



DIGITAL CAMERA

DV300/DV300F/DV305/DV305F

SERVICE

Manual

DIGITAL CAMERA



CONTENTS

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

Contents

1. Repair information

1-1 Customer satisfaction statement.....	1-1
1-2 Warranty and repair service information.....	1-1
1-3 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	2-5
2-5 About the battery	2-6

3. Disassembly and reassembly

3-1 Screw parts list.....	3-1
3-2 Disassembly of main unit	3-2
3-3 Disassembly of barrel	3-10
3-4 Reassembly of barrel	3-17

4. PCB diagrams

4-1 MAIN PCB	4-1
4-2 TOP PCB.....	4-2
4-3 CCD FPCB	4-2

5. Block diagram

Contents

6. Firmware update

6-1 Product reset.....	6-1
6-2 Version check.....	6-3
6-3 Upgrade.....	6-4

7. Adjustment

7-1 Basic guide for adjustment.....	7-1
7-2 Lens shading ADJ.....	7-3
7-3 Shutter close time ADJ.....	7-4
7-4 Flash ADJ.....	7-5
7-5 Punt ADJ.....	7-6
7-6 Vertical line ADJ.....	7-8
7-7 CCD defect ADJ.....	7-9
7-8 OIS centering ADJ.....	7-9
7-9 Serial number writing process.....	7-10

8. Exploded view and parts list

8-1 BODY ASSEMBLY.....	8-1
8-2 MAIN SUB ASSEMBLY.....	8-2
8-3 MIDDLE COVER ASSEMBLY.....	8-3
8-4 FRONT COVER ASSEMBLY.....	8-5
8-5 BACK COVER ASSEMBLY.....	8-6
8-6 BARREL ASSEMBLY.....	8-7
8-7 PACKING ITEM.....	8-10

1. Repair information

1-1 Customer satisfaction statement



We hold ourselves to the highest standards of customer satisfaction and service.

- Combining perfect technical solutions with a customer-oriented approach is our top priority.
- We treat our customers we serve with kindness, loyalty, respect and dignity.
- We are committed to earn customers' trust continuously through excellence in repair solutions.
- We keep our promises and commitments to our customers.
- Committed to quick and easy resolution of all support issues, we deliver industry-leading response times.

[Guide]

We listen carefully to our customers' requirements and always find an optimum solution for their needs.

We are committed to your satisfaction and have procedures in place to provide you with a fair, timely and effective means to resolve problems. It combines industry leading preventive assistance with responsive support that helps us address problems quickly and effectively.

We will continuously maintain and improve our services to satisfy the needs of our customers.

1-2 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.

<Table. 1-2 Warranty Period for components>

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	-
	Required for essential repair within one month after the purchase		Replace the product or repair at free of charge	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 (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

1-3 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 Precaution for disassembly and reassembly>

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) IR CUT Filter 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

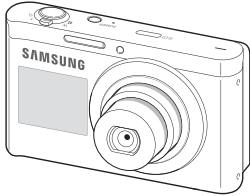
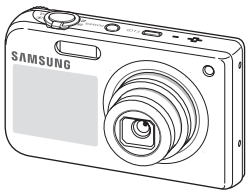
2-1 Specifications

<Table. 2-1 Specifications>

Image Sensor	1/2.3" (Approx. 7.76 mm) CCD
Effective pixels	Approx. 16.1 mega-pixels
Total pixels	Approx. 16.4 mega-pixels
Wight	4.23 oz (without battery and memory card)
Dimensions	3.75 X 2.22 X 0.72in (without protrusions)
LCD	TFT LCD <ul style="list-style-type: none"> • Main display: 3.0" (7.62 cm) 460K • Front display: 1.5" (3.8 cm) 61K
Zoom	<ul style="list-style-type: none"> • Still image mode: 1.0–5.0X (Optical zoom X Digital zoom: 25.0X, Optical zoom X Intelli zoom: 10.0X)
Shutter Speeds	<ul style="list-style-type: none"> • Auto: 1/8–1/2,000 sec. • Program: 1–1/2,000 sec. • Night: 16–1/2,000 sec. • Fireworks: 2 sec.
Flash Range	<ul style="list-style-type: none"> • Wide: 0.2–4.1 m (ISO Auto) • Tele: 0.5–1.6 m (ISO Auto)
ISO Range	Auto, ISO 80, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200
Focal Length	Samsung Lens f = 4.5–22.5 mm (35 mm film equivalent: 25–125 mm)
Storage	<ul style="list-style-type: none"> • Internal memory: Approx. 16 MB • External memory (Optional): <ul style="list-style-type: none"> – microSD card (1–2 GB guaranteed), – microSDHC card (up to 32 GB guaranteed), – microSDXC card (up to 64 GB guaranteed)
Image Stabilization	Optical Image Stabilization (OIS)
Wireless network (DV300F/DV305F only)	Social Sharing, Email, Mobile Link, Remote Viewfinder, Cloud, Auto Backup, TV Link, Authentication Browser, Wi-Fi Direct
Battery Source	Lithium-ion battery (BP88A, 880 mAh)
Connector type	Micro USB (5 pin)

2-2 Product comparison

<Table. 2-2 Product comparison>

Model	DV300/DV300F/DV305/DV305F	PL170/PL171
Specs		
Product image		
Image Sensor	1/2.3" (Approx. 7.76 mm) CCD	1/2.3" (Approx. 7.76 mm) CCD
Effective pixels	Approx. 16.1 mega-pixels	Approx. 16.1 mega-pixels
Total pixels	Approx. 16.4 mega-pixels	Approx. 16.4 mega-pixels
Wight	4.23 oz (without battery and memory card)	3.99 oz (without battery and memory card)
Dimensions	3.75 X 2.22 X 0.72 in (without protrusions)	3.75 X 2.26 X 0.75 in (without protrusions)
LCD	TFT LCD • Main display: 3.0" (7.62 cm) 460K • Front display: 1.5" (3.8 cm) 61K	TFT LCD • Main display: 3.0" (7.6 cm) QVGA (230K) • Front display: 1.5" (3.8 cm) 61 K TFT LCD
Zoom	• Still image mode: 1.0–5.0X (Optical zoom X Digital zoom: 25.0X, Optical zoom X Intelli zoom: 10.0X)	• Still image mode: 1.0X-5.0X (Optical zoom X Digital zoom: 25.0X) • Playback mode: 1.0X-14.4X
Shutter Speeds	• Auto: 1/8–1/2,000 sec. • Program: 1–1/2,000 sec. • Night: 16–1/2,000 sec. • Fireworks: 2 sec.	• Auto: 1/8-1/2,000 sec. • Program: 1-1/2,000 sec. • Night: 8-1/2,000 sec. • Fireworks: 2 sec.
ISO Range	Auto, ISO 80, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200	Auto, ISO 80, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200
Focal Length	Samsung Lens f = 4.5–22.5 mm (35 mm film equivalent: 25–125 mm)	Samsung Lens f = 4.7 mm-23.5 mm (35 mm film equivalent: 26 mm-130 mm)
Storage	• Internal memory: Approx. 16 MB • External memory (Optional): -- microSD card (1–2 GB guaranteed) -- microSDHC card (up to 32 GB guaranteed) -- microSDXC card (up to 64 GB guaranteed)	• Internal memory: Approx. 30 MB • External memory (Optional): -- microSD card (up to 2 GB guaranteed) -- microSDHC card (up to 8 GB guaranteed)
Image Stabilization	Optical Image Stabilization (OIS)	DUAL IS [Optical Image Stabilization (OIS) + Digital Image Stabilization (DIS)]
Wireless network (DV300F/DV305F only)	Social Sharing, Email, Mobile Link, Remote Viewfinder, Cloud, Auto Backup, TV Link, Authentication Browser, Wi-Fi Direct	-
Battery Source	Lithium-ion battery (BP88A, 880 mAh)	Lithium-ion battery (BP70A, 740 mAh: Min 700 mAh)

2-3 Accessories information

<Table. 2-3 Packing items information>

	image	Description	Parts No.	
Packing items		Camera	DV300/DV300F/ DV305/DV305F	
		AC adapter	AD5055_EXP	AD44-00183A
			AD5055_USA	AD44-00179A
			AD5055_UK	AD44-00182A
			AD5055_AUS	AD44-00185A
			AD5055_ARG	AD44-00181A
			AD5055_BRA	AD44-00180A
		AD5055_CHI	AD44-00184A	
		USB cable 	CHI	GH39-01352A
			EXP	AD39-00191A
	Battery		AD43-00203A	
	Strap	BLACK	AD63-02604A	
		SILVER	AD63-02596A	
	User Manual CD-ROM		AD46-00427A	
	Quick Start Guide	DV300_EUR1	AD68-06834A	
		DV300_EUR2	AD68-06835A	
		DV300_EUR3	AD68-06836A	
		DV300_ASIA	AD68-06837A	
		DV300_S.CHI	AD68-06833A	
		DV300_CANADA	AD68-06838A	
		DV300_SEA	AD68-06839A	
		DV300_TUR	AD68-06840A	
	DV300_SEDA	AD68-06876A		









<Table. 2-4 Optional items information>

	image	Description		Parts No.
Optional items		Camera case	CC9S70B	AD69-03285A
			CC9S71N	AD69-03284A
			CC9S30B	AD69-03283A
			CC9U21B/P	AD69-02964A
				AD69-03010A
			CC9U11B	AD69-02397B
			A/V cable 	AD39-00191A
	Memory card	2G	1109-001446	
		4G	1109-001420	
		8G	1109-001418	

2-4 About the memory card

The memory capacity may differ depending on shooting scenes or shooting conditions. These capacities are based on a 1 GB microSD card:

<Table. 2-5 Memory card capacity>

Size		Super Fine	Fine	Normal	
P h o t o s		4608 X 3456	105	206	303
		4608 X 3072	117	230	337
		4608 X 2592	140	275	406
		3648 X 2736	166	323	469
		2592 X 1944	319	607	858
		1984 X 1488	522	954	1,336
		1920 X 1080	742	1,336	1,878
		1024 X 768	1,582	2,505	3,006

Size		30 FPS	15 FPS	
*V i d e o s	HD	1280 X 720	Approx. 14' 55"	Approx. 28' 54"
	VGA	640 X 480	Approx. 34' 55"	Approx. 65' 40"
	QVGA	320 X 240	Approx. 134' 34"	Approx. 231' 14"
	240 WEB	For Sharing (DV300F/DV305F only)	Approx. 134' 34"	Approx. 231' 14"

* 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.

2-5 About the battery

<Table. 2-6 Battery specifications>

Specification	Description
Model	BP88A
Type	Lithium-ion battery
Cell capacity	880 mAh
Voltage	3.7 V
Charging time *(when the camera is switched off)	Approx. 210 min

* Charging the battery by connecting it to a computer may take longer.

<Table. 2-5 Battery life>

Average shooting time/ Number of photos		Test conditions (when the battery is fully charged)
Photos	Approx. 130 min/ Approx. 260 photos	<p>The battery life was measured under the following conditions: in Program mode, in darkness, 16M resolution, Fine quality, OIS on.</p> <ol style="list-style-type: none"> 1. Set the flash option to Fill in, take a single shot, and zoom in or out. 2. Set the flash option to Off, take a single shot, and zoom in or out. 3. Perform steps 1 and 2, waiting 30 seconds between each step. Repeat the process for 5 minutes, and then turn off the camera for 1 minute. 4. Repeat steps 1 to 3.
Videos	Approx. 80 min	Record videos at HD resolution and 30 FPS.

- The figures above are measured by Samsung's standards. Your results may differ, depending on your actual usage.
- Several videos were recorded in succession to determine the total recording time.
- When using network functions, the battery will be depleted more quickly.

3. Disassembly and reassembly

3-1 Screw parts list

<Table. 3-1 Screw Information>

PAGE NO.	TYPE	CODE	QTY
3-2	SCREW(M1.4X4.0 MACHINE)	6001-002159	5
3-5	SCREW(M1.4X4.0 TAP)	6003-001739	3
3-10	SCREW TAPTYPE	6003-001369	3

3-2 Disassembly of main unit

1. Disassembly of BACK COVER ASSY.

(a) Remove the two SCREWS on the left side.



Fig. 3-1

(b) Remove the two SCREWS on the right side.



Fig. 3-2

(c) Remove the one SCREW on the bottom side.



Fig. 3-3

(d) Run a safe open pry tool around the join of LOCKING PART to release the BACK COVER as illustrated in image. Slightly wiggle the LOCKING PART to widen the gap. You'll have to apply a little force to remove it.



Fig. 3-4

(e) Remove the BACK COVER ASSY.

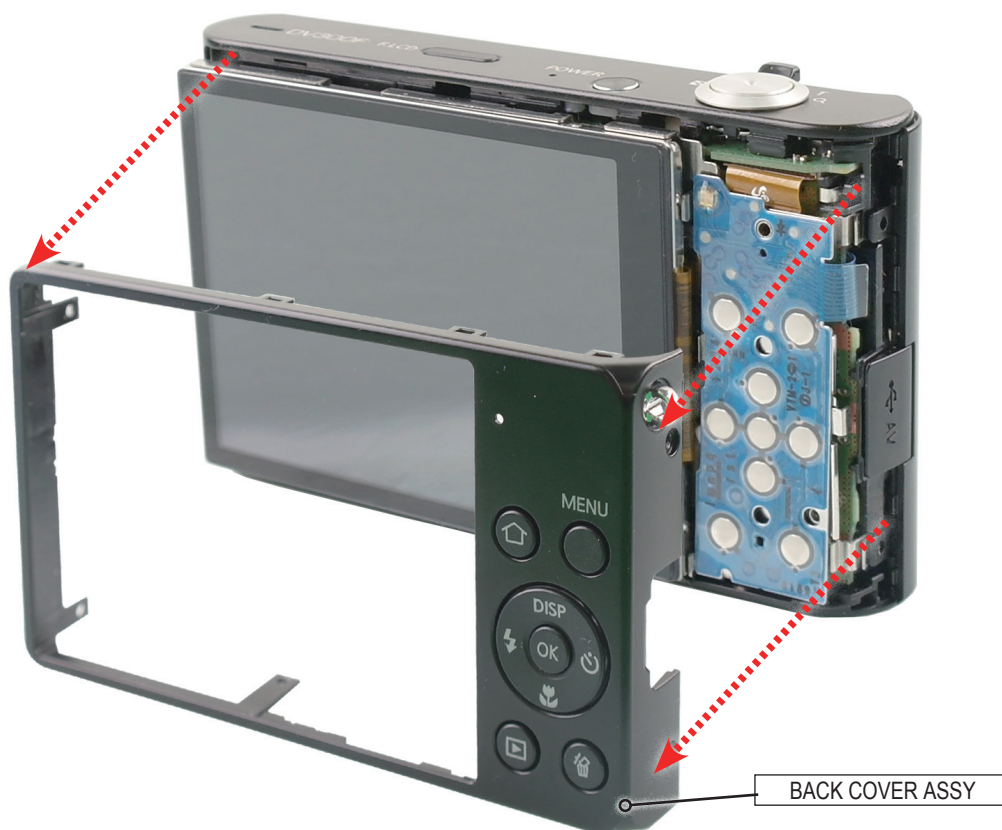


Fig. 3-5

2. Disassembly of KEY PCB ASSY.v

(a) Remove the FPCB as "Fig. A" and then lift up the KEY PCB ASSY in the direction of the arrow and remove it.

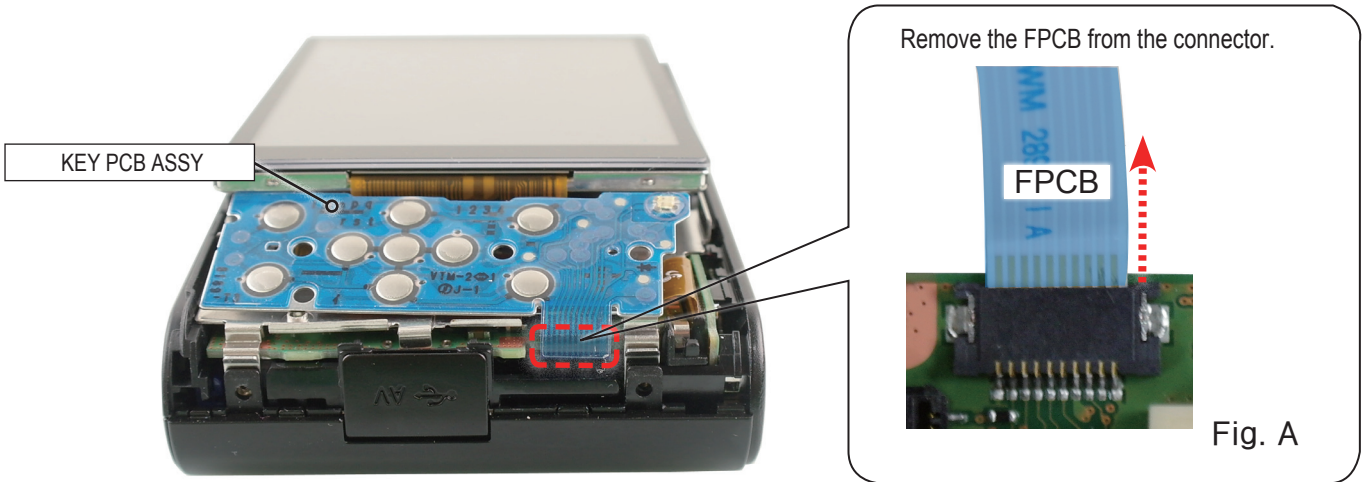


Fig 3-6

3. Disassembly of LCD ASSY.

(a) Remove the CONNECTOR as indicated " Fig. A" below and Then remove the LCD ASSY.

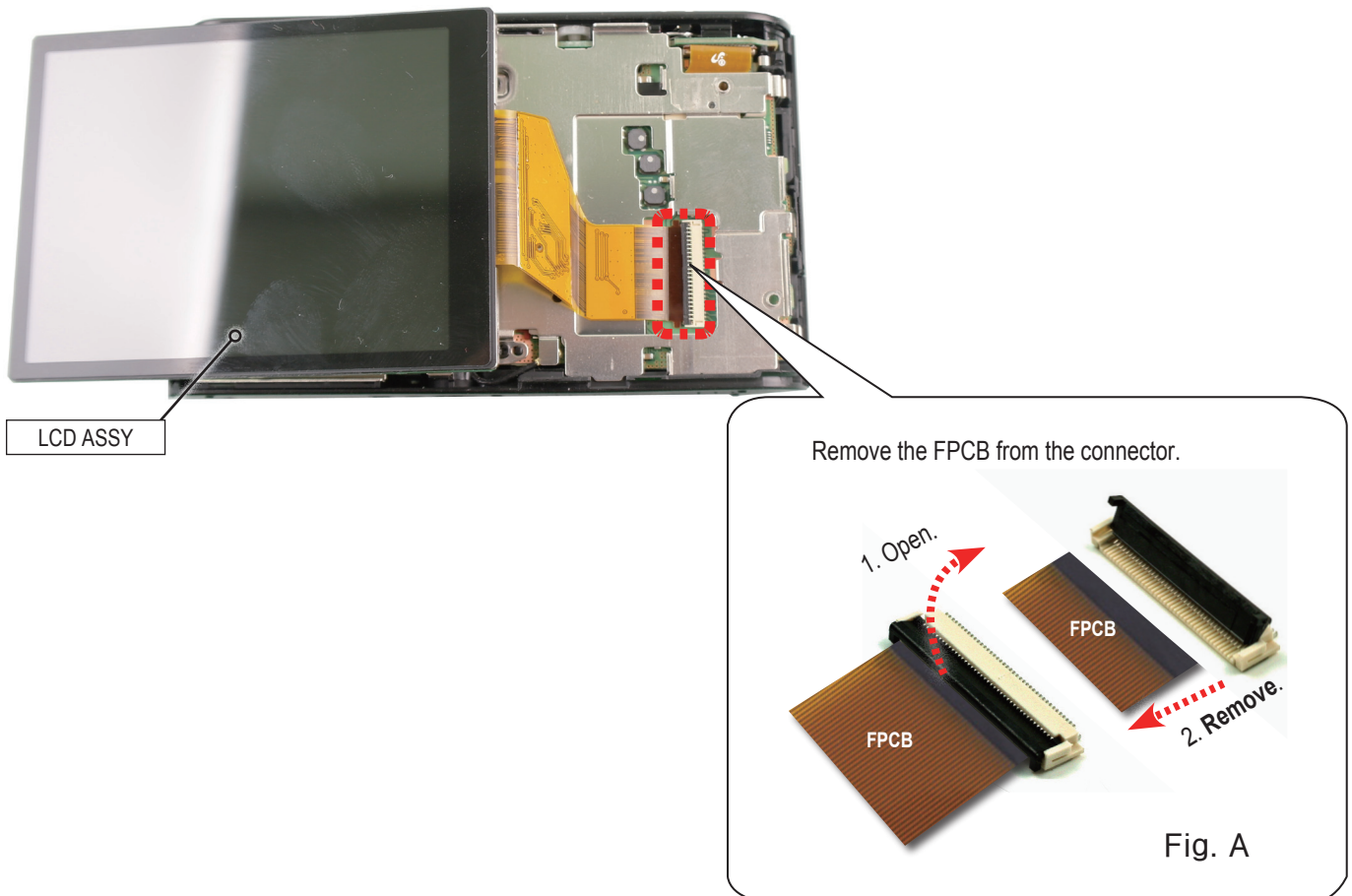


Fig 3-7

4. Disassembly of MAIN FRAME ASSY.

(a) Remove the three SCREWS.

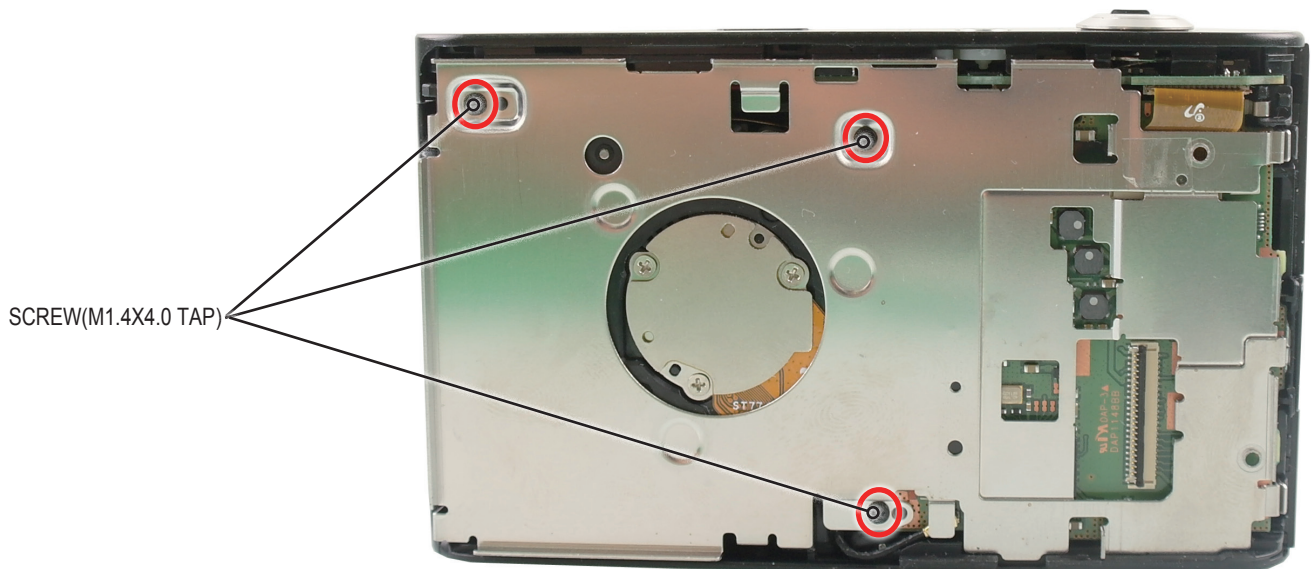


Fig 3-8

(b) Remove the MAIN FRAME ASSY.

