

ILCE-7M4

SERVICE MANUAL

Ver. 1.0 2023.12

Conditions of Use/Revision of

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Conditions of Use

- DISCLAIMER: USE AT OWN RISK. SONY AND ITS AFFILIATES ARE NOT LIABLE FOR ANY DAMAGE OR INJURY CAUSED TO ANY DIGITAL ELECTRONIC EQUIPMENT, PERSON, OR PROPERTY, WHICH OCCURS DUE TO USE OF THE TOOLS, PARTS, DOCUMENTATION, OR OTHER MATERIALS HEREIN PROVIDED, WHETHER FOR REPAIR, DIAGNOSIS, MAINTENANCE, MODIFICATION, OR OTHERWISE, INCLUDING BUT NOT LIMITED TO: ANY INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES; ANY LOSS OF DATA, PRIVACY OR PROFITS; OR ANY INABILITY TO USE, OR REDUCED FUNCTIONALITY OF, THE DIGITAL ELECTRONIC EQUIPMENT. PLEASE READ ALL INSTRUCTIONS IN THIS MANUAL BEFORE PROCEEDING. PLEASE FOLLOW ALL STEPS IN THE ORDER IN WHICH THEY ARE DESCRIBED. IF YOU DO NOT HAVE ALL TOOLS AND PARTS AVAILABLE TO YOU, OR ARE NOT COMFORTABLE PERFORMING THE REPAIRS DESCRIBED HEREIN, DO NOT PROCEED. FAILURE TO FOLLOW THESE INSTRUCTIONS, OR USE THE PROPER TOOLS AND PARTS, MAY DAMAGE YOUR PRODUCT, LEAD TO PERSONAL INJURY OR CAUSE PROPERTY DAMAGE.

Note

Be sure to keep your PC used for service and checking of this unit always updated with the latest version of your anti-virus software.

Revision of Information

This information may be changed or updated at any time without any prior notice. Please confirm that this information is up-to-date before using it.

Close

SERVICE NOTE

ASSEMBLY

FRAME SCHEMATIC
DIAGRAMS

About the service of the
ILCE-7M4K is commodity type
Refer to each following series

Model	
ILCE-7M4	No. 1
ILCE-7M4K	SEL

989691061
2023L_S-1 © 2023.12

Sony Corporation

ILCE-7M4/7M4K

SERVICE MANUAL

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INTERCHANGEABLE LENS DIGITAL CAMERA

SERVICE NOTE	DISASSEMBLY	
	EXPLODED VIEWS	SUPPLIED ACCESSORIES
	FRAME SCHEMATIC DIAGRAMS	

About the service of this model

ILCE-7M4K is commodity that packed the Interchangeable Lens Digital Camera and Interchangeable Lens.
Refer to each following service manual the Interchangeable Lens kit, when you repair.

Model	Lens
ILCE-7M4	No supplied lens
ILCE-7M4K	SEL2870 (FE 28-70mm F3.5-5.6 OSS)

SERVICE NOTE

PLASTIC PARTS

Be careful to the following points for plastic parts used in this unit.

- Use a piece of cleaning paper or cleaning cloth for cleaning plastic parts. Avoid using chemicals. Even if you have to use chemicals to clean heavy dirt, do not use paint thinner, ketone, nor alcohol.
- Insert the specific screws vertically to the part when installing an plastic part.
Be careful not to tighten screws too much.

SAFETY CHECK-OUT

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

1. Please follow the precautions. Areas that require special attention during service are marked with labels or stamps on cabinets, chassis, parts, etc. Please be sure to follow these precautions and instructions in the instruction manual.
2. For safety reasons, be sure to return all parts installation and wiring to their original positions.
3. Please perform a safety inspection after service. Make sure that the removed screws, parts, and wiring are in their original condition, and that there is no deterioration in the area surrounding the serviced area to ensure safety.

Caution

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

HANDLING WATERPROOF POTTED COMPONENTS

Do not touch or hit the waterproof potted parts with your hands.

Work upright when removing and assembling waterproof potted components. Working at an angle will cause the waterproof potting material to come off.

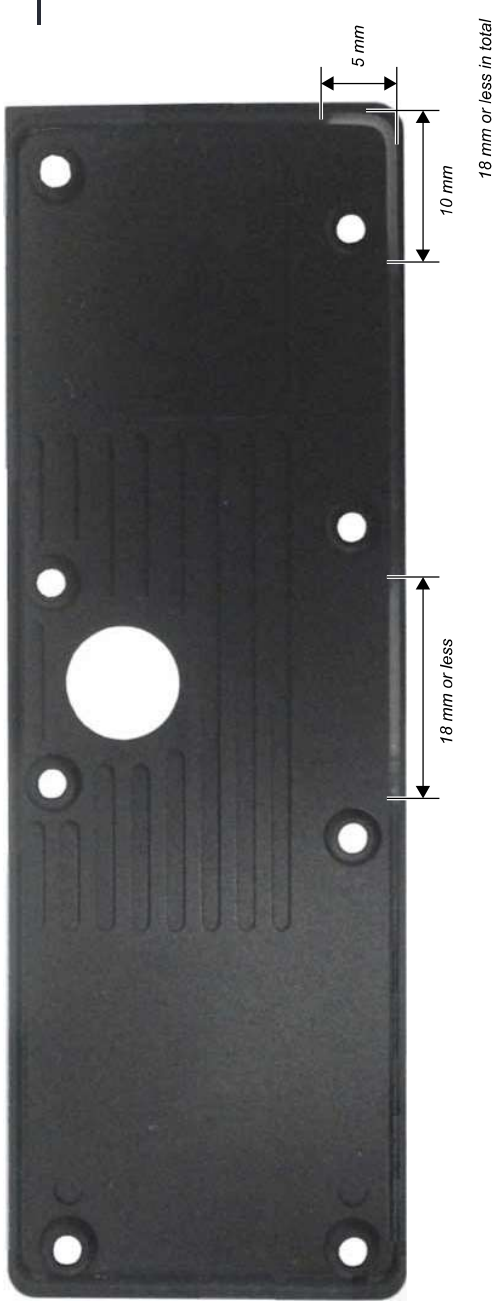
Be careful to keep dust away when assembling. Use a blower to blow away dust. (Make sure it is not too strong)

Do not wipe with solvents.

If the waterproof potting material comes off, it will appear white.

If an area appears white, refer to the following and replace the part.

- If the part coming off (white part) is 18 mm or less, it can be reused. Replacement is not necessary.
- Even if there are parts coming off (white parts) adjacent to each other or in multiple areas, they can be reused if they are 18 mm or less per area. Replacement is not necessary.
- If the part coming off (white part) is 18 mm or more, it cannot be reused. Replace the waterproof potted component.



DISASSEMBLY

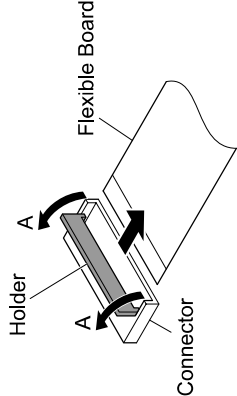
OPERATION NOTES

Make sure that the conductive side of a flexible board does not have any stain or foreign materials.

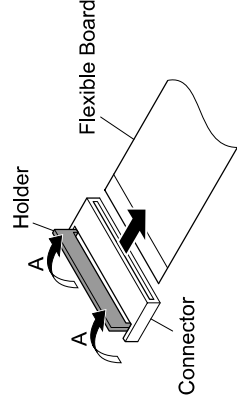
Do not touch the conductive side of flexible boards with bare hands.

When opening the connector's holder in direction A, do not open it with excessive force.

Type 1

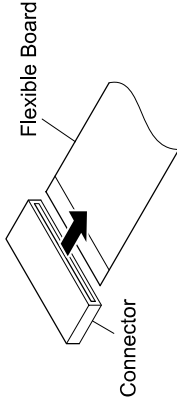


Type 2

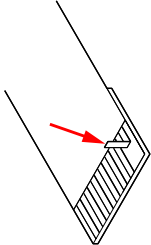


When removing the connector (without holder), pull out a flexible board straight.

Type 3



- Make sure that the flat cable and flexible board are not cracked or bent at the contact end.
- If the terminal is cracked or came off, replace it.

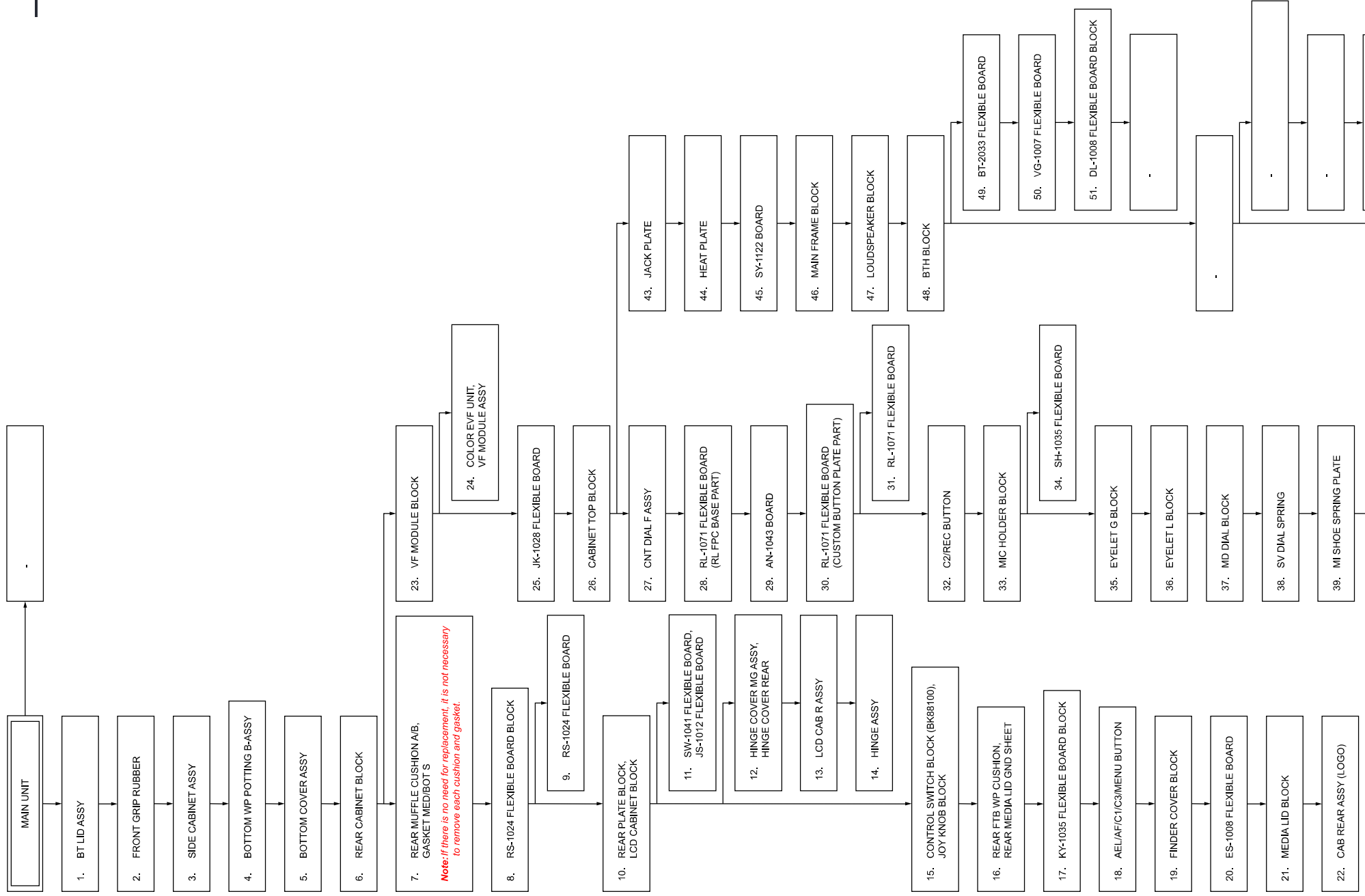


- Do not apply excessive force to the gilded flexible board.
- The proper way to disconnect a connector is to grab the connector instead of the wires. If you pull on the wires, they might be broken.

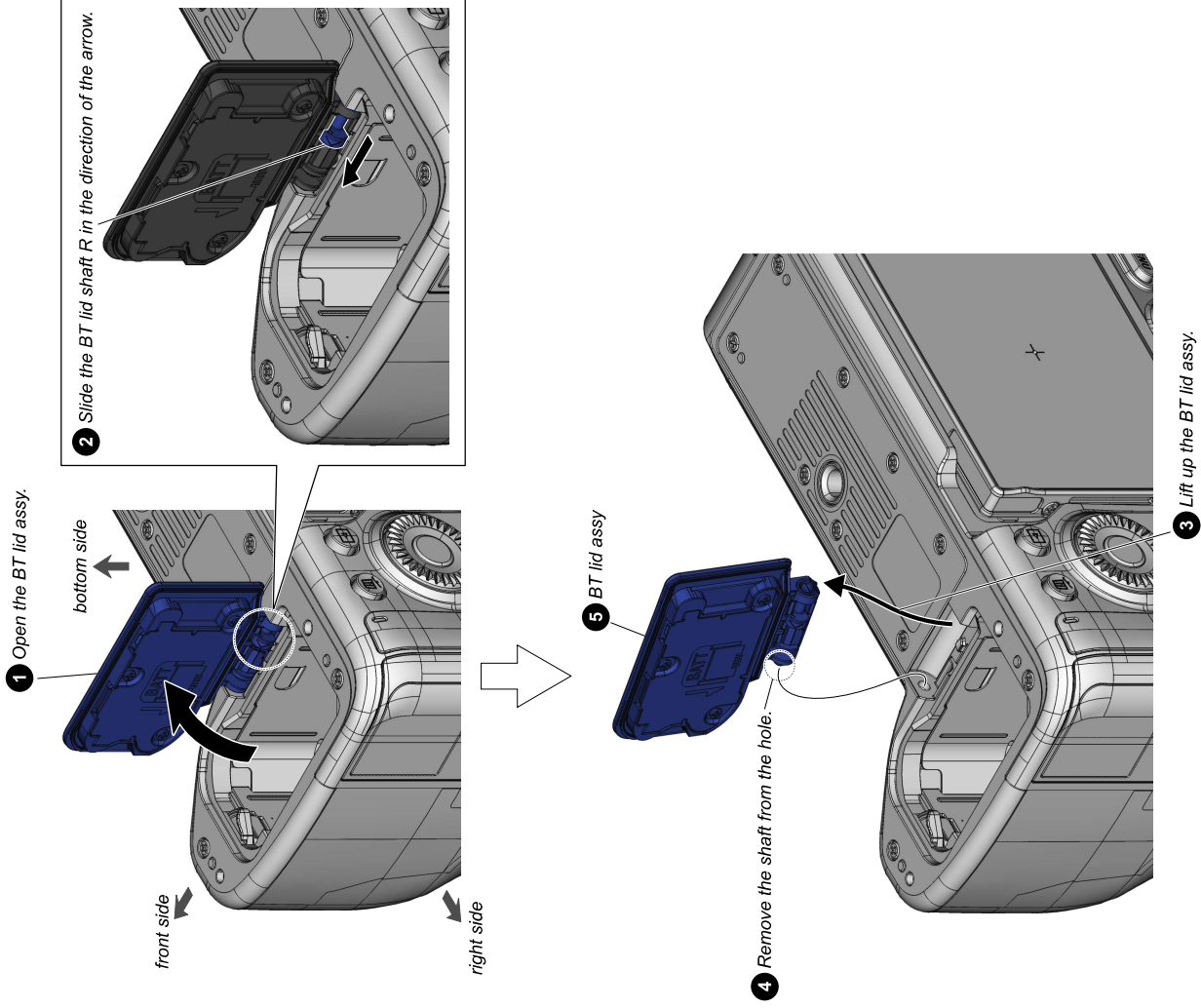
DISASSEMBLY FLOW

This set can be disassembled in the order shown below.

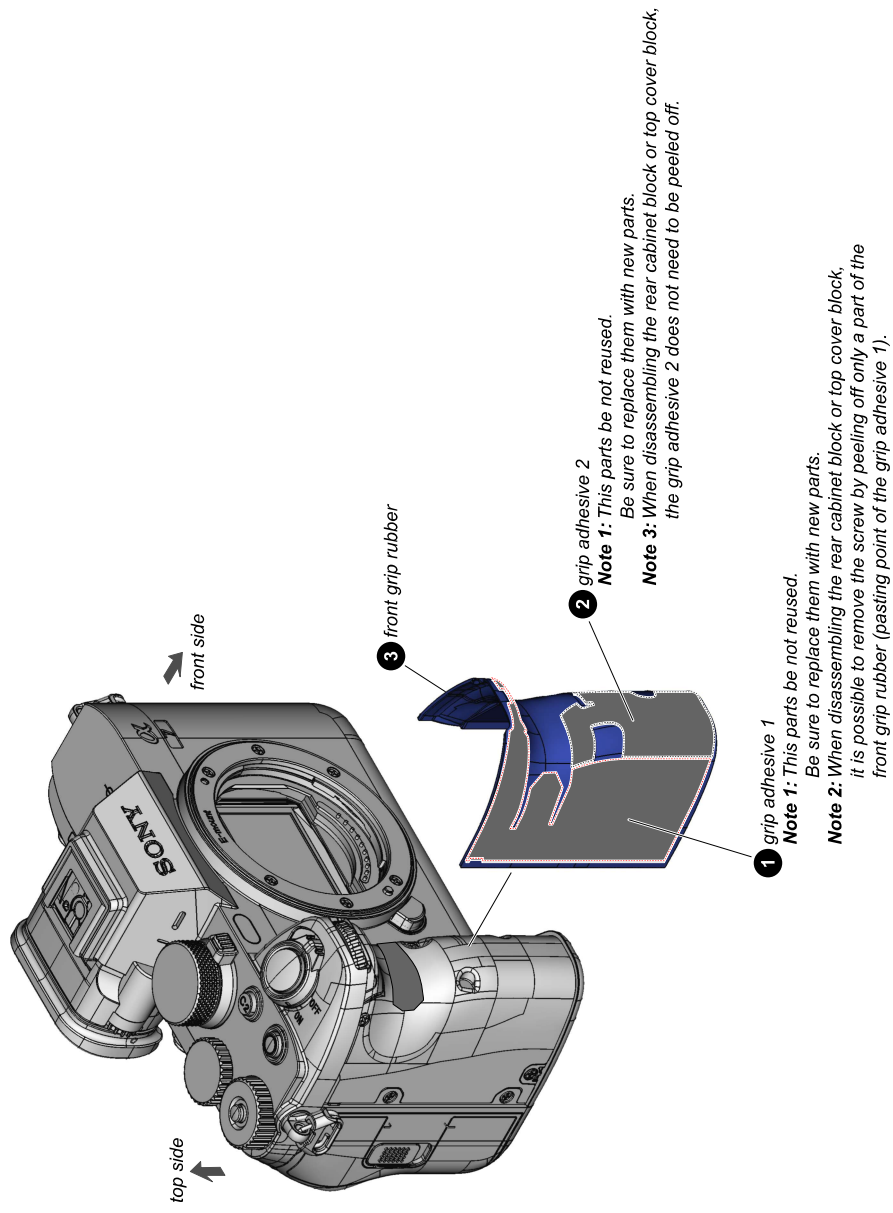
1



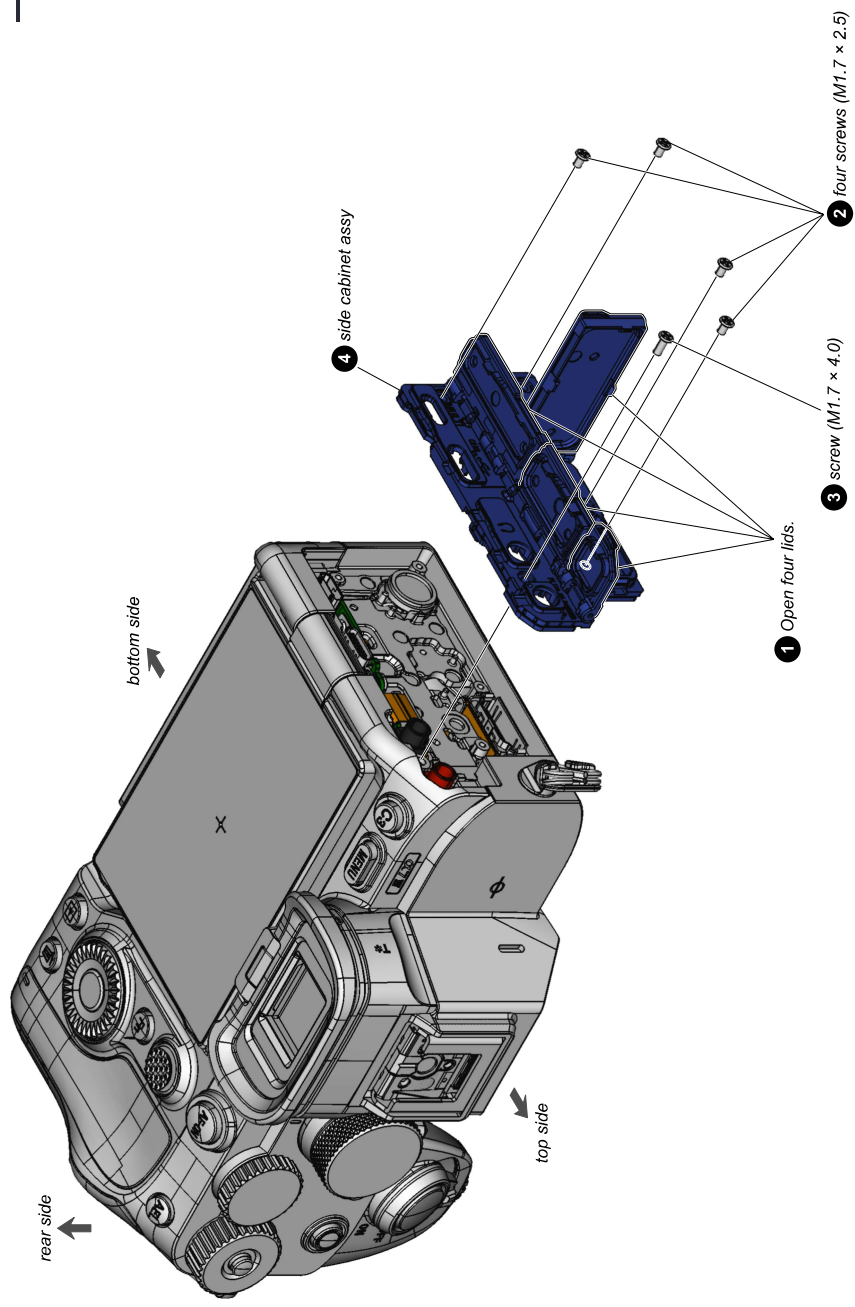
1. BT LID ASSY



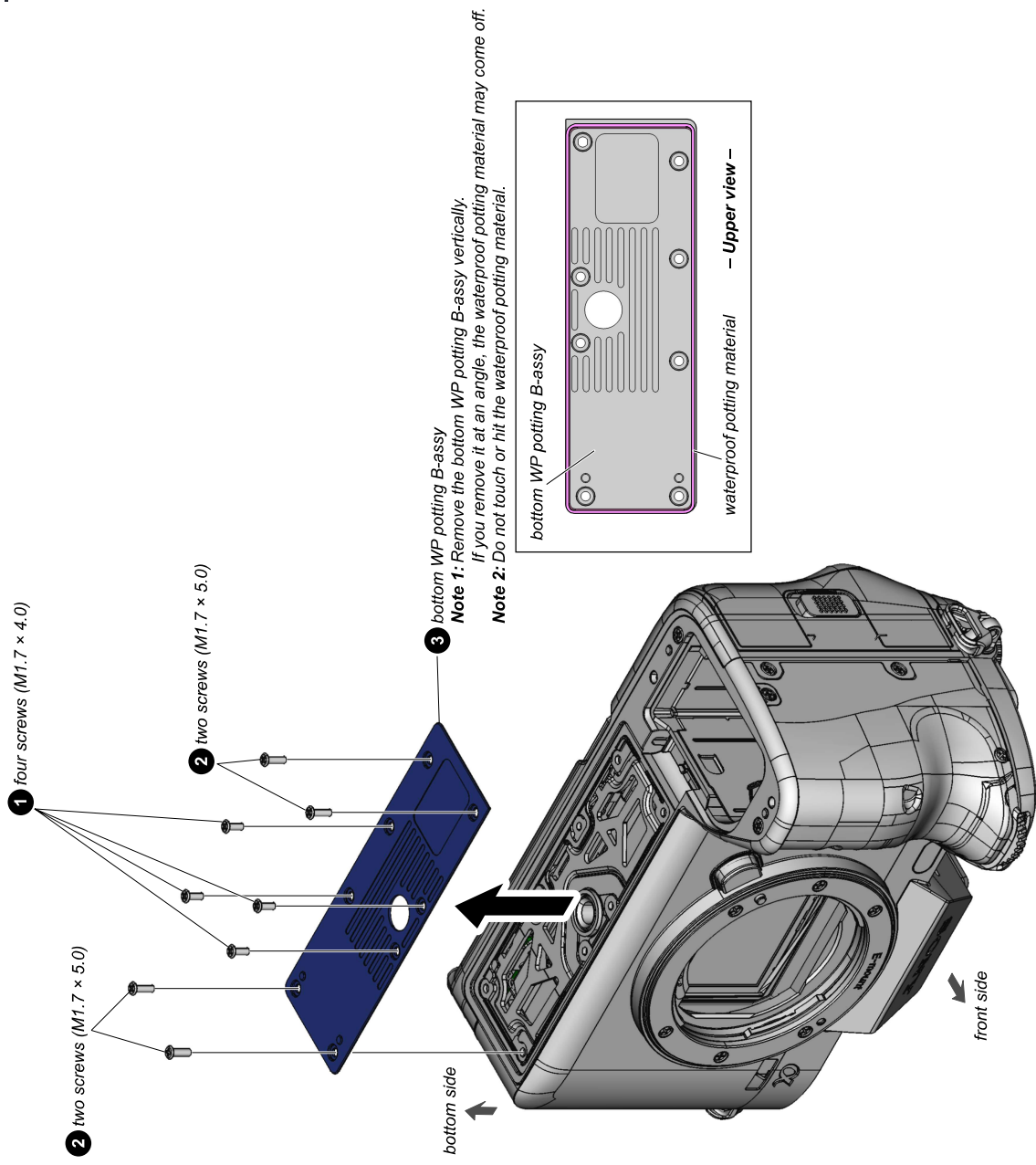
2. FRONT GRIP RUBBER



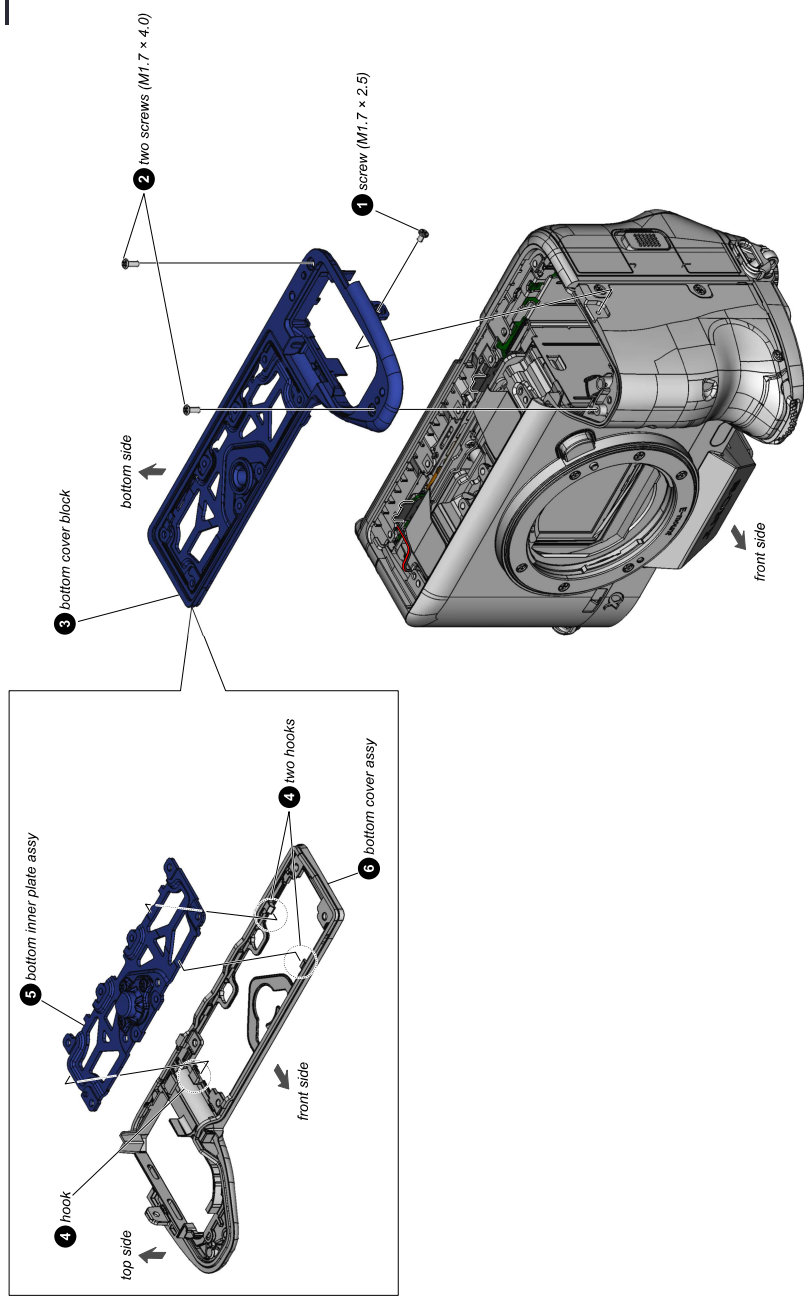
3. SIDE CABINET ASSY

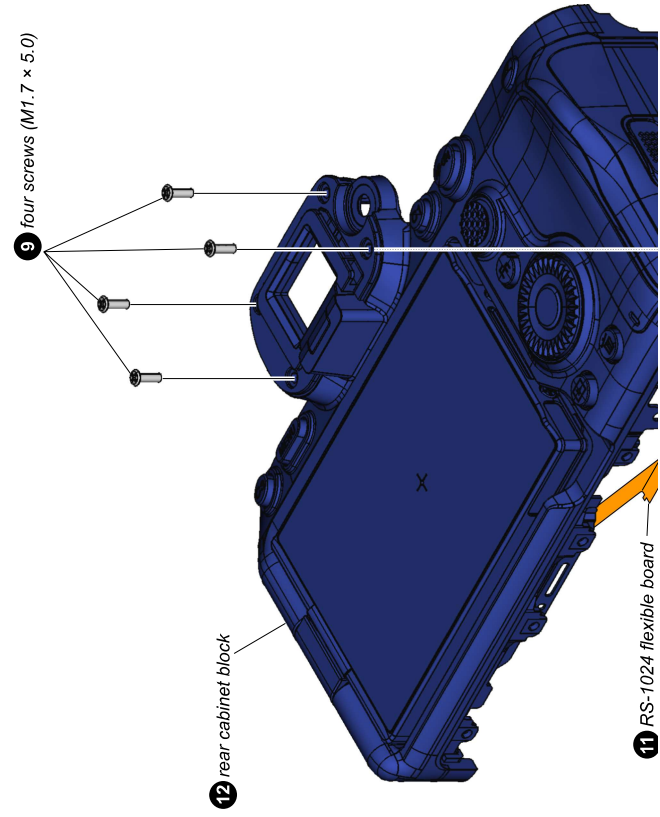
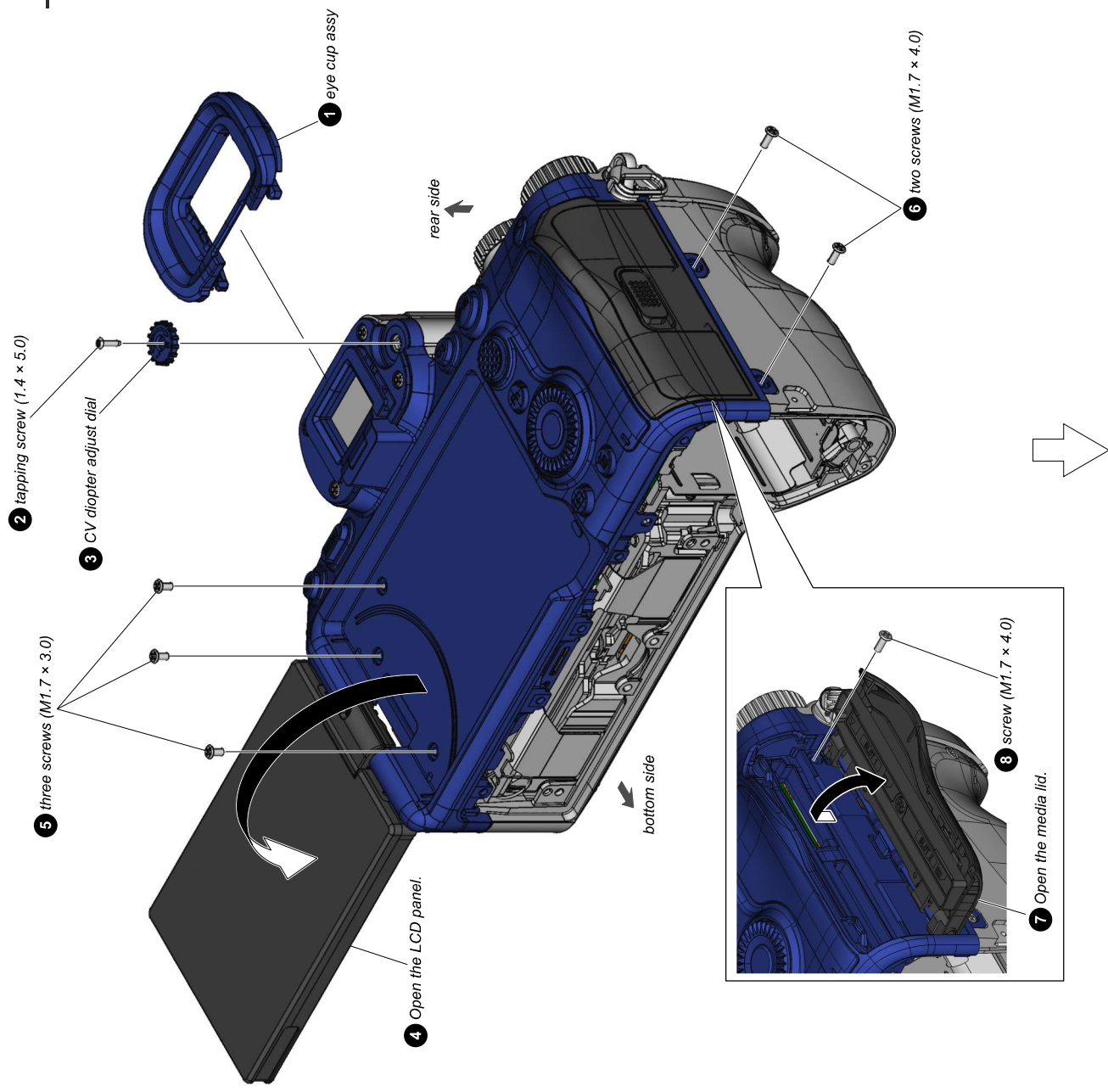


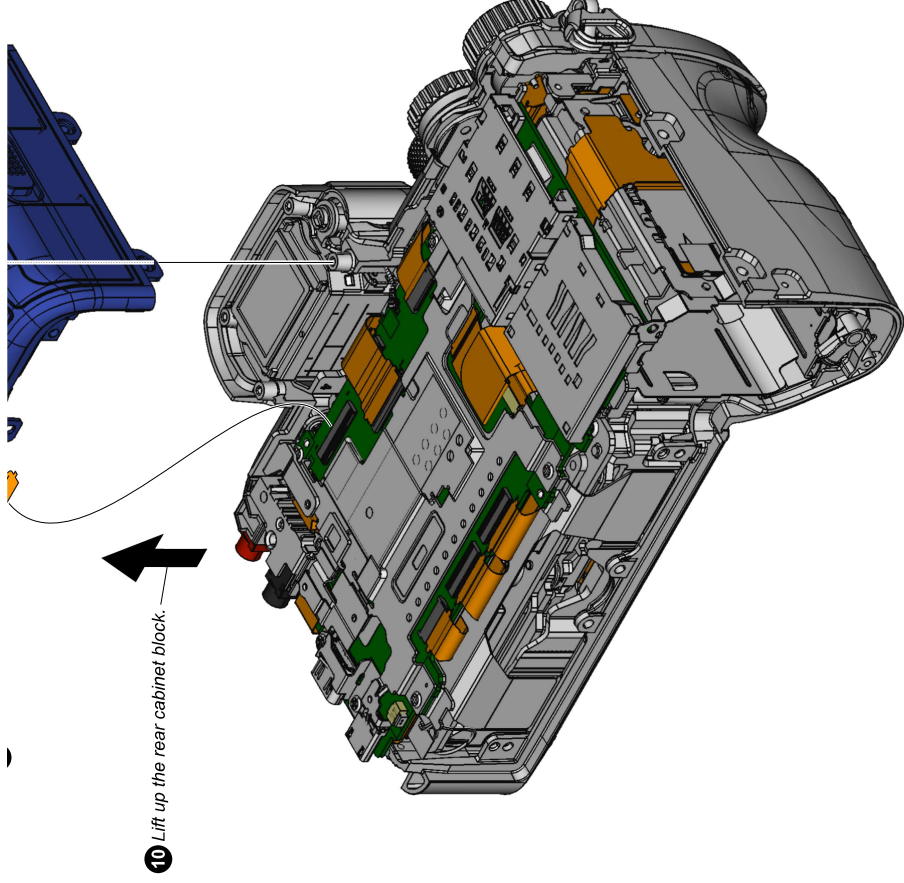
4. BOTTOM WP POTTING B-ASSY



5. BOTTOM COVER ASSY

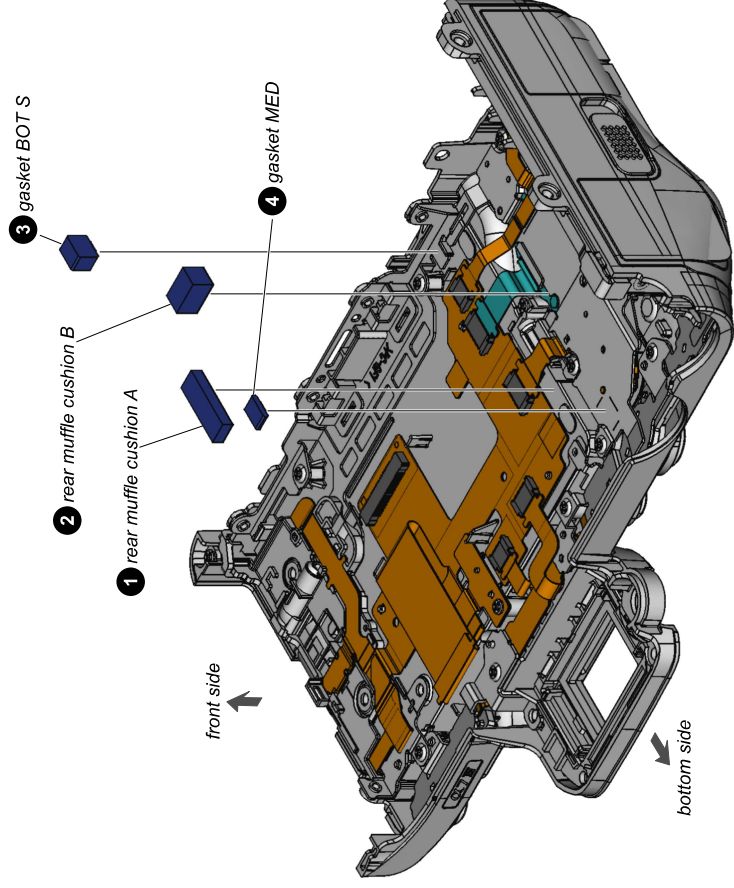




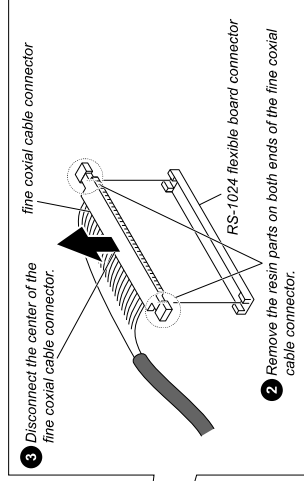
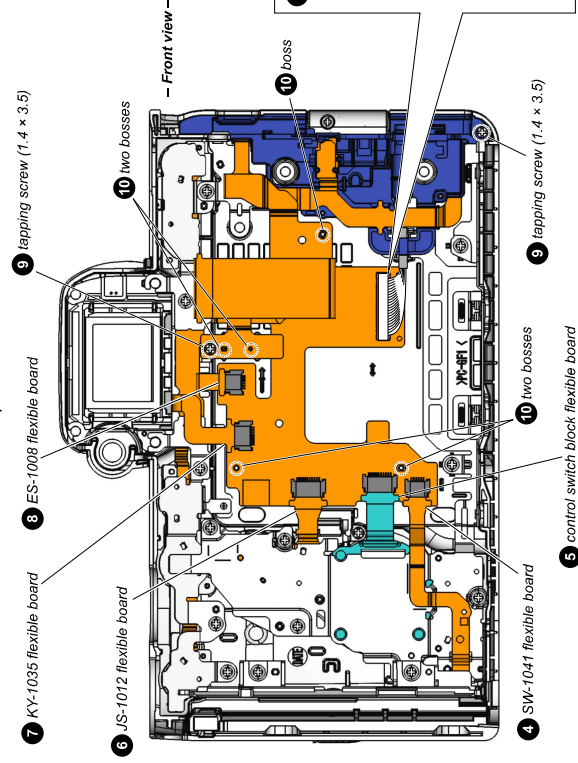
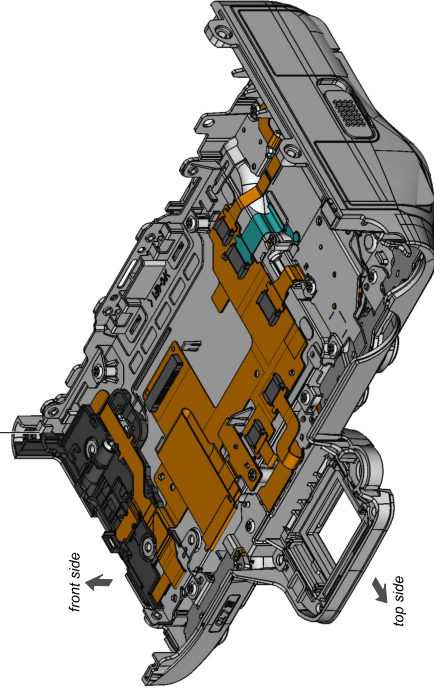


7. REAR MUFFLE CUSHION A/B, GASKET MED/BOT S

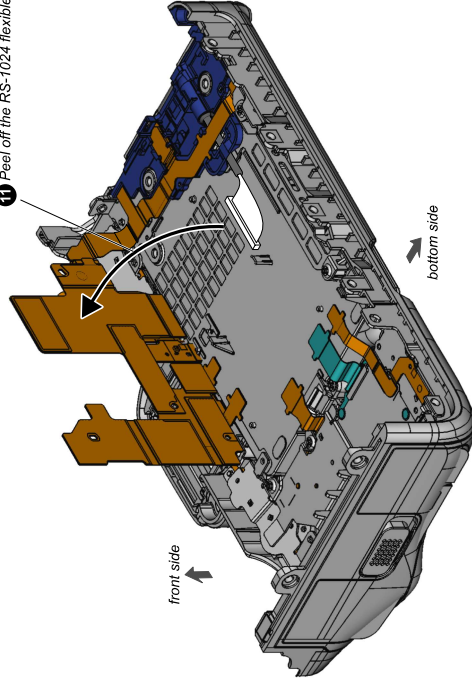
Note: If there is no need for replacement, it is not necessary to remove each cushion and gasket.



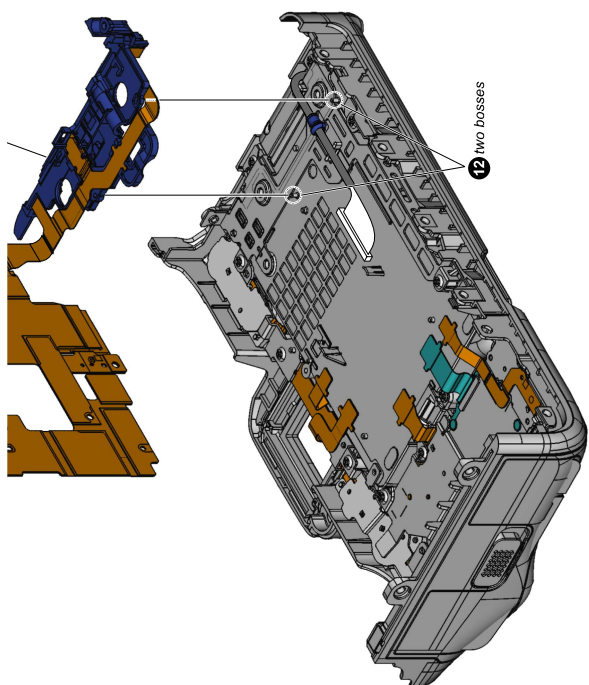
1 rear front WP cushion



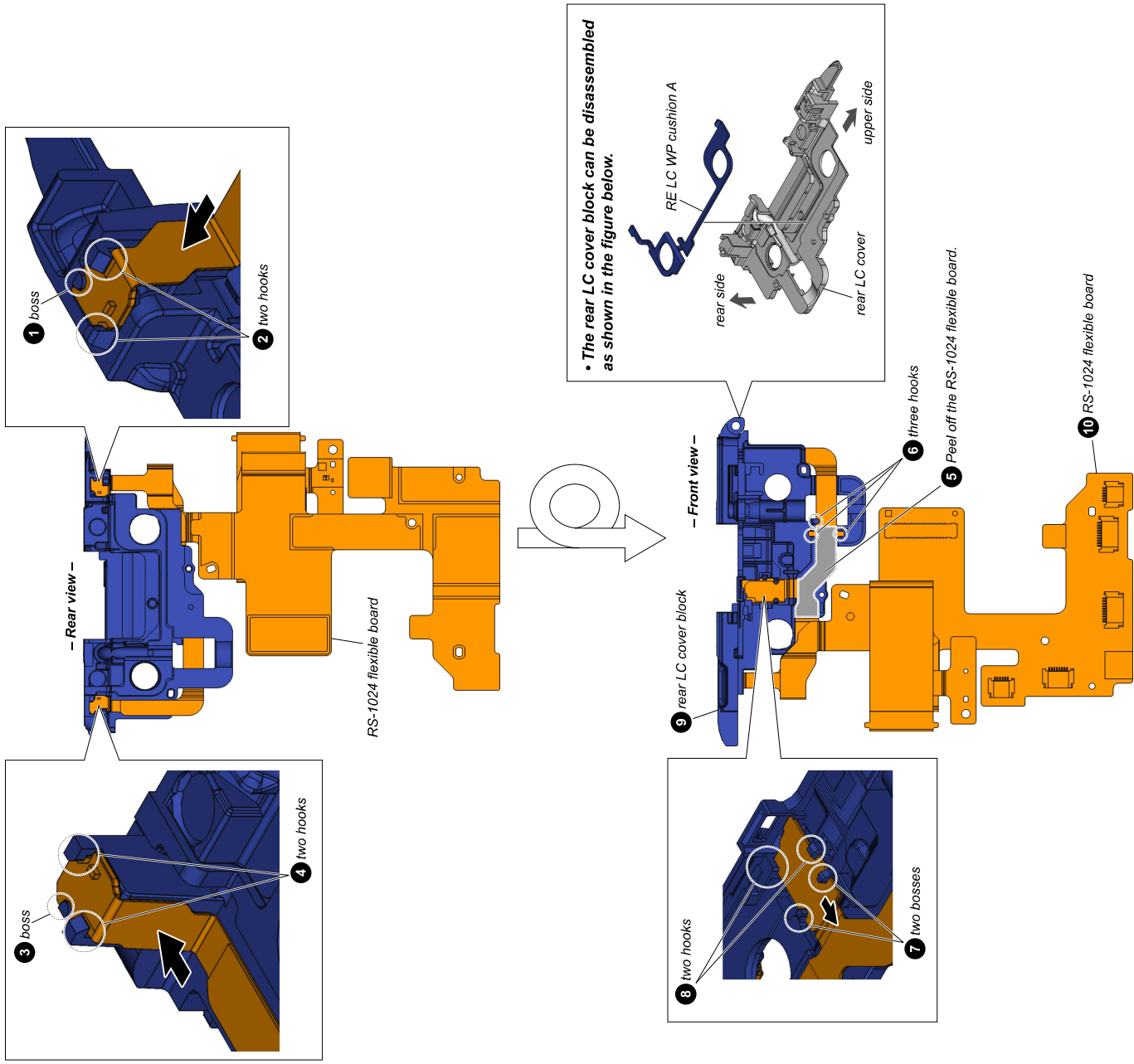
11 Peel off the RS-1024 flexible board in the direction of the arrow.

