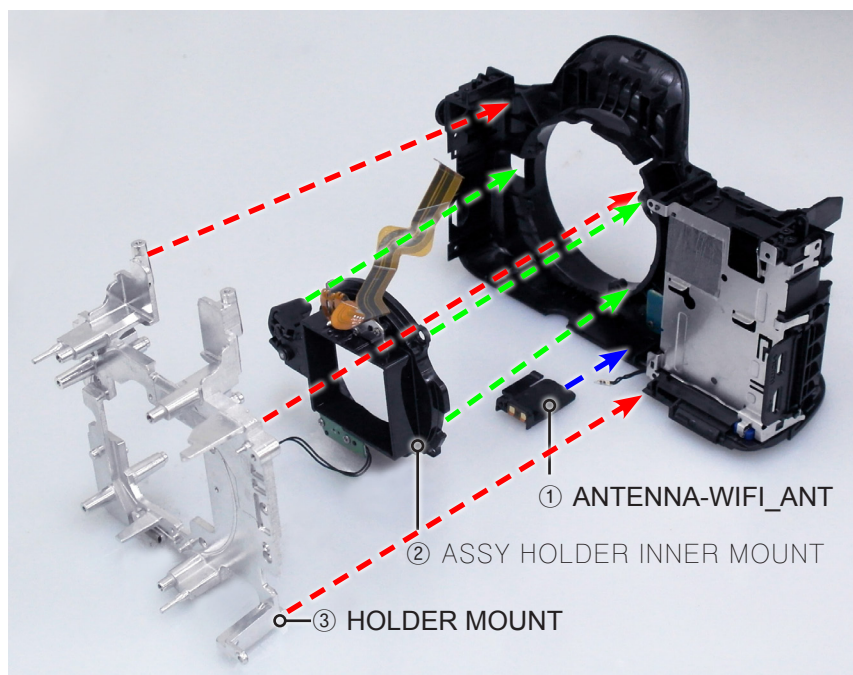


Fig. 3-53

5. Tighten the **5 screws**.

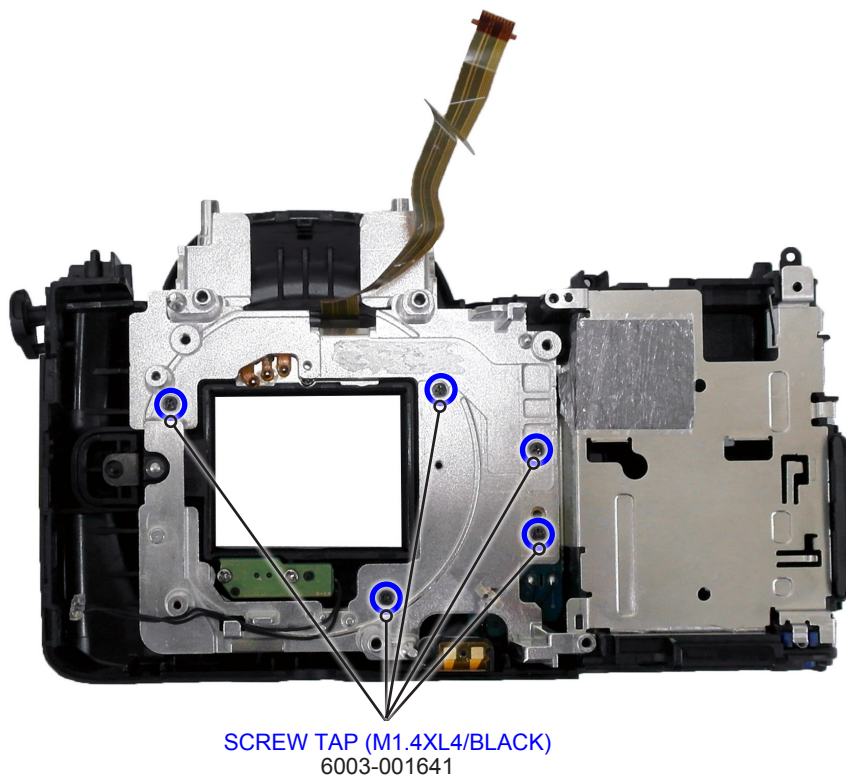


Fig. 3-54

6. Attach the FPCB on the **HOLDER MOUNT**.

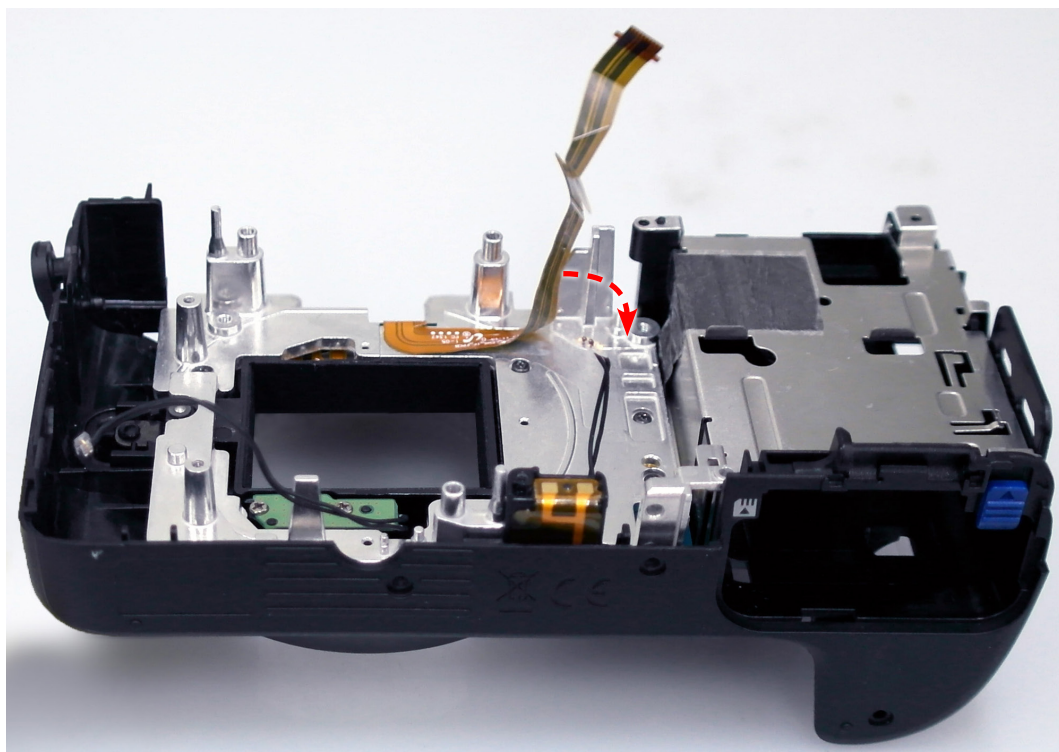


Fig. 3-55



7. Install the following parts in the order indicated below.

- ① **SPRING LENS DETECT**
- ② **SHAFT-LENS DETECT**
- ③ **PLATE-MOUNT SPRING**
- ④ **MOUNT-INNER**
- ⑤ **PLATE-MOUNT LENS**

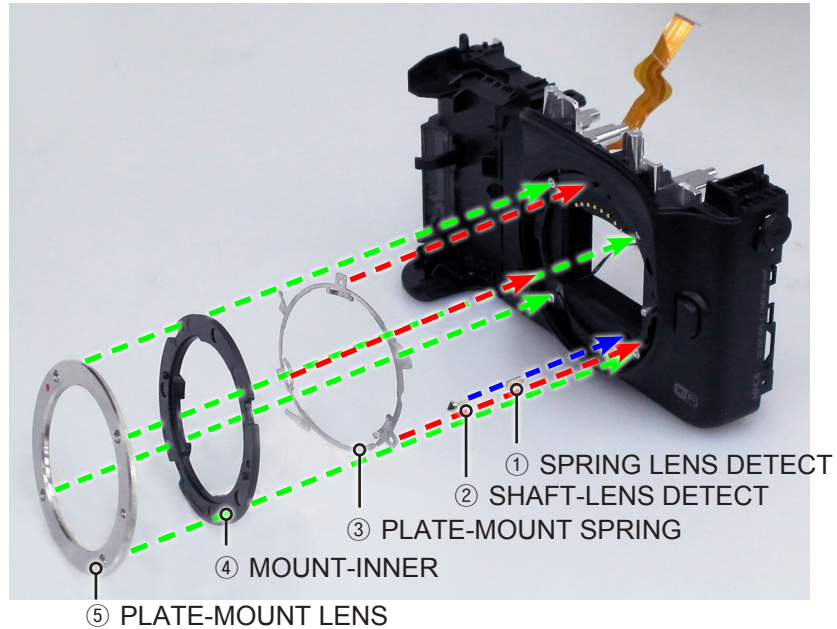


Fig. 3-56

8. Tighten the **4 screws**.



SCREW-MACHINE (M1.7XL5.0/NI)  
6001-002662

Fig. 3-57



9. Install the **ASSY-SHUTTER**.

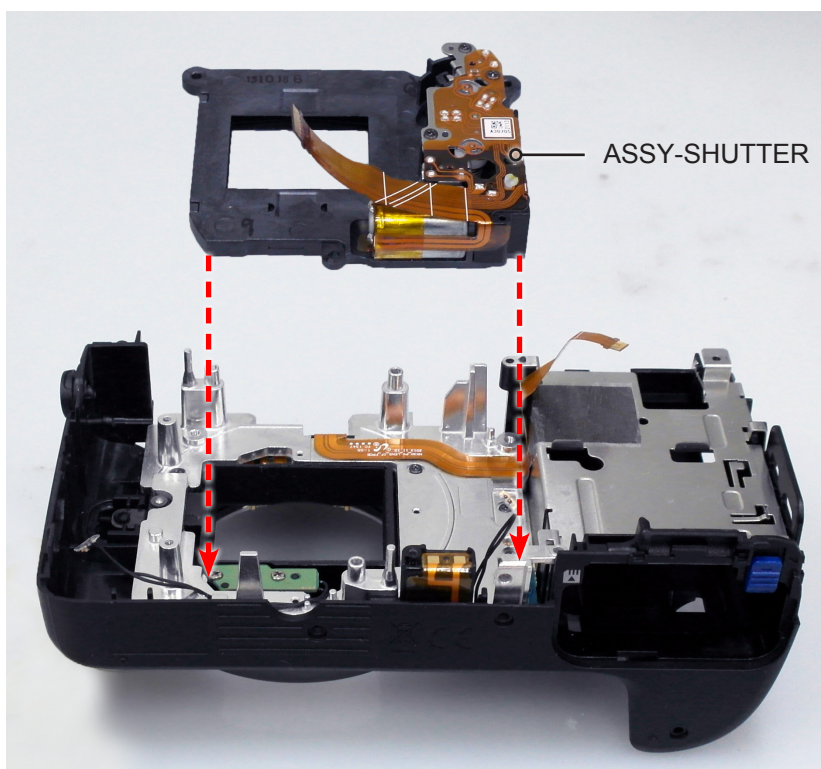
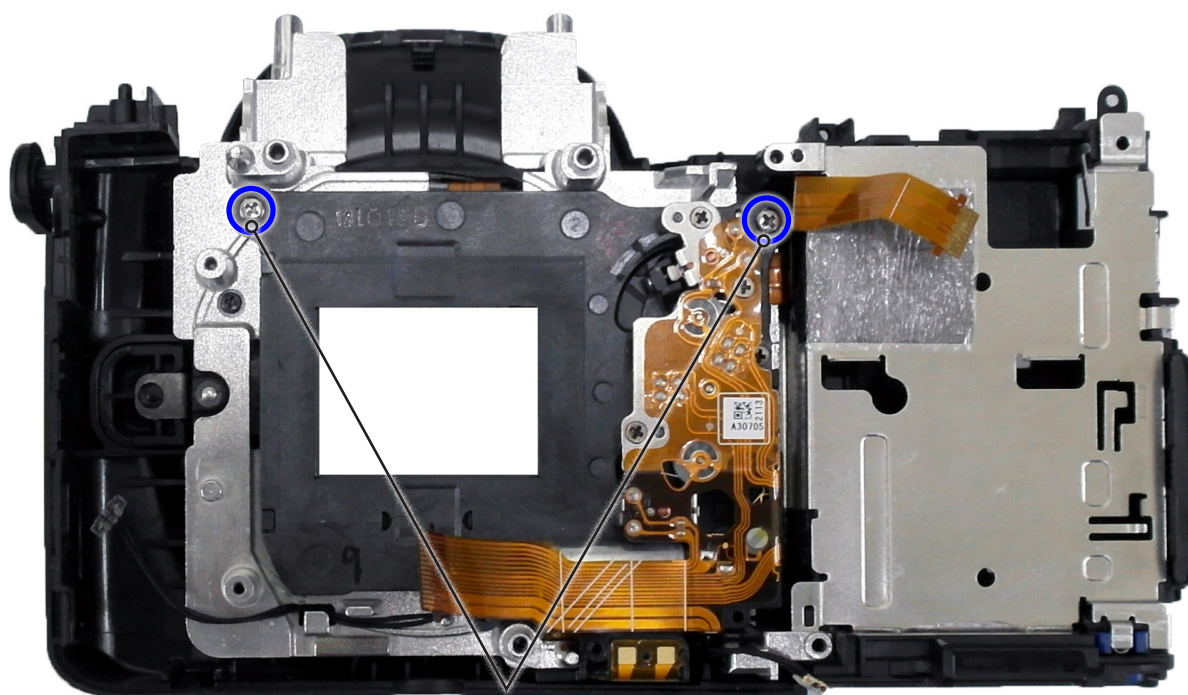


Fig. 3-58

10. Tighten the **2 screws**.



SCREW MACHINE (M1.7XL4/HEXA, BLACK)  
6001-002279

Fig. 3-59

11. Install the following parts in the order indicated below.

- ① **SPRING-CS**
- ② **ASSY CMOS**

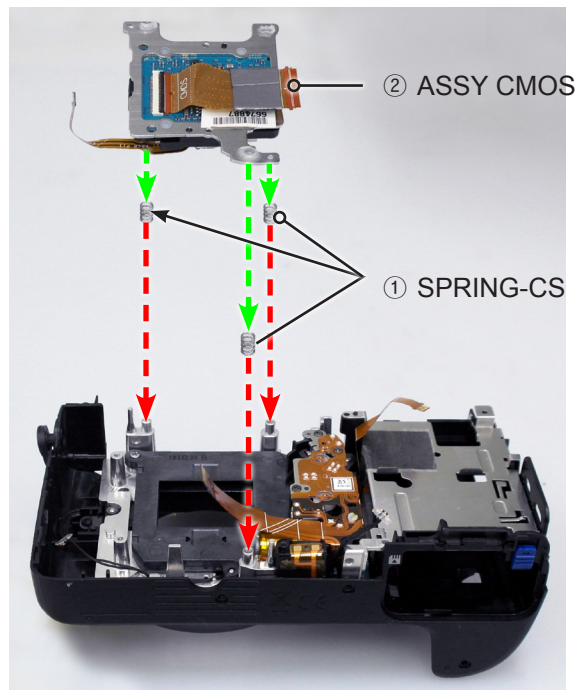
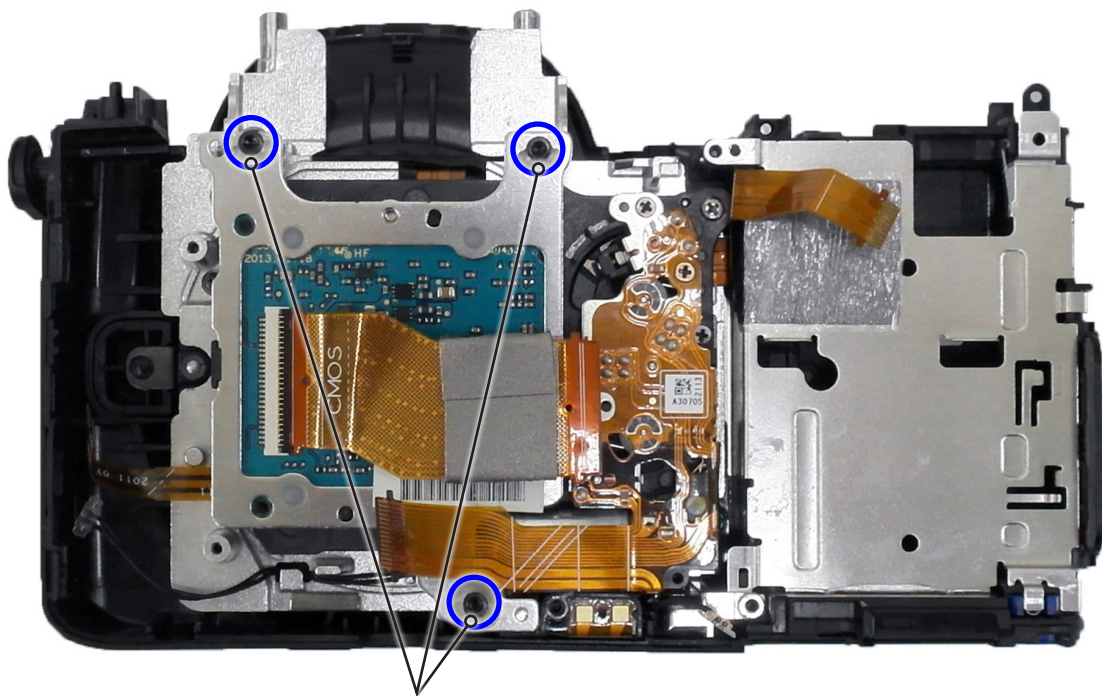


Fig. 3-60

12. Tighten the 3 screws.



**SCREW-MACHINE (M1.7XL5.0/NI)**  
6001-002662

Fig. 3-61



## 3-2-2 General support - Reassembly

1. Install the following parts in the order indicated below.

- ① **HOLDER STRAP R**
- ② **HOLDER STRAP L**

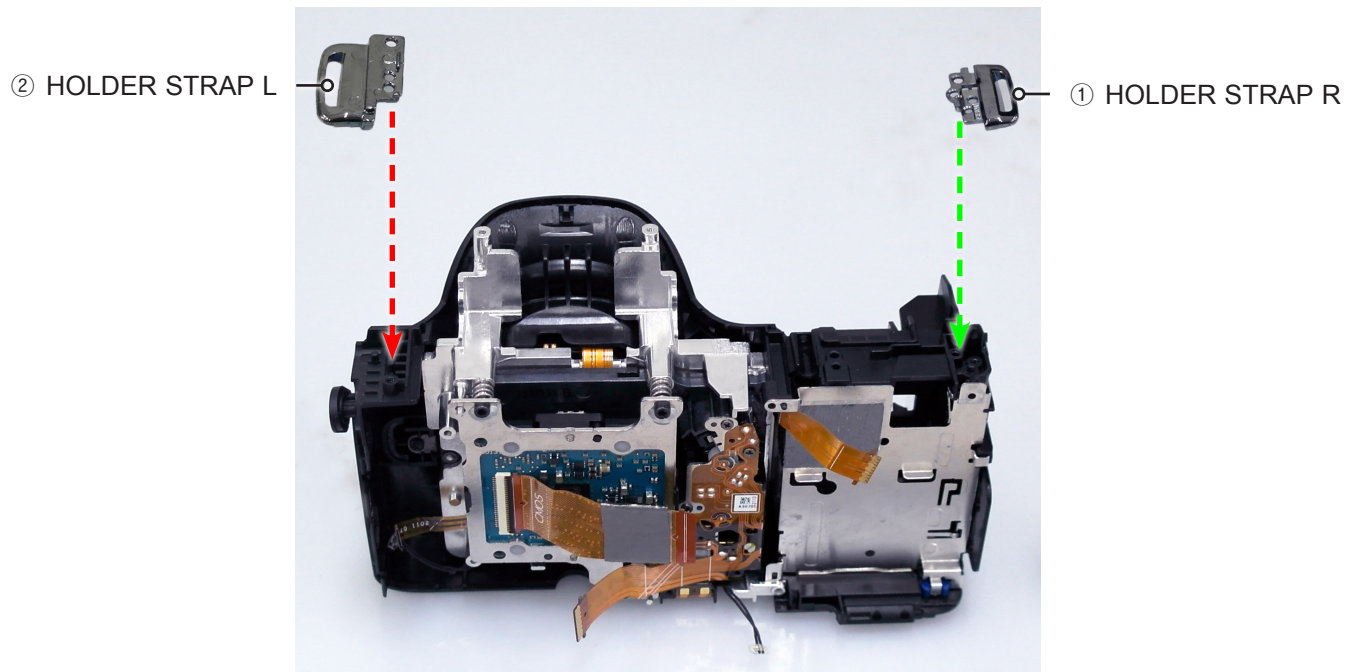
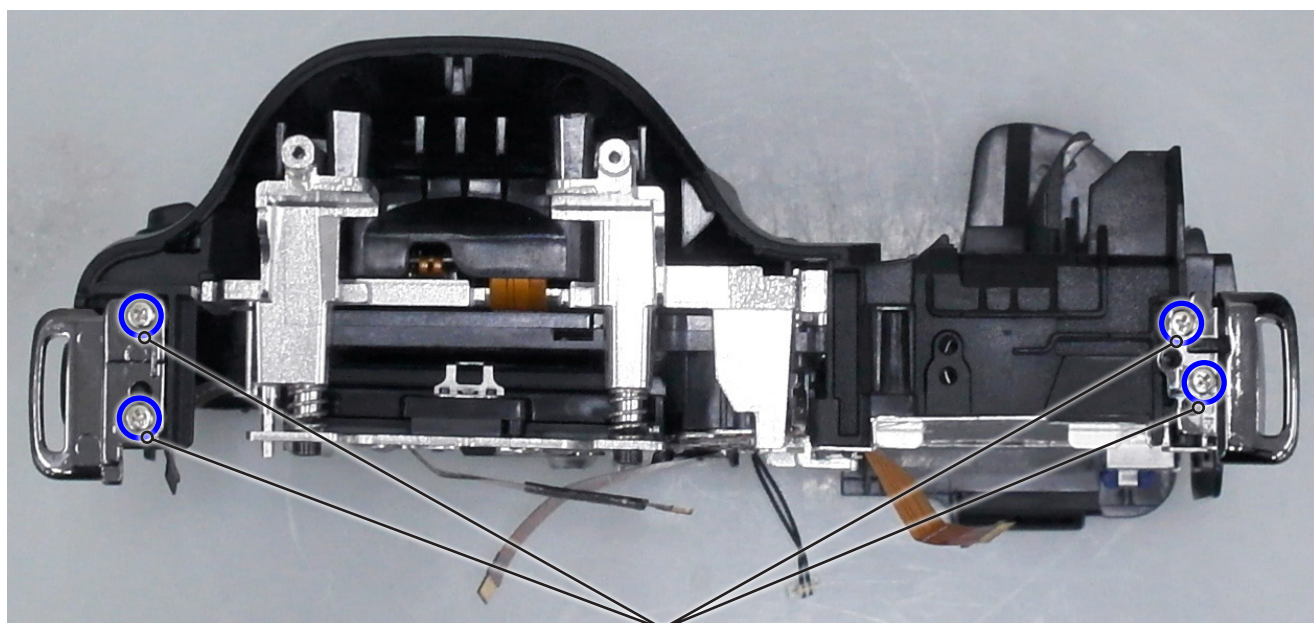