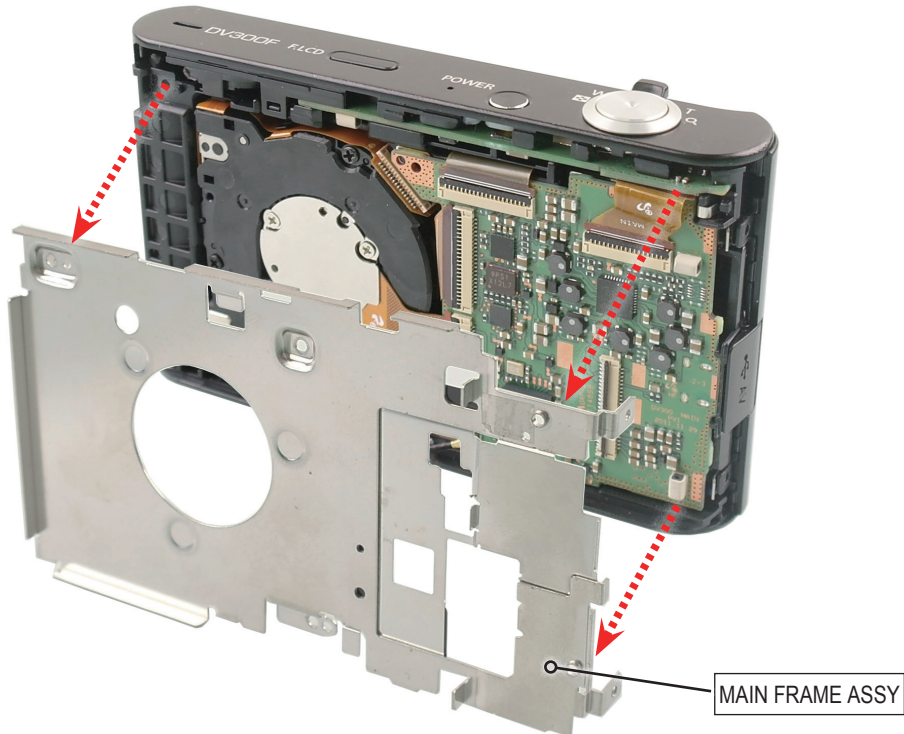


Fig 3-9

5. Disassembly of BARREL ASSY and MAIN PCB ASSY.

- (a) Remove the WI-FI antenna as indicated " Fig. A" below.
- (b) Remove the two CONNECTORs as indicated " Fig. B" below.

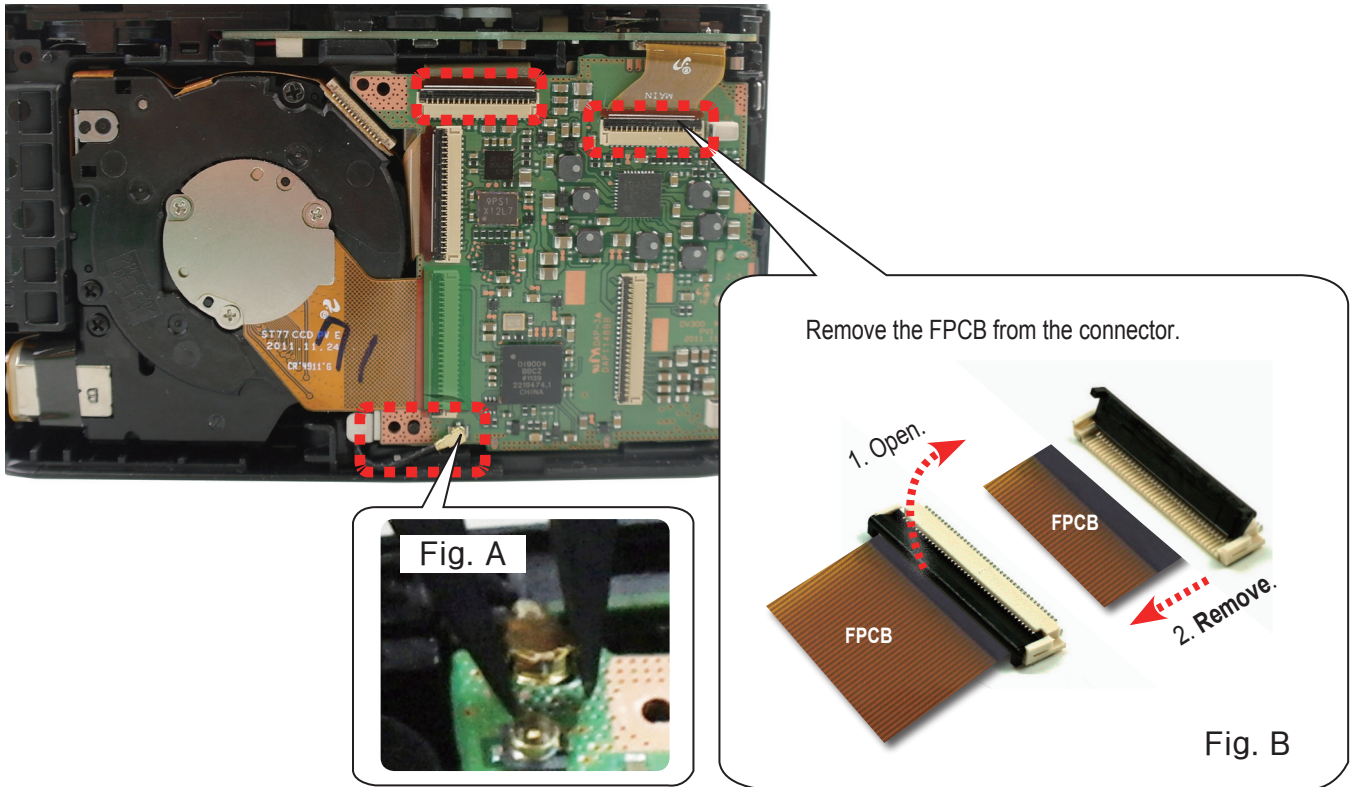


Fig 3-10

- (c) Remove the BARREL_MAIN PCB ASSY.

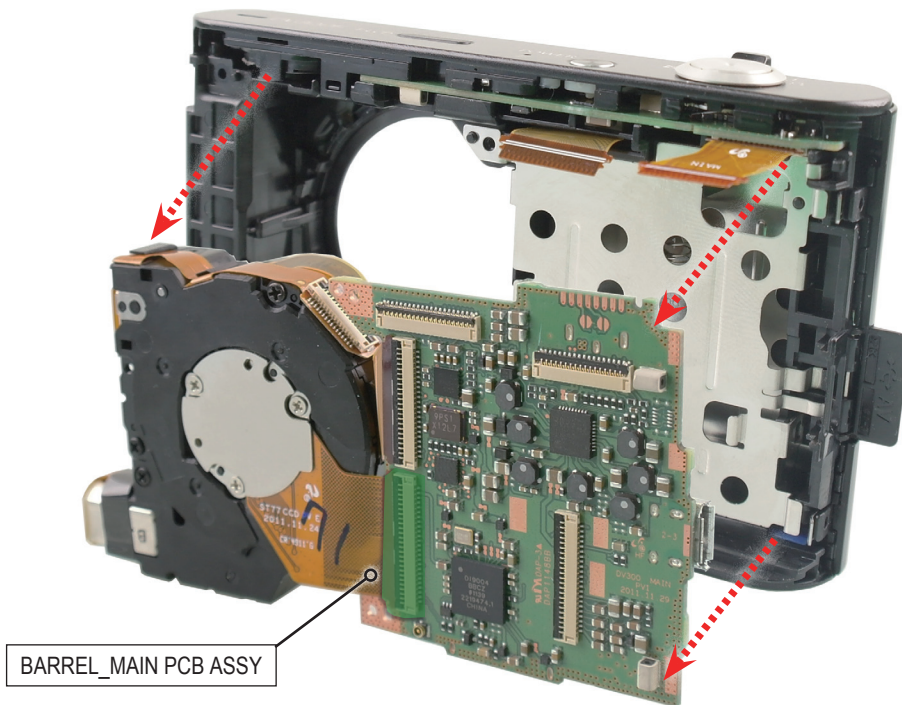


Fig 3-11

(d) Remove the TAPE(T/SHEET-KEY PCB) of part "a" and then two CONNECTORs as indicated " Fig. A" and removing it.

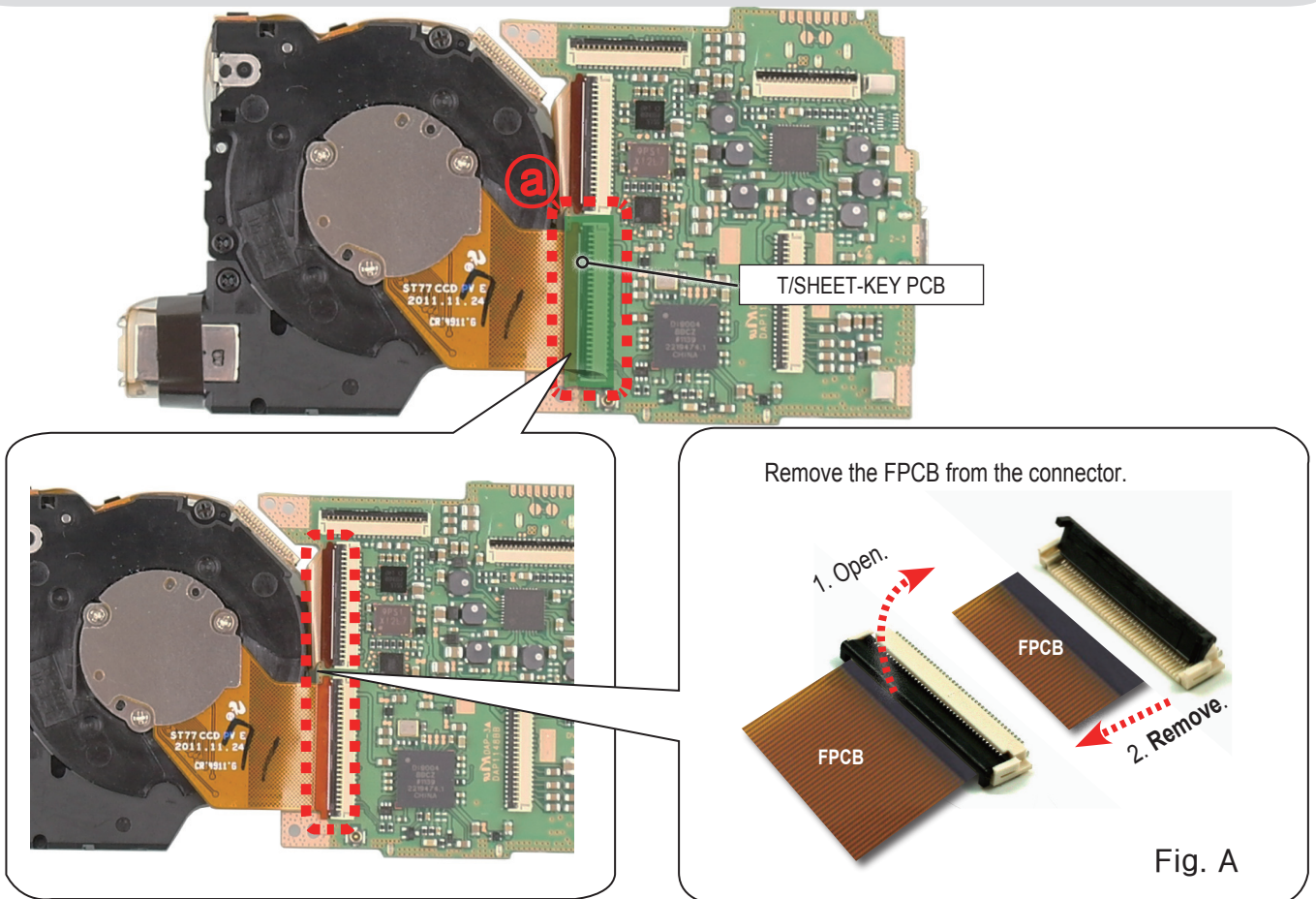


Fig 3-12

(e) Remove the BARREL ASSY with MAIN PCB.

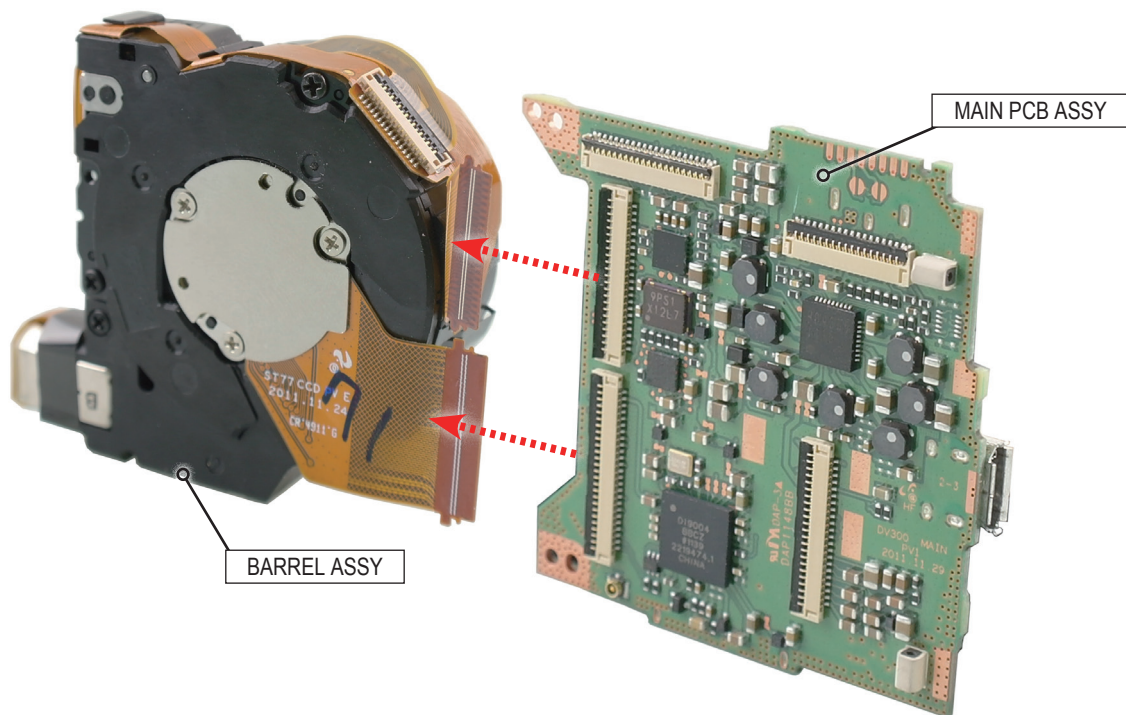


Fig 3-13

6. Disassembly of FRONT COVER ASSY.

(a) Remove the FRONT COVER ASSY.

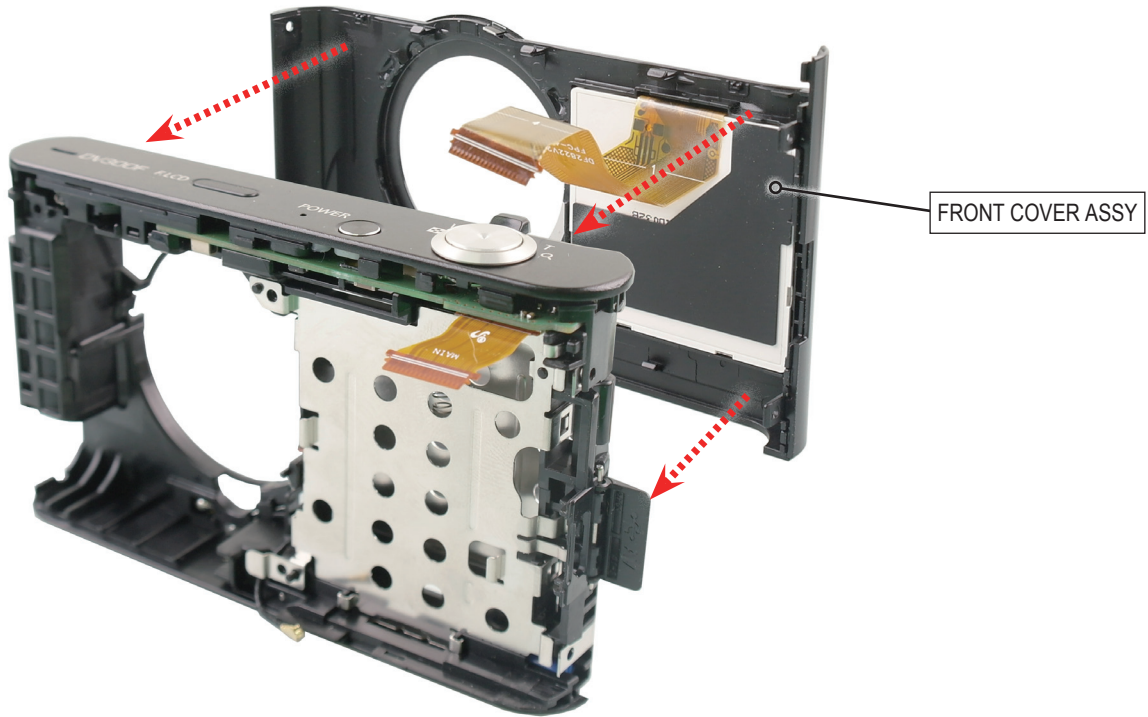


Fig 3-14

(b) Remove the SUB LCD.

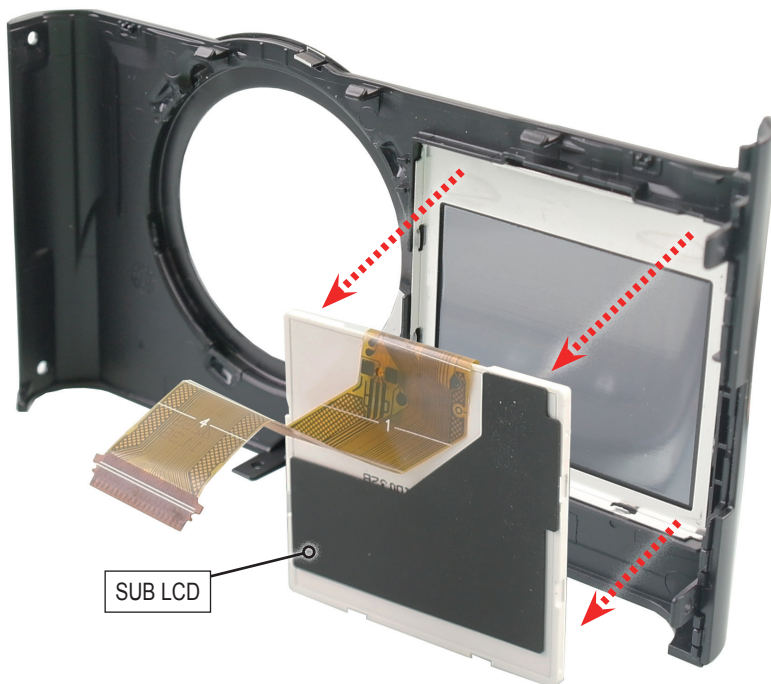


Fig 3-15

7. Disassembly of TOP COVER ASSY.

(a) Remove the two LOCKs of TOP COVER ASSY.

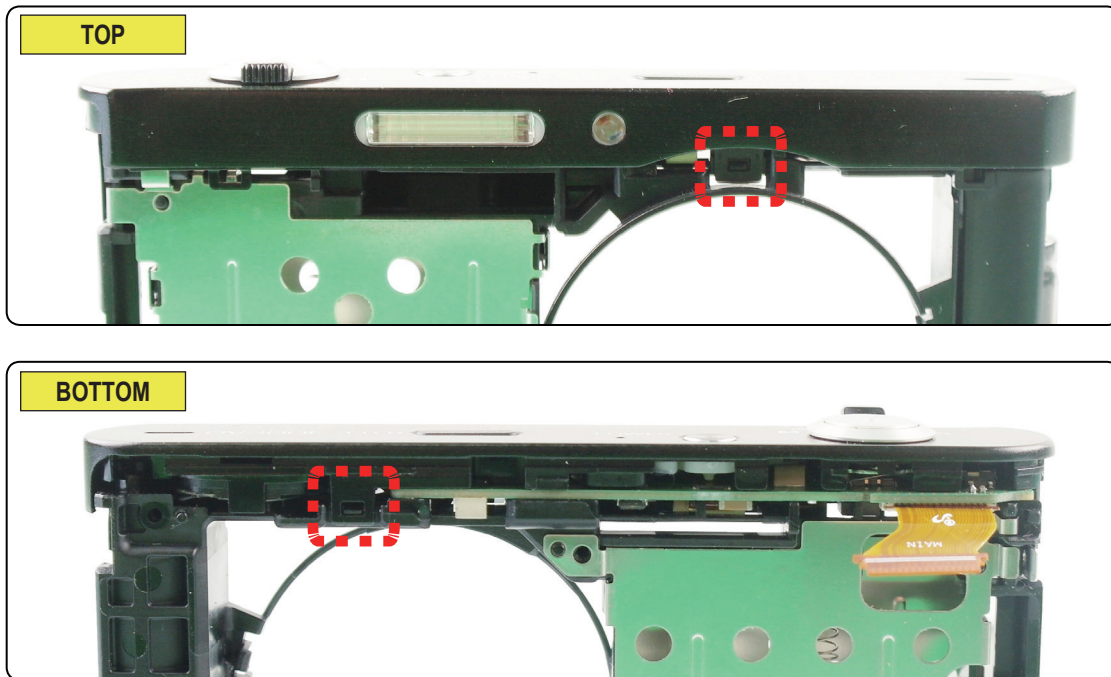


Fig 3-16

(b) Remove the TOP COVER ASSY.

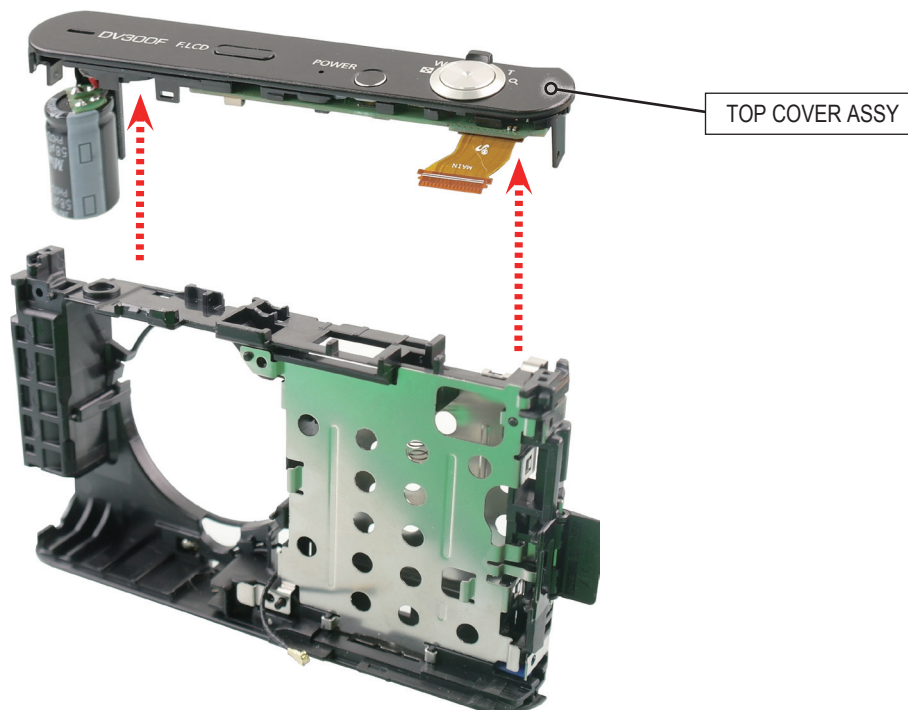


Fig 3-17

(c) Discharge.



CAUTION

It must be processed for discharge to the main condenser as shown in the below picture.