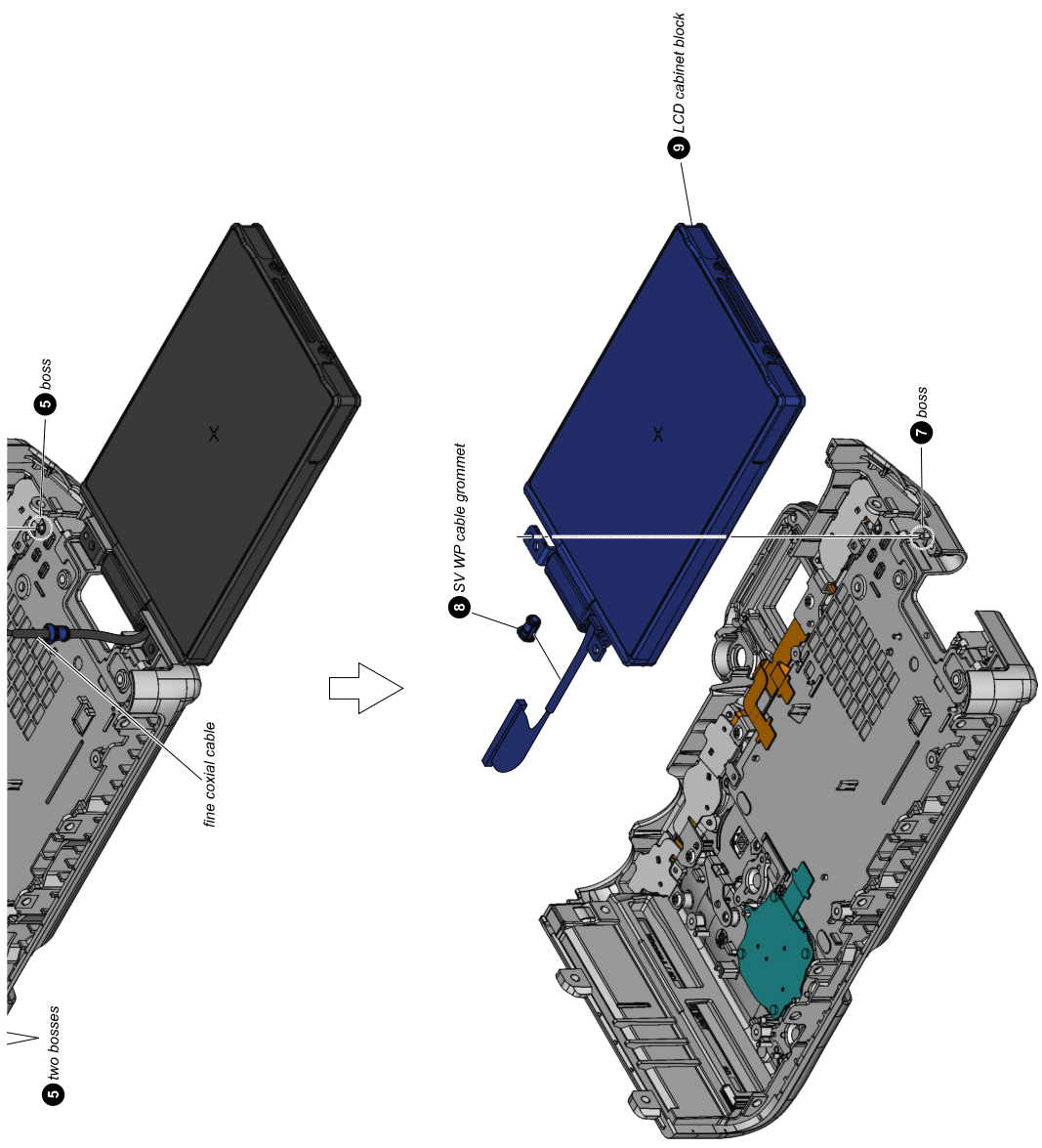


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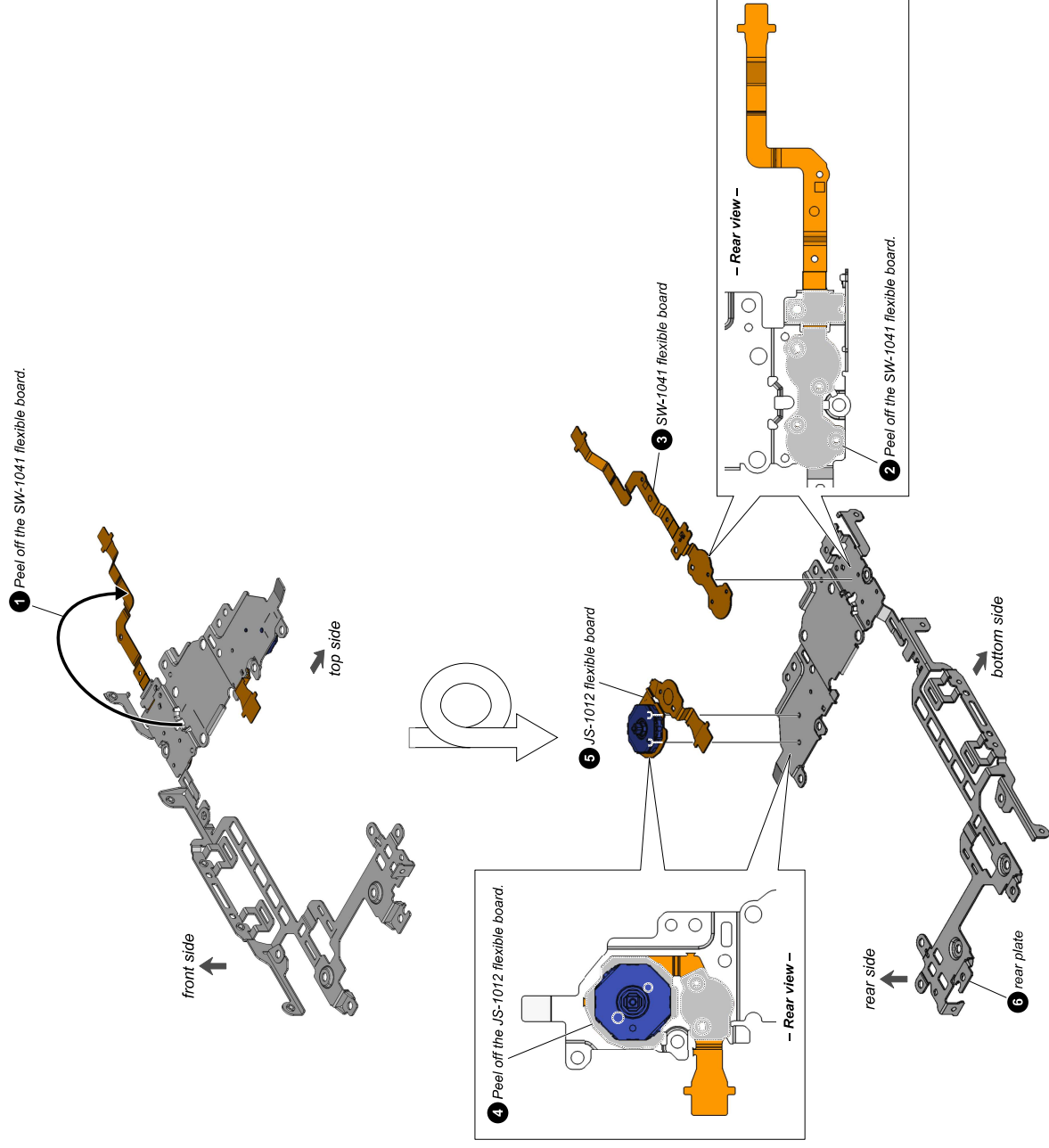


9. RS-1024 FLEXIBLE BOARD

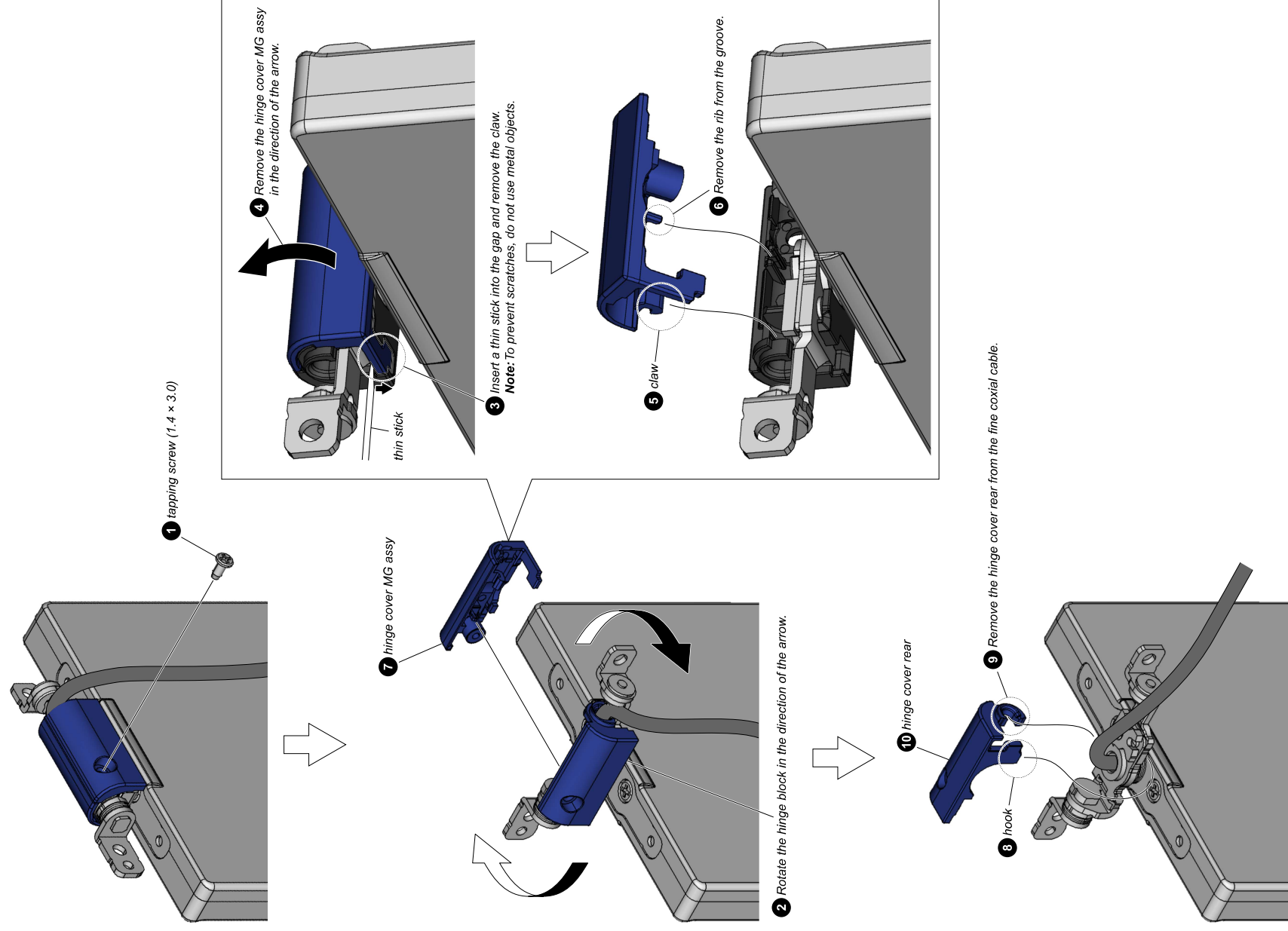




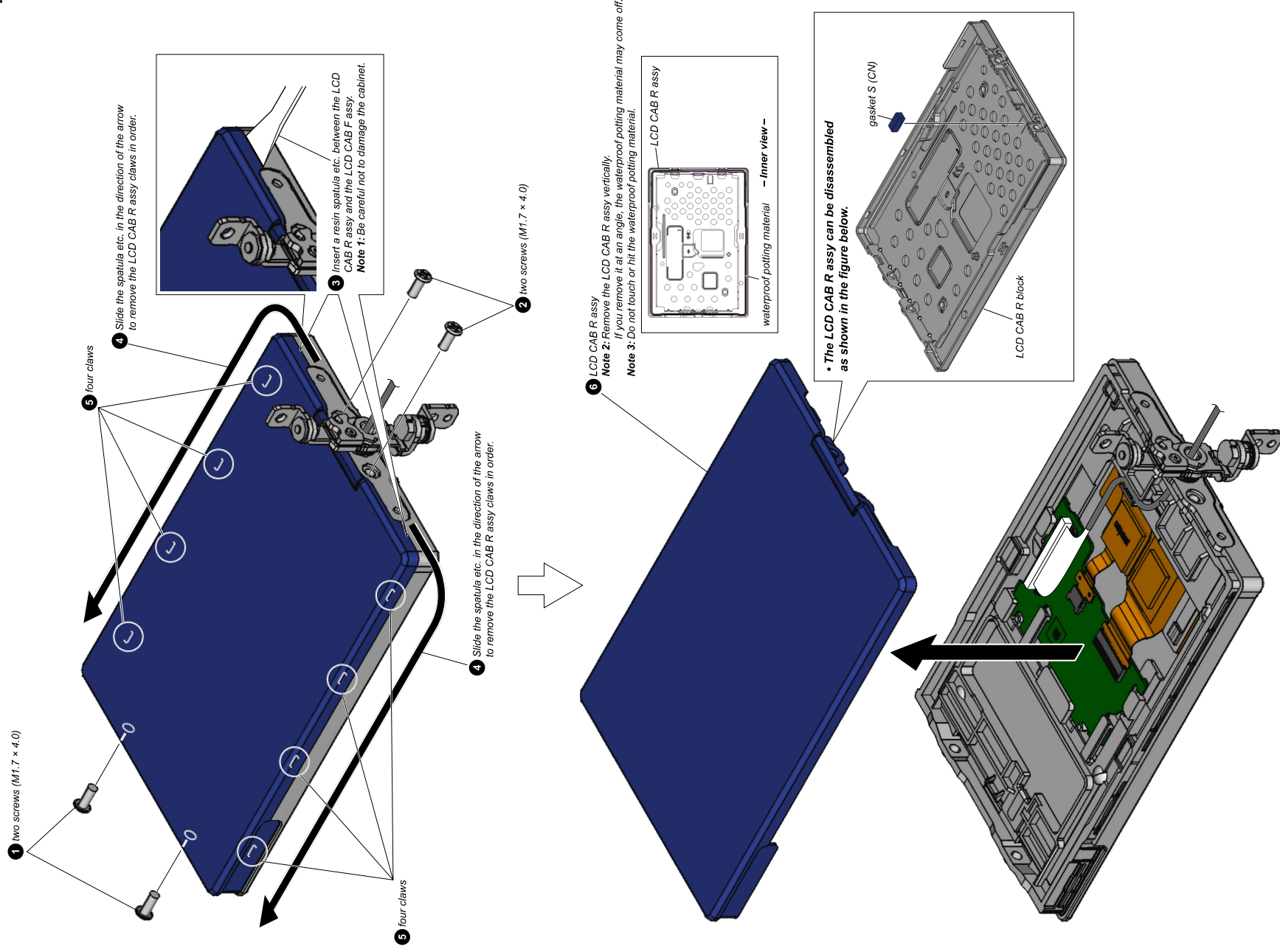
11. SW-1041 FLEXIBLE BOARD, JS-1012 FLEXIBLE BOARD

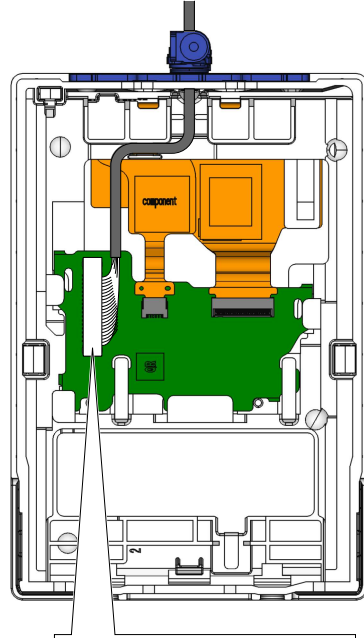


12. HINGE COVER MG ASSY, HINGE COVER REAR

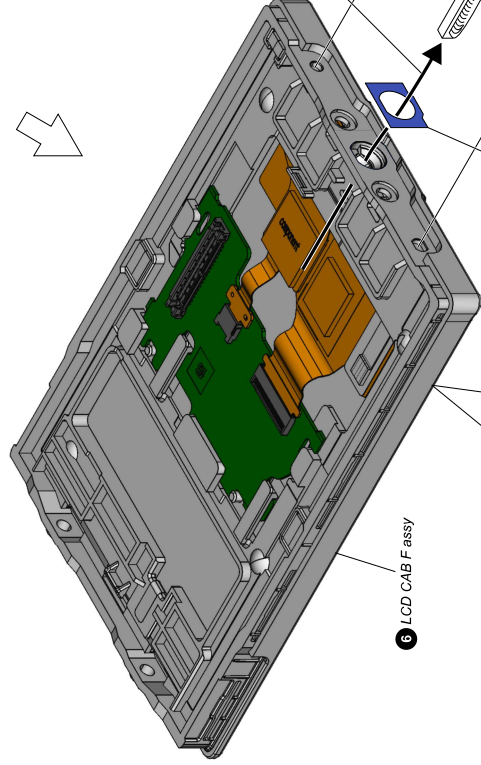


13. LCD CAB R ASSY



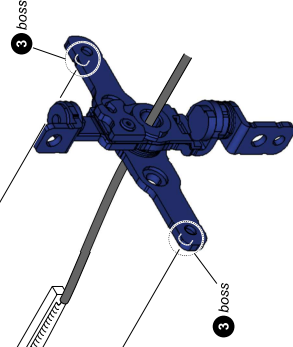


- 1 Remove the resin parts on both ends of the fine coaxial cable connector.
- 2 Disconnect the center of the fine coaxial cable connector.

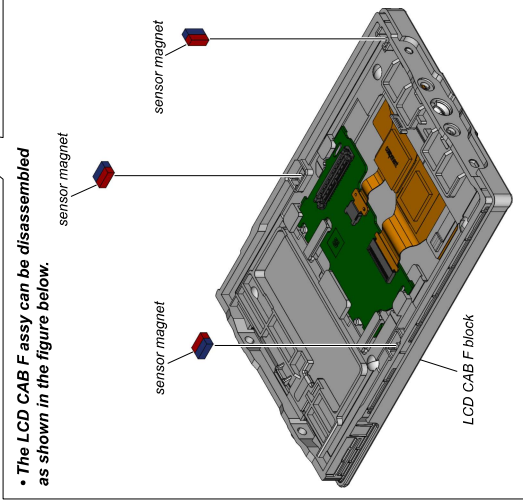


- 4 Draw the fine coaxial cable out of the hole on the LCD CAB F Assy.

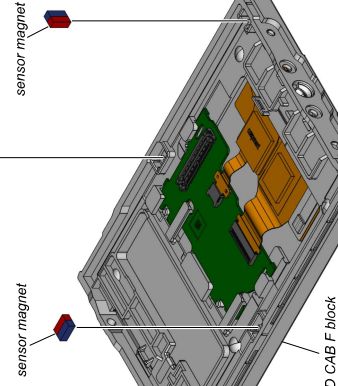
Note: Take care not to damage the fine coaxial cable.



- 5 adhesive (hinge)



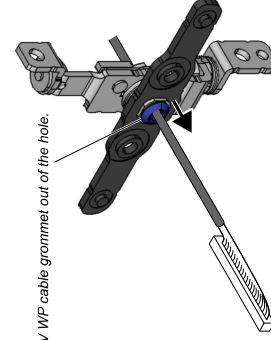
• The LCD CAB F Assy can be disassembled as shown in the figure below.



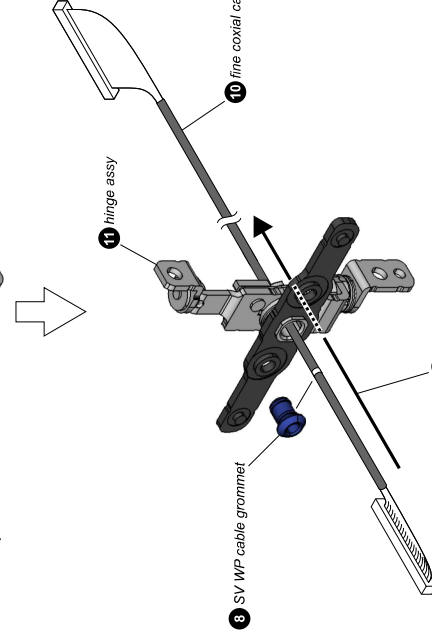
- sensor magnet

- sensor magnet

- sensor magnet



- 7 Draw the SV WP cable grommet out of the hole.



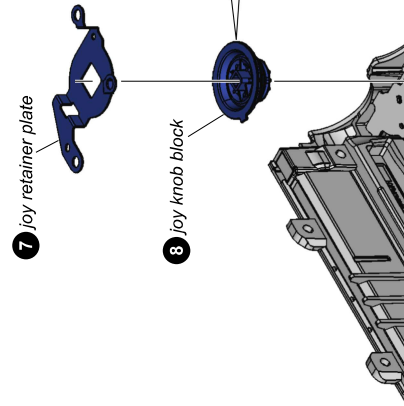
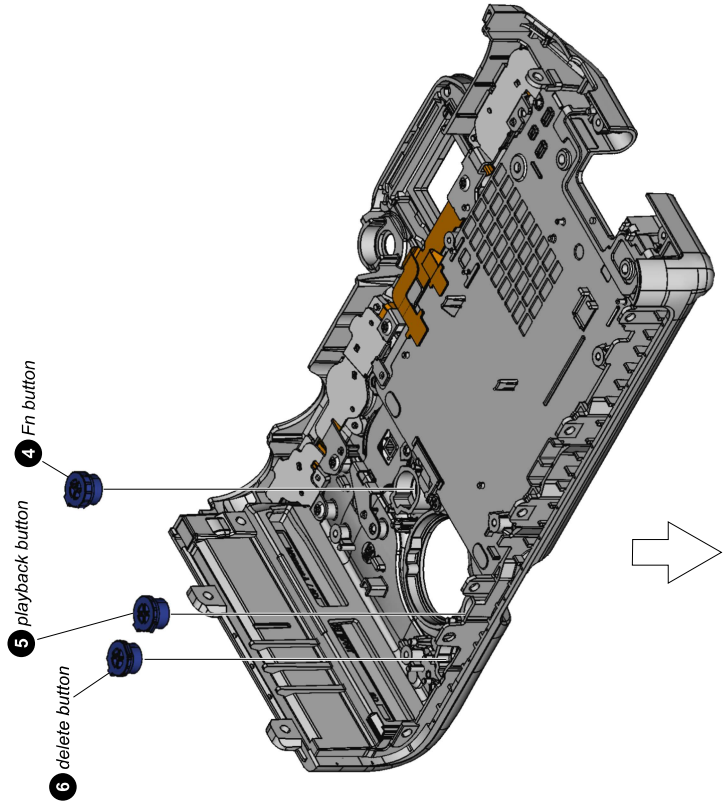
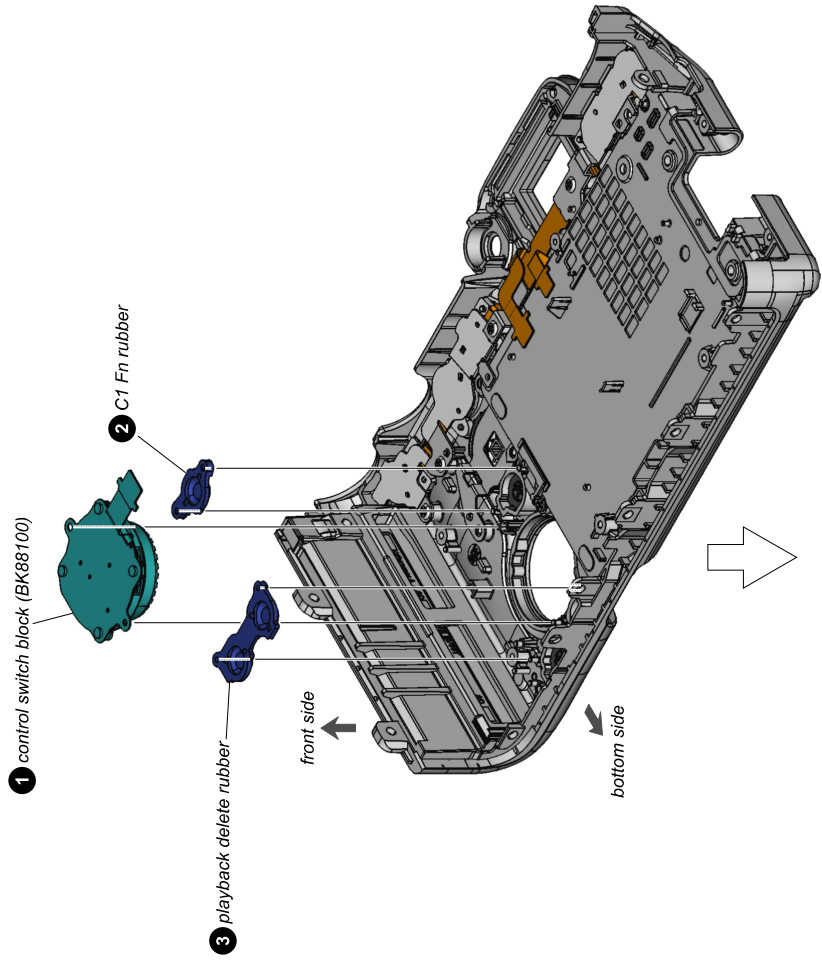
- 8 SV WP cable grommet

- 9 Draw the fine coaxial cable out of the hole on the hinge Assy.

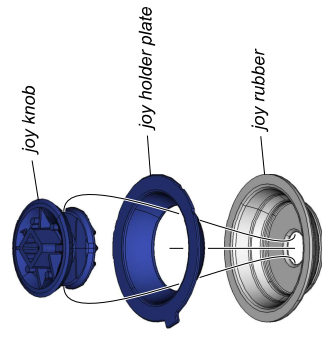
Note: Take care not to damage the fine coaxial cable.

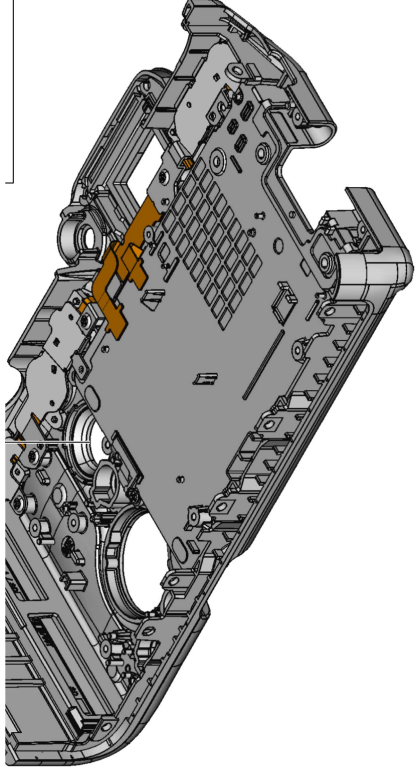
- 10 fine coaxial cable

- 11 hinge Assy

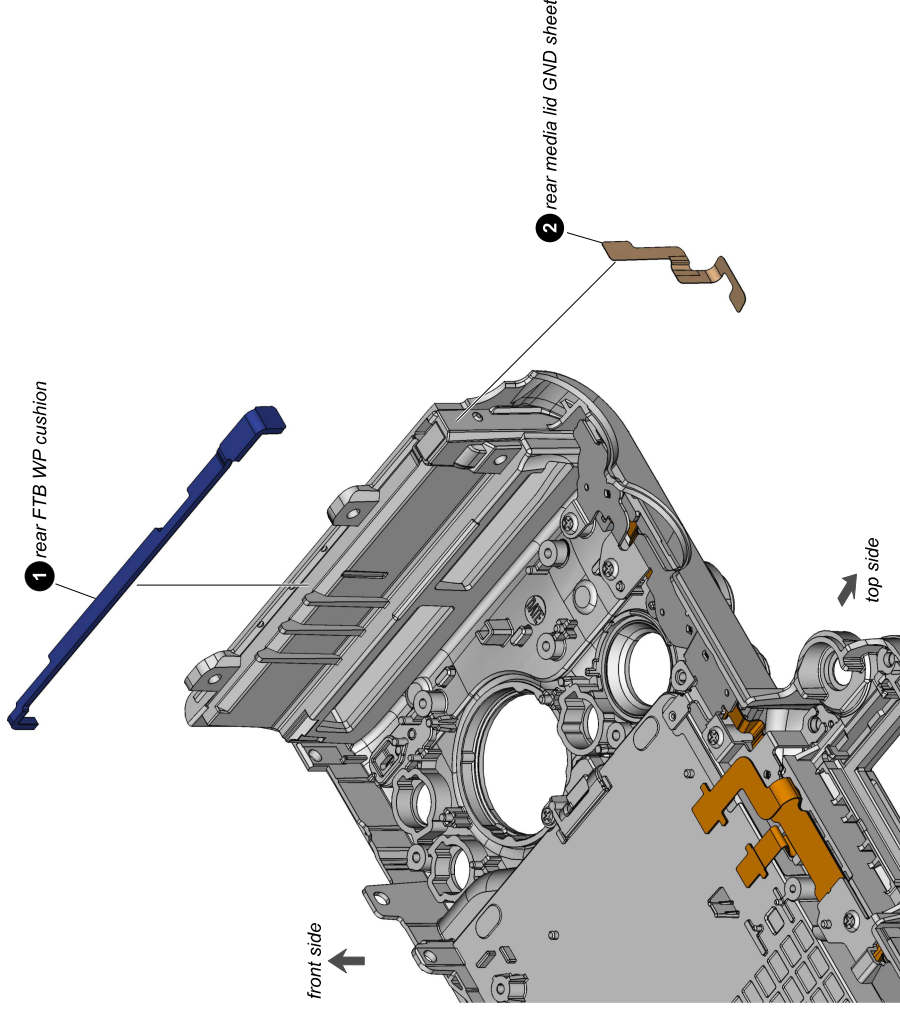


• The joy knob block can be disassembled as shown in the figure below.

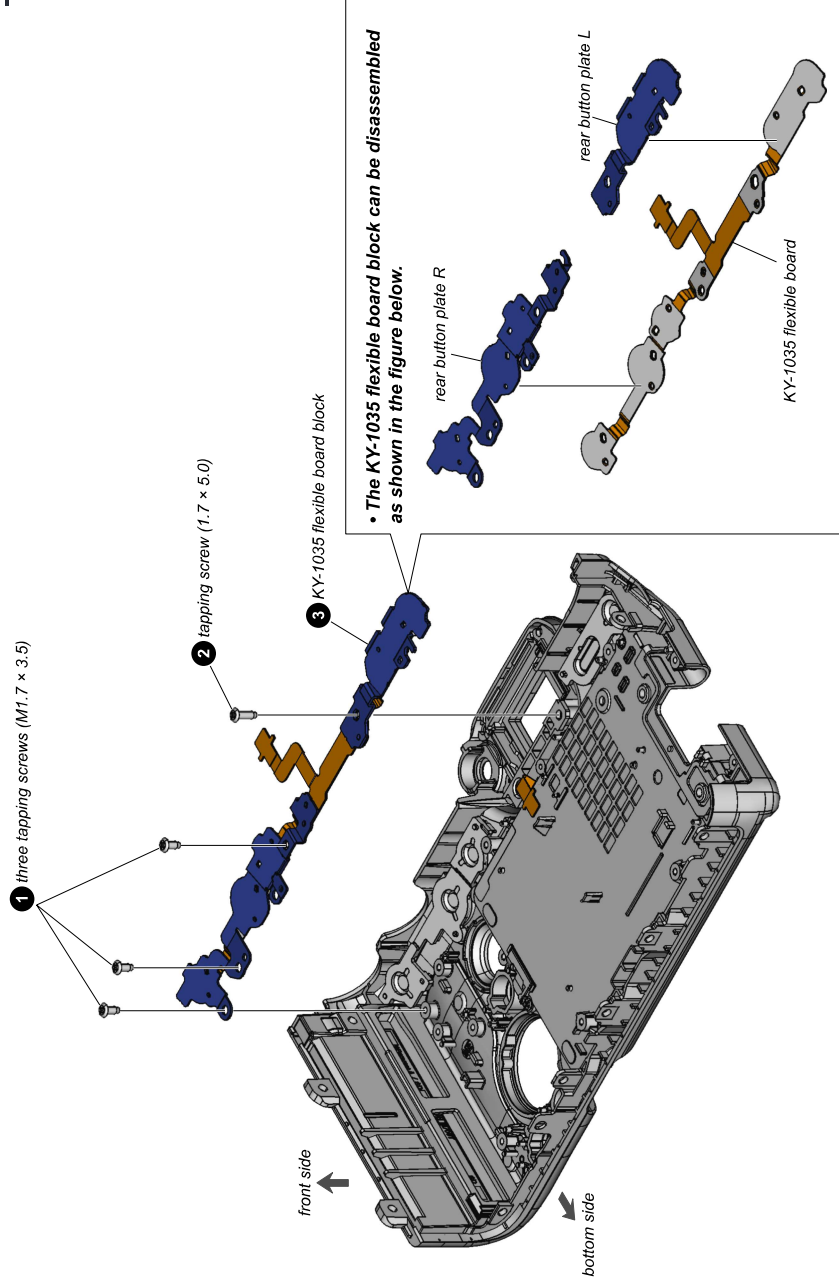




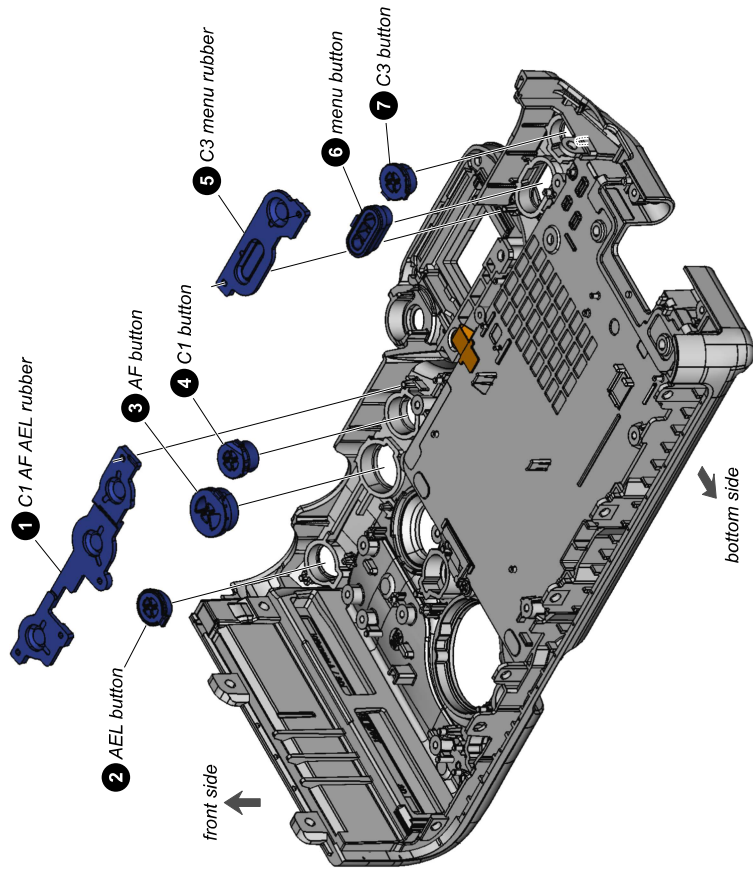
16. REAR FTB WP CUSHION, REAR MEDIA LID GND SHEET

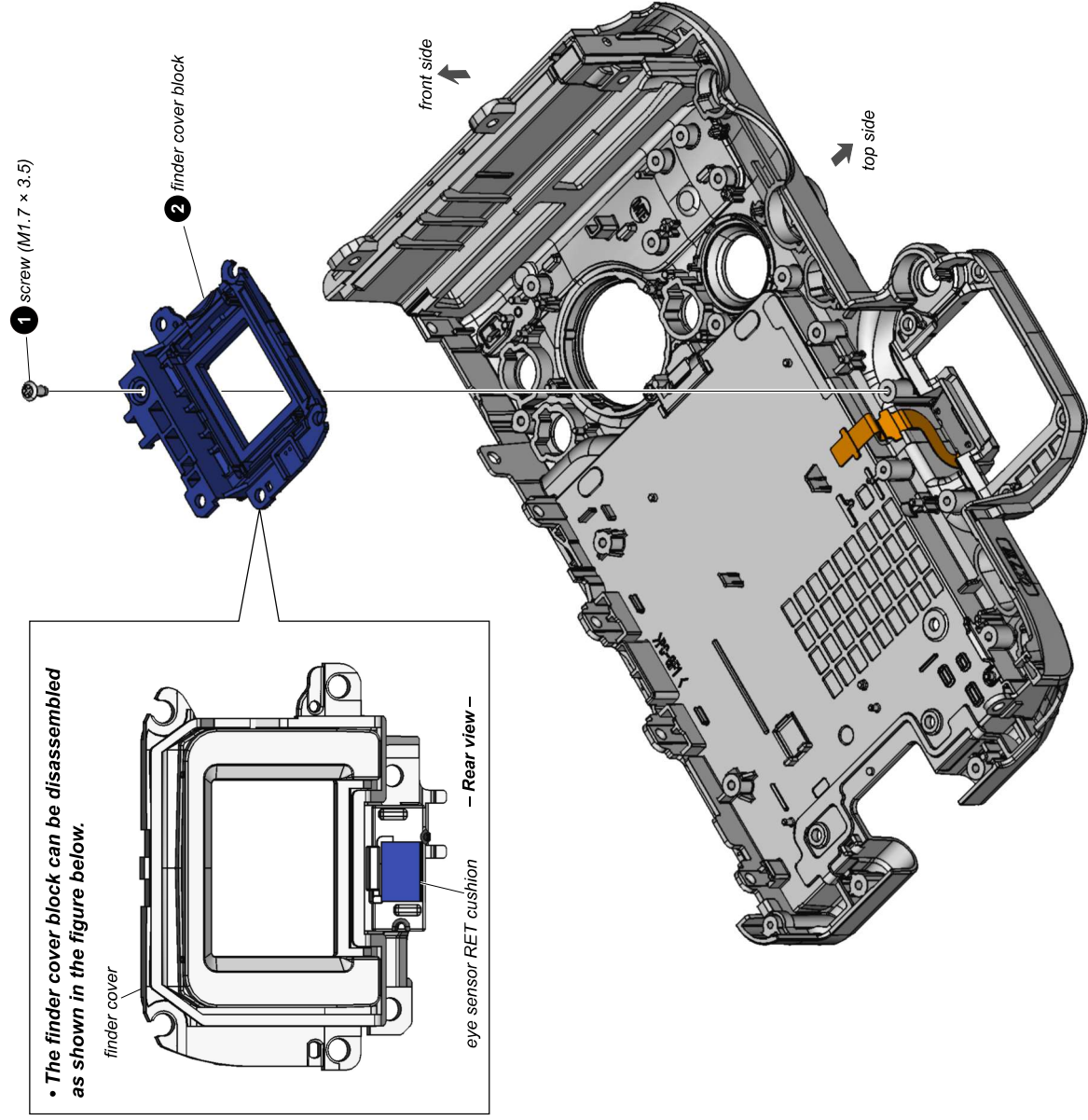


17. KY-1035 FLEXIBLE BOARD BLOCK

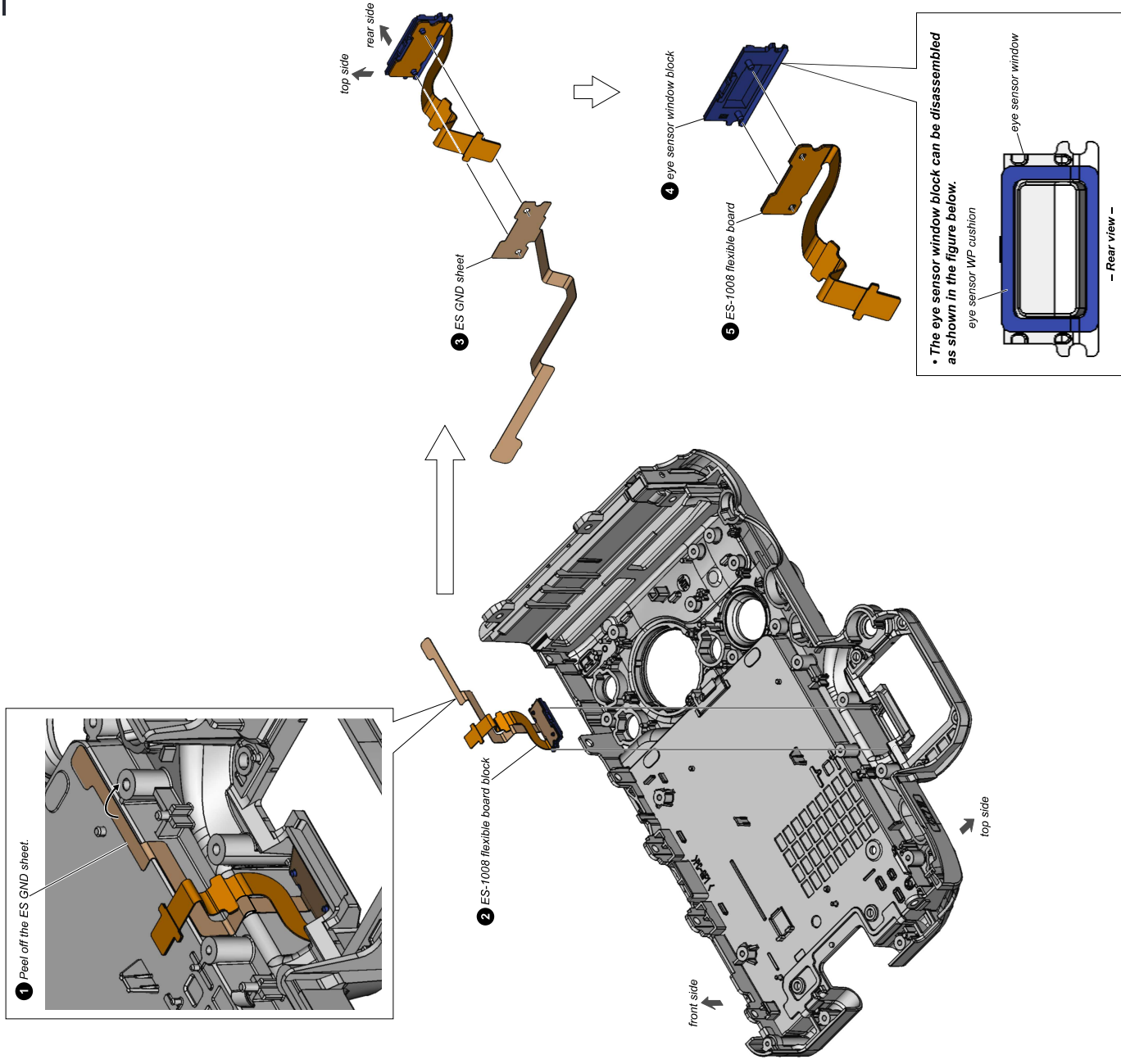


18. AEL/AF/C1/C3/MENU BUTTON



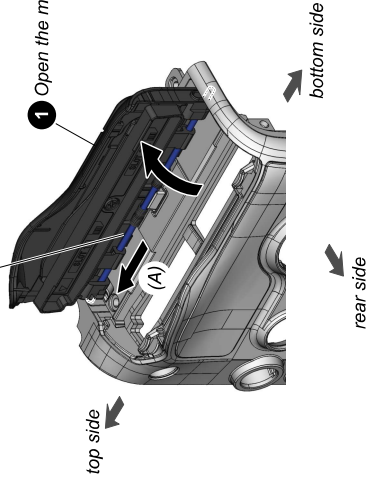


20. ES-1008 FLEXIBLE BOARD



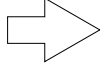
21. MEDIA LID BLOCK

2 Move the media lid shaft in the direction of the arrow (A).



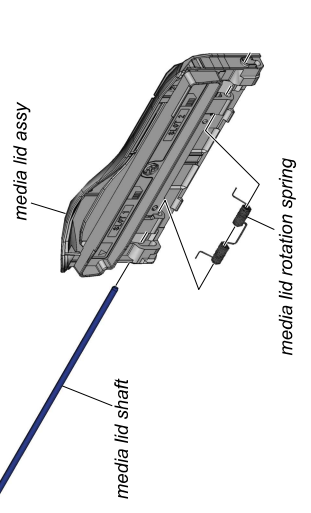
1 Open the media lid block.

rear side



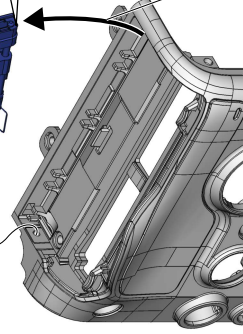
4 Draw the media lid shaft out of the hole.

5 media lid block

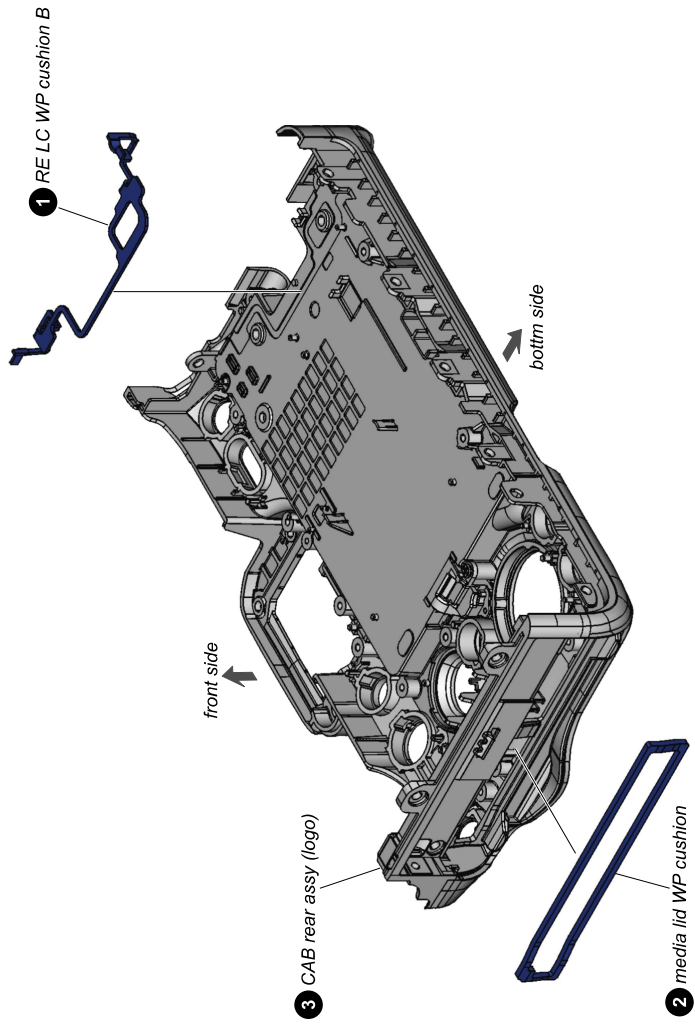


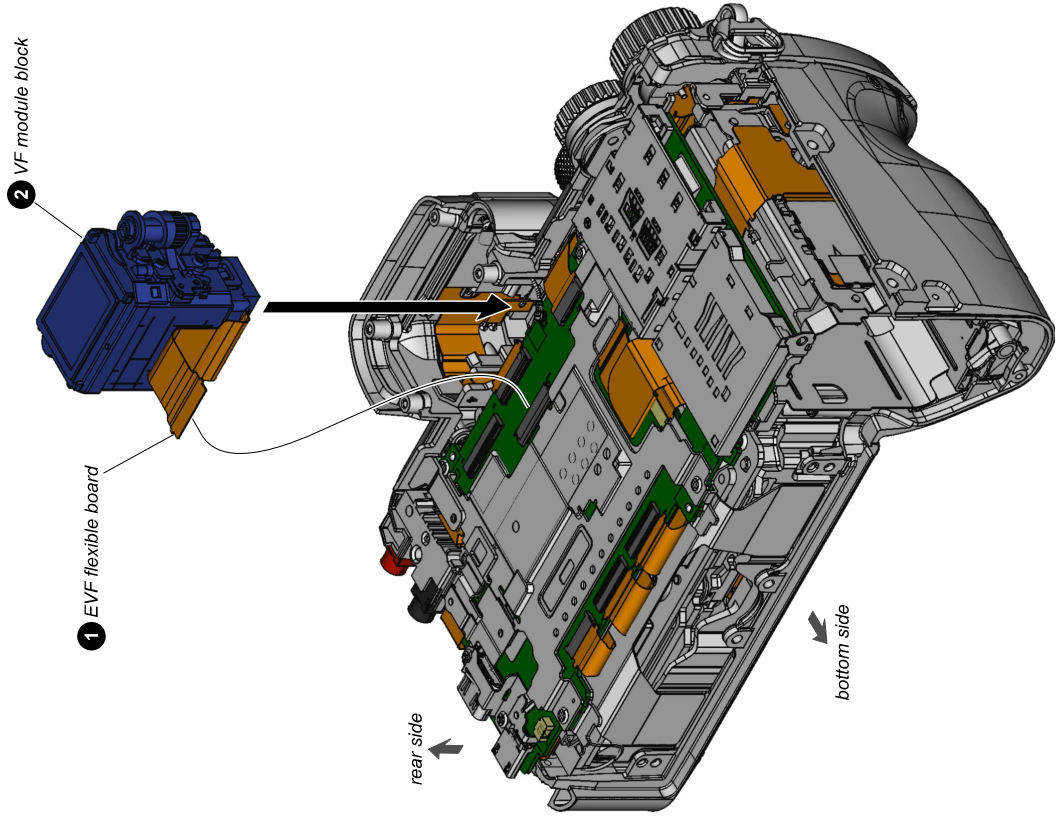
• The media lid block can be disassembled as shown in the figure below.

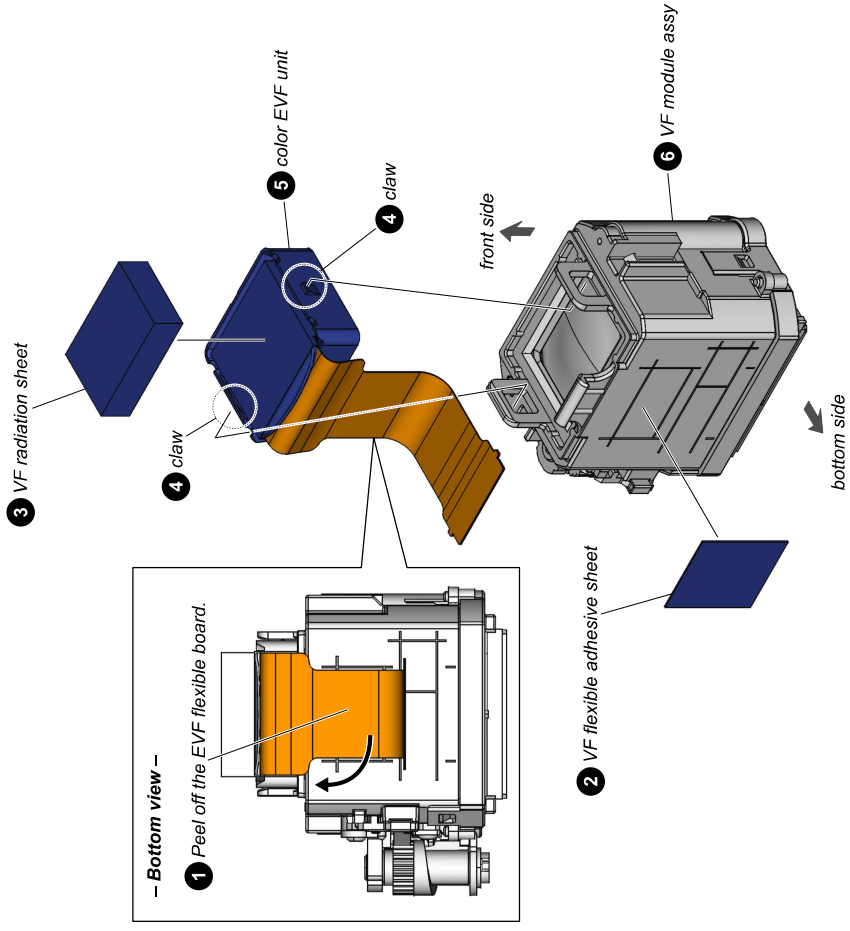
3 Lift up the media lid block.