Fig. 3-63

2. Tighten the 4 screws.



SCREW-TATYPE(M1.4XL1.0)  
6001-003021

Fig. 3-62



3. Install the following parts in the order indicated below.

① **PLATE HOT SHOE BOTTOM**

② **PLATE HOT SHOE**

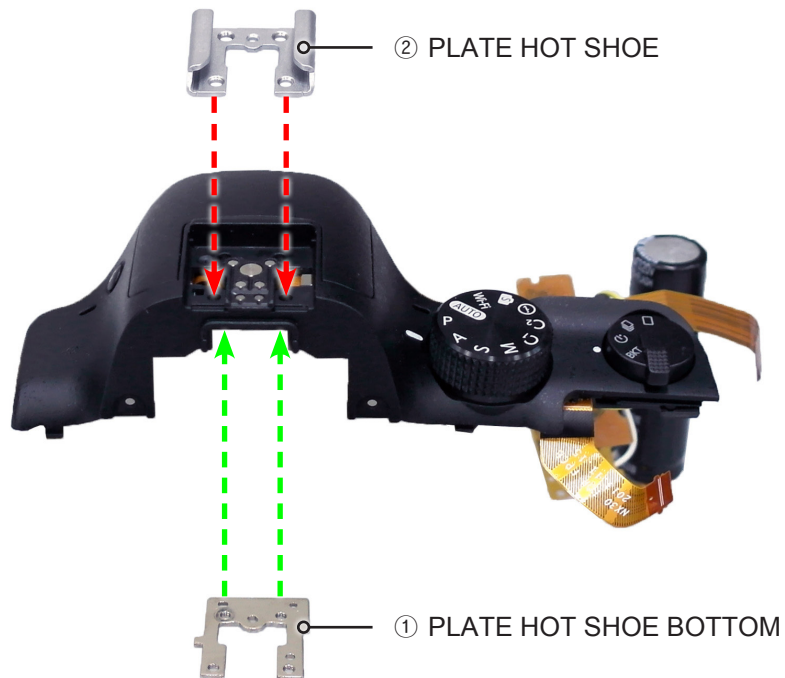


Fig. 3-64

4. Tighten the **4 screws** as illustrated in **Fig. A**.

5. Install the **PLATE-SPRING SHOE**.

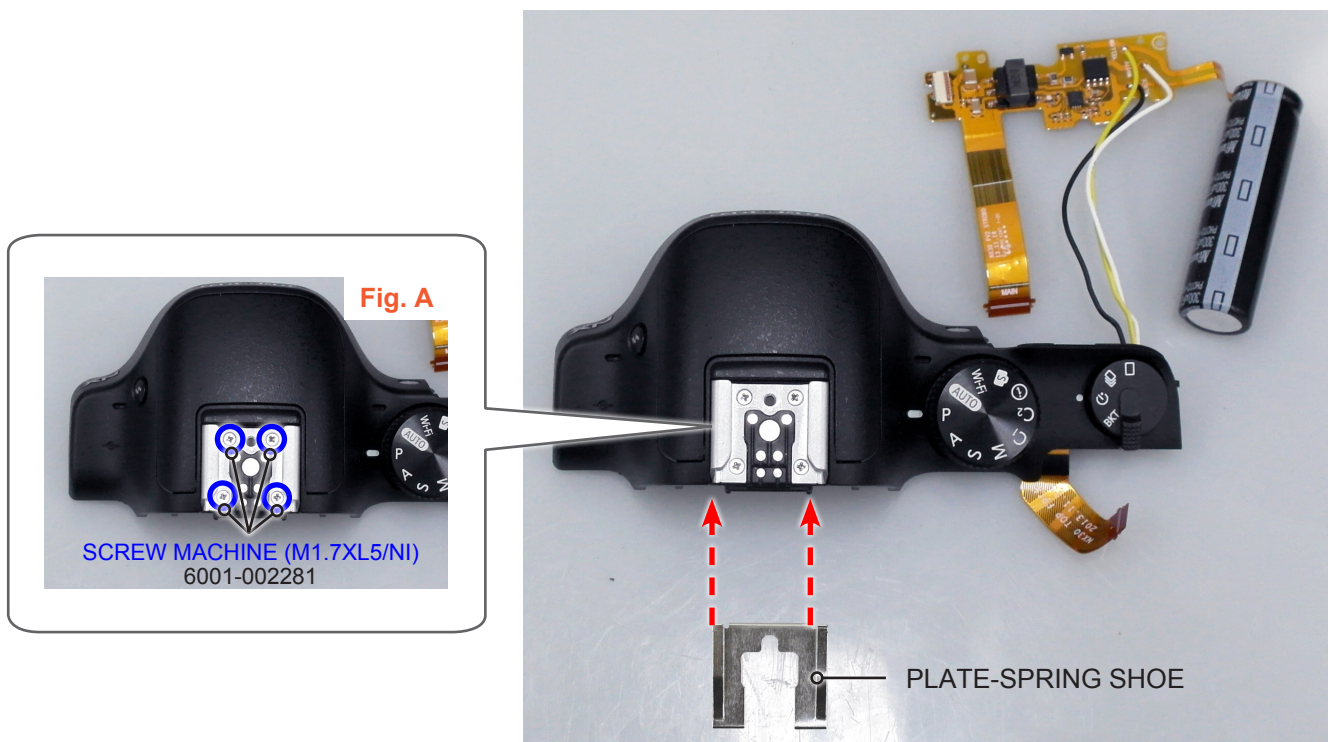


Fig. 3-65

6. Install the **COVER-HOT SHOE**.

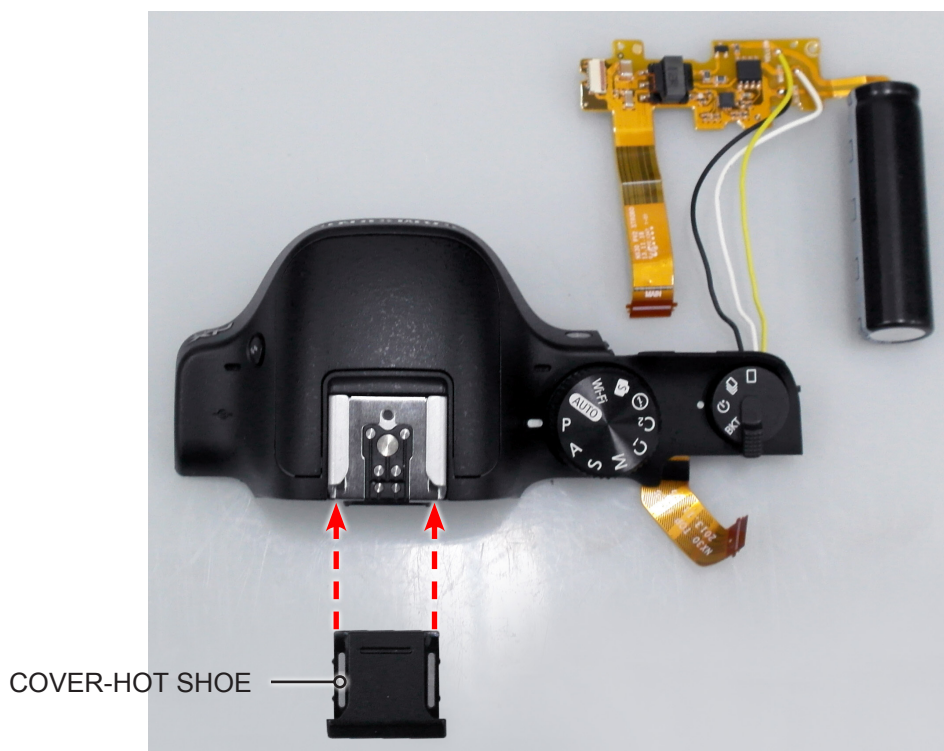


Fig. 3-66

7. Install the **ASSY EVF**.

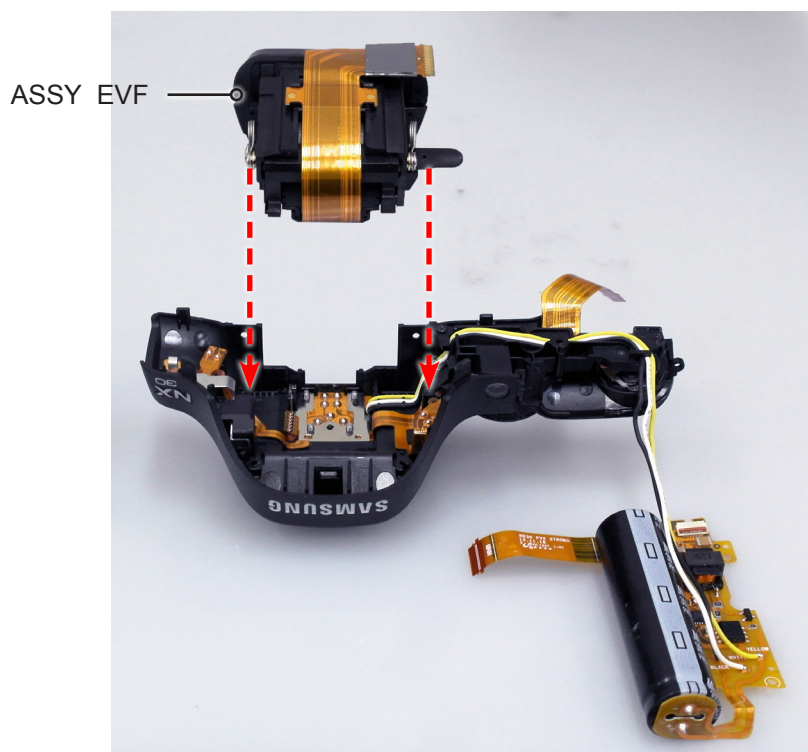


Fig. 3-67

8. Tighten the **2 screws**.

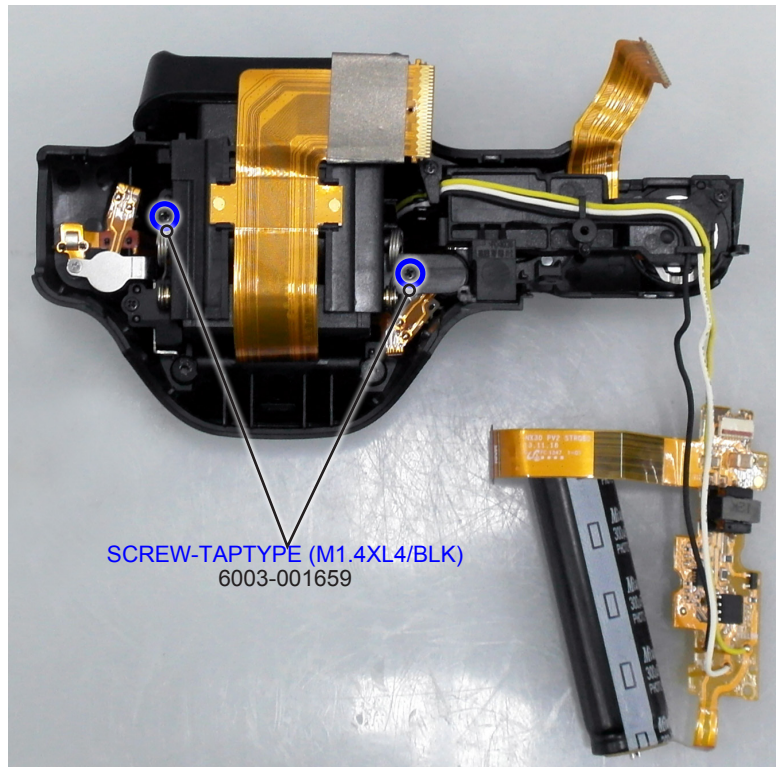


Fig. 3-68

9. Install the **ASSY COVER TOP**.



Fig. 3-69



10. Tighten the **2 screws** as illustrated in **Fig. B**.

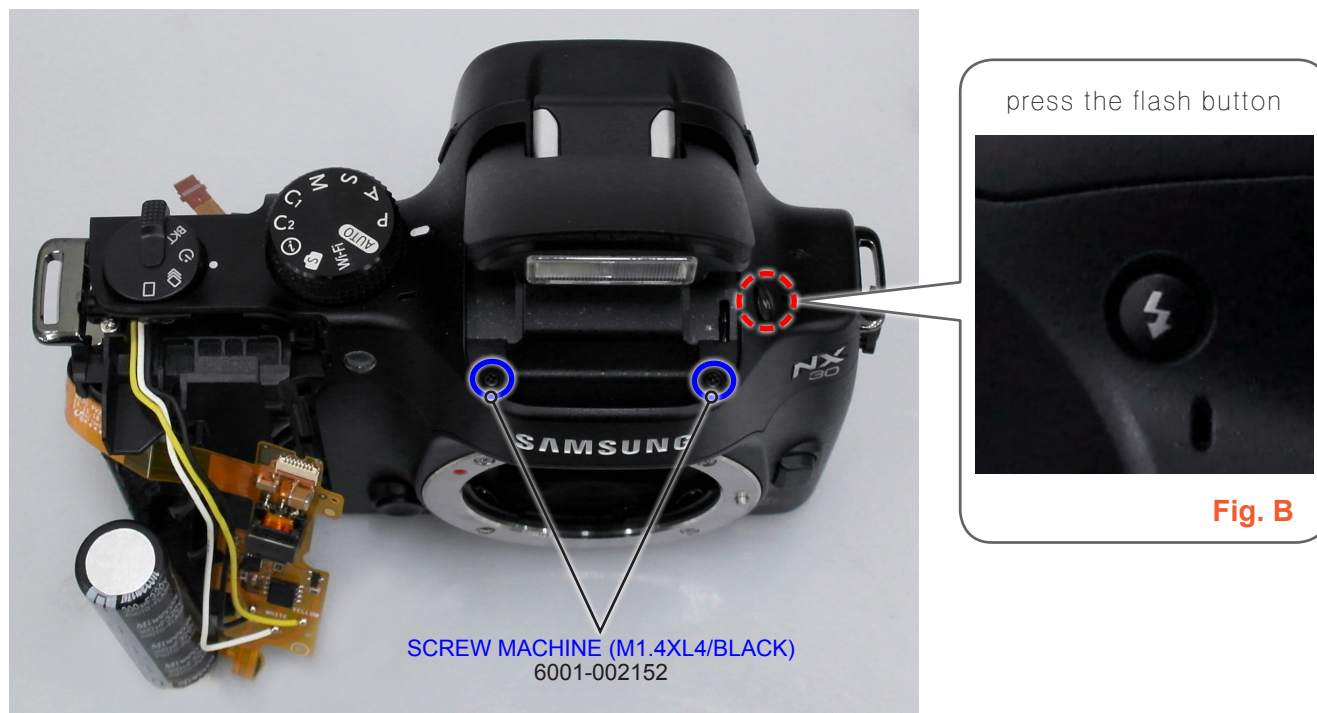


Fig. 3-70

11. Install the **ASSY FPC STROBO**.



Fig. 3-71

12. Install the connector as illustrated in **Fig. C**.

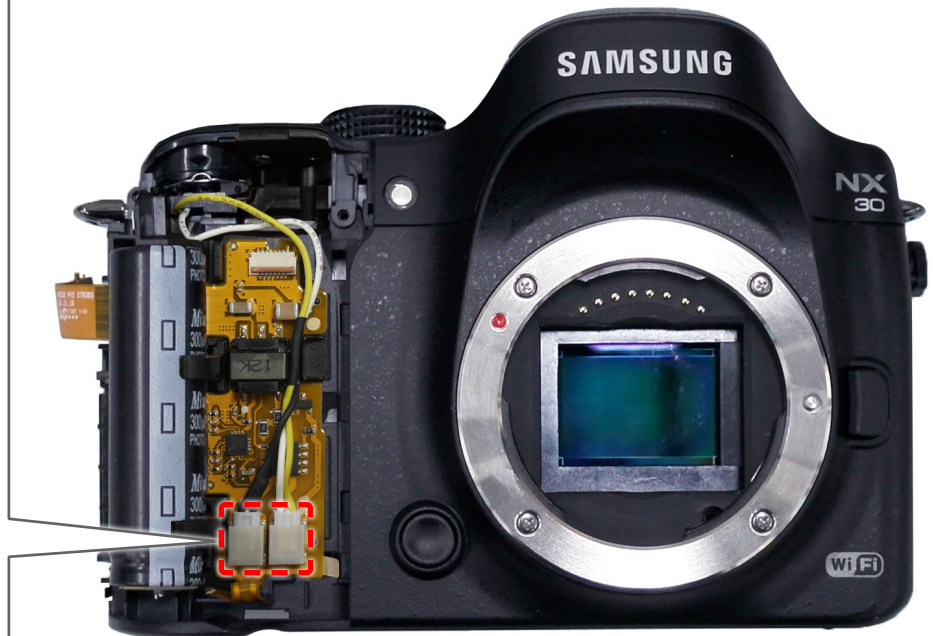
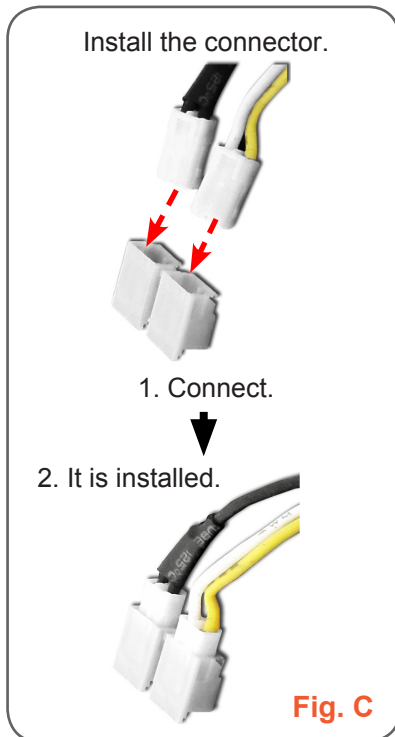


그림 3-72

13. Connect the **FPCB** as illustrated in **Fig. D**.

**CAUTION**

Use extra care when connecting the FPCB to the connector.

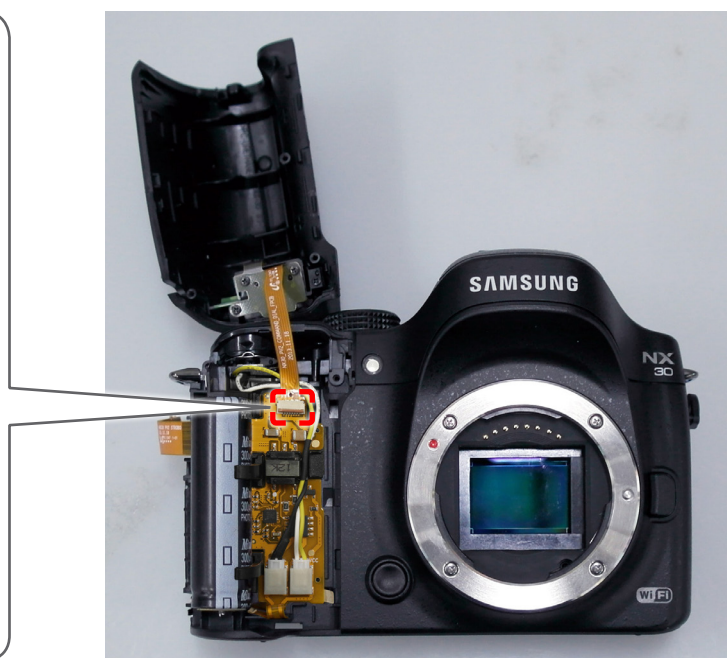
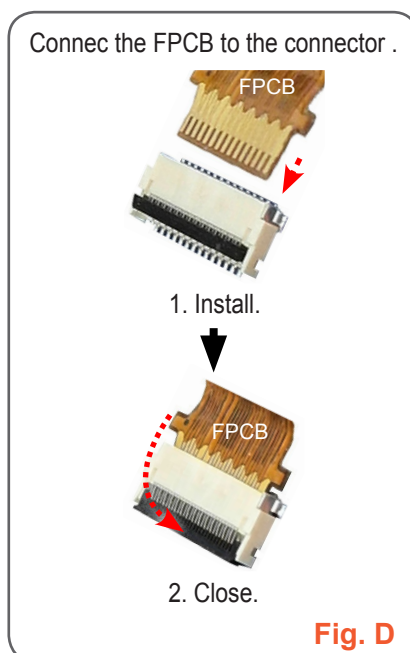


Fig. 3-73



14. Install the **ASSY GRIP-FRONT**.

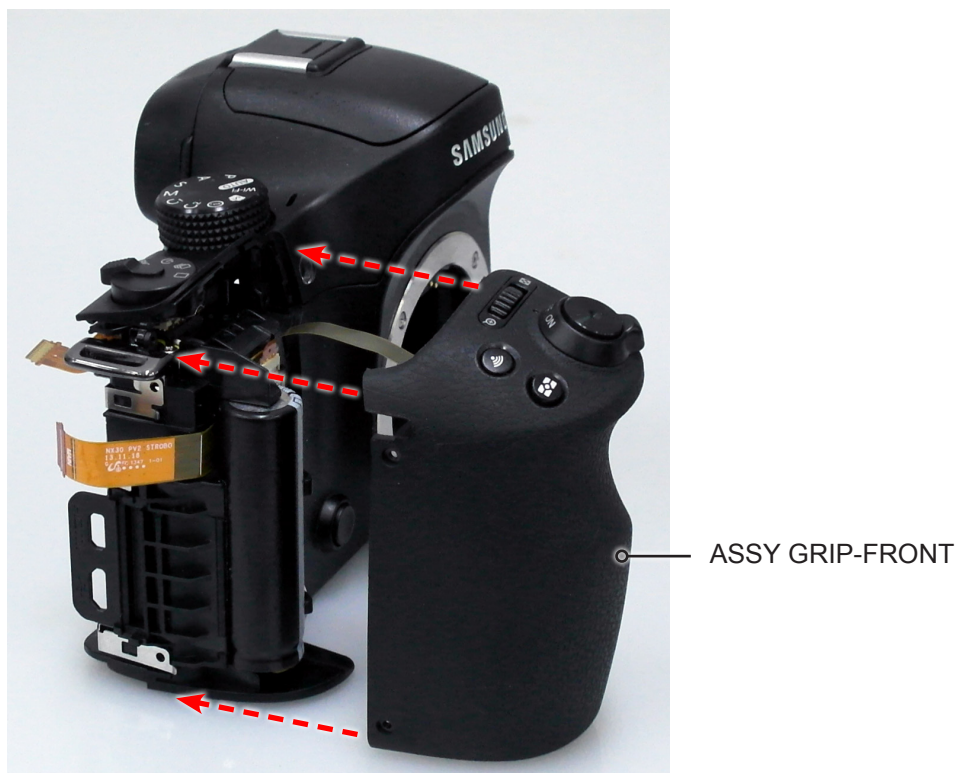
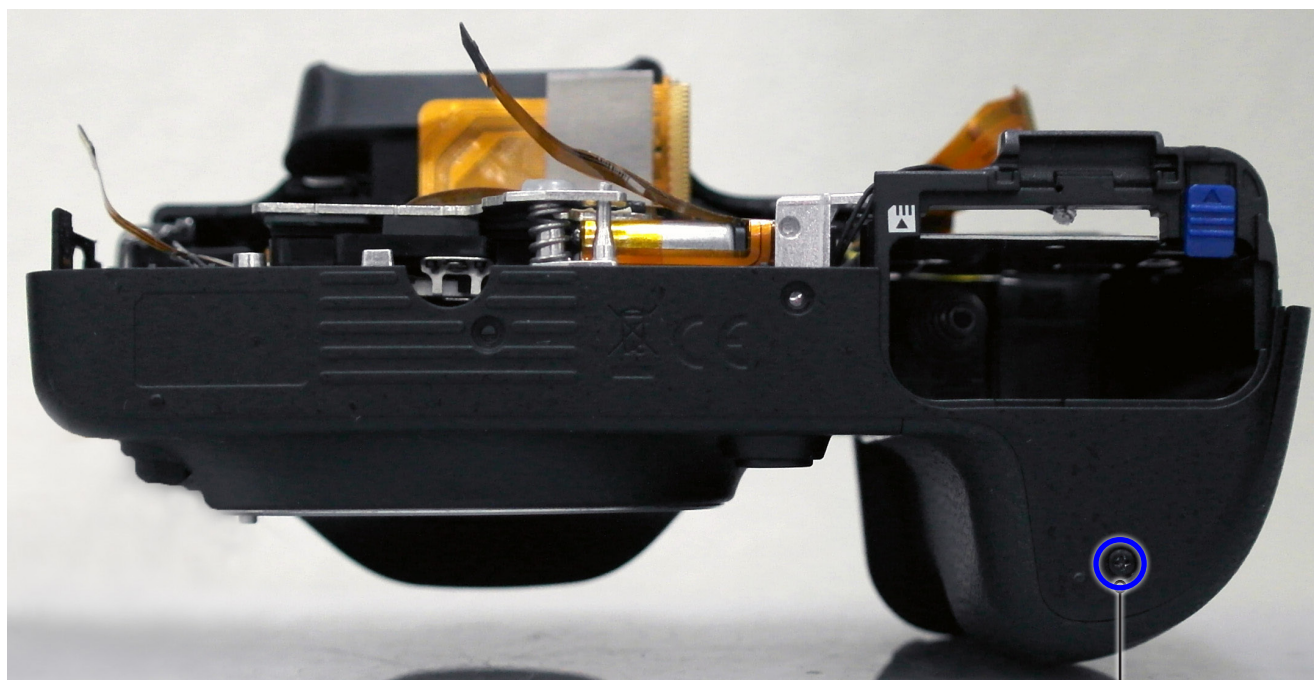


Fig. 3-74

15. Tighten the **screw**.



SCREW MACHINE (M1.4XL4/BLACK)  
6001-002152

Fig. 3-75



16. Tighten the **2 screws**.

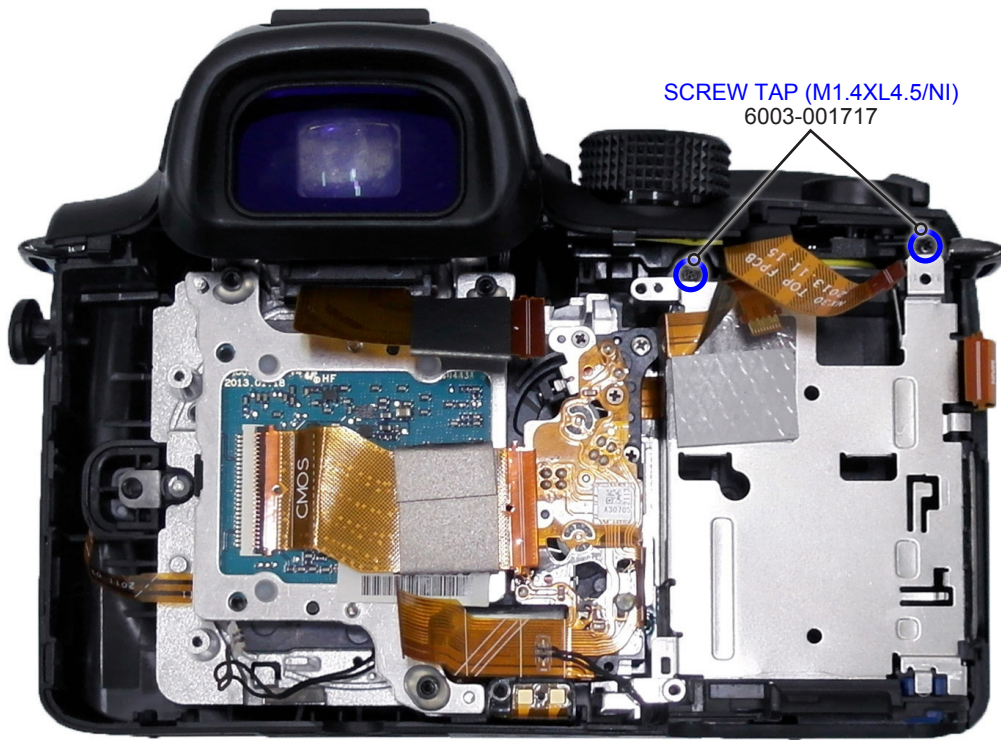
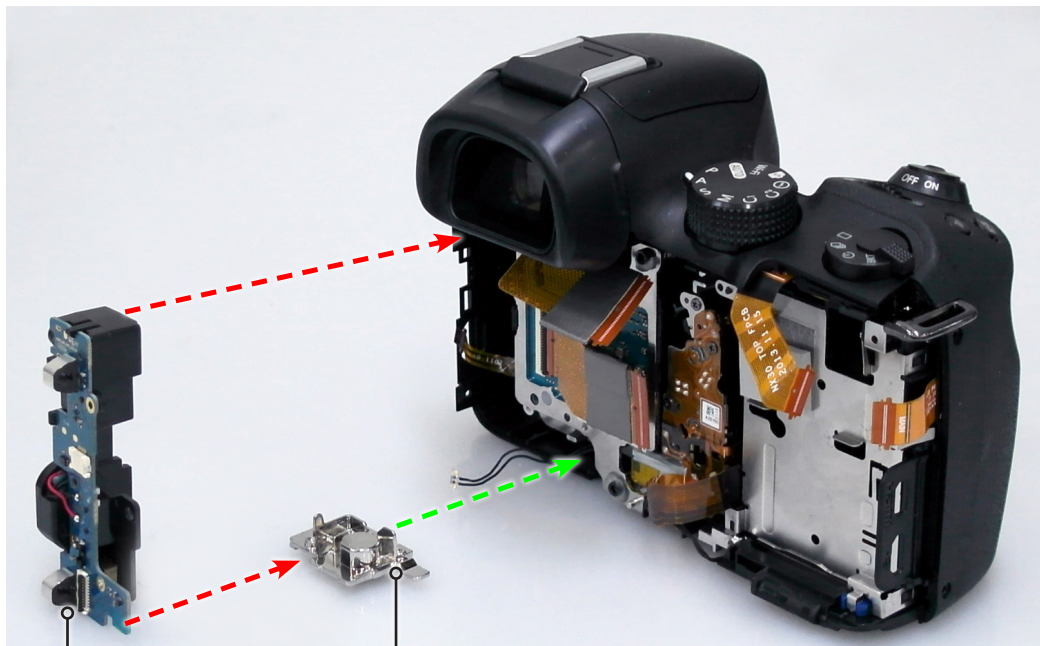


Fig. 3-76

17. Install the following parts in the order indicated below.

- ① **HOLDER-TRIPOD**
- ② **ASSY SPEAKER-DRS PCB**



- ② **ASSY SPEAKER-DRS PCB**
- ① **HOLDER-TRIPOD**

Fig. 3-77

18. Tighten the **2 screws**.
19. Connect the FPCB as illustrated in **Fig. E** and **Fig. F**.
20. Install the WIRE as illustrated in **Fig. G**.



**CAUTION**

Use extra care when connecting the FPCB to the connector.

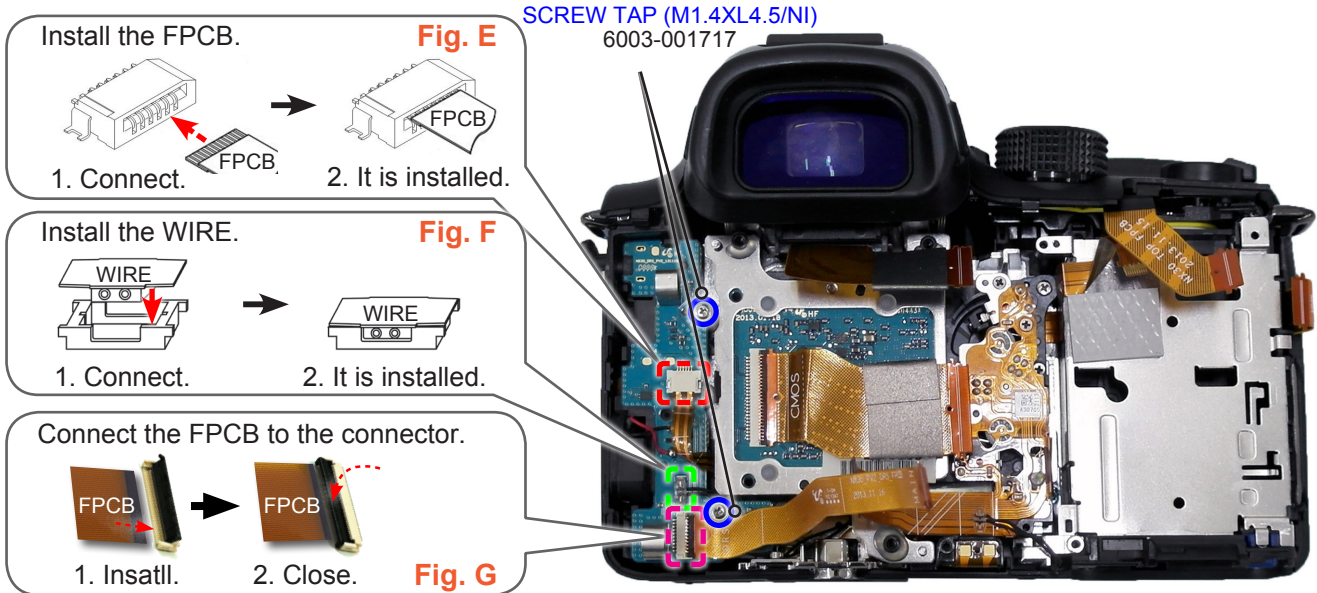
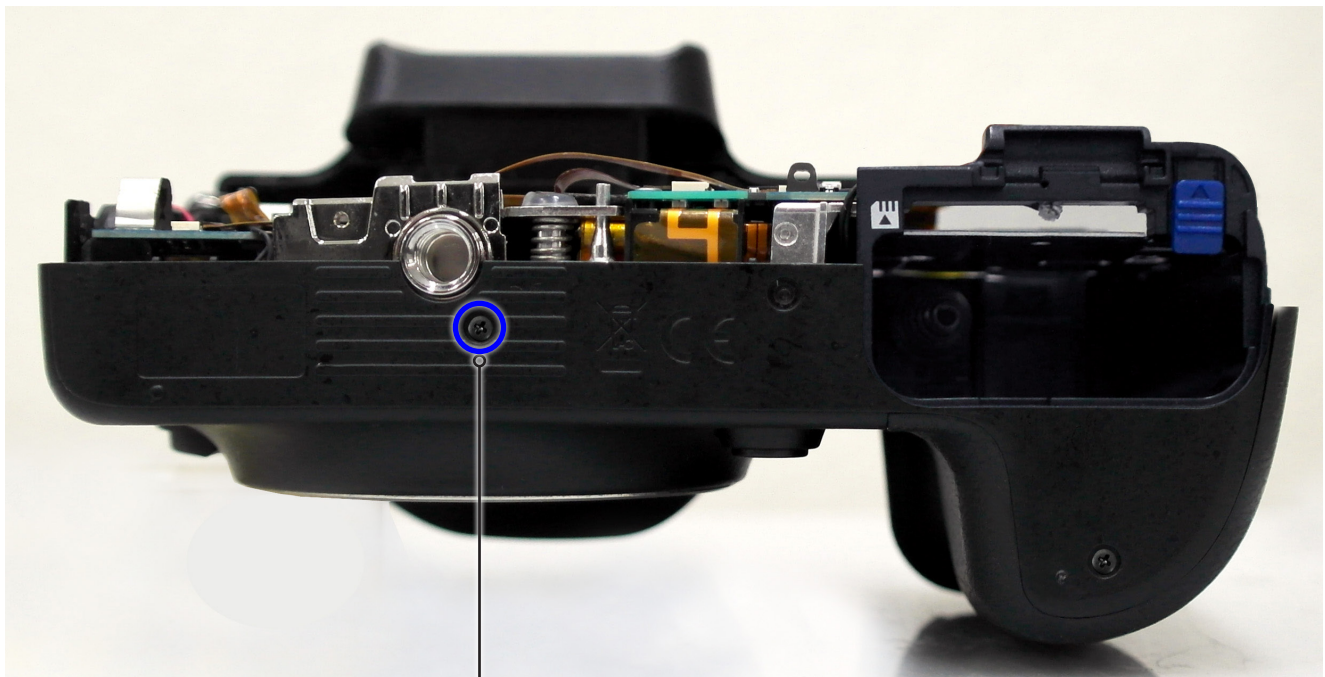


Fig. 3-78

21. Tighten the **screw**.



SCREW MACHINE (M1.4XL4/BLACK)  
6001-002152

Fig. 3-79



22. Install the COVER-MIC.



Fig. 3-80

23. Install the ASSY PCB MAIN.

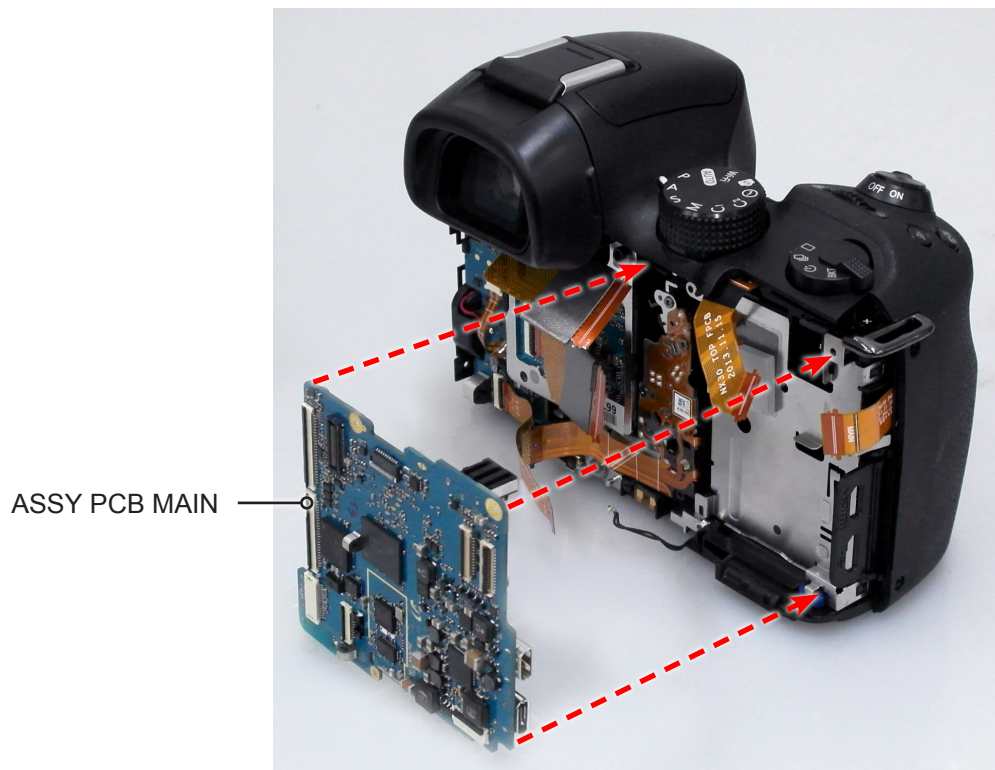


Fig. 3-81



- 24. Tighten the **3 screws**.
- 25. Connect the 5 FPCBs as illustrated in **Fig. H**.
- 26. Install the WIRE as illustrated in **Fig. I**.

**CAUTION**

Use extra care when connecting the FPCB to the connector.

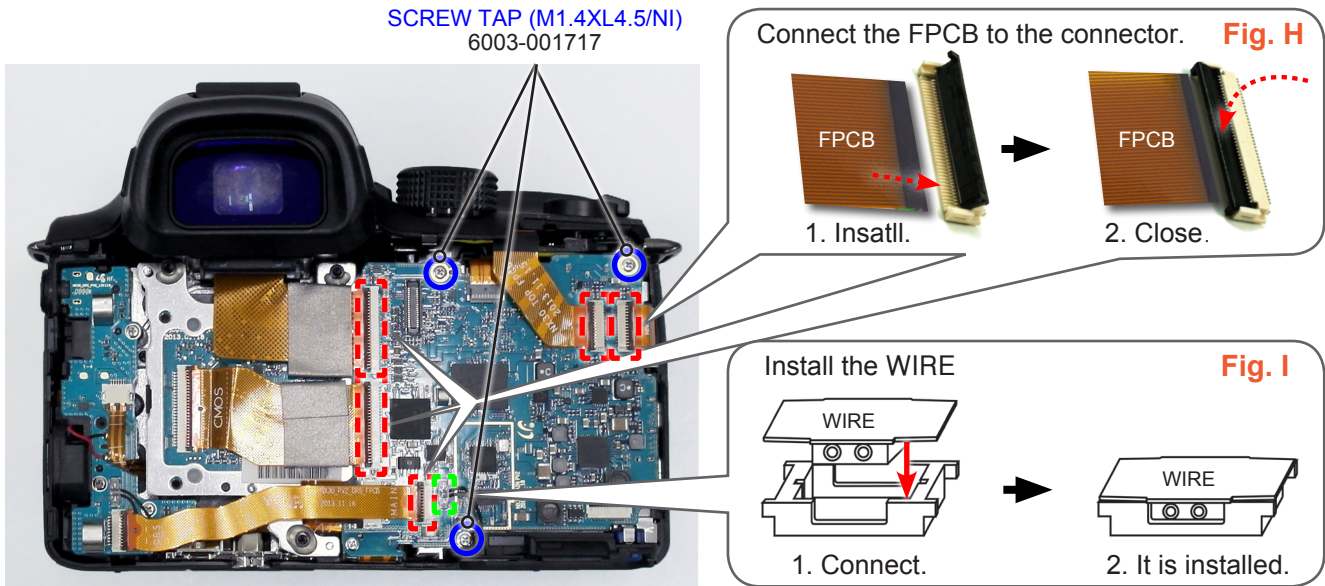


Fig. 3-82

- 27. Install the ASSY COVER BATTERY as illustrated in **Fig. J**.