Fig 3-18

3-3 Disassembly of barrel

1. Disassembly of PCB FPC-CCD ASSY.

(a) Remove the three SCREWS from the PCB FPC-CCD ASSY.

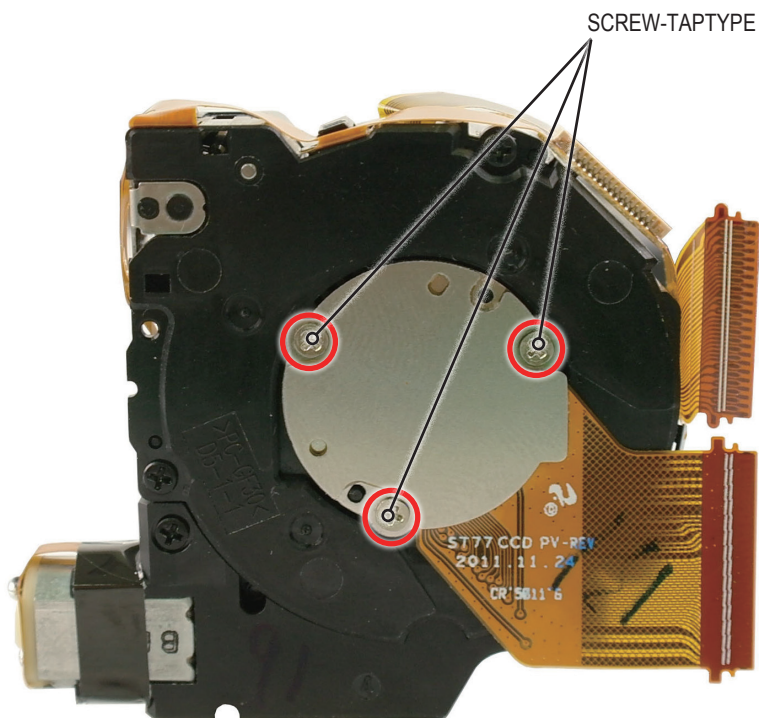


Fig 3-19

(b) Remove the PCB FPC-CCD ASSY.

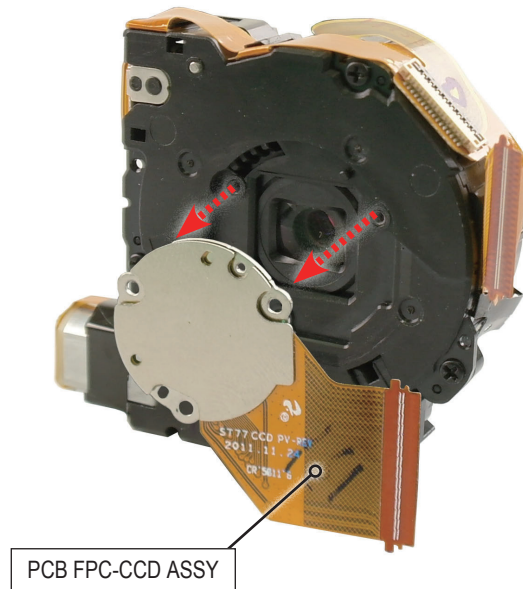


Fig 3-20

2. Disassembly of BARREL FPCB.

(a) Remove the five SCREWS.

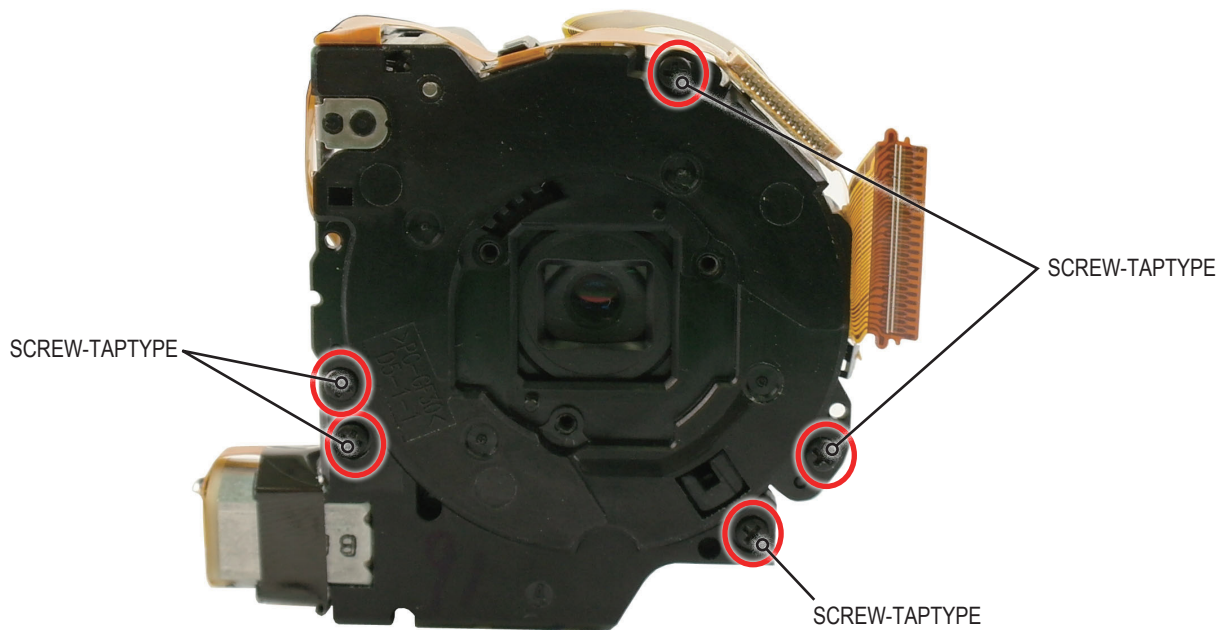


Fig 3-21

(b) Remove the one SCREW.

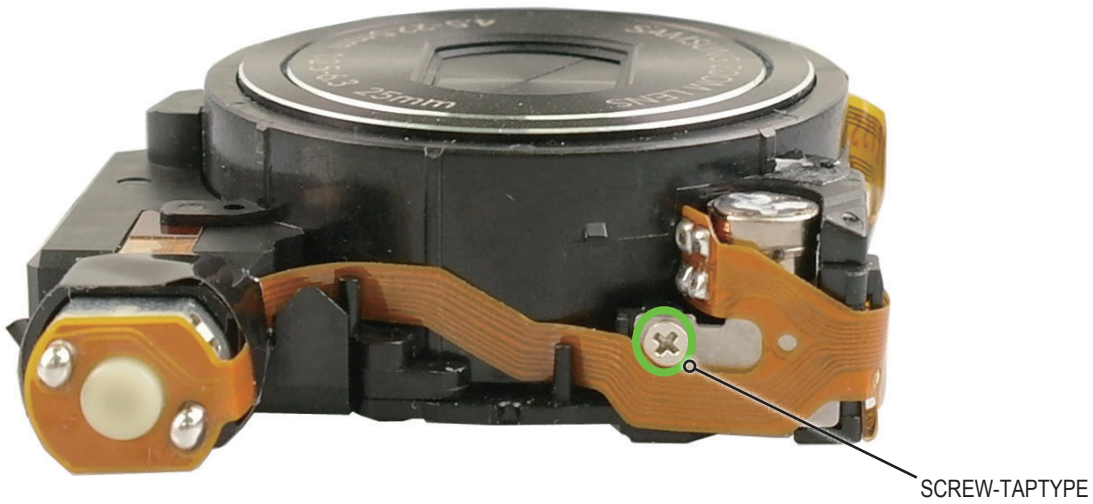


Fig 3-22

(c) Remove the FPCB from the CONNECTOR as indicated "Fig. A" below.
(d) Remove the fixed part by slightly move the FPCB as shown in the "Fig.B".

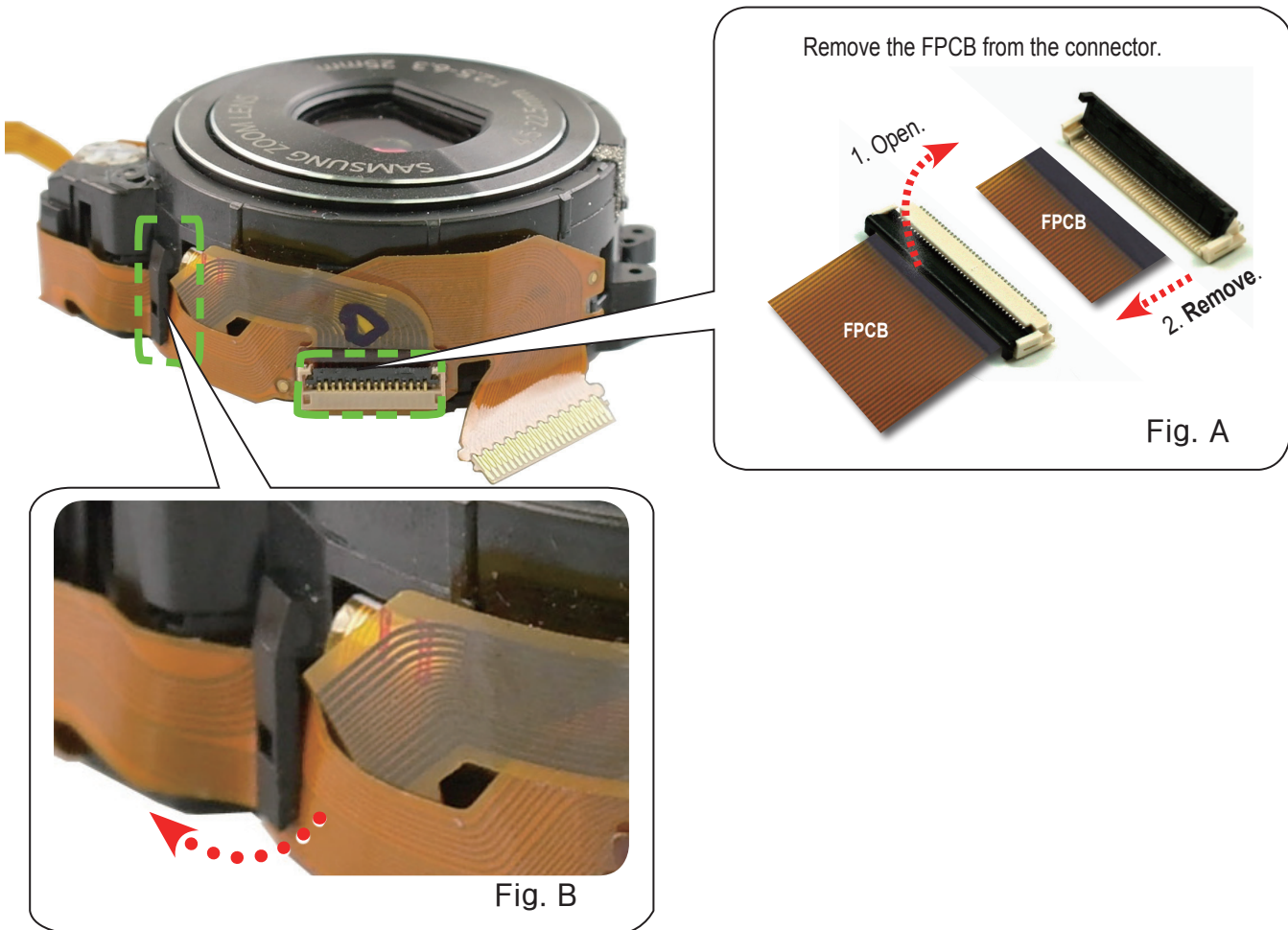


Fig 3-23

3. Disassembly of BARREL.

(a) Remove the ASSY LENS BASE-D5.

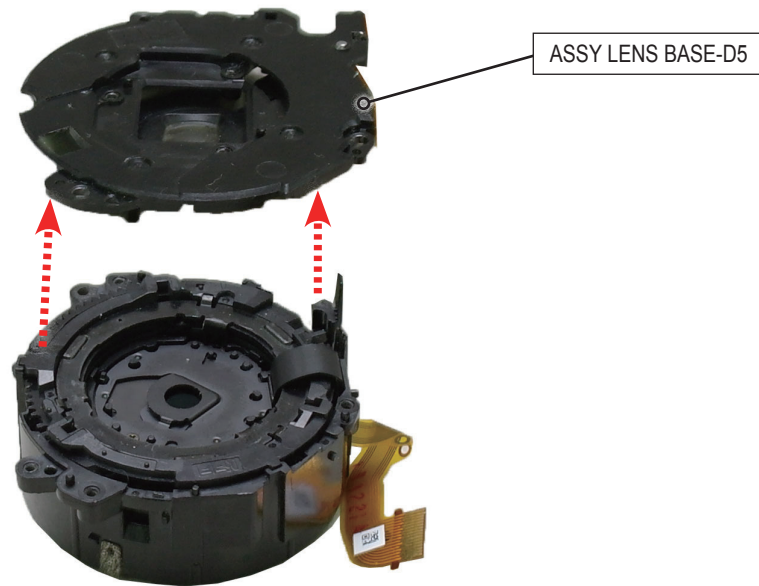


Fig 3-24

(b) Remove the FPCB from the slot "a" of ASSY SHUTTER-OIS as illustrated.



Caution

Make the BARREL by state of WIDE as illustrated and then remove the FPCB.
Be damage the FPCB If state to CLOSE of BARREL when remove the FPCB.

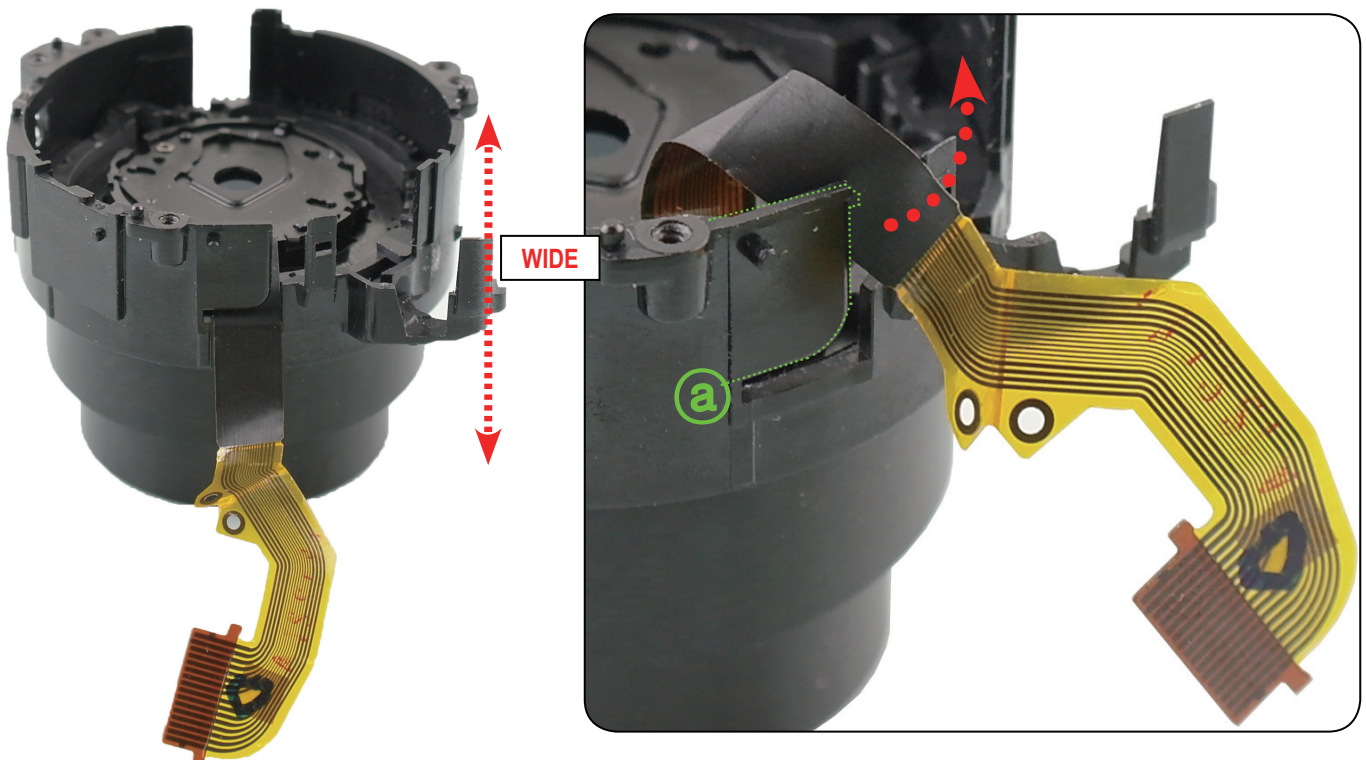


Fig 3-25

(c) Remove the BARREL BASE.

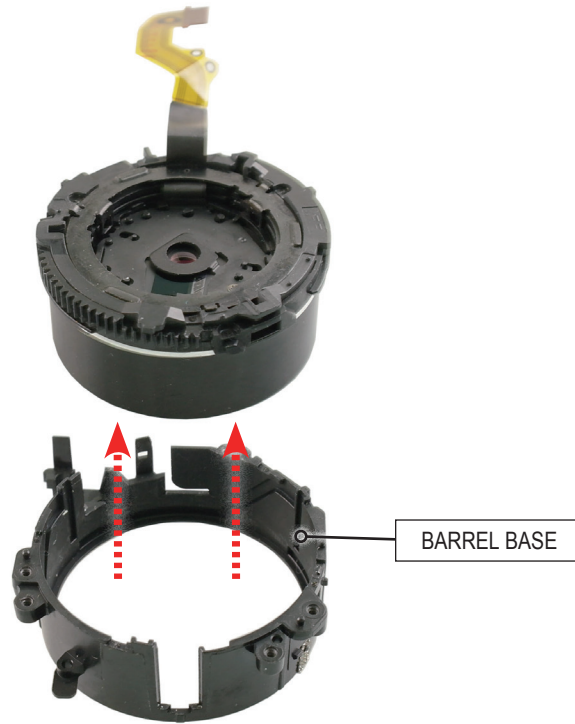


Fig 3-26

(d) Remove the BARREL-OUTER CAM.



Fig 3-27

(e) Remove the BARREL-OUTER GUIDE.

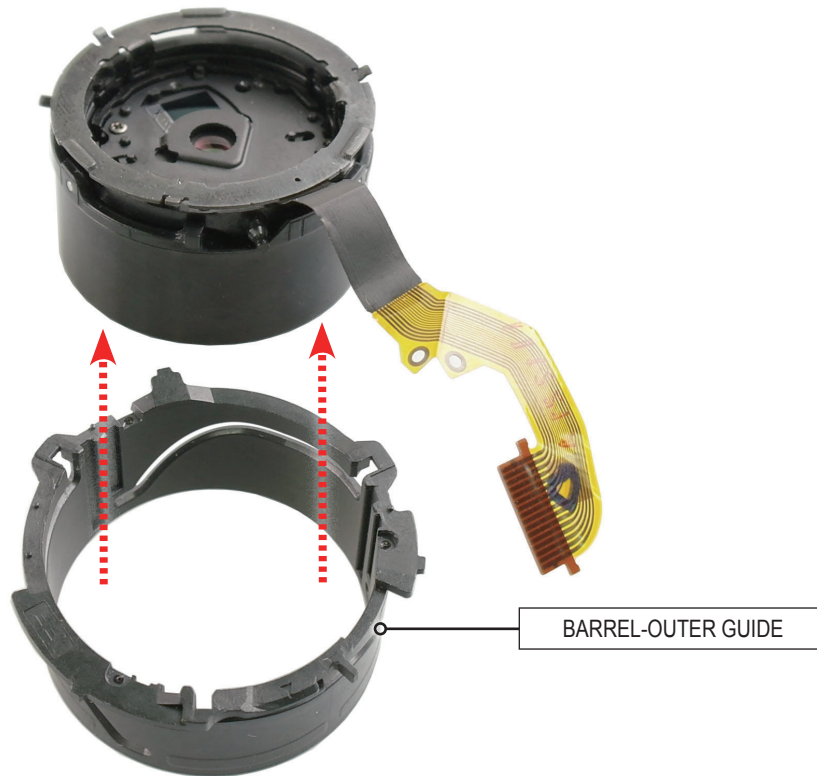


Fig 3-28

(f) Remove the BARREL-INNER CAM/ ASSY SUB BARREL-ZOOMRING and ASSY SUB BARREL-2ND_OIS/ PLATE-INNER GUIDE.

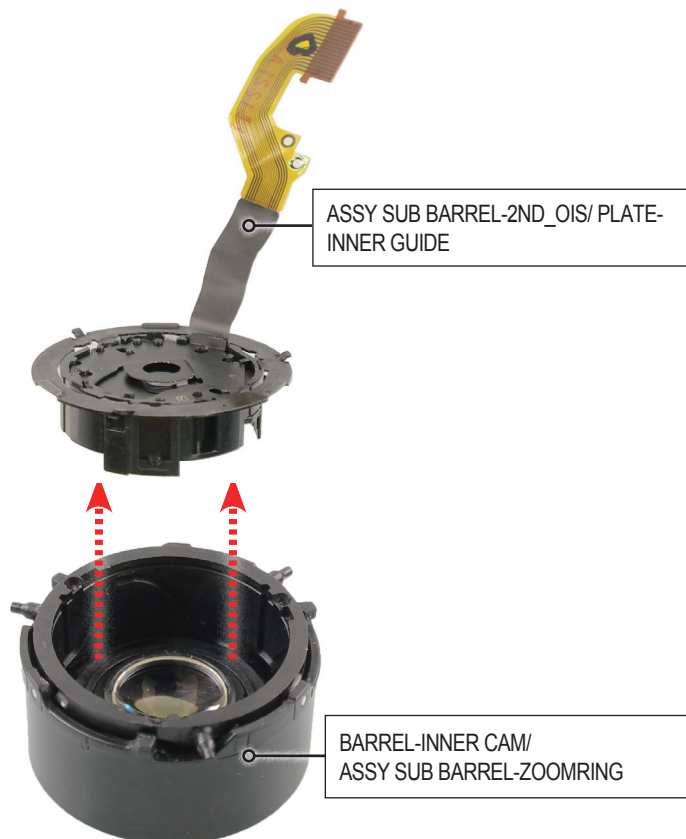


Fig 3-29

(g) Turn the ASSY SUB BARREL-ZOOMRING by clockwise direction as arrow and remove it.



Fig 3-30

(h) Remove the PLATE-INNER GUIDE.

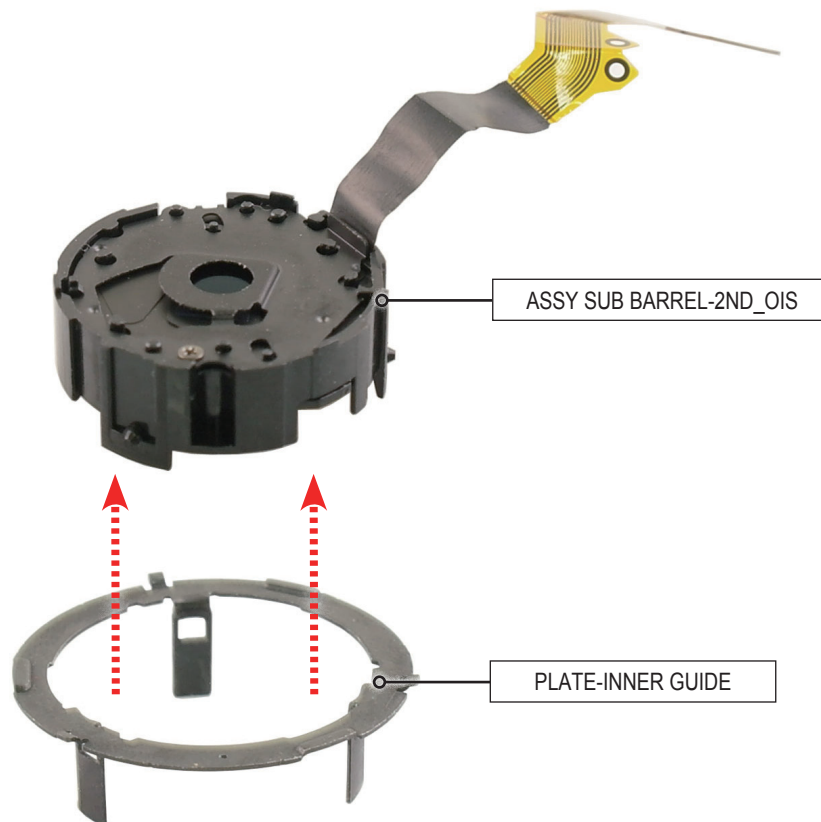


Fig 3-31

3-4 Reassembly of barrel

3-4-1 How to use the lubricant for anti-friction to the ASSY BARREL assembly.