22. CAB REAR ASSY (LOGO)

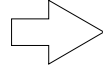
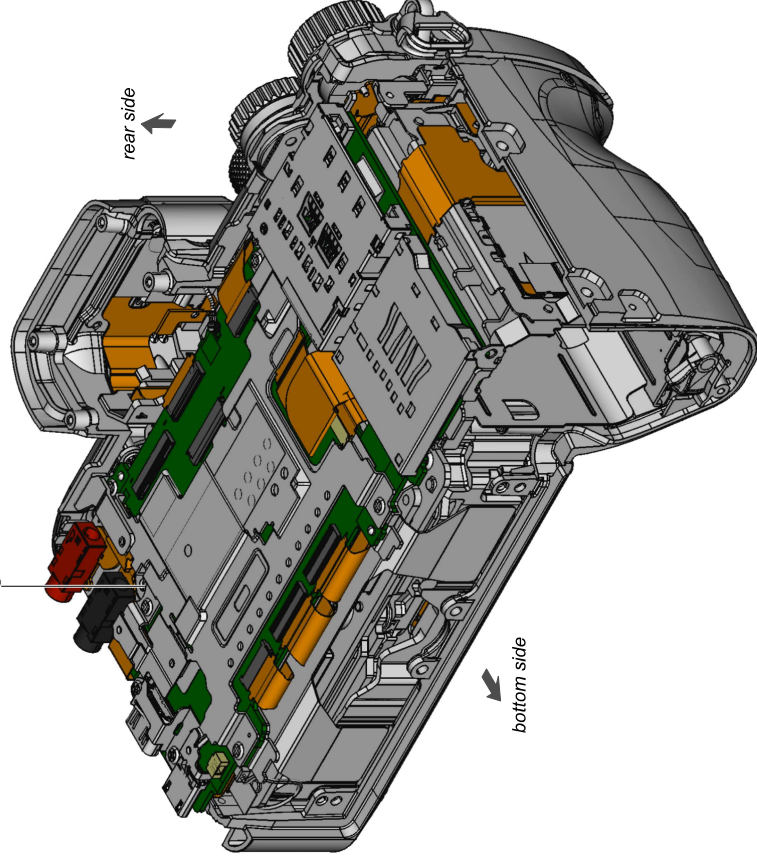




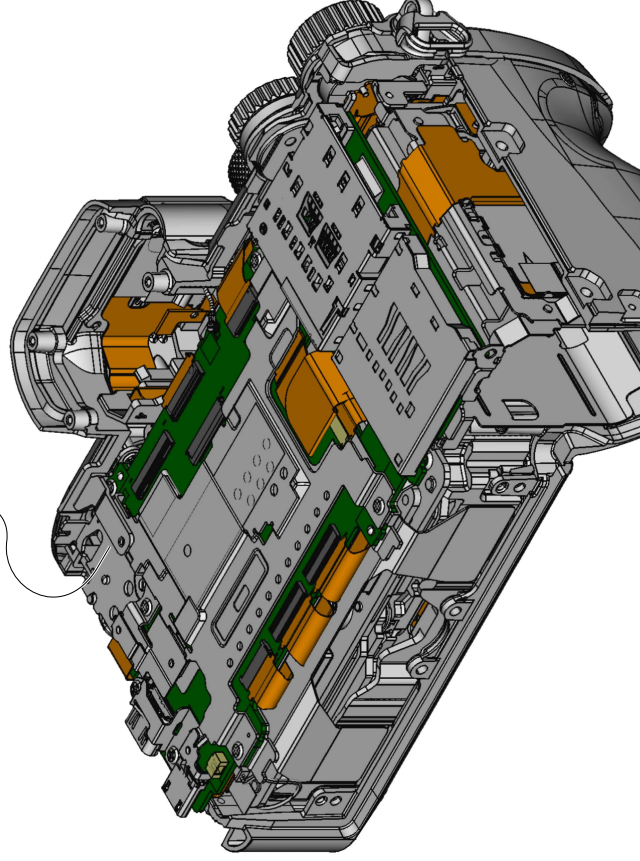


1 two screws (M1.7 x 3.0)

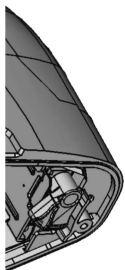
2 JK holder



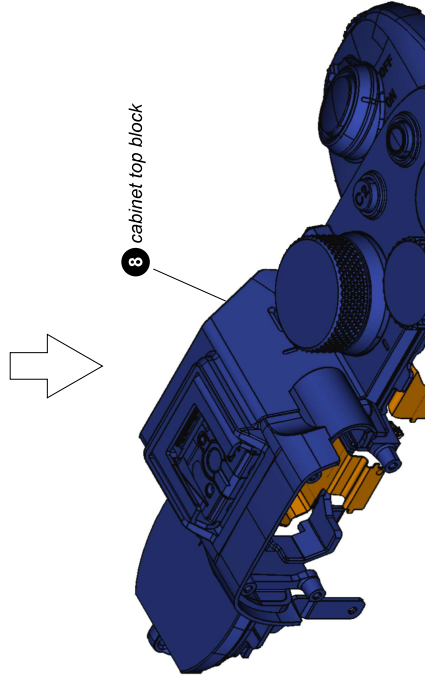
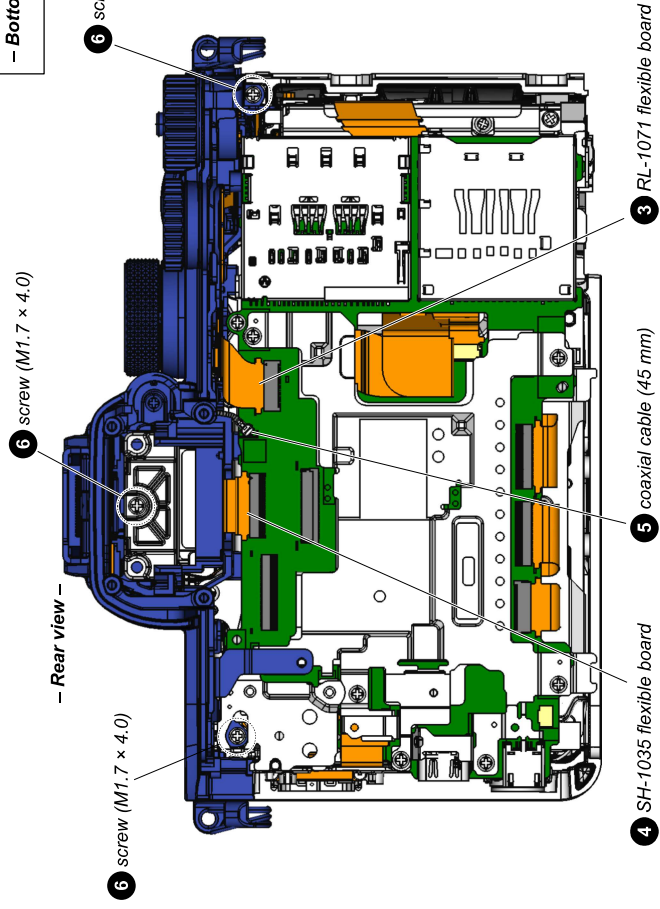
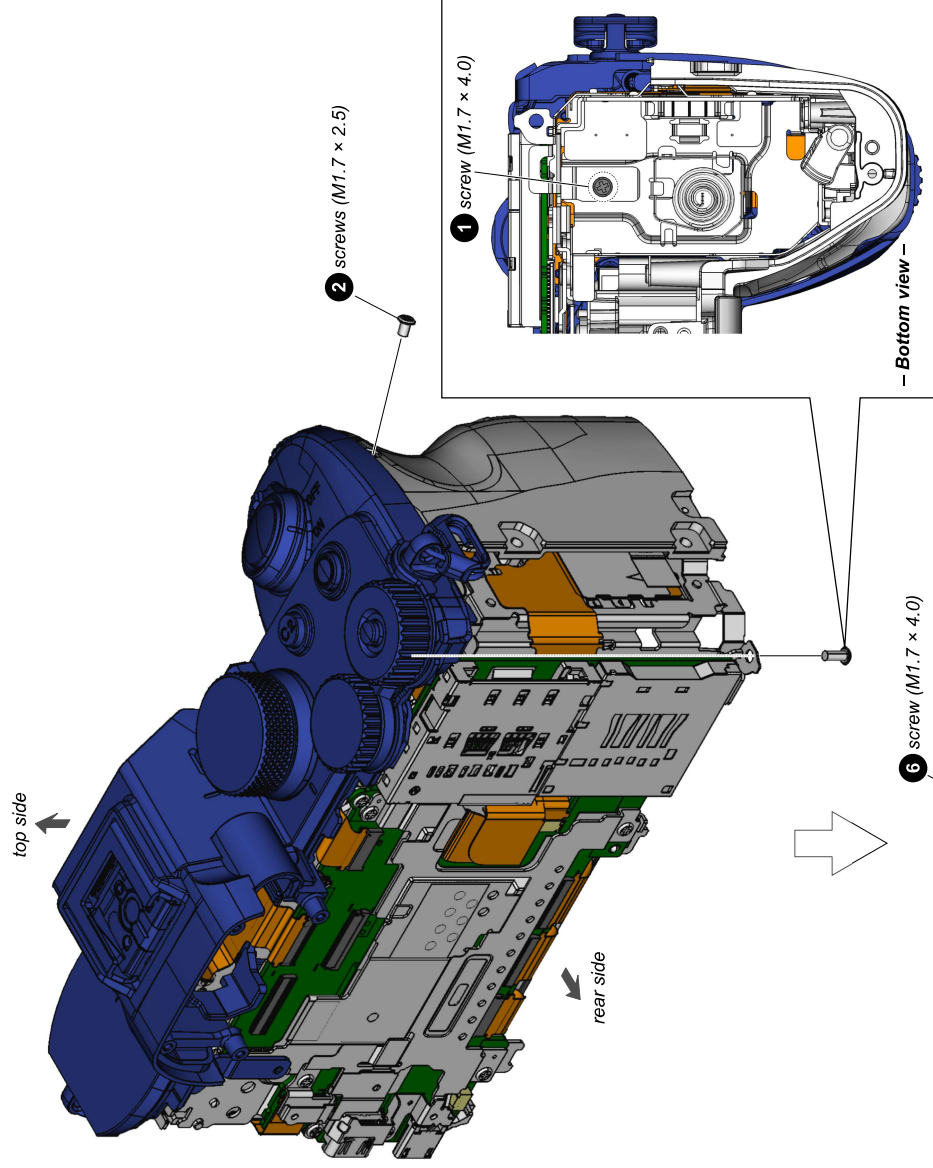
3 JK-1028 flexible board

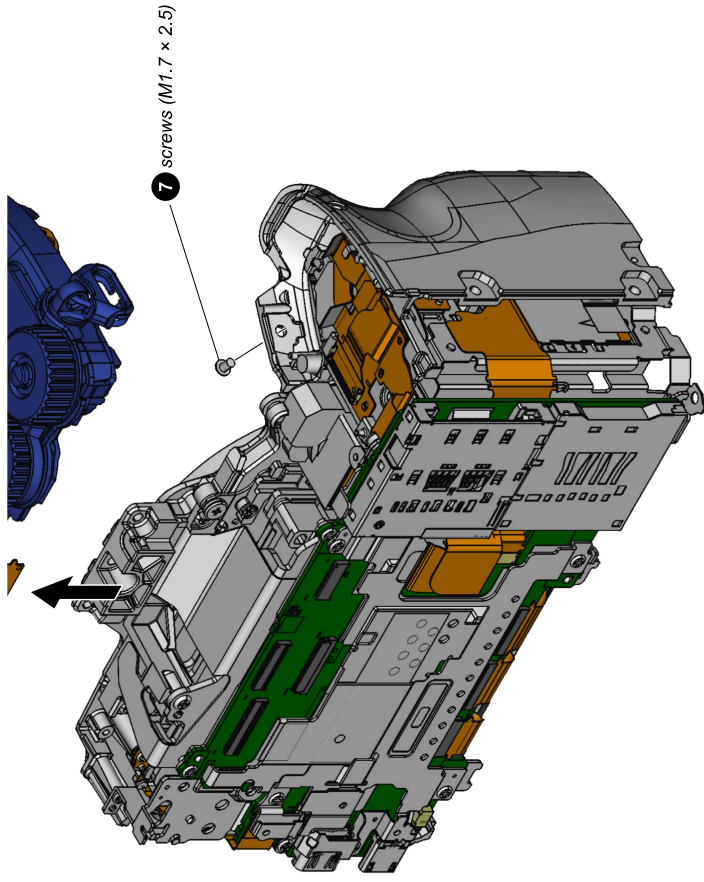


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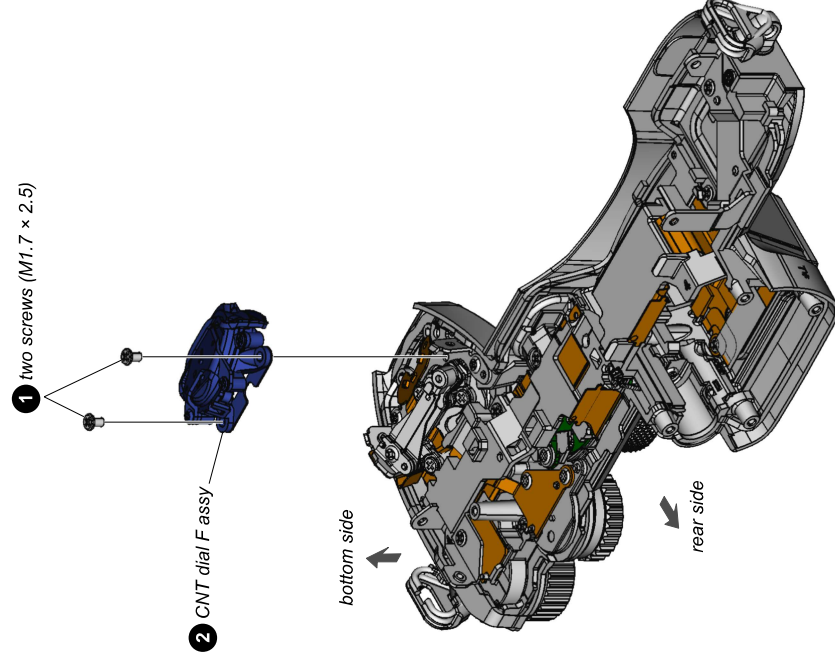


top side

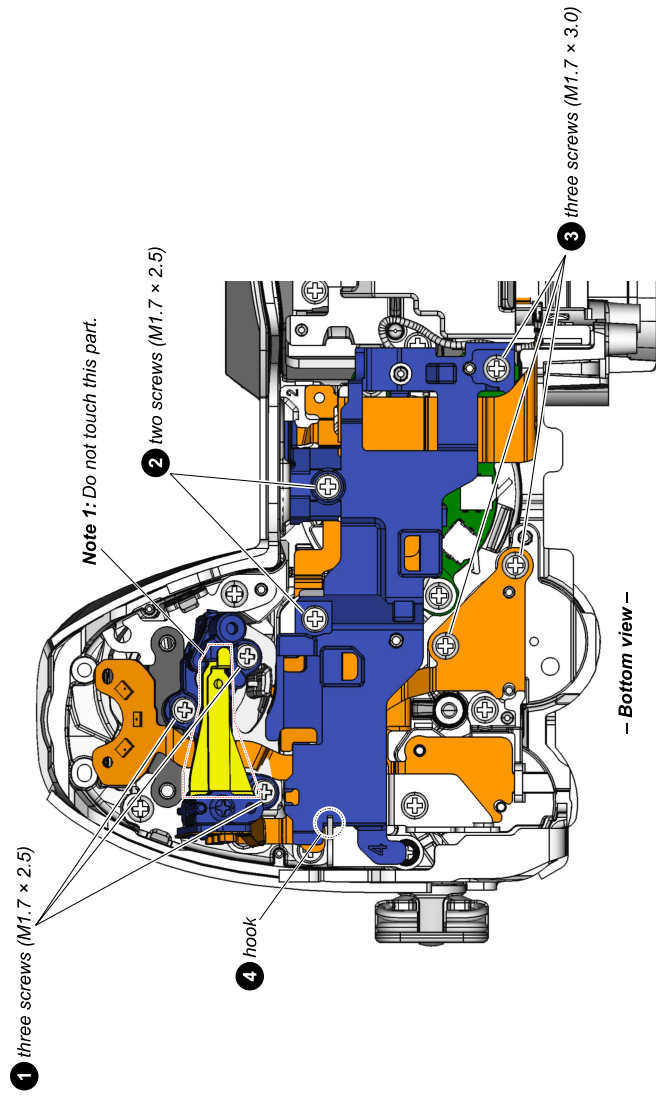




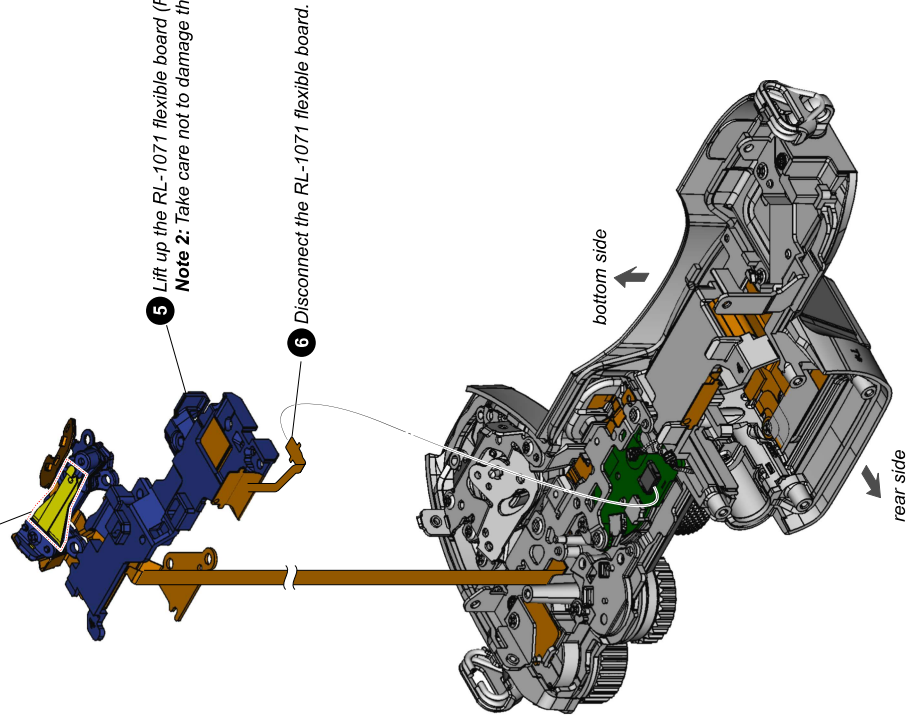
27. CNT DIAL F ASSY



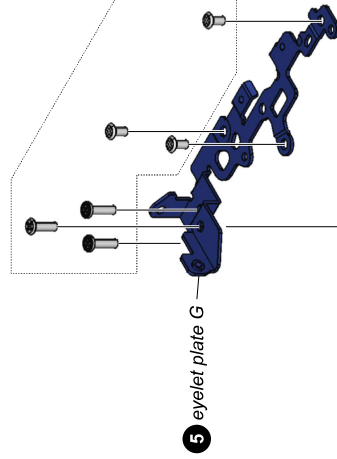
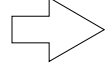
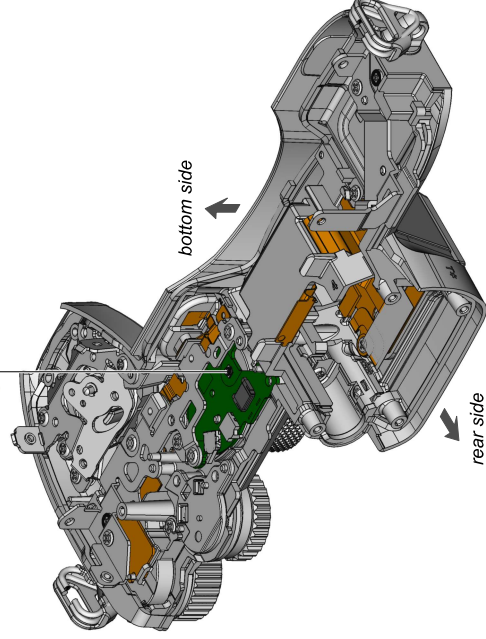
28. RL-1071 FLEXIBLE BOARD (RL FPC BASE PART)



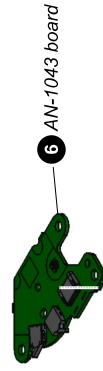
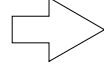
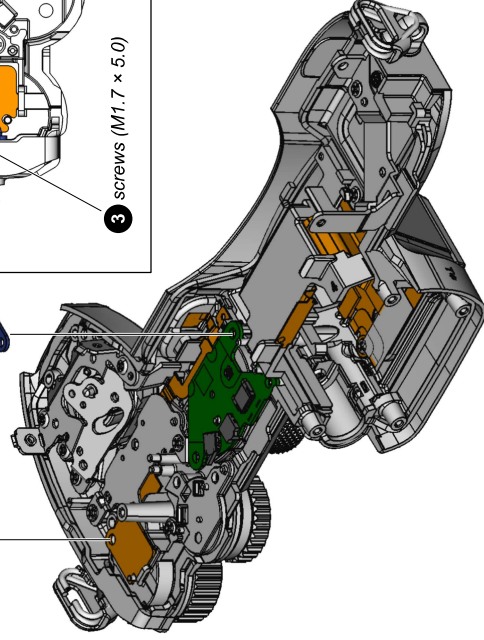
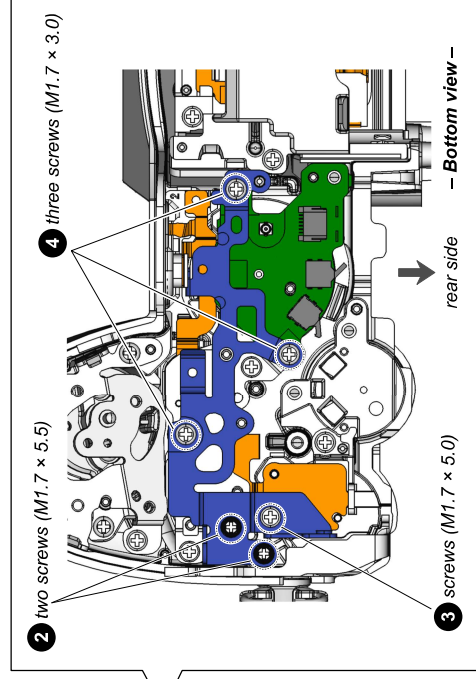
Note 1: Do not touch this part.



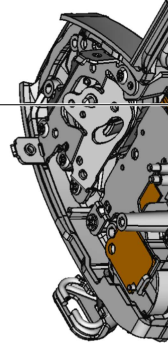
1 coaxial cable (45 mm)

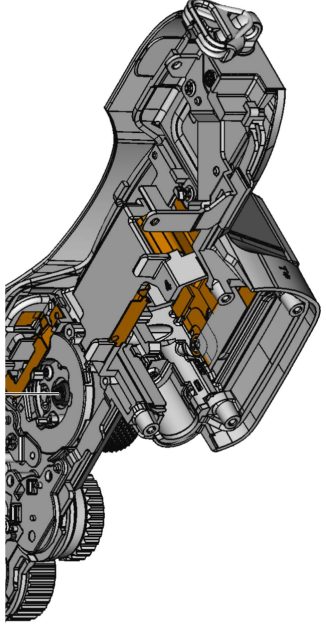


5 eyelet plate G

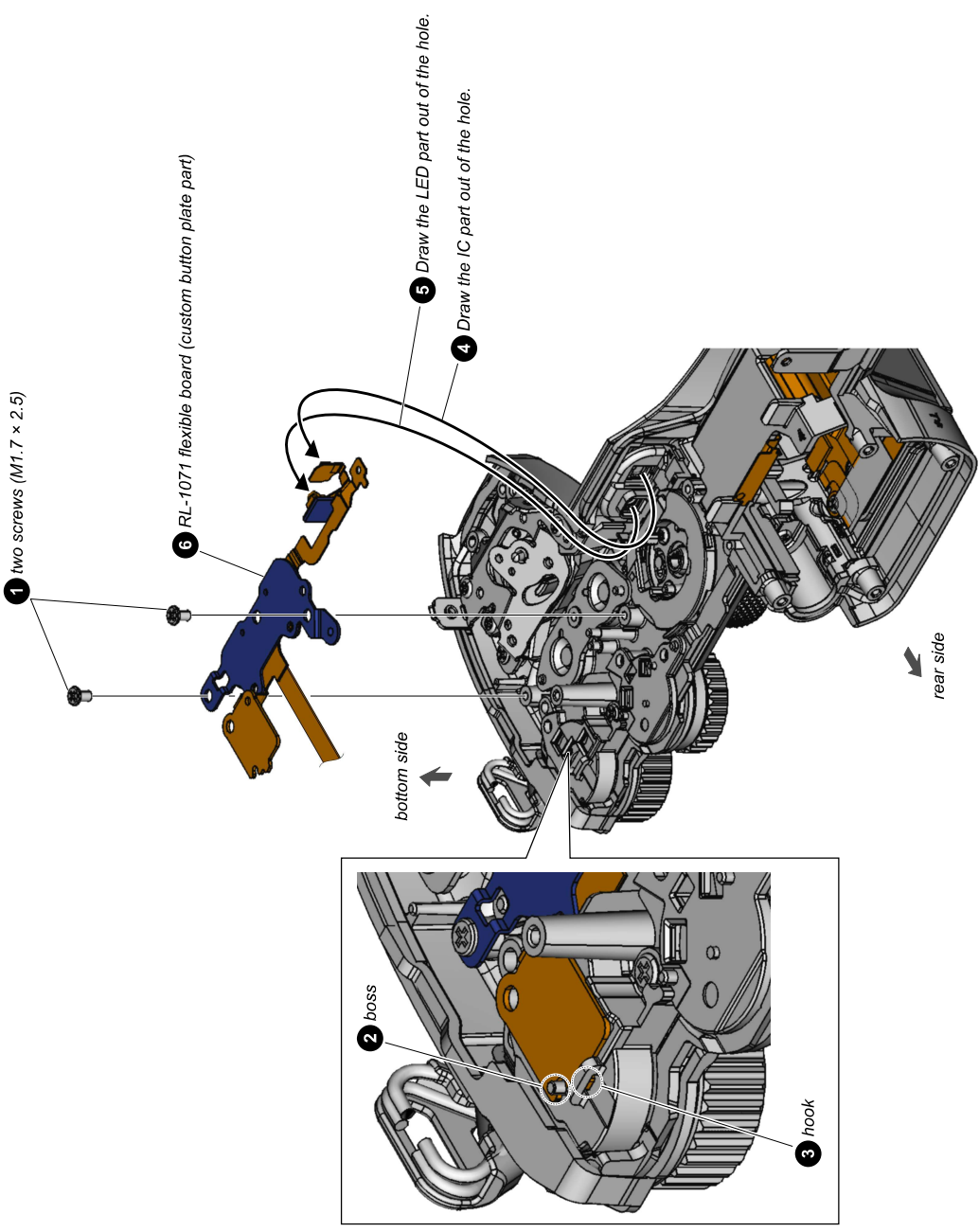


6 AN-1043 board

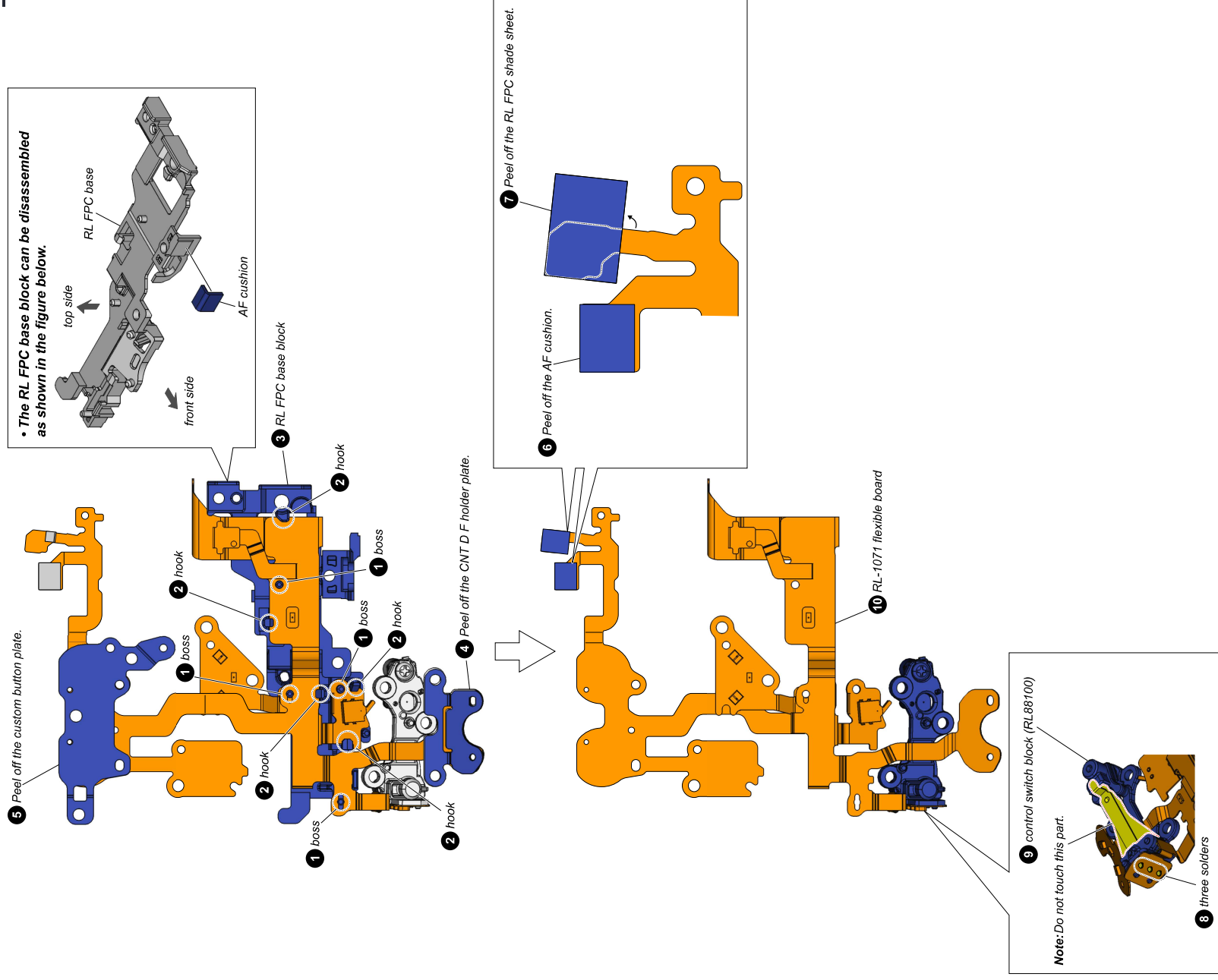


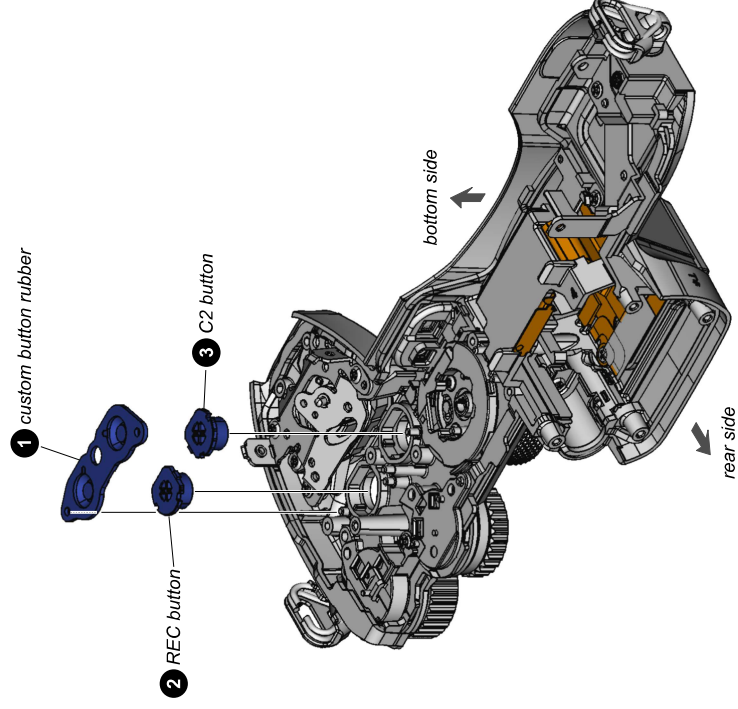


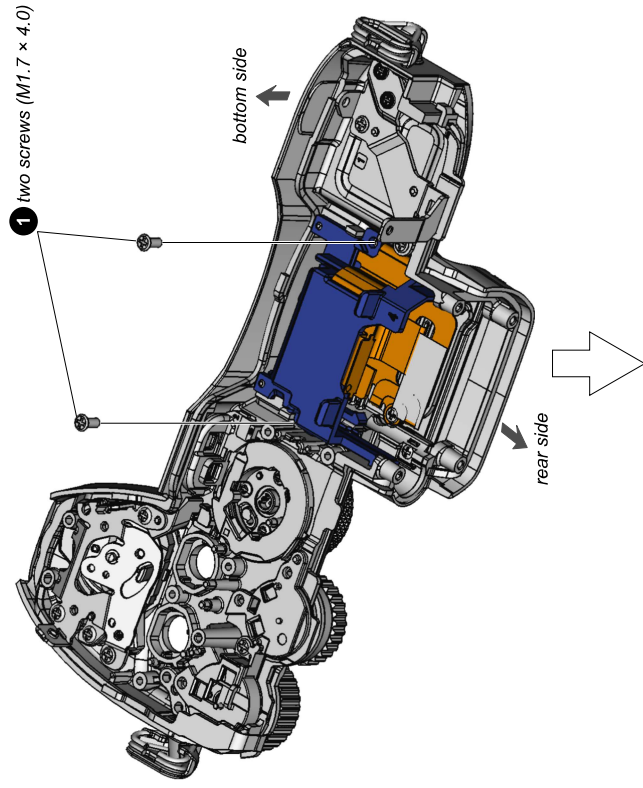
30. RL-1071 FLEXIBLE BOARD (CUSTOM BUTTON PLATE PART)



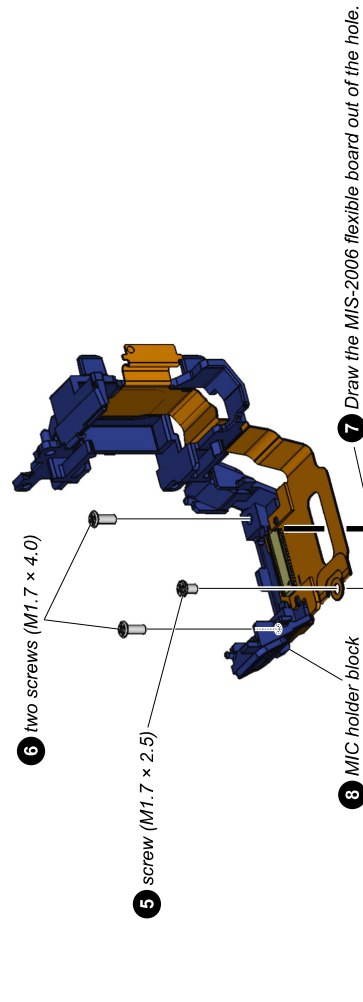
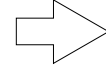
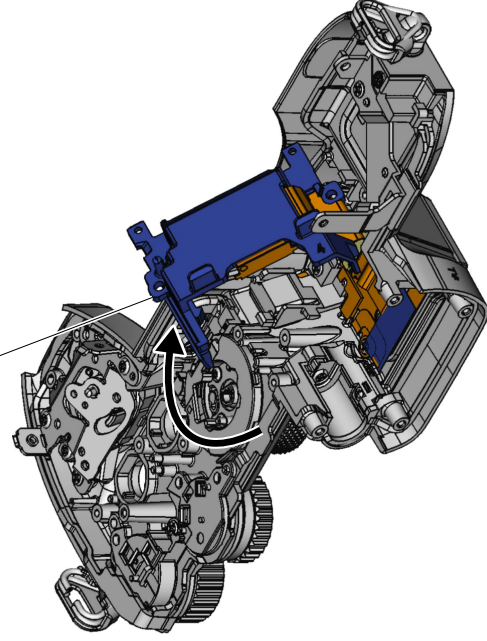
31. RL-1071 FLEXIBLE BOARD





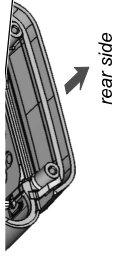


2 Lift up the EVF protector block in the direction of the arrow.

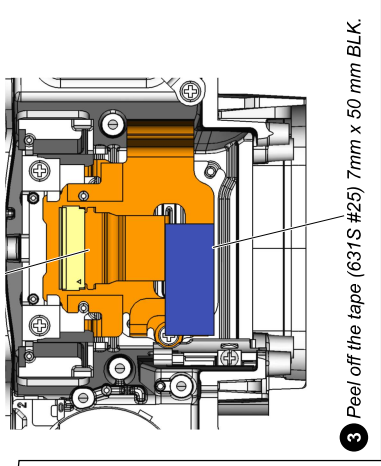


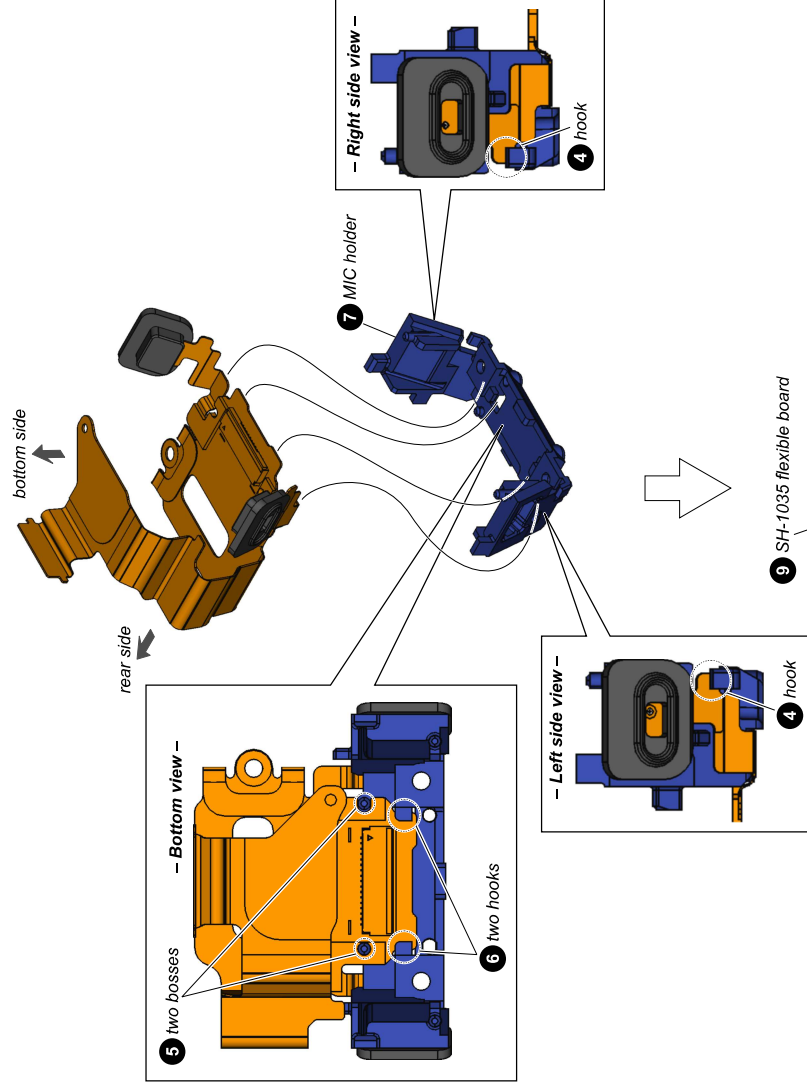
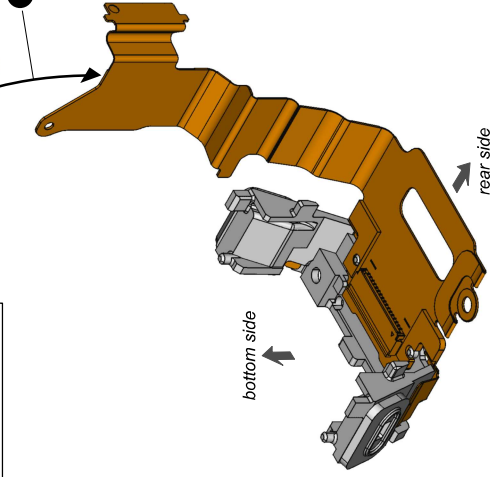
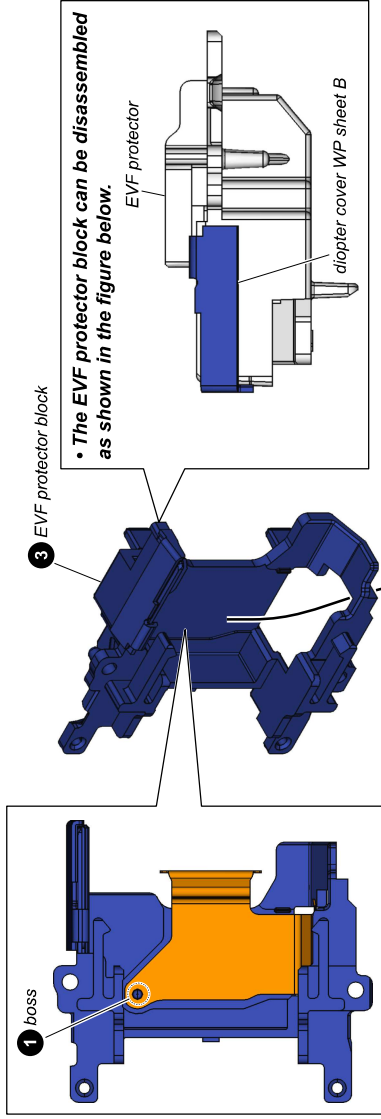
4 Disconnect the MIS-2006 flexible board.

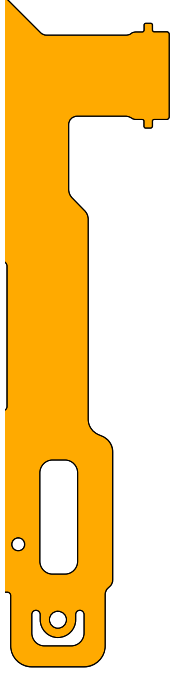




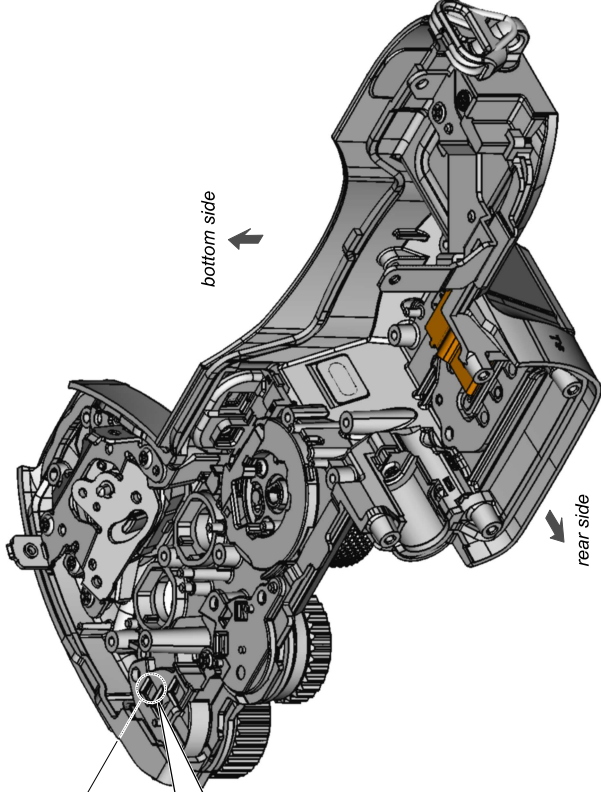
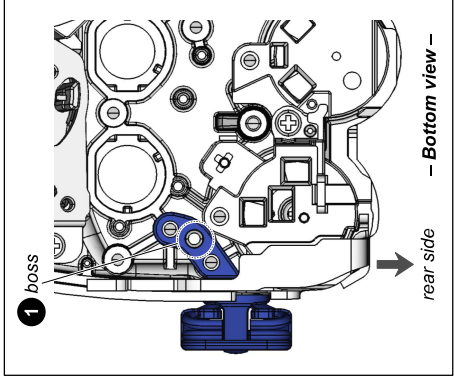
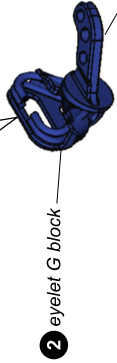
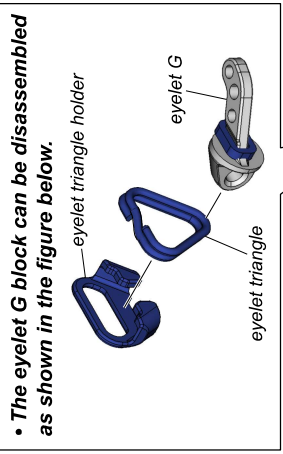
rear side