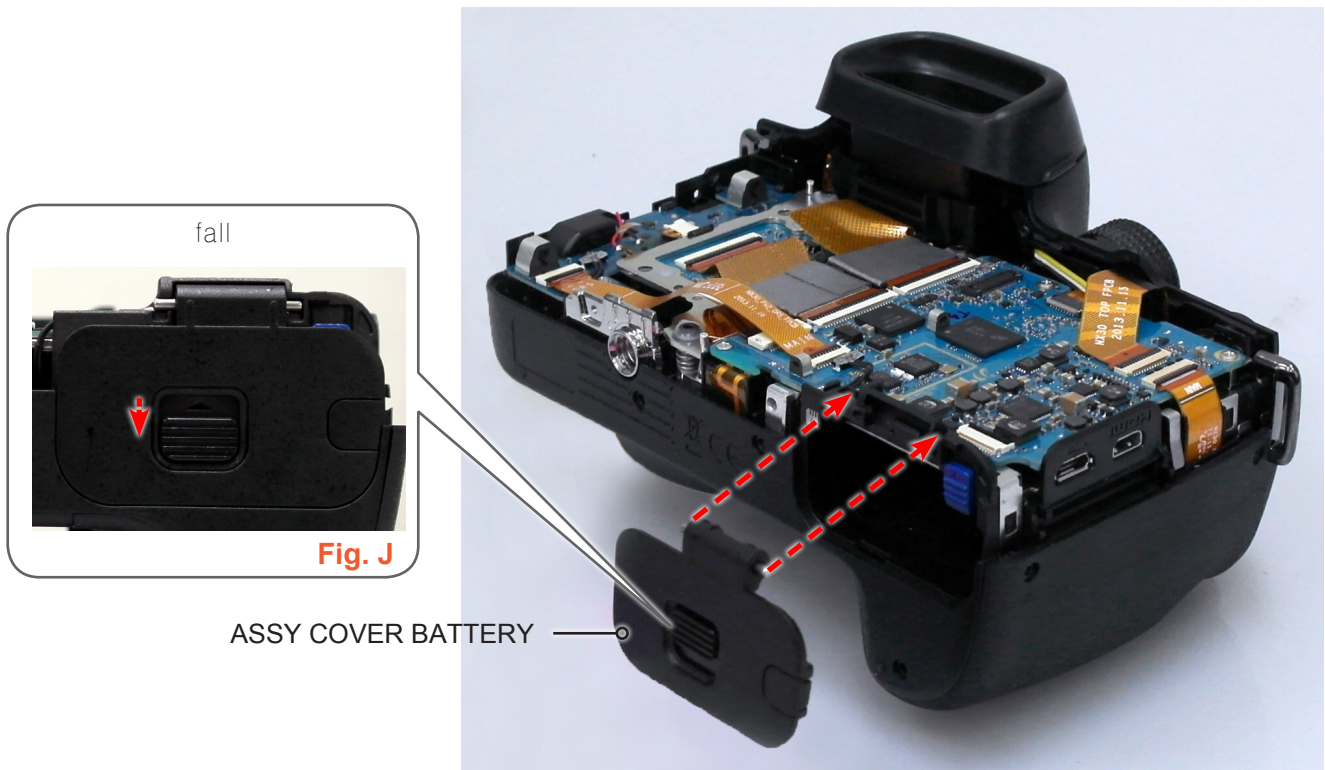


Fig. 3-83

28. Install the **COVER JACK**.

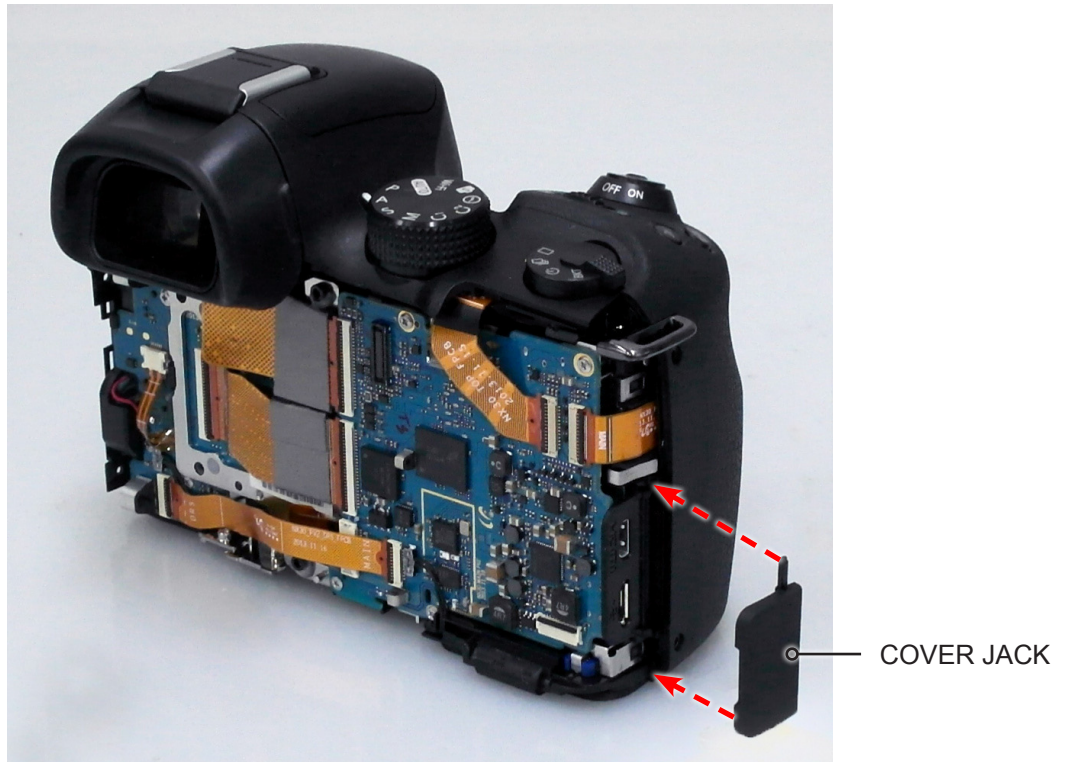


Fig. 3-84

29. Install the **ASSY-OLED HINGE** as illustrated in **Fig. K**.

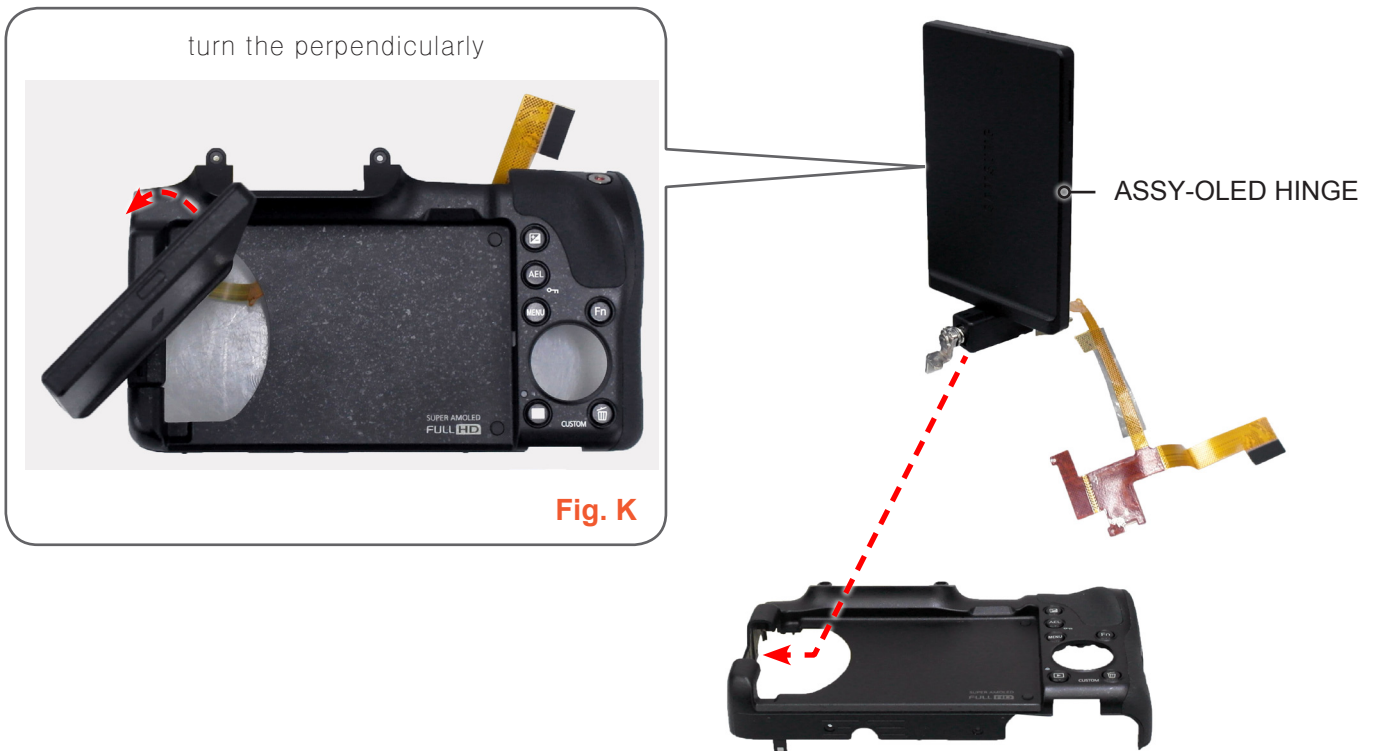


Fig. 3-85



30. Close the **ASSY DISPLAY** in the direction of the arrow.



Fig. 3-86

31. Install the **ASSY COVER BACK INNER**.

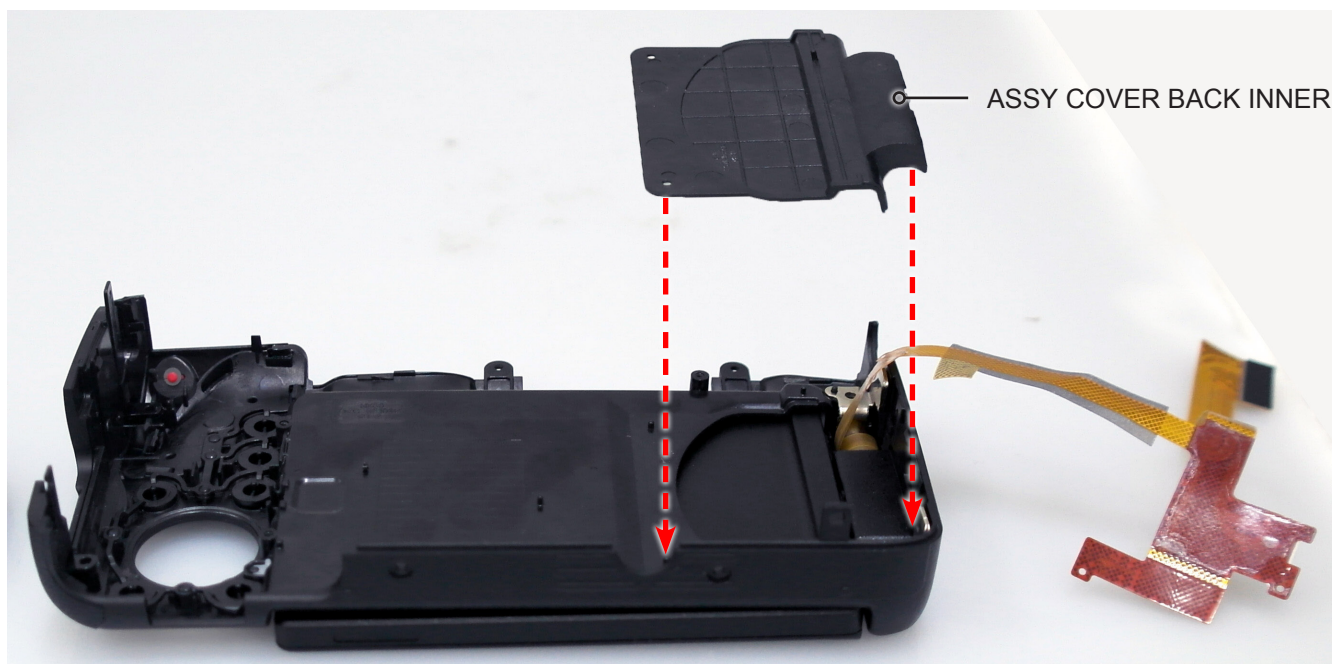


Fig. 3-87



32. Install the following parts in the order indicated below.

- ① **ASSY WHEEL KEY**
- ② **LEVER LOCK LCK**
- ③ **ASSY FRAME MAIN**

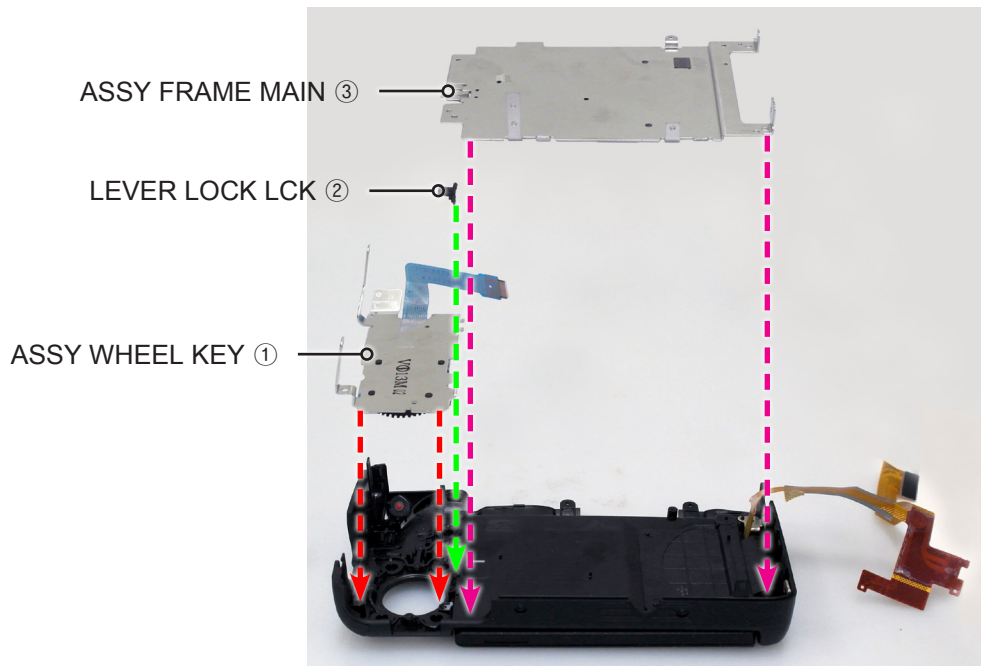


Fig. 3-88

33. Tighten the 7 screws.

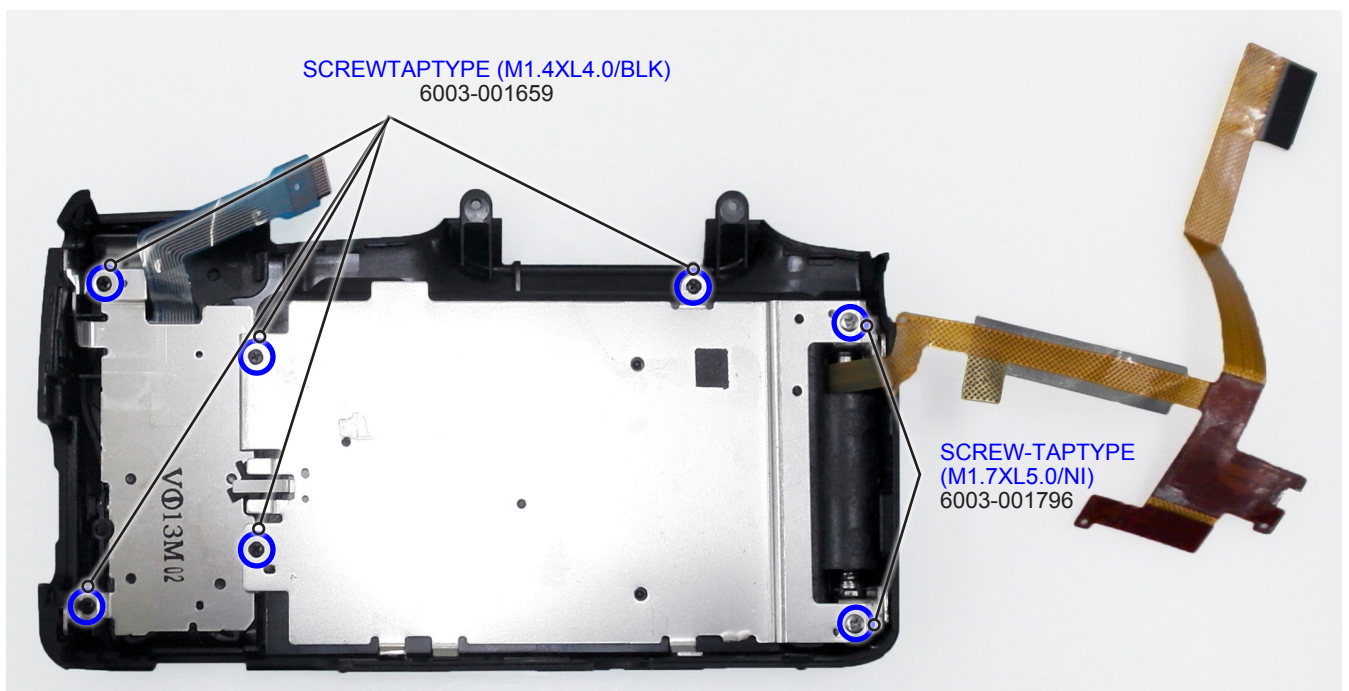


Fig. 3-89

34. Attach the FPCB on the ASSY WHEEL KEY and ASSY-FRAME MAIN.

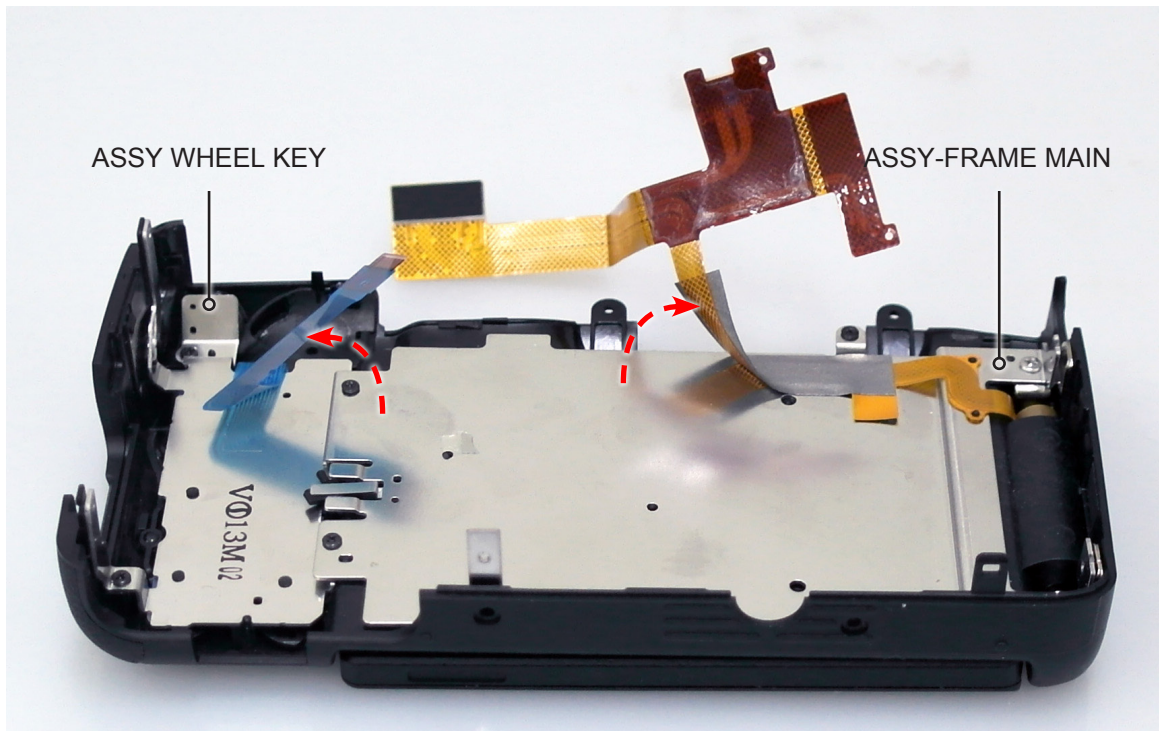


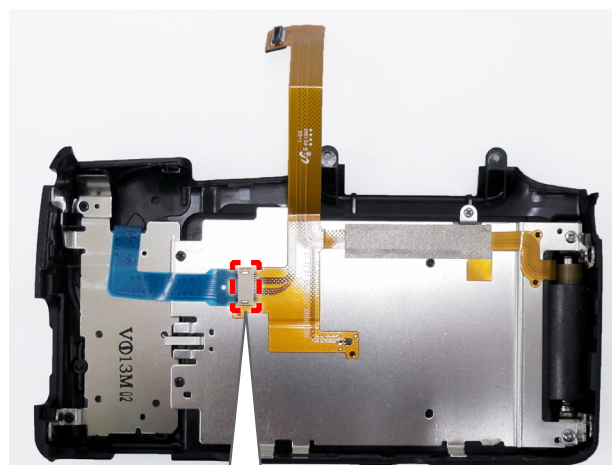
Fig. 3-90

35. Install the FPCB as illustrated in Fig. L.



**CAUTION**

Use extra care when connecting the FPCB to the connector.

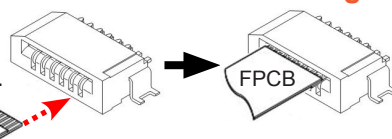


Install the FPCB.

**Fig. L**

1. Connect.

FPCB



2. It is installed.

Fig. 3-91

36. Install the **FPCB** as illustrated in **Fig. M**.



**CAUTION**  
Use extra care when connecting the FPCB to the connector.

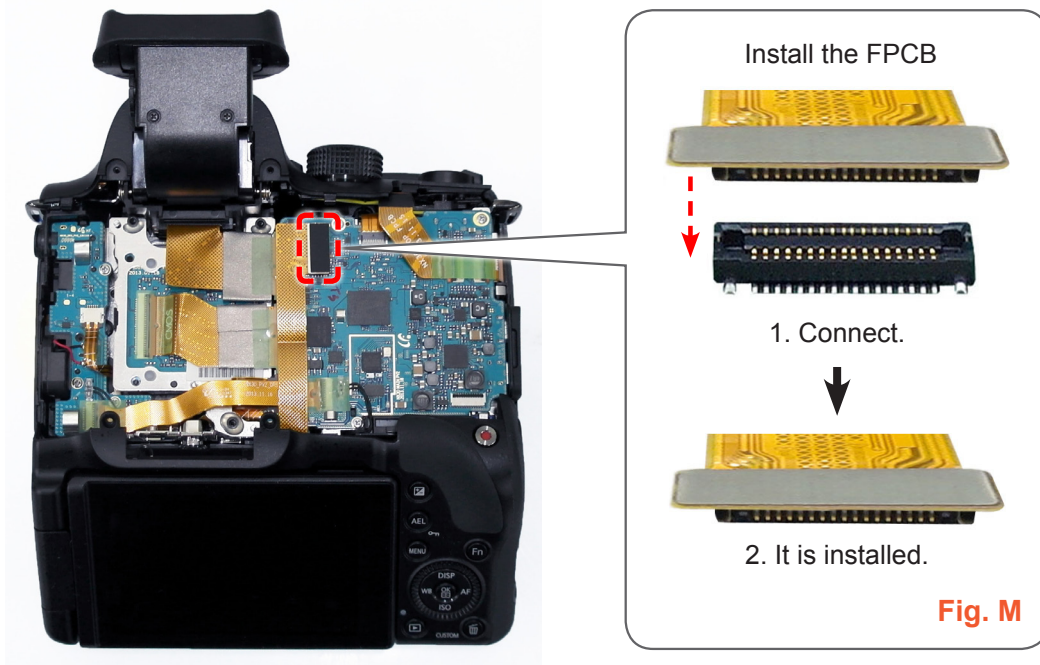


Fig. 3-92

37. Install the **ASSY COVER BACK**.

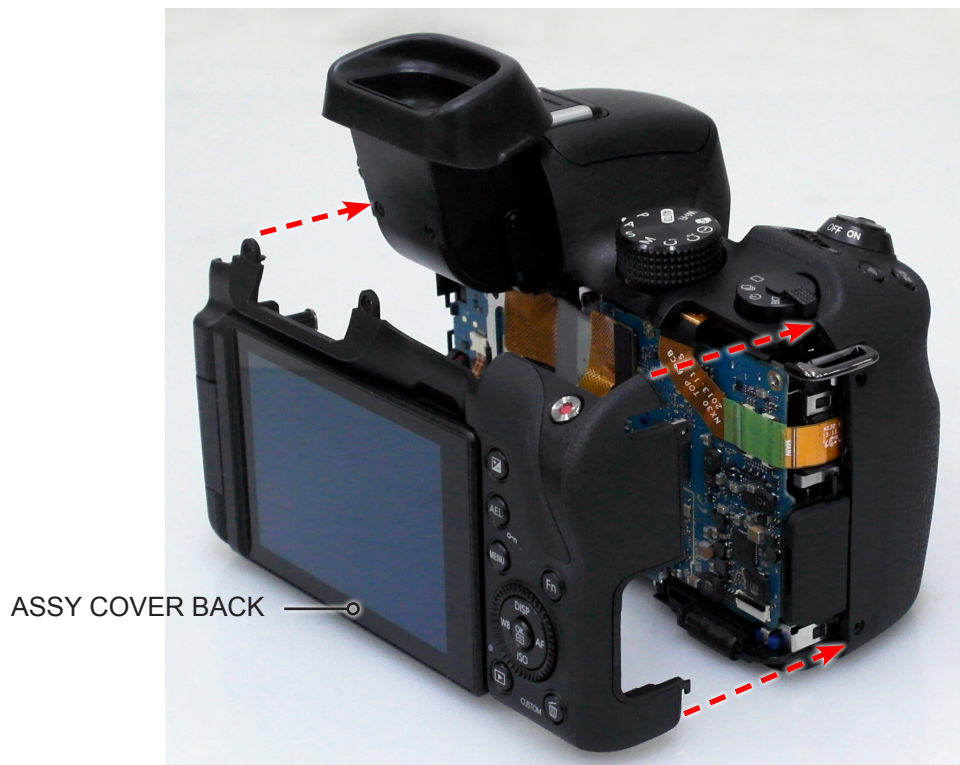


Fig. 3-93



38. Tighten the 2 screws.

SCREW TAP (M1.4XL4/BLACK)  
6003-001743



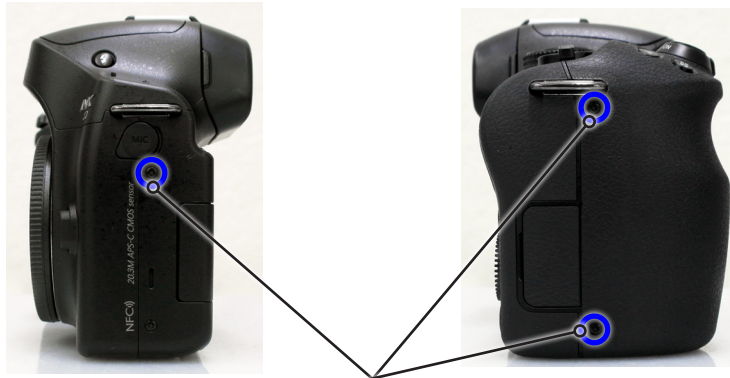
Fig. 3-94

39. Close the **ASSY EVF TILT** in the direction of the arrow.

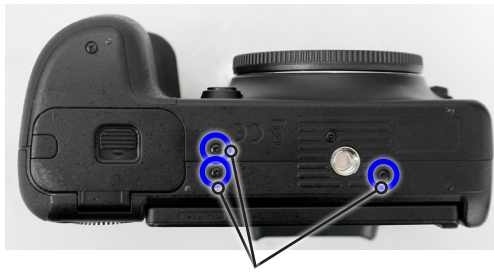


Fig. 3-95

40. Tighten the 1 screw on the left side, 2 screws on the right side and 3 screws on the bottom side.



SCREW MACHINE (M1.4XL4/BLACK)  
6001-002152

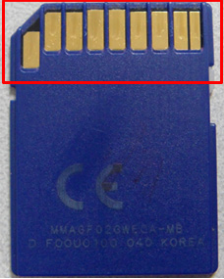
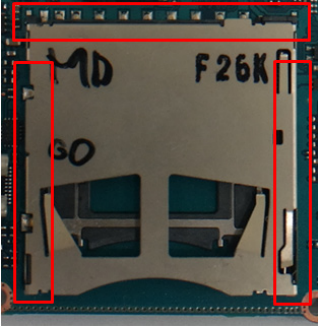


SCREW MACHINE (M1.4XL4/BLACK)  
6001-002152

Fig. 3-96

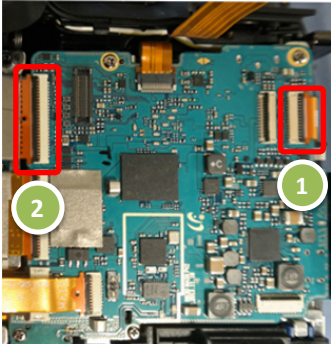
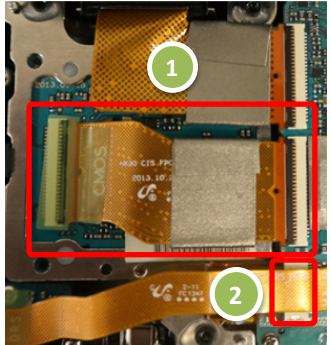
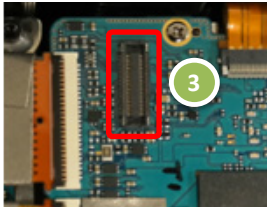
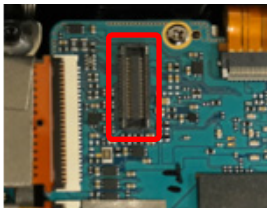
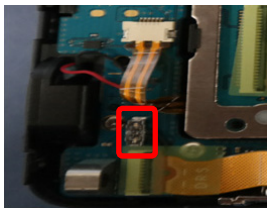
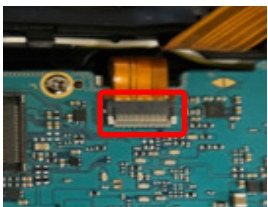
# 4. Troubleshooting

## 4-1 Regarding to memory card recognition

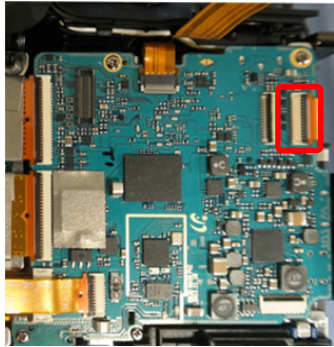
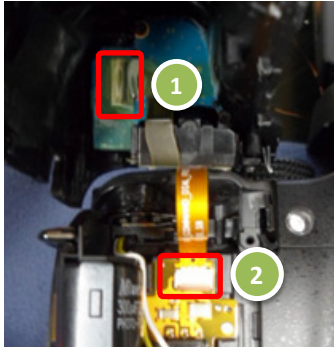
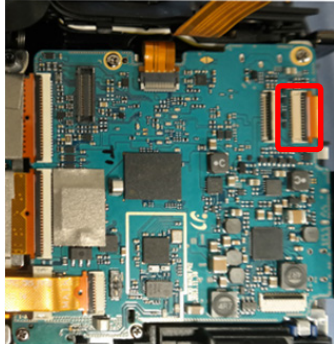
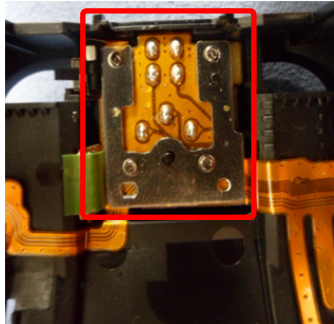
| Symptom                                      | Explanation/Solution   | Note   |
|--|--|--|
| <p><b>Memory card is not recognized.</b></p> | <p>1) Check the PAD of SD card for damage or dirt. Place the memory card on a table in front of you with the metal contacts facing up. Scrub the contact area with your brush, wiping away any corrosion, dirt or grime on the contacts. Recheck if the SD card is being recognized.</p> |   |
|  | <p>2) Check the mechanical failure of SD card socket of Main PCB. Check the SMD and other surrounding components.</p>  |  |



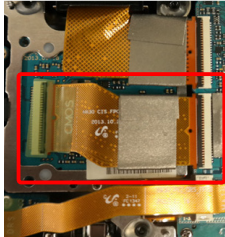
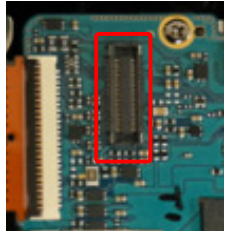
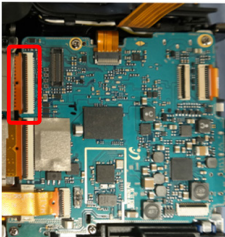
## 4-2 Regarding to MAIN PCB connection

| Symptom   | Explanation/Solution   | Note  |
|---|--|---|
| 1. Power does not work.   | 1) Check the connection between MAIN PCB and TOP PCB.  |  <p>A photograph of the main PCB with two red boxes highlighting connection points. A green circle with the number '2' is on the left, and a green circle with the number '1' is on the right.</p> |
|   | 2) Check the connection of HINGE FPCB. (It may be LED problem. Double check if LED is not blinking.) |   |
| 2. LCD displays black.  | 1) Check the connection of CIS FPCB.   |  <p>A photograph showing the CIS FPCB (labeled '1') and SHUTTER FPCB (labeled '2') connections on the main PCB, both highlighted with red boxes.</p>  |
|   | 2) Check the connection of SHUTTER FPCB.   |   |
|   | 3) Check the connection of HINGE FPCB.   |  <p>A close-up photograph of the HINGE FPCB connection on the main PCB, highlighted with a red box and labeled '3' in a green circle.</p>  |
| 3. KEY button on the rear side does not work. (MENU, Fn, recording, playback, delete, 4-way direction button)               | Check the connection of HINGE FPCB.  |  <p>A close-up photograph of the HINGE FPCB connection on the main PCB, highlighted with a red box.</p>  |
| 4. LENS is not being recognized. (It displays saying "Les is not attached.")  | Check the connection of WIRE HARNESS on DRS PCB.   |  <p>A photograph showing the wire harness connection on the DRS PCB, highlighted with a red box.</p>   |
| 5. It does not display "F#" correctly on the bottom of LCD screen. (Instead it displays "F--" on the bottom of LCD screen.) | Check the connection of LENS FPCB - on MAIN PCB.   |  <p>A close-up photograph of the LENS FPCB connection on the main PCB, highlighted with a red box.</p>   |