- Anti-friction lubricant serves to prevent from the possibility of defective parts.
- Replacement parts are required to apply the lubricant before installing the ASSY BARREL.

! CAUTION

- HANARL is volatile product. Keep its container tightly covered.
- Make sure to shake the HANARL well first before you use it because it has a lot of particles in the bottom. (Otherwise it becomes ineffective.)
- Shake the HANARL until there are no lumps at all and apply it with brush.

1. Type of lubricant

<Table. 3-2 lubricant Information>

Component Name	Where to apply	Name of lubricant
Lens Base	Sliding contact surfaces of AF Lens.	Grease KG-513
Barrier assy Related Parts	Friction part and the pins	RX-410
AF motor Related Parts	Clip part and lead screw	NFH-743C
Others components	Inside and outside friction surface	HANARL UD-420K

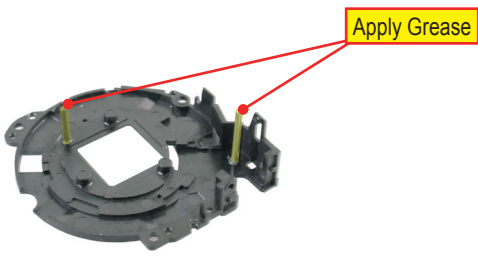
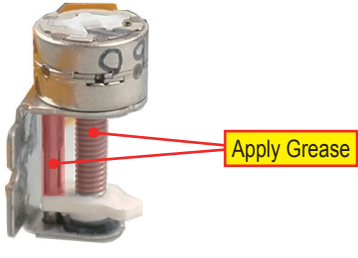
※ Lubricant brand name : Kanto Kasei (<http://www.kanto-kasei.co.jp/e/index.html>)

Please contact us (KIHYUNG CO.,LTD Distributor) by email if you are interested in purchasing.

e-mail : keeheung2000@yahoo.co.kr

2. Instructions

<Table. 3-3 Lubricating with Grease: Lens Base>

The pins that work AF Lens	Lead screw with clip of AF motor.
1) Apply the Grease KG-513 to the two pins of AF Lens. 2) Do not get any Grease on the AF lens. 3) Apply a light coating of the Grease KG-513 and make sure not to get any on the AF lens and other components.	1) Apply the Grease NFH-743C to the lead screw and clip of AF motor. 2) Apply the Grease RX-410 to the related parts fo BARRIER ASSY.
	

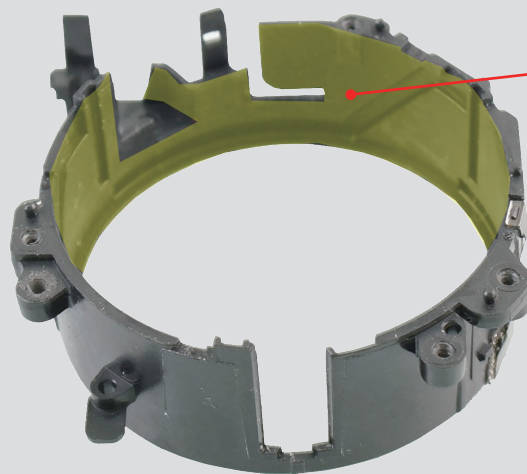
3. Lubricating with HANARL: Others components

Apply the HANARL to the Inside and outside friction surface of the components such as ZOOMRING, CAM BARREL, GUIDE PLATE as illustrated in image below.

CAUTION

- Make sure to shake the HANARL well first before you use it until there are no lumps.
- Apply the HANARL with a clean and good-quality brush, making sure the surface is clean.
- HANARL is volatile product. Keep its container tightly covered.

BARREL-BASE



Inside surface
thoroughly

ASSY SUB BARREL-OUTER CAM

Inside surface
thoroughly

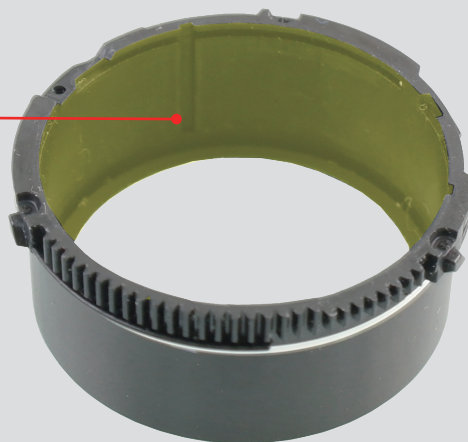


Fig. 3-32

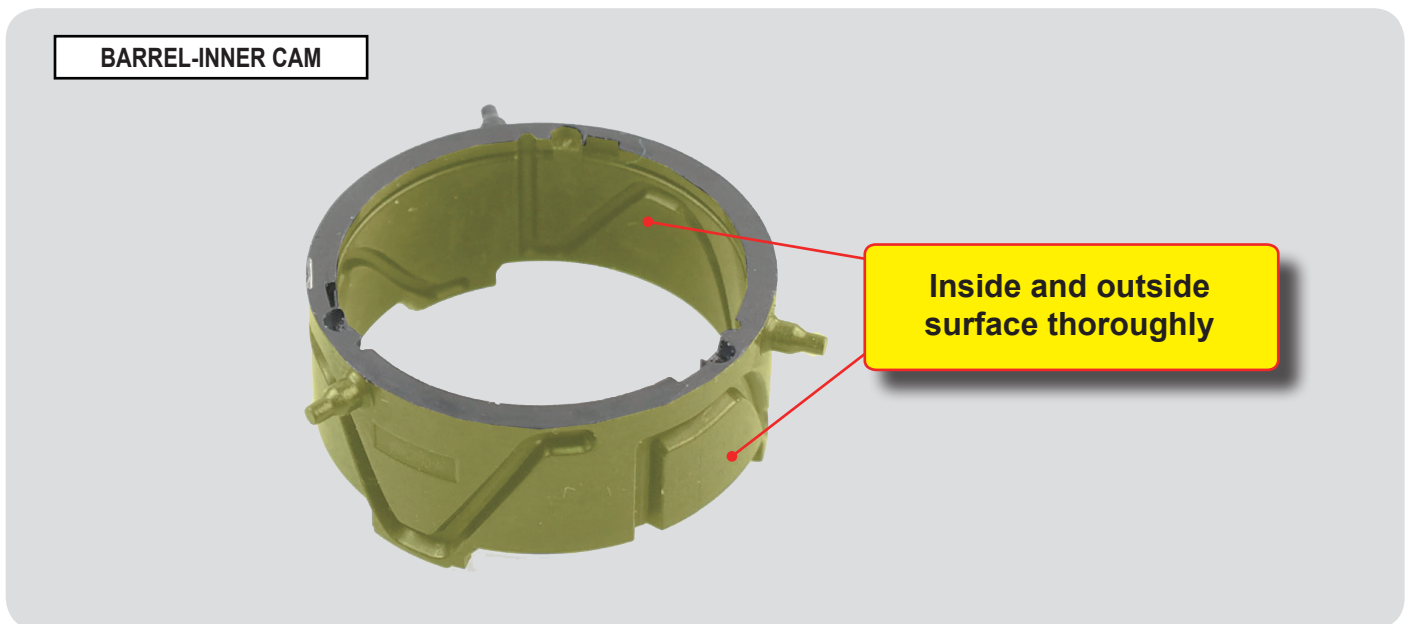
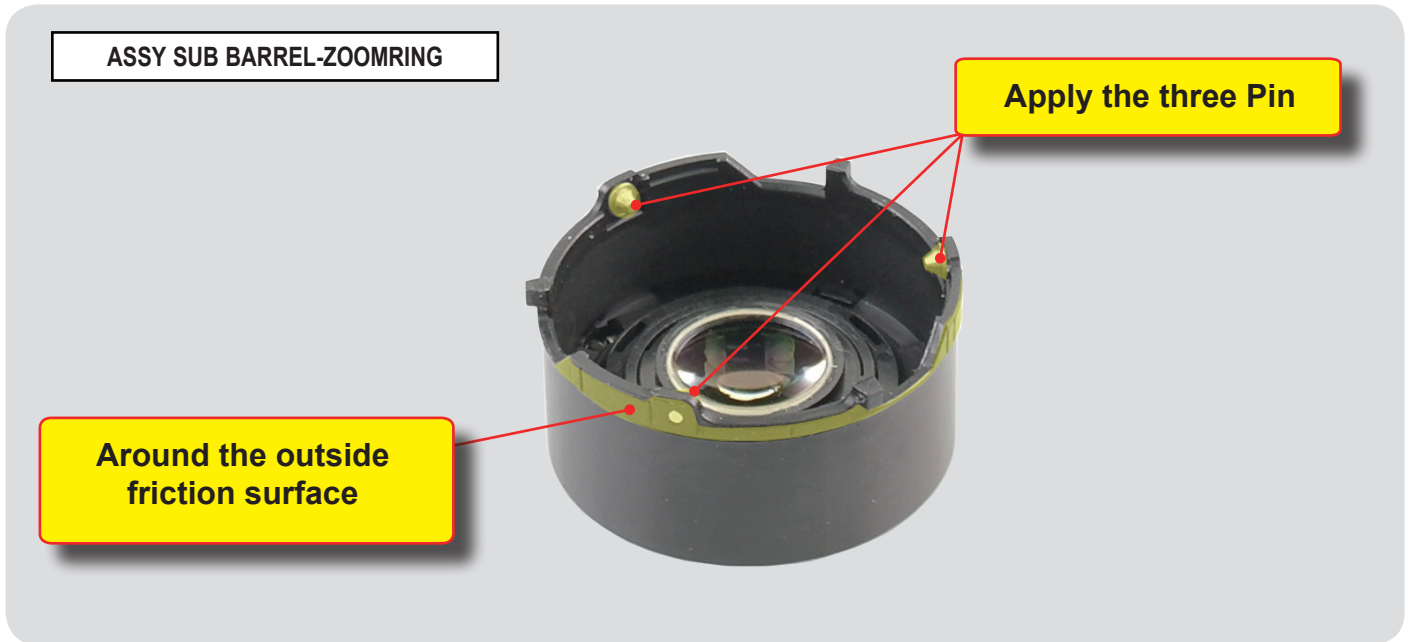


Fig. 3-33

3-4-2 Reassembly of BARREL ASSY.

1. Reassembly of BARREL.

(a) Assemble the ABARREL-INNER CAM and ASSY SUB BARREL-ZOOMRING by aligning the part "a" as illustrated and then turn the ASSY SUB BARREL-ZOOMRING by counterclockwise direction as arrow and assemble it.

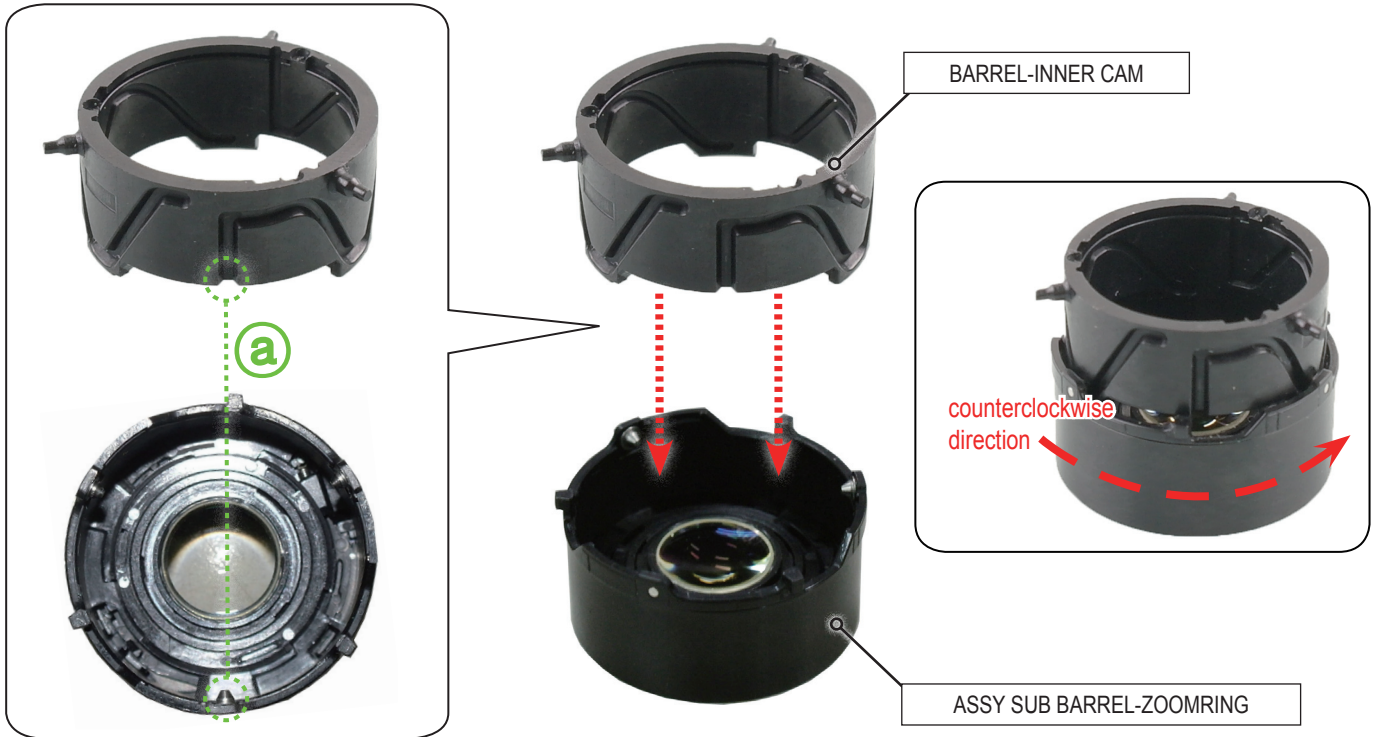


Fig 3-34

(b) Assemble the ASSY SUB BARREL-2ND_OIS and PLATE-INNER GUIDE by aligning the part "a" with "b" as illustrated. (Does not matter the Three location ① ~ ③.)

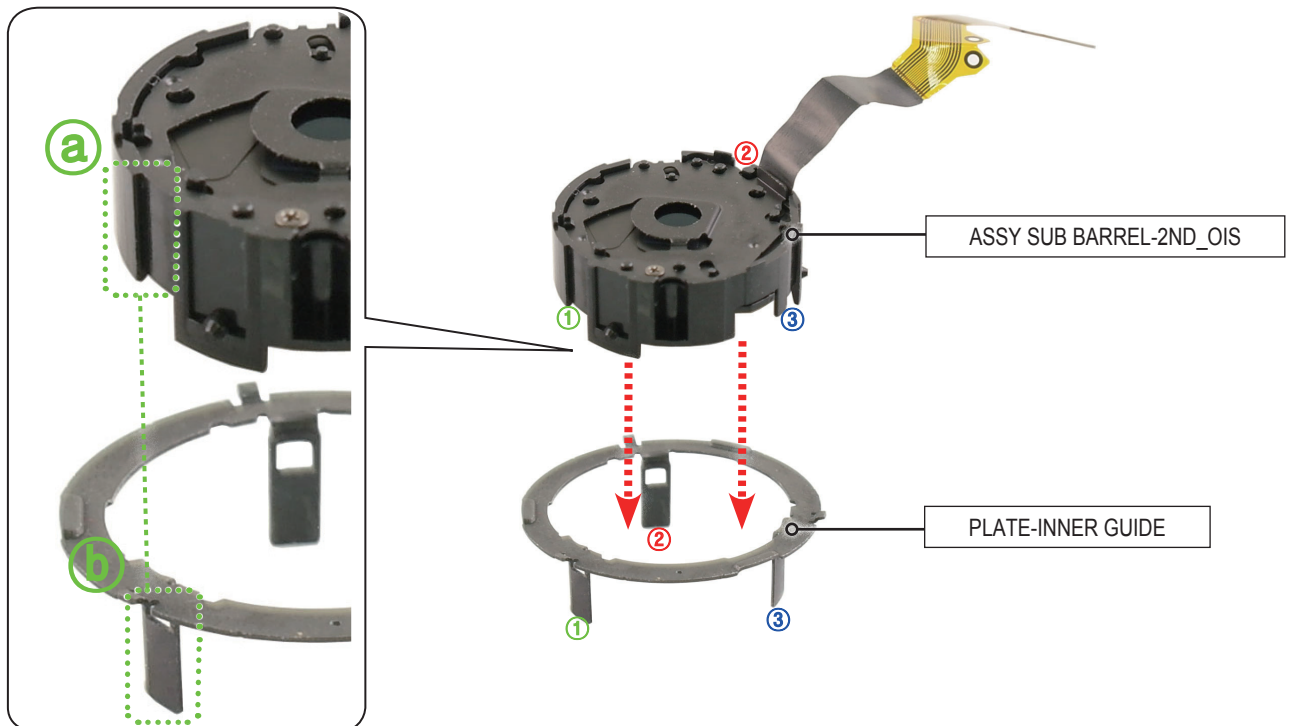


Fig 3-35

(c) Assemble the Protrusion part of BARREL-INNER CAM/ ASSY SUB BARREL-ZOOMRING and ASSY SUB BARREL-2ND_OIS/ PLATE-INNER GUIDE by aligning the part "a" with "b" as illustrated. (Does not matter the Three location ① ~ ③.)

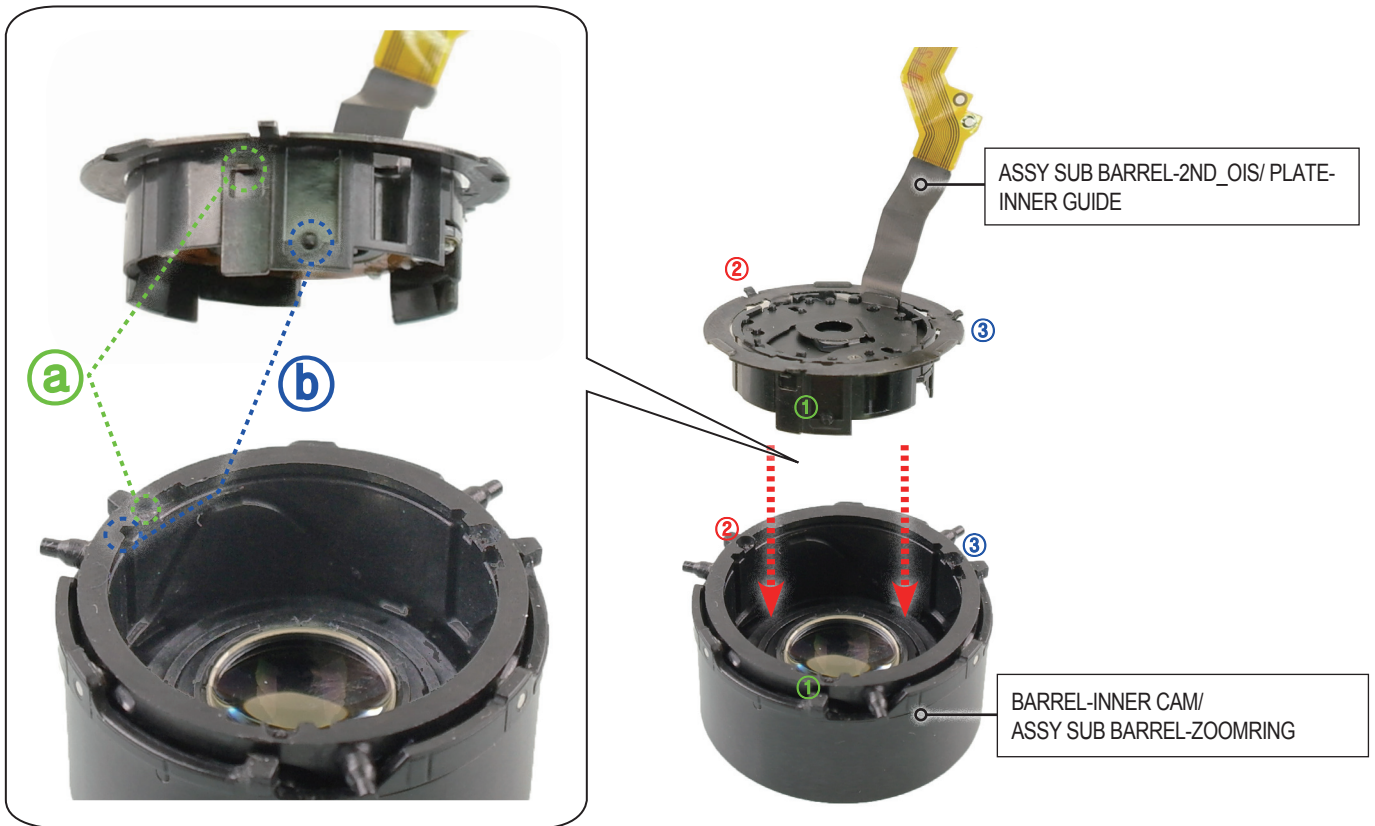


Fig 3-36

(d) Converge the protrusion part to the middle as part "a" of "Fig.A" and then assemble the BARREL-OUTER GUIDE by aligning the part "b" as illustrated.

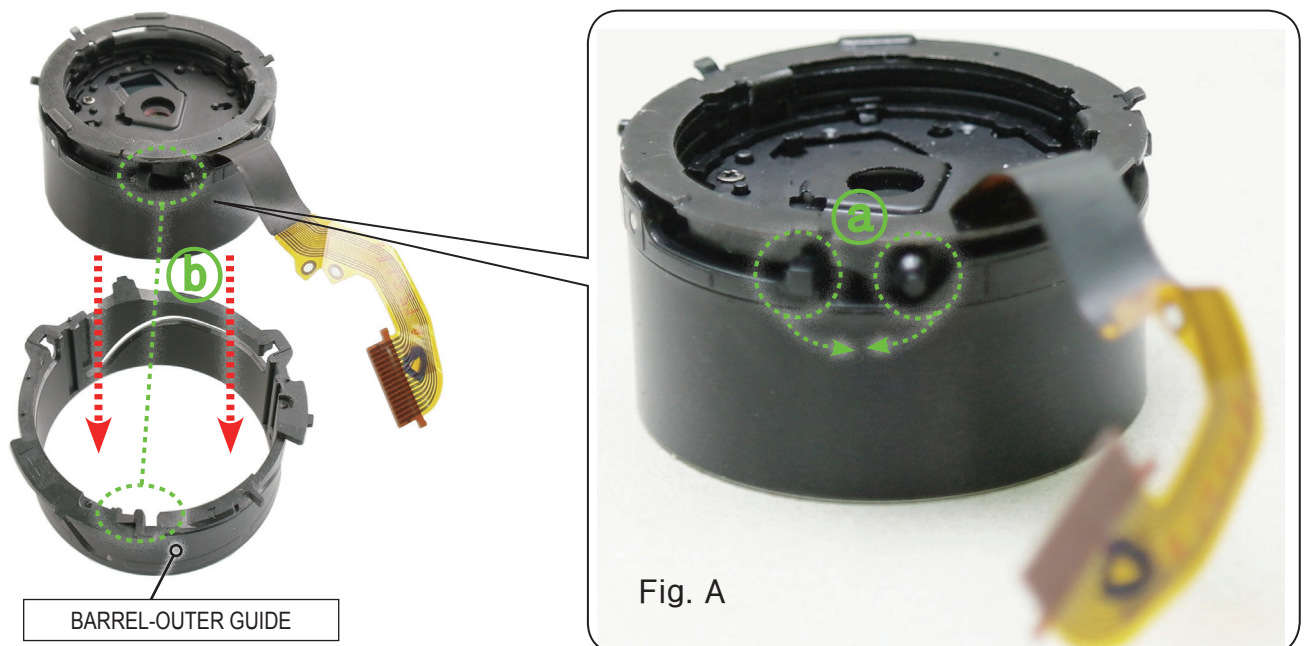


Fig 3-37

(e) Assemble the ASSY SUB BARREL-OUTER CAM by aligning the part "a" with "b" as illustrated.