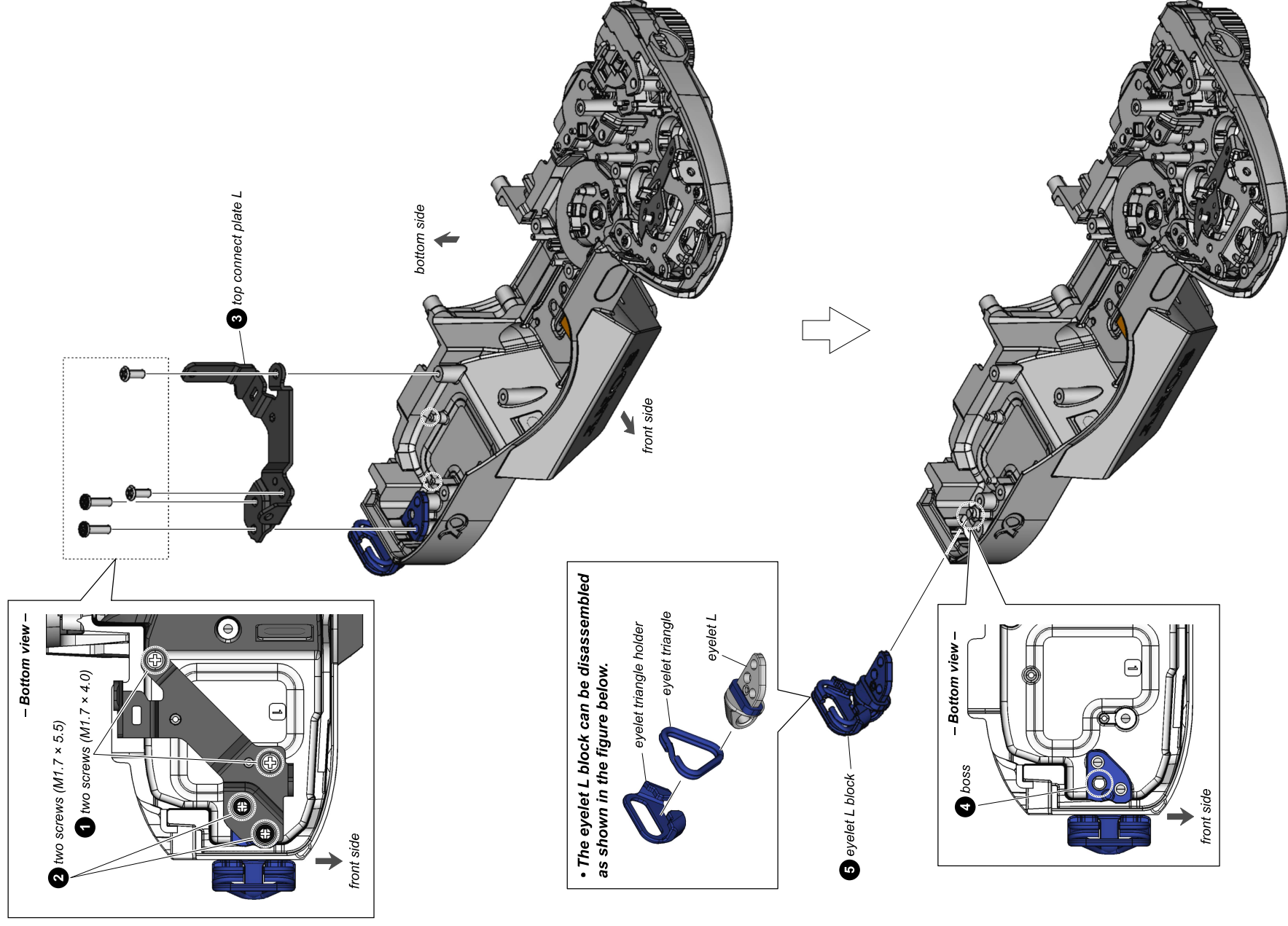




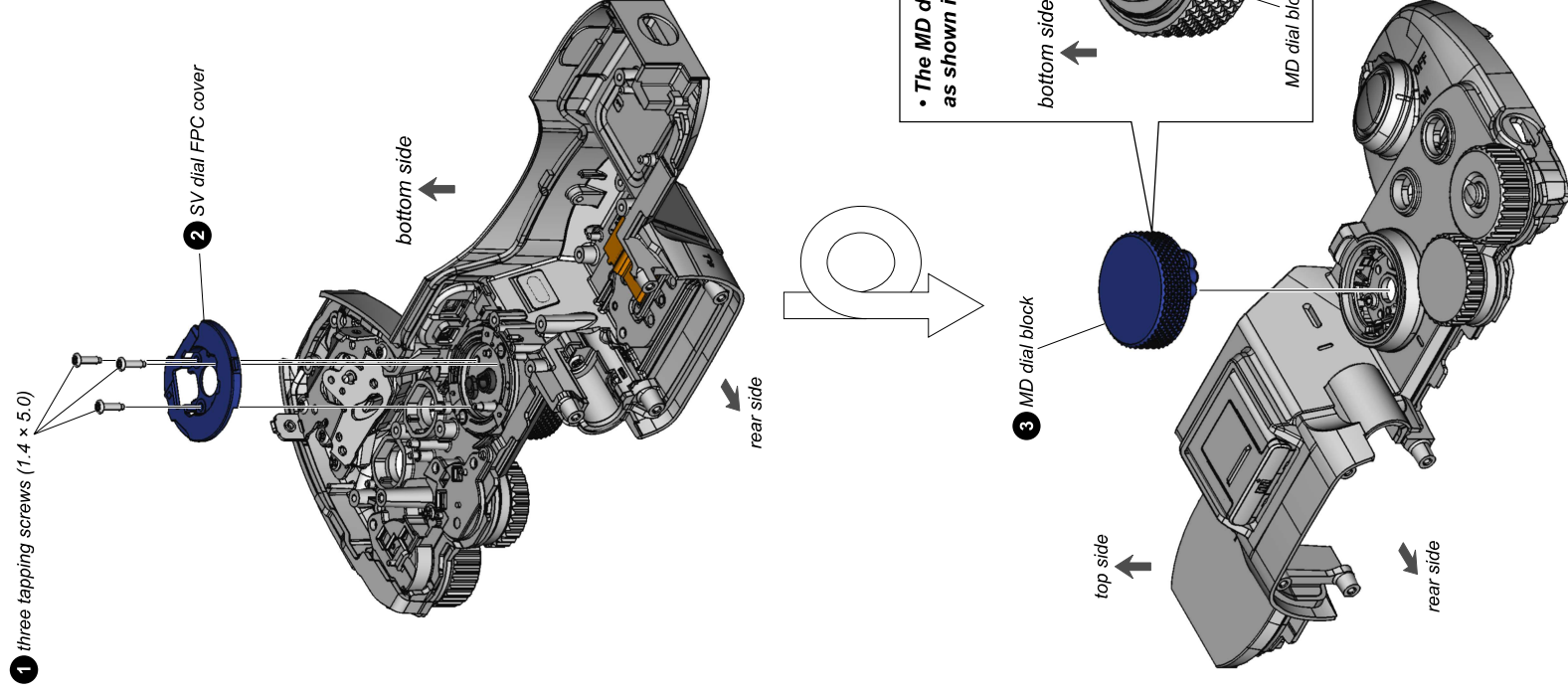
35. EYELET G BLOCK

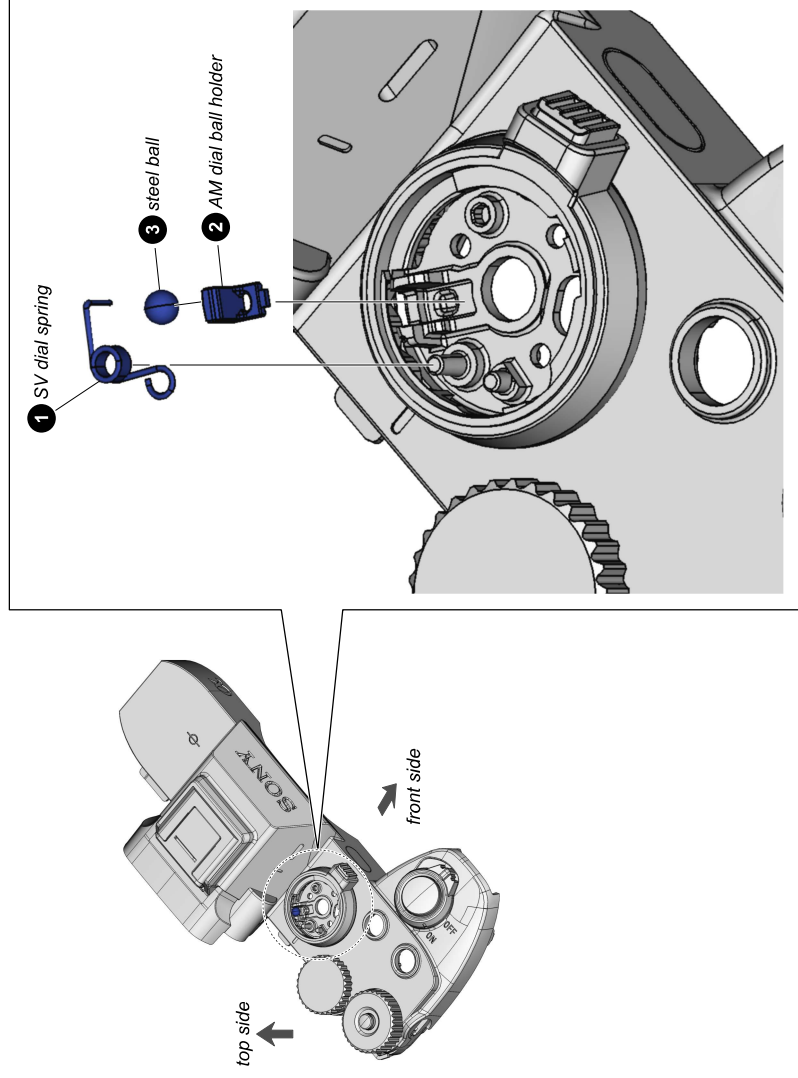


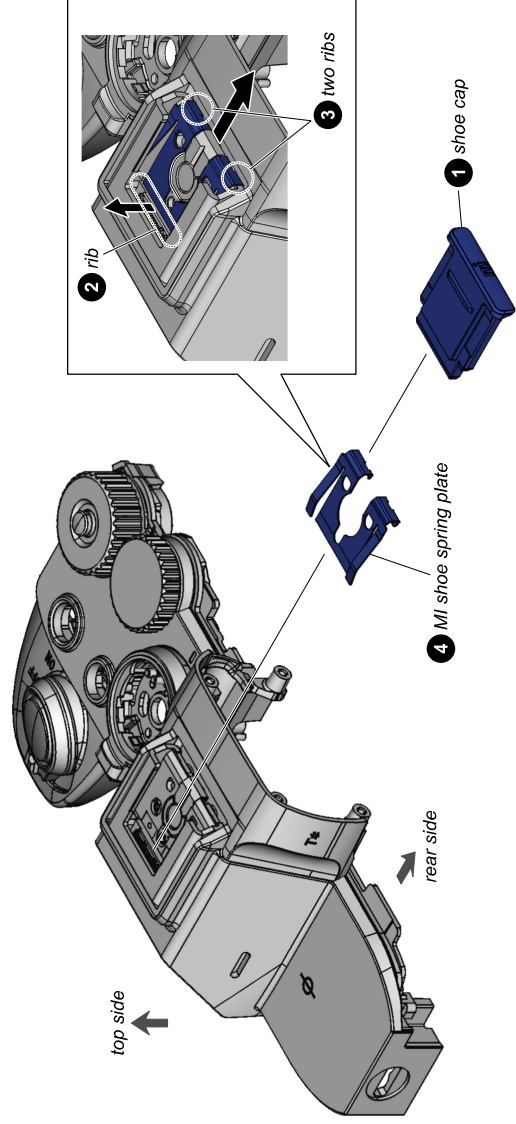
36. EYELET L BLOCK



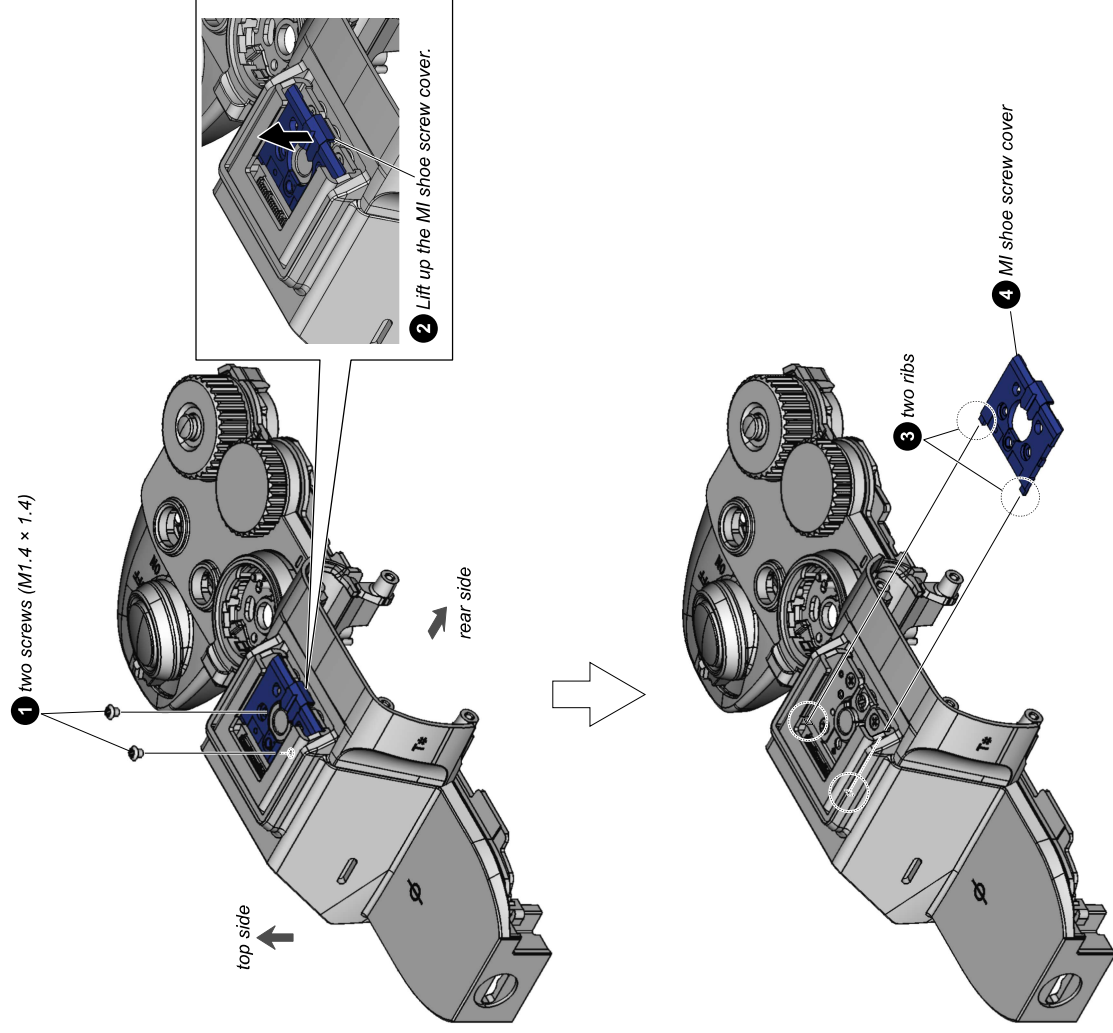
37. MD DIAL BLOCK



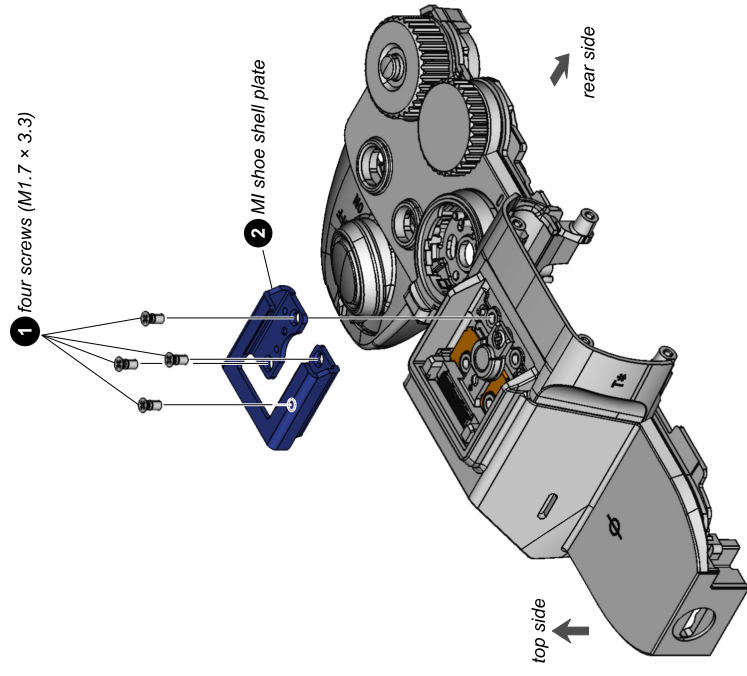




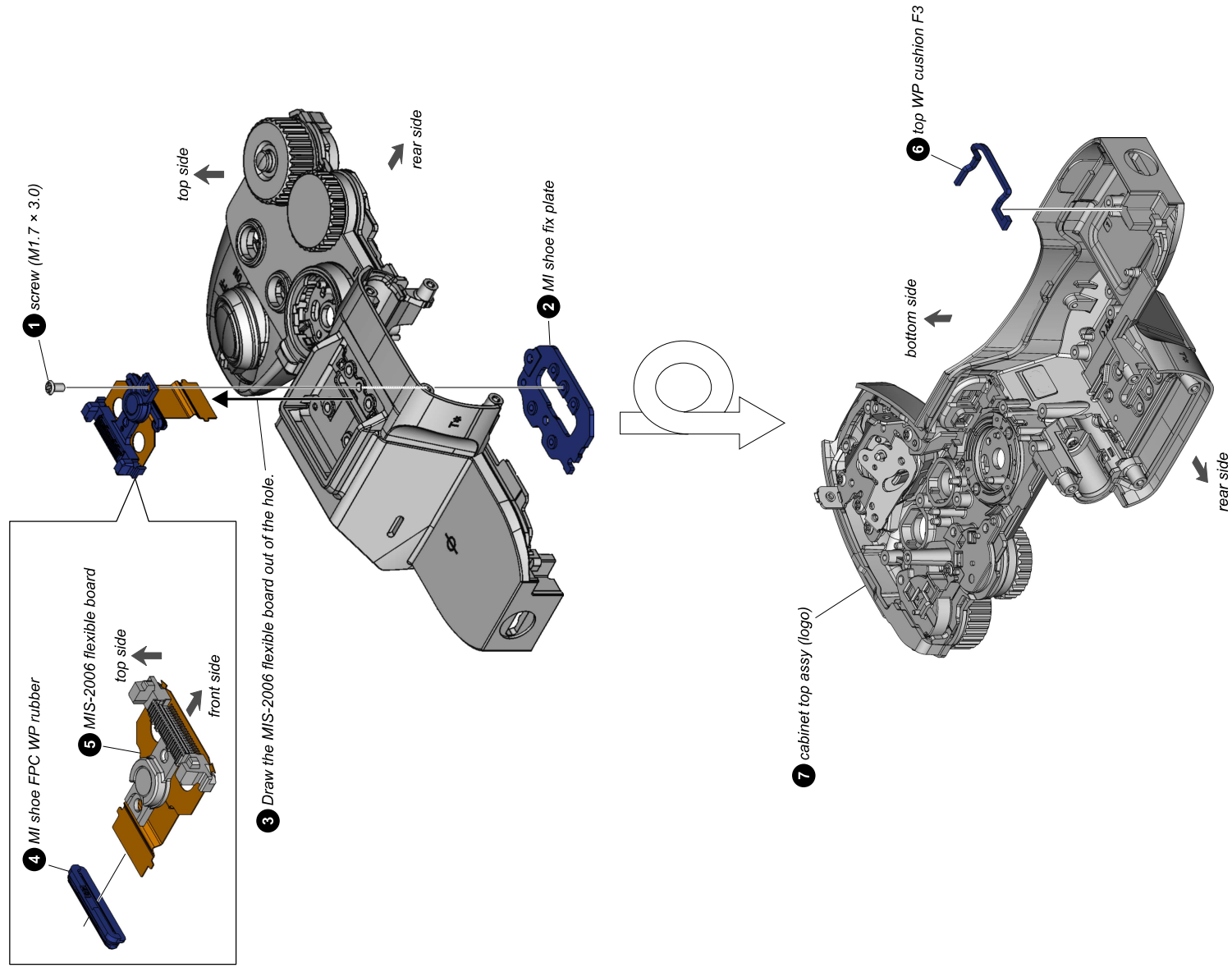
40. MI SHOE SCREW COVER



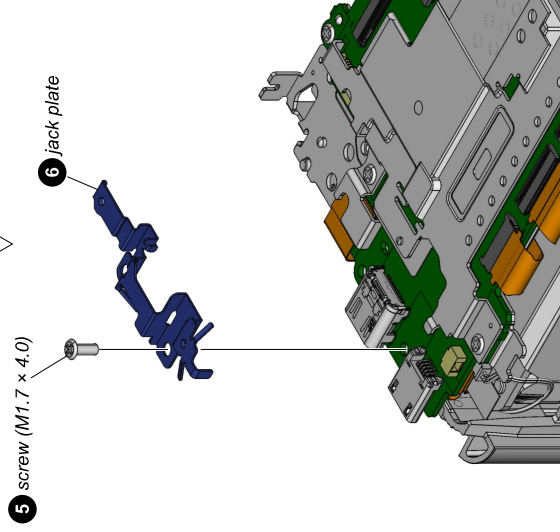
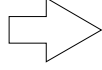
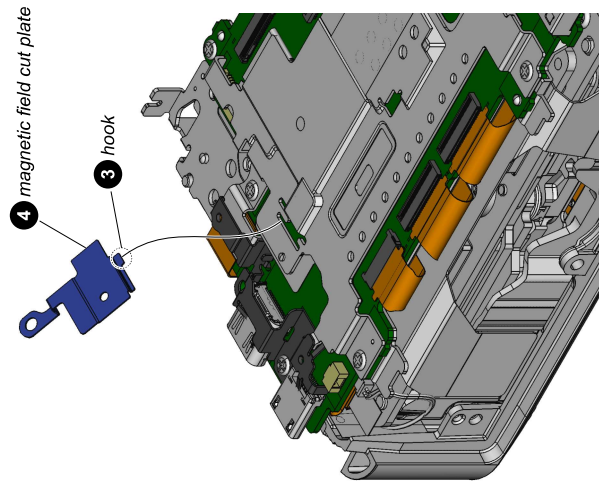
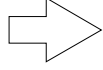
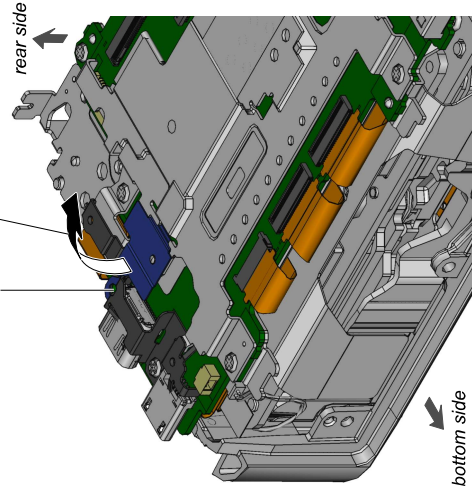
41. MI SHOE SHELL PLATE

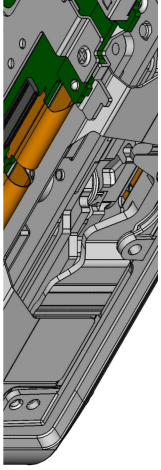


42. MIS-2006 FLEXIBLE BOARD, CABINET TOP ASSY (LOGO)



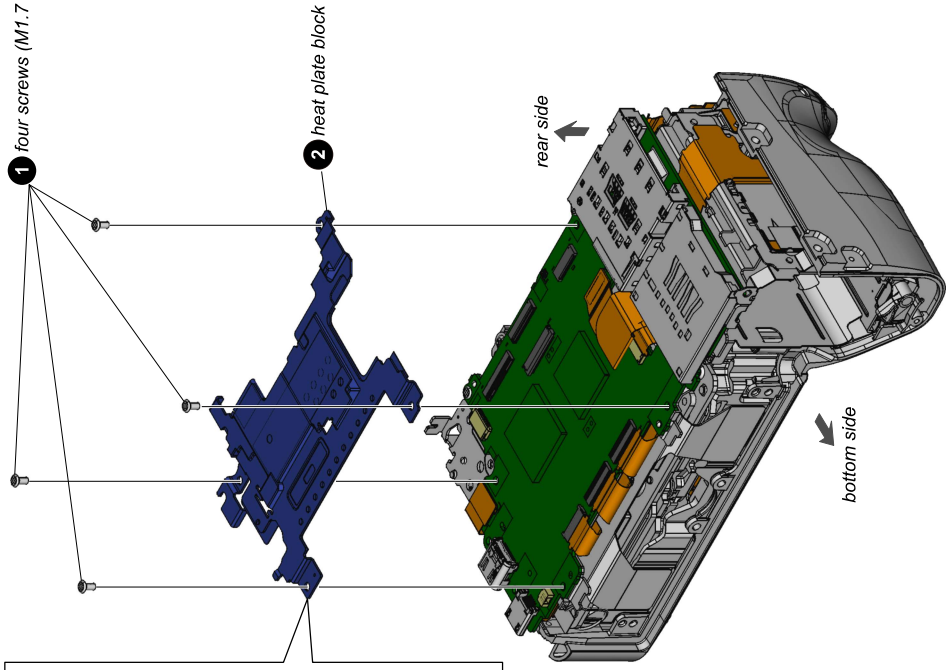
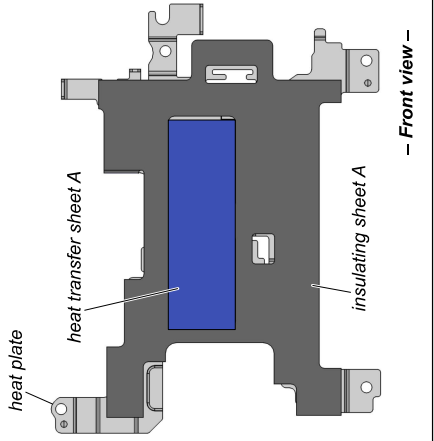
- 1** screw (M1.7 x 4.0)
- 2** Lift up the magnetic field cut plate in the direction of the arrow.

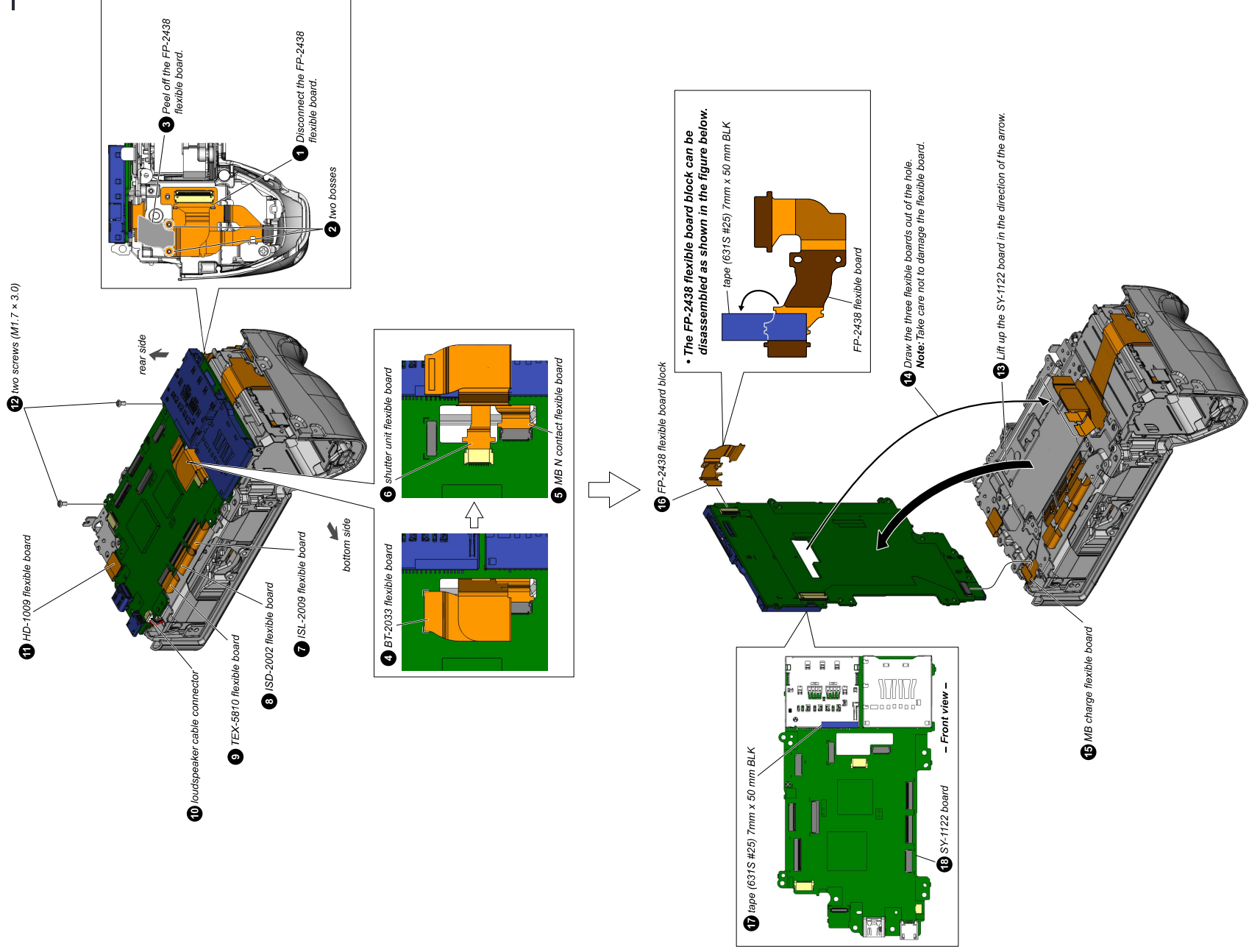




44. HEAT PLATE

- The heat plate block can be disassembled as shown in the figure below.





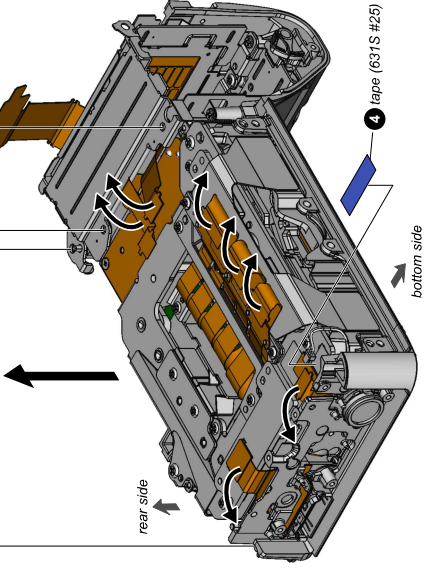
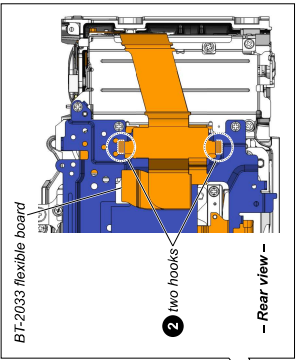
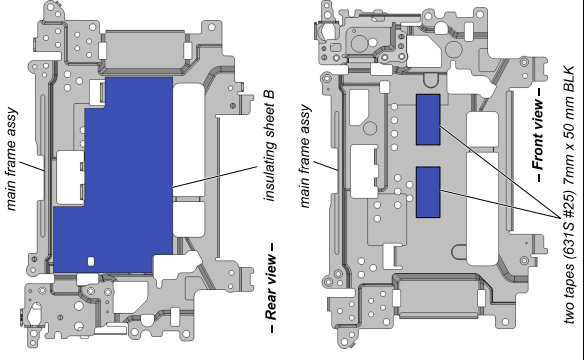
46. MAIN FRAME BLOCK

1 three screws (M1.7 x 3.0)

3 main frame block

1 screw (M1.7 x 3.0)

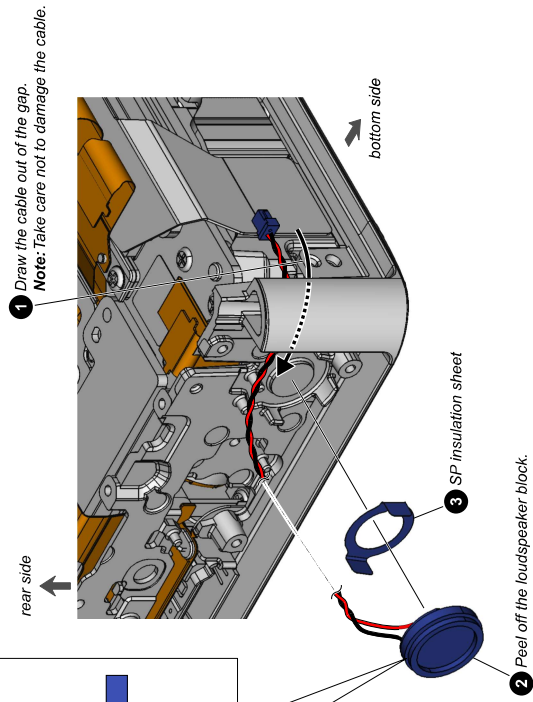
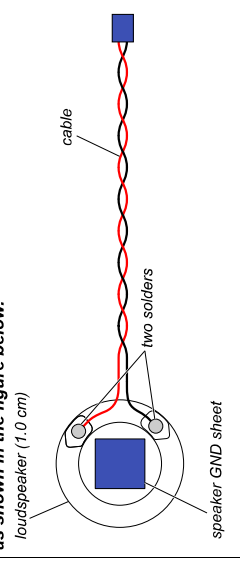
• The main frame block can be disassembled as shown in the figure below.

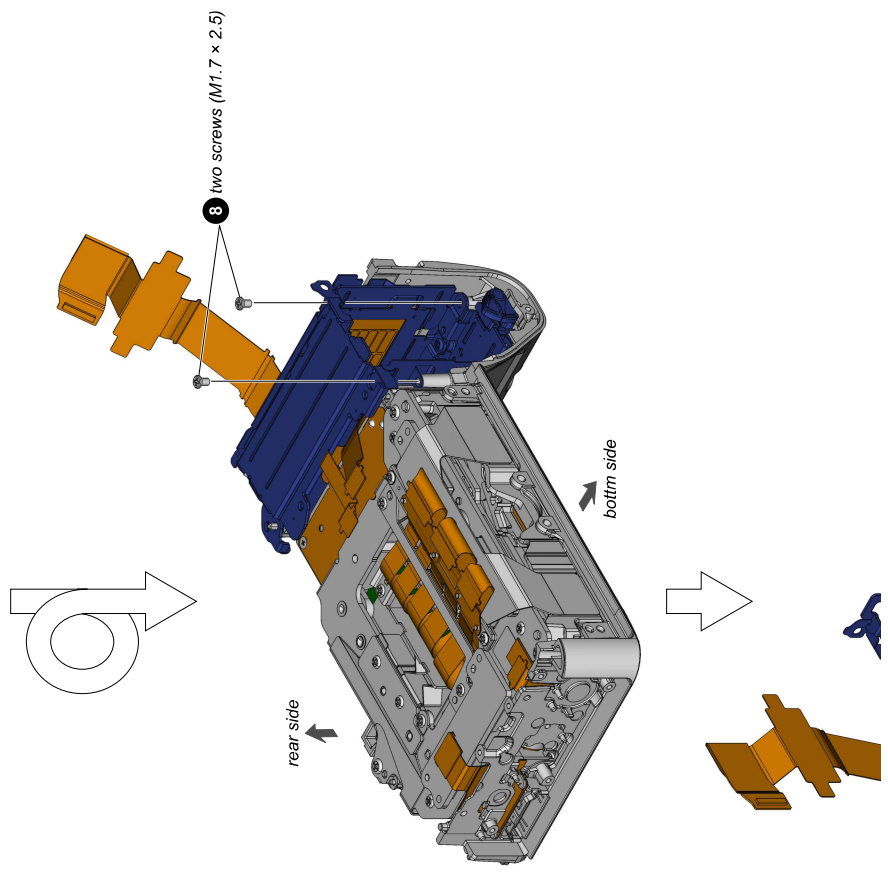
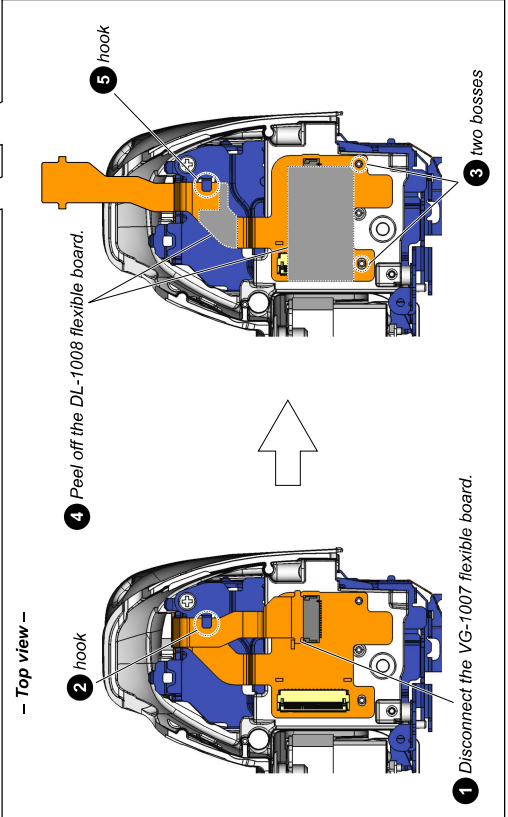
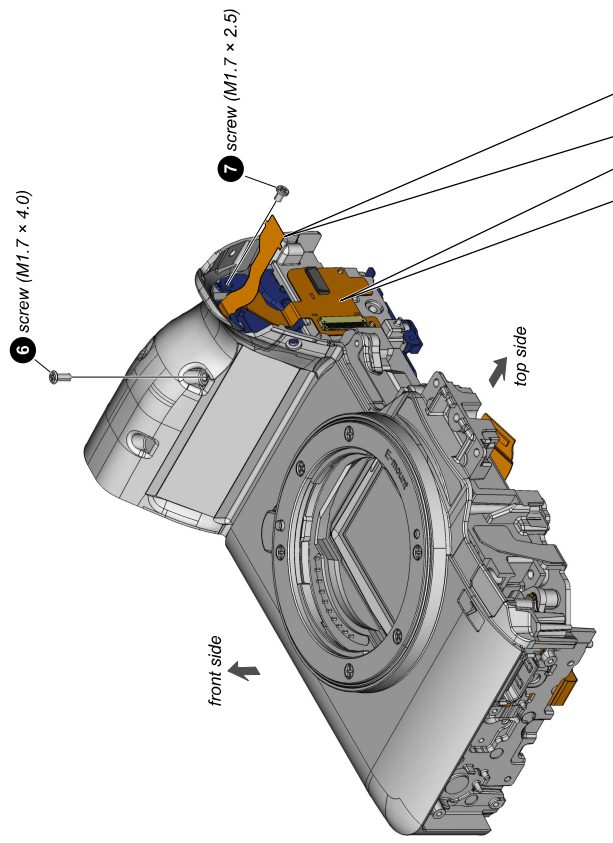


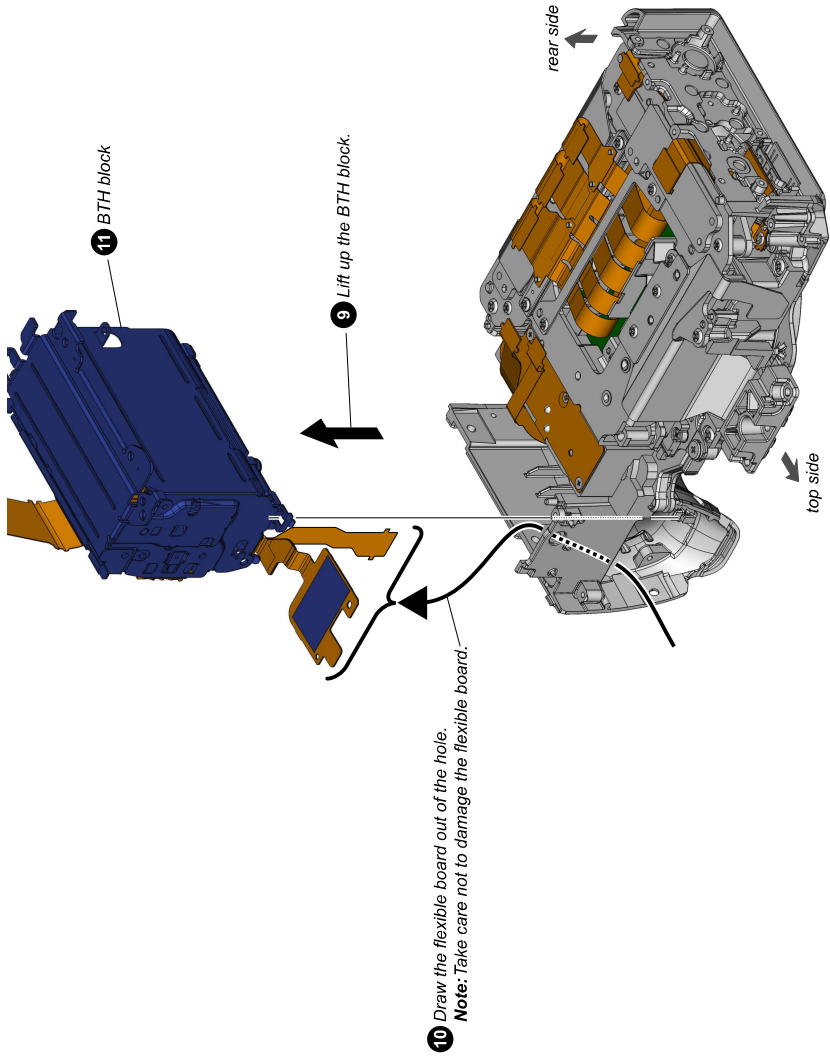
4 tape (631S #25) 7mm x 50 mm BLK

47. LOUDSPEAKER BLOCK

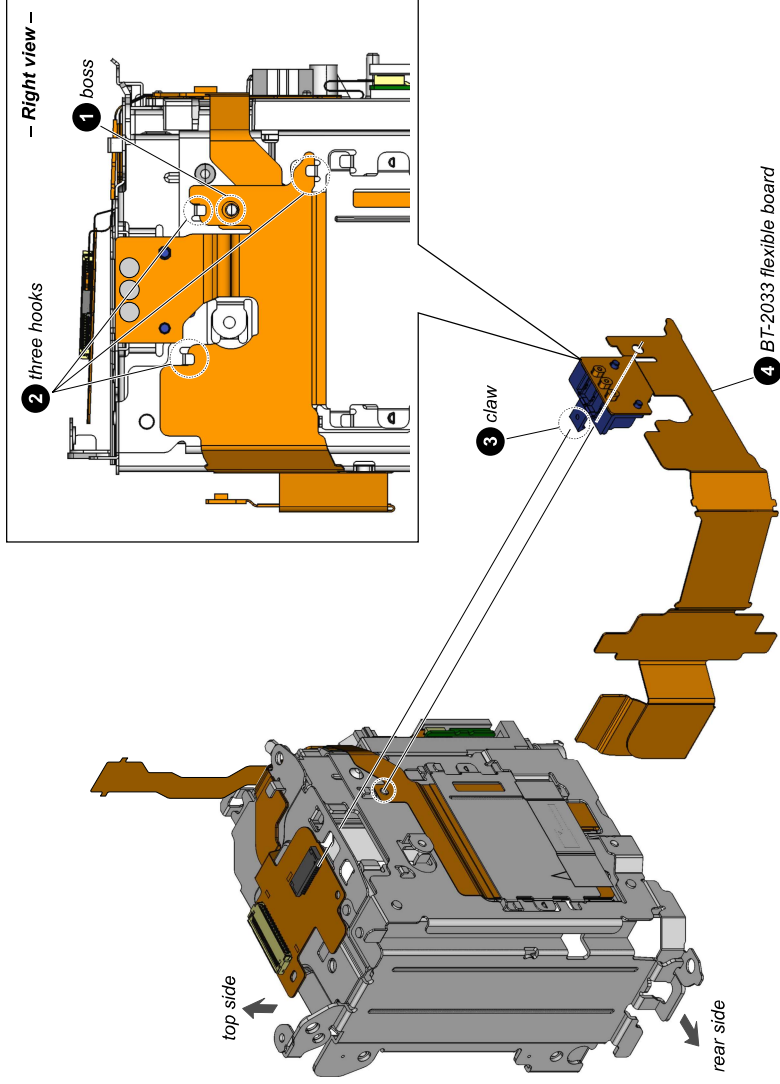
- The loudspeaker block can be disassembled as shown in the figure below.

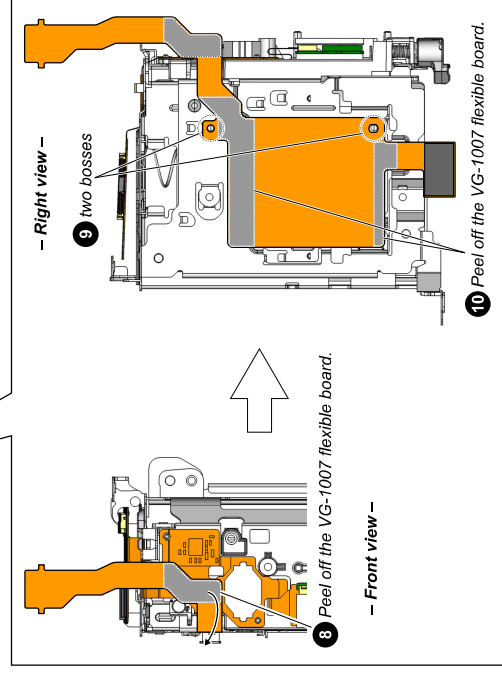
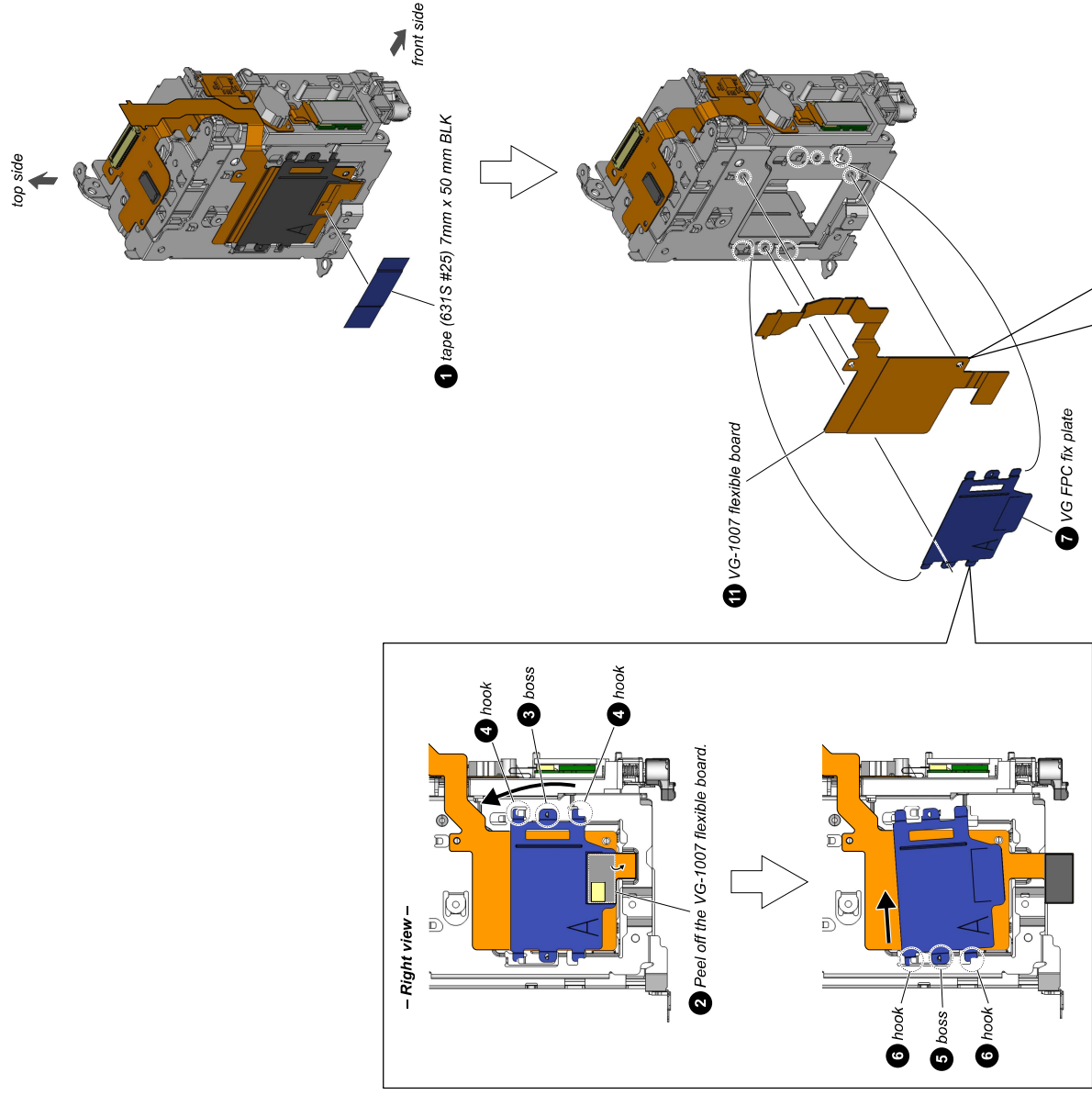




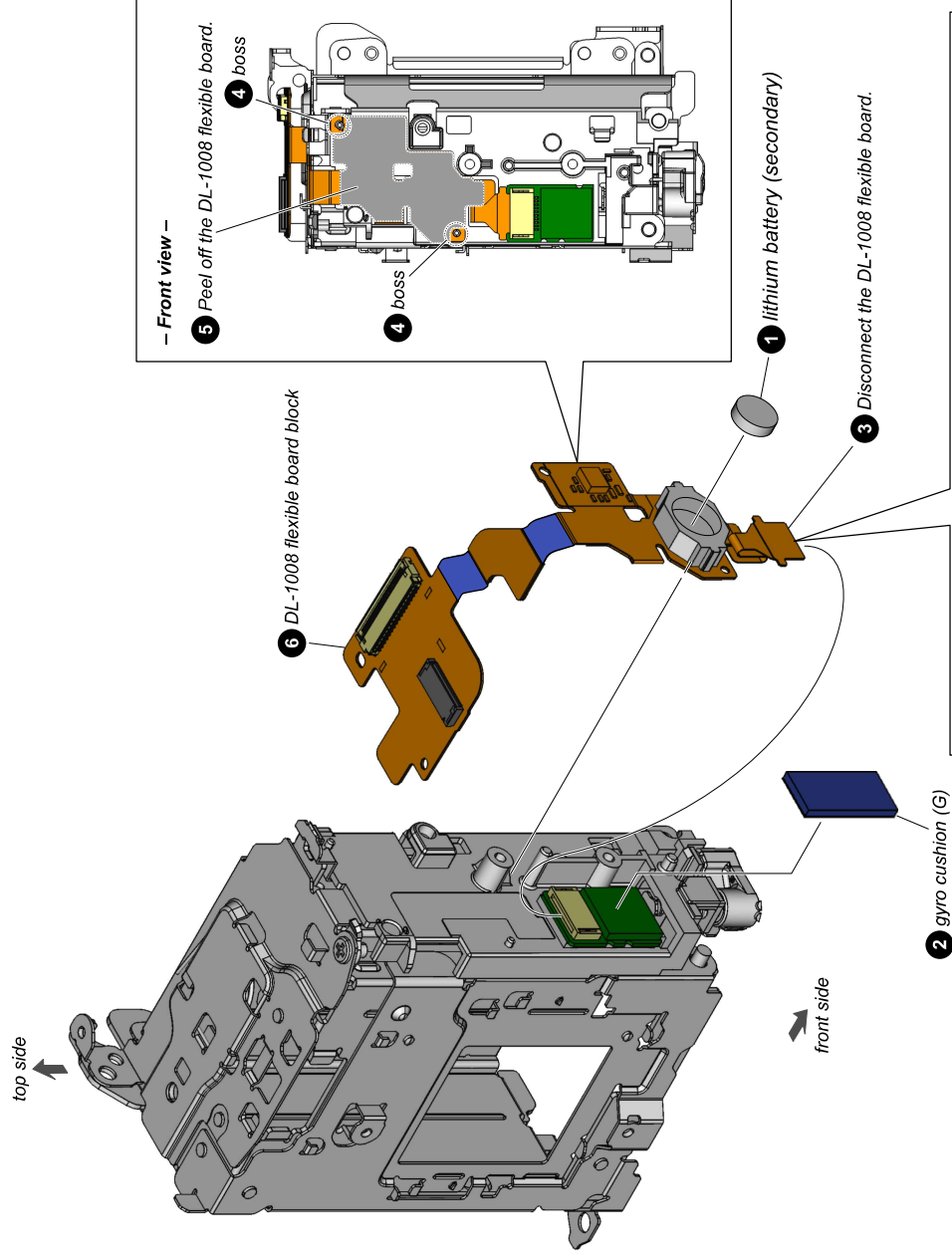


49. BT-2033 FLEXIBLE BOARD

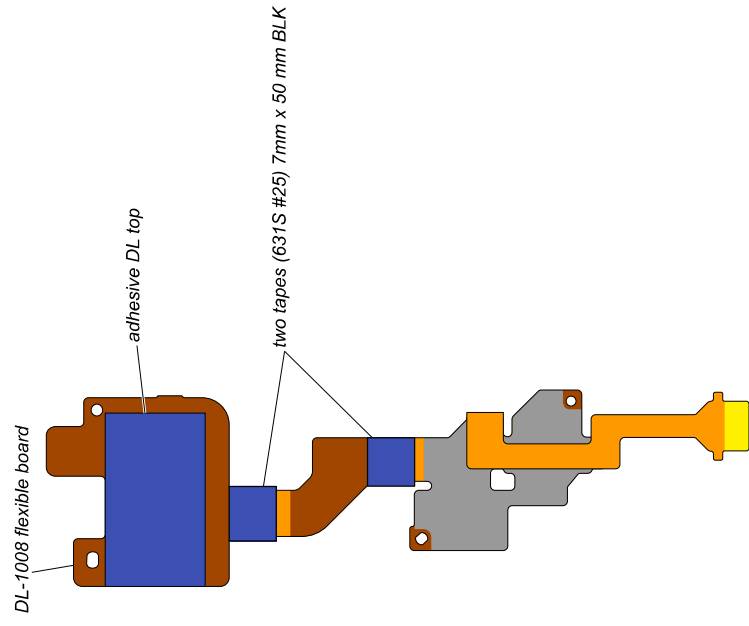




51. DL-1008 FLEXIBLE BOARD BLOCK



• The DL-1008 flexible board block can be disassembled as shown in the figure below.



ASSEMBLY

OPERATION NOTES

Make sure that the conductive side of a flexible board does not have any stain or foreign materials.

Do not touch the conductive side of flexible boards with bare hands.