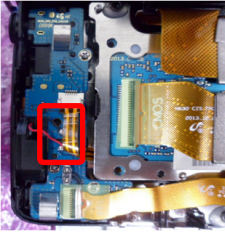
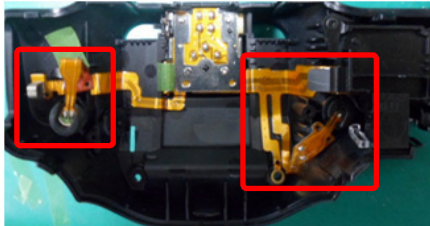
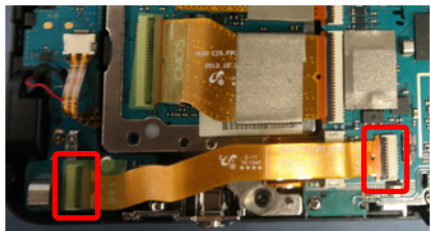
## 4-3 Regarding to TOP

| Symptom  | Explanation/Solution   | Note  |
|--|--|---|
| <p><b>1. Power and Command Dial do not work.</b></p> | <p>1) Check the connection between MAIN PCB and TOP PCB.</p>   |    |
|  | <p>2) Check the connection FPCB on POWER KEY PCB.<br/>                     ① Bottom contact<br/>                     ② Top contact</p> |   |
| <p><b>2. External Flash do not work.</b></p>         | <p>1) Check the connection between MAIN PCB and TOP PCB.</p>   |  |
|  | <p>2) Check the soldering of HOTSHOE on TOP.</p>   |  |

## 4-4 Regarding to image display

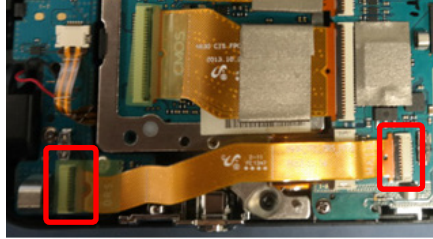
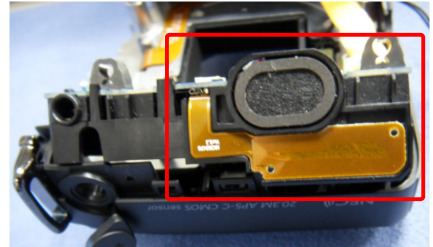

| Symptom  | Explanation/Solution                   | Note   |
|--|--|--|
| 1. It is displayed vertical and horizontal line noise and blurry images. | 1) Check the connection of CIS FPCB.   |   |
|  | 2) Check the connection of HINGE FPCB. |   |
| 2. the MAIN LCD screen turn on. but the EVF screen won't turn on.        | Check the connection of EVF FPCB       |  |

## 4-5 Regarding to voice playback and recording

| Symptom   | Explanation/Solution  | Note  |
|---|---|---|
| 1. Can not hear anything.   | Check the soldering of speaker wire.<br>- Whether it is connected negative or positive properly.<br>- Whether the wire is down or wire soldering comes off. |  |
| 2. There is sound when pressing button. However, voice recording does not work. | Check the soldering of internal MIC.<br>- Whether it is connected negative or positive properly.<br>- Where FPCB is torn.                                   |  |
| 3. External MIC do not work.  | Check the connection of DRS FPCB  |  |



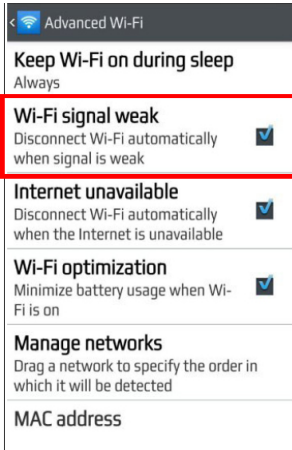
## 4-6 Regarding to NFC / WiFi do not work.

| 현상                  | 원인 및 해결 방법  | 참고   |
|---------------------|---|--|
| 1. NFC do not work. | 1) Check the connection of DRS FPCB.                              |   |
|                     | 2) After the disband a DRS ASSY. Check the connection of NFC ANT. |   |
| 2. WiFi not work.   | Check the connection of WiFi ANT                                  |  |

## 4-7 Regarding to WiFi connection

|                  |  |
|------------------|--|
| <b>Situation</b> | While using the Mobile Link, Remote Viewfinder, etc. functions, Smartphones and WiFi connectivity is terminated.   |
| <b>Cause</b>     | Upon receiving a strong signal WiFi from around, turns off the WiFi connection automatically from WiFi manager and automatically connect to WiFi of strong signal. |
| <b>Measure</b>   | Disable the option from advanced settings on smartphone as shown in the figure below.  |

Reference



Advanced Wi-Fi

Keep Wi-Fi on during sleep  
Always

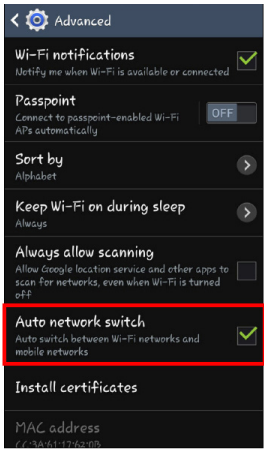
**Wi-Fi signal weak**  
Disconnect Wi-Fi automatically when signal is weak

Internet unavailable  
Disconnect Wi-Fi automatically when the Internet is unavailable

Wi-Fi optimization  
Minimize battery usage when Wi-Fi is on

Manage networks  
Drag a network to specify the order in which it will be detected

MAC address



Advanced

Wi-Fi notifications  
Notify me when Wi-Fi is available or connected

Passpoint  
Connect to passpoint-enabled Wi-Fi APs automatically

Sort by  
Alphabet

Keep Wi-Fi on during sleep  
Always

Always allow scanning  
Allow Google location service and other apps to scan for networks, even when Wi-Fi is turned off

**Auto network switch**  
Auto switch between Wi-Fi networks and mobile networks

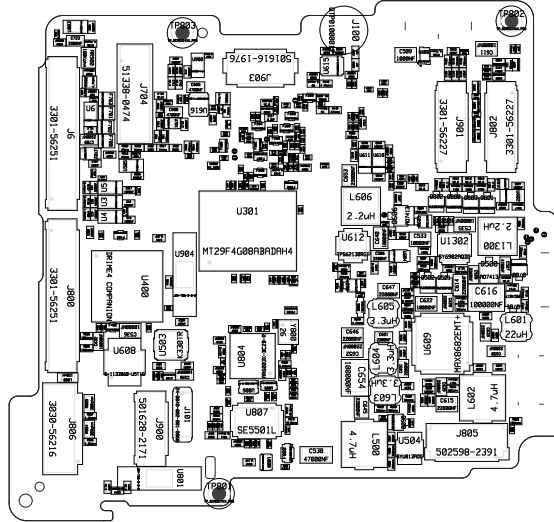
Install certificates

MAC address  
E2-30-11-12-00-00

# 5. PCB diagram

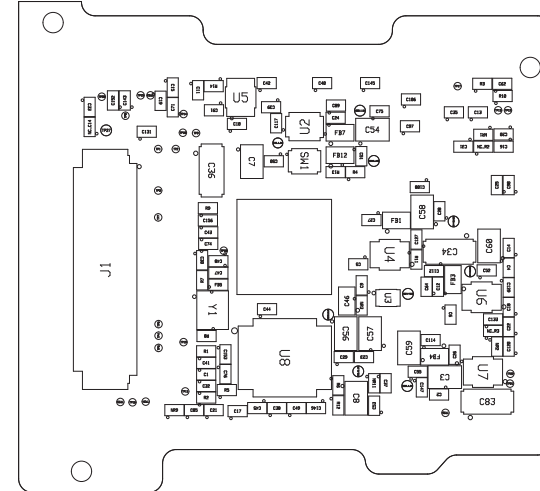
## 5-1 MAIN PCB

TOP

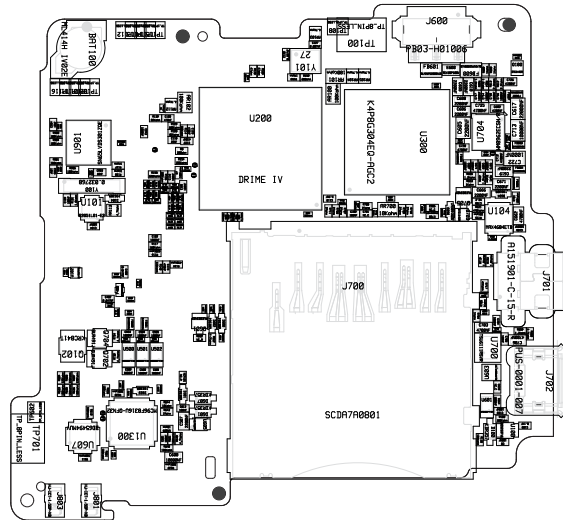


## 5-2 CIS PCB

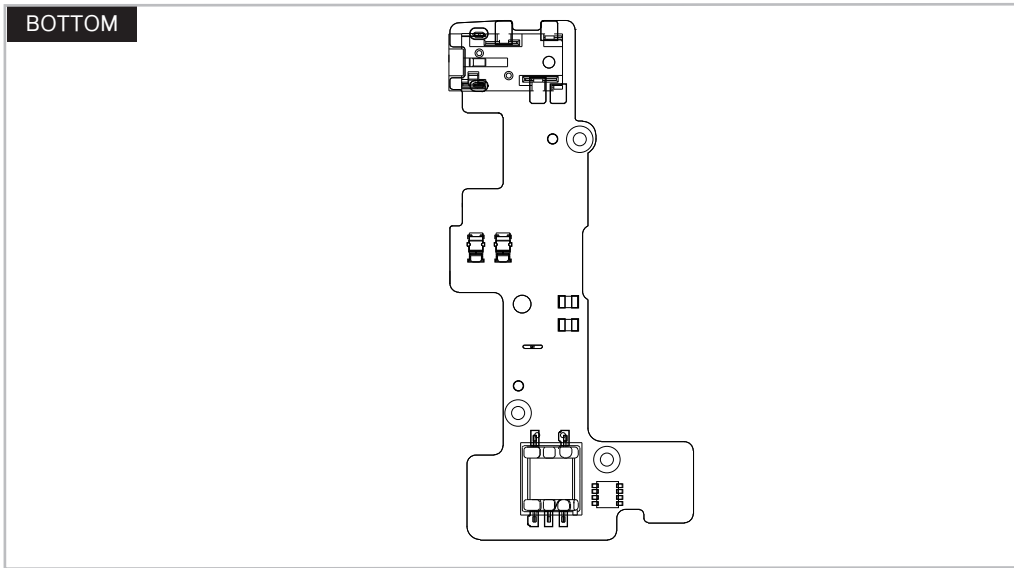
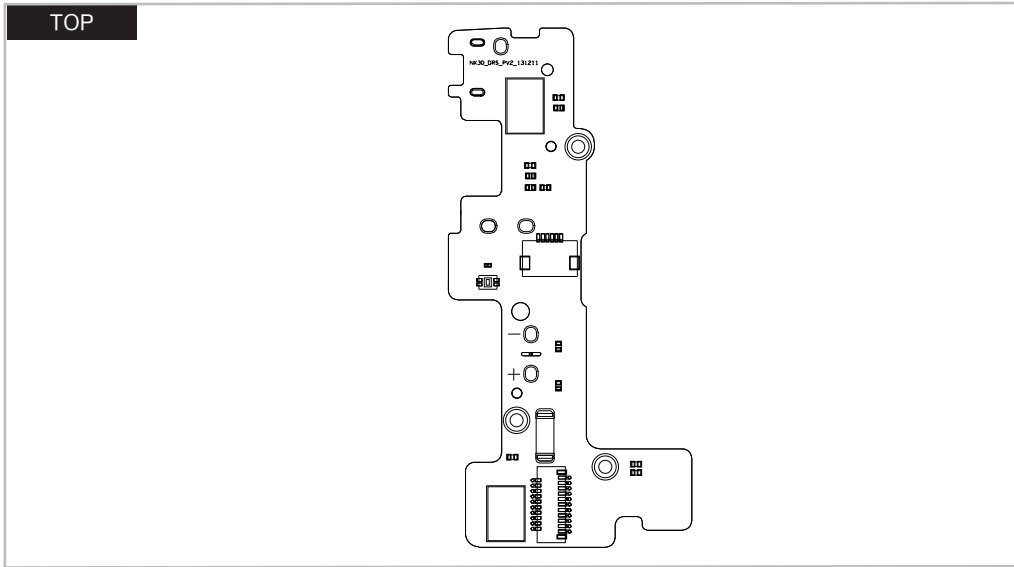
TOP



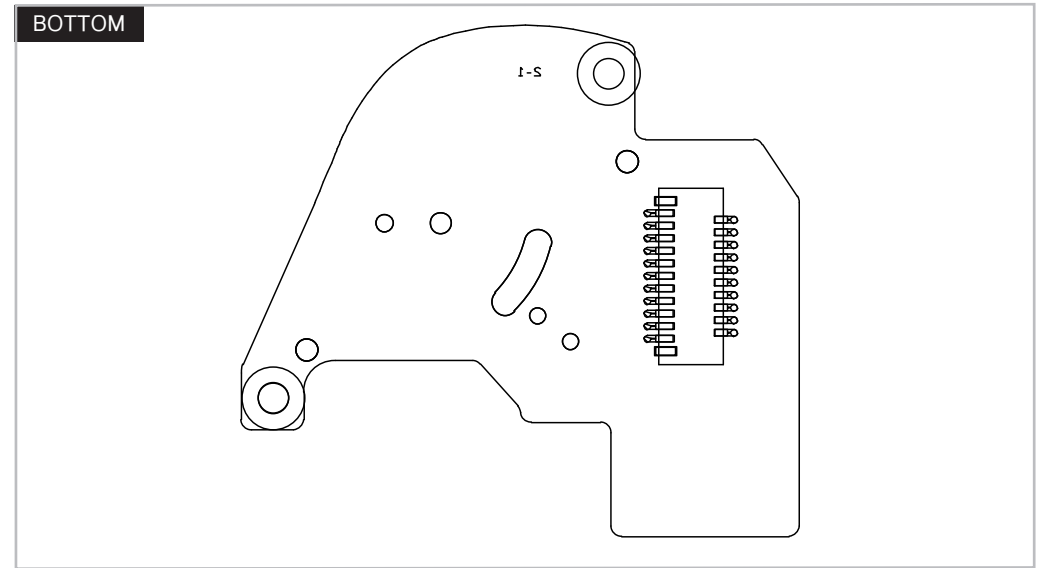
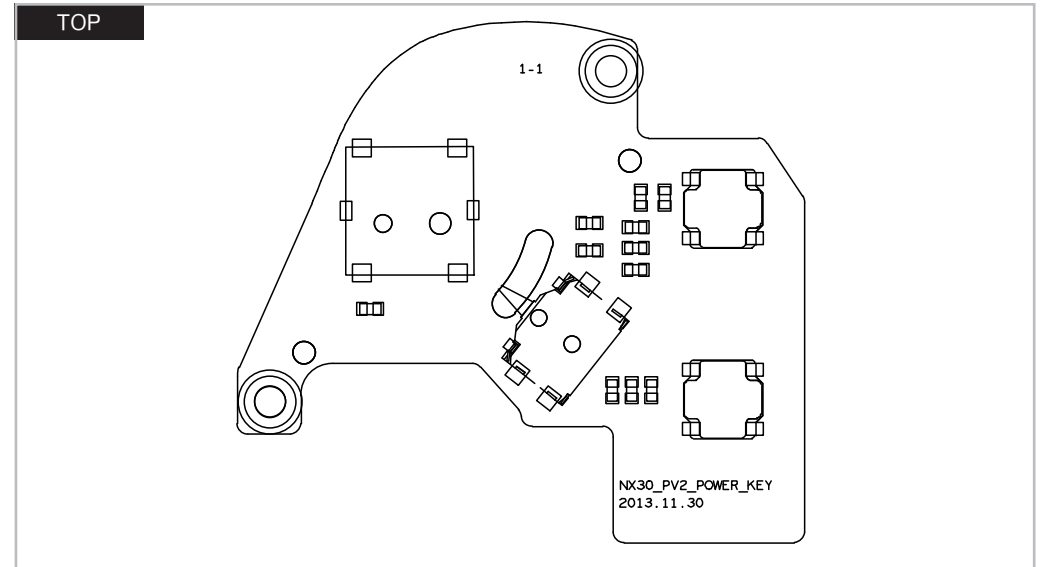
BOTTOM



### 5-3 SPEAKER PCB



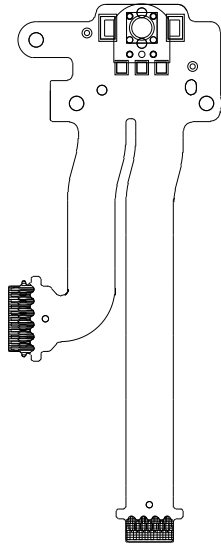
### 5-4 POWER\_KEY PCB





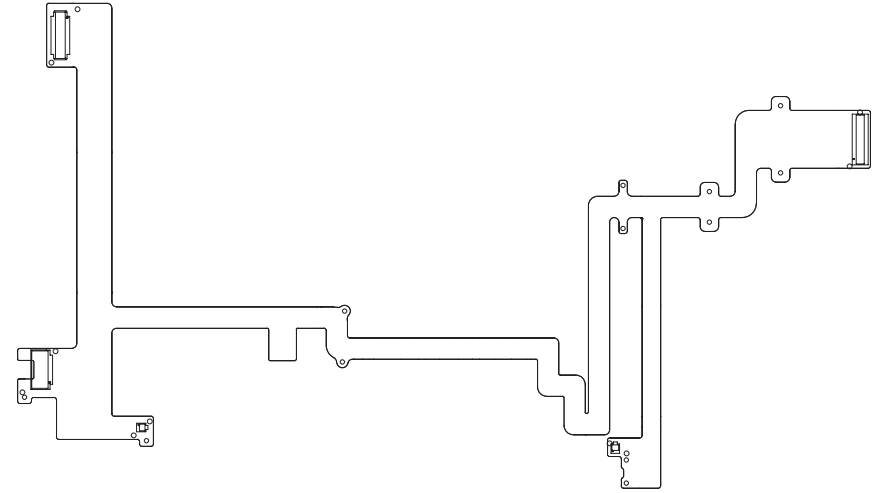
### 5-5 DIAL PCB

TOP



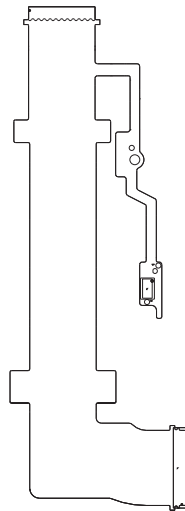
### 5-7 HINGE PCB

TOP



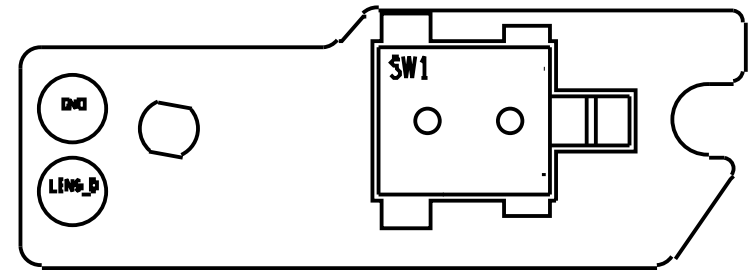
### 5-6 EVF FPCB

TOP



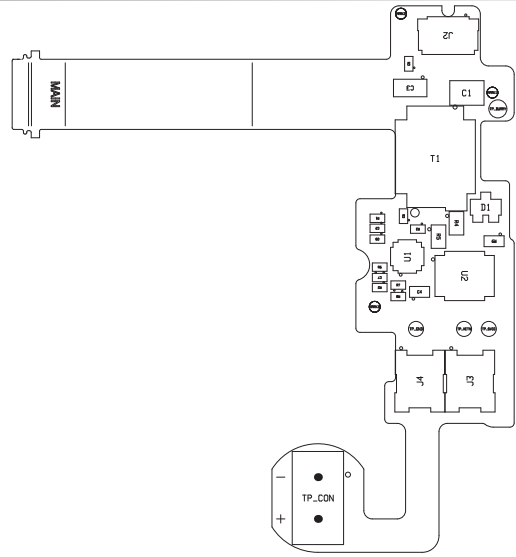
### 5-8 LENS PCB

TOP



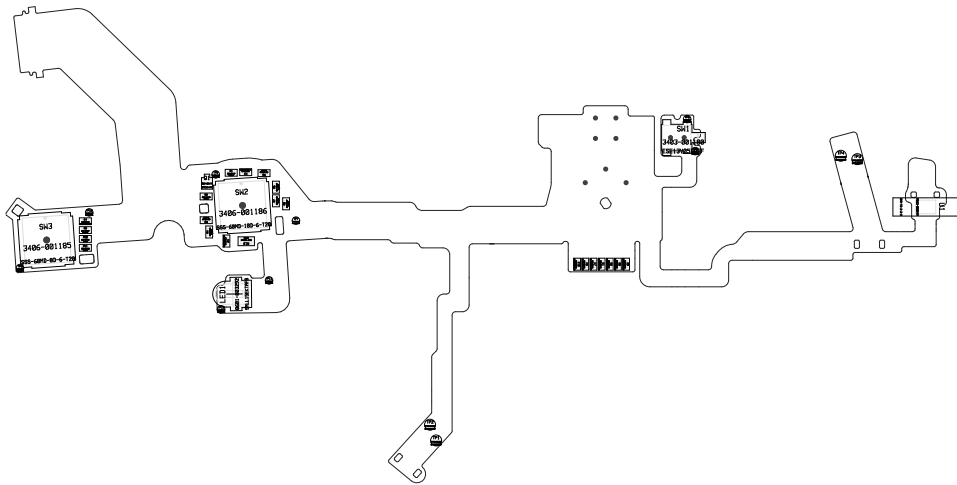
## 5-9 STROBO PCB

TOP

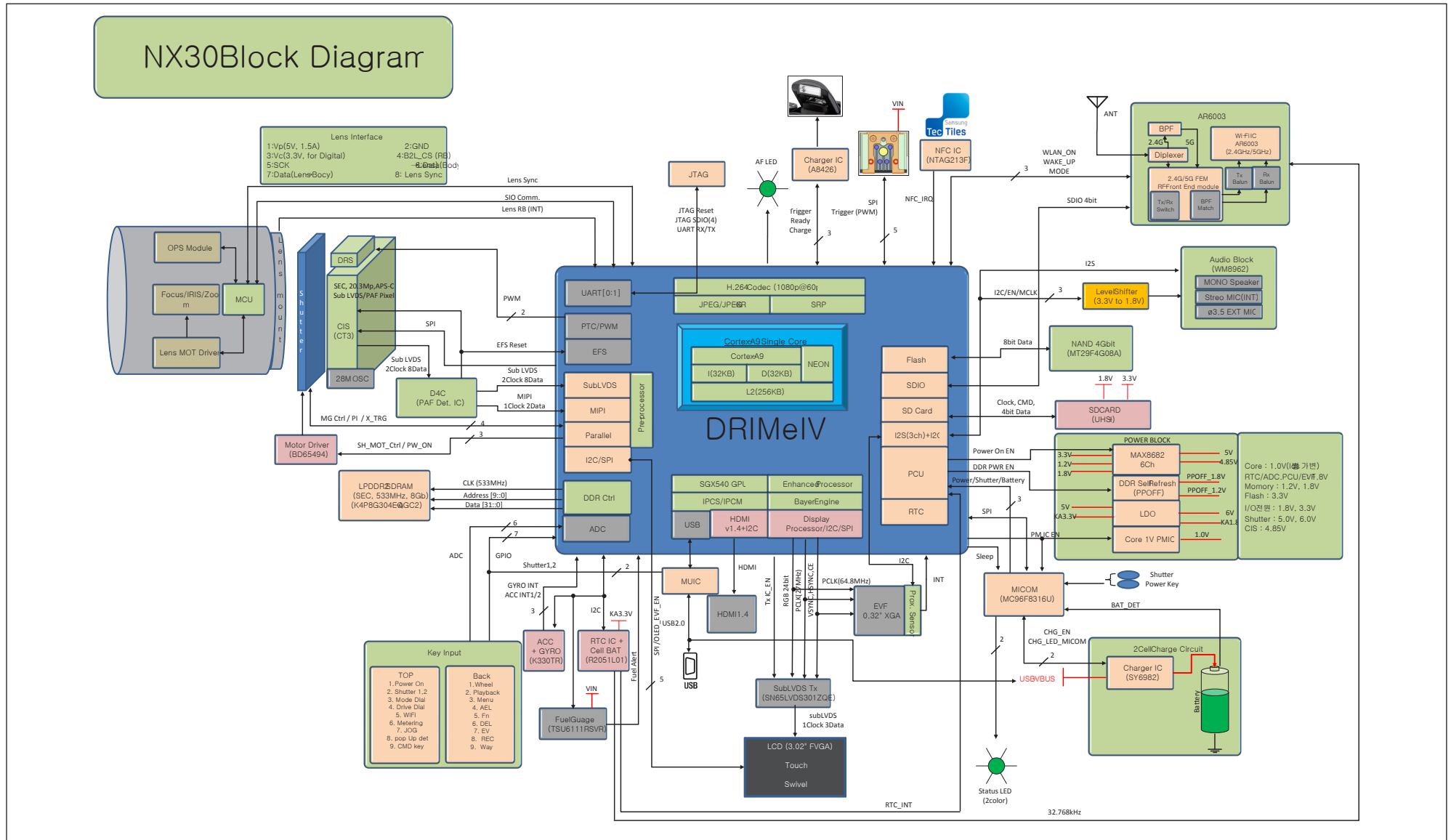


## 5-10 TOP PCB

TOP



# 6. Block diagram





## 7. Firmware update

### 7-1 Factory data reset



- This section describes how to reset the factory data.

1. Copy files such as nx\_cs.adj & nx\_dev.adj into the root directory of the SD Card. Insert the SD Card into the camera.



Fig. 7-1

2. Power on the camera.
3. Select the Smart Auto Mode.



Fig. 7-2

4. Press the following buttons as shown below.

- (1) Down -> (2) OK -> (3) Up -> (4) OK -> (5) Right -> (6) Press and hold the EV button and then press OK button.



Fig. 7-3

5. After selecting the SYSTEM PARAMETER, press the OK button.



Fig. 7-4

6. Press the OK button to select the FACTORY RESET.



Fig. 7-5

7. Power off the camera.

8. Power on the camera and check the initialization setting to insure that it is successfully initialized.



## 7-2 Firmware update by using user menu

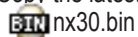


▪ This section describes how to update the latest version of firmware for camera body.

### CAUTION

- **Make sure the battery is fully charged. Or use the AC adaptor.**
- **Since all the files stored in the internal memory will be deleted, ensure that important files are copied to other storage device.**

1. Copy the latest firmware file such as nx30.bin into the root directory of the SD Card. Insert the SD Card into the camera.



2. Power on the camera.

3. Press Menu -> Go to Settings -> Select Device Information -> Select Firmware Update.

4. Select the Body Firmware.



Fig. 7-6

5. Select Yes to begin the firmware update.



Fig. 7-7

**CAUTION**

- Firmware update will take about 5 minutes. It will reboot twice during the firmware update process. Screen seems to be turned off. During the update process please ensure that the camera is not turned off or operated. Once the update is complete, a confirmation screen will be displayed.



Fig. 7-8

## 7-3 Firmware update by using CS menu



■ This section describes how to update the latest version of firmware for camera body.

### CAUTION

- Make sure the battery is fully charged. Or use the AC adaptor.
- Since all the files stored in the internal memory will be deleted, ensure that important files are copied to other storage device.

1. Copy the nx\_dev.adj file into the root directory of the SD Card. Insert the SD Card into the camera.

2. Power on the camera.

3. Select the Smart Auto Mode.



Fig. 7-9



4. Press the following buttons as shown below.

- (1) Down -> (2) OK -> (3) Up -> (4) OK -> (5) Right -> (6) Press and hold the EV button and then press OK button.



Fig. 7-10

5. Select FW UPDATE-> Select BODY FW UPDATE.



Fig. 7-11

6. Press the OK button to begin the body firmware update. Once it is complete, camera will turn off automatically.

**CAUTION**

- Firmware update will take about 5 minutes. It will reboot twice during the firmware update process. Screen seems to be turned off. However, do not turn off the camera or operate camera. Once the update is complete, it will display update complete message on the screen.



Fig. 7-12

## 7-4 How to recover the MAIN PCB



- This section describes how to recover the MAIN PCB when camera stops functioning due to power failure or some other reasons during the firmware process.

### **CAUTION**

**It is not necessary to go over all the adjustment process again since the existing adjustment data is not deleted.**

#### You will need:

1. SD card less than 1GB  
(It is recommended to use a SD card with less than 1GB. Occasionally a device may not read a SD card. Attempt to use different types of SD cards.)
2. Tweezer (It is used to short out the TP on MAIN PCB.)
3. The latest firmware files such as NX30.bin  
You can download the latest firmware file from the K-zone or Samsung website.
4. Five recovery files such as dnloader.bin  
**Note that the name of the firmware file may vary depending on NX model.**

#### MAIN PCB recovery instruction:

1. Remove the screws and remove the back cover.
2. Download the latest firmware file and one recovery files and copy them to the SD card.
3. Connect the connector of back cover to MAIN PCB.  
Insert the fully charged battery and SD card into the camera.
4. Short out opener pad, which is boot terminal point of TP with tweezers as indicated in red circle. It has been up.  
Then press the power button to turn on the camera.
5. LED will turn on when power is on. Then remove the tweezers.
6. LED will blink when tweezers are removed.  
Then MAIN PCB recovery process will proceed. It will take about 2 to 3 minutes.
7. LED will turn off when the recovery process is complete.
8. Turn on the camera. You may resume using the camera.

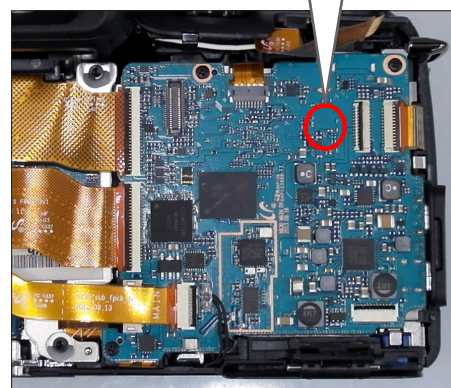
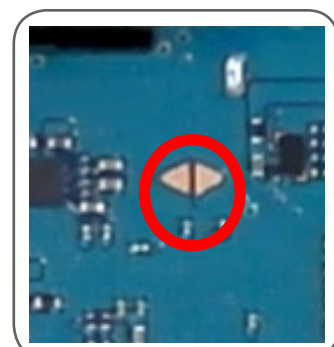


Fig. 7-13



# 8. Adjustment

## 8-1 Adjustment items



■ The necessary items are fixed according to replacing parts.

|  | Main PCB | DRS-SPK PCB | CMOS | Shutter | Front cover<br>Or Mount | Equipment                          |
|--|----------|-------------|------|---------|-------------------------|------------------------------------|
| FW Upgrade                               | 0        | -           | -    | -       | -                       |                                    |
| CIS Tilt adj.                            | -        | -           | 0    | 0       | 0                       | CSC CENTER                         |
| CIS Dot Data                             | 0        | -           | 0    | -       | -                       | Shutter<br>adjustment pro-<br>gram |
| Shutter adj.                             | 0        | -           | -    | 0       | -                       | Shutter adj. script                |
| ISO adj.                                 | 0        | -           | 0    | 0       | -                       | Light Box 3200K<br>Master Lens     |
| AWB adj.                                 | 0        | -           | 0    | -       | -                       |                                    |
| VFPN                                     | 0        | -           | 0    | -       | -                       | Mount Cap                          |
| Color Shading                            | 0        | -           | 0    | 0       | -                       | Light Box 5500K<br>30mm Lens       |
| EFS<br>(Electronic First Shutter)<br>ADJ | 0        | -           | 0    | 0       | -                       | Light Box 3200K,<br>LV16           |
| S/N, MAC addr                            | 0        | -           | -    | -       | -                       | PC program                         |
| PAF adj                                  | 0        | -           | 0    | 0       | 0                       | PAF regulator<br>PC program        |
| NFC Writing                              | 0        | 0           | -    | -       | -                       | NFC Writer                         |
| DATA IMAGE                               | 0        | -           | 0    | 0       | 0                       |                                    |

<Table 8-1>

### 2. Adjustment Equipment

- Light Source Box 1 : LV-1450DC (3200K±50, Lv12)
- Light Source Box 2 : LSB-1/10 (5500K±100, Lv. 12)
- PAF regulator
- NFC Writer

## 8-2 Test Mode

1. Copy files such as nx\_cs.adj & nx\_dev.adj into the root directory of the SD Card. Insert the SD Card into the camera.