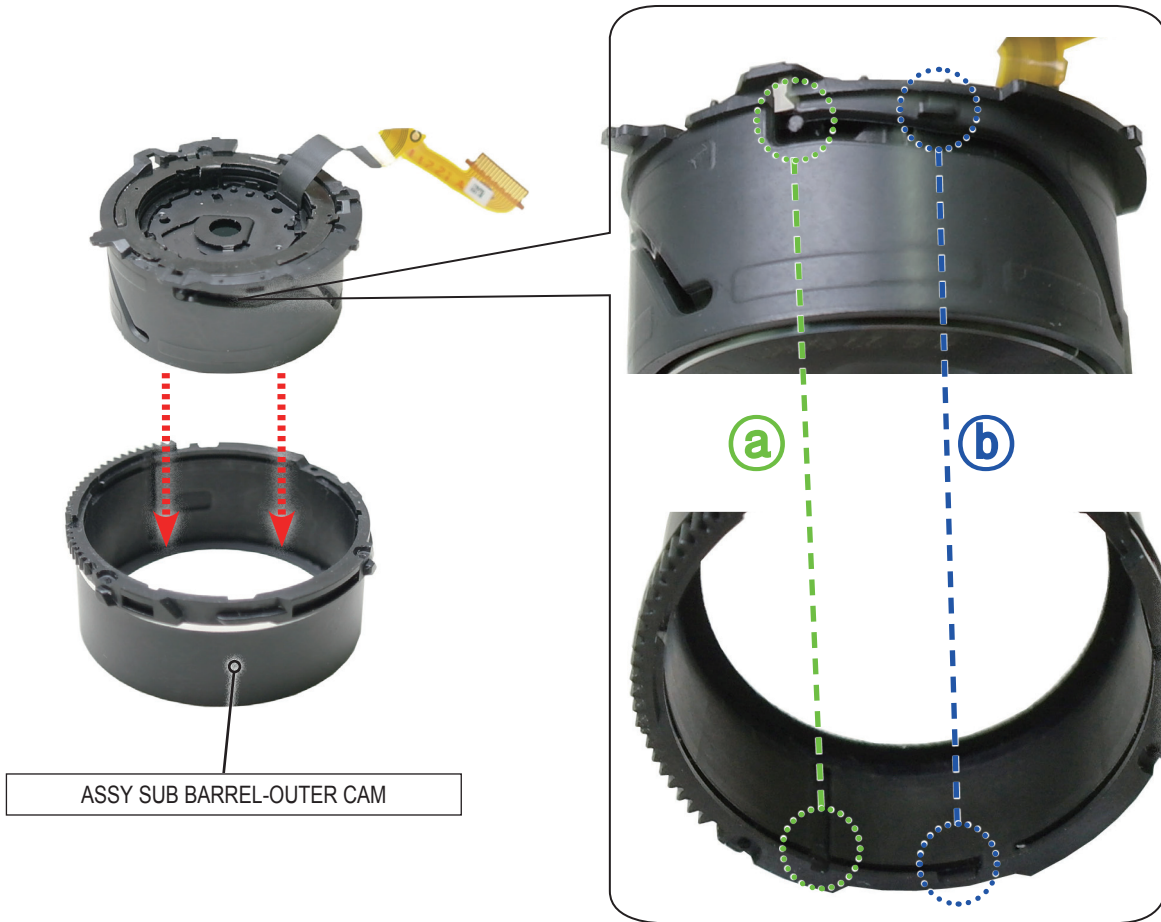


Fig 3-38

(f) Assemble the BARREL BASE.

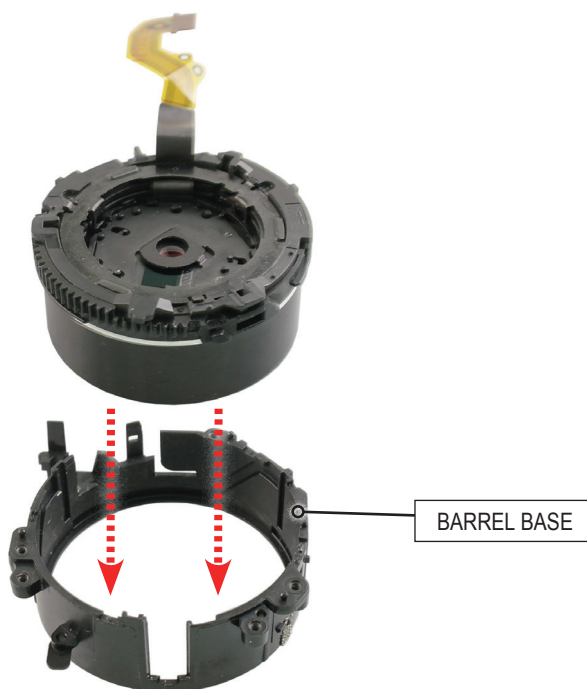


Fig 3-39

(g) After Assemble the FPCB HOLDER as illustrated, slide it into the marked slot "a".

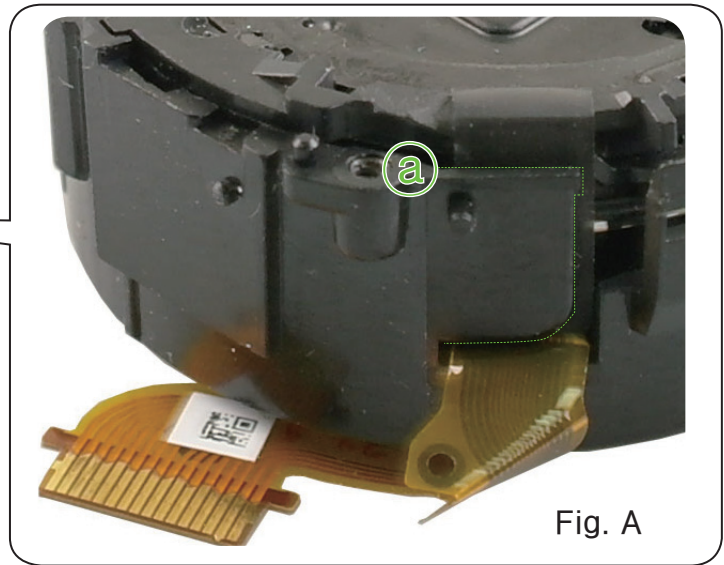
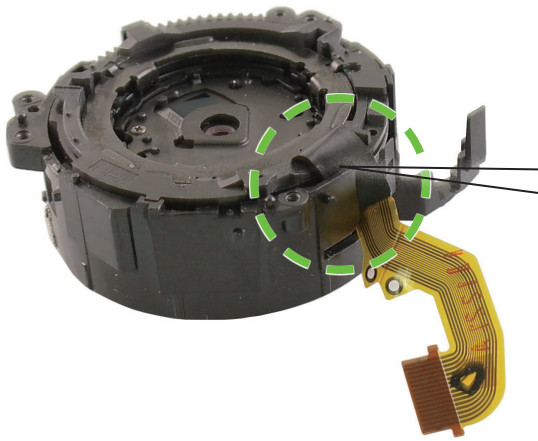


Fig 3-40

(h) Assemble the ASSY LENS BASE-D5 by aligning the part "a" with "b" as illustrated.

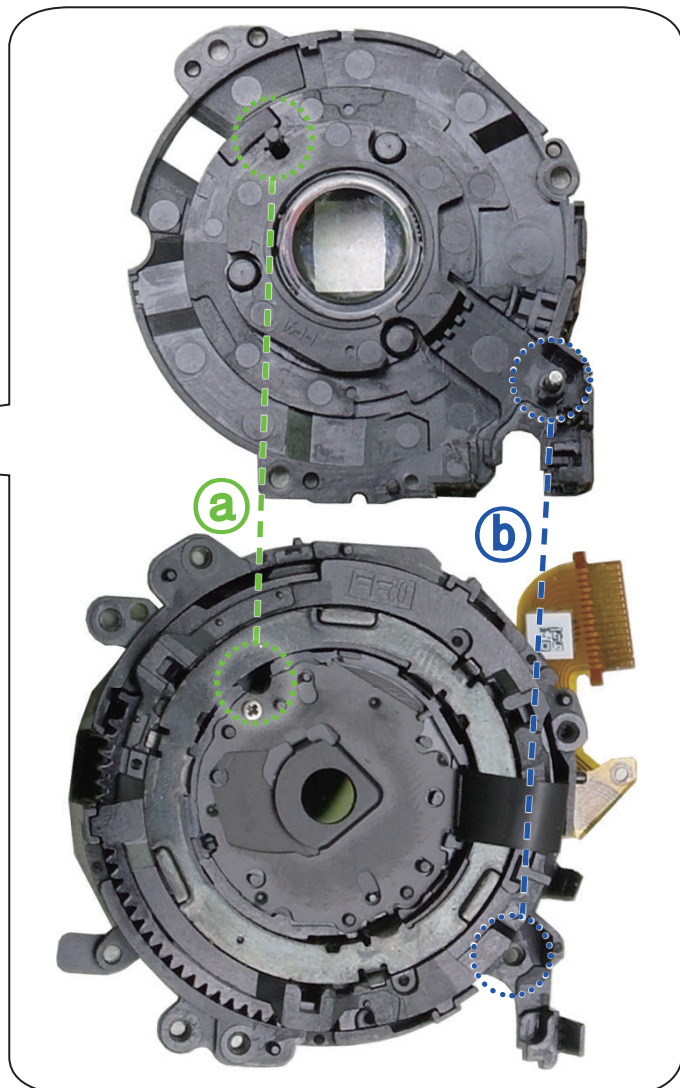
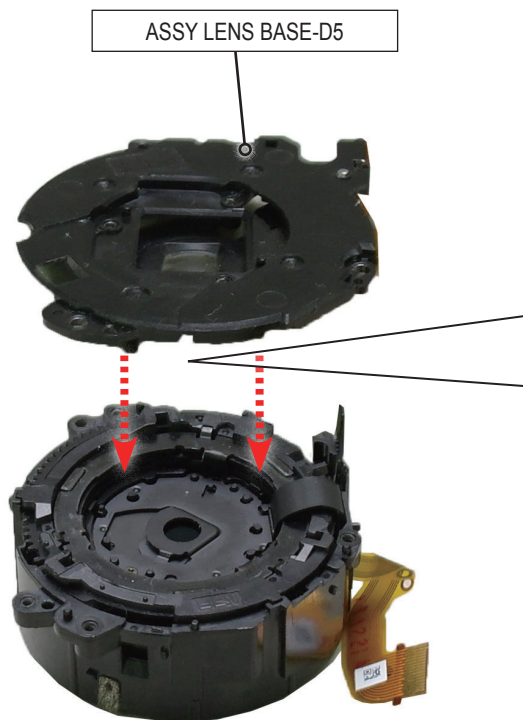


Fig 3-41

(i) Assemble the ASSY ZOOM-0523-D5 by aligning the part "a", "b", "c" as illustrated.



Fig 3-42

2. Reassembly of BARREL FPCB.

(a) Tighten the oen SCREW.

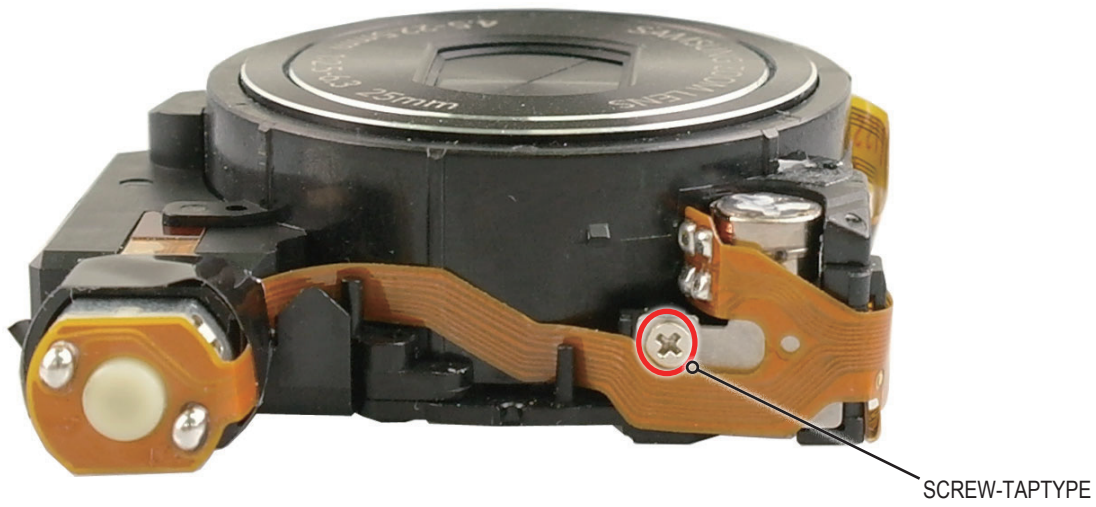


Fig 3-43

(b) Assemble the FPCB as "Fig. A".

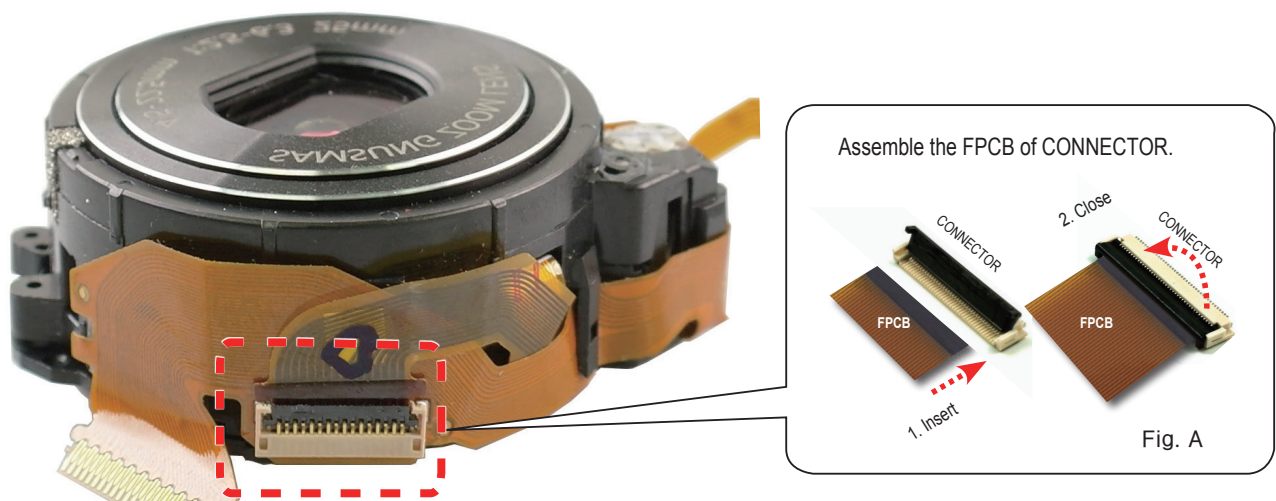


Fig 3-44

(c) Tighten the five SCREWS.

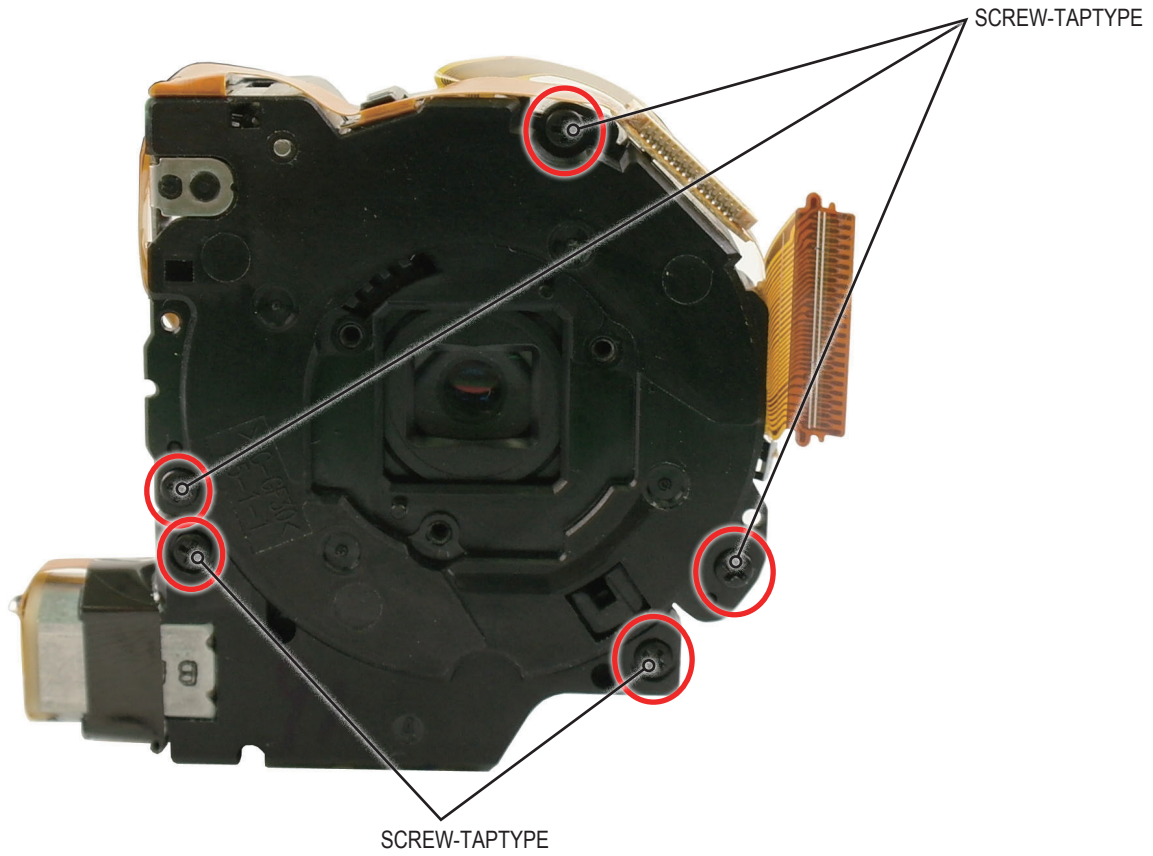


Fig 3-45

3. Reassembly of PCB FPC-CCD ASSY.

(a) Assemble the PCB FPC-CCD ASSY and then tighten the three SCREWS.

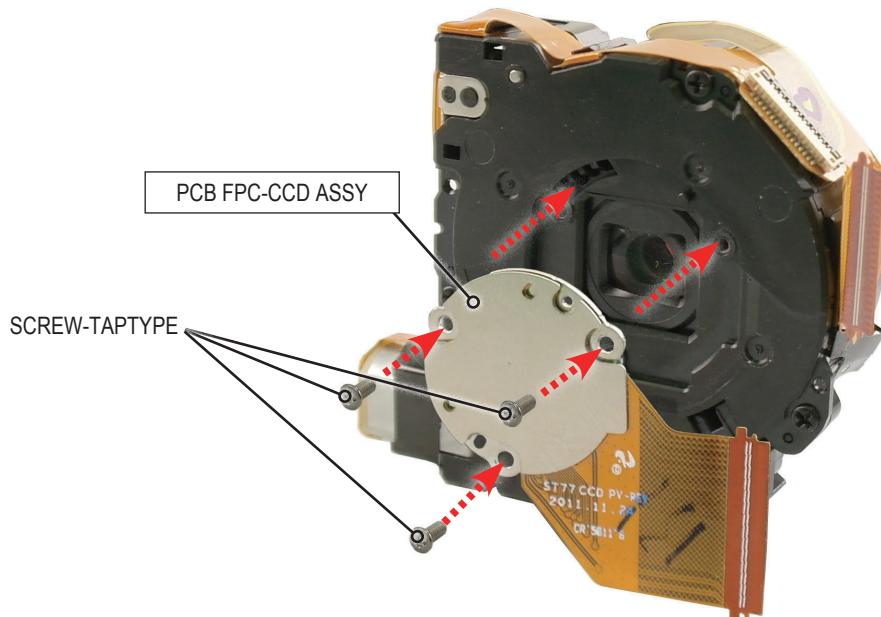
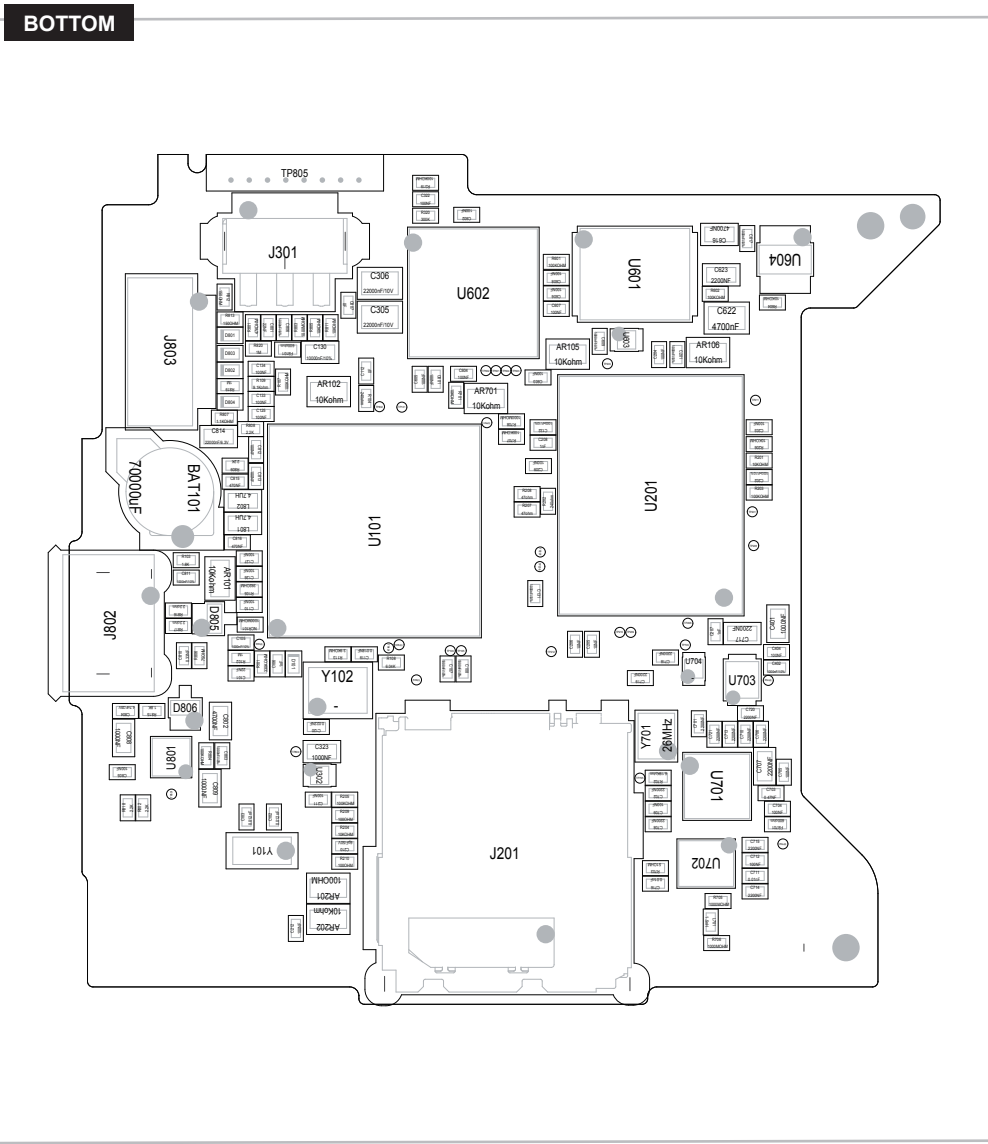
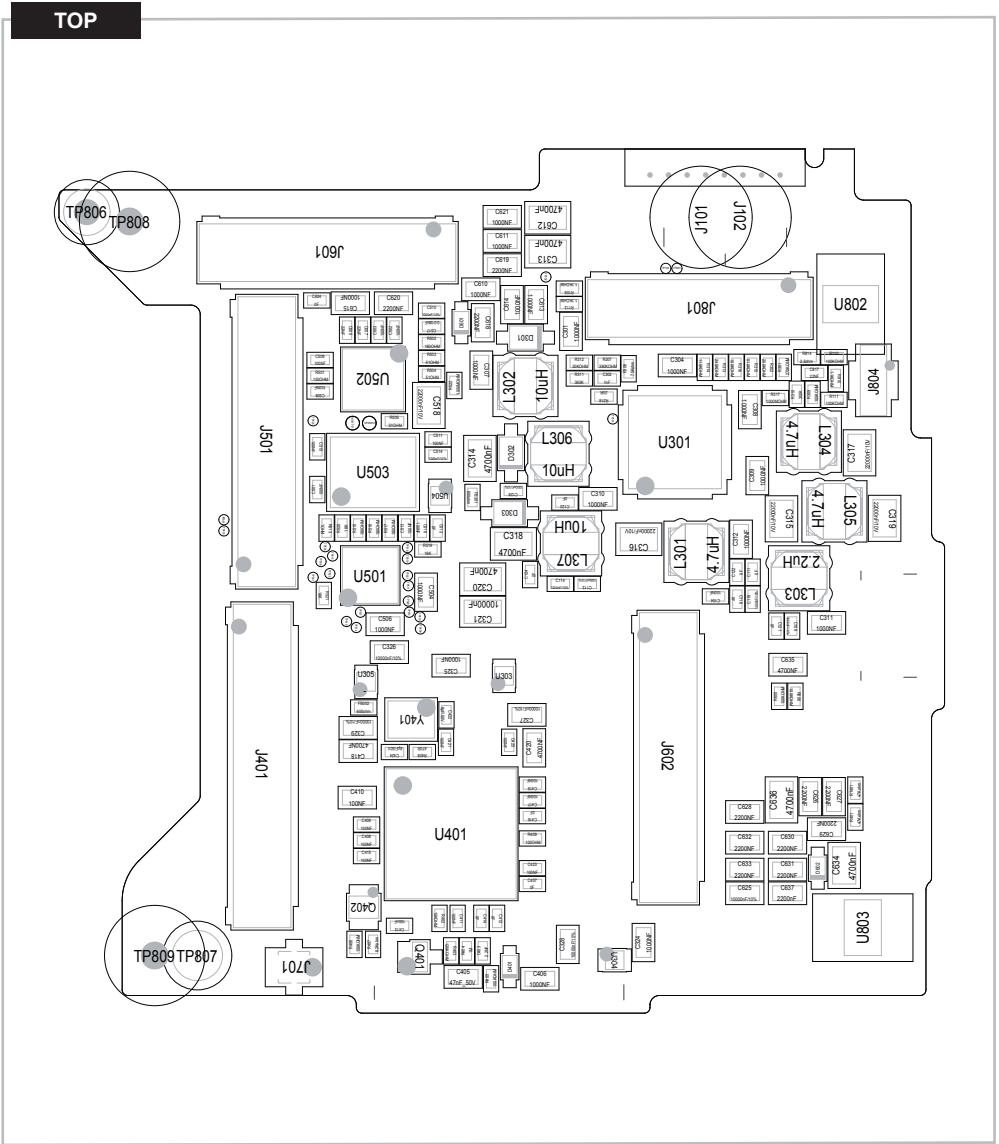