Plug in a flexible board straight, fully into the connector until it reaches the end inside. (Fig. 1, Fig. 2, Fig. 3)

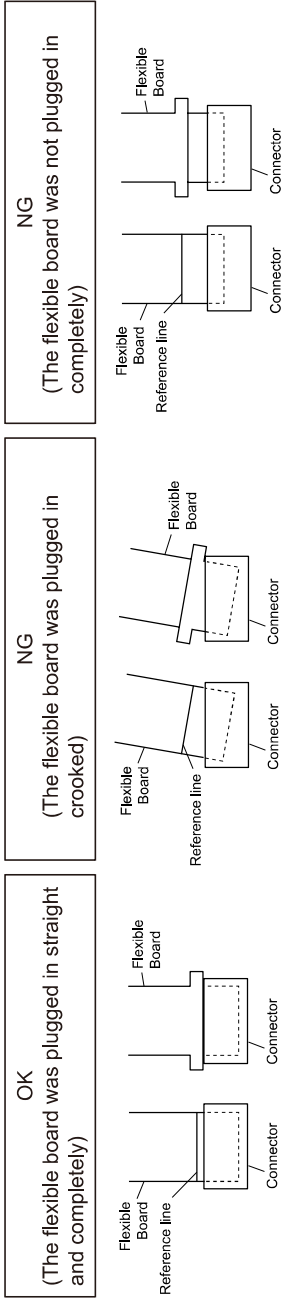


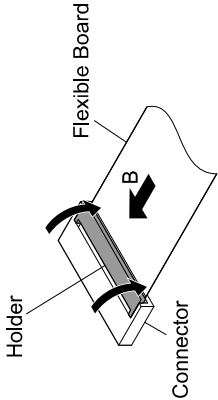
Fig. 1

Fig. 2

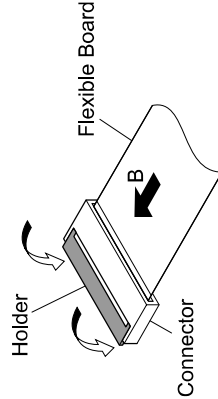
Fig. 3

When closing the connector's holder, press it evenly while pushing a flexible board in direction B.

Type 1

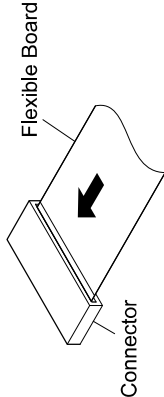


Type 2



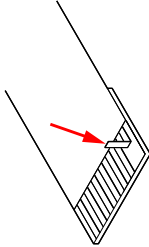
When installing the connector (without holder), plug in a flexible board straight until it stops.

Type 3



Plugged in straight and completely.

- Make sure that the flat cable and flexible board are not cracked or bent at the contact end.
- If the terminal is cracked or came off, replace it.



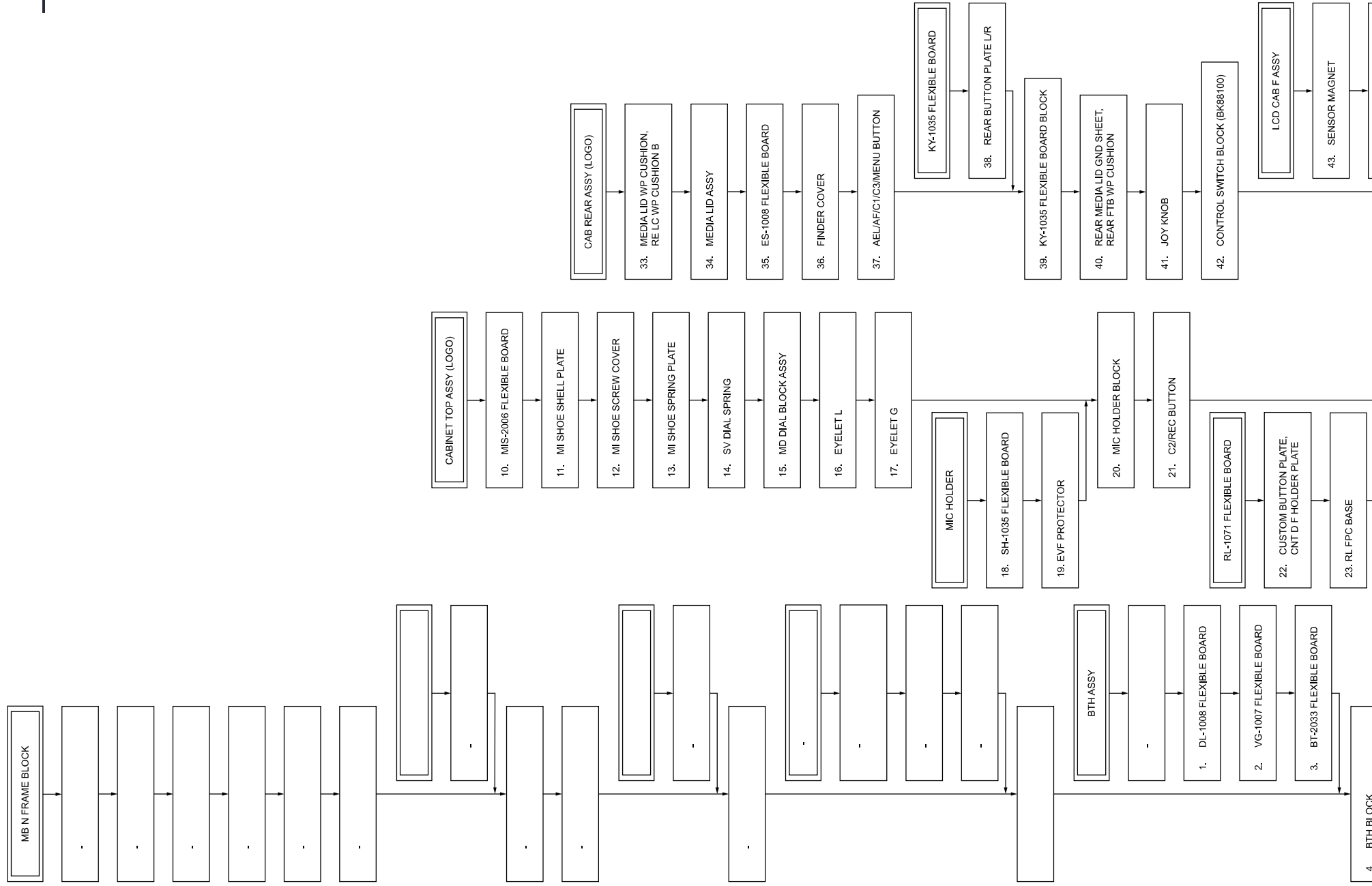
- Do not apply excessive force to the gilded flexible board.
- The proper way to disconnect a connector is to grab the connector instead of the wires. If you pull on the wires, they might be broken.

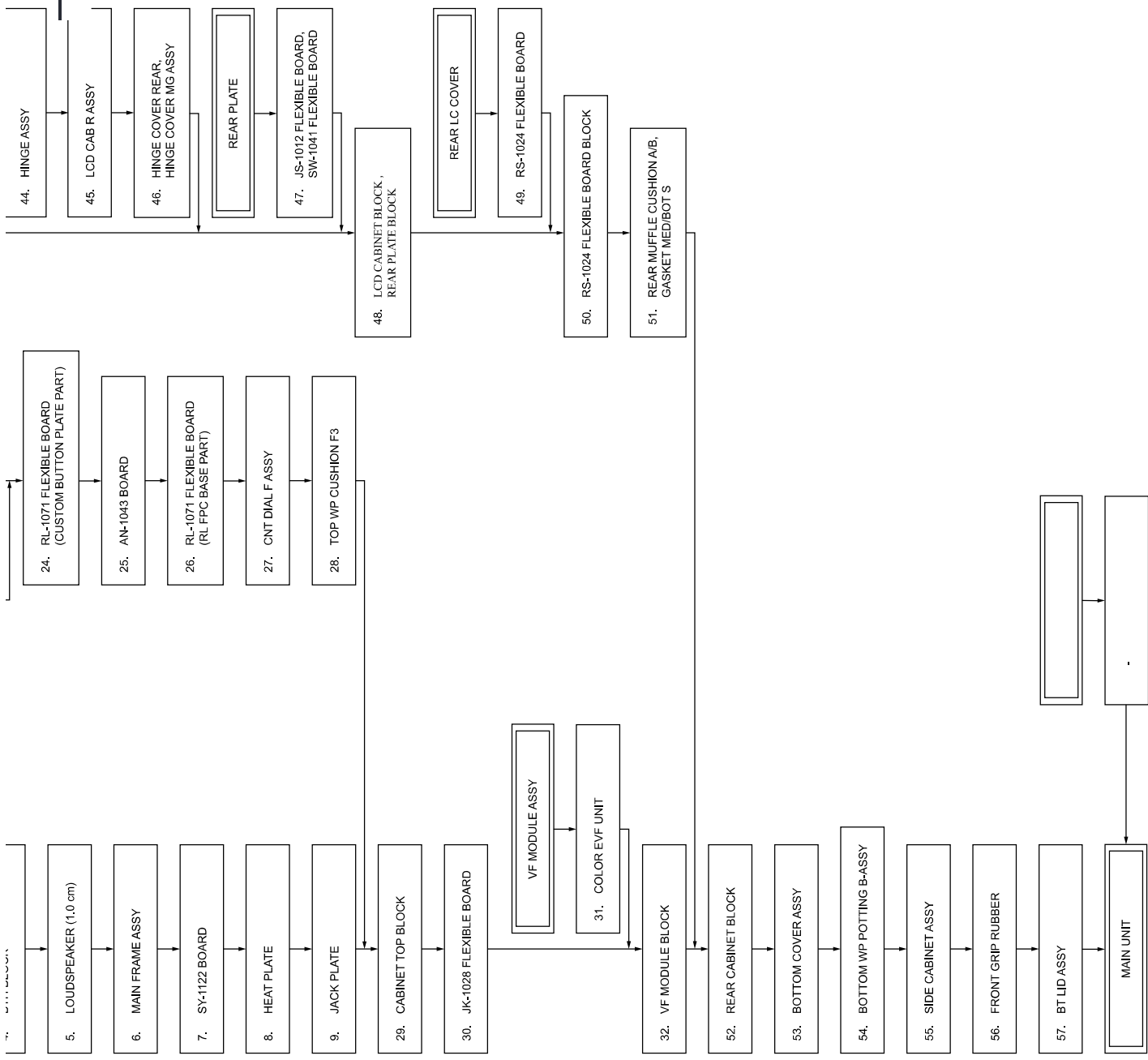
SERVICE TOOLS

Display	Use	Part No.
ADHESIVE (243)	ADHESIVE (243) 50ML BLU	760004201
G-85	Grease (G-85)	J6082626A

ASSEMBLY FLOW

This set can be assembled in the order shown below.





② Fold the VG-1007 flexible board.

guide line

0+0.5

① VG-1007 flexible board

– Right view –

③ two bosses

⑤ Paste the VG-1007 flexible board with adhesive sheet.

– Front view –

④ Paste the VG-1007 flexible board with adhesive sheet.

– Right view –

⑦ hook

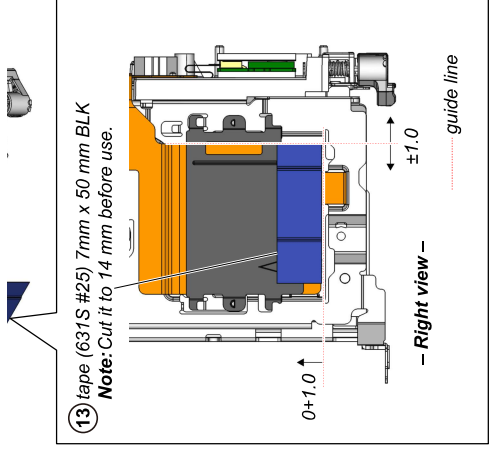
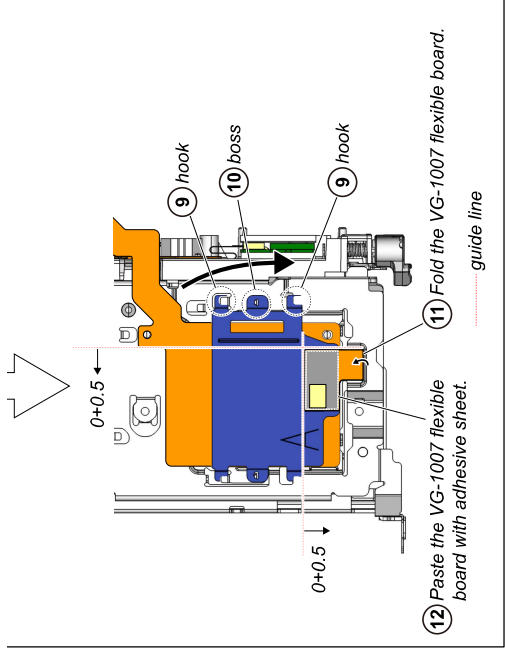
⑧ boss

⑦ hook

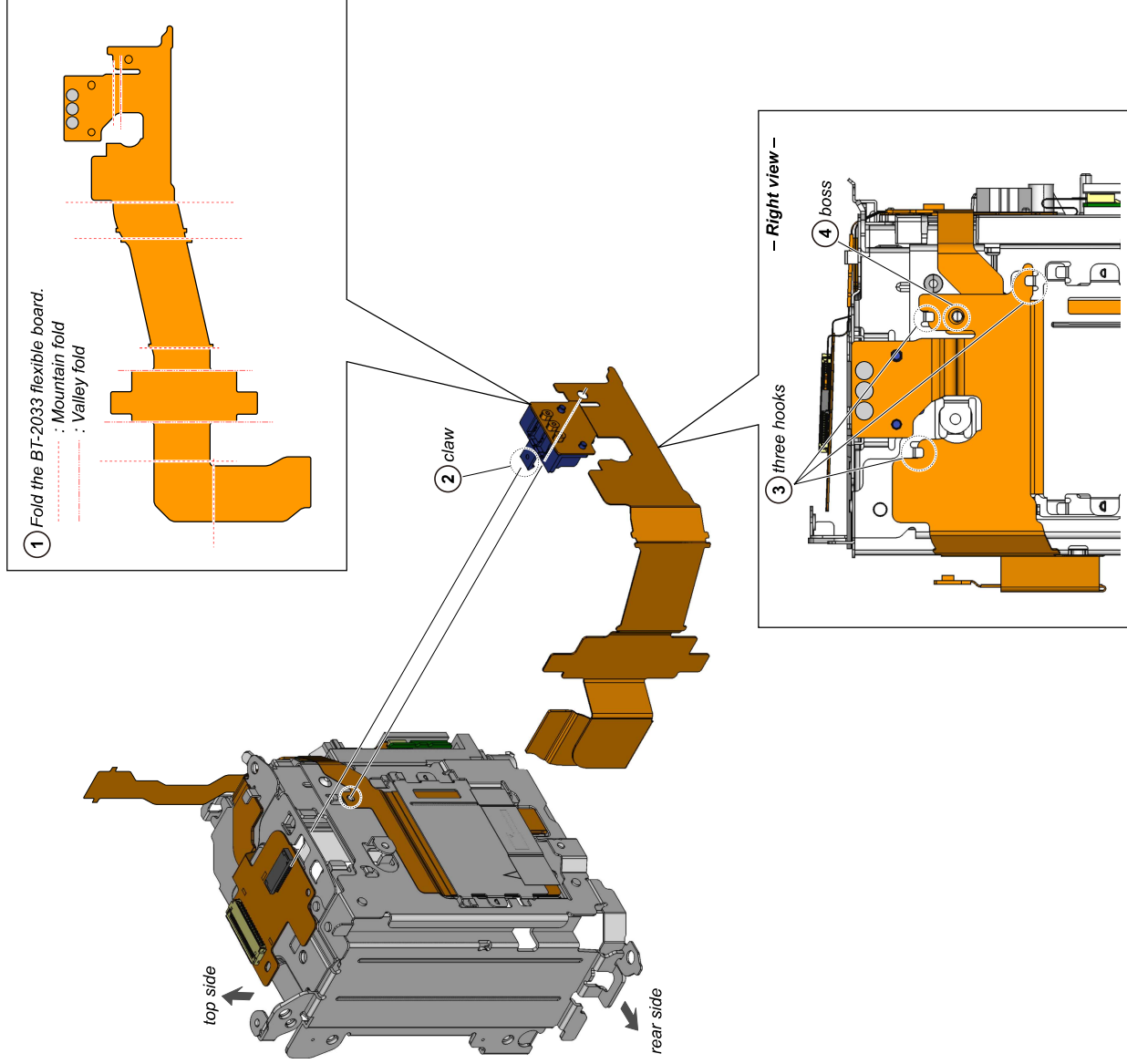
⑥ VG FPC fix plate

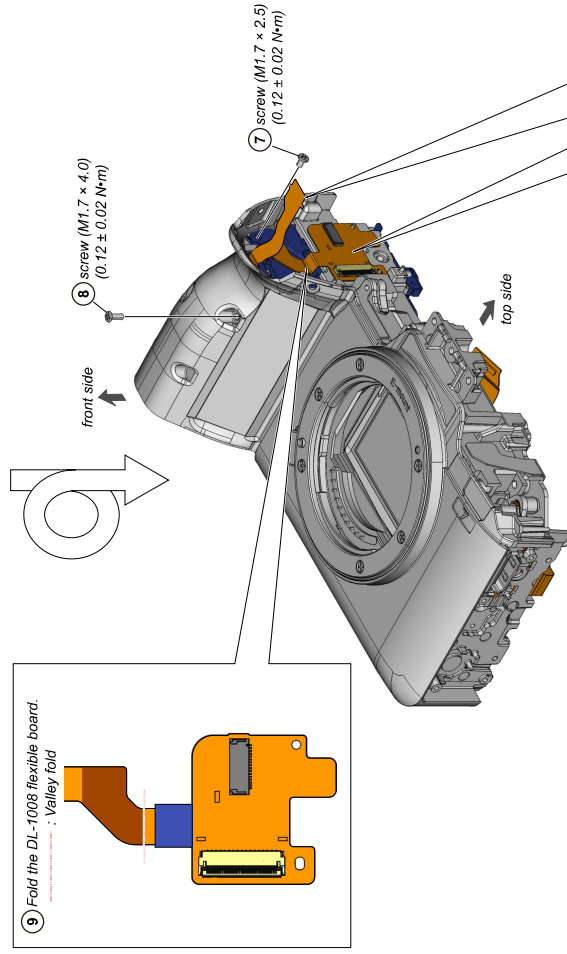
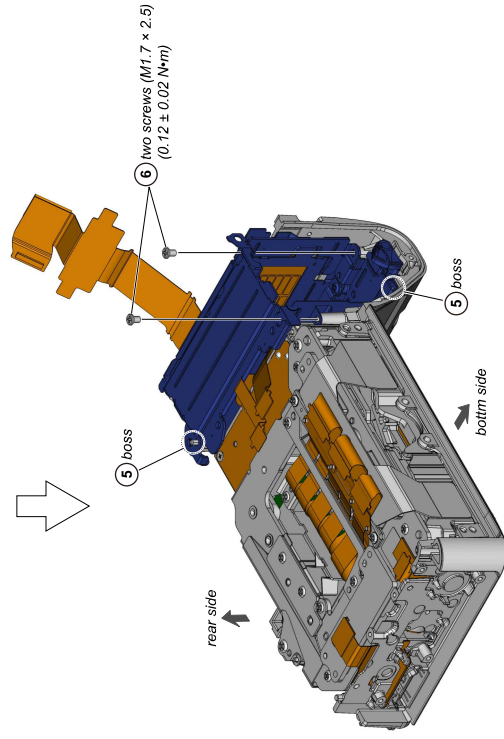
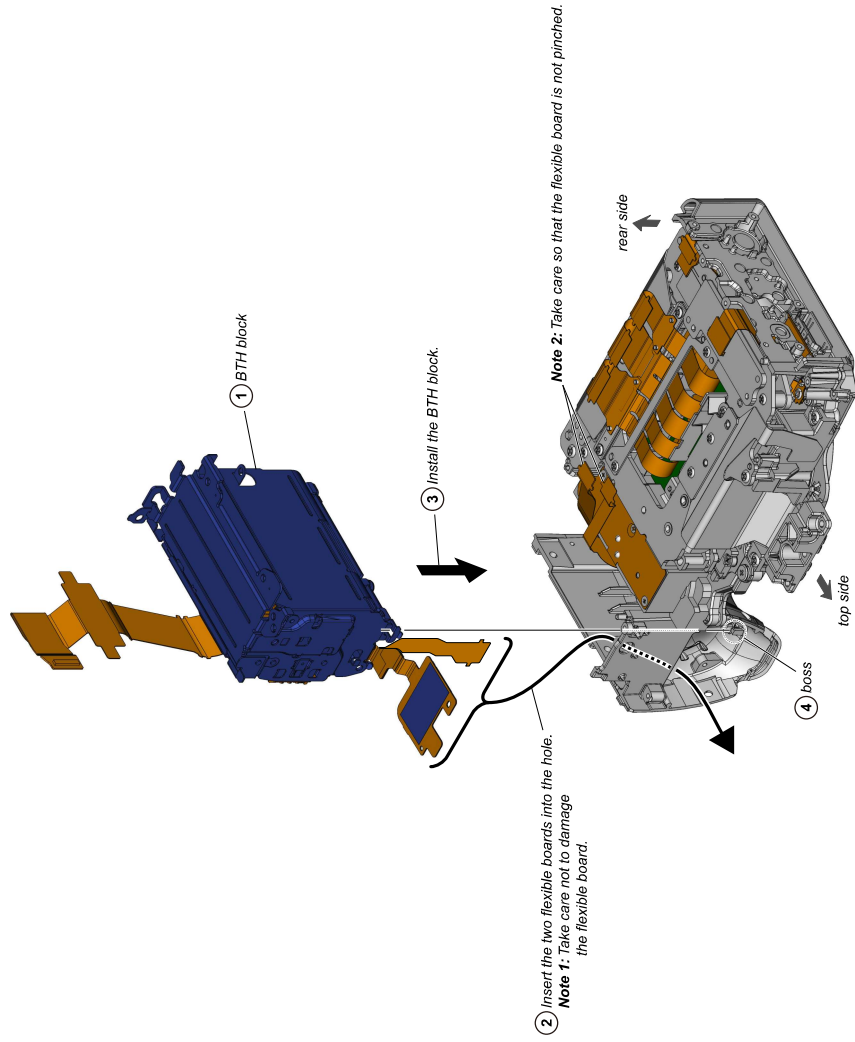
top side

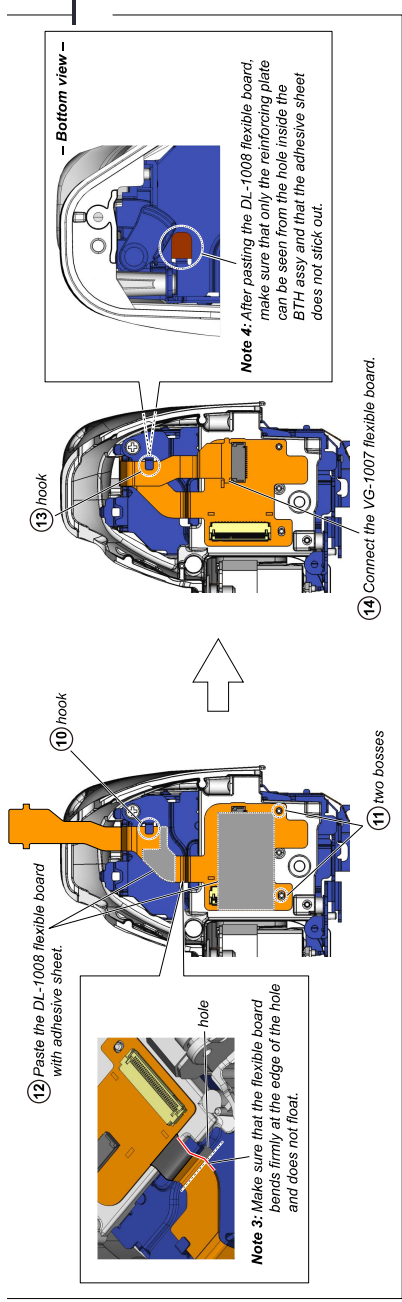
front side



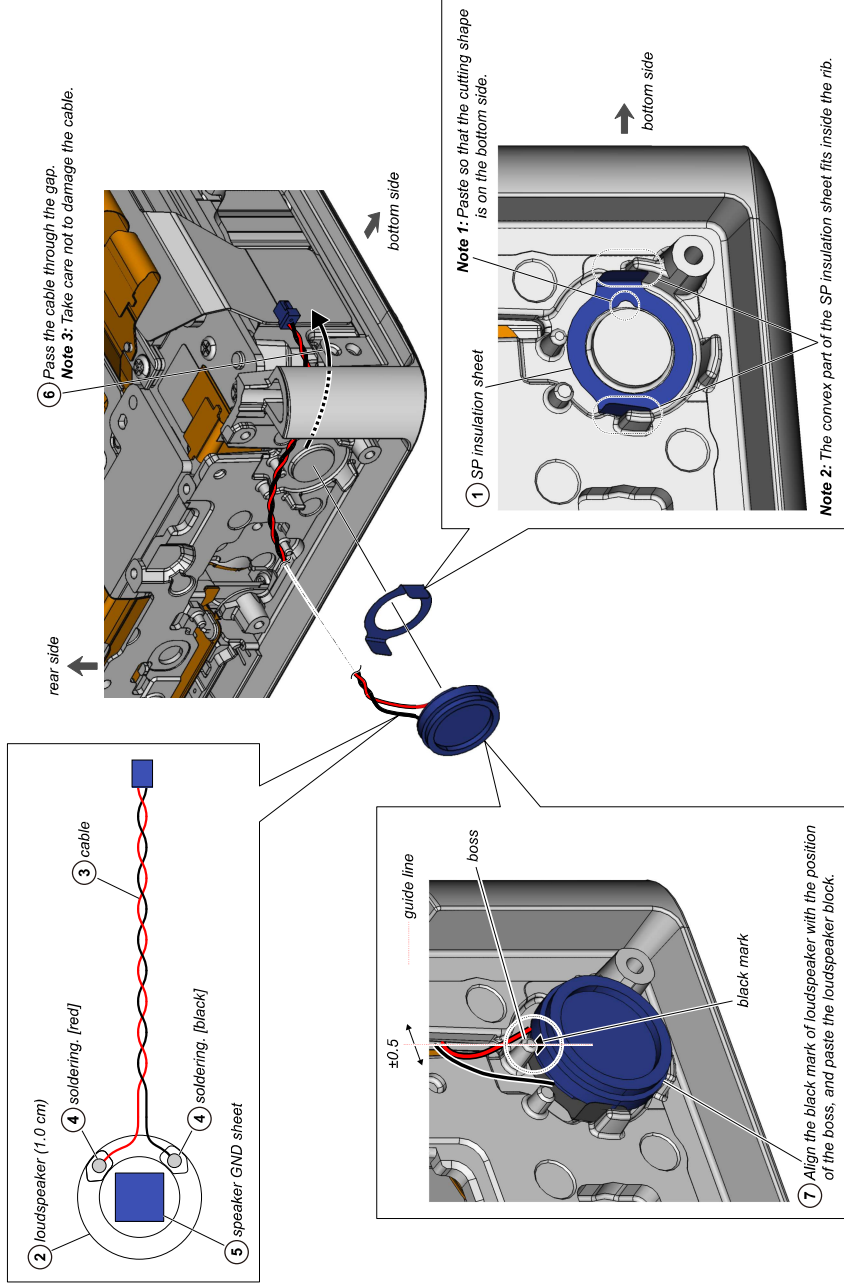
3. BT-2033 FLEXIBLE BOARD







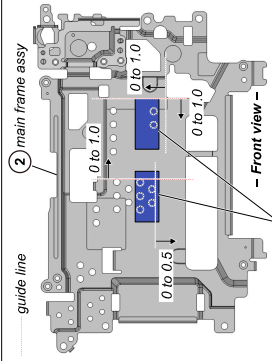
5. LOUDSPEAKER (1.0 cm)



6. MAIN FRAME ASSY

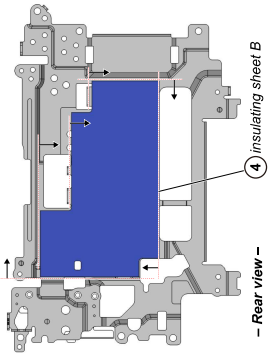
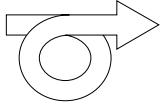
- 7 Tighten the four screws (M1.7 × 3.0) in the order of (1) to (4).
(0.12 ± 0.02 N·m)

- 5 Install the main frame block.
Note 4: Take care so that the flexible board is not pinched.

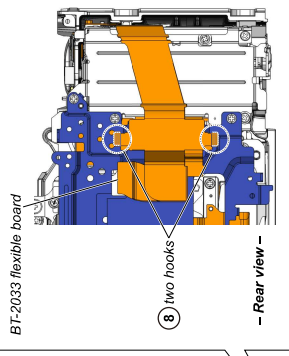
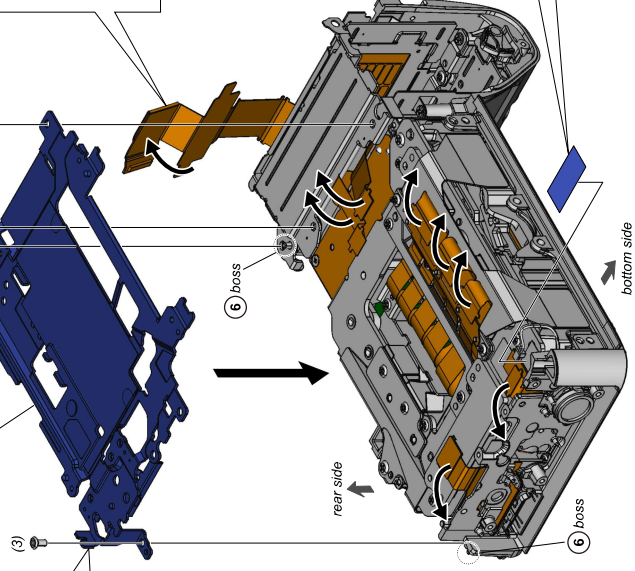


– Front view –

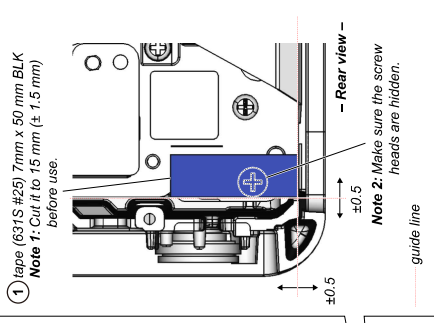
- 3 Two tapes (631S #25) 7mm x 50 mm BLK
Note 1: Cut it to 15 mm (± 1.5 mm) before use.
Note 3: Make sure the holes are completely hidden.



– Rear view –



– Rear view –

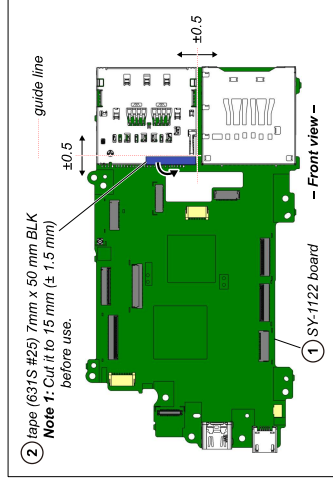


bottom side

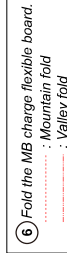
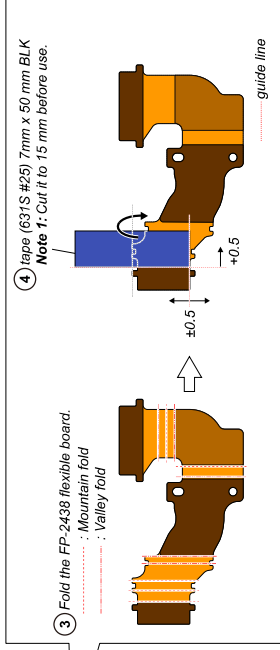
boss

rear side

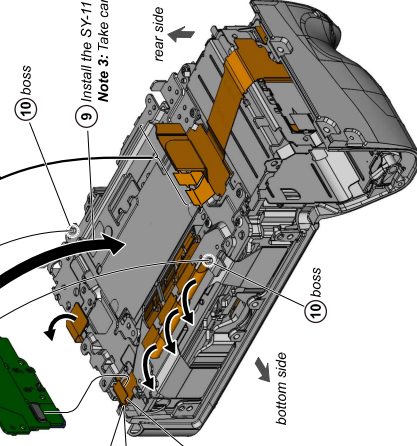
boss



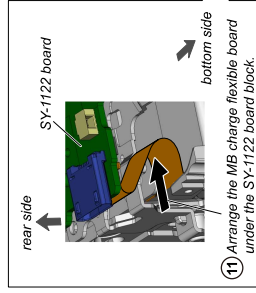
⑤ Connect the FP-2438 flexible board.



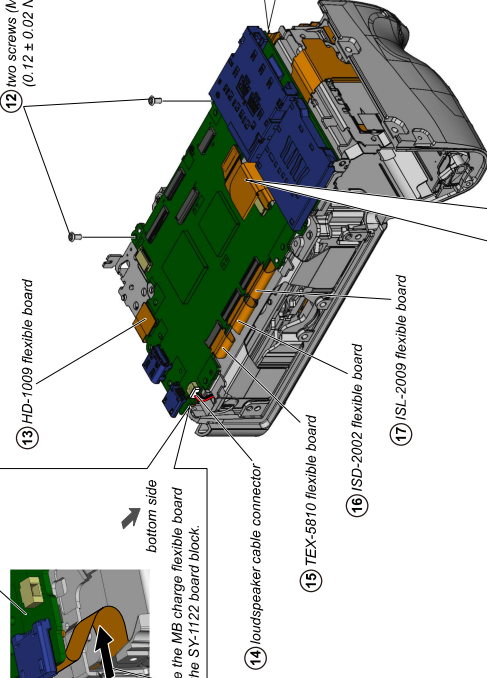
⑧ Insert the three flexible boards into the hole of the SY-1122 board.
Note 2: Take care not to damage the flexible board.



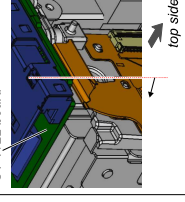
⑦ Connect the MB charge flexible board.



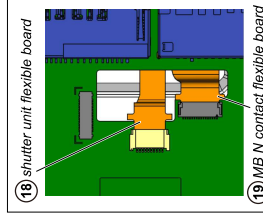
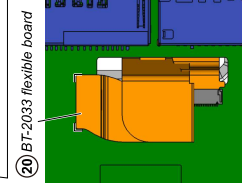
⑫ two screws (M1.7 x 3.0)
 (0.12 $\pm$ 0.02 N·m)



Note 3: Do not protrude above the SY-1122 board.



⑳ BT-2033 flexible board



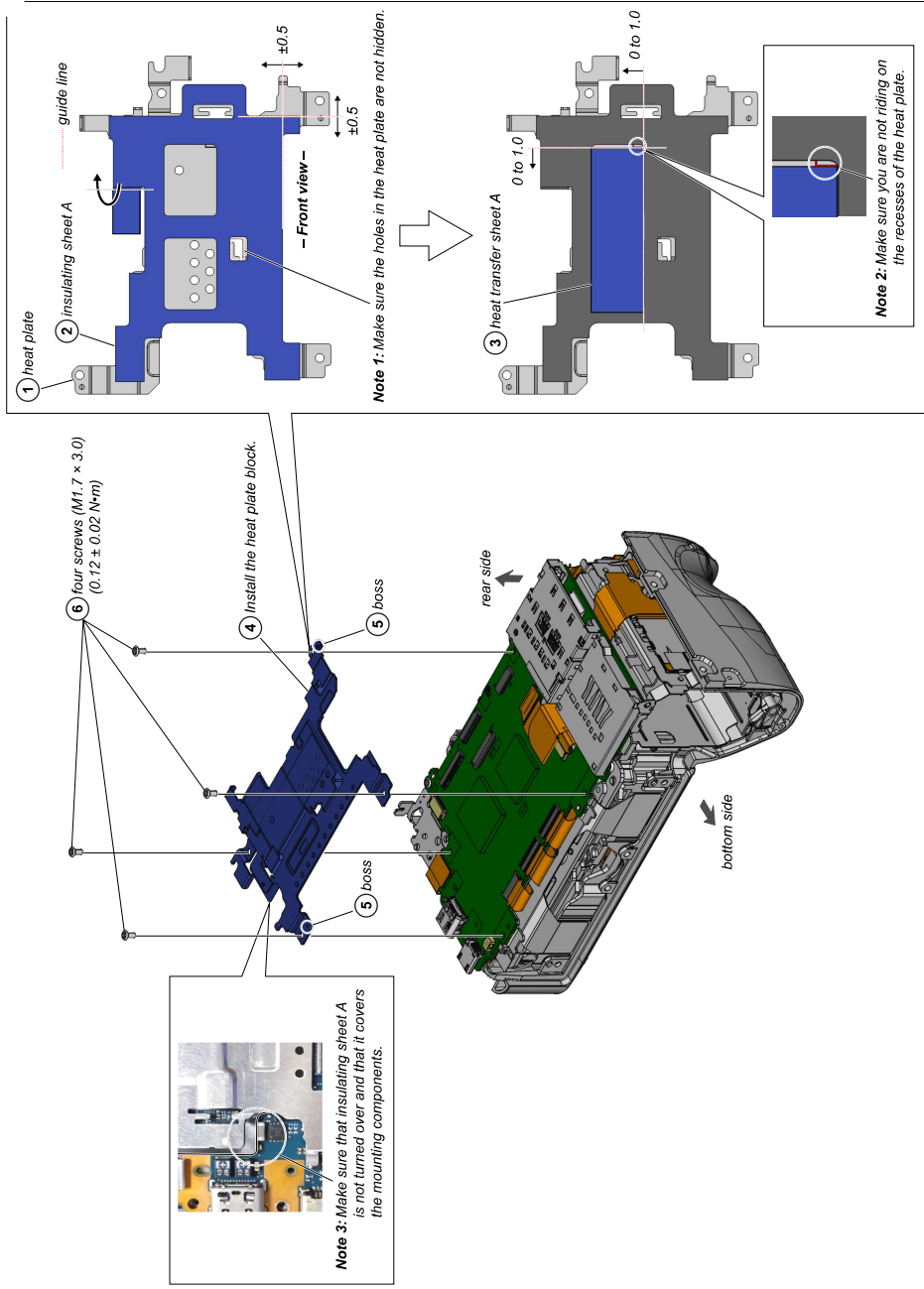
㉓ Paste the FP-2438 flexible board with adhesive sheet.

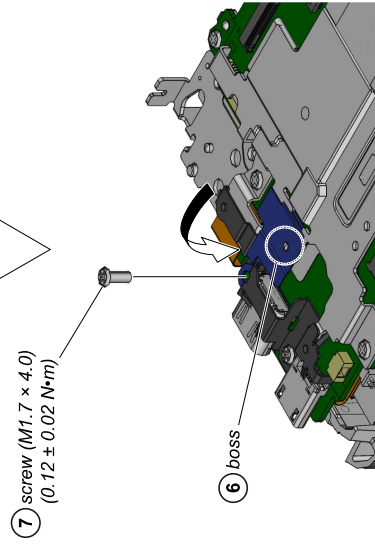
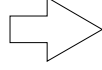
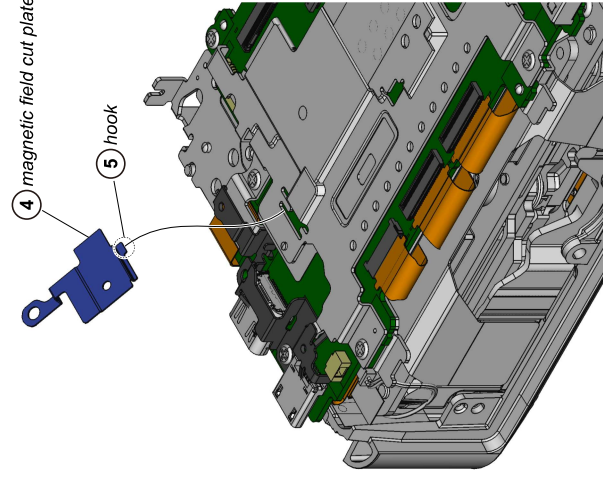
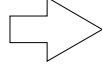
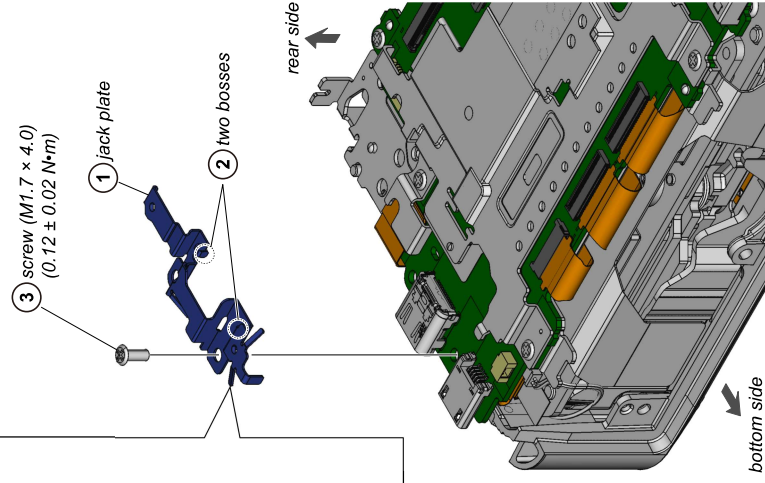
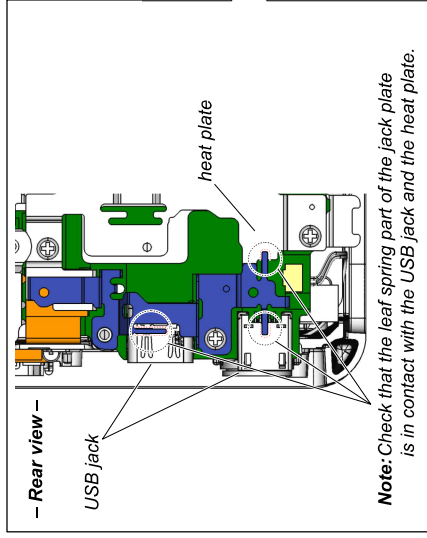
㉔ Connect the FP-2438 flexible board.

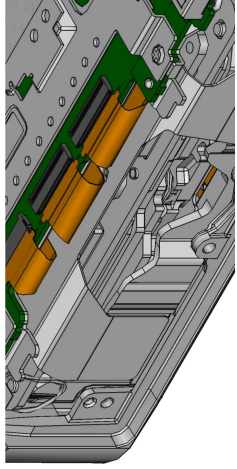
㉕ two bosses



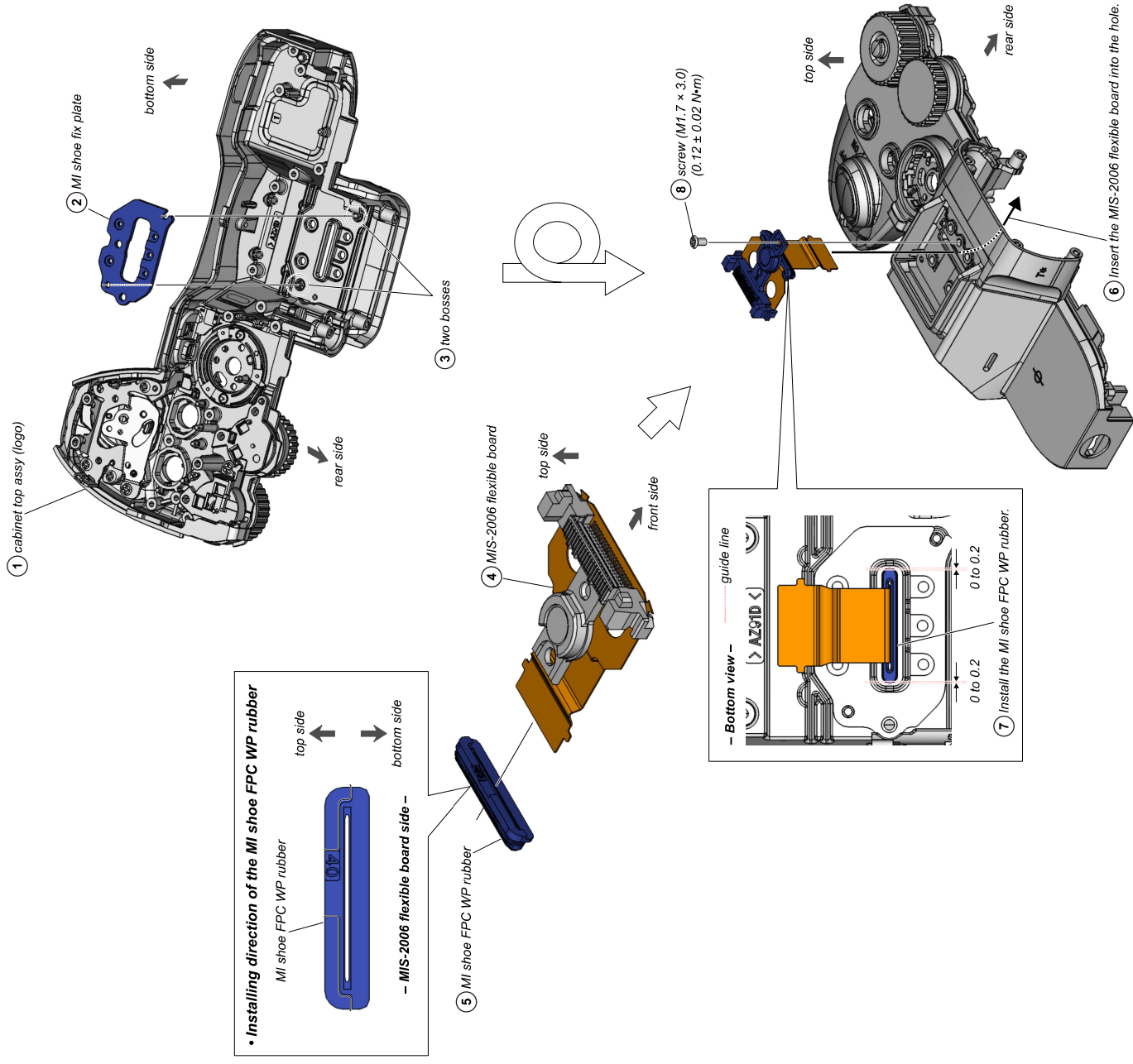
8. HEAT PLATE







10. MIS-2006 FLEXIBLE BOARD



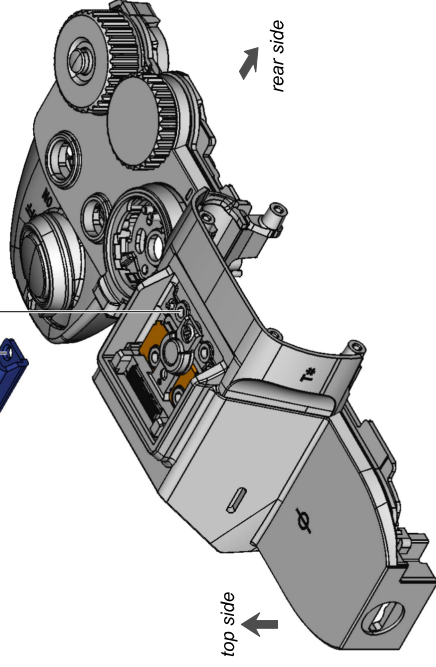
11. MI SHOE SHELL PLATE

② four screws (M1.7 × 3.3)
(0.20 ± 0.02 N•m)

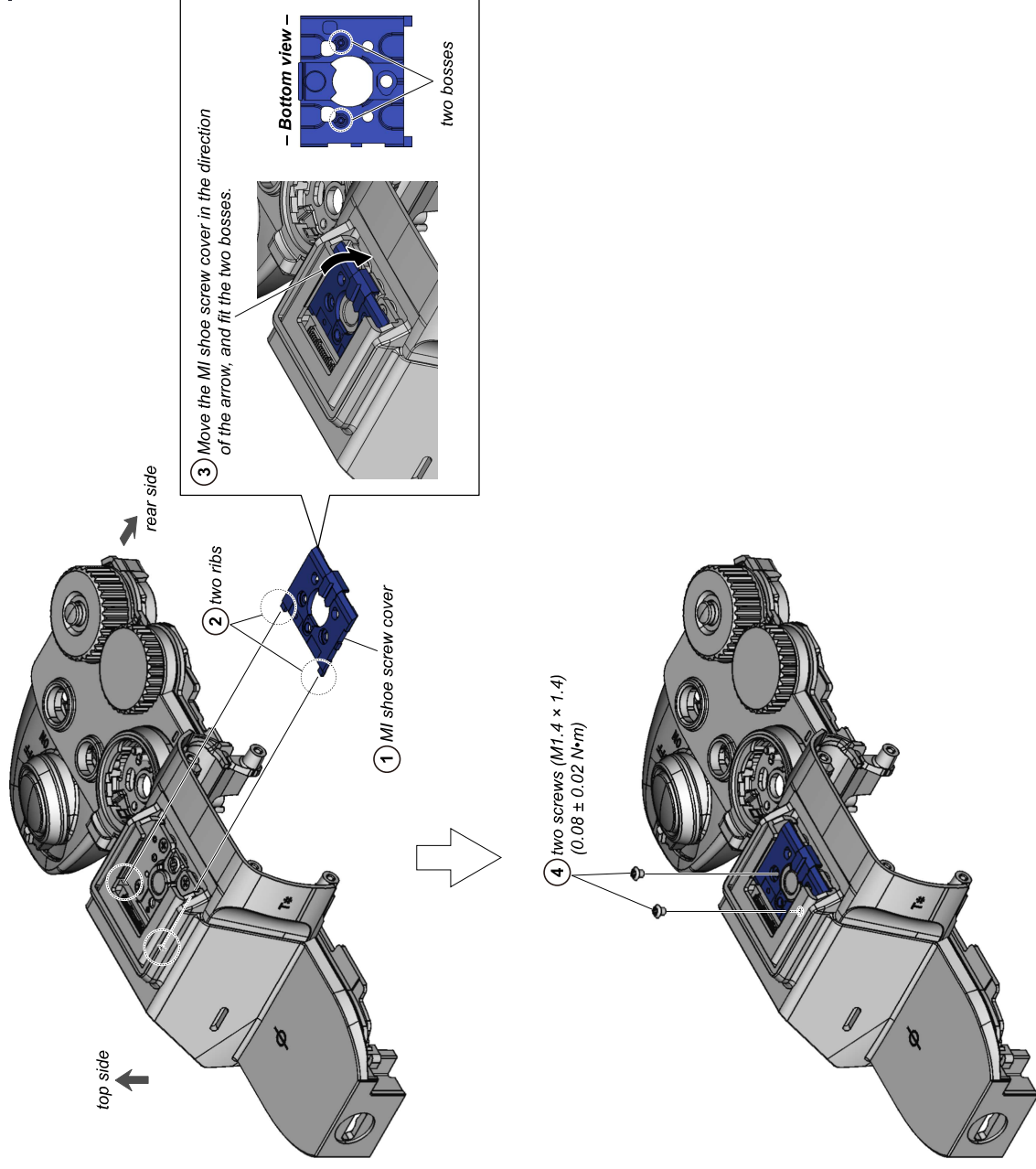
Note: Apply the adhesive bond to the tip of screws.