Fig. 8-1

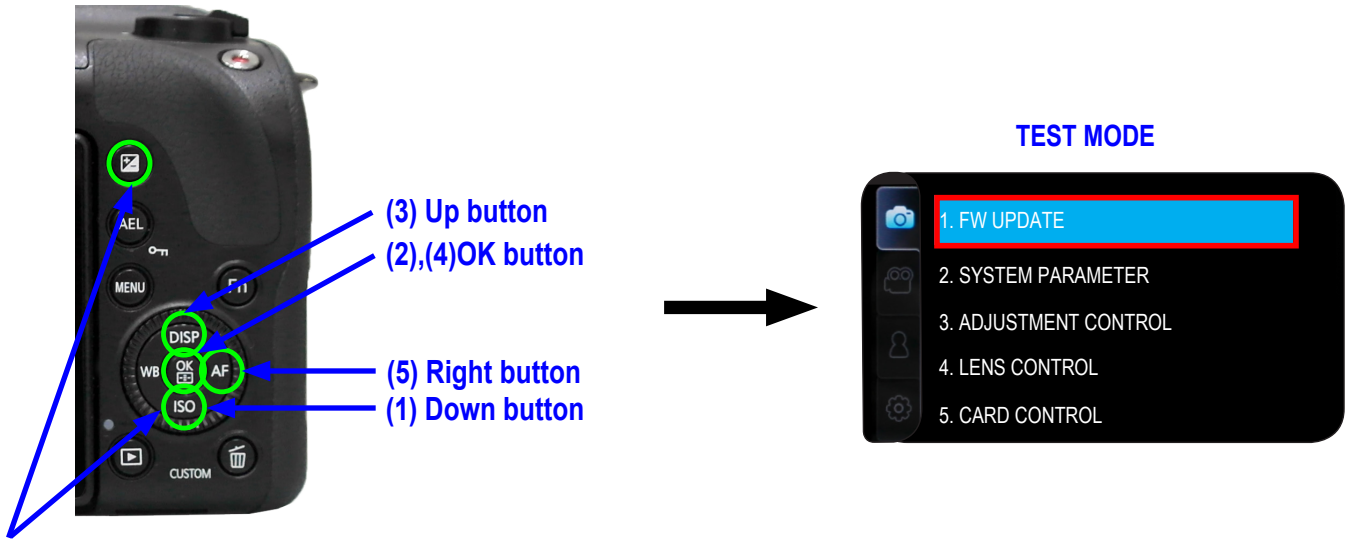
2. Power on the camera.
3. Select the Smart Auto Mode.



Fig. 8-2

1. Turn on the camera by turning the power switch to the right. Select the AUTO (Smart Auto) by turning the mode dial to the right. Press the following buttons to display the test mode as shown below.

- (1) Down button -> (2) OK button -> (3) Up button -> (4) OK button -> (5) Right button -> (6) Press and hold the EV button and then press OK button.



(6) Press and hold the EV button and then press OK button.

Fig. 8-3

2. The following table describes the menu function.

| Menu                         | Sub menu   | Description  |
|------------------------------|--|--|
| <b>1. FW UPDATE</b>          | (1) BODY FW UPDATE<br>(2) LENS FW UPDATE<br>(3) EXT. FLASH FW UPDATE<br>(4) DSP FW UPDATE<br>(5) RESET USERDATA  | Display and update the firmware.<br>This function is used for updating the firmware by using cs menu. .  |
| <b>2. SYSTEM PARAMETER</b>   | (1) FACTORY RESET<br>(2) POWER OFF TEMP.<br>(3) DISABLE CHINESE LANG<br>(4) DISABLE DISPLAY SEVE<br>(5) DISABLE POWER SEVE<br>(6) DISABLE MOVIE REC LIMIT<br>(7) NO LENS RELEASE ENABLE<br>(8) DISABLE INT ERR POWER OFF | Display and reset the factory data.  |
| <b>3. ADJUSTMENT CONTROL</b> | (1) AUTO START DISABLE<br>(2) PTP AUTOMATION ENABLE<br>(3) LINE PROCESS STEP<br>(4) LINE PROCESS MARK<br>(5) ADJUST DATA TO LOG FILE<br>(6) ADJUST RESULT  | (1) Prevent auto start when the adjustment file is inserted.<br>(2) Select the necessary adjustment process.<br>(3) Confirm that the previous process is complete.<br>(4) Log file with the adjustment data.<br>(5) Display the result of the adjustment.<br>(6) Confirm the result of adjustment. |
| <b>4. LENS CONTROL</b>       | (1) OIS ADJUSTMENT<br>(2) ZOOM WIDE SET<br>(3) ZOOM TELE SET<br>(4) MR SENSOR ADJUST<br>(5) LENS MOUNT INFO<br>(6) LENS COMM SEVE  | (1) Set the OIS adjustment value.<br><b>* Proceed the OIS Adjustment when replacing and installing the PCB inside lens.</b><br>(2) Set the wide value of zoom lens<br>(3) Set the telephoto(tele) value of zoom lens.<br><b>* Do not move the lens during the LENS CONTROL process.</b>            |

<Table 8-2>



## Adjustment

### 3. LENS CONTROL

#### (1) OIS ADJUSTMENT

- When you adjust the OIS function which have a OIS lens, you can adjust it.

##### - How to adjust

Attach the Lens and follow the below step.

From the TEST MODE, select LENS CONTROL → select OIS ADJUSTMENT → Press the OK button.

\* **Caution** : Do not move the camera during the adjustment process.

#### (2) ZOOM WIDE SET and ZOOM TELE SET

- When you adjust the position of zoom position, you can use it.

(It is required to adjust the process when replacing PCB inside lens or installing the Mount.)

##### - How to adjust

Attach the Lens and follow the below step.

From the TEST MODE, select LENS CONTROL → select ZOOM WIDE SET → set the zoom to the Wide. → Press the OK button.

(Repeat the above steps for ZOOM TELE SET.)

\* **Caution** : Do not move the camera during the adjustment process.

## 8-3 CIS TILT Adjustment



- Proceed CMOS Tilt adjustment after replacing CMOS ASSY.

### <How to Adjust>

1. Set the CIS Tilt adjustment tools. (Kyoritsu (RSM-5000))
2. Once you press the Start button, Tilt adjustment will complete automatically.
3. After adjustment completion, Apply glue on 3 screws to fix the screw position as illustrated in Fig. 8-2.

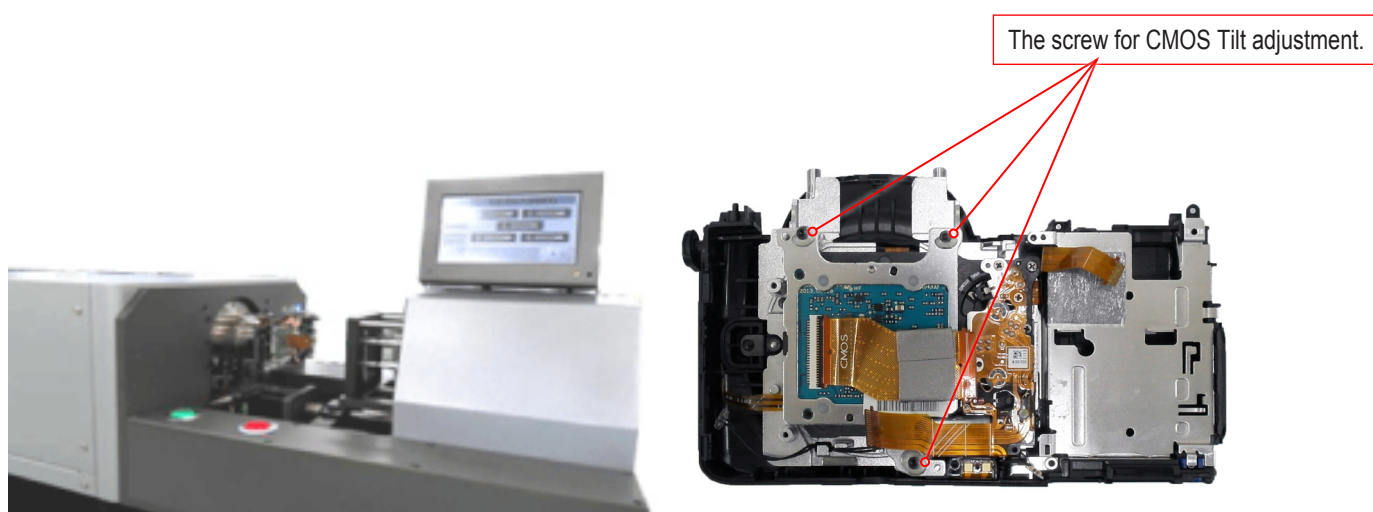


Fig. 8-4

### <Adjustment Result>

Adjust specification for Mount side and FLANGE BACK side : 25.55mm(-35mm/+15mm)

Adjust specification for CMOS sensor TILT side from center: -30um/+30um

\* **Caution** : The above three screws for NX10/5/11, NX100, NX200, NX300, NX300M may vary in model.

## 8-4 CIS DOT Data Input & SHUTTER Adjustment



- It has stored DOT data in the EEPROM after replacing the main PCB or CMOS.
- It is required to adjust the Shutter Speed for incorporating an EEPROM storing the default adjustment values after replacing Shutter ASSY or Main PCB.

### <How to Adjust>

1. Download the "NX30.ZIP" file to a directory on your PC and extract it.

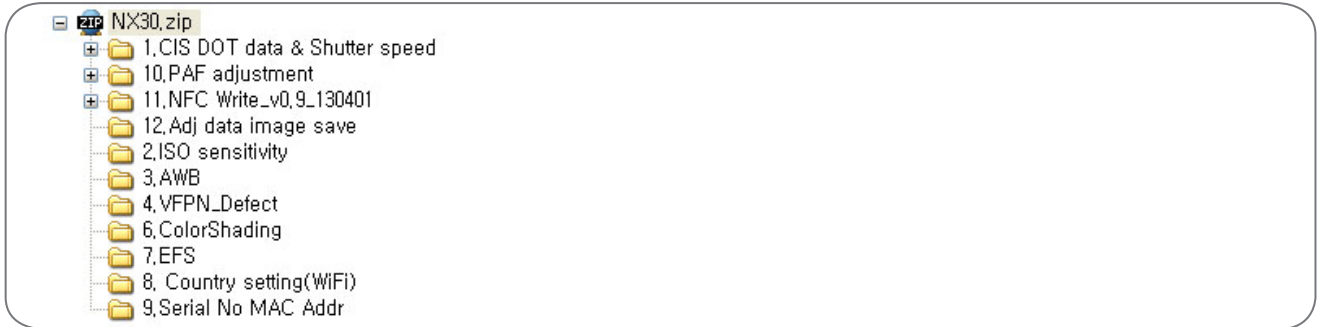


Fig. 8-5

1) Navigate to the directory you extracted to and double click the "vcredist\_x86.exe" in the CIS DOT data & Shutter speed .

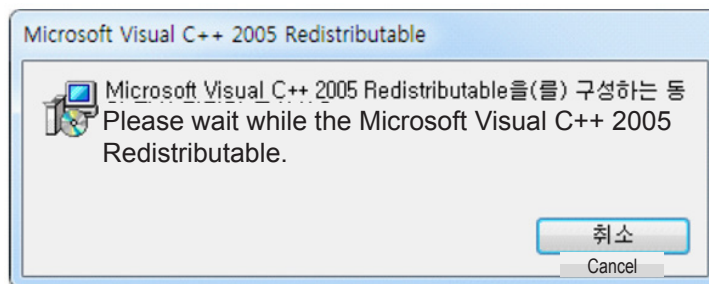


Fig. 8-6

2) Extract the "NXCISTEMP\_NX30.zip" file to the c:\ directory such as C:\NXCISTEMP\_NX30.  
Make sure to save "NXCISTEMP\_NX30.zip" file to the above directory.  
PC program will search the CIS dot data in the above specified directory.

2. Double click the "libusb-win32-filter-bin-1.1.14.3.exe" to execute.

(Please refer to on page 8-8 for installing module between the NX SET and PC communications (PTP). Follow the .)

3. Download the "NX30.ZIP" file to a directory on your PC and extract it.

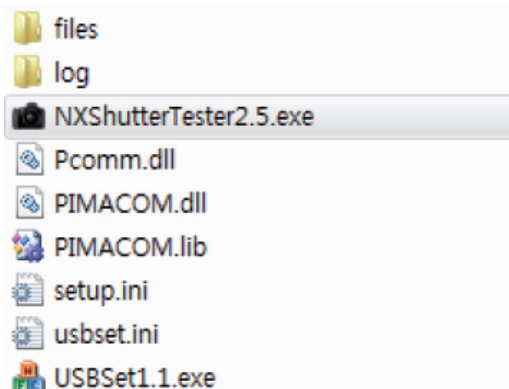


Fig. 8-7

## Adjustment

4. Double click the "USBSet1.1.exe" to execute.

- 1) Connect the USB cable from your camera to the USB port on your computer when below window appears.  
(Make sure the "info.tgw" file is into SD card. )

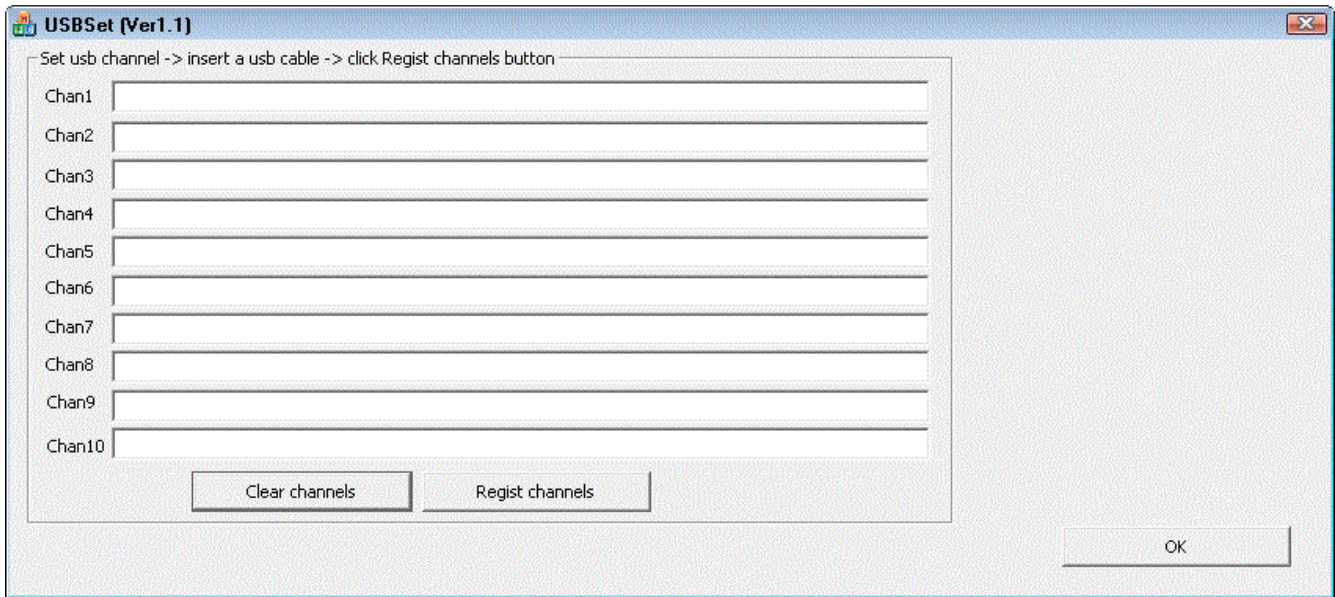


Fig. 8-8

- 2) When below window appears, turn on the computer and check the USB directory's path.  
Click the "Register channels" button and then click the "OK" button.

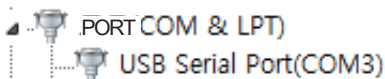


Fig. 8-9

- 3) Turn off the camera and then exit the USBSet1.1.exe.

5. Double click the "NXShutterTester.exe" to execute.

- 1) Connect the RFS-500 measuring equipment and your computer with USB cable. Turn on the RFS-500.  
Right click on "My Computer" and click the "Manage", and then click the "Device Manager".  
The Device Manager opens as shown in Figure below. Check the connection status of the "COM" to the "Device Manager".





- 2) Error message may appear when it fails to load a script file.  
Click the “OK” button.

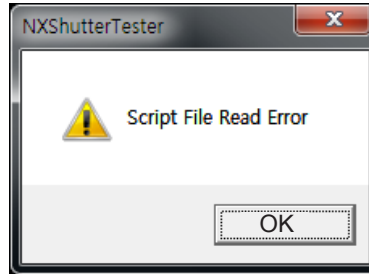


Fig. 8-10

- 3) It will attempt to download the “CIS DOT” file via FTP server.  
Press the “OK” button to continue.

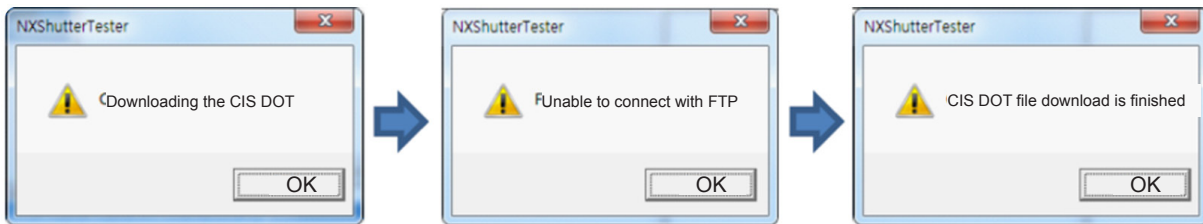


Fig. 8-11

- 4) When the “FPS” button is disabled, its button color is not blue. It indicates there is an error for in setting up the COM port.  
Follow these steps to reset up the COM port. Select the “Option” tab and click the “SETTING” and then click the “COMPORT”.  
Set the new value for COM as illustrated below.  
The “FPS” button becomes enabled, turning its button color is blue.

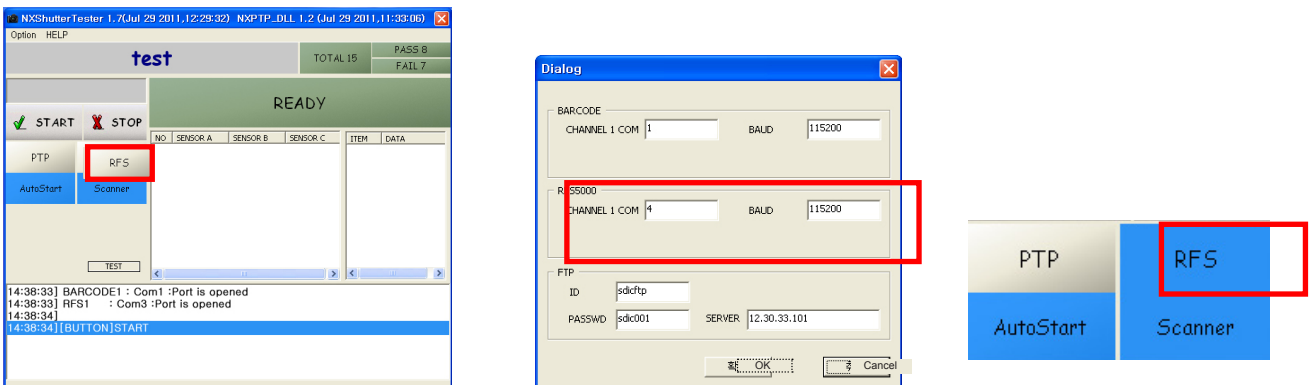


Fig. 8-12

- 5) Select the “Option” tab and click the “SCRIPT FILE OPEN”. Then click the “Open” to select the “shutter.txt”.  
(Location: NX30 SHUTTER 2.5 \ Script \ shutter.txt)

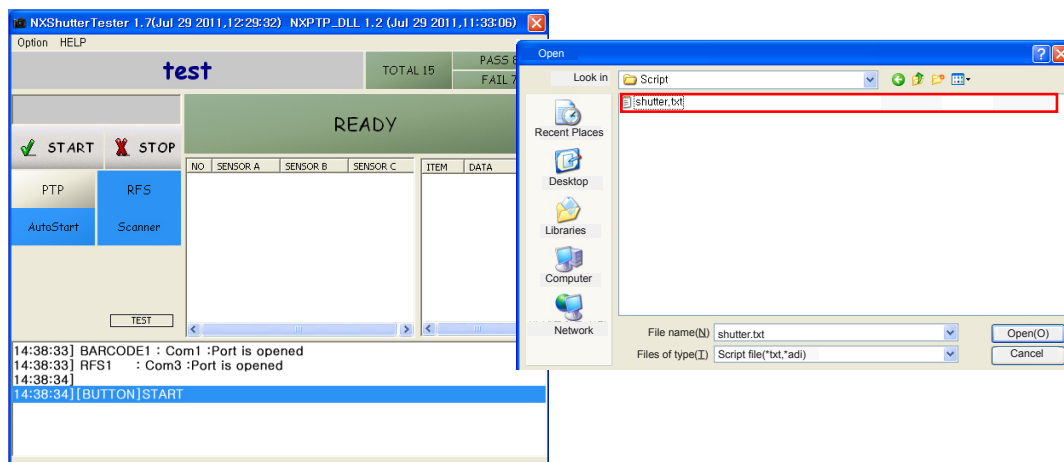
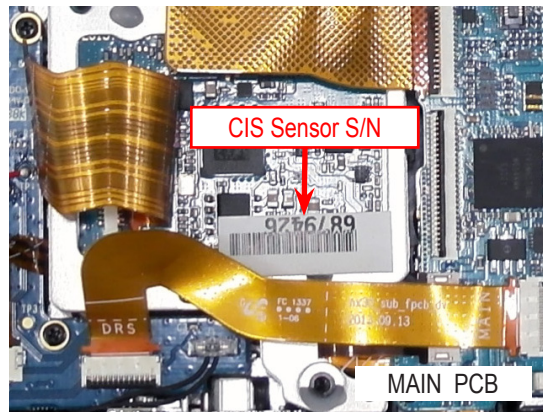
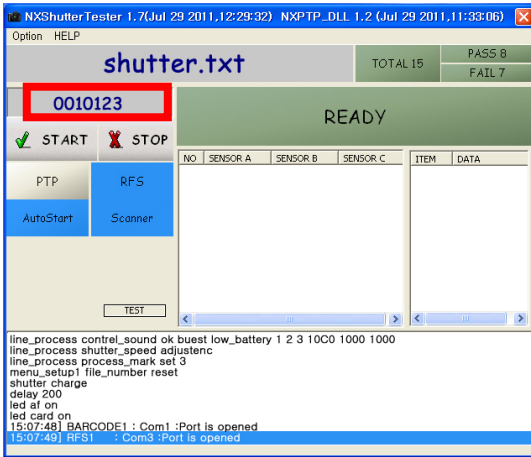


Fig. 8-13

Adjustment

- 6) Make sure there is the serial number file such as "0010123.sn" in the NXCISTEMP\_NX30 folder.
  - Type the serial number on the tap above the "STARAT" button.



- When there is no proper serial number file in the NXCISTEMP\_NX30 folder, the error message will appear.

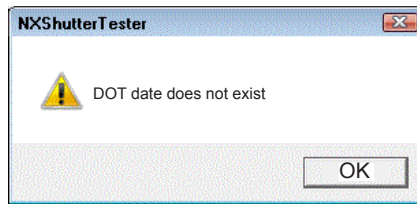


Fig. 8-14

- 7) It will automatically start the process when the "Auto Start" button color is blue, meaning the setting is activated. Press the "START" button when the "Auto Start" button color is gray, meaning the setting is inactivated. You may choose to activate (On)/inactivate (Off) this function by pressing "Auto Start" button.

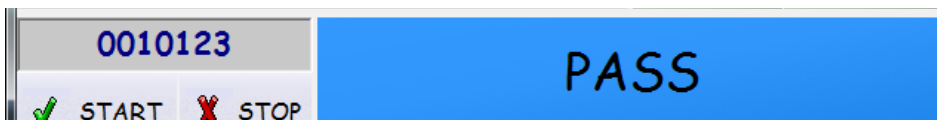


Fig. 8-15

- 8) Connect the USB cable from your camera to the USB port on your computer. Turn on the camera and press the "OK" button to begin the process.
  - During the PTP communication, the shutter speed value is set at a shutter speed of 1/2000 second and is to correspond with the measuring equipment.
  - The measuring equipment recognizes the shutter speed and PC read the shutter speed value. Finally the camera reads its value. (Measuring equipment -> PC -> Camera)
  - Camera picks the shutter speed at a shutter speed of 1/2000 second or less (0.488ms) and set it as an adjustment default value. The camera is shooting the shutter speed of 1/4000 second (0.269ms). The shutter speed value is set to correspond with the measuring equipment. The available shutter speed is set in the range between 1/2000 second (0.488ms) and 1/4000 second (0.269ms)..
  - Once the adjustment process is complete, the value is stored in the NOR-Flash memory. The "PASS" message will be displayed.

9) Test Result

- When the adjustment process is successful, the "PASS" message will be displayed.



- When the process is not successful, the "FAIL" message will be displayed.

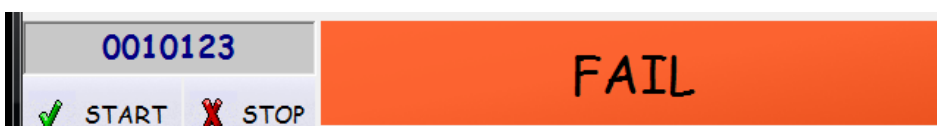


Fig. 8-16

- 10) Navigate to the directory you extracted to the NXCISTEMP\_NX200.zip" file such as C:\ CIS DOT\_SHUTTER SPEED\NX30\NX30 SHUTTER 2.5\files\Ch1. Check whether the CSV file is created at the destination directory or not.

### <How to run "libusb-win32-filter-bin-1.1.14.3.exe">

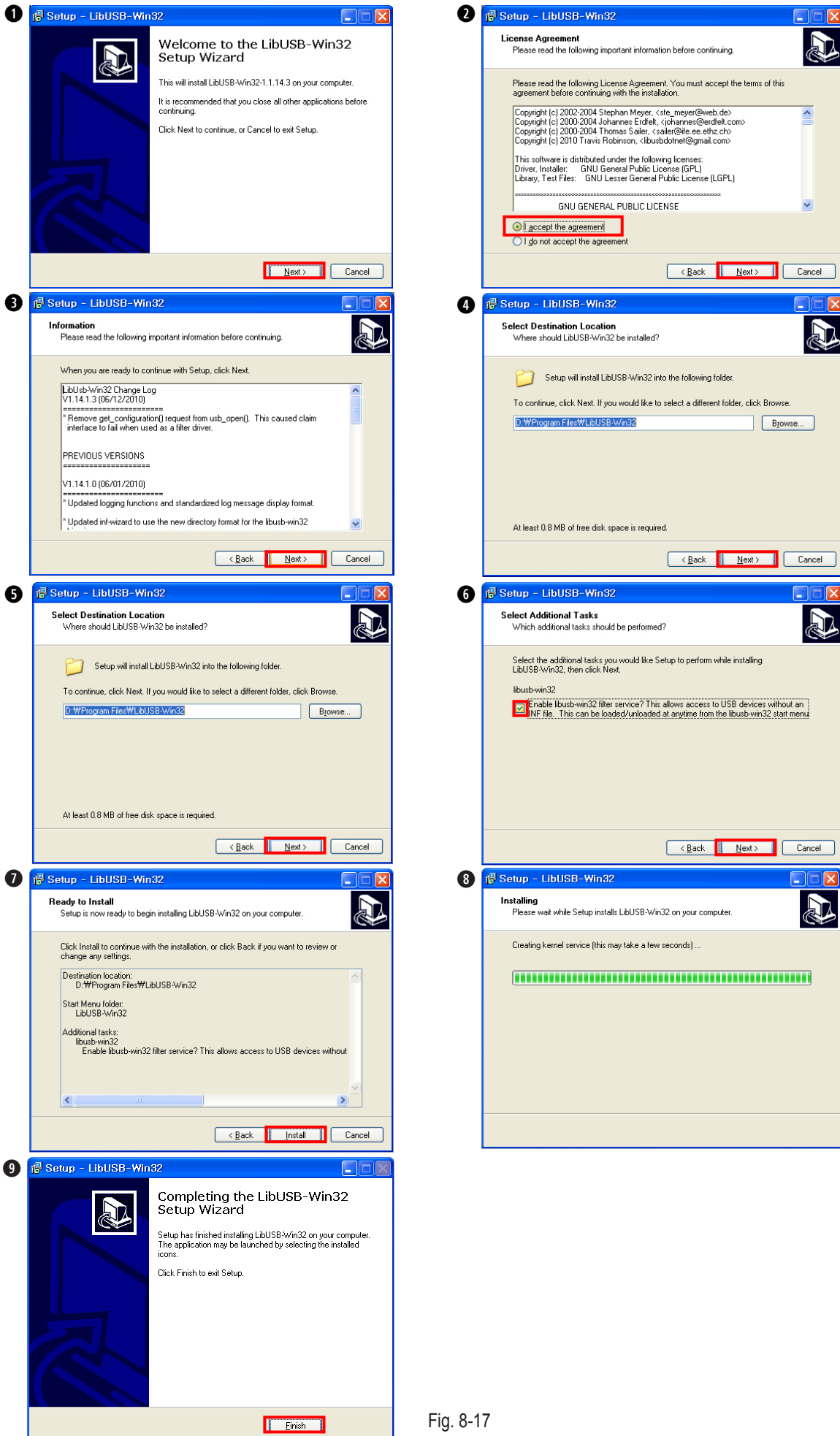


Fig. 8-17



## 8-5 ISO Adjustment



- This section describes how to proceed the adjustment relating to the image quality.


### Required equipmentof

LIGHT BOX (3200K, LV12), Master Lens(F#5.6)

### <How to adjust>

1. Copy the script file to SD card and insert the SD card into the camera.

 info.tg

 NX30\_iso.adj

2. Attach the camera with master lens to the 3200K Light Box as illustrated in the image below.

3. When turning on the camera, the process will proceed automatically

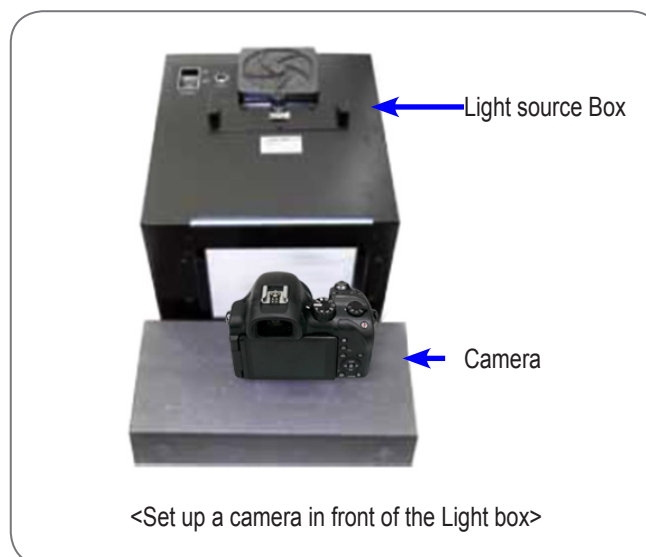


Fig. 8-18

## 8-6 AWB Adjustment



- This section describes how to proceed the adjustment relating to the image quality.

### Required equipmentof

LIGHT BOX (3200K, LV12), Master Lens(F#5.6)

### <How to adjust>

1. Copy the script file to SD card and insert the SD card into the camera.

 info.tg

 NX30awb.adj

2. Attach the camera with master lens to the 3200K Light Box as illustrated in the image below.

3. When turning on the camera, the process will proceed automatically.

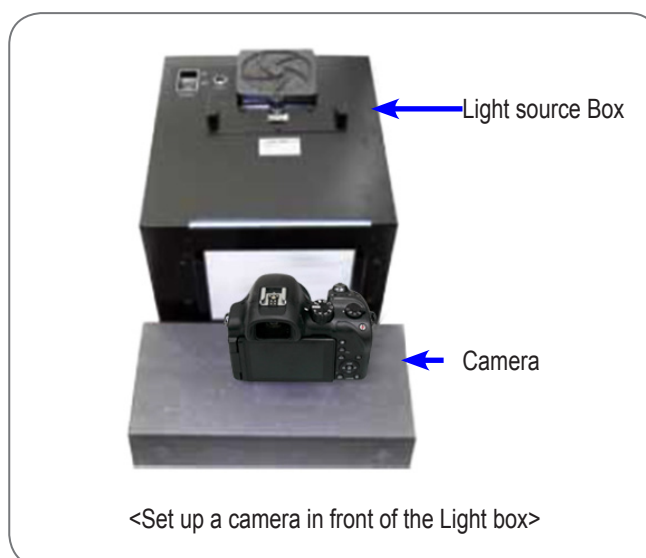


Fig. 8-19

## 8-7 VFPN & CMOS Defect Adjustment



- This section describes how to correct the vertical noise & defect pixel according to CIS Temperature.