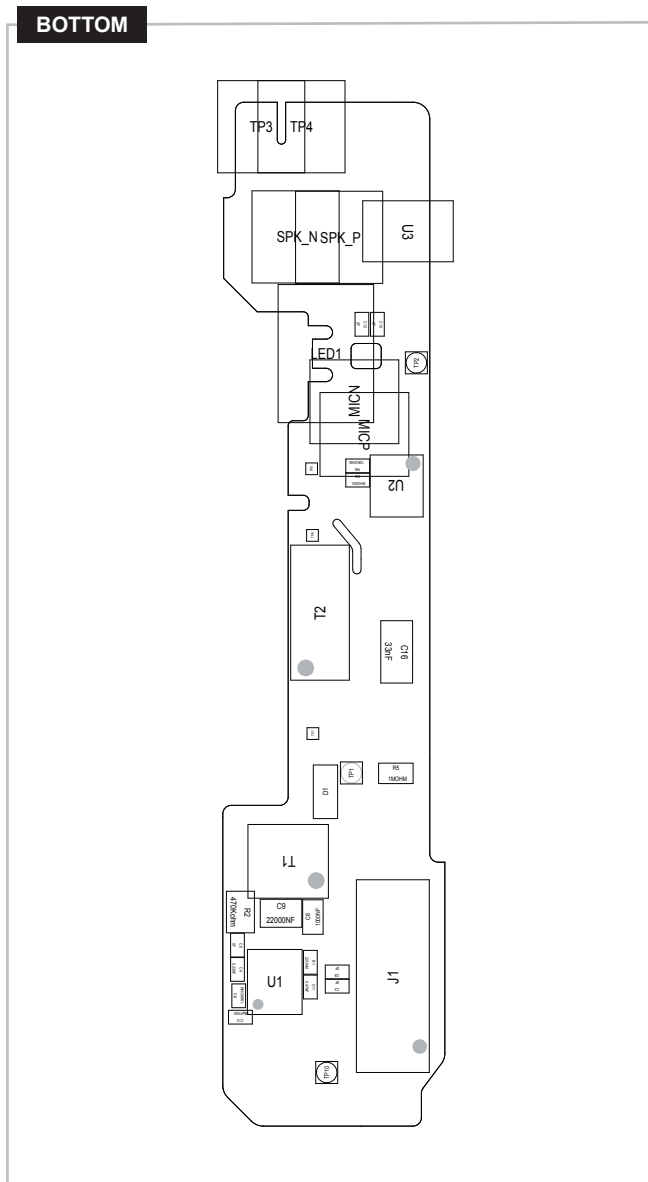
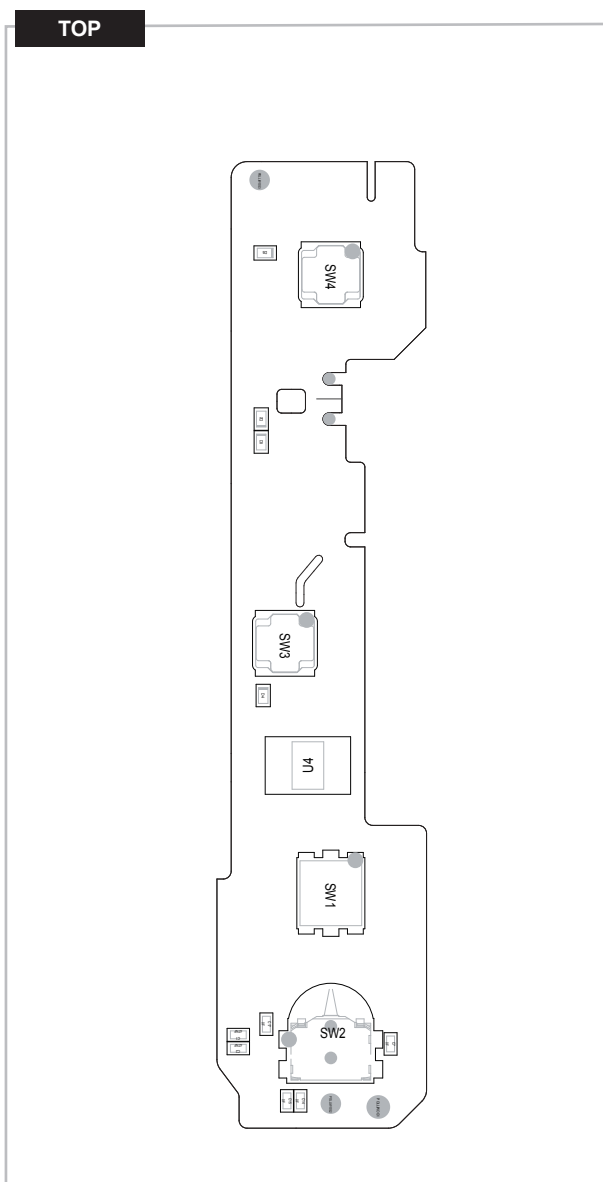
Fig 3-46

4. PCB diagrams

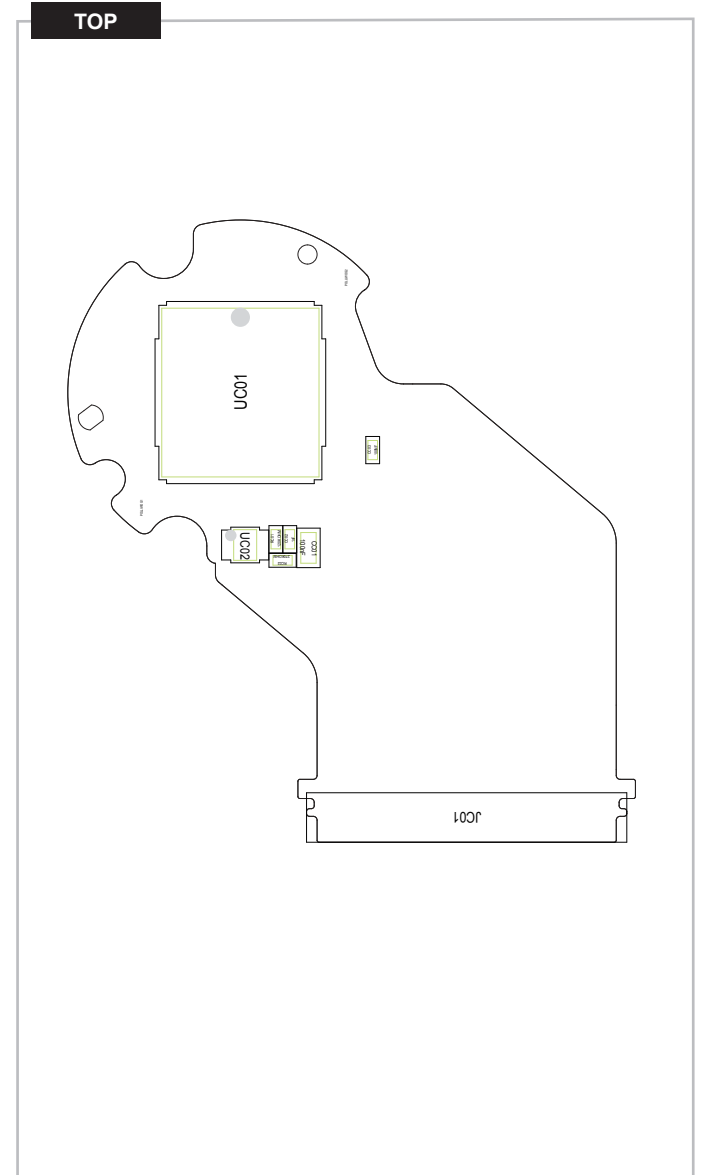
4-1 MAIN PCB



4-2 TOP PCB

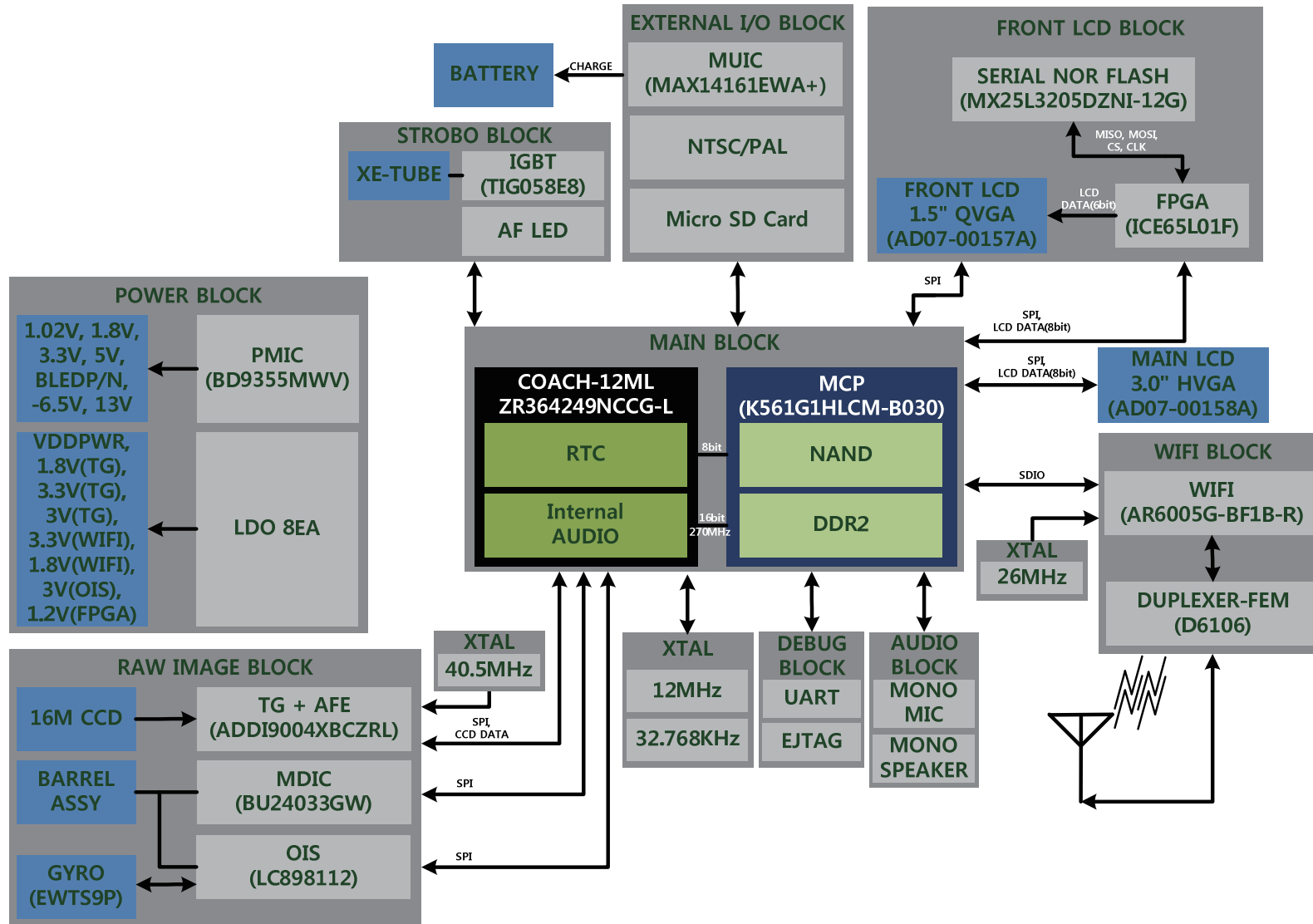


4-3 CCD FPCB



5. Block diagram

DV300 Block Diagram



6. Firmware update

6-1 Product reset



▪ This describes how to reset the camera to factory default setting.

1. First turn on the power of the camera.



Fig. 6-1

2. Press the ❶ WIDE button + DOWN button and then turn the ❷ POWER off.

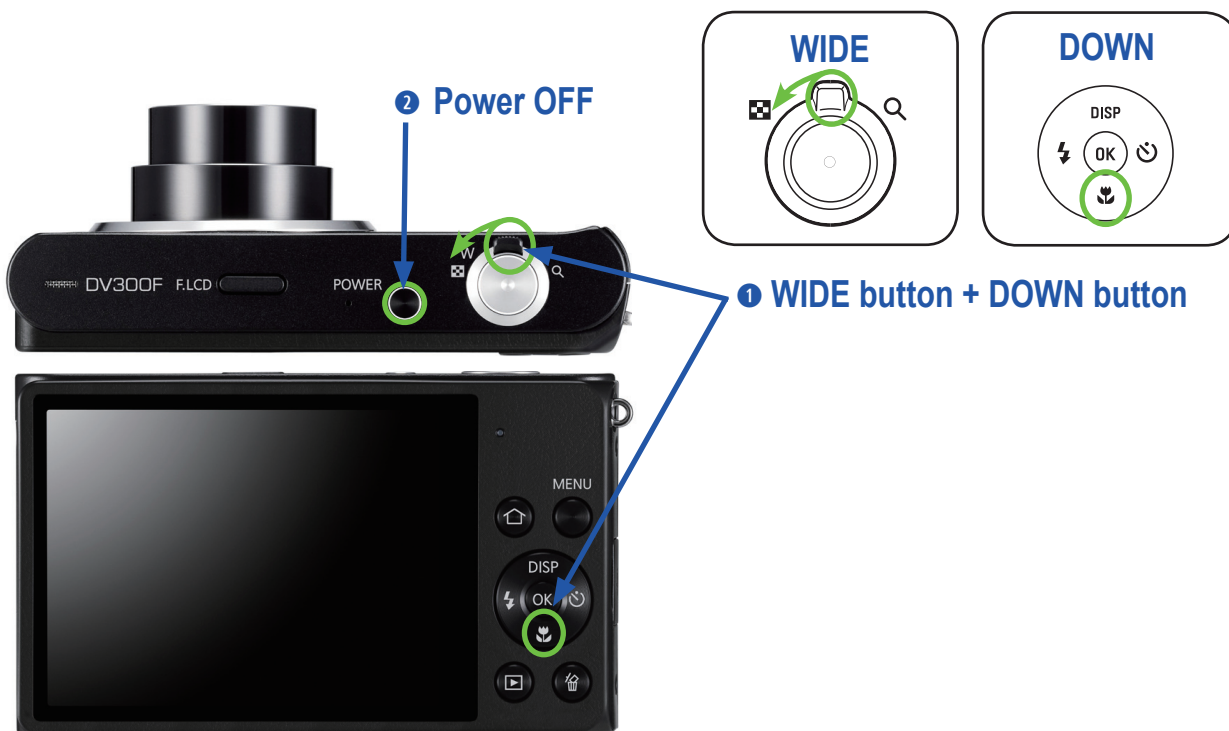


Fig. 6-2

3. Turn the power of the camera on again to check whether it has been reset.



Fig. 6-3

6-2 Version check



▪ This describes how to check the version of the current firmware of the camera.

1. Use fully charged batteries for power.
2. First turn off the power of the camera.
3. Press the ❶ SHUTTER button + DOWN button, and then turn the ❷ POWER on.



Fig. 6-4

4. Check the version of the firmware and then turn the power off.



Fig. 6-5

6-3 Upgrade

◆ How to execute the firmware

The firmware is configured in the following structure.

Code area is where the execution codes to operate the camera are located, and the Partition [1:3] area is where the various resources necessary to operate the camera are saved. Among these areas, Partition 3 area is where the Defective Pixel adjustment data and Lens Shading adjustment data are saved.

User Area is where the setting values are saved through the menu when the user uses the camera, and the adjusted data through integrated process is saved.

<Table. 6-1>

Code	partition1	partition2	partition3	User Area
------	------------	------------	------------	-----------

▶ Reference of general version:


- As the version to update the Code + Partition [1:2] area, this protects both the adjusted data saved in the User Area and the Partition 3 area.

1. Insert the memory card containing the firmware data file and Upgrade Script file into the camera.

* You need two files to upgrade the firmware and the required files are firmware data file and Upgrade Script file.

* Because all data saved on the FLASH memory will be reset when you upgrade the firmware, back up your data before proceeding with the upgrade.

 fwup.txt

 DV300-dsp-1202104-full.elf

2. Use the AC adaptor or fully charged batteries for the power.

* You can proceed with the upgrade only when the battery level is full (Icon showing full up to 3rd level).

3. Turn on the power of the camera.



Fig. 6-6

- The version of the firmware to upgrade will be displayed on the LCD screen. When you press the SHUTTER button, the firmware upgrade will start.



Fig. 6-7

- The progress of the firmware upgrade will be displayed on the LCD and the upgrade will proceed.

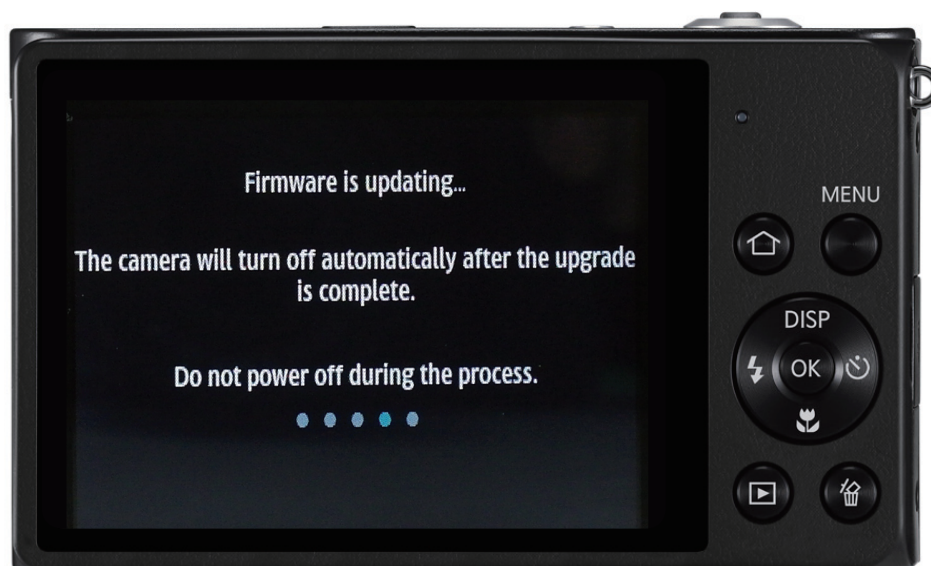


Fig. 6-8

- When the upgrade is completed, the camera will automatically be turned off.

7. Adjustment

7-1 Basic guide for adjustment



- After replacing an electronic part, you must make changes for each adjustment item in the DV300/DV300F/DV305/DV305F.
- The following table shows the necessary adjustment item for replacing each part.
- The camera must be fixed with a tripod and levelled condition must be maintained.