ADHESIVE (243)

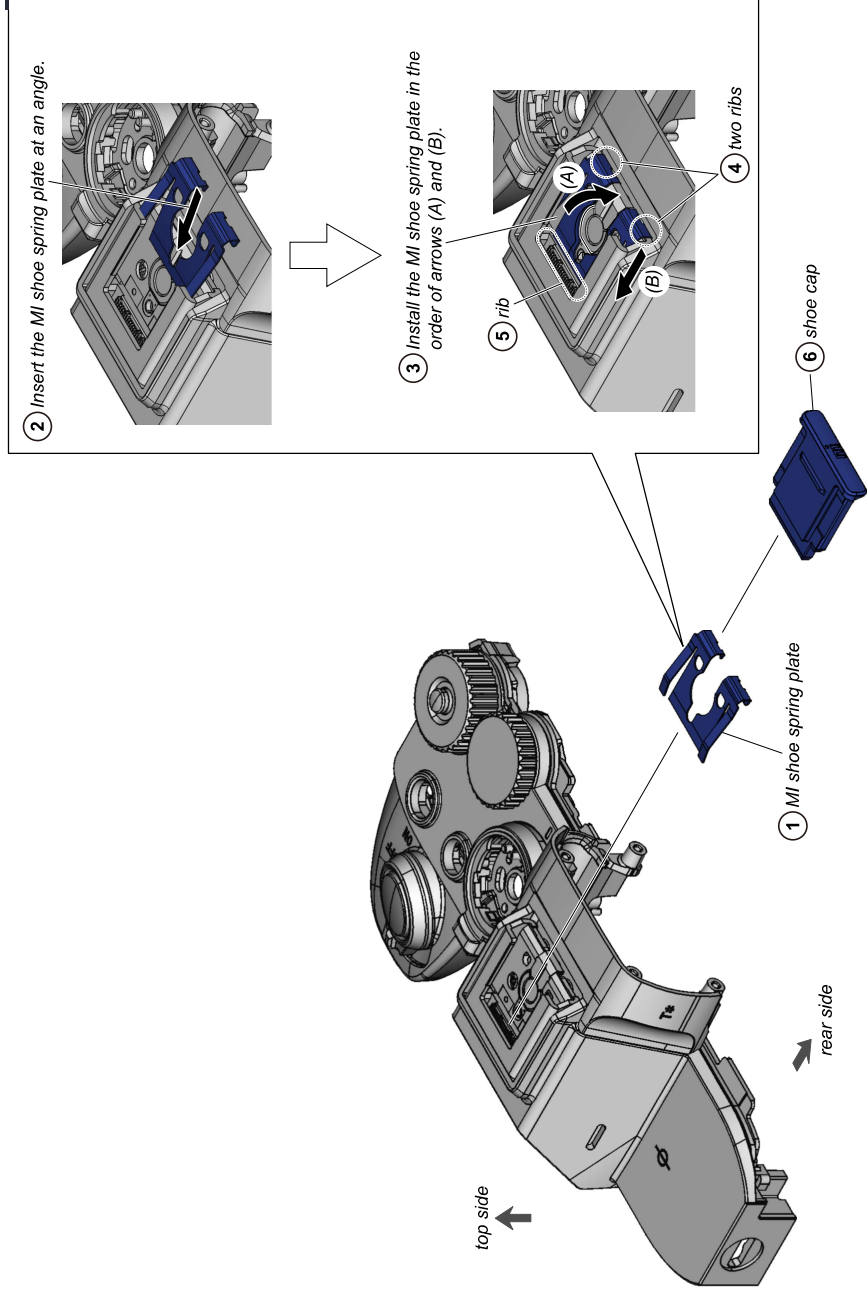
① MI shoe shell plate

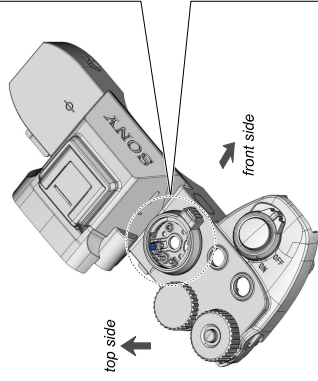


12. MI SHOE SCREW COVER

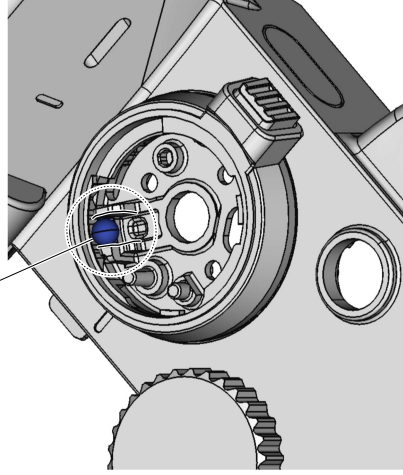


13. MI SHOE SPRING PLATE

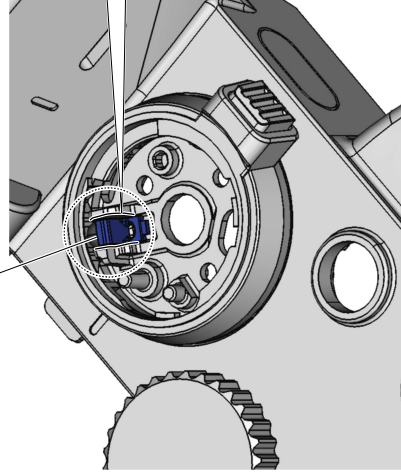




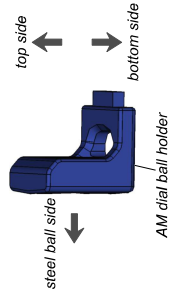
① Install the steel ball between the ribs.



② Install the AM dial ball holder between the ribs.



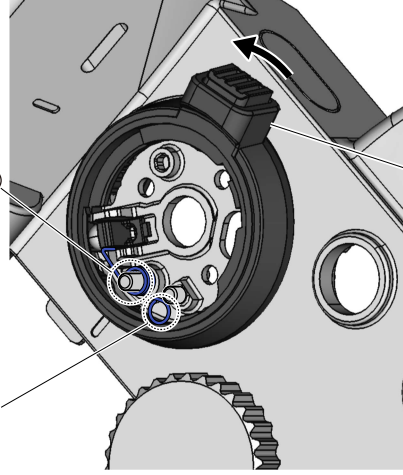
• Installing direction of the AM dial ball holder



Note 1: Put the tip end hole of spring inside.

④

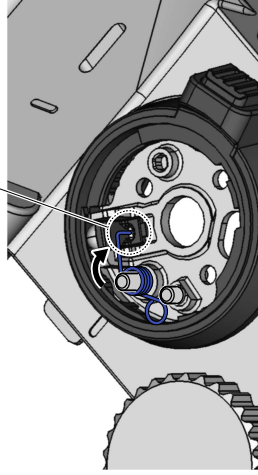
Attach the hole in the center of the SV dial spring to the boss.

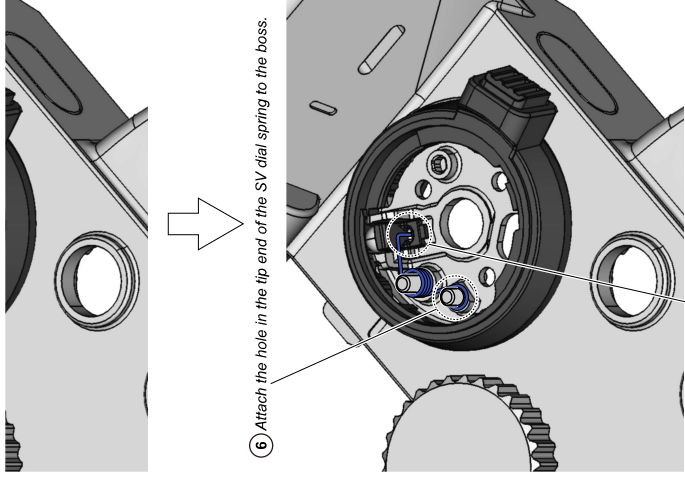


③ Set the lock lever position to "camera".



⑤ Hook the tip of the SV dial spring into the hole in the AM dial ball holder.

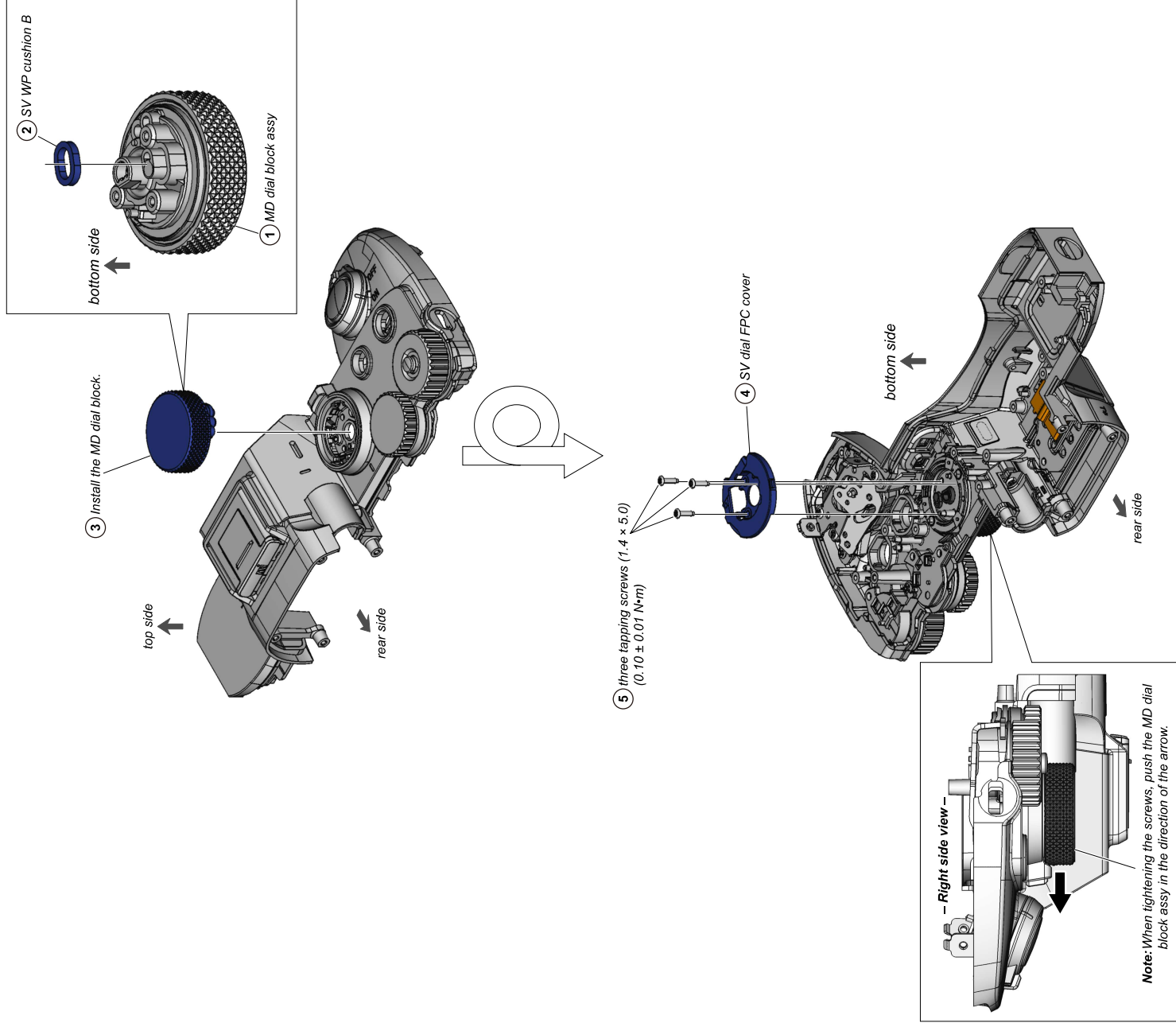


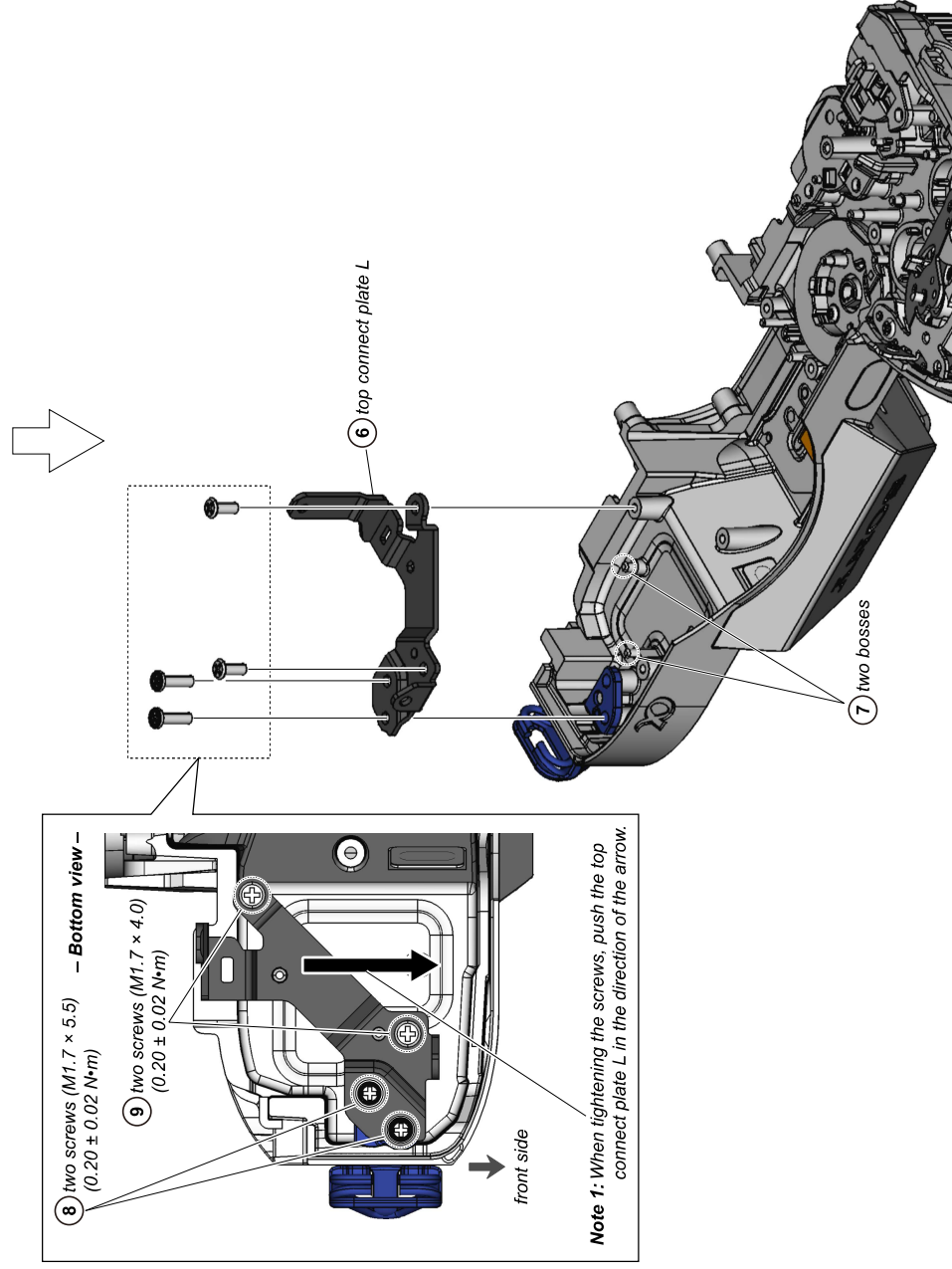
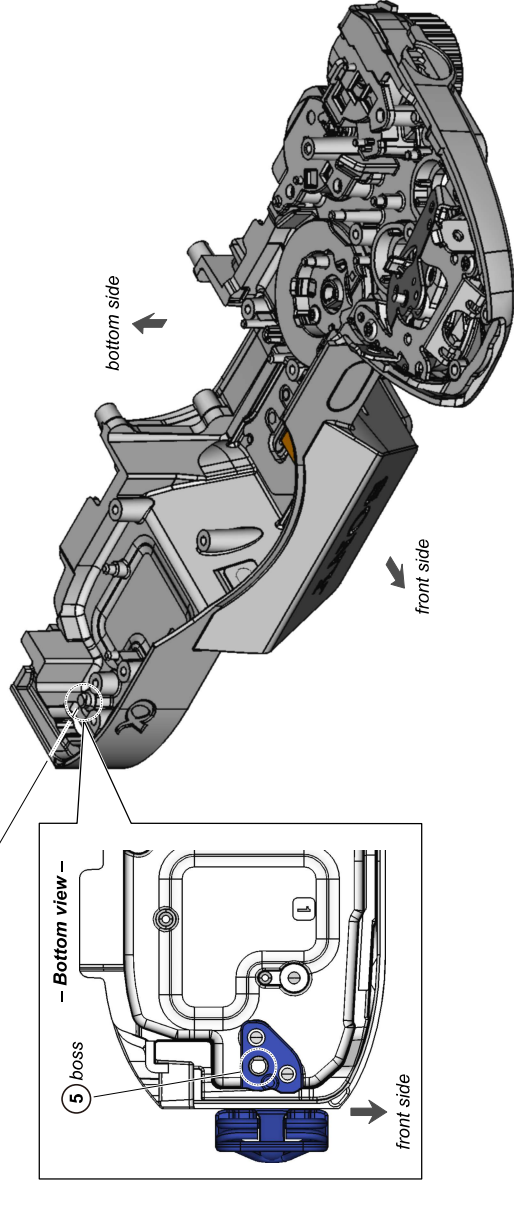
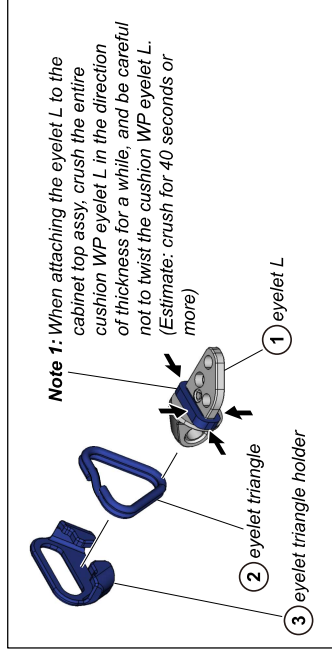


⑥ Attach the hole in the tip end of the SV dial spring to the boss.

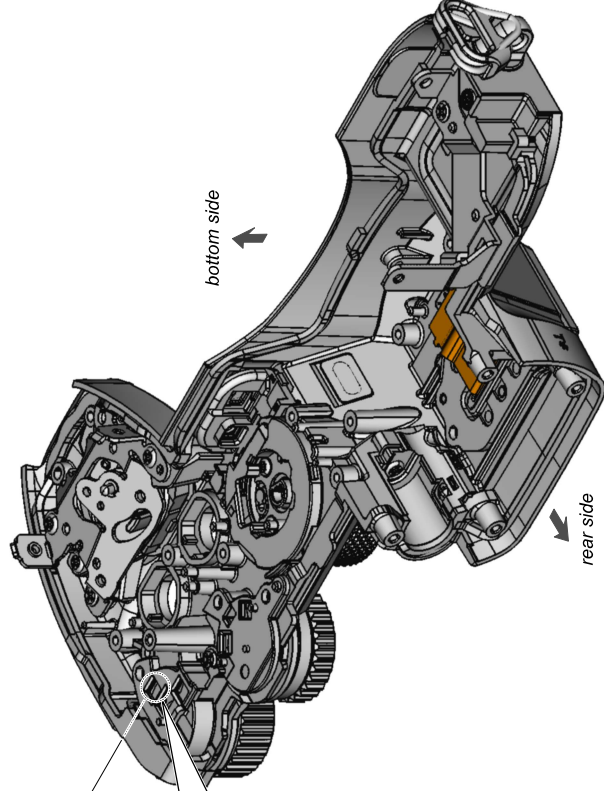
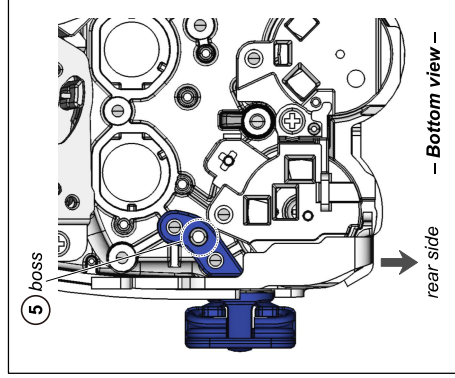
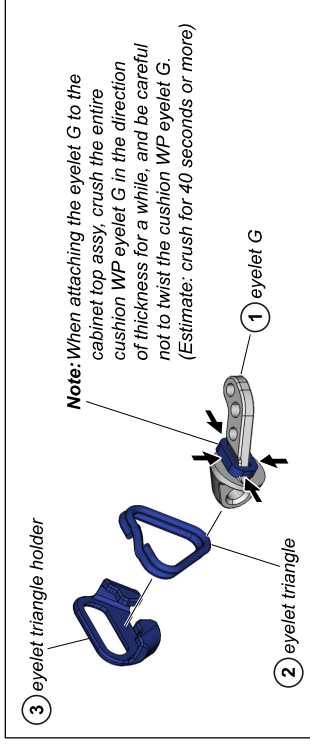
Note 2: Work while pressing the tip of the spring.

15. MD DIAL BLOCK ASSY

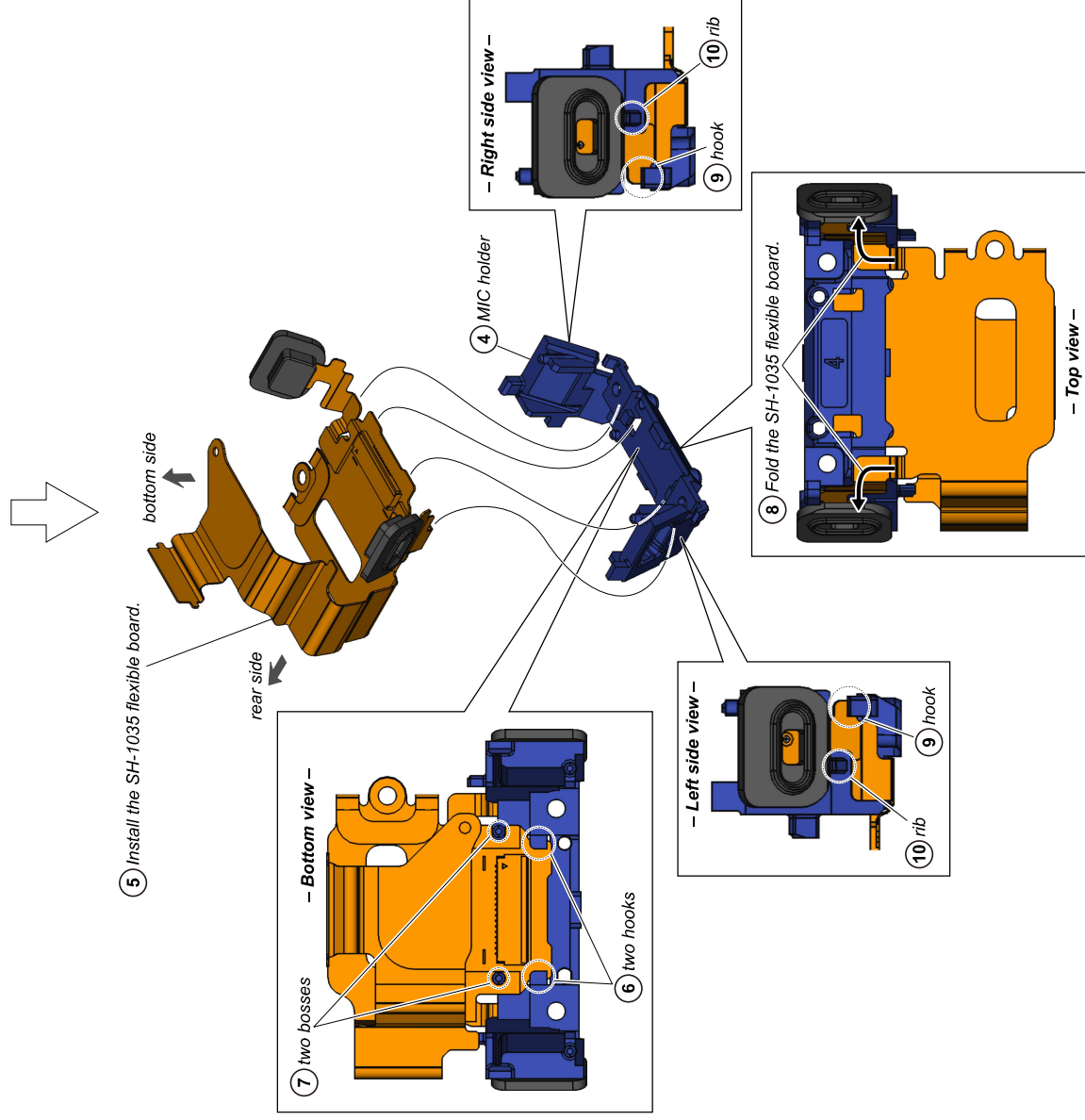
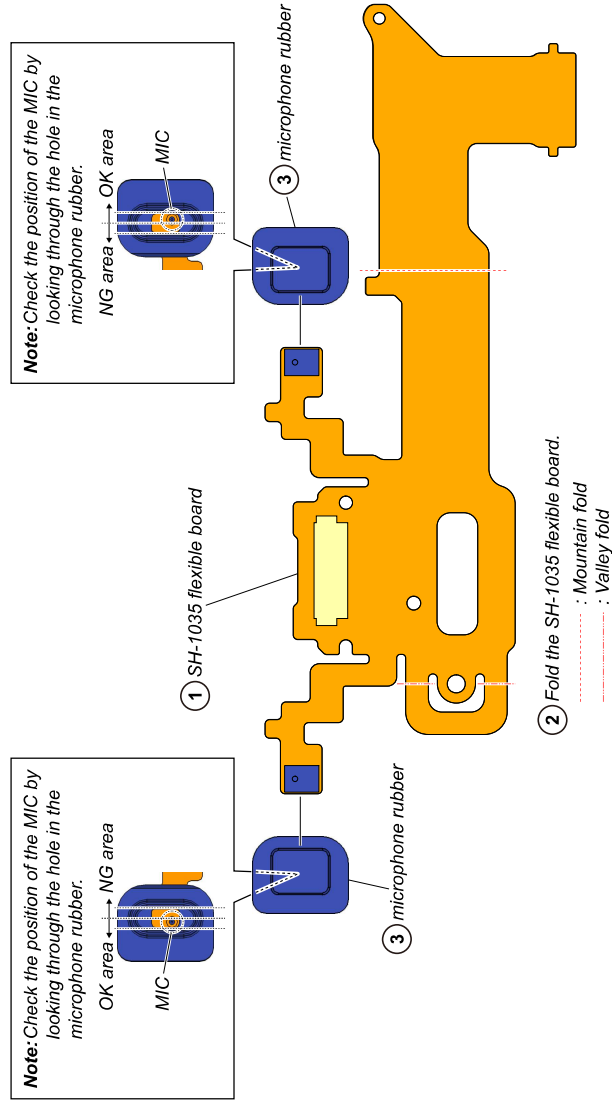


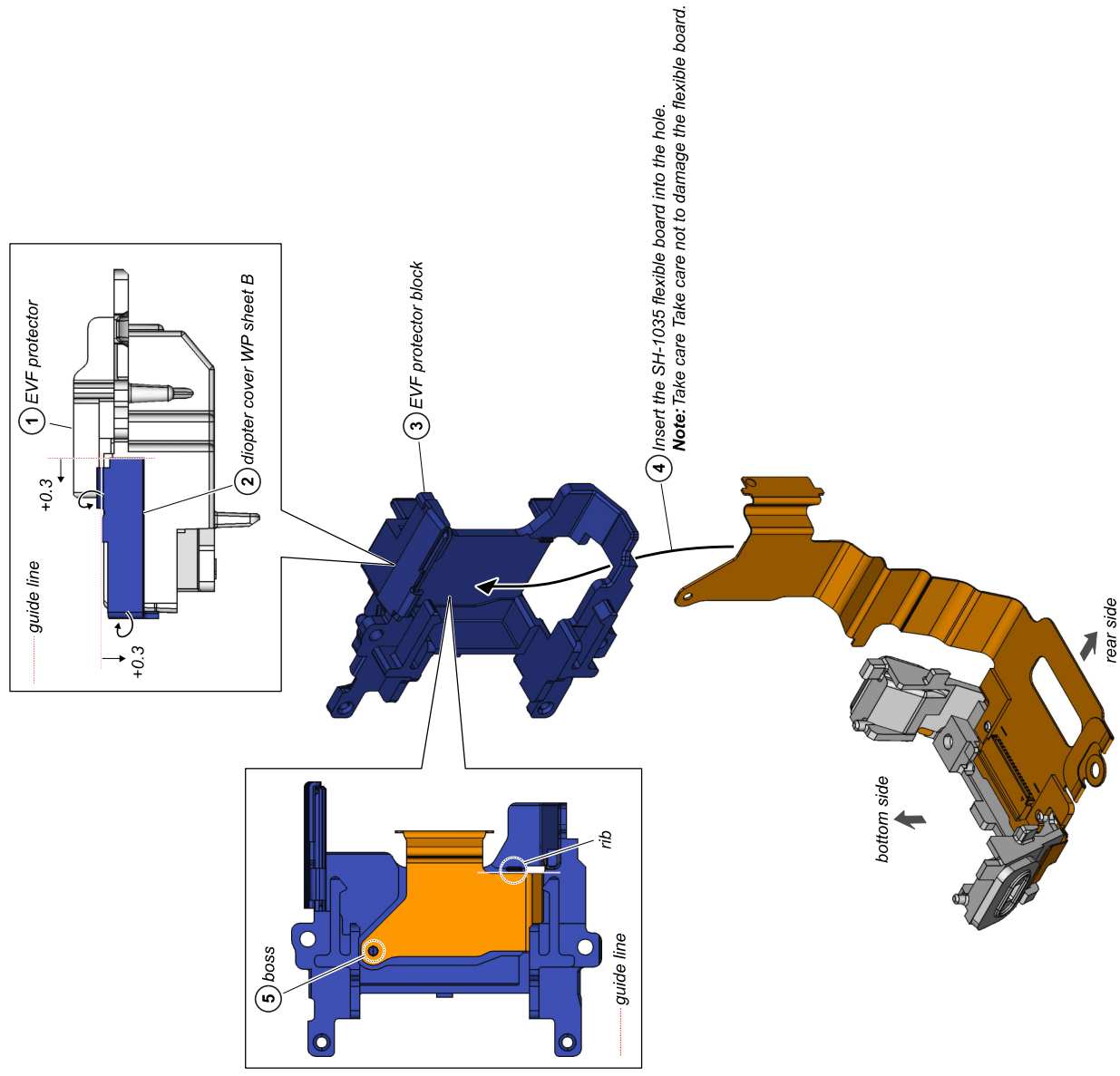


17. EYELET G



18. SH-1035 FLEXIBLE BOARD





4 two screws (M1.7 x 4.0)
(0.12 ± 0.02 N•m)

5 screw (M1.7 x 2.5)
(0.12 ± 0.02 N•m)

1 MIC holder block

2

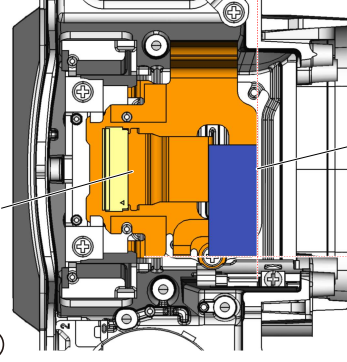
Insert the MIS-2006 flexible board into the hole.

3 two bosses

rear side

bottom side

6 Connect the MIS-2006 flexible board.

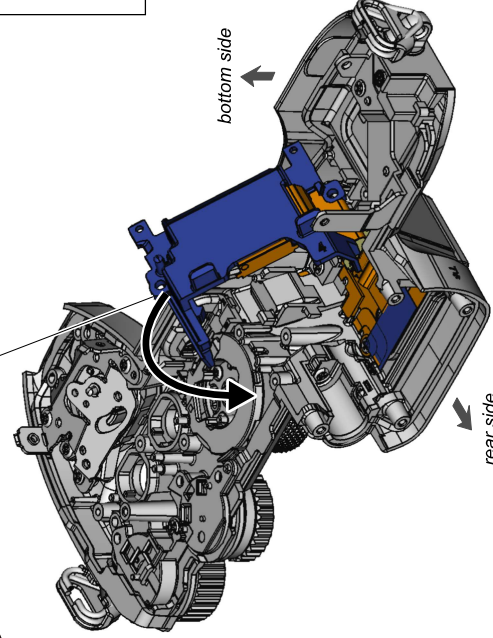


7 tape (637S #25) 7mm x 50 mm BLK

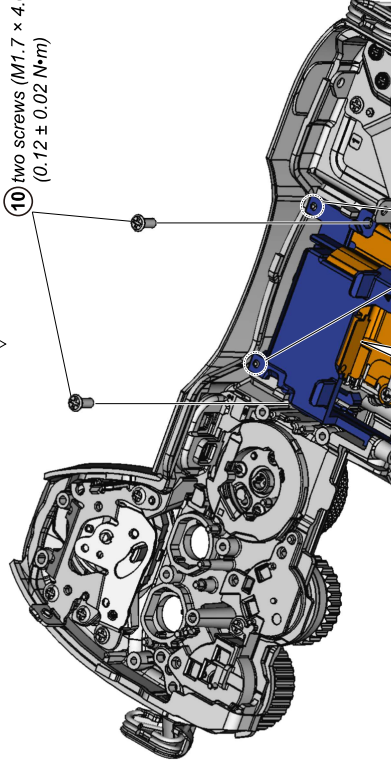
Note: Cut it to 15 mm (± 1.5 mm)
before use.

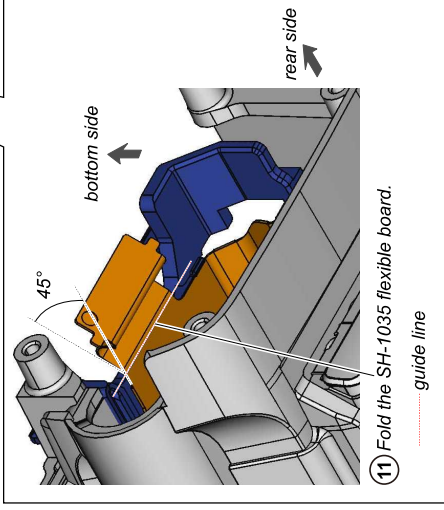
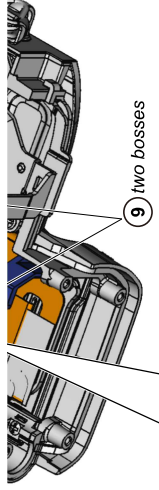
..... guide line

8 Install the EVF protector block in the direction of the arrow.

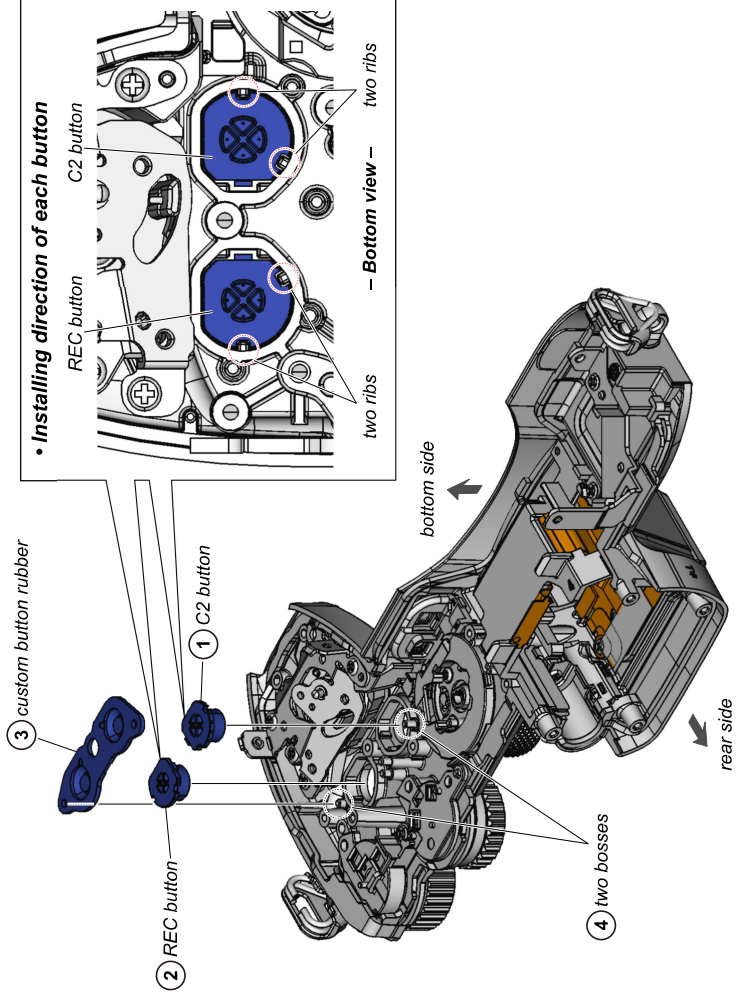


10 two screws (M1.7 x 4.0)
(0.12 ± 0.02 N•m)

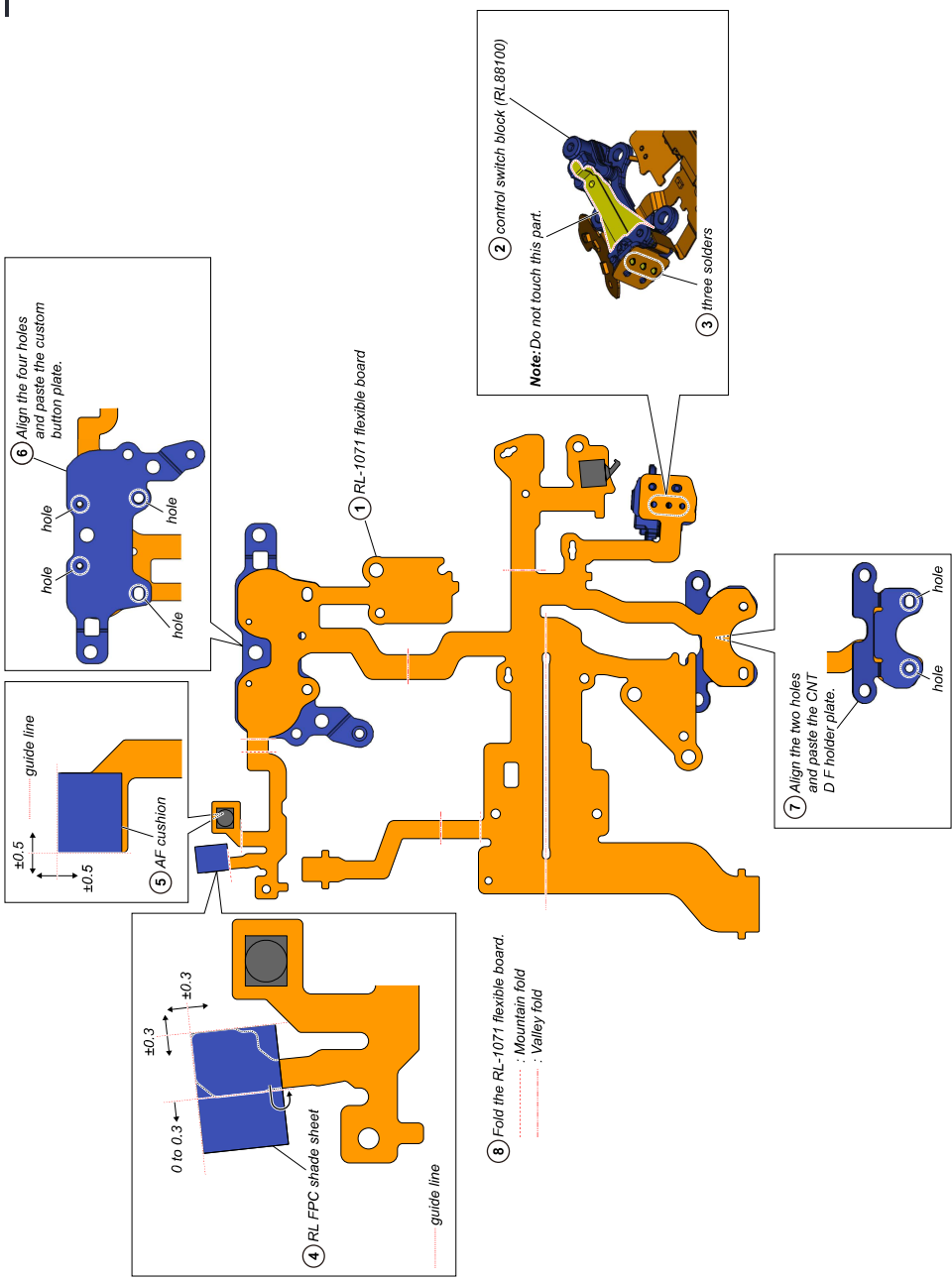




21. C2/REC BUTTON

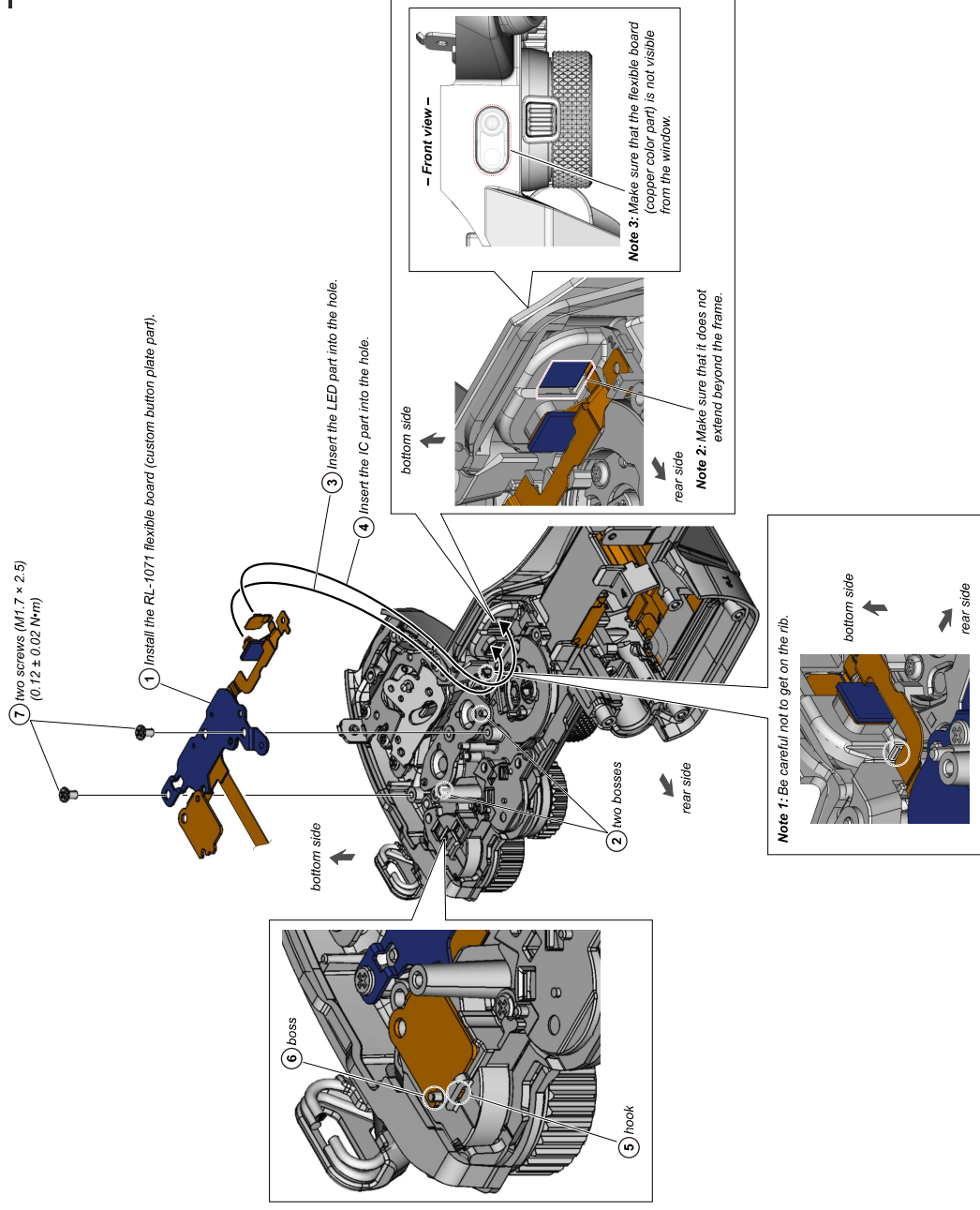


22. CUSTOM BUTTON PLATE, CNT D F HOLDER PLATE

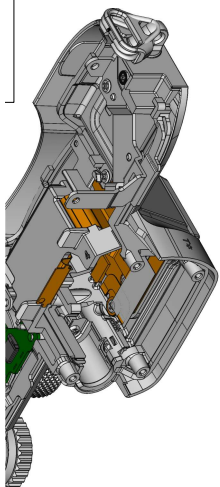




24. RL-1071 FLEXIBLE BOARD (CUSTOM BUTTON PLATE PART)



I



26. RL-1071 FLEXIBLE BOARD (RL FPC BASE PART)

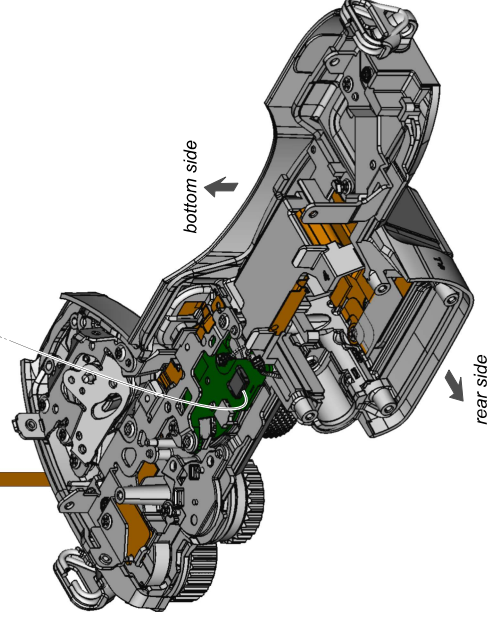
Note 1: Do not touch this part.

Note 2: Checking the stiffener of the flexible board is not floating or peeled off.

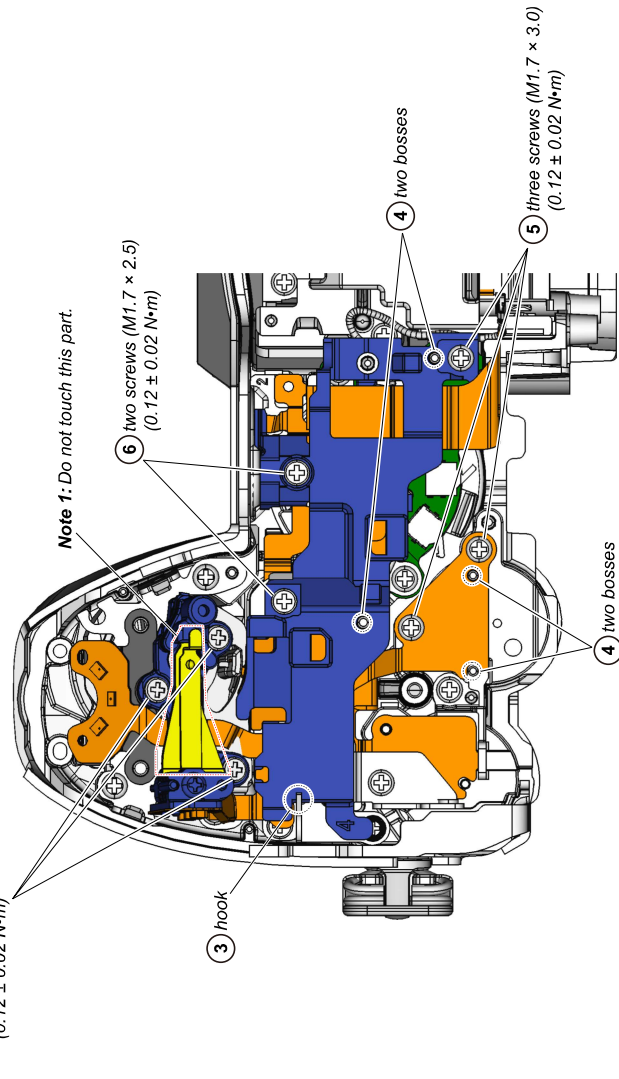


Note 3: Take care so that the flexible board is not pinched.