### Required equipment

Mount Cap

<How to adjust>

1. Copy the below script file to SD card.

 info.tg

 NX30\_vfpn.adj

2. Install the mount cap to block the light.



Fig. 8-20

3. When turning on the camera, the process will proceed automatically.
  - Camera temperature should be more than **35** degree to proceed the VFPN adjustment.
  - Camera may heat up during the operation due to the camera being on for extended periods of time.  
(Tip. If you use hairdryer, you can heat it up faster.)

## 8-8 Color Shading Adjustment



- This section describes how to adjust the brightness gap between center and around.


### Required equipmentof

LIGHT BOX (5500K, LV12), 30mm Lens

<How to adjust>

1. Copy the script file to SD card and insert the SD card into the camera.

 info.tg

 NX30\_shading.adj

2. Attach the camera with master lens to the 5500K Light Box as illustrated in the image below.

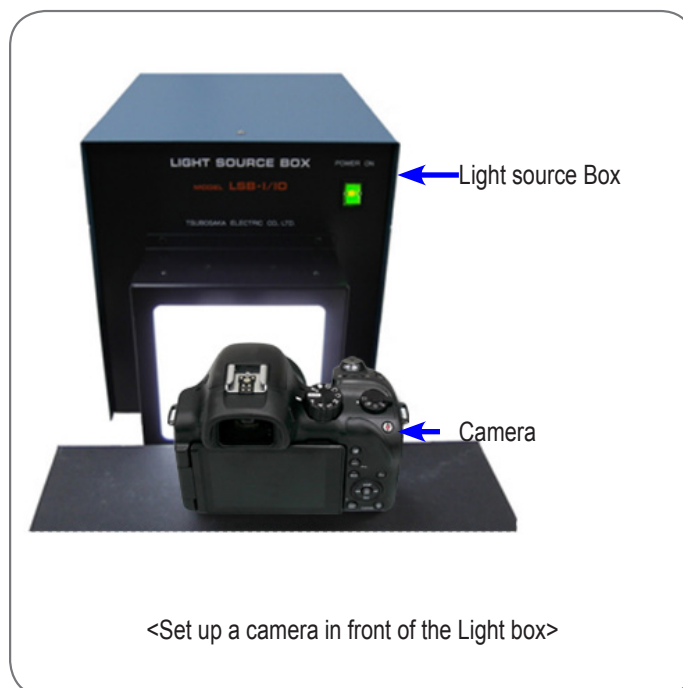


Fig. 8-21

3. When turning on the camera, the process will proceed automatically.



## 8-9 EFS (Electronic First Shutter) Adjustment



■ This section describes how to adjust Electronic First Shutter.

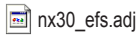
### Required equipment

LIGHT BOX (3300K for compact DSC, LV16.0 ±0.2)

1. Copy the script file to SD card.



info.tg



nx30\_efs.adj

2. Attach the Lens to the camera body and insert the SD card into the camera.

3. Attach the camera to the Light Box as illustrated in the image below. When turning on the camera, the process will proceed automatically.

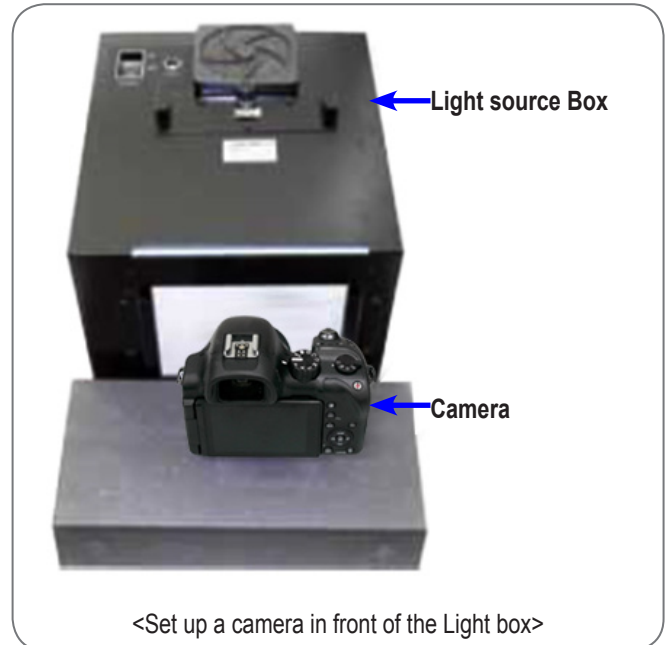


Fig. 8-22

4. Once the process is complete, AF LED and CARD LED will be on.

5. Turn the camera on and select smart auto mode. Then press the following button as shown in below.  
(1) Up button -> (2) OK button -> (3) Down button -> (4) Press and hold the EV and OK buttons simultaneously.

\* Firmware version 1.01 or later is updated to access the adjustment menu. Please refer to Service Bulletin for details.

There are two ways to view the process result. One way is to select the ADJUSTMENT CONTROL. Then select the ADJUST RESULT by pressing the Down button. Then press the OK button. The other way is to open the log file that saved on your SD card.



Fig. 8-23

## 8-10 Country setting (Wi-Fi)



- It is required to reset up Wi-Fi setting for the specified country after replacing the Main PCB.

- If the camera is not set region after replacing the Main PCB and is purchased from overseas, there are some issues as below.
  - User does not use SNS service country-specific
  - Do not support multiple languages for display and input when using Wi-Fi
  - Wi-Fi telecommunication speed may be down.
- Follow the below steps to set up country. (Page 8-16, Refer to <Table. 8-3>)
  - Open "nx300\_Country.adj" and change the country code  
EX> sys\_param shipment\_country set 055 (korea code : 055)
  - Copy the script file to SD card and insert the SD card into the camera.

info.tg

nx300m\_Conutry.adj

- When turning on the camera, the process will proceed automatically.

## 8-11 S/N, Mac address Input



- It is required to input Serial number and Mac Address after replacing the Main PCB.

- Open "nx300m\_SN\_MAC.adj" and input S/N & Mac Address

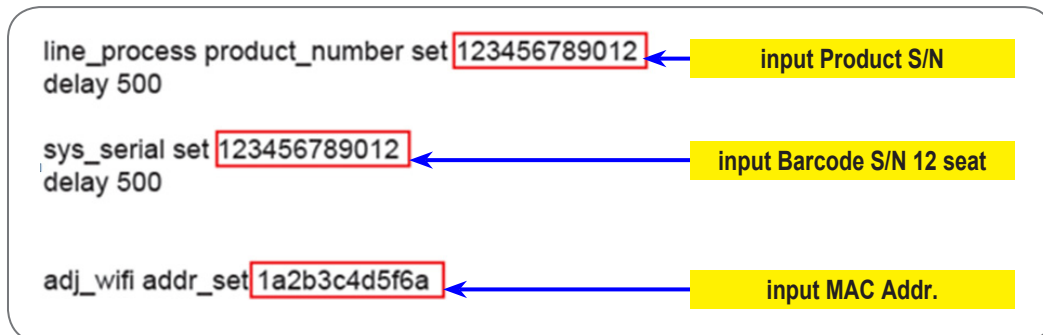


Fig. 8-24

- Copy the script file to SD card and insert the SD card into the camera.

info.tg

nx300m\_SN\_MAC.adj

- When turning on the camera, the process will proceed automatically (How to check: Menu → Setting → info)

| appliance information         |                   |
|-------------------------------|-------------------|
| Firmware information          |                   |
| main body Firmware            | 1.00              |
| lens Firmware                 | 01.20             |
| MAC address                   | 1a:2b:3c:4d:5f:6a |
| network number authentication | 123456789012      |

Fig. 8-25

## 8-12 PAF (Phase AF) Adjustment

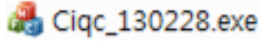


- This section describes how to adjust deviation of PAF sensor.

### Required equipment of

PAF adjustment equipment, USB cable

1. Please run PAF program. (Ciqc\_130228.exe)



2. Copy "info.tgw" file to SD card and insert the SD card into the camera.
3. Please attach camera to PAF equipment and connect USB cable.



Fig. 8-26

4. When turning on the camera, the process will proceed automatically.

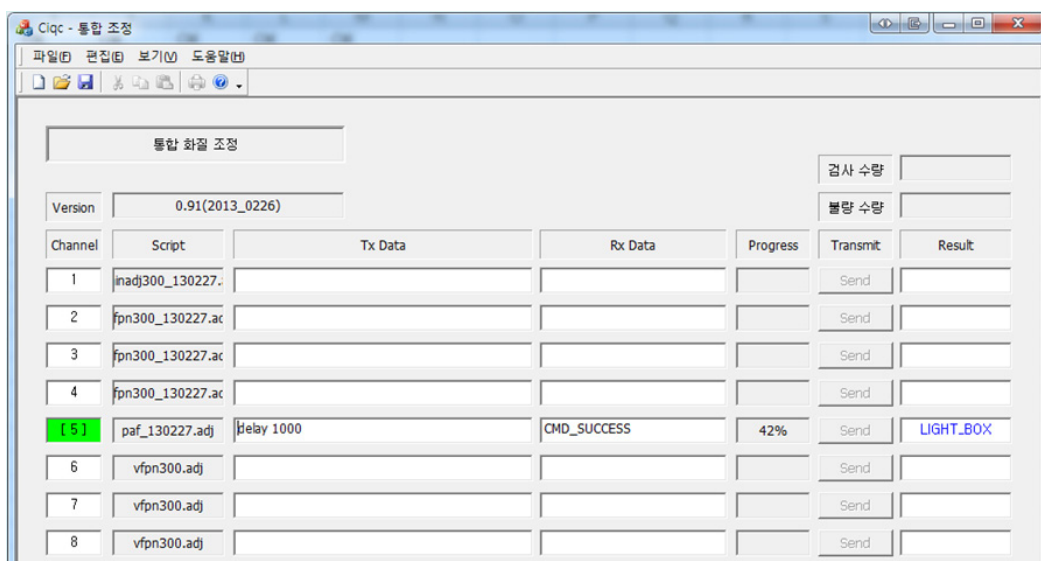


Fig. 8-27



<PAF equipment settings>

1. Connections.

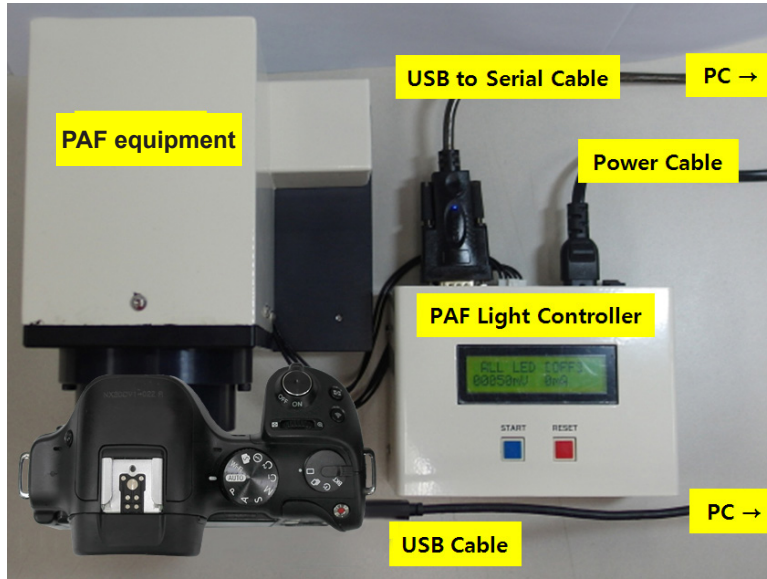
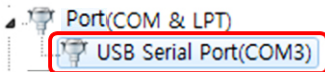


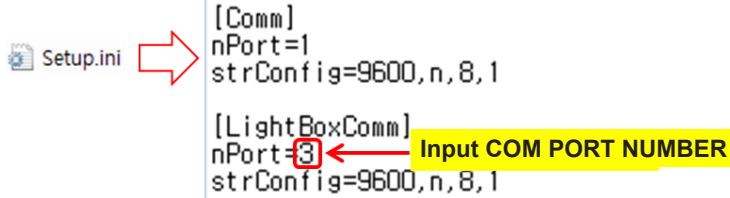
Fig. 8-28

2. USB to serial port setting.

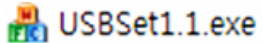
- 1) After installing USB to serial cable driver, please connect cable to PC.
- 2) Please check COM port number in device manger.



3) Please revise and store port number in "Setup.ini" file.



3. Please execute "USBSet1.1.exe" file.



4. Please cut USB ID and move to Channel 5.

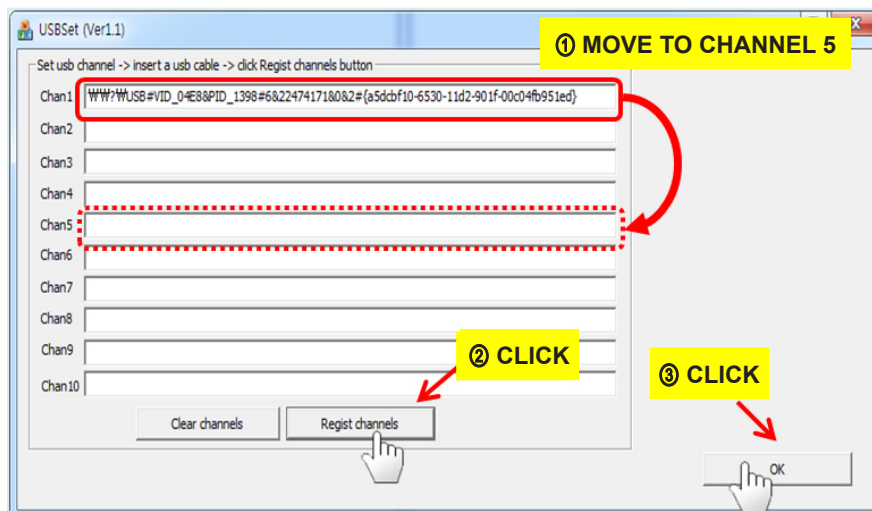


Fig. 8-29

## 8-13 NFC Tag Information Record



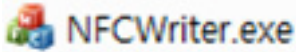
- This section describes how to record the Network information to NFC Tag.  
(When contacting to the smart phone, the camera app will start automatically)

### Required equipment of

PC, NFC writer

<How to adjust>

1. Please execute "NFCWriter.exe".



2. When you put NFC tag side in camera on writer, the LED turns color from red to green with beep sound.



Fig. 8-30

3. After insert model name and last 6 numbers of Mac Address, please click the writer tap by cursor for storing the data to Tag.

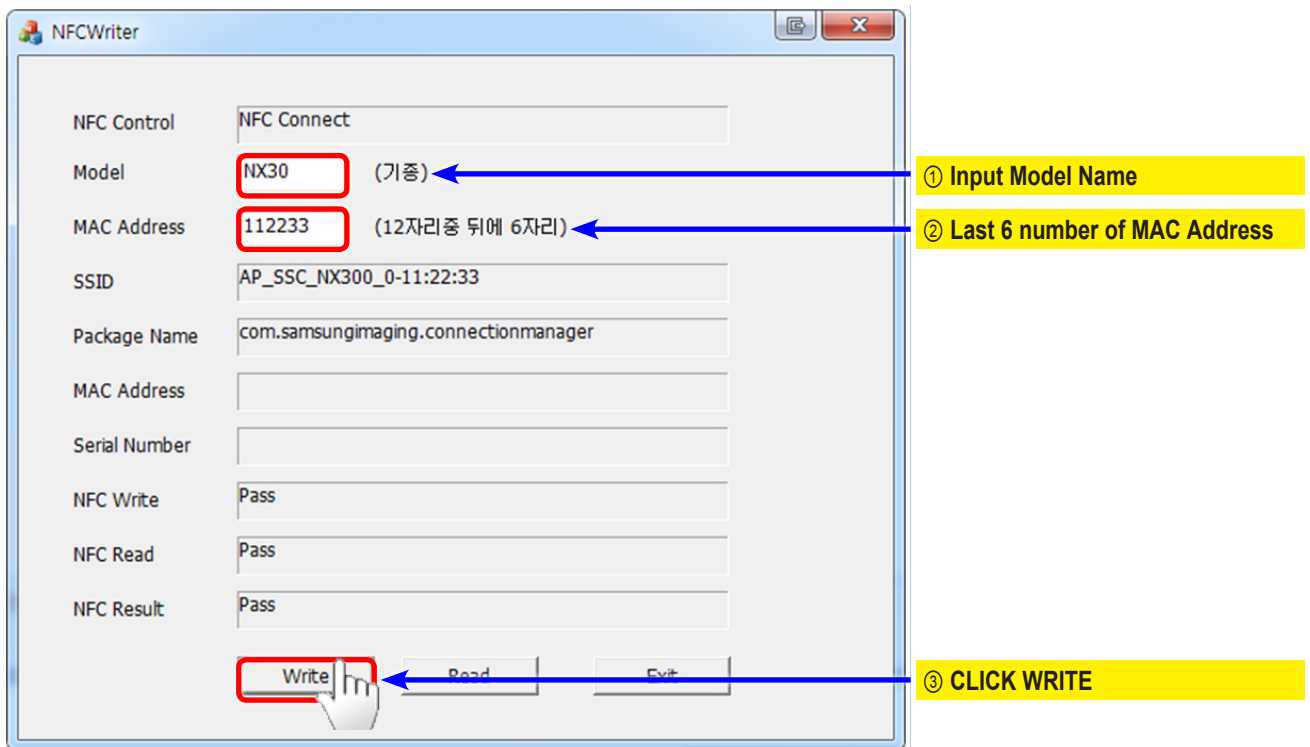


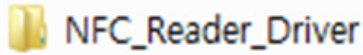
Fig. 8-31

## Adjustment

<How to install NFC writer >

1. Please connect NFC writer to PC

2. In case of WinXP , please install the driver provided with adjustment files.



3. Please install driver manually. Even though Win7 install the driver automatically, an error occurred working.

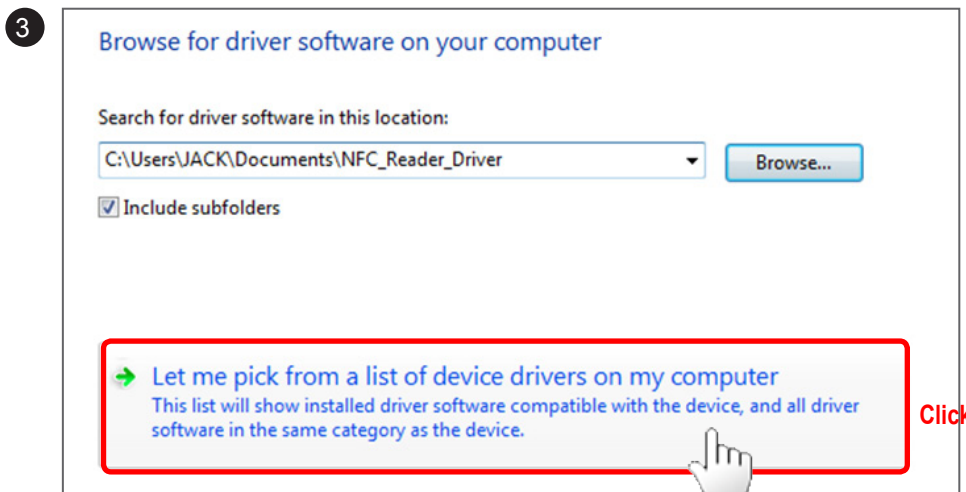
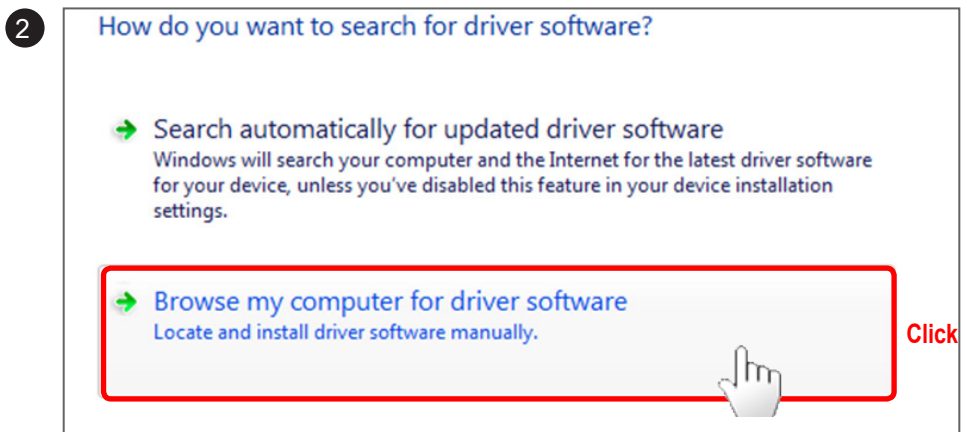
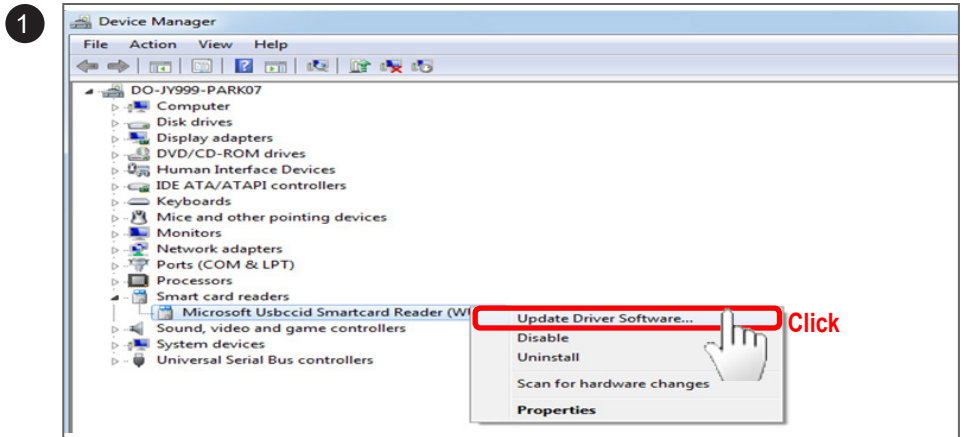


Fig. 8-32



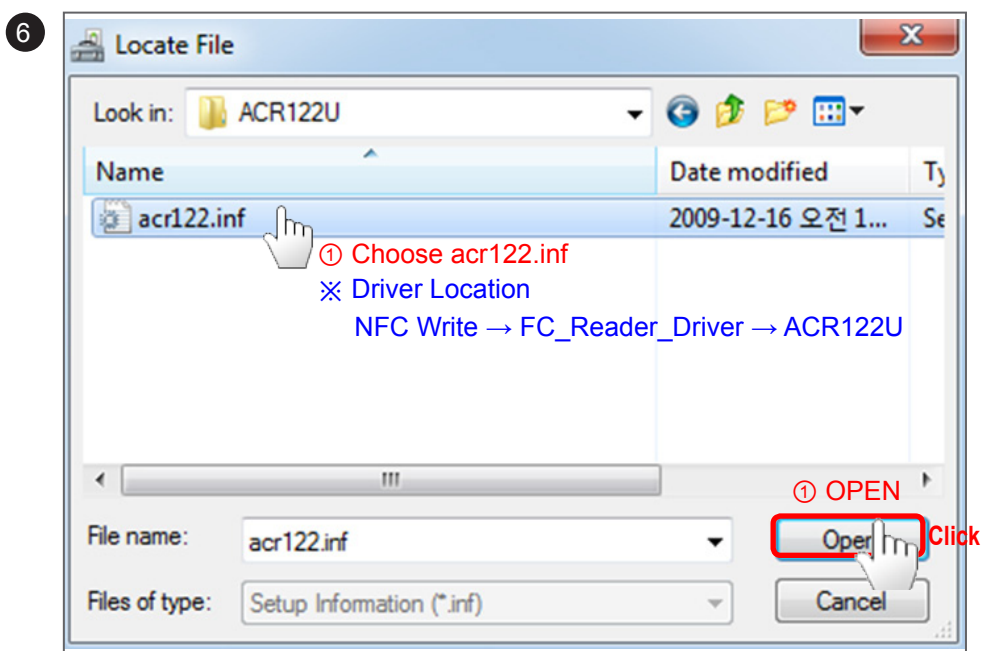
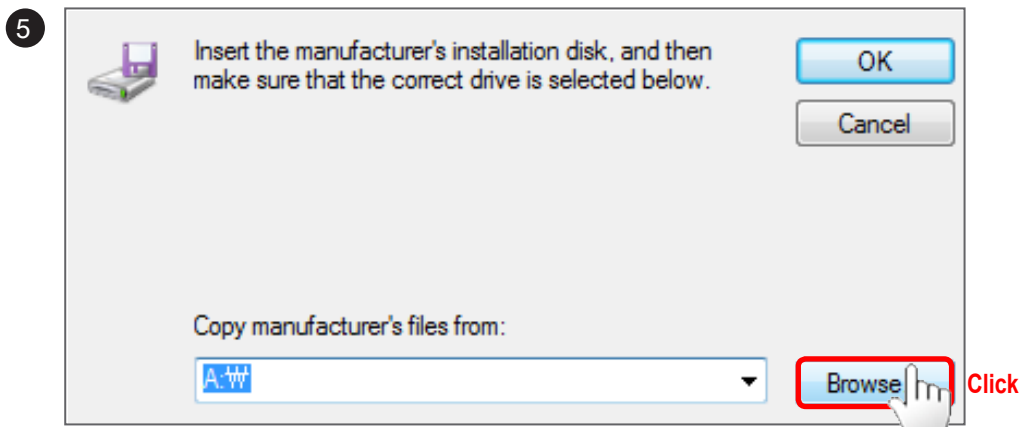
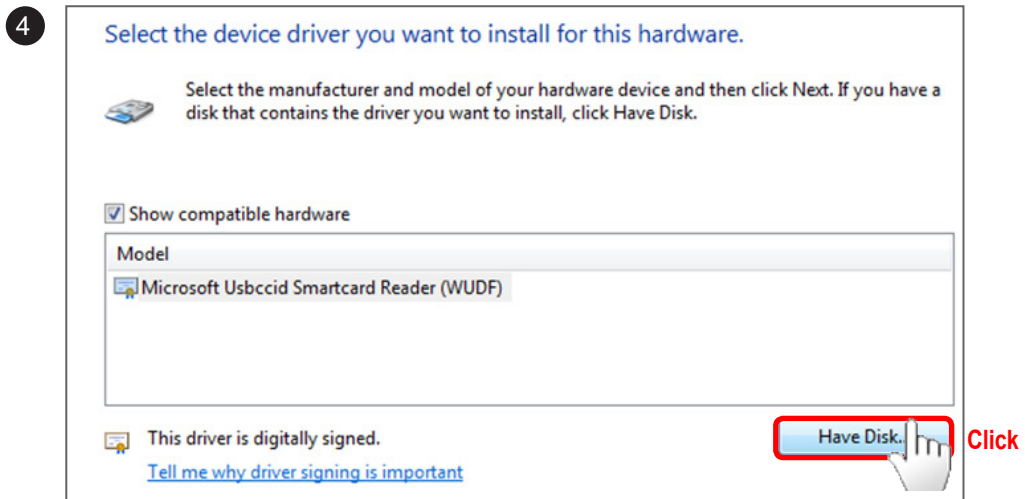


Fig. 8-33

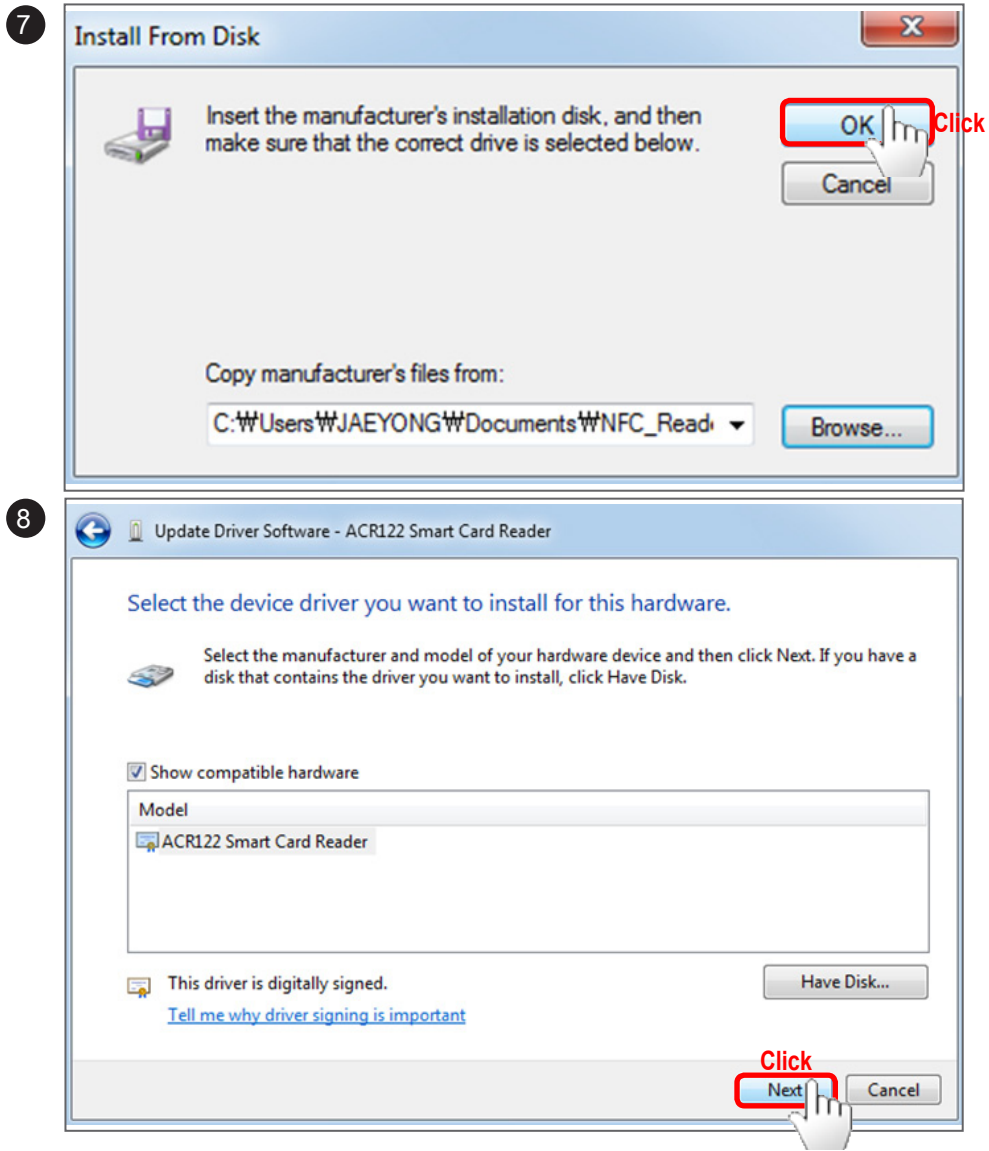


Fig. 8-34

4. After installing, PC shows pop-up message.

Windows has successfully updated your driver software

Windows has finished installing the driver software for this device:

ACR122 Smart Card Reader

## 8-14 Adjustment data Image Storage



- After the adjustment is completed, The adjustment value in the boot image is the process of storing.
- After adjustment progressIf you do not proceed with this process, the boot might be slower.