1. After replacing an electronic part, you must make adjustments for each item by referring to the following table.

<Table. 7-1 Adjustment information>

	MAIN PCB	TOP PCB	BARREL ASSY	CCD ASSY	FRONT LCD
FIRMWARE UPGRADE	O	X	O	O	X
LENS SHADING ADJ	O	X	O	O	X
SHUTTER CLOSE TIME ADJ	O	X	O	O	X
FLASH ADJ	O	O	O	O	X
PUNT ADJ	O	O	O	O	O
VERTICAL LINE ADJ	O	X	O	O	X
CCD DEFECT PIXEL ADJ	O	O	O	O	O
OIS CENTERING	O	X	O	O	X
SERIAL NUMBER WRITING ADJ	O	X	X	X	X

2. Adjustment equipment

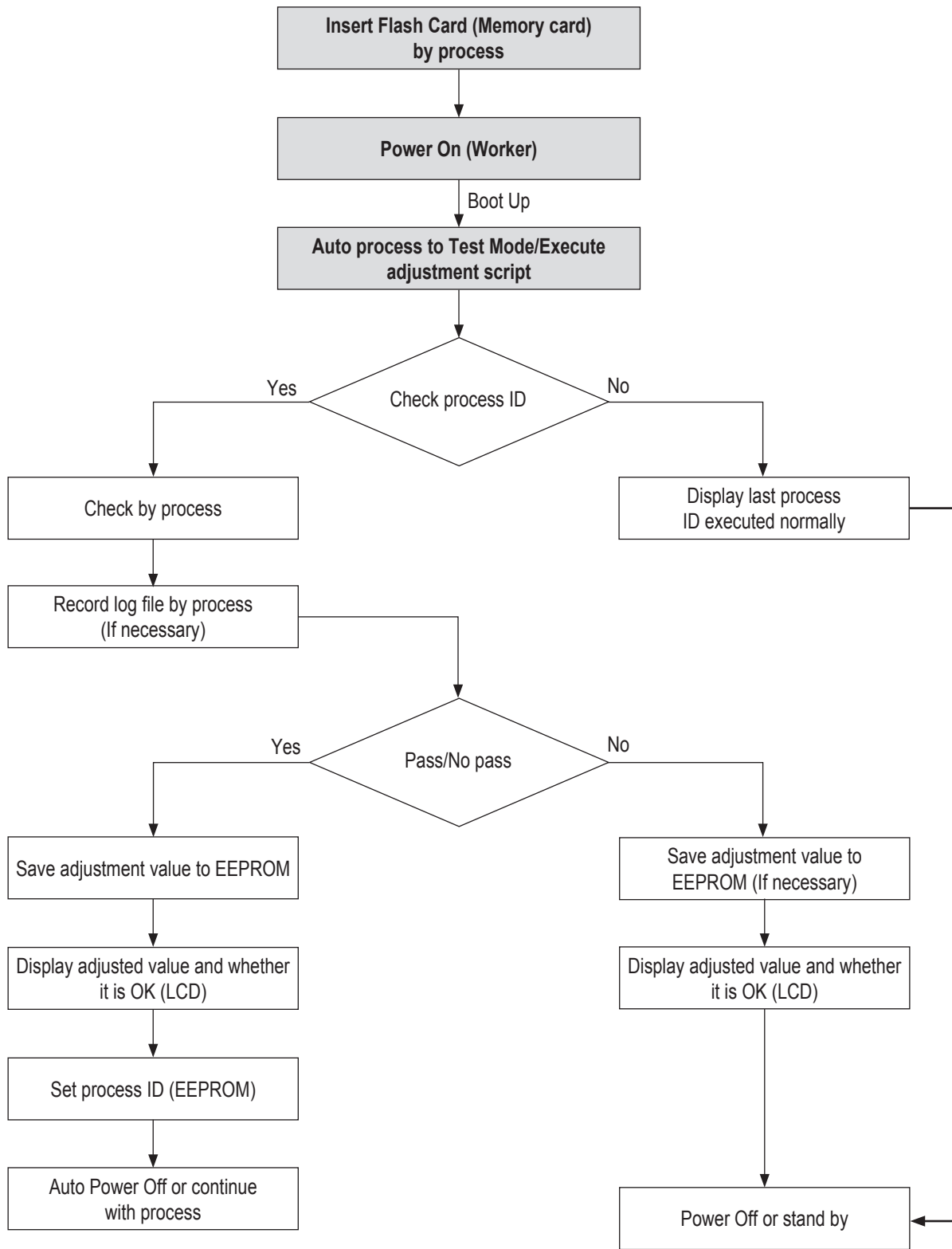
- AE TESTER: AE TESTER that enables LV 12.
- The colour temperature specification of the Light box is 5500K.
- Infinity Collimator for PUNT adjustment
- Gray chart (18%) for FLASH & AWB, DARK BOX)
- POWER SUPPLY: 4.2V/2A

3. Adjustment program file

Save and use the program for each adjustment item on the memory card to adjust each item.

The file name for each adjustment item is the same as "DV300_ADJ.TXT", "DV300F_ADJ.TXT", "DV305_ADJ.TXT", "DV305F_ADJ.TXT".

4. Operating procedure of adjustment program



7-2 Lens shading ADJ



- Make adjustments to the Lens Shading to the surrounding brightness of each camera.
- Because the surrounding brightness is lower compared to the centre for each set, separately adjust each set so that the surrounding brightness is higher.

<Adjustment method>

1. Prepare the AE TESTER.

- * Luminance specification of the Light box is **LV 12**.
- * The Light box is located at 10mm ± 1mm with the body tube open.
- * The colour temperature specification of the Light box is **5500K**.

2. Save the applicable adjustment file to the memory card.

3. After inserting the memory card containing the program file to the camera, set the camera to the AE TESTER.



Fig. 7-1

4. Adjust the LV value of the AE METER to **12**.

5. When you turn on the power of the camera, the adjustment will start automatically.

- ① Adjust the Lens Shading with large lense, Zoom 0 condition.
- ② Refer to the EEPROM WRITE information and write the adjustment result to EEPROM.
- ③ Refer to the CARD WRITE INFORMATION to write the adjustment result to the data file.
- ④ Set the lower and upper specification.

6. When the adjustment is completed, the camera will automatically be turned off.

<Adjustment result>

On the memory card, open and check if a CSV file was generated from the adjustment..

<Restriction>

If the capacity of CSV file is more than 30KB, clear all of the previous data and then, record

7-3 Shutter close time ADJ

- Adjust the Close timing of the device shutter by camera.
- Because there is a deviation of shutter closing time by each set, make adjustments by each set to reduce this deviation.
- CCD Gain item and AWB LOW are adjusted simultaneously.

<Adjustment method>

1. Prepare the AE TESTER that can be adjusted to **LV 12**.

2. Install the camera to the AE TESTER.

* Luminance specification of the Light box is **LV 12**.

* The colour temperature specification of the Light box is **5500K**.



Fig. 7-2

3. After inserting the memory card containing the program file to the camera, turn on the power of the camera.

4. The adjustment process will automatically start.

- 1 Refer to the specification (Illuminance) for testing.
-Line delay and Sub delay are adjusted so that the appropriate value can be identified to the specification illuminance.
- 2 If the result line delay wish within the min and max range, it is OK. If it is outside of the range, process as NG.
- 3 Refer to the EEPROM WRITE information and write the adjustment result to EEPROM.
- 4 Refer to the CARD WRITE INFORMATION to write the adjustment result to the data file.

5. When the adjustment is completed, the camera will automatically be turned off.

<Adjustment result>

On the memory card, open and check if a CSV file was generated from the adjustment.

<Restriction>

If the capacity of CSV file is more than 30KB, clear all of the previous data and then, record

7-4 Flash ADJ



- Set a limit to the illuminance by the Strobe light to classify the hardware defect.
- Classify the set that deviates from the specifications by illuminating times and then calculate the flash R, B gain.
- AWB HIGH item is adjusted simultaneously.

<Adjustment method>

1. Attach an 18% reflective paper in the dark room where the light is blocked.
2. Set up the camera in the dark room.
3. Set the distance between the reflective paper and camera to 50cm.

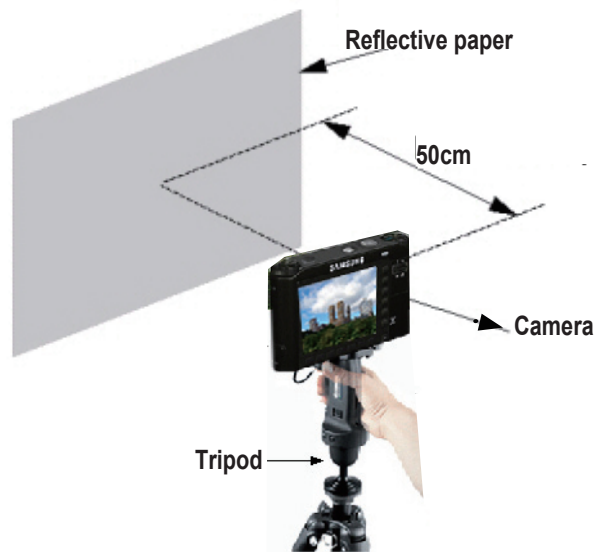


Fig. 7-3

4. Save the applicable adjustment file to the memory card.
5. After installing the memory card containing the program file, turn on the power of the camera.
6. The adjustment will automatically start.
 - ① Compare the reference illumination for 2 illuminations using the flash algorithm, and make a judgment.
 - ② By using the average value of the illuminance of 2 times, check the R and B gain to make Pass/No Pass judgment.
 - ③ Record the R and B gain to EEPROM during flash process and R, B gain success.

<Adjustment result>

On the memory card, open and check if a CSV file was generated from the adjustment.

<Restriction>

If the capacity of CSV file is more than 30KB, clear all of the previous data and then, record

7-5 Punt ADJ

- **Adjustment objective:** After replacing the MAIN PCB and BARREL, you must decide the AF search range so that the optimal focus can be identified by the body tube.
 - **Necessary equipment:** Infinity Collimator
-

<Adjustment method>

1. Save the adjustment file to the memory card and install it on the camera.
2. Refer to the following adjustment environment specification to adjust the focus.
 - 1) Used specification of Infinity Collimator
 - Set the illuminance specification of the Collimator to 6 LV.
 - Maintain distance of less than 1cm between the end of the camera body tube to the lens surface of the Infinity Collimator.
 - The camera must be fixed while the adjustment is made.

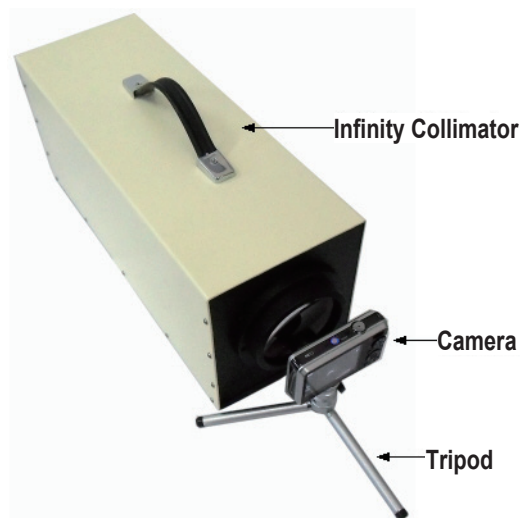


Fig. 7-4

2) Used specification for infinite object

- The camera must be fixed with a tripod and levelled condition must be maintained.
- Set up the camera toward a building or object in infinite distance (more than 500m). (Do not use the chart)
- Set a cathedral, apartment or object with high contrast in day environment/AF area display.

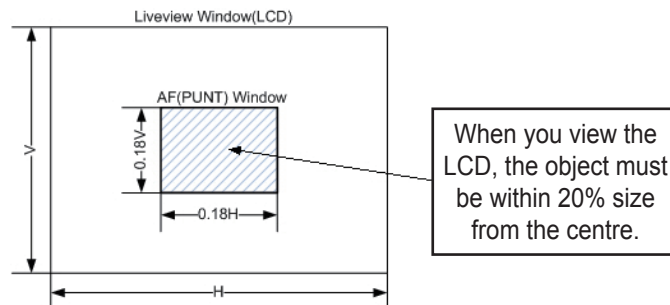


Fig. 7-5

CAUTION

For the object, exclude full glass buildings or objects with low contrast, and this cannot be adjusted for night time.
For the adjustment in these environments, AF may not be accurate when shooting Tele or macro.

3. Turn on the power of the camera.

4. The adjustment will automatically start.

<Adjustment result>

On the memory card, open and check if a CSV file was generated from the adjustment.

7-6 Vertical line ADJ



- Set the maximum number of vertical line to prevent displaying a big vertical line.

<Adjustment method>

1. Prepare the AE TESTER.

- * Luminance specification of the Light box is **LV 12**.
- * The Light box is located at 10mm+-1mm with the body tube open.
- * The colour temperature specification of the Light box is **5500K**.

2. Save the applicable adjustment file to the memory card.

3. After inserting the memory card containing the program file to the camera, set the camera to the AE TESTER.



Fig. 7-6

4. Adjust the LV value of the AE METER to **12**.

5. When you turn on the power of the camera, the adjustment will start automatically.

- ➊ To do the compensation of vertical line, check the minimum and maximum ratio of EVC and ISO
- ➋ Compare the checked information with basic information. (Record the real q'ty and ratio of vertical line)
- ➌ Write the vertical line at the file.

6. When the adjustment is completed, the camera will automatically be turned off.

<Adjustment result>

On the memory card, open and check if a CSV file was generated from the adjustment.

<Restriction>

If the capacity of CSV file is more than 30KB, clear all of the previous data and then, record

7-7 CCD defect ADJ



- Calibrate the Defective pixel of CMOS for each camera.

<Adjustment method>

1. Save the applicable adjustment file to the memory card.
2. After inserting the memory card containing the program file, turn on the power of the camera.
3. The adjustment will automatically start.
 - ① Check the set reference level, exposure time and loop, and execute the Defective Pixel calibration.
 - ② Refer to the specification (Maximum number of defective cells) and execute the check.
 - ③ Refer to the CARD WRITE information to write the number of defective cells to the data file.
4. When the adjustment is completed, the camera will automatically be turned off.

<Adjustment result>

On the memory card, open and check if a CSV file was generated from the adjustment.

7-8 OIS centering ADJ



- Process to check if OIS performs well or not.

<Adjustment method>

1. Save OIS .hex file and script file on memory card.
2. Install memory card with a program file and then, turn the camera on.
3. Adjustment is made automatically.
OIS module will be operated left/right/up/down 2-3 times.
4. When the adjustment is completed, the camera will be off automatically.

<Adjustment result>

On the memory card, open and check if a CSV file was generated from the adjustment.

CAUTION

Put your camera, face up, on a steady surface such as a table or anything solid that won't move. Don't put your camera on a highly unstable surface. Also don't put your camera down or hold it. The noise may significantly affect degrading the Gyro Sensor and Hall Sensor performance.

7-9 Serial number writing process



- Save S/N on the label of the camera in non-volatile memory due to the illegal distribution of DSC.
- When checking the version, check S/N to see if the camera is original or illegally distributed one.

<Process method>

1. Create the "DV300_ADJ.txt" or "DV300F_ADJ.txt", "DV305_ADJ.txt" or "DV305F_ADJ.txt" File with below contents at PC and save into the memory card.

- For Serial Number, put the Serial Number(Red text) at the previous main board.

```
sys_serial set 123456789123
sys_serial get
poweroff zoom_close
```

Fig. 7-7

2. Insert the memory card that has modified file into the Main board.

3. Turn on the power of the camera



Fig. 7-8

4) The change of Serial Number will be done automatically.

5) When the adjustment is completed, the camera will automatically be turned off.

<Process result>



When checking the version (Press SHUTTER button and DOWN button to turn on), S/N appears on the screen.

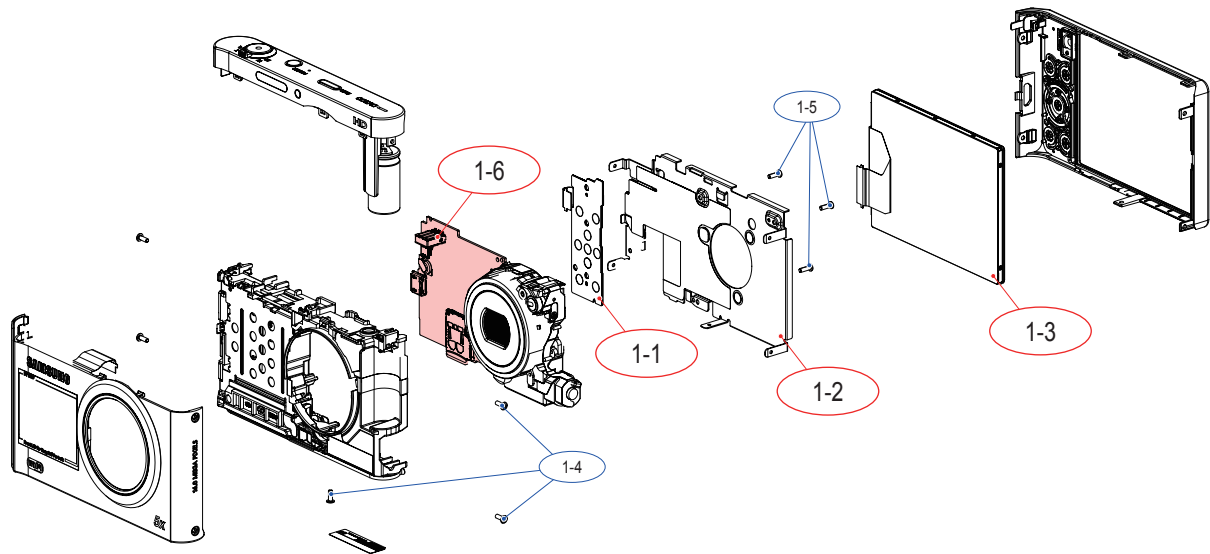


Fig. 7-9

8. Exploded view and parts list

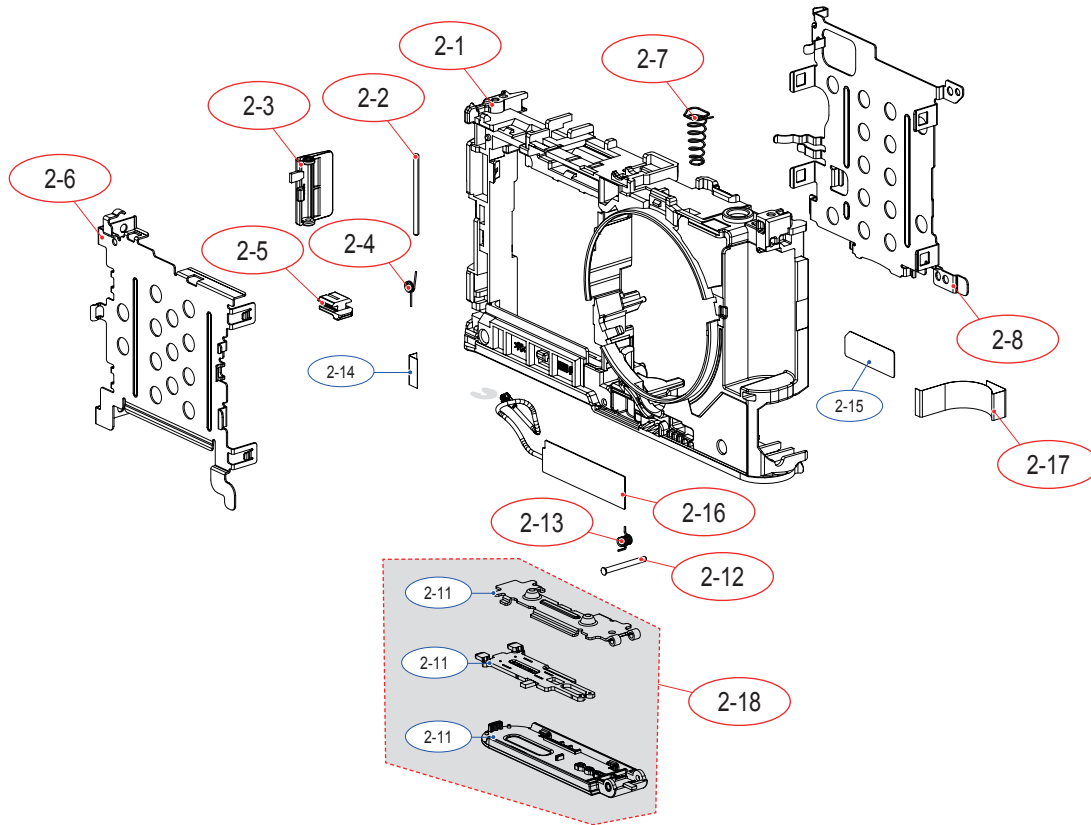
8-1 BODY ASSEMBLY

Item	Service Info
	Service is available.
	Service is not available.



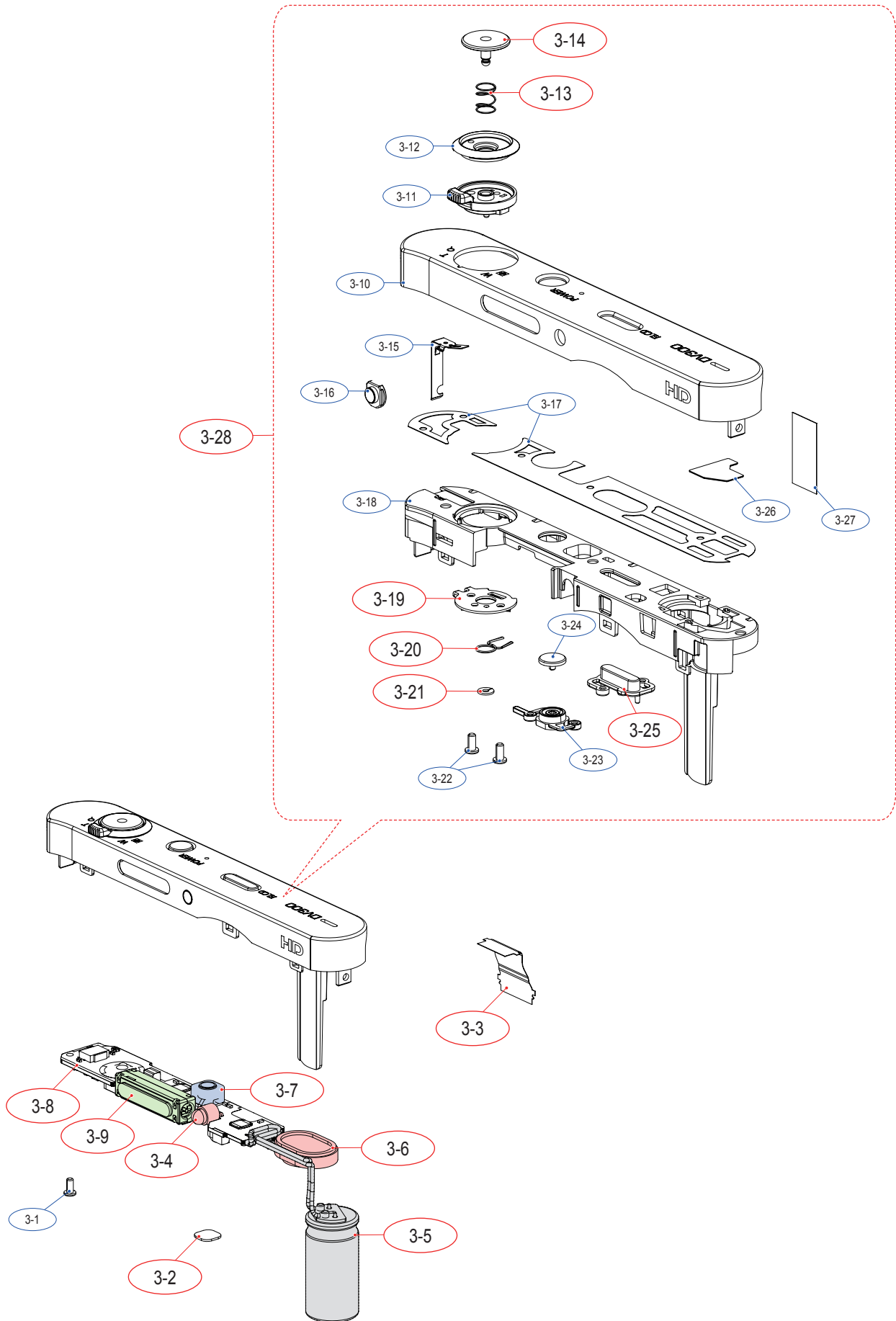
Loc. No	Parts No.	Description	Q ty	Available	Remark
1-1	AD92-01830A	ASSY KEY PCB	1	O	
1-2	AD97-21901A	ASSY FRAME MAIN	1	O	
1-3	AD97-21900A	ASSY LCD	1	O	
1-4	6001-002159	SCREW (M1.4x4.0 MACHINE)	5	X	
1-5	6003-001739	SCREW (M1.4X4.0 TAP)	3	X	
1-6	AD92-01814A	ASSY PCB MAIN-DV300F_DV305F	1	O	
	AD92-01849A	ASSY PCB MAIN-DV300	1	O	