1 Connect the RL-1071 flexible board.

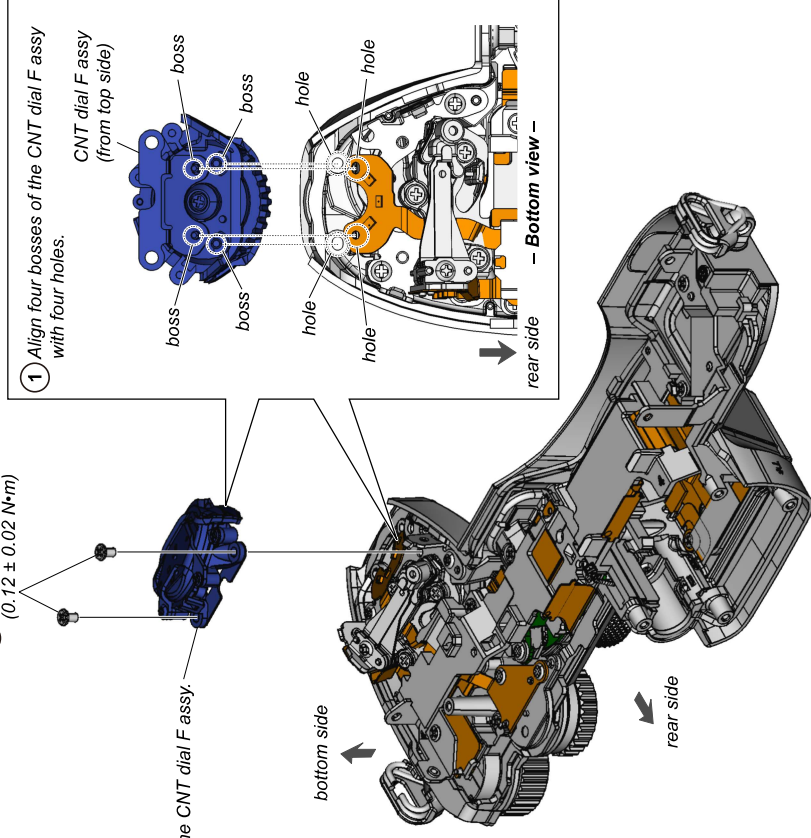


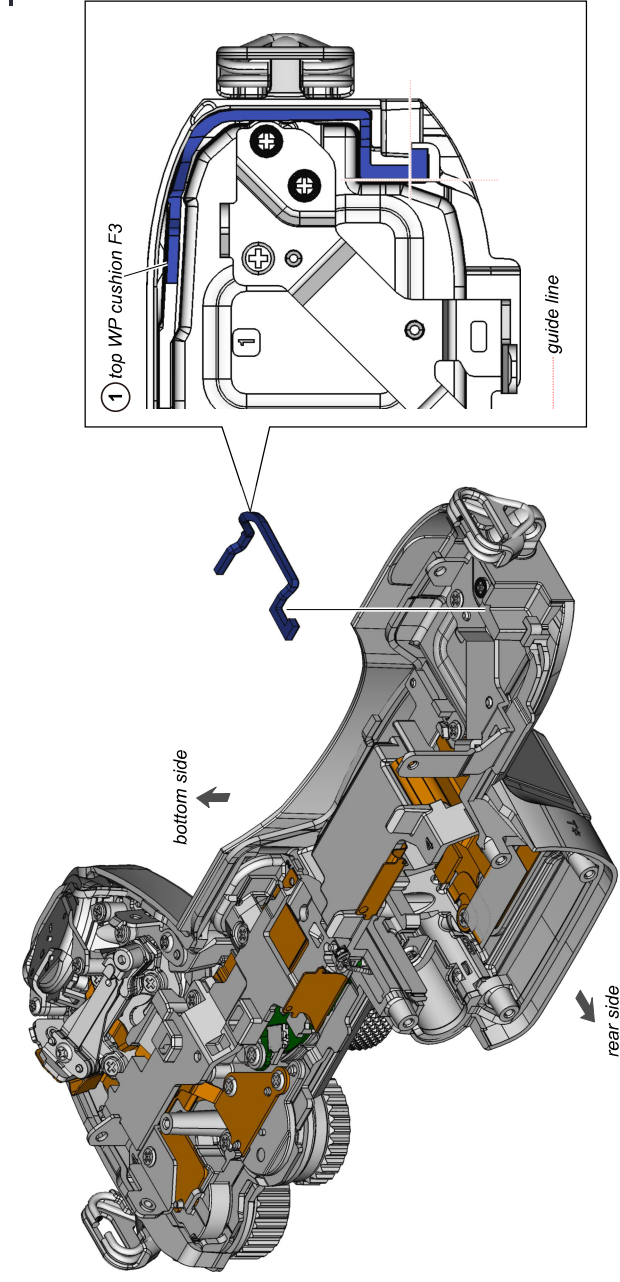
7 three screws (M1.7 × 2.5)
(0.12 ± 0.02 N·m)



- ③ two screws (M1.7 x 2.5)
(0.12 ± 0.02 N•m)

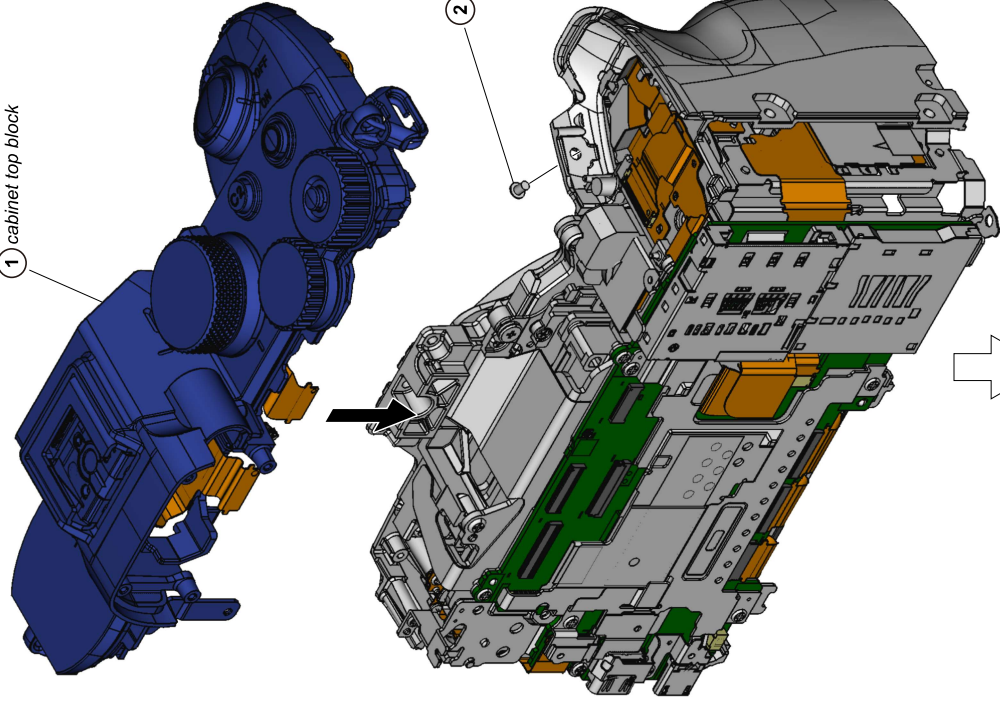
- ② Install the CNT dial F Assy.





1 cabinet top block

2 screws (M1.7 x 2.5)
(0.16 ± 0.02 N•m)

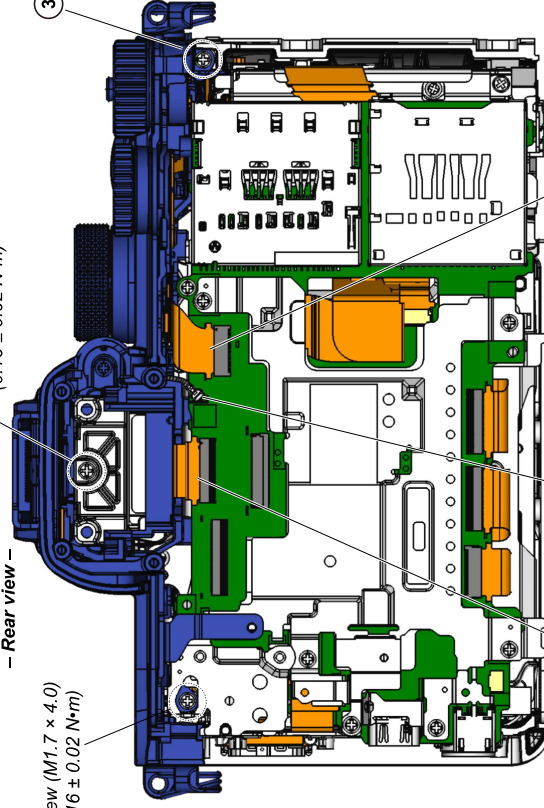


3 screw (M1.7 x 4.0)
(0.16 ± 0.02 N•m)

– Rear view –

3 screw (M1.7 x 4.0)
(0.16 ± 0.02 N•m)

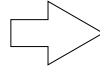
3 screw (M1.7 x 4.0)
(0.16 ± 0.02 N•m)

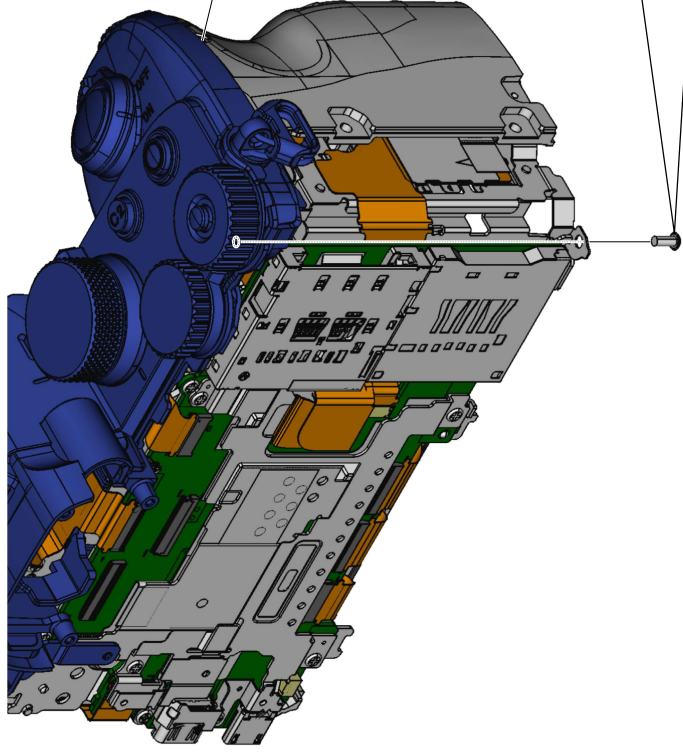


5 SH-1035 flexible board

4 coaxial cable (45 mm)

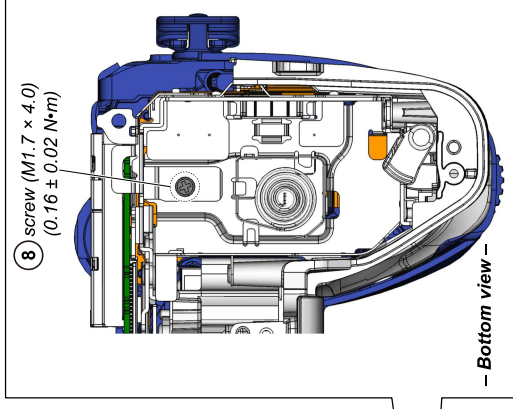
6 RL-1071 flexible board





7 screws (M1.7 × 2.5)
(0.16 ± 0.02 N·m)

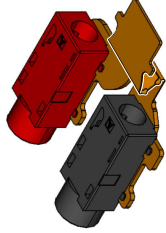
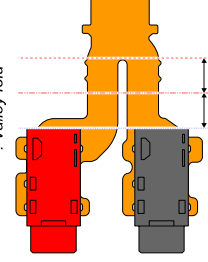
8 screw (M1.7 × 4.0)
(0.16 ± 0.02 N·m)



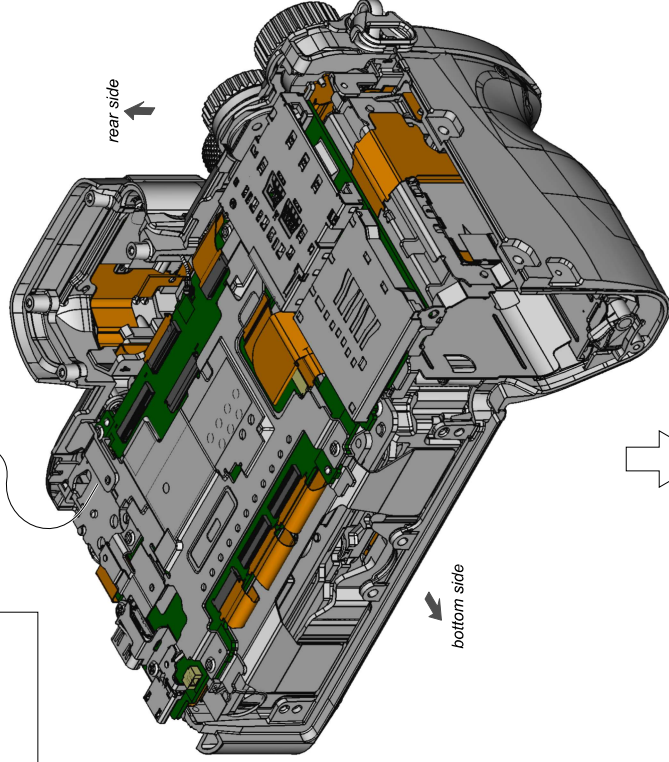
– Bottom view –



- ① Fold the JK-1028 flexible board.
: Mountain fold
: Valley fold



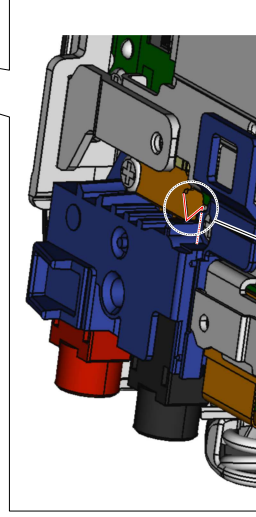
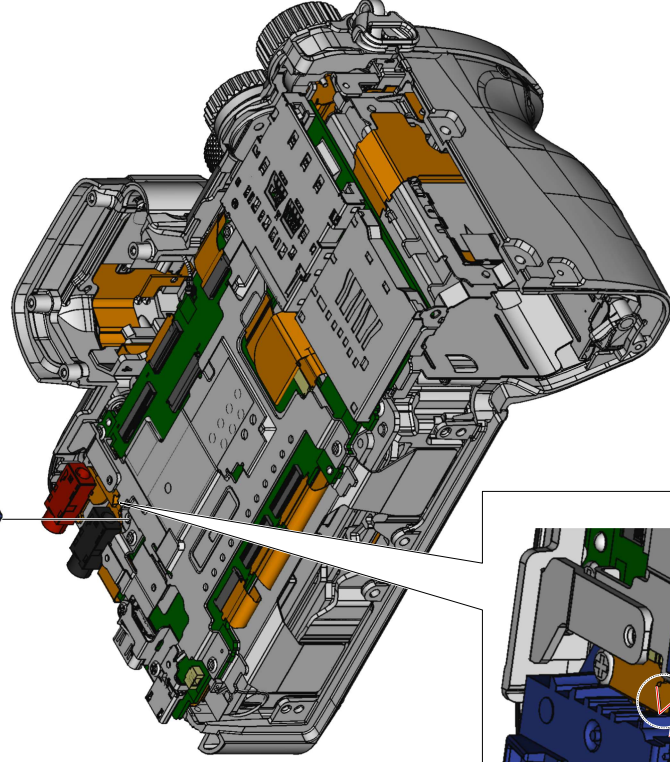
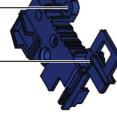
- ② Connect the JK-1028 flexible board.

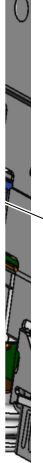


- ④ two screws (M1.7 x 3.0)
(0.12 ± 0.02 N·m)



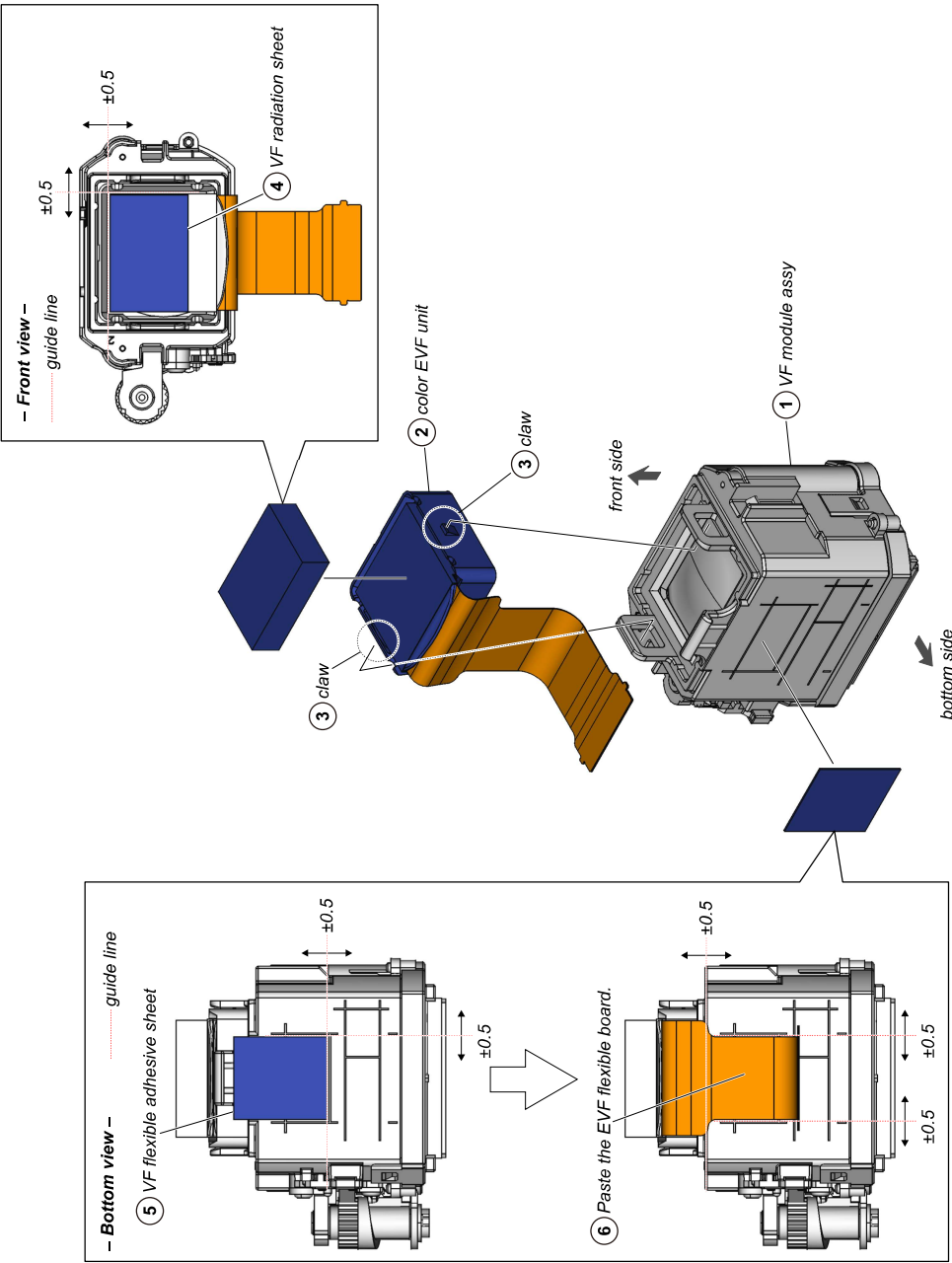
- ③ JK holder

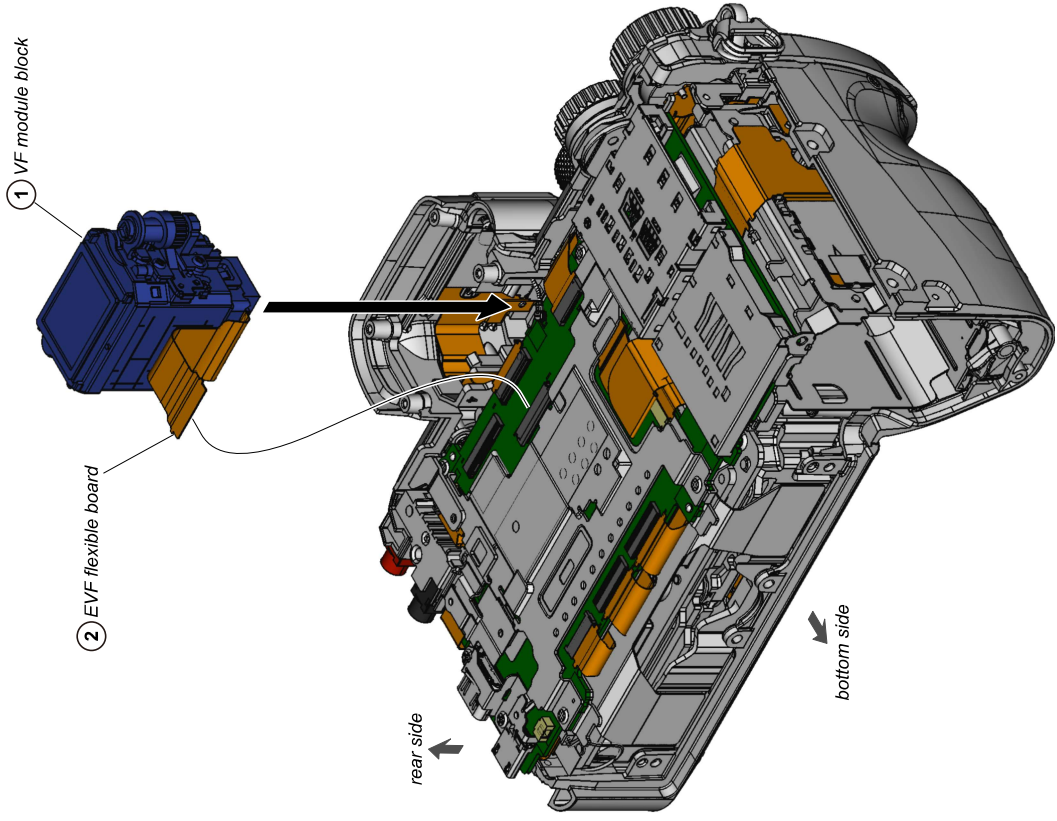


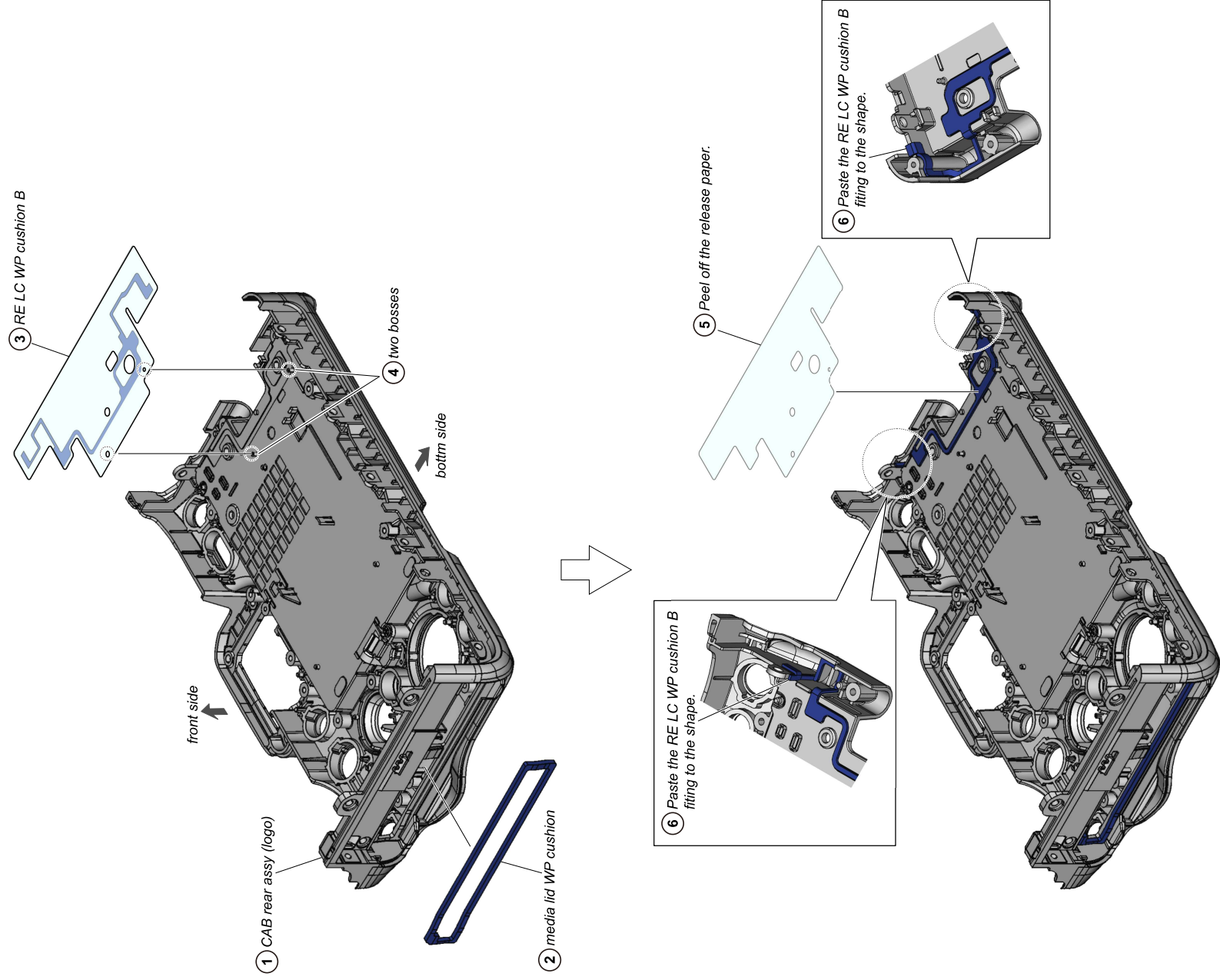


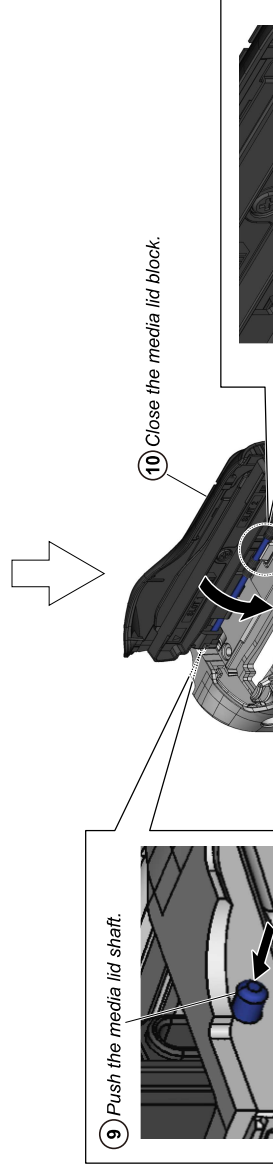
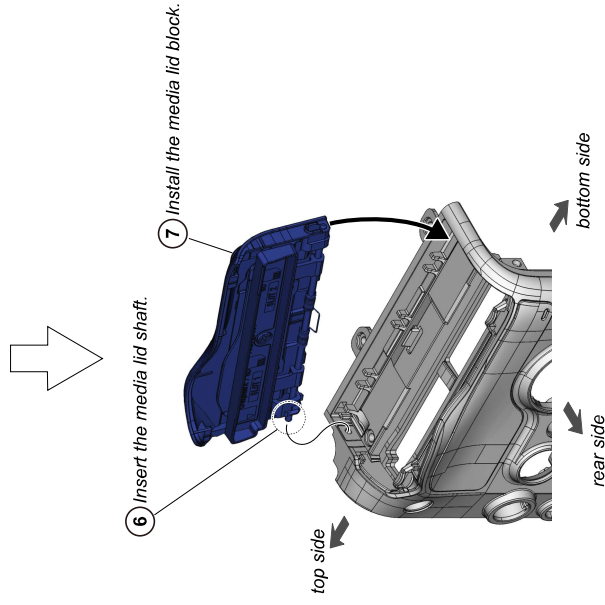
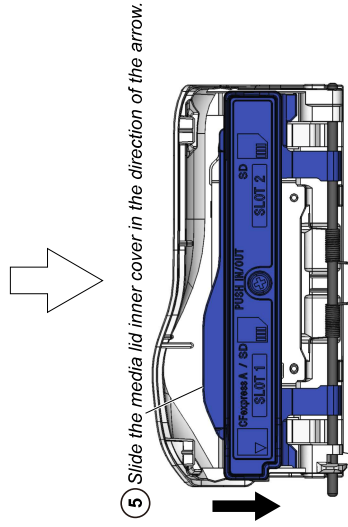
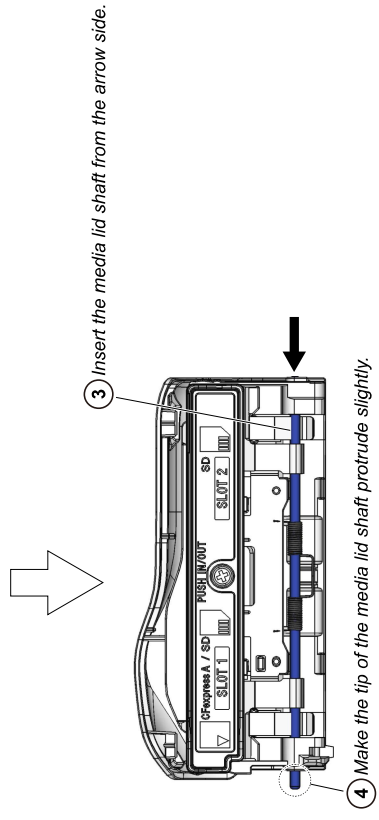
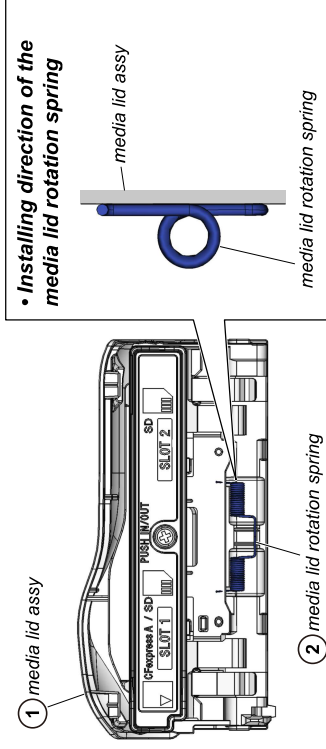
Note: Take care so that the flexible board is not pinched.

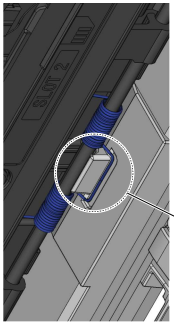
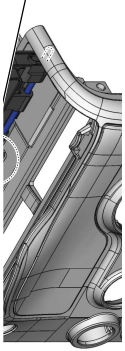
31. COLOR EVF UNIT





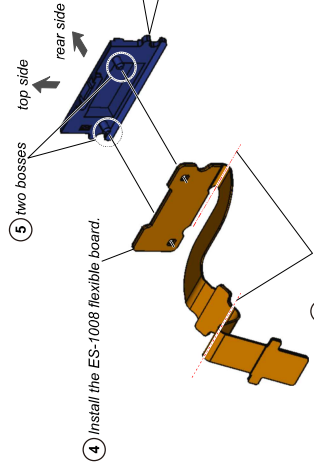
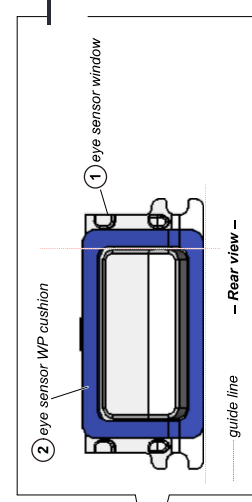




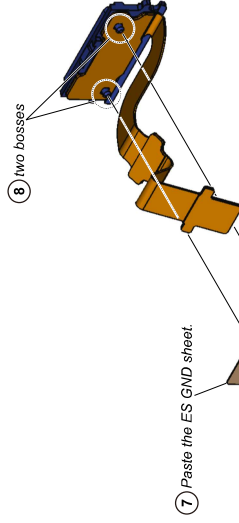


⑧ Hook the media lid rotation spring.

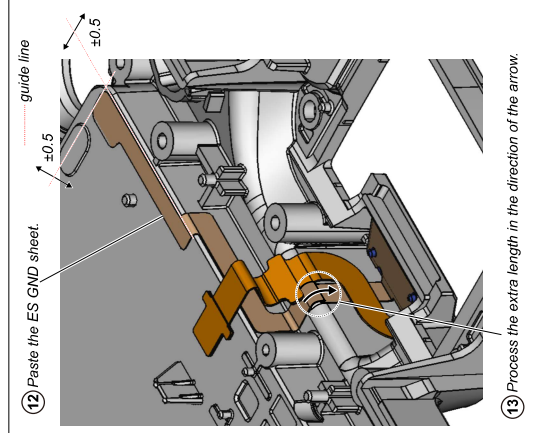
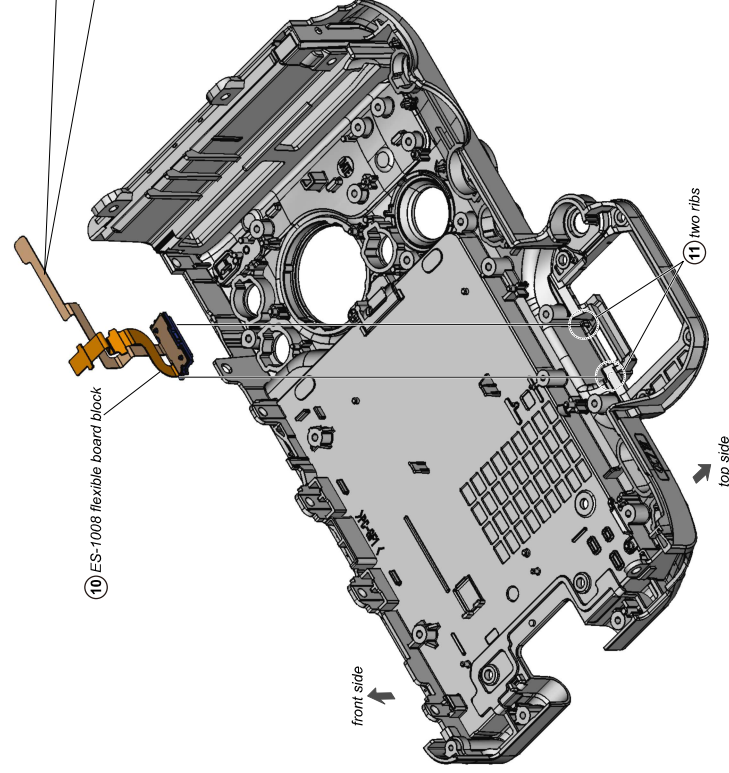
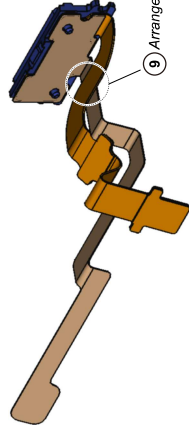




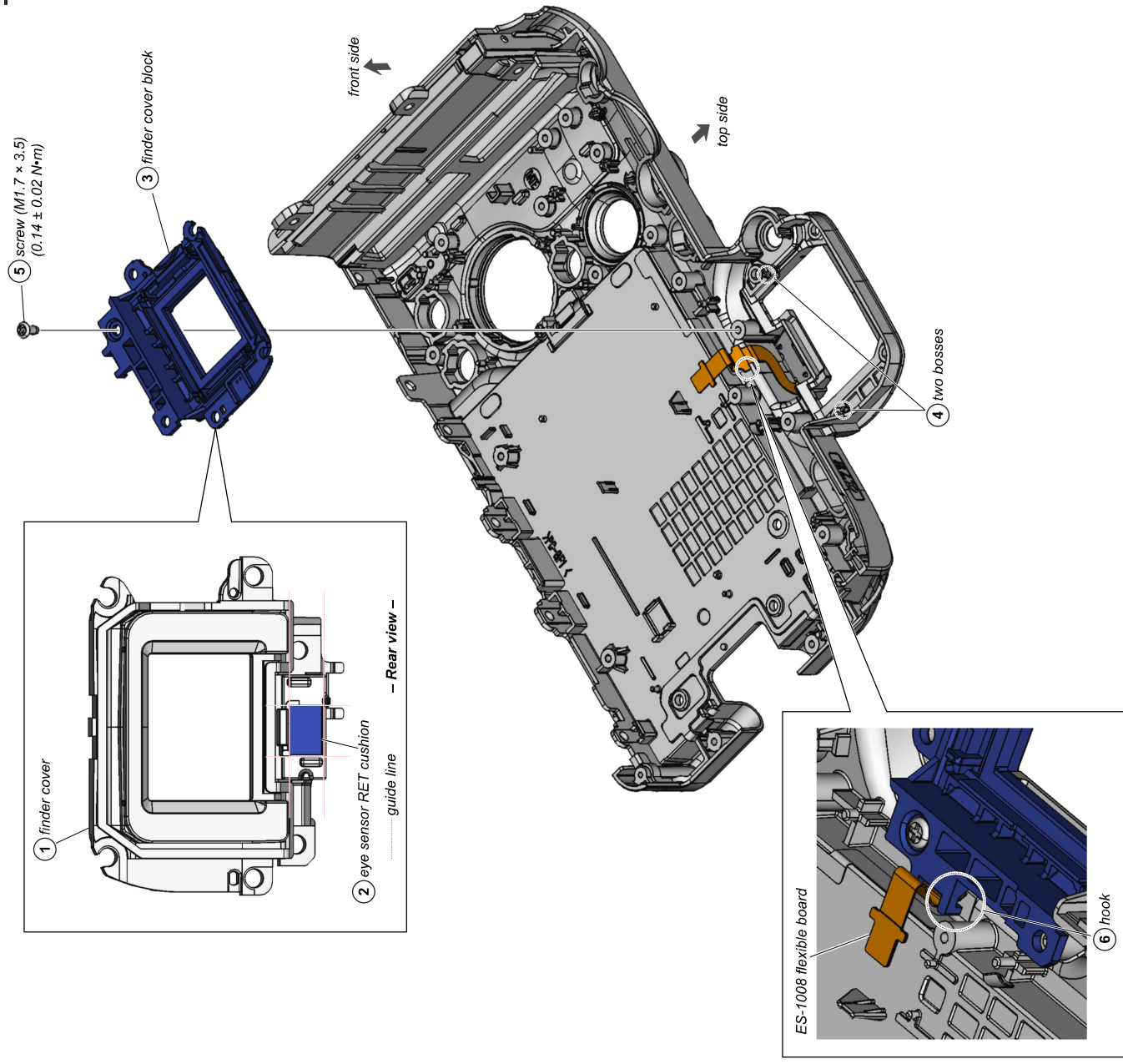
③ Fold the ES-1008 flexible board.
: Mountain fold
: Valley fold

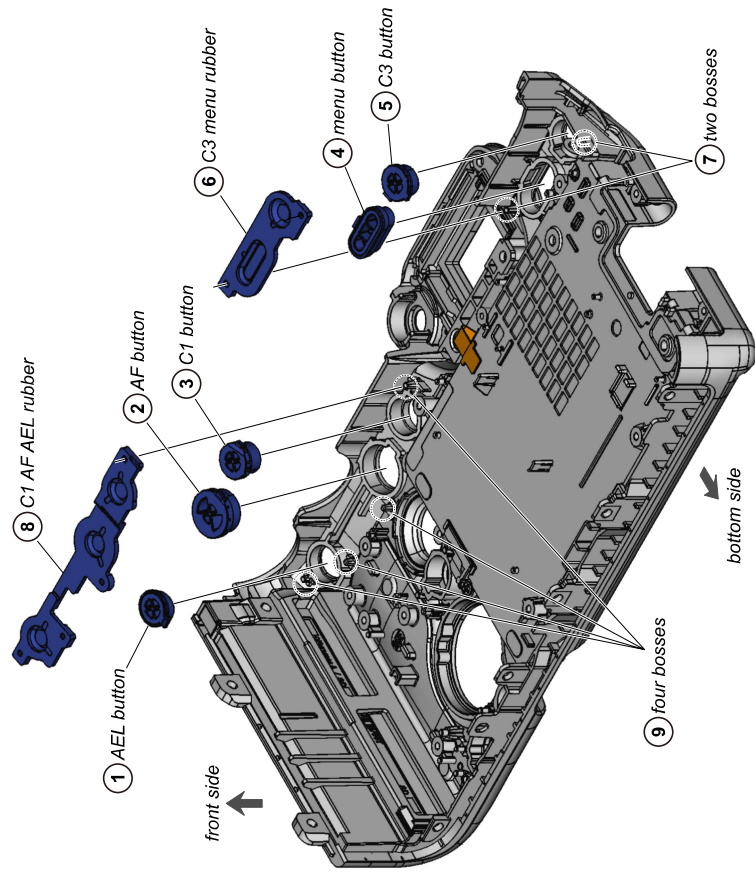


⑥ Fold the ES GND sheet.
: Mountain fold
: Valley fold

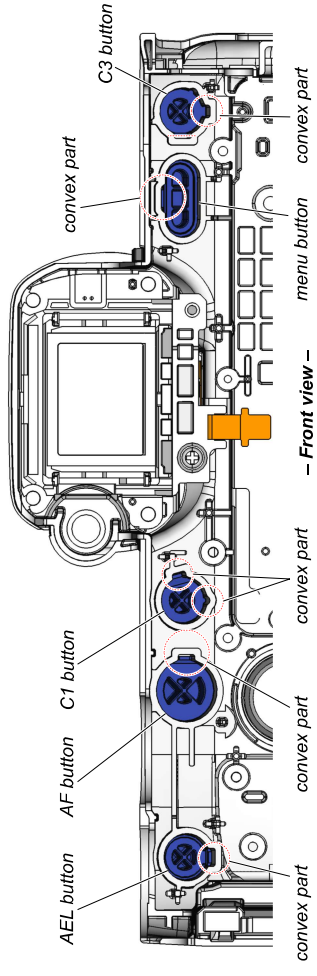


36. FINDER COVER



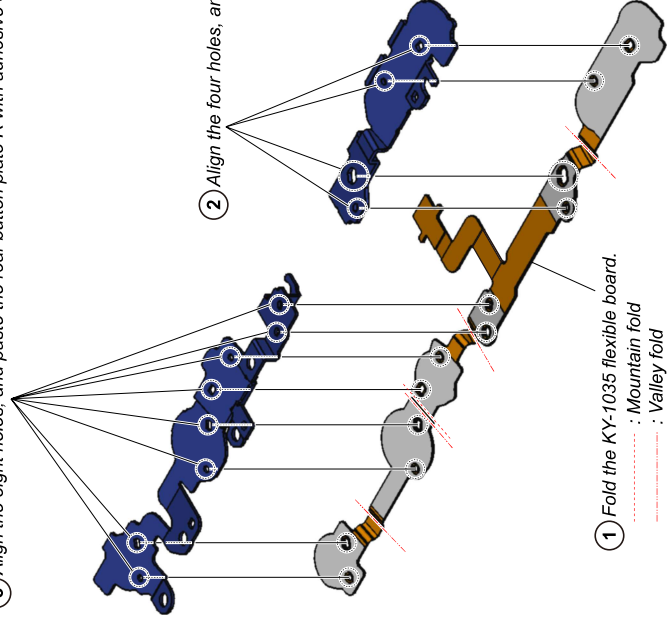


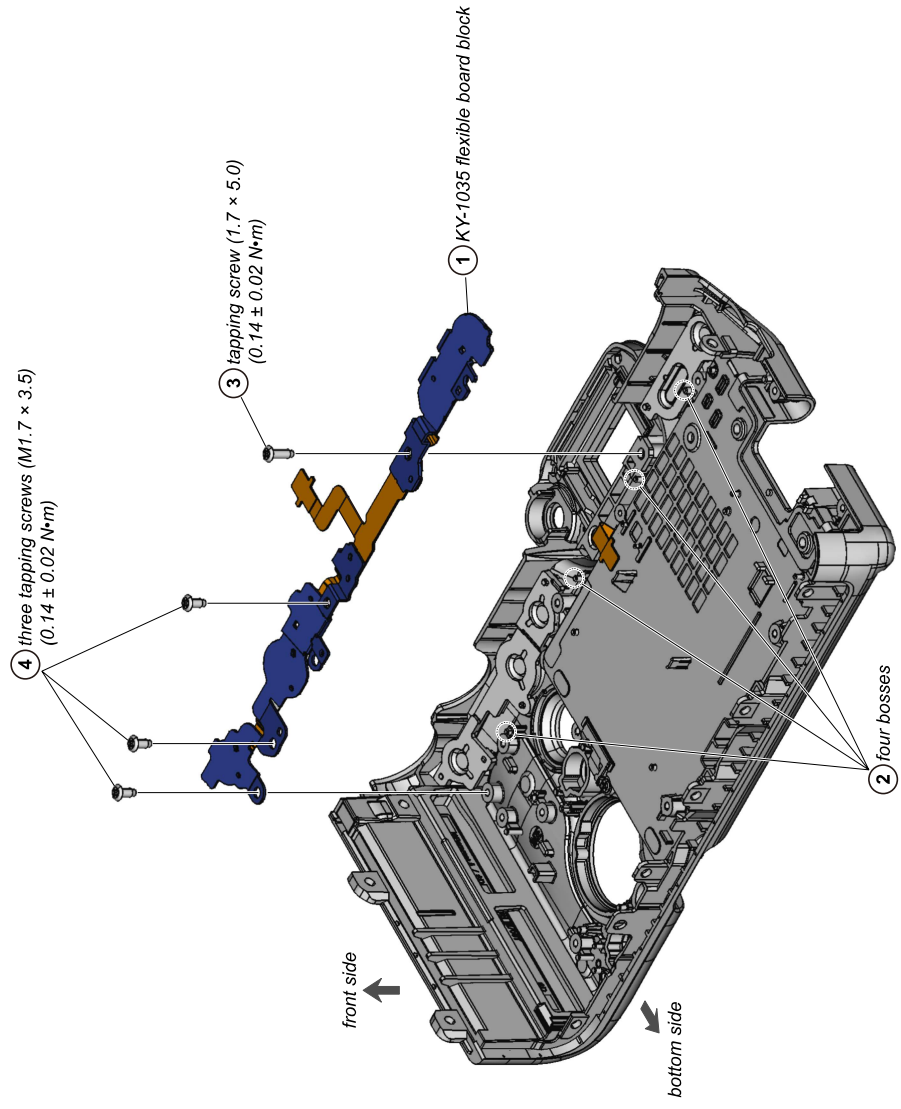
• Installing direction of each button



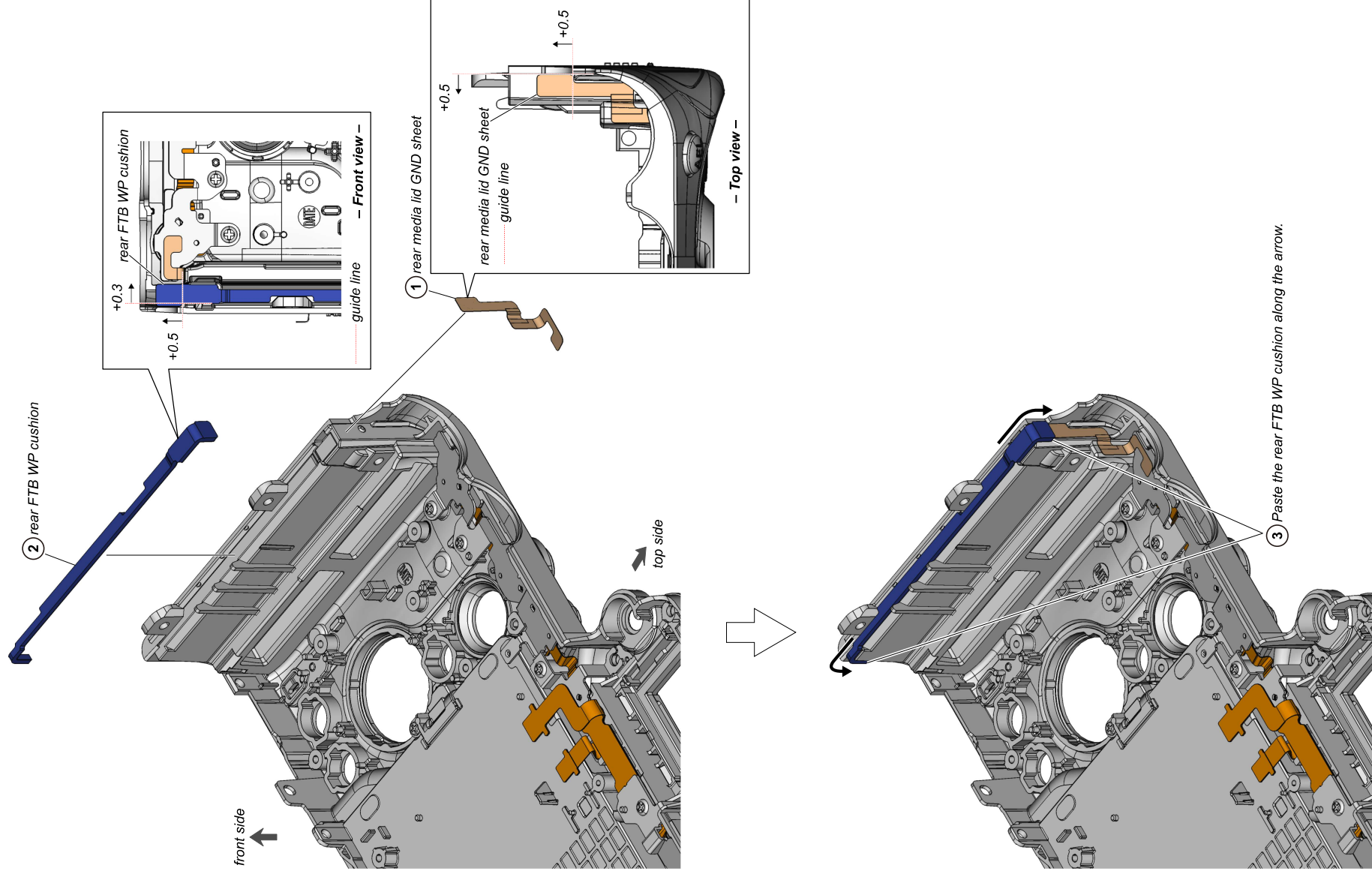
38. REAR BUTTON PLATE L/R

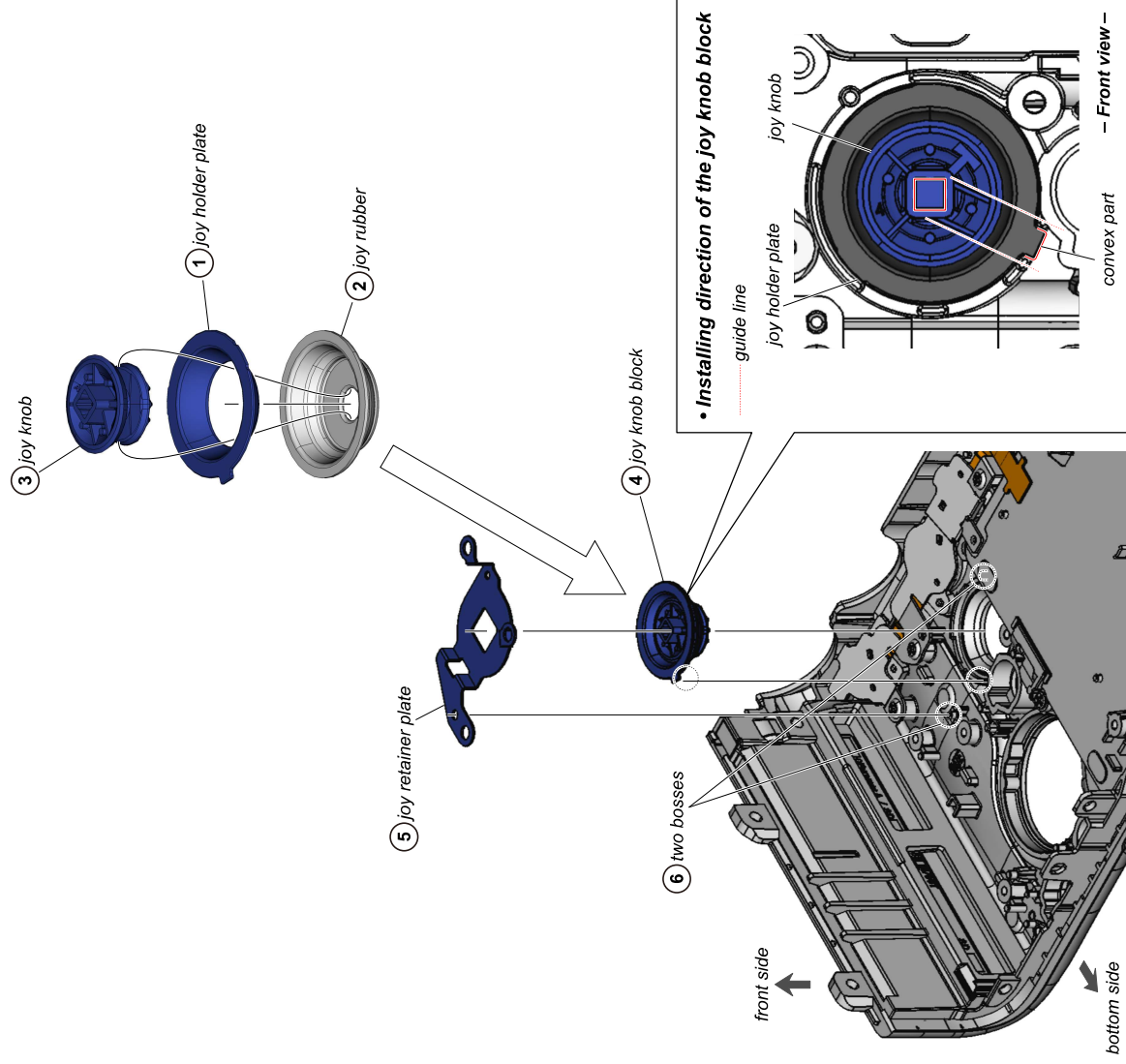
③ Align the eight holes, and paste the rear button plate R with adhesive sheet.