1. Copy the below two script files to memory card and insert the memory card into the camera.

- info.tg
- NX30\_snap.adj

2. When you turn on the power Adjustment data is stored in the Boot Image It takes about 3 minutes.

## &lt;Country code&gt;

| No | Country               | Code | No | Country     | Code | No  | Country            | Code |
|----|-----------------------|------|----|-------------|------|-----|--------------------|------|
| -  | DEFAULT               | ---  | 47 | IRAQ        | 047  | 94  | SAUDI_ARABIA       | 094  |
| 1  | AFGHANISTAN           | 001  | 48 | ISRAEL      | 048  | 95  | SEBJ               | 095  |
| 2  | ALBANIA               | 002  | 49 | ITALY       | 049  | 96  | SECD               | 096  |
| 3  | ALGERIA               | 003  | 50 | IVORY COAST | 050  | 97  | SEGZ               | 097  |
| 4  | ANGOLA                | 004  | 51 | JAPAN       | 051  | 98  | SENEGAL            | 098  |
| 5  | ARGENTINA             | 005  | 52 | JORDAN      | 052  | 99  | Serbia             | 099  |
| 6  | ARMENIA               | 006  | 53 | KAZAKHSTAN  | 053  | 100 | SESH               | 100  |
| 7  | AUSTRALIA             | 007  | 54 | KENYA       | 054  | 101 | SESY               | 101  |
| 8  | AUSTRIA               | 008  | 55 | KOREA       | 055  | 102 | SIEL(CALCUTTA)     | 102  |
| 9  | AZERBAIJAN            | 009  | 56 | Kyrgyzstan  | 056  | 103 | SIEL(CHENNAI)      | 103  |
| 10 | BANGLADESH            | 010  | 57 | LAS_PALMAS  | 057  | 104 | SIEL(DELHI)        | 104  |
| 11 | BENIN                 | 011  | 58 | LATVIA      | 058  | 105 | SIEL(MUMBAI)       | 105  |
| 12 | BOSNIA ANDHERZEGOVINA | 012  | 59 | LEBANON     | 059  | 106 | SIERRALEONE        | 106  |
| 13 | BRAZIL                | 013  | 60 | LIBERIA     | 060  | 107 | SINGAPORE          | 107  |
| 14 | BULGARIA              | 014  | 61 | LIBYA       | 061  | 108 | SINGER_SRI         | 108  |
| 15 | BURKINA_FASO          | 015  | 62 | MACEDONIA   | 062  | 109 | SLOVAKIA           | 109  |
| 16 | CAMEROON              | 016  | 63 | MADAGASKAR  | 063  | 110 | SLOVENIA           | 110  |
| 17 | CANADA                | 017  | 64 | MALAWI      | 064  | 111 | SLOVENIA           | 111  |
| 18 | CANARY                | 018  | 65 | MALAYSIA    | 065  | 112 | SOUTH_AFRICASPAIN  | 112  |
| 19 | CAPEVERDE             | 019  | 66 | MALI        | 066  | 113 | SPAIN              | 113  |
| 20 | CHILE                 | 020  | 67 | MAURITANIA  | 067  | 114 | SRI_LANKA          | 114  |
| 21 | CHINA                 | 021  | 68 | MAURITIUS   | 068  | 115 | SRILANKA           | 115  |
| 22 | COLOMBIA              | 022  | 69 | MAYOTTE     | 069  | 116 | SUDAN              | 116  |
| 23 | CONGO                 | 023  | 70 | MEXICO      | 070  | 117 | SWEDEN             | 117  |
| 24 | CROATIA               | 024  | 71 | MONGOLIA    | 071  | 118 | SWITZERLAND        | 118  |
| 25 | CYPRUS                | 025  | 72 | MONTENEGRO  | 072  | 119 | SYRIA              | 119  |
| 26 | CZECHREPUBLIC         | 026  | 73 | MOROCCO     | 073  | 120 | TAIWAN             | 120  |
| 27 | DENMARK               | 027  | 74 | MOROCCO     | 074  | 121 | TAJIKISTAN         | 121  |
| 28 | DJIBOUTI              | 028  | 75 | MYANMA      | 075  | 122 | TANZANIA           | 122  |
| 29 | EGYPT                 | 029  | 76 | NAMIBIA     | 076  | 123 | THAILAND           | 123  |
| 30 | ERITREA               | 030  | 77 | NEPAL       | 077  | 124 | TOGO               | 124  |
| 31 | ETHIOPIA              | 031  | 78 | NETHERLANDS | 078  | 125 | TUNISIA            | 125  |
| 32 | FRANCE                | 032  | 79 | NEW_ZEALAND | 079  | 126 | TURKEY             | 126  |
| 33 | GABON                 | 033  | 80 | NIGERIA     | 080  | 127 | TURKMENISTAN       | 127  |
| 34 | GAMBIA                | 034  | 81 | PAKISTAN    | 081  | 128 | U.A.E              | 128  |
| 35 | GEORGIA               | 035  | 82 | PALESTINE   | 082  | 129 | UGANDA             | 129  |
| 36 | GERMANY               | 036  | 83 | PALESTINE   | 083  | 130 | UKRAINE            | 130  |
| 37 | GHANA                 | 037  | 84 | PARAGUAY    | 084  | 131 | UNITED_KINGDOM     | 131  |
| 38 | Greece                | 038  | 85 | PARAGUAY    | 085  | 132 | UNITED_STATES      | 132  |
| 39 | GSS_CO                | 039  | 86 | PHILIPPINES | 086  | 133 | UNITEDARABEMIRATES | 133  |
| 40 | GUINEA                | 040  | 87 | POLAND      | 087  | 134 | URUGUAY            | 134  |
| 41 | Guinea-Bissau         | 041  | 88 | PORTUGAL    | 088  | 135 | UZBEKISTAN         | 135  |
| 42 | HONGKONG              | 042  | 89 | REUNION     | 089  | 136 | VIETNAM            | 136  |
| 43 | HUNGARY               | 043  | 90 | ROMANIA     | 090  | 137 | YUGOSLAVIA         | 137  |
| 44 | INDIA                 | 044  | 91 | RUSSIA      | 091  | 138 | ZAMBIA             | 138  |
| 45 | INDONESIA             | 045  | 92 | RWANDA      | 092  | 139 | ZIMBABWE           | 139  |
| 46 | IRAN                  | 046  | 93 | SAMPLE      | 093  |     |                    |      |

&lt;Table 8-3&gt;



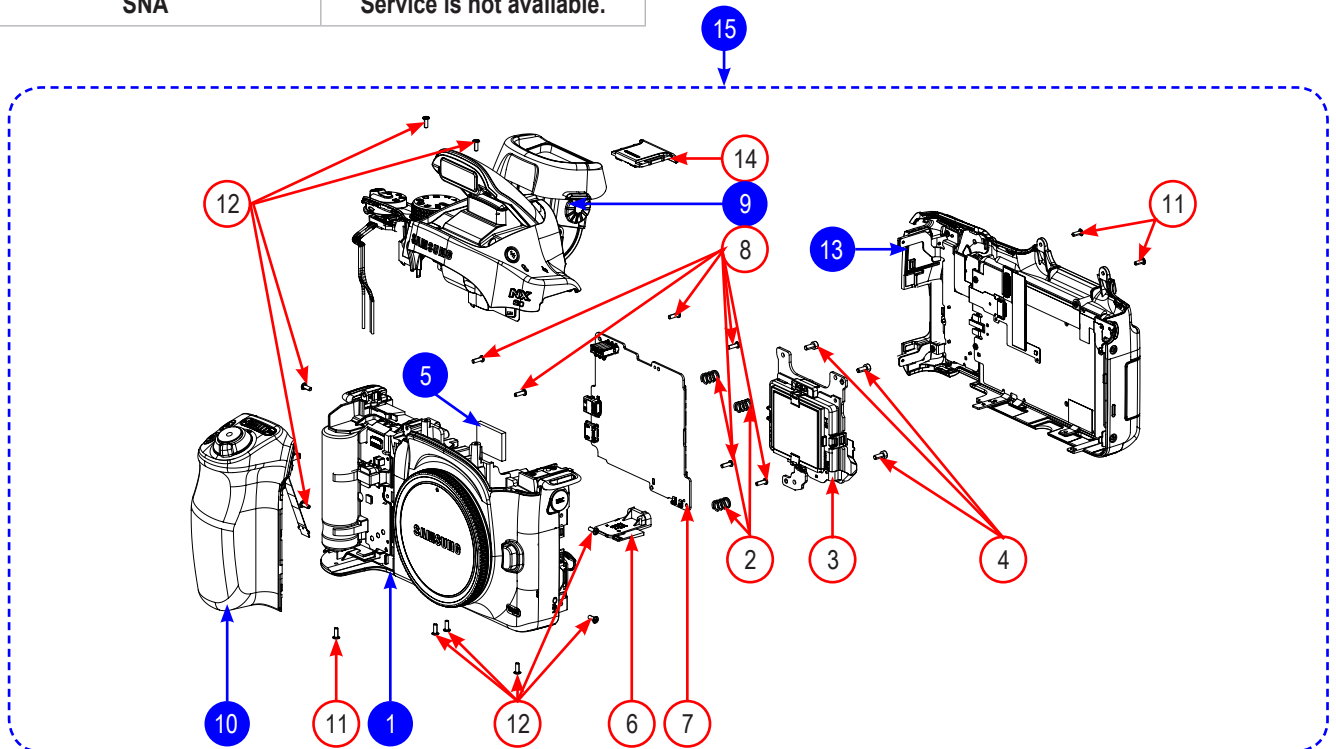
## 9. Exploded view and parts list

### 9-1 ASSY BODY



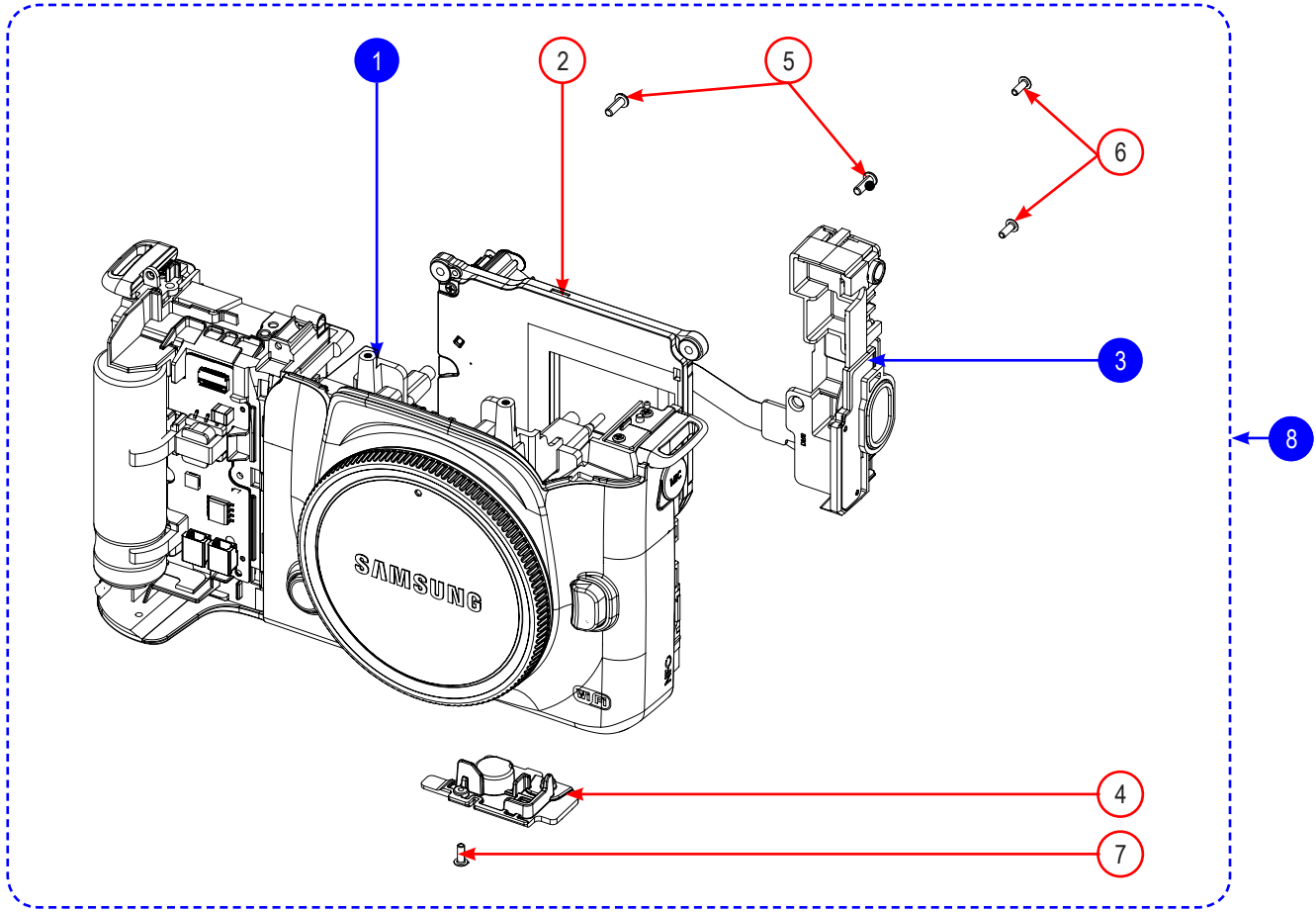
- The Exploded view and parts list of the service manual, Please reference the only BASIC MODEL code. later on derivative model, please refer to the **EV(Exploded View)** of the GSPN.

| Parts Service Information | Availability              |
|---------------------------|---------------------------|
| SA                        | Service is available.     |
| SNA                       | Service is not available. |



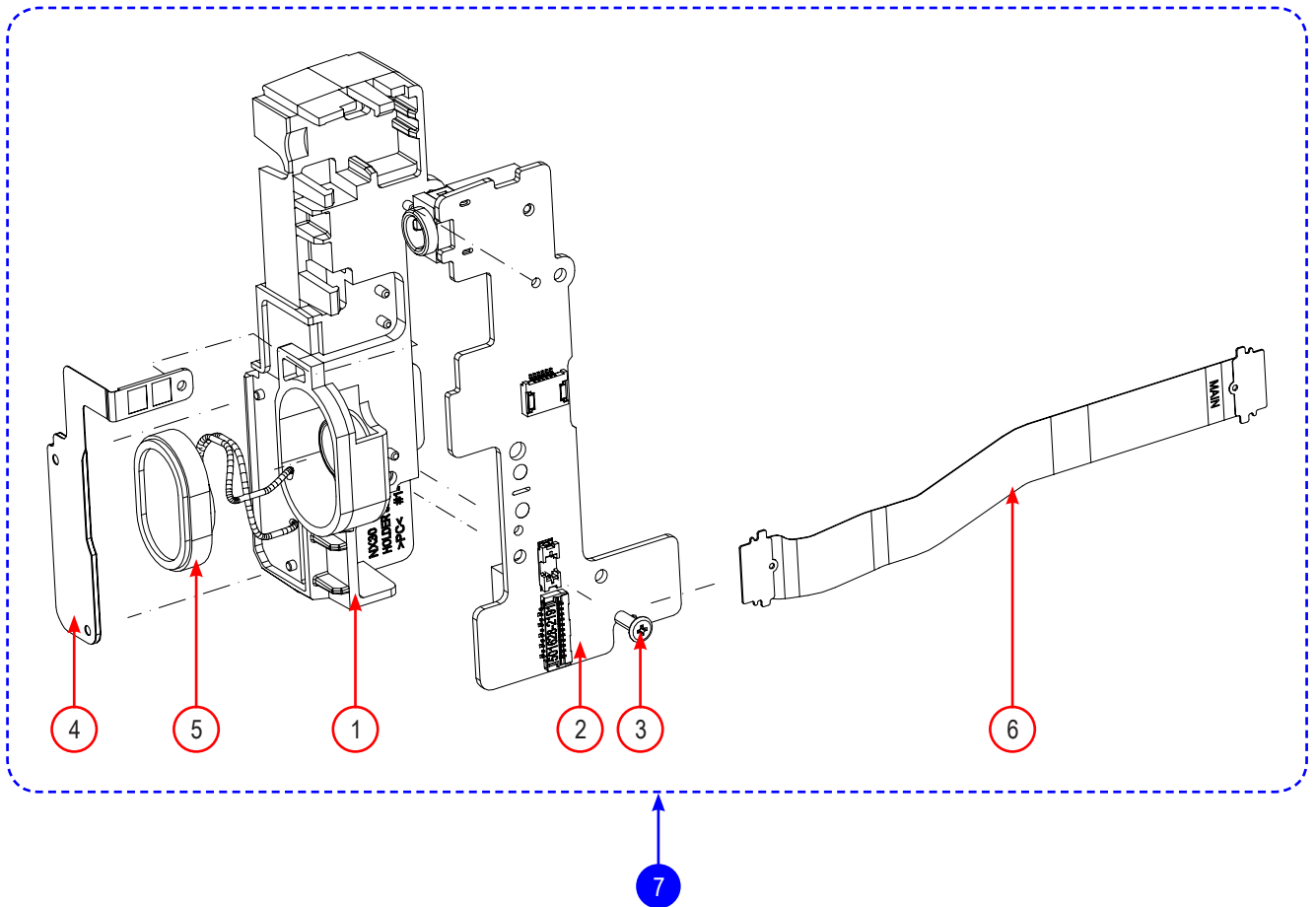
| Loc. No. | Parts No.   | Description                         | Qty | Available | Remark |
|----------|-------------|-------------------------------------|-----|-----------|--------|
| 1        | AD97-24054A | ASSY MAIN-SUB_NX30                  | 1   | SNA       |        |
| 2        | 6107-002736 | SPRING-CS                           | 3   | SA        |        |
| 3        | AD97-24056A | ASSY-CMOS                           | 1   | SA        |        |
| 4        | 6001-002279 | SCREW MACHINE (M1.7XL4(HEXA,BLACK)) | 3   | SA        |        |
| 5        | AD62-00221A | PAD GAP-CHAMBER                     | 1   | SNA       |        |
| 6        | AD42-00062A | ANTENNA-WIFI_ANT                    | 1   | SA        |        |
| 7        | AD92-02183A | ASSY PCB-NX30_MAIN_ASSY             | 1   | SA        |        |
| 8        | 6003-001717 | SCREW TAP (M1.4XL4.5(NI))           | 6   | SA        |        |
| 9        | AD97-24069A | ASSY COVER-TOP-NX30                 | 1   | SNA       |        |
| 10       | AD97-24065A | ASSY GRIP-FRONT-NX30                | 1   | SNA       |        |
| 11       | 6003-001743 | SCREW TAP (M1.4XL4(BLACK))          | 3   | SA        |        |
| 12       | 6001-002152 | SCREW MACHINE (M1.4XL4(BLACK))      | 9   | SA        |        |
| 13       | AD97-24070A | ASSY COVER-BACK-NX30                | 1   | SNA       |        |
| 14       | AD63-07457A | COVER-HOT SHOE_BK                   | 1   | SA        |        |
| 15       | AD90-05986A | ASSY BODY-NX300_BK                  |     | SNA       |        |

## 9-2 ASSY MAIN-SUB



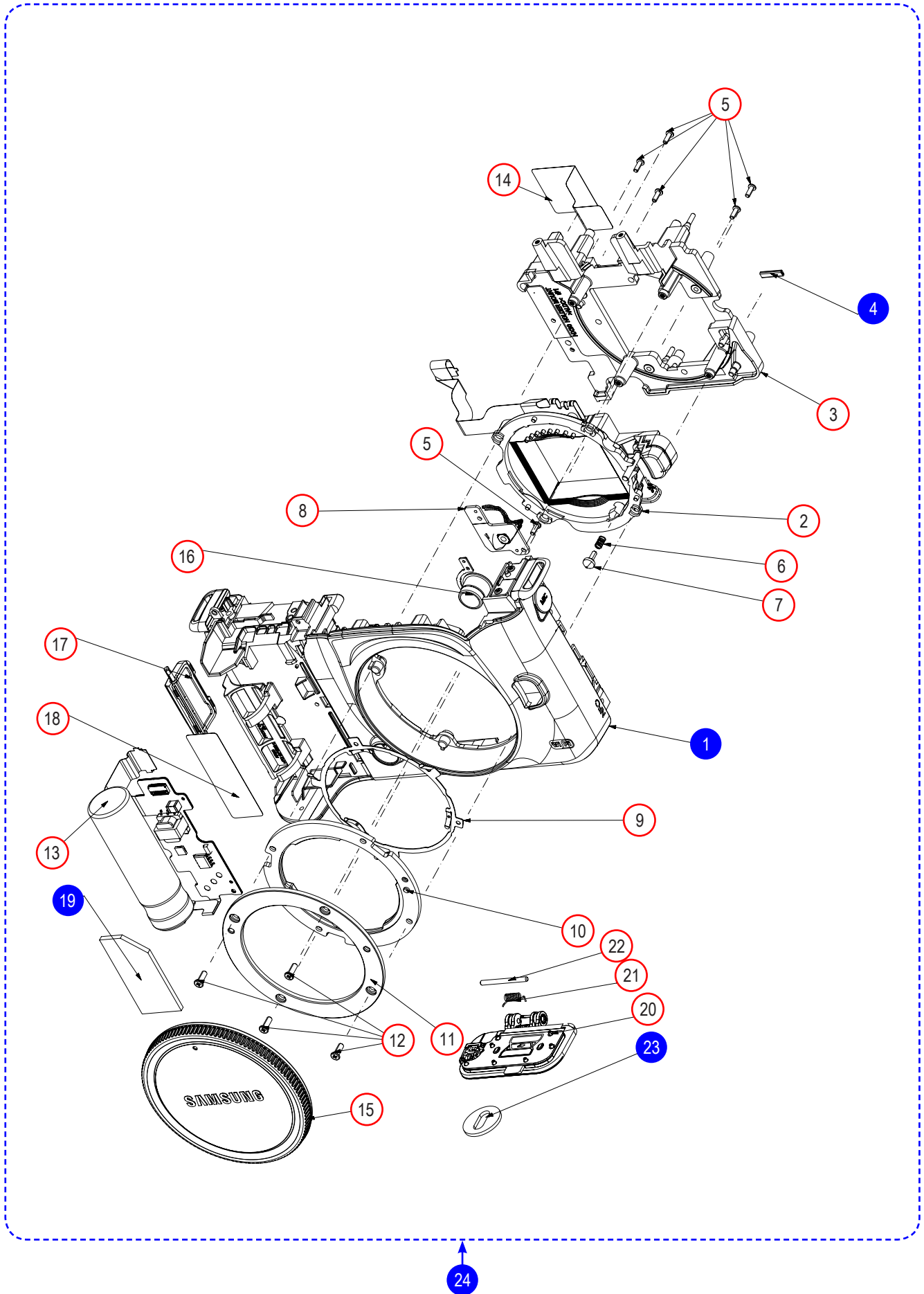
| Loc. No. | Parts No.   | Description                    | Qty | Available | Remark |
|----------|-------------|--------------------------------|-----|-----------|--------|
| 1        | AD97-24068A | ASSY COVER-FRONT-NX30          | 1   | SNA       |        |
| 2        | AD97-24197A | ASSY-SHUTTER_COPAL             | 1   | SA        |        |
| 3        | AD97-24059A | ASSY SPEAKER-DRS PCB-NX30      | 1   | SNA       |        |
| 4        | AD61-06015A | HOLDER-TRIPOD                  | 1   | SA        |        |
| 5        | 6001-002662 | SCREW-MACHINE (M1.7XL5.0(NI))  | 2   | SA        |        |
| 6        | 6001-002159 | SCREW-MACHINE (M1.7XL4.0(NI))  | 2   | SA        |        |
| 7        | 6001-002152 | SCREW-MACHINE (M1.4XL4(BLACK)) | 1   | SA        |        |
| 8        | AD97-24059A | ASSY SPEAKER-DRS PCB-NX30      |     | SNA       |        |

## 9-3 ASSY SPEAKER-DRS PCB



| Loc. No. | Parts No.   | Description                 | Qty | Available | Remark |
|----------|-------------|-----------------------------|-----|-----------|--------|
| 1        | AD61-06221A | HOLDER SPEAKER              | 1   | SA        |        |
| 2        | AD92-02188A | ASSY PCB-NX30_DRS_HPCB_ASSY | 1   | SA        |        |
| 3        | 6003-001739 | SCREW MACHINE (M1.4XL4(NI)) | 1   | SA        |        |
| 4        | AD42-00061A | ANTENNA-NFC_TAG             | 1   | SA        |        |
| 5        | 3001-002641 | SPEAKER                     | 1   | SA        |        |
| 6        | AD41-02063A | NX30_SUB_FPCB               | 1   | SA        |        |
| 7        | AD97-24059A | ASSY SPEAKER-DRS PCB-NX30   |     | SNA       |        |

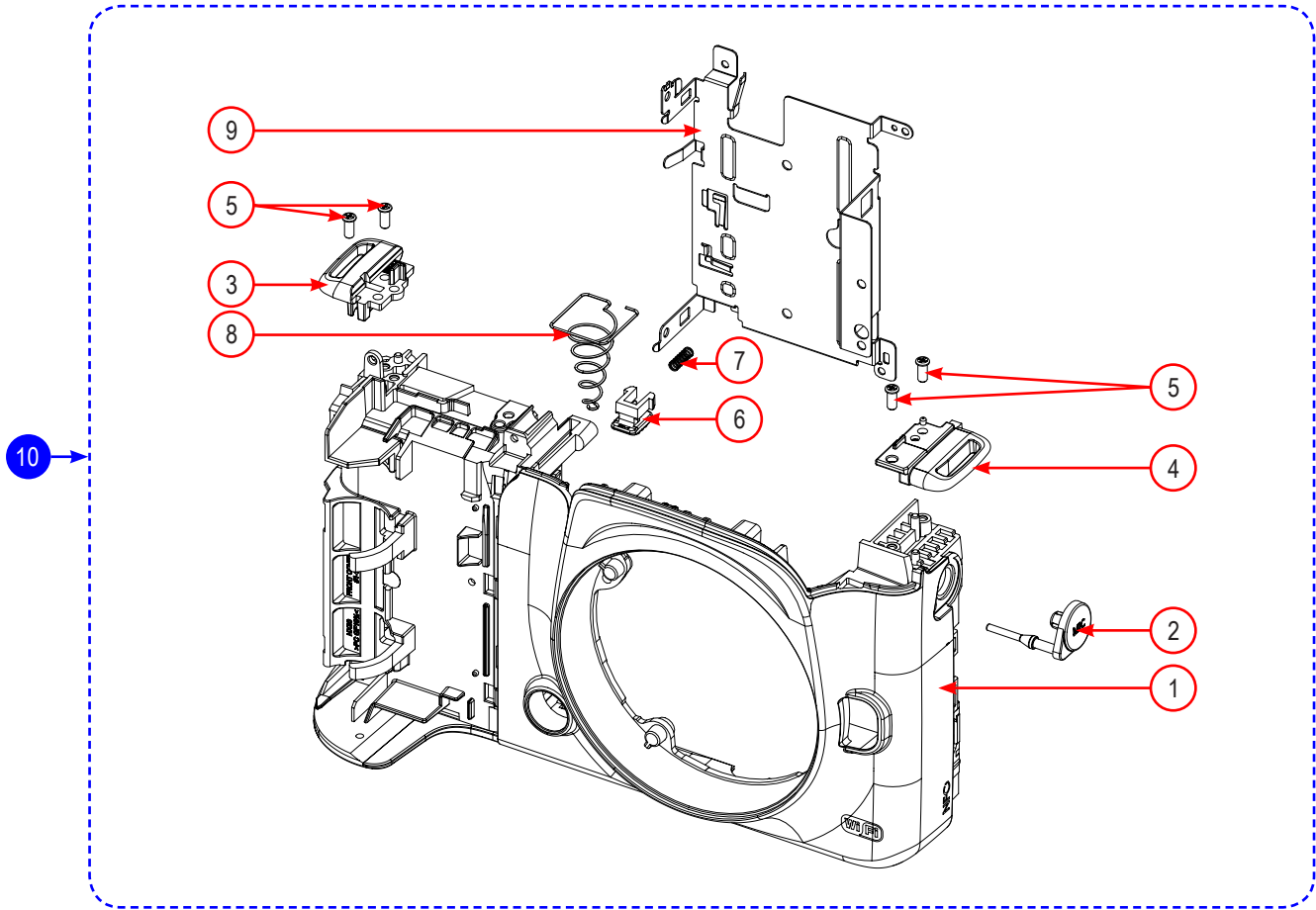
# 9-4 ASSY COVER-FRONT





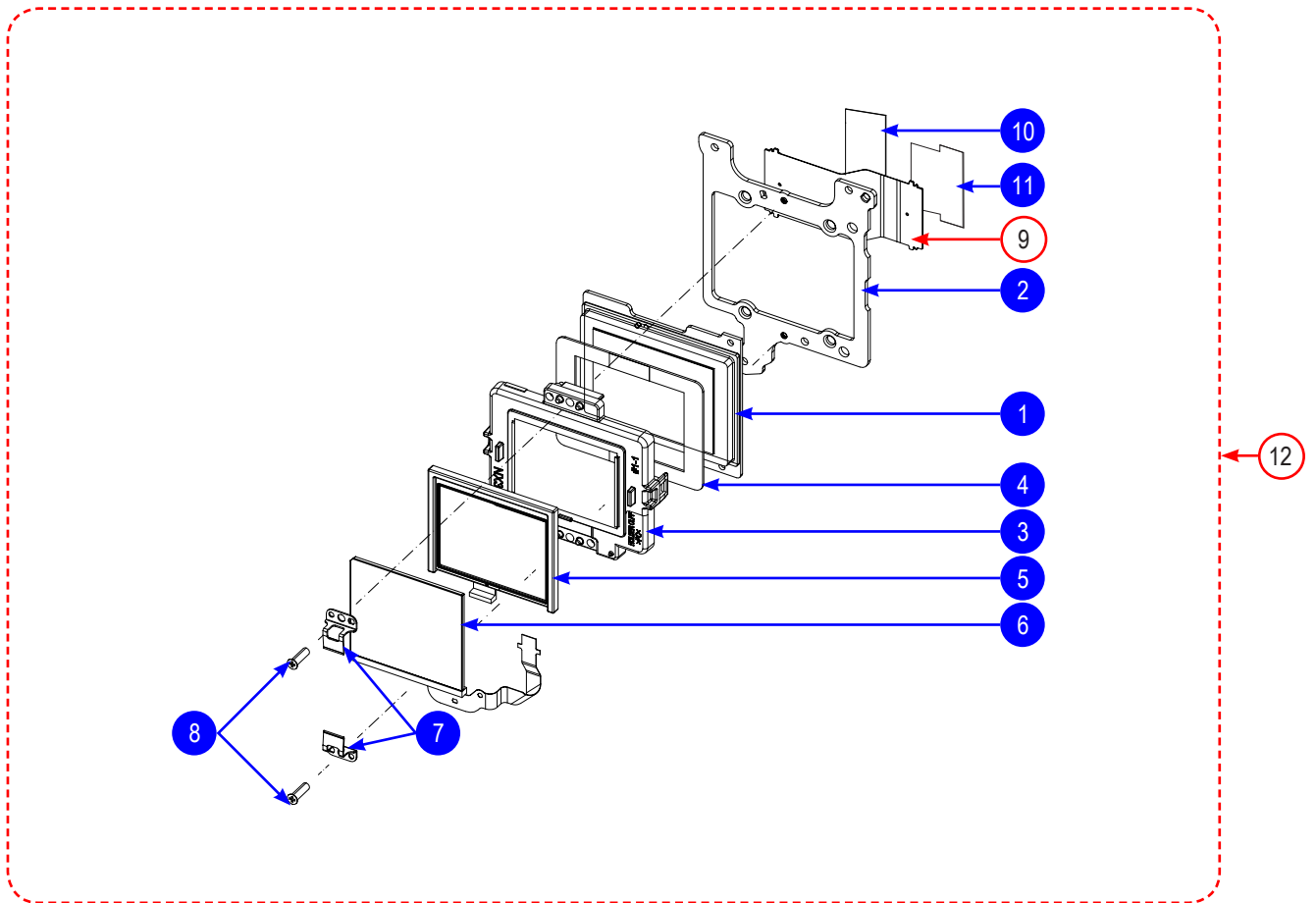
| Loc. No. | Parts No.   | Description                    | Qty | Available | Remark |
|----------|-------------|--------------------------------|-----|-----------|--------|
| 1        | AD97-24055A | ASSY CHAMBER-NX30              | 1   | SNA       |        |
| 2        | AD97-24057A | ASSY HOLDER-INNER MOUNT-NX30   | 1   | SA        |        |
| 3        | AD61-06219A | HOLDER-MOUNT                   | 1   | SA        |        |
| 4        | AD63-02033A | CUSHION SHIELD FOAM-E          | 1   | SNA       |        |
| 5        | 6003-001659 | SCREW TAP (M1.4XL4(BLACK))     | 6   | SA        |        |
| 6        | 6107-001781 | SPRING LENS DETECT             | 1   | SA        |        |
| 7        | AD66-00945A | SHAFT LENS DETECT              | 1   | SA        |        |
| 8        | AD92-02194A | ASSY PCB-NX30_DEPTH_HPCB_ASSY  | 1   | SA        |        |
| 9        | AD61-05314A | PLATE MOUNT SPRING             | 1   | SA        |        |
| 10       | AD61-05307B | INNER MOUNT                    | 1   | SA        |        |
| 11       | AD61-05284A | PLATE MOUNT LENS               | 1   | SA        |        |
| 12       | 6001-002662 | SCREW-MACHINE (M1.7XL5.0(NI))  | 4   | SA        |        |
| 13       | AD92-02191A | ASSY PCB-NX30_STROBO_FPCB_ASSY | 1   | SA        |        |
| 14       | AD63-07835A | SHEET-CHAMBER_HEAT             | 1   | SA        |        |
| 15       | AD67-02616A | CAP-MOUNT                      | 1   | SA        |        |
| 16       | AD64-04047A | BUTTON PREVIEW                 | 1   | SA        |        |
| 17       | AD63-07737A | COVER SOCKET                   | 1   | SA        |        |
| 18       | AD63-07861A | T/SHEET CONDENSOR              | 1   | SA        |        |
| 19       | AD63-07876A | CUSHION CONDENSOR              | 1   | SNA       |        |
| 20       | AD97-24071A | BATTERY COVER ASSY             | 1   | SA        |        |
| 21       | 6107-003310 | SPRING TS BATT COVER           | 1   | SA        |        |
| 22       | AD66-01109A | SHAFT COVER BATTERY            | 1   | SA        |        |
| 23       | AD63-07887A | CUSHION-STROBO                 |     | SNA       |        |
| 24       | AD97-24068A | ASSY COVER-FRONT-NX30          |     | SNA       |        |