8-2 MAIN SUB ASSEMBLY



Loc. No	Parts No.	Description	Q ty	Available	Remark
2-1	AD62-00195A	CHAMBER BODY BK	1	0	BLACK
	AD62-00195B	CHAMBER BODY SL	1	0	SILVER
2-2	AD61-03569A	HINGE_BATTERY (C/SOCKET)	1	0	
2-3	AD63-06711A	COVER USB BK	1	0	BLACK
	AD63-06711B	COVER USB BL	1	0	BLUE
	AD63-06711C	COVER USB RD	1	0	RED
	AD63-06711D	COVER USB PP	1	0	PLUM
2-4	6107-003195	SPRING-TS (LEVER BATT)	1	0	
2-5	AD66-00893A	LEVER BATTERY LOCK	1	0	
2-6	AD61-05612A	PLATE LCD HOLDER	1	0	
2-7	6107-001834	SPRING ETC-BATTERY PUSH	1	0	
2-8	AD61-05611A	PLATE BATTERY HOLDER	1	0	
2-9	AD63-06674A	COVER BATTERY BK	1	X	BLACK
	AD63-06674B	COVER BATTERY SL	1	X	SILVER
2-10	AD63-06712A	COVER BATTERY LOCK BK	1	X	BLACK
	AD63-06712B	COVER BATTERY LOCK SL	1	X	SILVER
2-11	AD61-05613A	PLATE COVER BATTERY	1	X	
2-12	AD66-00942A	SHAFT COVER BATTERY	1	0	
2-13	6107-001768	SPRING-TS (COVER BATT)	1	0	
2-14	AD63-06879A	SHEET CHAMBER	1	X	
2-15	AD68-06857A	LABEL BATTERY	1	X	
2-16	AD42-00014A	ASSY WIFI ANTENNA	1	0	
2-17	AD63-06880A	SHEET GASKET CHAMBER	1	0	
2-18	AD97-21917A	ASSY COVER-BATTERY_BK	1	0	BLACK
	AD97-21917B	ASSY COVER-BATTERY_SL	1	0	SILVER

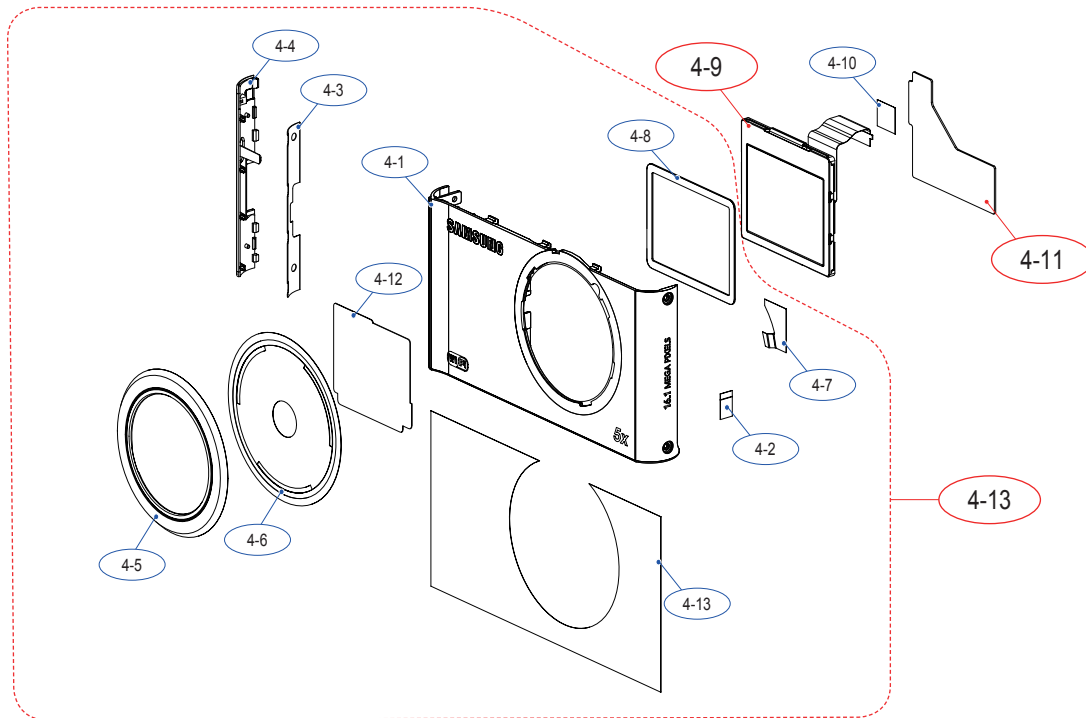
8-3 MIDDLE COVER ASSEMBLY



Exploded view and parts list

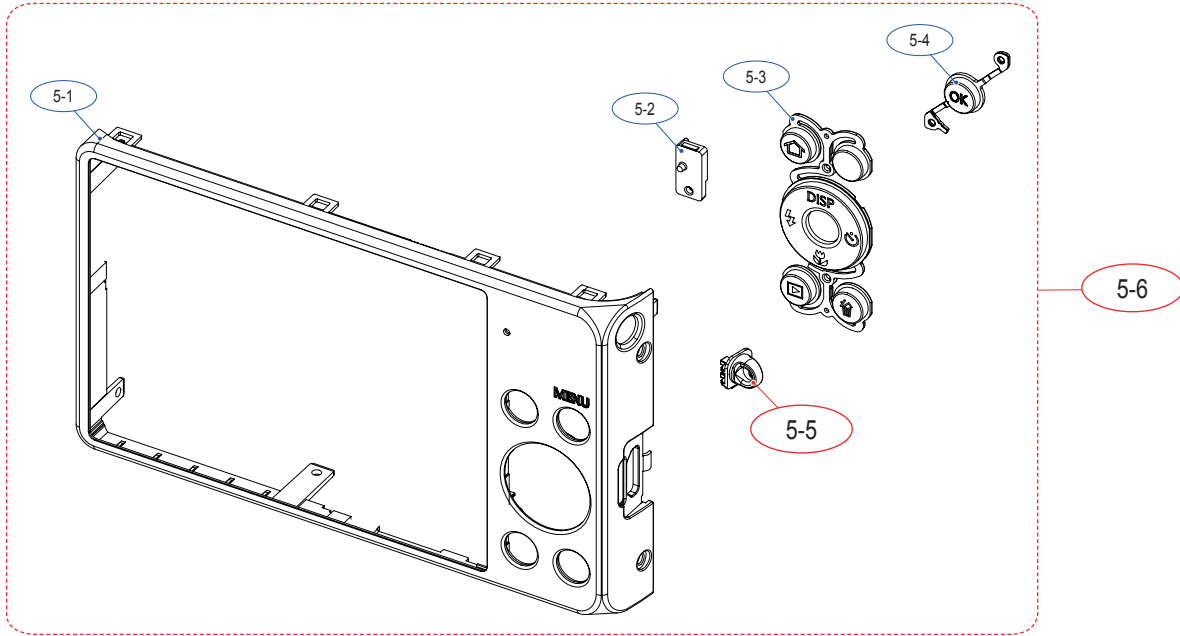
Loc. No	Parts No.	Description	Q ty	Available	Remark
3-1	6003-001630	SCREW (M1.4x3.5, TAP)	1	X	
3-2	AD63-06854A	CUSHION MIC	1	O	
3-3	AD41-01587A	FPCB TOP	1	O	
3-4	0601-003138	LED	1	O	
3-5	2401-005140	C-AL	1	O	
3-6	3001-002641	SPEAKER	1	O	
3-7	3003-001183	MIC-CONDENSOR	1	O	
3-8	AD94-00282A	ASSY SMD INSERT-DV300	1	O	
3-9	AD97-21942A	ASSY-FLASH MODULE	1	O	
3-10	AD63-06669A	COVER-MIDDLE TOP_BK_DV300F	1	X	BLACK
	AD63-06669B	COVER-MIDDLE TOP_SL_DV300F	1	X	SILVER
	AD63-06669F	COVER-MIDDLE TOP BK_DV305F	1	X	BLACK
	AD63-06669G	COVER-MIDDLE TOP SL_DV305F	1	X	SILVER
	AD63-06669D	COVER-MIDDLE TOP BK_DV300	1	X	BLACK
	AD63-06669E	COVER-MIDDLE TOP SL_DV300	1	X	SILVER
3-11	AD66-01001A	LEVER ZOOM	1	X	
3-12	AD64-03629A	DECO ZOOM	1	X	
3-13	6107-002640	SPRING-CS(RELEASE BUTTON)	1	O	
3-14	AD64-03686A	BUTTON RELEASE	1	O	
3-15	AD61-05615A	PLATE TOP	1	X	
3-16	AD64-03607A	WINDOW LED-AF	1	X	
3-17	AD63-06729A	SHEET TOP	1	X	
3-18	AD63-06675A	COVER TOP INNER	1	X	
3-19	AD97-22161A	ASSY-PLATE KNOB ZOOM	1	O	
3-20	6107-002647	SPRING ZOOM LEVER	1	O	
3-21	6031-001628	WASHER PLAIN	1	O	
3-22	6003-001630	M1.4x3.5 TAPTITE P0.5 D 2.5	2	X	
3-23	AD64-03593A	BUTTON POWER	1	X	
3-24	AD64-03628A	DECO POWER BUTTON BK	1	X	BLACK
	AD64-03628F	DECO POWER BUTTON SL	1	X	SILVER
3-25	AD64-03594A	BUTTON F.LCD BK	1	O	BLACK
	AD64-03594B	BUTTON F.LCD SL	1	O	SILVER
3-26	AD63-06730A	MESH SPEAKER	1	X	
3-27	AD63-06734A	T/SHEET CONDENSOR	1	X	
3-28	AD97-21896A	ASSY COVER TOP SUB_BK_DV300F	1	O	BLACK
	AD97-21896B	ASSY COVER TOP SUB_SL_DV300F	1	O	SILVER
	AD97-22314A	ASSY COVER TOP SUB_BK_DV305F	1	O	BLACK
	AD97-22315A	ASSY COVER TOP SUB_SL_DV305F	1	O	SILVER
	AD97-22316A	ASSY COVER TOP SUB_BK_DV300	1	O	BLACK
	AD97-22316B	ASSY COVER TOP SUB_SL_DV300	1	O	SILVER

8-4 FRONT COVER ASSEMBLY



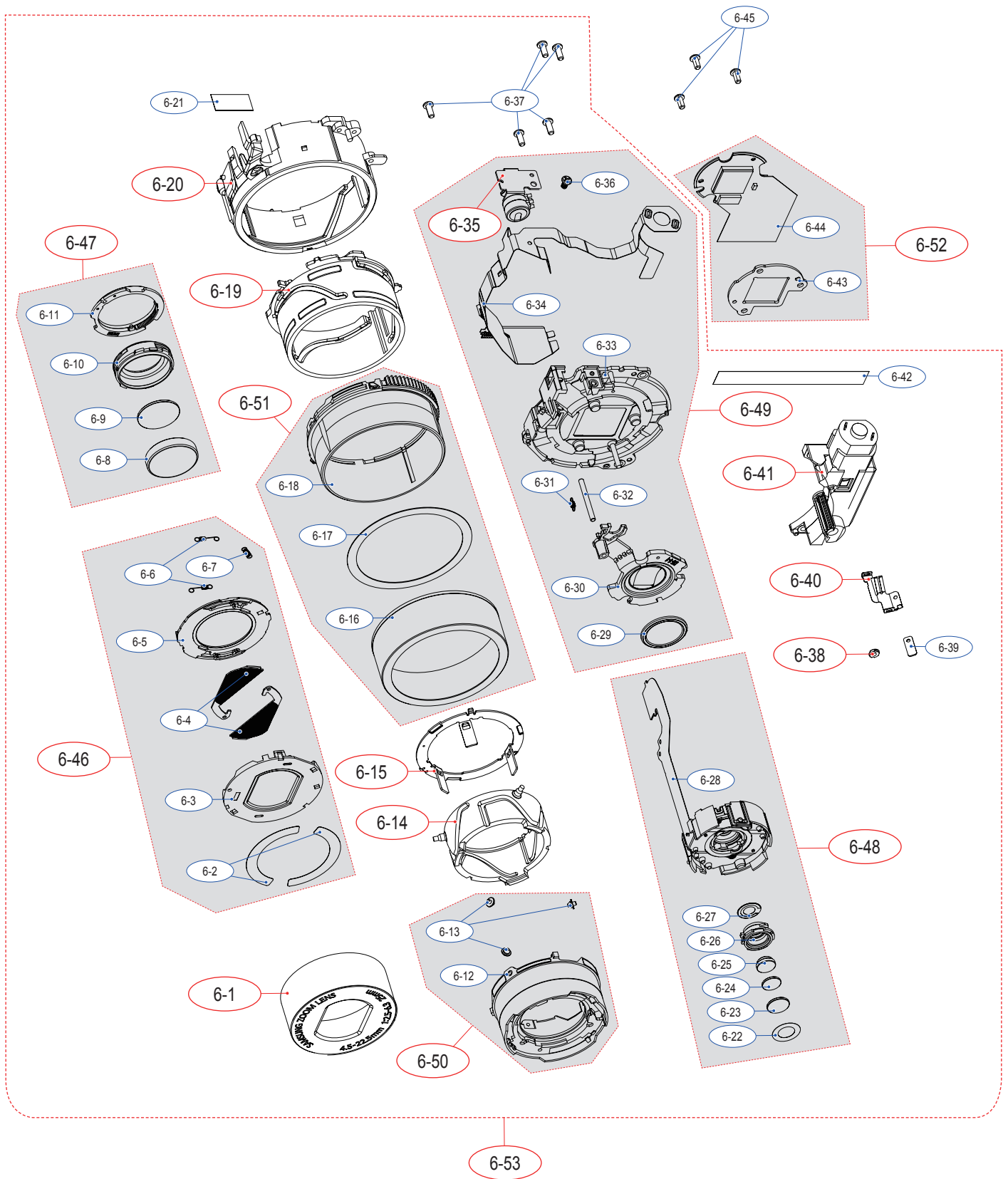
Loc. No	Parts No.	Description	Q ty	Available	Remark
4-1	AD63-06709A	COVER FRONT BK_DV300F_DV30F	1	X	BLACK
	AD63-06709B	COVER FRONT SL_DV300F_DV30F	1	X	SILVER
	AD63-06709D	COVER FRONT BK_DV300	1	X	BLACK
	AD63-06709E	COVER FRONT SL_DV300	1	X	SILVER
4-2	AD63-06778A	SHEET GND CHAMBER	1	X	
4-3	AD63-06731A	T/SHEET DECO FRONT	1	X	
4-4	AD64-03605A	DECO COVER FRONT_BK	1	X	BLACK
	AD64-03605B	DECO COVER FRONT_BL	1	X	BLUE
	AD64-03605C	DECO COVER FRONT_RD	1	X	RED
	AD64-03605D	DECO COVER FRONT_PP	1	X	PLUM
4-5	AD64-03610A	DECORATION FRONT RING_BK	1	X	BLACK
	AD64-03610B	DECORATION FRONT RING_SL	1	X	SILVER
4-6	AD63-06732A	T/SHEET DECO FRONT RING	1	X	
4-7	AD63-06881A	SHEET GASKET FRONT	1	X	
4-8	AD63-06639A	CUSHION SUB LCD	1	X	
4-9	AD07-00157A	SUB LCD	1	O	
4-10	AD63-06853A	T/SHEET SUB LCD	1	X	
4-11	AD63-06776A	CUSHION SUB LCD BACK	1	O	
4-12	AD68-07057A	LABEL PRODUCT	1	X	
4-13	AD97-21916A	ASSY F/C_SUB_BK_DV300F_305F	1	O	BLACK
	AD97-21916B	ASSY F/C_SUB_BL_DV300F_305F	1	O	BLUE
	AD97-21916C	ASSY F/C_SUB_RED_DV300F_305F	1	O	RED
	AD97-22383A	ASSY F/C_SUB_PP_DV300F_305F	1	O	PLUM
	AD97-22326A	ASSY F/C_SUB_BK_DV300	1	O	BLACK
	AD97-22326B	ASSY F/C_SUB_BL_DV300	1	O	BLUE
	AD97-22326C	ASSY F/C_SUB_RED_DV300	1	O	RED
	AD97-22375A	ASSY F/C_SUB_PP_DV300	1	O	PLUM

8-5 BACK COVER ASSEMBLY



Loc. No	Parts No.	Description	Q ty	Available	Remark
5-1	AD63-06710A	COVER BACK BK	1	X	BLACK
	AD63-06710B	COVER BACK BL	1	X	BLUE
	AD63-06710C	COVER BACK RD	1	X	RED
	AD63-06710D	COVER BACK PP	1	X	PLUM
5-2	AD64-03606A	WINDOW LED REAR	1	X	
5-3	AD64-03609A	BUTTON BACK BK	1	X	BLACK
	AD64-03609B	BUTTON BACK BL	1	X	BLUE
	AD64-03609C	BUTTON BACK RD	1	X	RED
	AD64-03609W	BUTTON BACK PP	1	X	PLUM
5-4	AD64-03608A	BUTTON OK BK	1	X	BLACK
	AD64-03608U	BUTTON OK BL	1	X	BLUE
	AD64-03608V	BUTTON OK RD	1	X	RED
	AD64-03608W	BUTTON OK PP	2	X	PLUM
5-5	AD61-05575A	HOLDER STRAP	1	O	
5-6	AD97-21895A	ASSY COVER BACK_BK	1	O	BLACK
	AD97-21895B	ASSY COVER BACK_BL	1	O	BLUE
	AD97-21895C	ASSY COVER BACK_RD	1	O	RED
	AD97-21895D	ASSY COVER BACK_PP	1	O	PLUM

8-6 BARREL ASSEMBLY

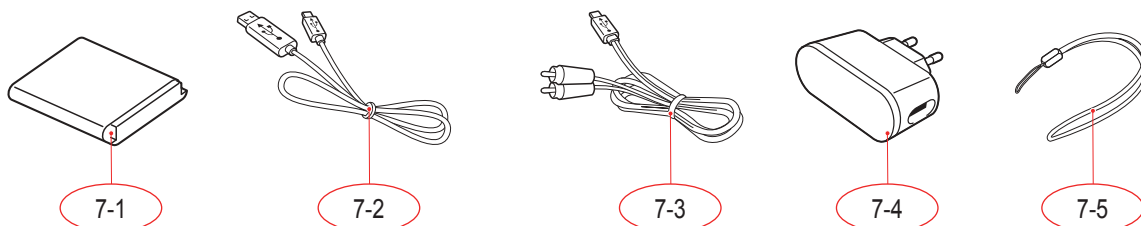


Exploded view and parts list

Loc. No	Parts No.	Description	Q ty	Available	Remark
6-1	AD64-03543A	DECO RING-FRONT_BK	1	O	BLACK
	AD64-03658A	DECO RING-FRONT_SL	1	O	SILVER
6-2	AD63-04522A	T/SHEET-FRONT	2	X	
6-3	AD63-06509A	BARRIER-PANEL_BK	1	X	BLACK
	AD63-06808A	BARRIER-PANEL_SL	1	X	SILVER
6-4	AD63-06511A	BARRIER-BLADE_BK	2	X	BLACK
	AD63-06803A	BARRIER-BLADE_SL	2	X	SILVER
6-5	AD63-06510A	BARRIER-LEVER	1	X	
6-6	6107-003160	SPRING-ES	2	x	
6-7	6107-003161	SPRING-ES	1	X	
6-8	AD67-02335A	LENS-G1	1	X	
6-9	AD67-02336A	LENS-G2	1	X	
6-10	AD67-02358A	BARREL-1ST	1	X	
6-11	AD67-02361A	BARREL-SLIPRING	1	X	
6-12	AD67-02362A	BARREL-ZOOMRING	1	X	
6-13	AD66-00985A	SHAFT-ZOOMRING PIN	3	X	
6-14	AD67-02364A	BARREL-INNER CAM	1	O	
6-15	AD61-05495A	PLATE-INNER GUIDE	1	O	
6-16	AD64-03544A	DECO RING-CAM_BK	1	X	BLACK
	AD64-03654A	DECO RING-CAM_SL	1	X	SILVER
6-17	AD63-06796A	SHIELD-CAM	1	X	
6-18	AD67-02363A	BARREL-OUTER CAM	1	X	
6-19	AD67-02365A	BARREL-OUTER GUIDE	1	O	
6-20	AD67-02366A	BARREL-BASE	1	O	
6-21	AD81-04801A	A/S-MAIN PCB TAPE	1	X	
6-22	AD63-06512A	SHEET-G3	1	X	
6-23	AD67-02339A	LENS ASP LENS-G3	1	X	
6-24	AD67-02337A	LENS-G4	1	X	
6-25	AD67-02338A	LENS	1	X	
6-26	AD67-02359A	BARREL-2ND	1	X	
6-27	AD63-06513A	SHEET-G5	1	X	
6-28	AD97-21682A	ASSY SHUTTER-OIS	1	X	
6-29	AD67-02340A	LENS ASP LENS-G6	1	X	
6-30	AD67-02360A	BARREL-3RD	1	X	
6-31	6107-003159	SPRING-ES	1	X	
6-32	AD66-00984A	SHAFT-AF GUIDE	1	X	
6-33	AD61-05494A	BASE-LENS	1	X	
6-34	AD94-00250A	ASSY SMD INSERT-OIS	1	X	

Loc. No	Parts No.	Description	Q ty	Available	Remark
6-35	AD97-21679A	ASSY MOTOR	1	O	
6-36	6003-001369	SCREW-TAPTYPE	1	X	
6-37	6003-001630	SCREW-TAPTYPE	5	X	
6-38	AD67-01744A	BARREL-DECENT_RING	1	O	
6-39	AD63-06739A	SHEET-GASKET-D5	1	X	
6-40	AD61-05620A	PLATE-GASKET HOLDER-D5	1	O	
6-41	AD97-21680A	ASSY ZOOM-0523-D5	1	O	
6-42	AD63-04560A	T/SHEET-MOTOR_5717	1	X	
6-43	AD61-05507A	PLATE-CCD HOLDER	1	X	
6-44	AD94-00257A	ASSY SMD INSERT-CCD	1	X	
6-45	6003-001369	SCREW-TAPTYPE	3	X	
6-46	AD97-21933A	ASSY BARRIER_BK	1	O	BLACK
	AD97-22106A	ASSY BARRIER_SL	1	O	SILVER
6-47	AD97-21646A	ASSY LENS-1ST GROUP	1	O	
6-48	AD97-21928A	ASSY SUB BARREL-2ND_OIS	1	O	
6-49	AD97-21931A	ASSY LENS BASE_OIS	1	O	
6-50	AD97-21929A	ASSY SUB BARREL-ZOOMRING	1	O	
6-51	AD97-21930A	ASSY SUB BARREL-OUTERCAM_BK	1	O	BLACK
	AD97-22111A	ASSY SUB BARREL-OUTERCAM_SL	1	O	SILVER
6-52	AD92-01785A	ASSY PCB FPC-CCD	1	O	
6-53	AD97-21935A	ASSY BARREL_BK_OIS	1	O	BLACK
	AD97-22096A	ASSY BARREL_SL_OIS	1	O	SILVER

8-7 PACKING ITEMS



Loc. No	Parts No.	Description	Q ty	Available	Remark
7-1	AD43-00203A	BP88A_BATTERY	1	0	
7-2	AD39-00190A	CB5MU05E_USB CABEL	1	0	
7-3	AD39-00191A	AV_CABLE-MICRO USB	1	0	
7-4	AD44-00178A	AD5055_KOR_AC ADAPTOR	1	0	
	AD44-00184A	AD5055_CHI	1	0	
	AD44-00183A	AD5055_EXP	1	0	
	AD44-00179A	AD5055_USA	1	0	
	AD44-00182A	AD5055_UK	1	0	
	AD44-00185A	AD5055_AUS	1	0	
	AD44-00181A	AD5055_ARG	1	0	
	AD44-00180A	AD5055_BRA	1	0	
7-5	AD63-02604A	STRAP_KENOX_S860_BLACK	1	0	
7-6	AD63-02596A	STRAP_KENOX_S730_SILVER	1	0	



Area	Web Site
Europe, MENA, CIS, Africa	https://gspn1.samsungcsportal.com
E.Asia, W.Asia, China, Japan	https://gspn2.samsungcsportal.com
N.America, S.America	https://gspn3.samsungcsportal.com

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