## 9-5 ASSY CHAMBER



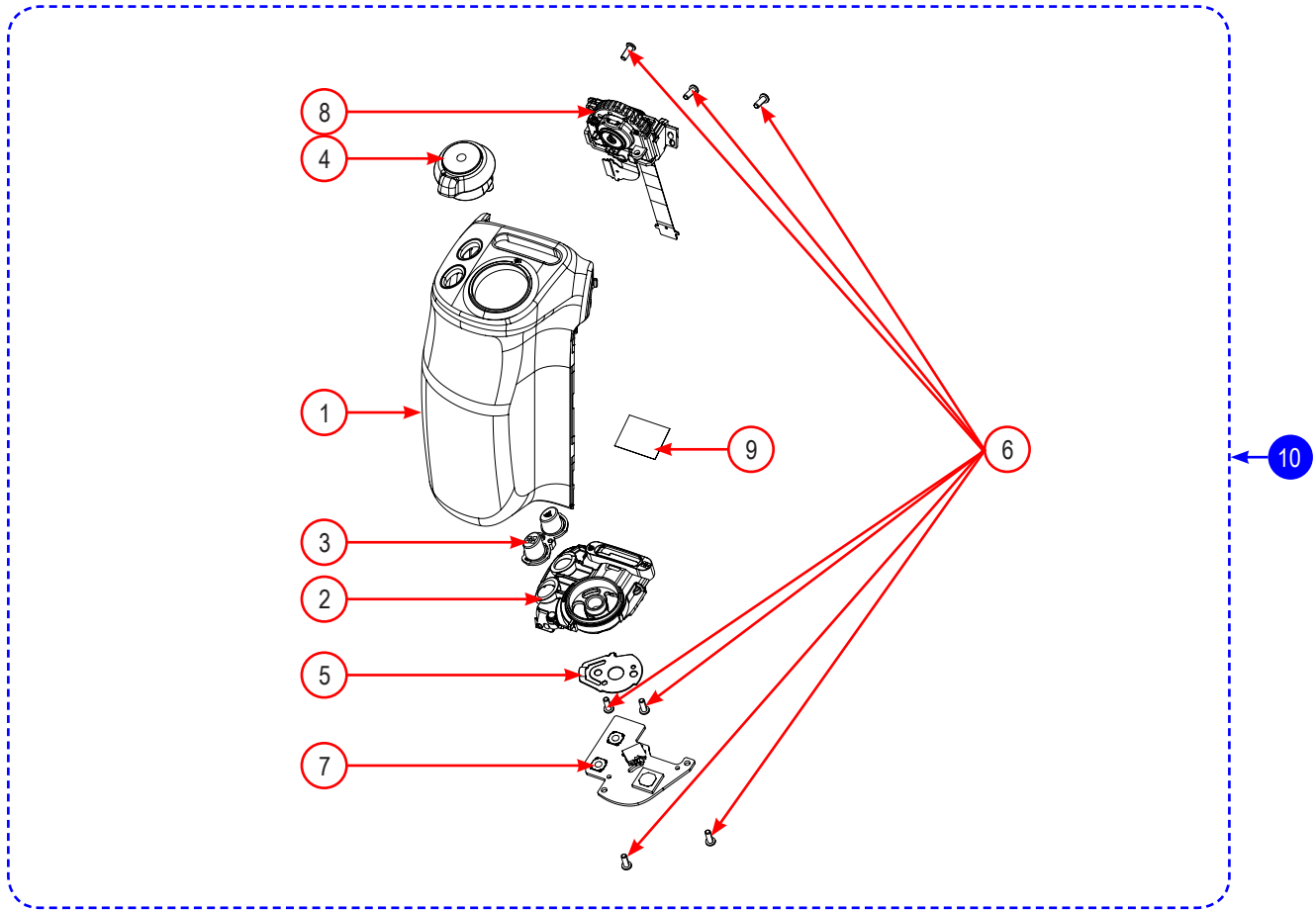
| Loc. No. | Parts No.   | Description              | Qty | Available | Remark |
|----------|-------------|--------------------------|-----|-----------|--------|
| 1        | AD63-07722A | COVER-FRONT_BK           | 1   | SA        |        |
| 2        | AD63-07736A | COVER-MIC                | 1   | SA        |        |
| 3        | AD61-06220A | HOLDER-STRAP R           | 1   | SA        |        |
| 4        | AD61-05660A | HOLDER-STRAP L           | 1   | SA        |        |
| 5        | 6003-001490 | SCREW-TAPTYPE(M1.4XL1.0) | 4   | SA        |        |
| 6        | AD66-01074A | LEVER-BATTERY LCOK       | 1   | SA        |        |
| 7        | 6107-002735 | SPRING-CS                | 1   | SA        |        |
| 8        | 6107-002737 | SPRING-ETC               | 1   | SA        |        |
| 9        | AD61-06237A | PLATE-CHAMBER BATTERY    | 1   | SA        |        |
| 10       | AD97-24055A | ASSY CHAMBER-NX30        |     | SNA       |        |

## 9-6 ASSY CMOS



| Loc. No. | Parts No.   | Description                 | Qty | Available | Remark |
|----------|-------------|-----------------------------|-----|-----------|--------|
| 1        | AD92-02011A | ASSY PCB CIS                | 1   | SNA       |        |
| 2        | AD61-06242A | PLATE-CMOS                  | 1   | SNA       |        |
| 3        | AD61-06241A | HOLDER-OLPF                 | 1   | SNA       |        |
| 4        | AD63-06276A | CUSHION CMOS                | 1   | SNA       |        |
| 5        | AD67-02803A | RUBBER-CMOS                 | 1   | SNA       |        |
| 6        | AD97-24126A | ASSY PZT-NX30               | 1   | SNA       |        |
| 7        | AD97-21628A | ASSY-PLATE PZT              | 2   | SNA       |        |
| 8        | 6001-002297 | SCREW MACHINE (M1.7XL5(NI)) | 2   | SNA       |        |
| 9        | AD41-02066A | FPCB CMOS                   | 1   | SA        |        |
| 10       | AD63-07838A | SHEET CIS FPCB              | 1   | SNA       |        |
| 11       | AD02-00167A | TAPE ETC-CIS2               | 1   |           |        |
| 12       | AD97-24056A | ASSY CMOS-NX30              |     | SA        |        |

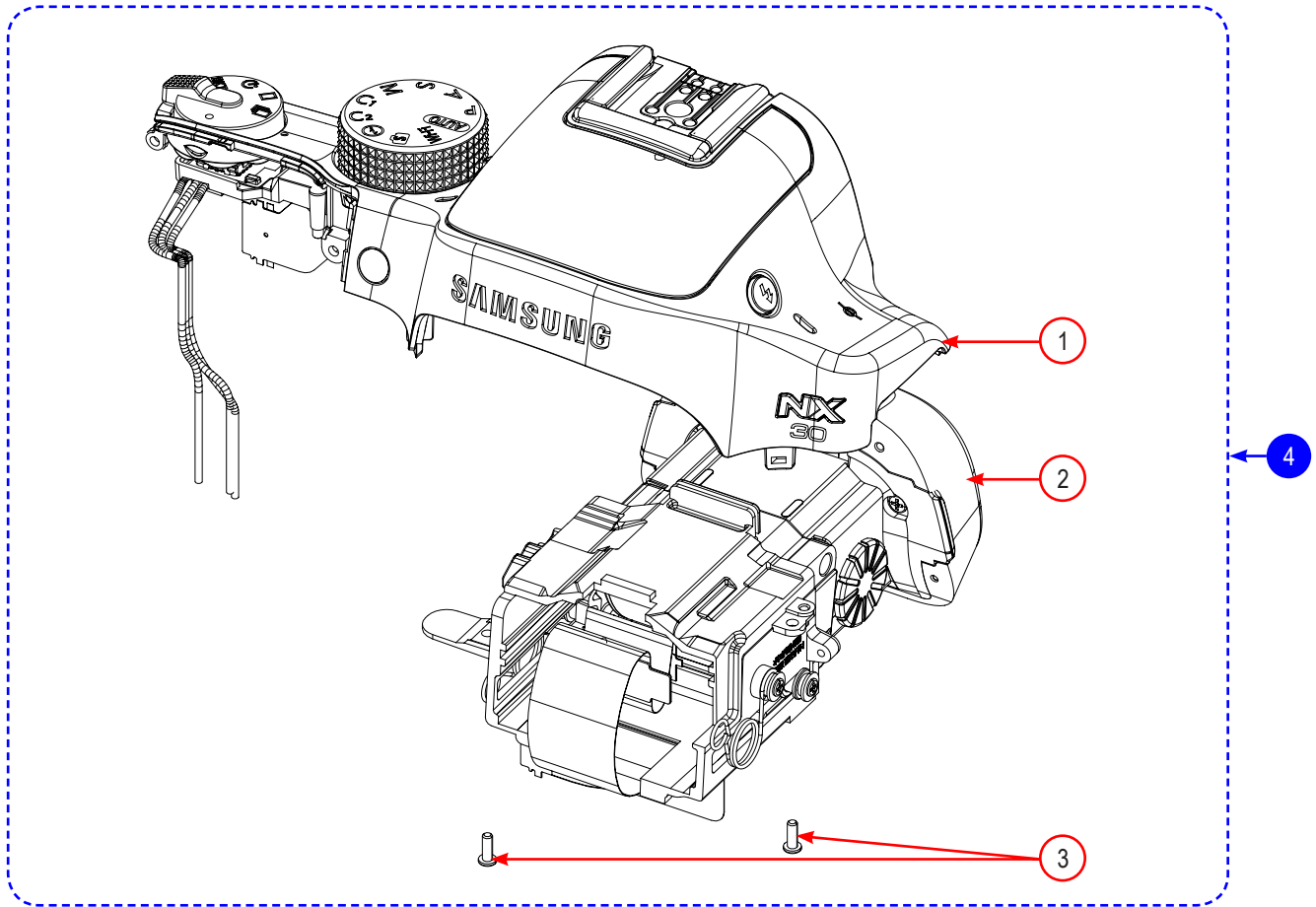
## 9-7 ASSY GRIP-FRONT



| Loc. No. | Parts No.   | Description                   | Qty | Available | Remark |
|----------|-------------|-------------------------------|-----|-----------|--------|
| 1        | AD63-07738A | GRIP-FRONT                    | 1   | SA        |        |
| 2        | AD61-06216A | HOLDER-BUTTON POWER_BK        | 1   | SA        |        |
| 3        | AD64-04045A | BUTTON-TOP                    | 1   | SA        |        |
| 4        | AD97-24061A | ASSY-LEVER POWER-NX30         | 1   | SA        |        |
| 5        | AD61-06233A | PLATE-LEVER POWER             | 1   | SA        |        |
| 6        | 6003-001659 | SCREW-TAPTYPE(M1.4XL4.0)      | 6   | SA        |        |
| 7        | AD92-02192A | ASSY PCB-NX30_POWER_HPCB_ASSY | 1   | SA        |        |
| 8        | AD97-24066A | ASSY-COMMAND DIAL-NX30        | 1   | SA        |        |
| 9        | AD63-07593A | SHEET-CONNECTOR               | 1   | SA        |        |
| 10       | AD97-24065A | ASSY GRIP-FRONT-NX30          |     | SNA       |        |

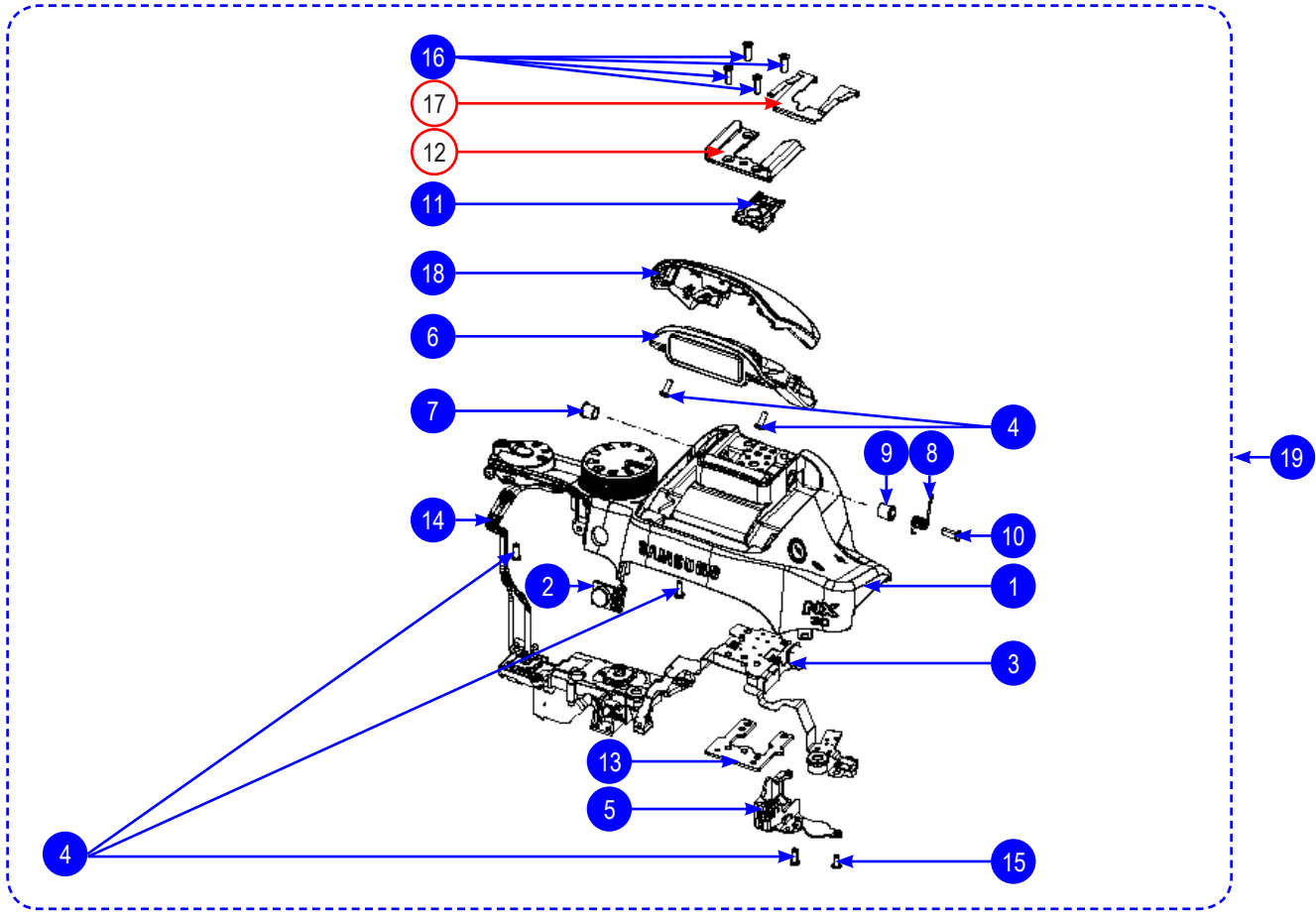


## 9-8 ASSY COVER TOP

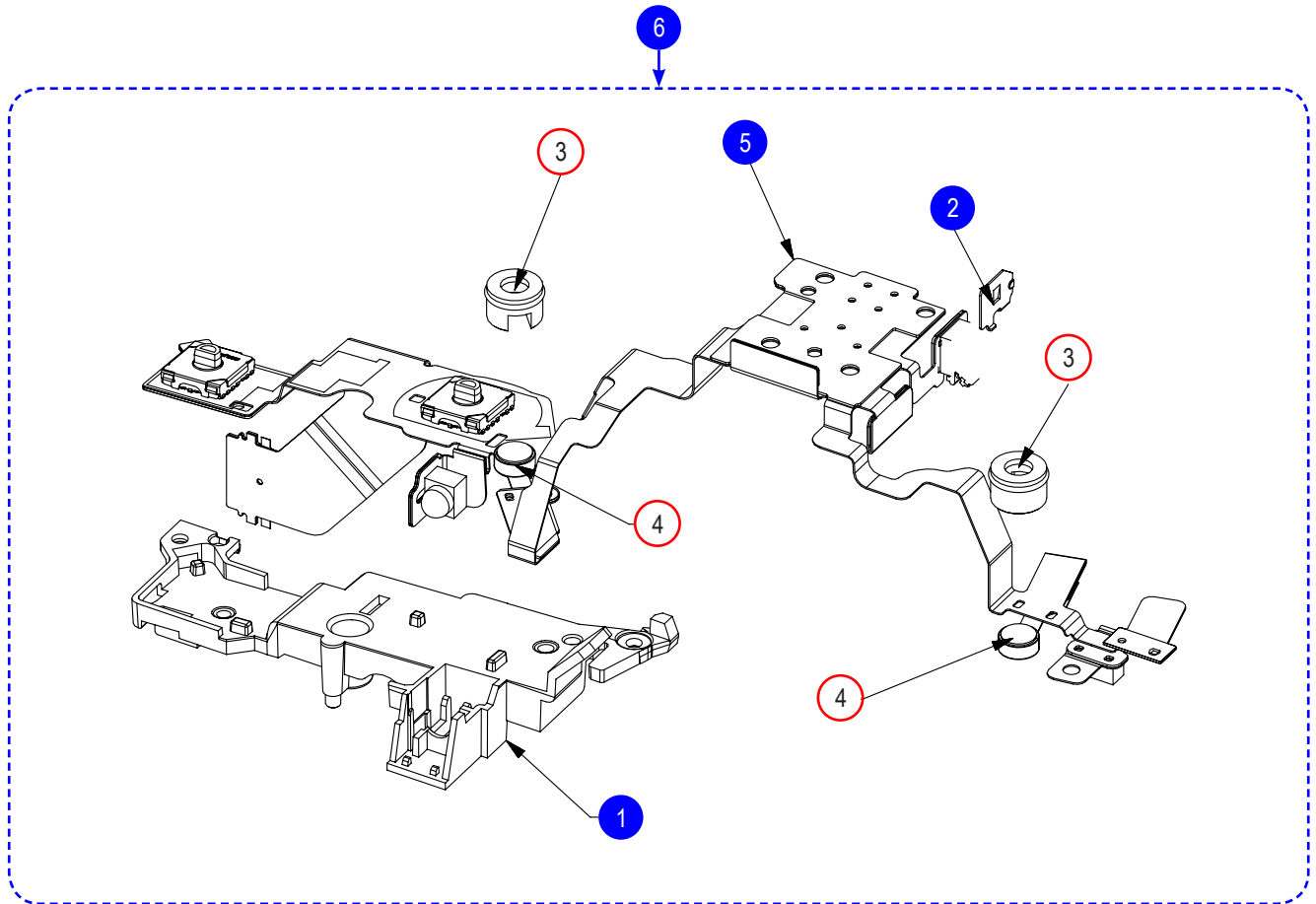


| Loc. No. | Parts No.   | Description                   | Qty | Available | Remark |
|----------|-------------|-------------------------------|-----|-----------|--------|
| 1        | AD97-24206A | ASSY-COVER-TOP AS_NX30        | 1   | SA        |        |
| 2        | AD97-24062A | ASSY-EVF-NX30                 | 1   | SA        |        |
| 3        | 6003-001659 | SCREW-TAPTYPE (M1.4XL4(BLK))) | 2   | SA        |        |
| 4        | AD97-24069A | ASSY COVER-TOP-NX30           |     | SNA       |        |

## 9-9 ASSY COVER TOP AS

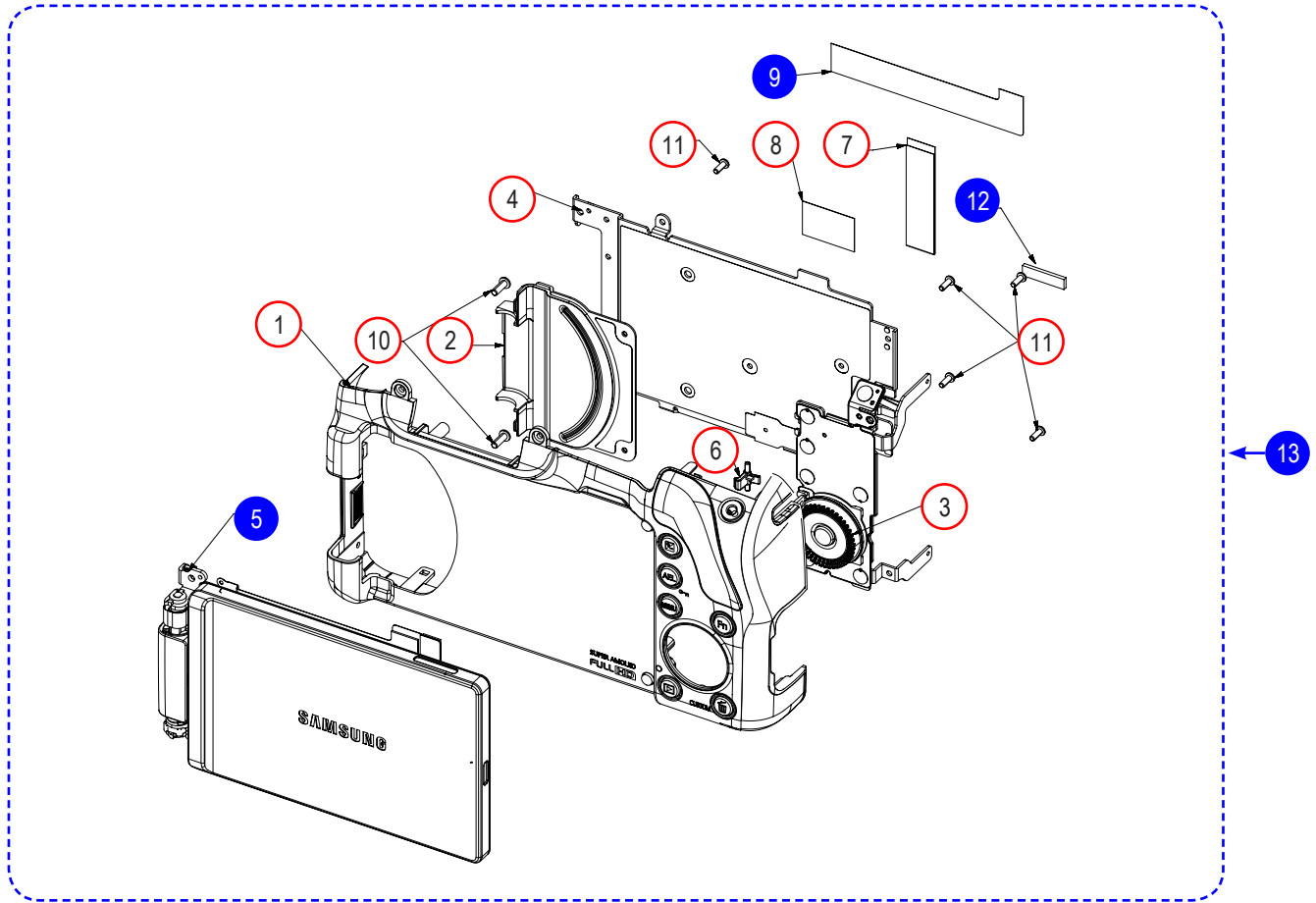


| Loc. No. | Parts No.   | Description                 | Qty | Available | Remark |
|----------|-------------|-----------------------------|-----|-----------|--------|
| 1        | AD97-24072A | ASSY COVER-TOP SUB-NX30     | 1   | SNA       |        |
| 2        | AD64-04052A | WINDOW AF                   | 1   | SNA       |        |
| 3        | AD97-24111A | ASSY TOP-HOLDER FPCB-NX30   | 1   | SNA       |        |
| 4        | 6003-001659 | SCREW TAP (M1.4XL4(BLK))    | 5   | SNA       |        |
| 5        | AD97-24060A | ASSY-LOCK LEVER-NX30        | 1   | SNA       |        |
| 6        | AD97-24058A | ASSY STROBO-NX30            | 1   | SNA       |        |
| 7        | AD61-05689A | BUSH-POP UP A               | 1   | SNA       |        |
| 8        | AD61-06263A | SPRING ETC-POP UP           | 1   | SNA       |        |
| 9        | AD61-04137A | BUSH-POP UP B               | 1   | SNA       |        |
| 10       | AD66-01039A | SHAFT-POP UP-NX20           | 1   | SNA       |        |
| 11       | AD97-21707A | ASSY-HOT SHOE               | 1   | SNA       |        |
| 12       | AD61-05722B | PLATE HOT SHOE WH           | 1   | SA        |        |
| 13       | AD61-06232A | PLATE HOT SHOE BOTTOM       | 1   | SNA       |        |
| 14       | AD39-00208A | WIRE HARNESS                | 1   | SNA       |        |
| 15       | 6003-001660 | SCREW TAP (M1.4XL3(NI))     | 1   | SNA       |        |
| 16       | 6001-002281 | SCREW MACHINE (M1.7XL5(NI)) | 4   | SNA       |        |
| 17       | AD61-06005B | PLATE SPRING SHOE WH        | 1   | SA        |        |
| 18       | AD63-07727A | COVER STROBO TOP            | 1   | SNA       |        |
| 19       | AD97-24206A | ASSY COVER TOP AS           |     | SA        |        |

**9-10 ASSY TOP-HOLDER FPCB**

| Loc. No. | Parts No.   | Description               | Qty | Available | Remark |
|----------|-------------|---------------------------|-----|-----------|--------|
| 1        | AD61-06225A | HOLDER TOP PCB            | 1   | SNA       |        |
| 2        | AD61-05657A | HOLDER SWITCH             | 1   | SNA       |        |
| 3        | AD67-02581A | RUBBER MIC                | 2   | SA        |        |
| 4        | 3003-001198 | MIC CONDENSOR             | 2   | SA        |        |
| 5        | AD92-02184A | ASSY PCB-NX30_TOP_ASSY    | 1   | SNA       |        |
| 6        | AD97-24111A | ASSY TOP-HOLDER FPCB-NX30 |     | SNA       |        |

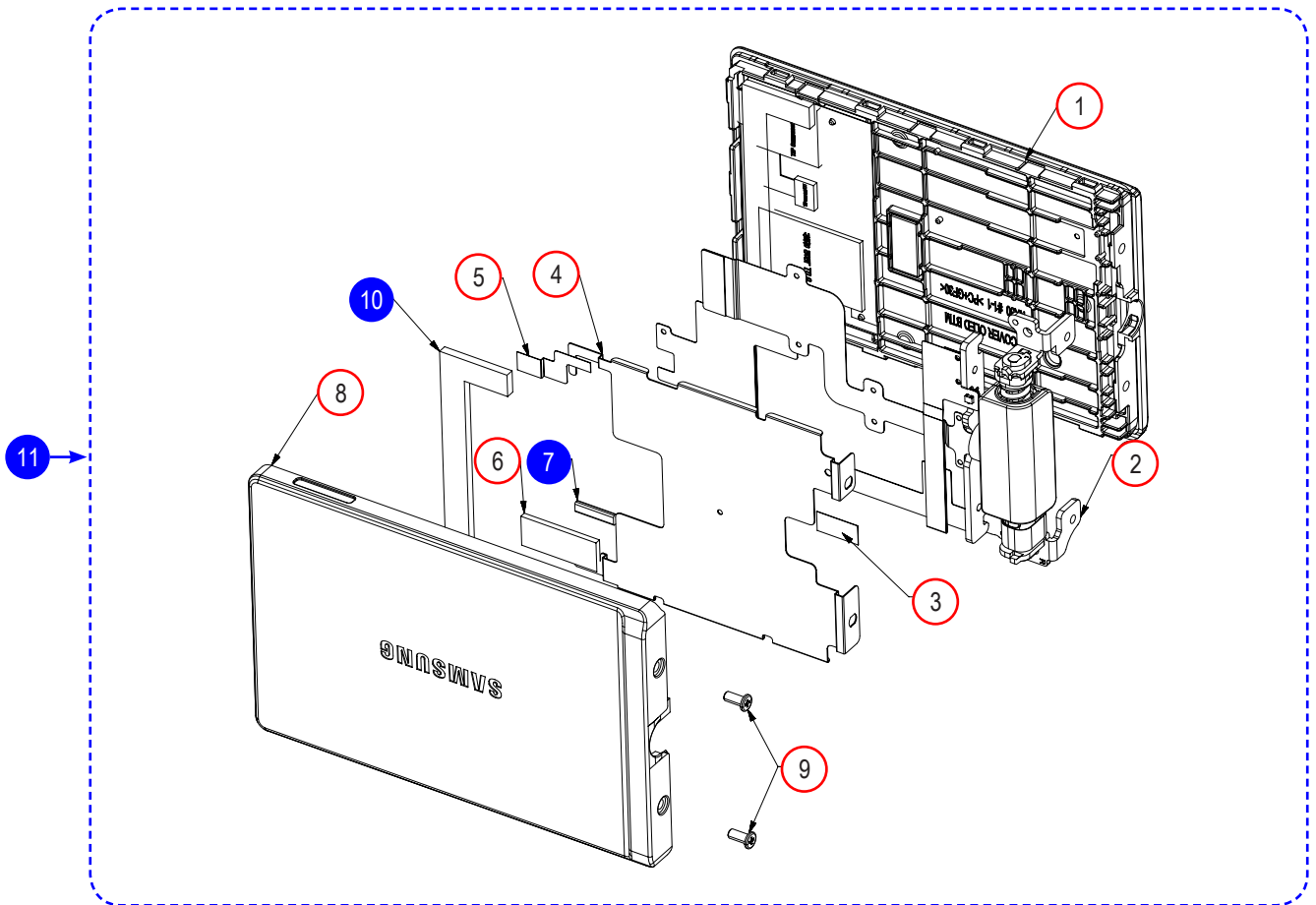
## 9-11 ASSY COVER-BACK



| Loc. No. | Parts No.   | Description                    | Qty | Available | Remark |
|----------|-------------|--------------------------------|-----|-----------|--------|
| 1        | AD97-24074A | ASSY COVER-COVER BACK SUB-NX30 | 1   | SA        |        |
| 2        | AD97-24084A | ASSY COVER-BACK INNER-NX30     | 1   | SA        |        |
| 3        | AD97-24109A | ASSY-WHEEL KEY_NX30            | 1   | SA        |        |
| 4        | AD97-24183A | ASSY-FRAME MAIN                | 1   | SA        |        |
| 5        | AD97-24067A | ASSY-OLED HINGE-NX30           | 1   | SNA       |        |
| 6        | AD66-01010A | LEVER-LOCK LCK                 | 1   | SA        |        |
| 7        | AD63-07855A | SHEET-HINGE BTOB               | 1   | SA        |        |
| 8        | AD63-07558A | SHEET-MAIN PCB_NX300           | 1   | SA        |        |
| 9        | AD63-07889A | SHEET-HINGE WIFI               | 1   | SNA       |        |
| 10       | 6003-001796 | SCREW-TAPTYPE(M1.7XL5.0(NI))   | 2   | SA        |        |
| 11       | 6003-001659 | SCREW-TAPTYPE(M1.4XL4.0(BLK))  | 5   | SA        |        |
| 12       | AD63-07890A | GASKET-COVER                   | 1   | SNA       |        |
| 13       | AD97-24070A | ASSY COVER-BACK-NX30           |     | SNA       |        |



## 9-12 ASSY-OLED HINGE



| Loc. No. | Parts No.   | Description                 | Qty | Available | Remark |
|----------|-------------|-----------------------------|-----|-----------|--------|
| 1        | AD97-24207A | ASSY-OLED BOTTOM COVER_NX30 | 1   | SA        |        |
| 2        | AD97-24198A | ASSY-HINGE COVER_NX30       | 1   | SA        |        |
| 3        | AD63-07074A | SHEET-MR                    | 1   | SA        |        |
| 4        | AD61-06302A | PLATE-OLED COVER            | 1   | SA        |        |
| 5        | AD63-07857A | SHEET-PLATE TSP             | 1   | SA        |        |
| 6        | AD63-06266A | CUSHION-BACK KEY            | 1   | SA        |        |
| 7        | AD63-02033A | CUSHION SHIELD FORM-E       | 1   | SNA       |        |
| 8        | AD63-07733A | COVER-OLED TOP              | 1   | SA        |        |
| 9        | 6001-002316 | SCREW-MACHINE;PH,+,M1.7,L4  | 2   | SA        |        |
| 10       | AD63-07883A | CUSHION OLED                | 1   | SNA       |        |
| 11       | AD97-24067A | ASSY-OLED HINGE-NX30        |     | SNA       |        |



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|------------------------------|---|
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| E.Asia, W.Asia, China, Japan | <a href="https://gspn2.samsungsportal.com">https://gspn2.samsungsportal.com</a> |
| N.America, S.America         | <a href="https://gspn3.samsungsportal.com">https://gspn3.samsungsportal.com</a> |

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Printed in Korea. 2014  
Code No : EC-NX30