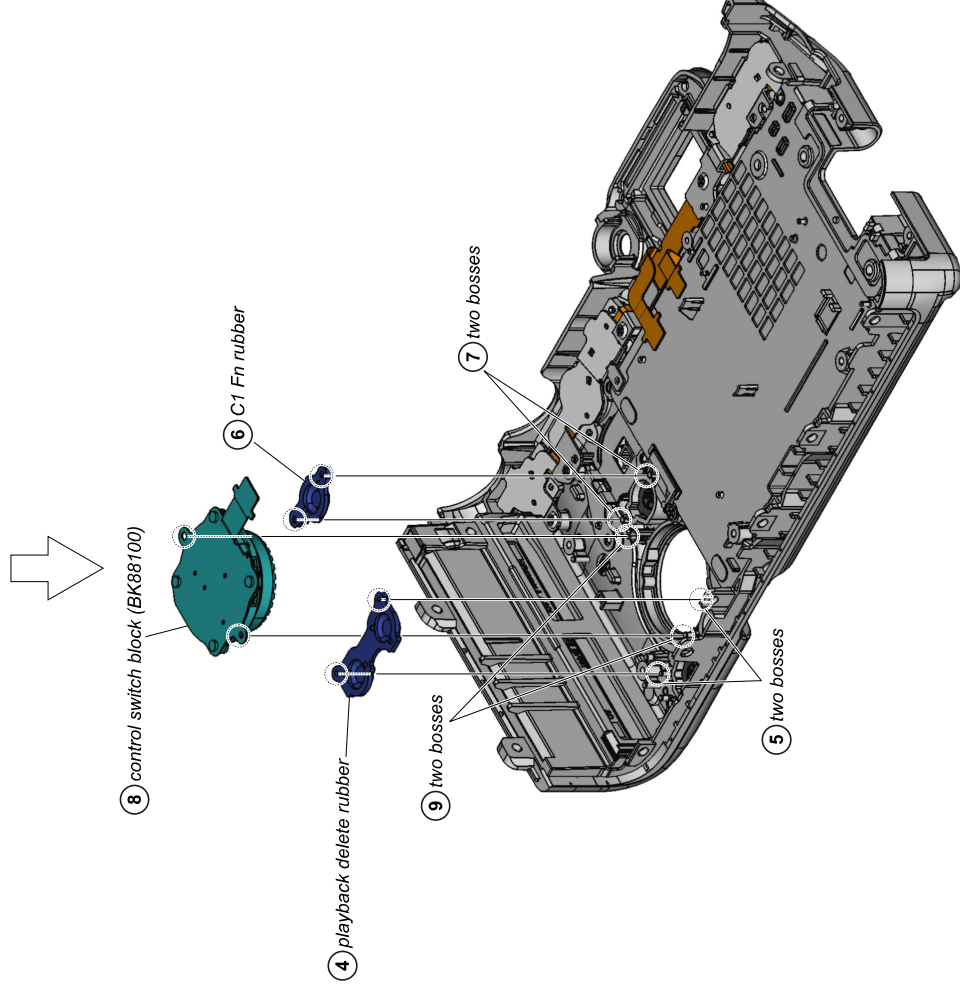
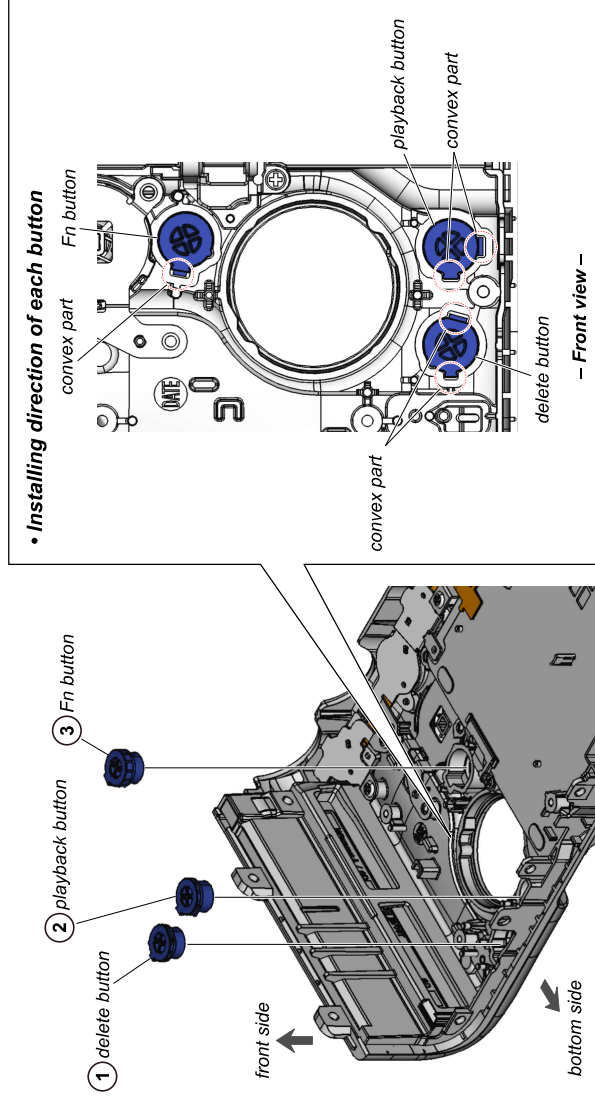


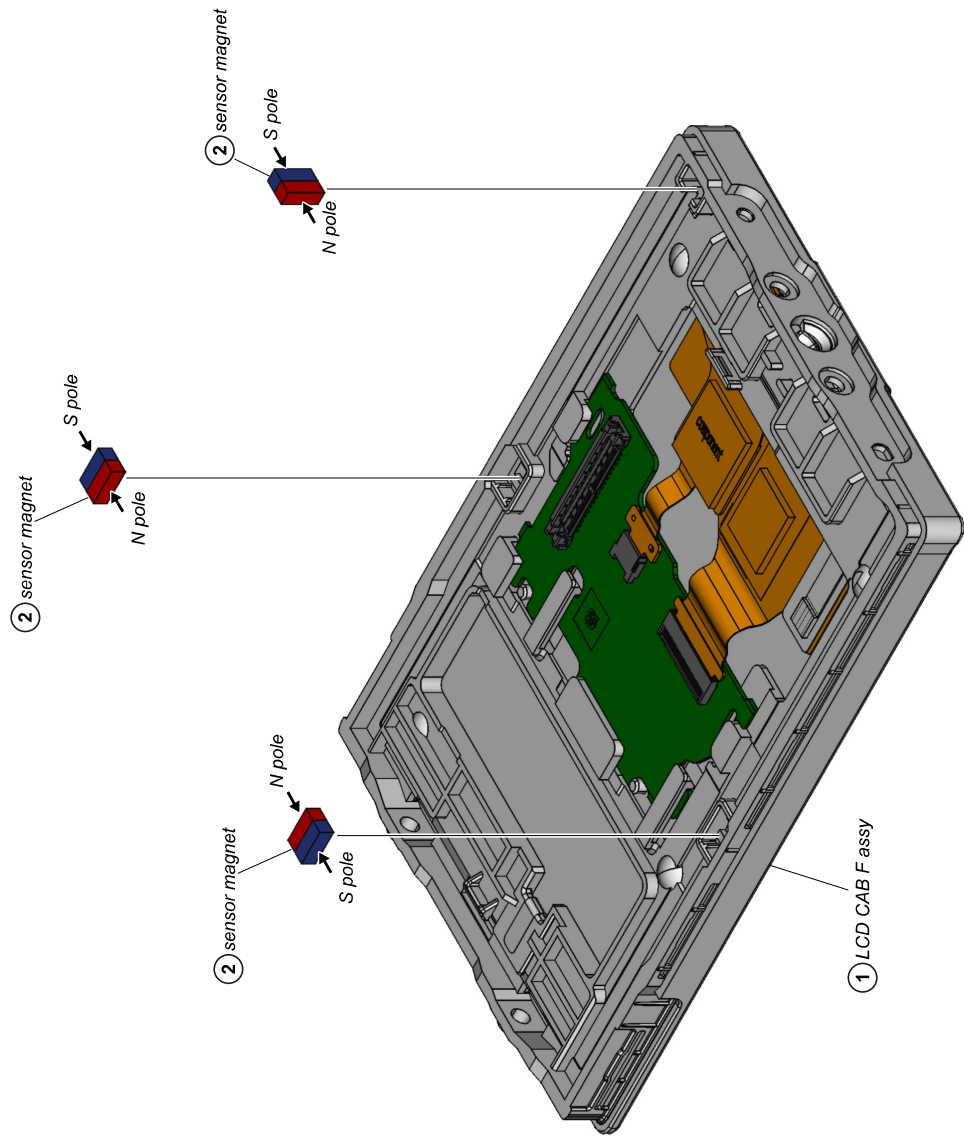
40. REAR MEDIA LID GND SHEET, REAR FTB WP CUSHION

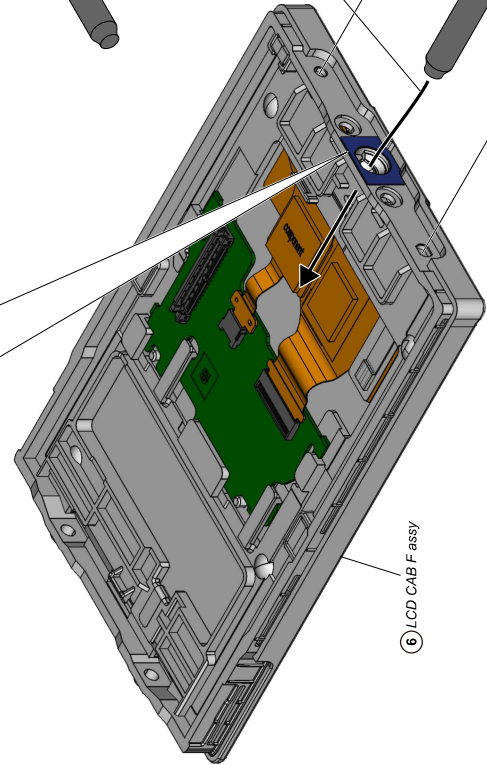
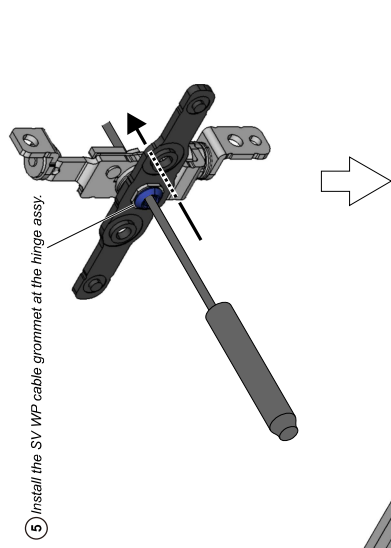
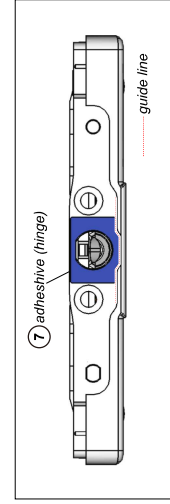
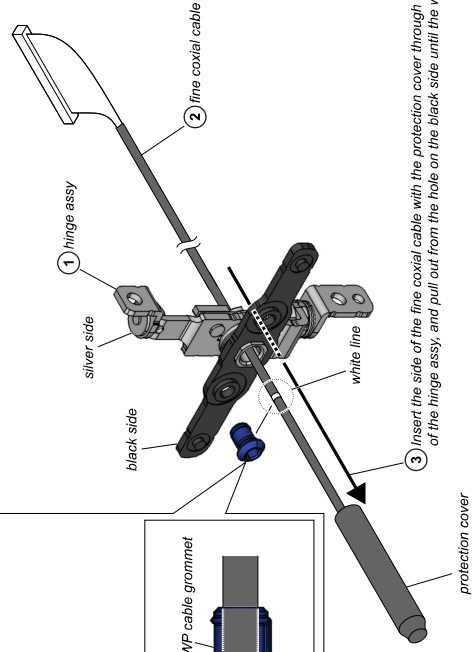
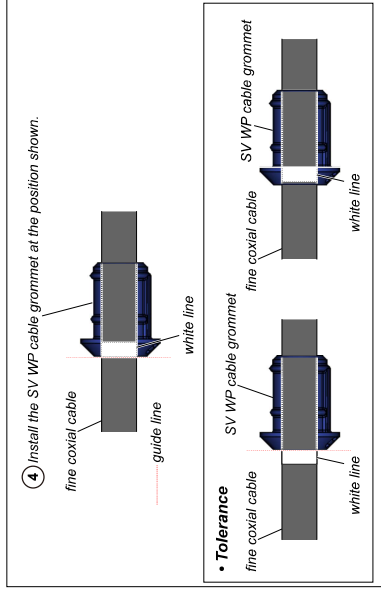




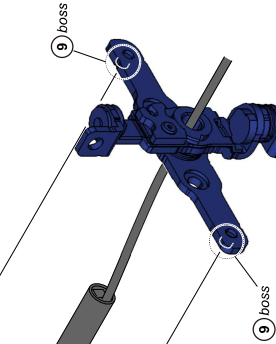
42. CONTROL SWITCH BLOCK (BK88100)



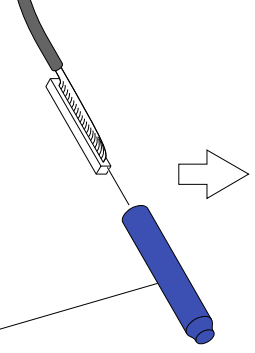




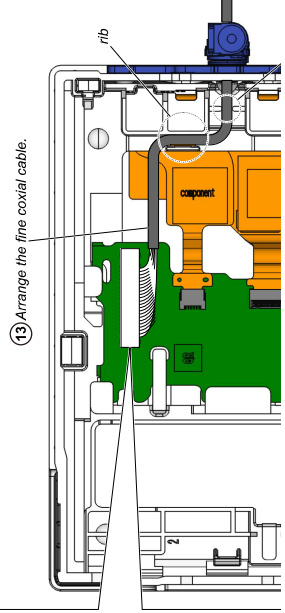
⑧ Insert the side of the fine coaxial cable with the protection cover through the hole on the LCD CAB F assy.

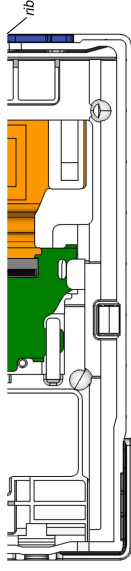
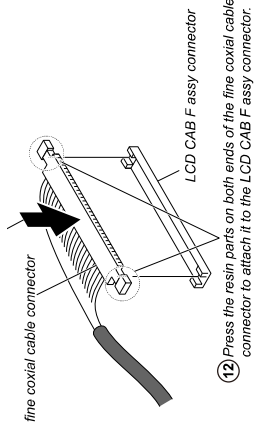


⑩ Remove the protection cover from the fine coaxial cable.
Note 1: When remove the protection cover, be careful not to damage the fine coaxial cable.
Note 2: When installing, be careful not to damage the fine coaxial cable.



⑪ Press the center of the fine coaxial cable connector to connect it to the LCD CAB F assy connector.

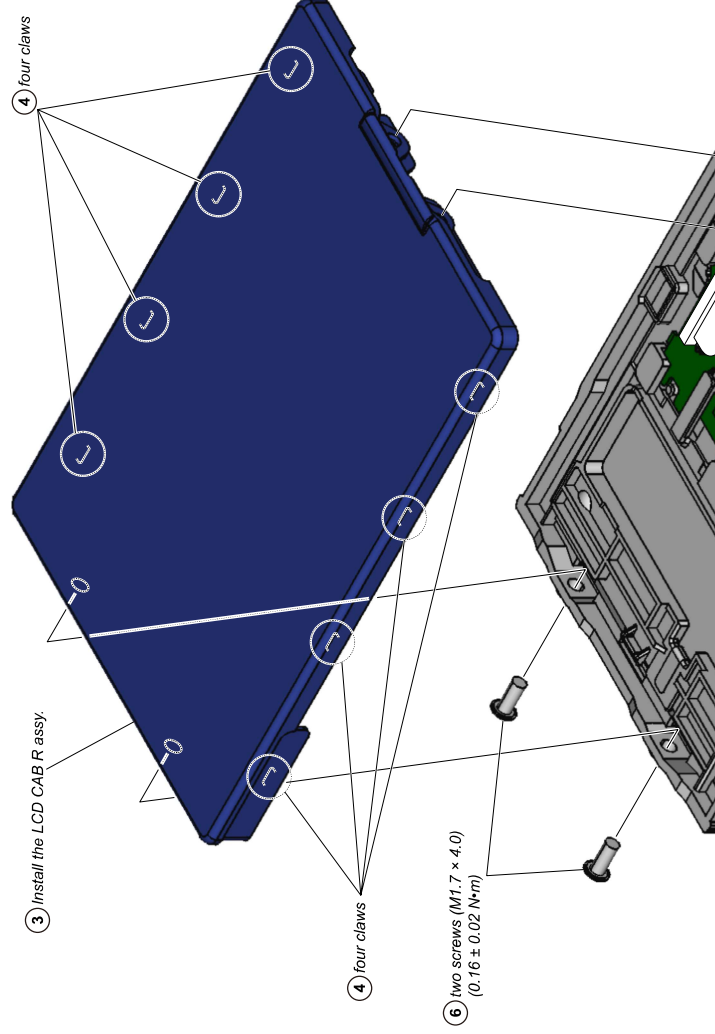
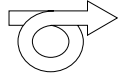
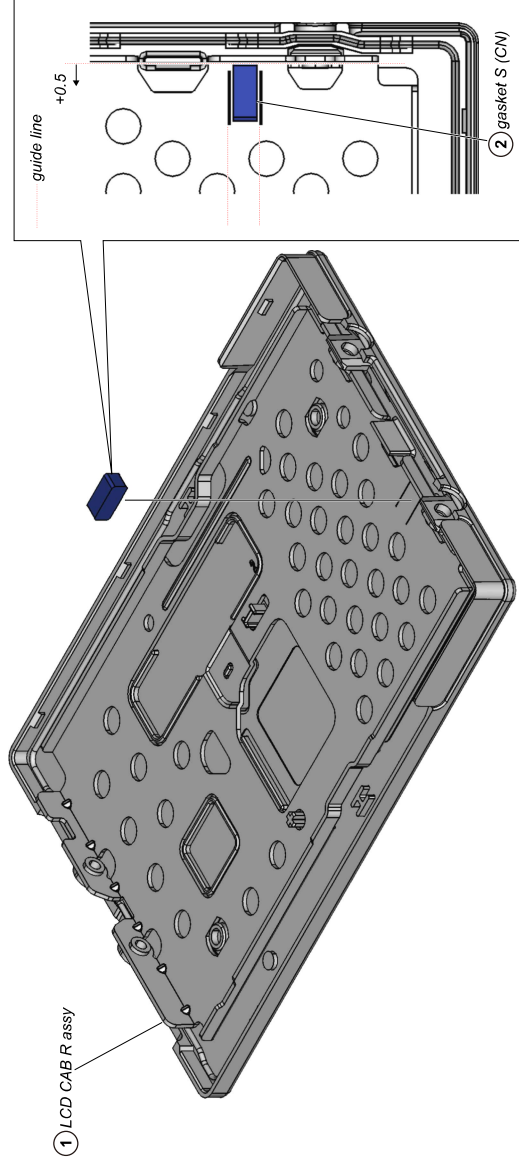
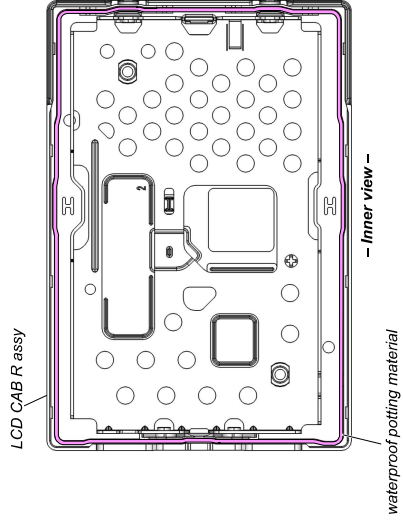


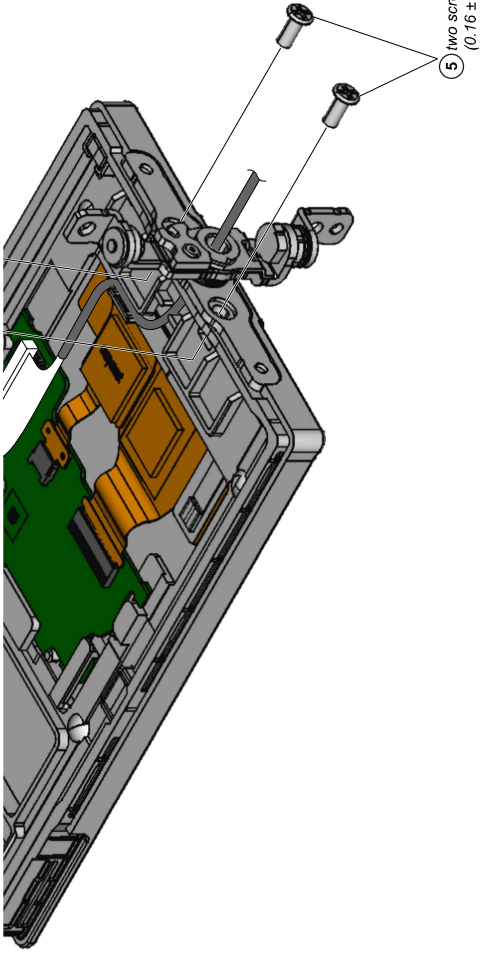


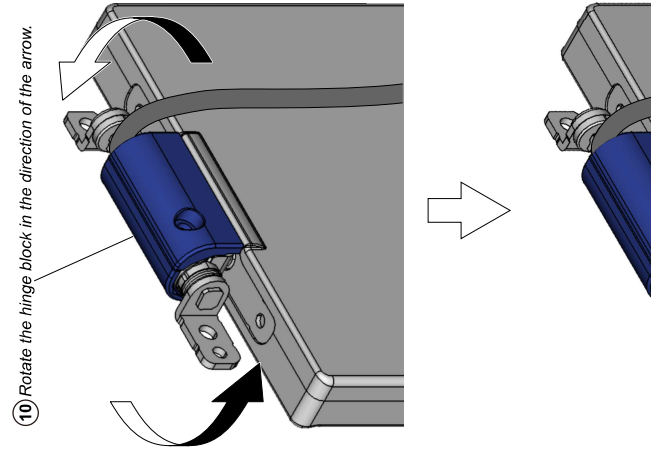
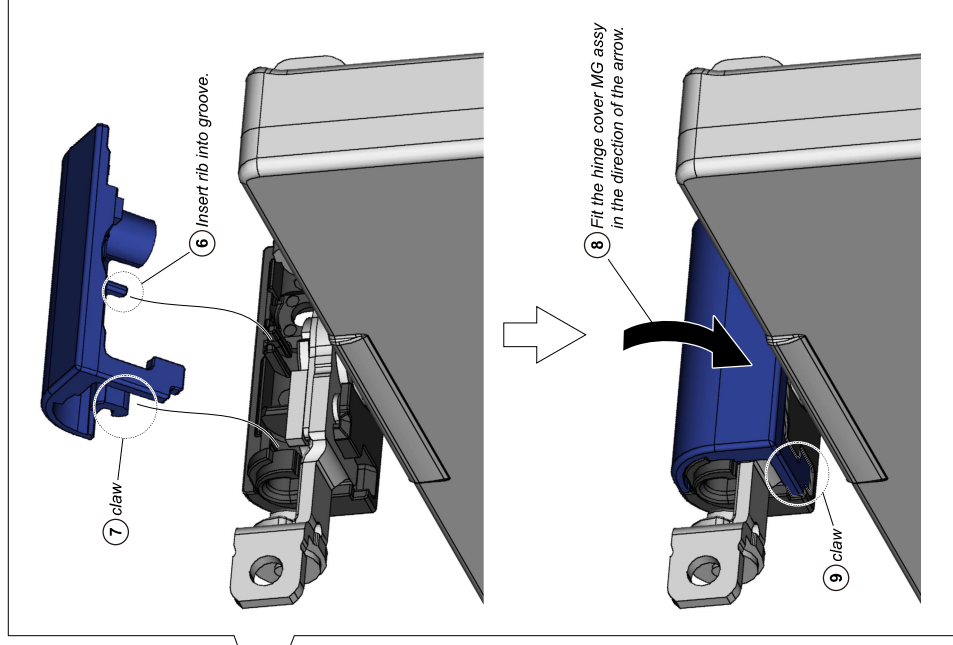
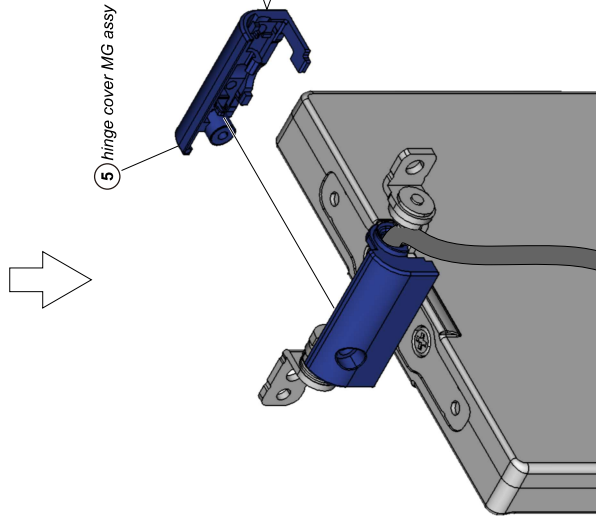
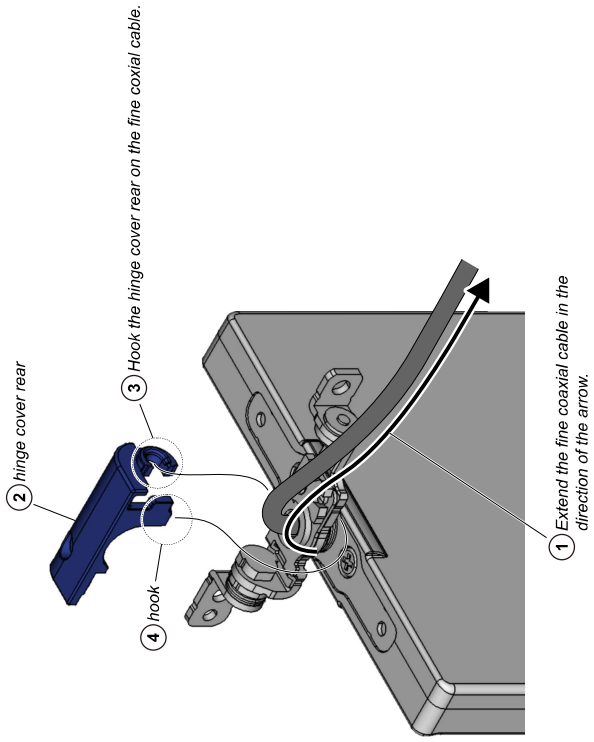


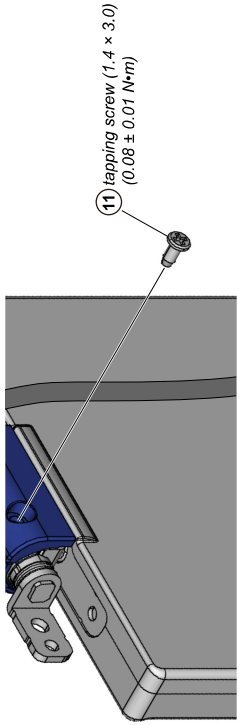
Note 1: Before installing the LCD CAB R Assy, check the condition of the waterproof potting material.
Refer to **"HANDLING WATERPROOF POTTED COMPONENTS"** on the SERVICE NOTE for details
on the state of the waterproof potting material.

Note 2: Do not touch or hit the waterproof potting material.

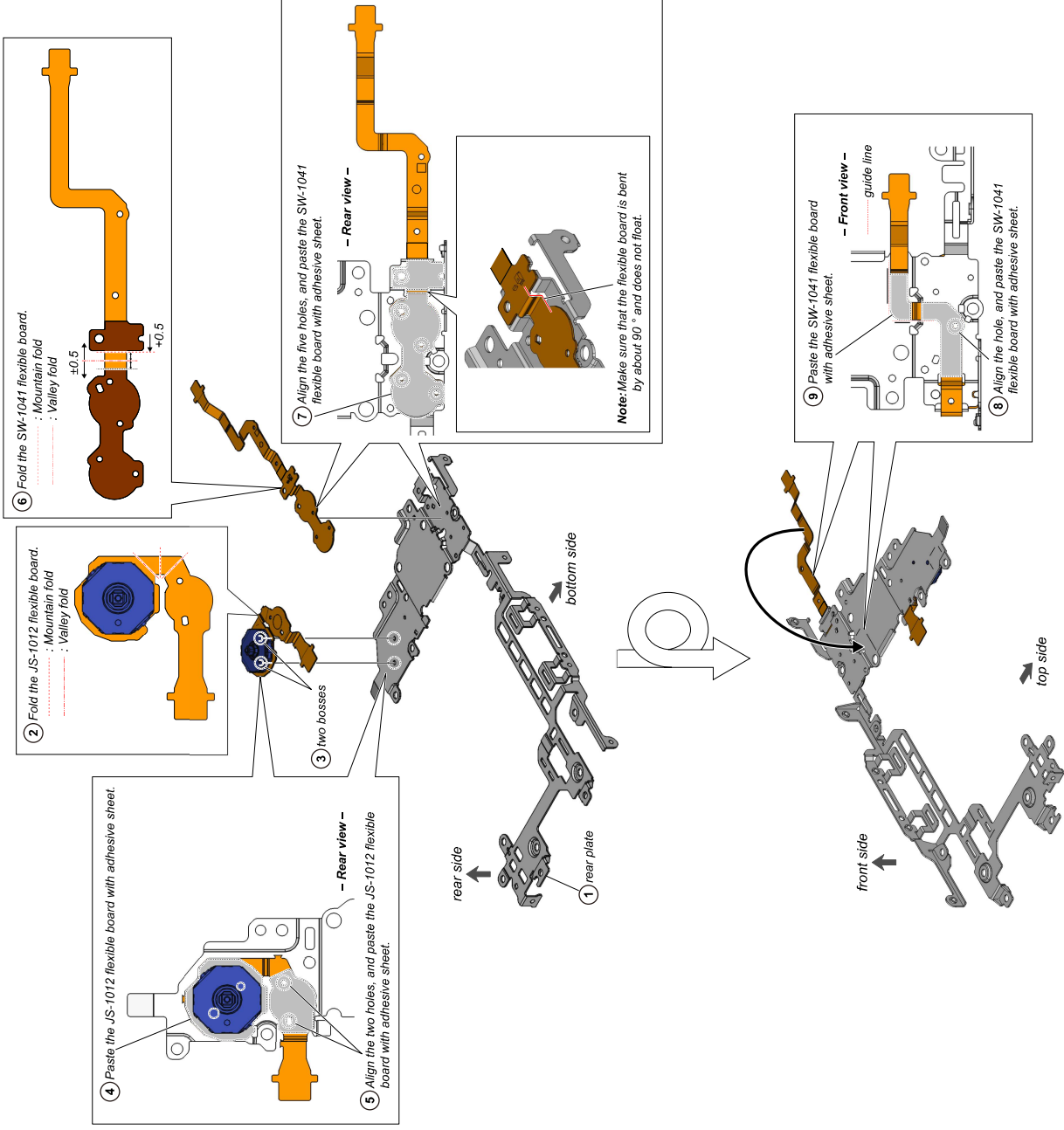


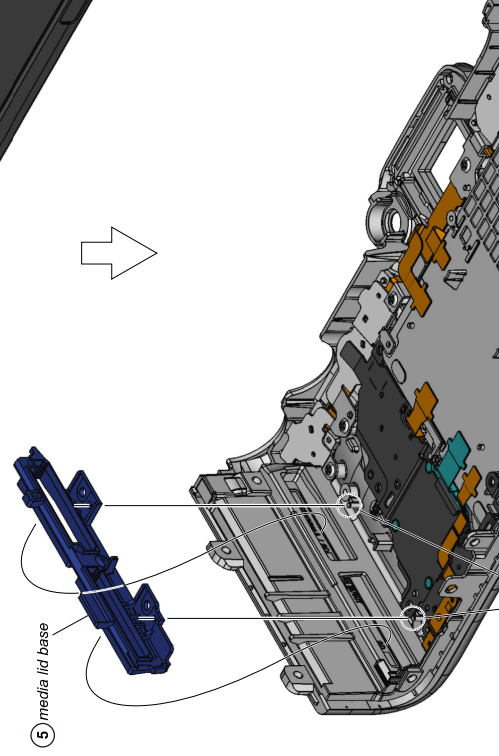
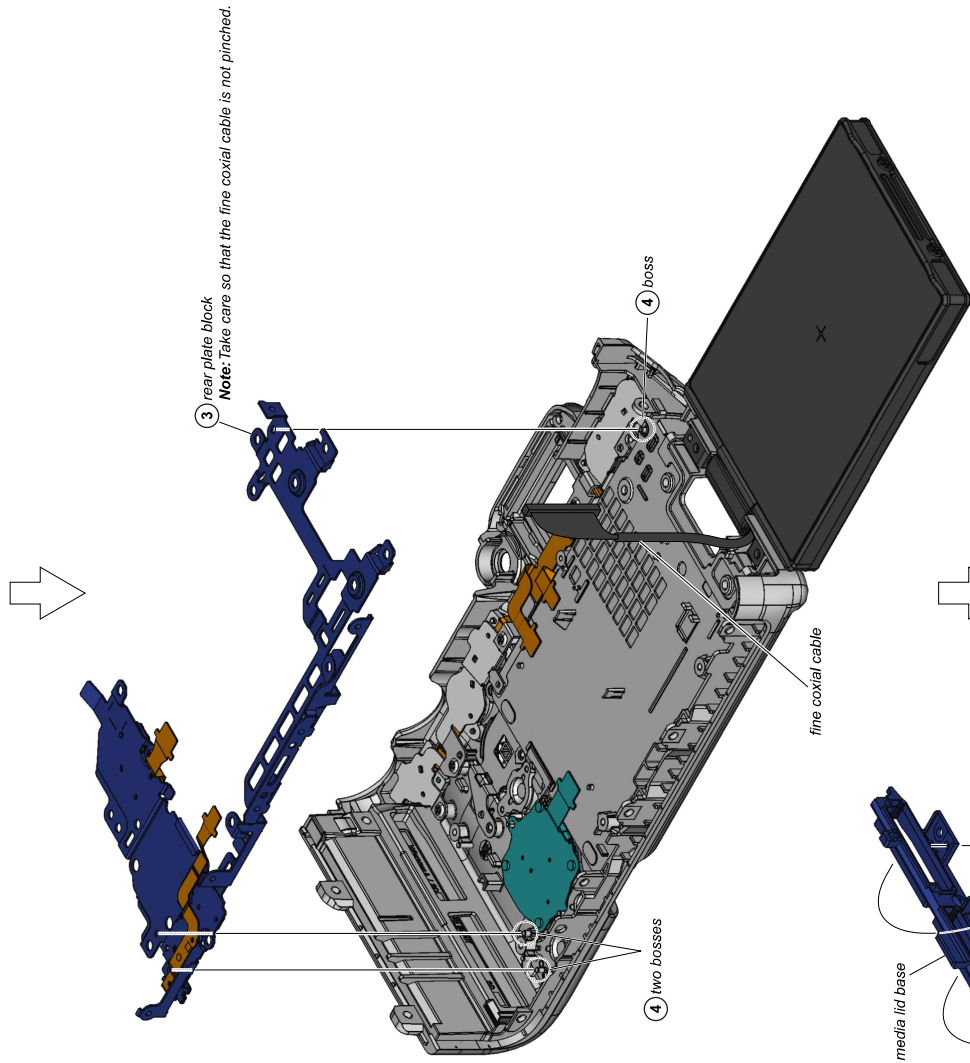
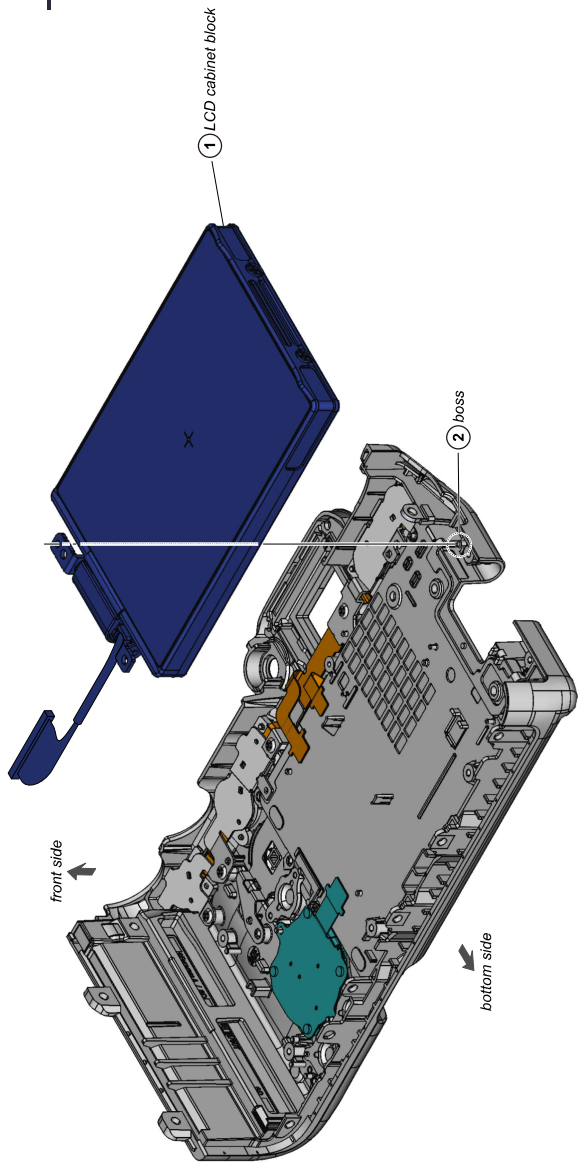


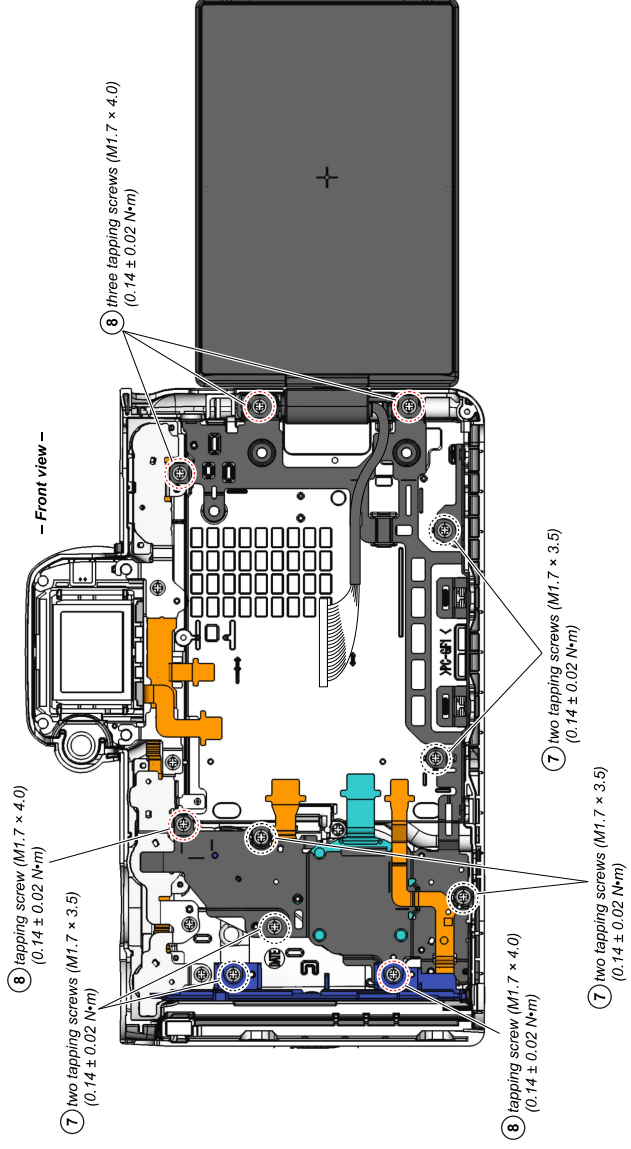
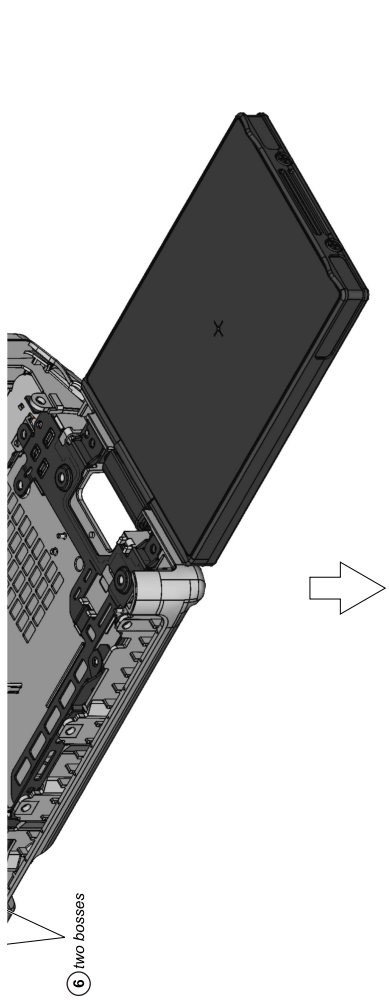




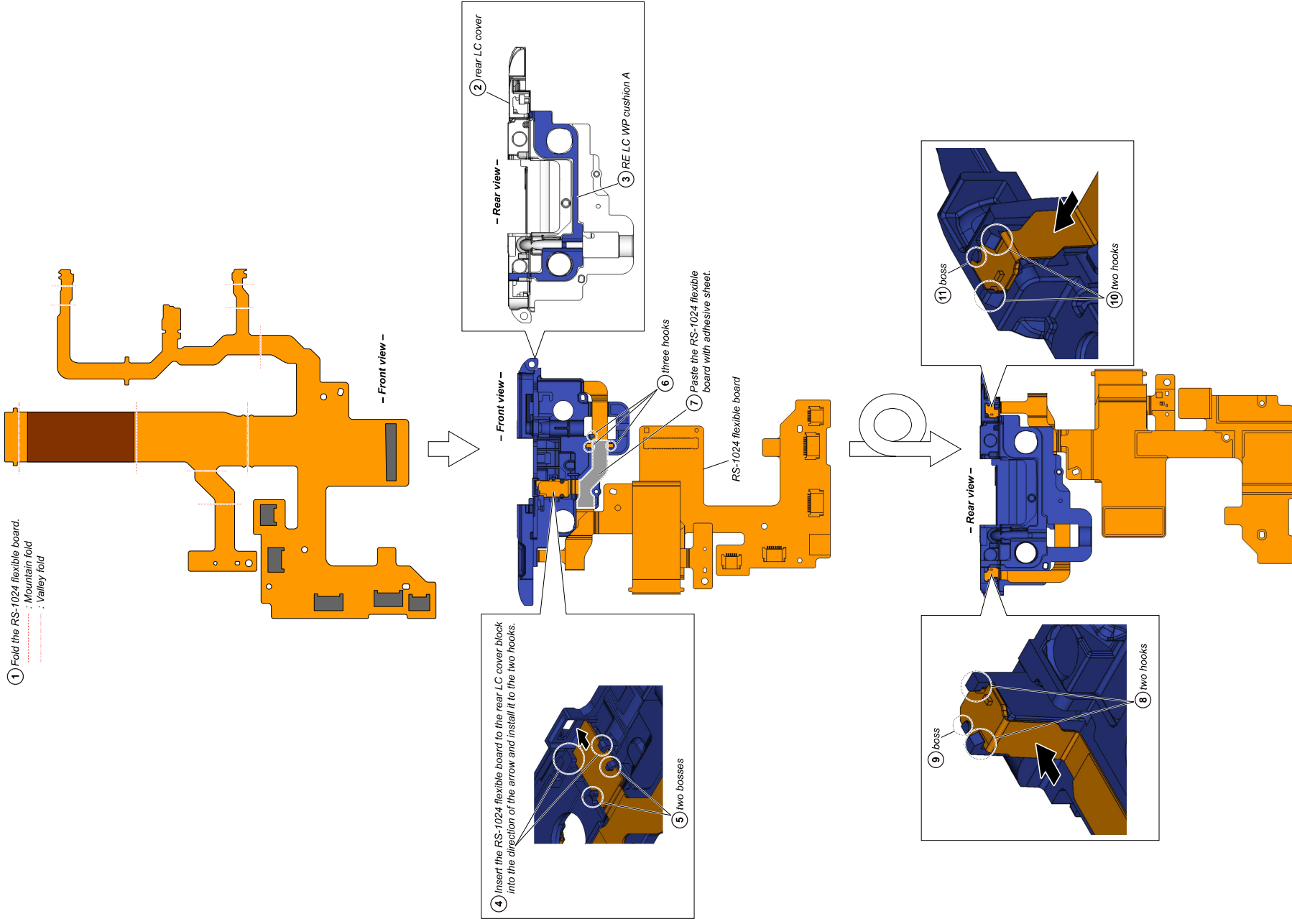
47. JS-1012 FLEXIBLE BOARD, SW-1041 FLEXIBLE BOARD

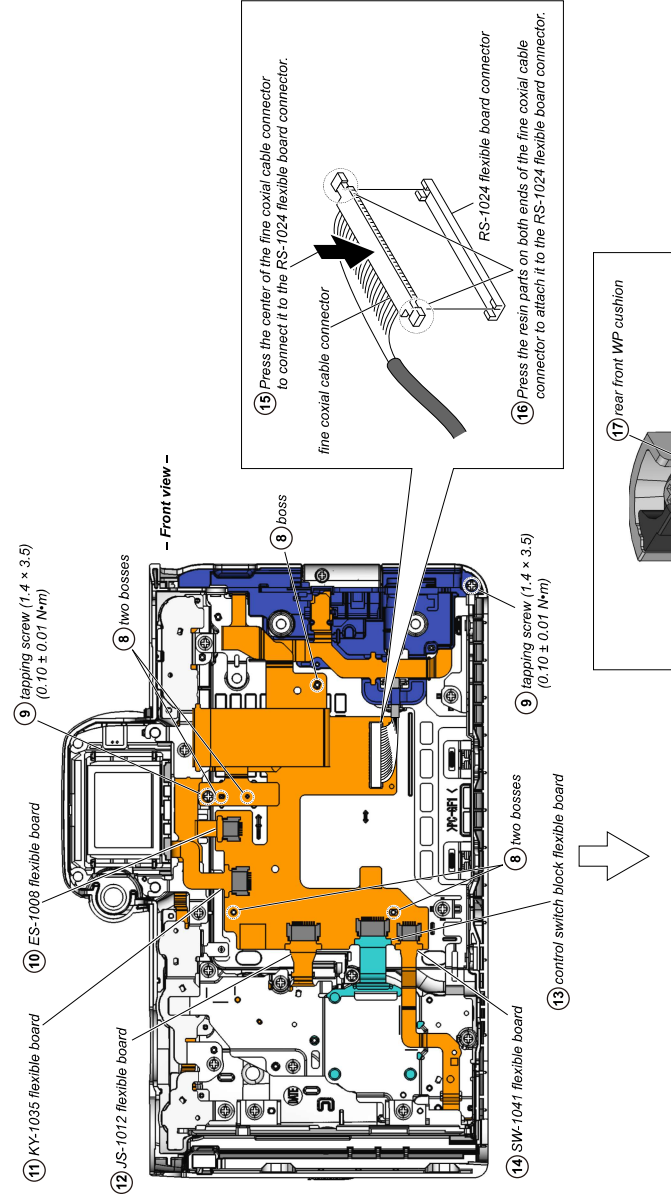
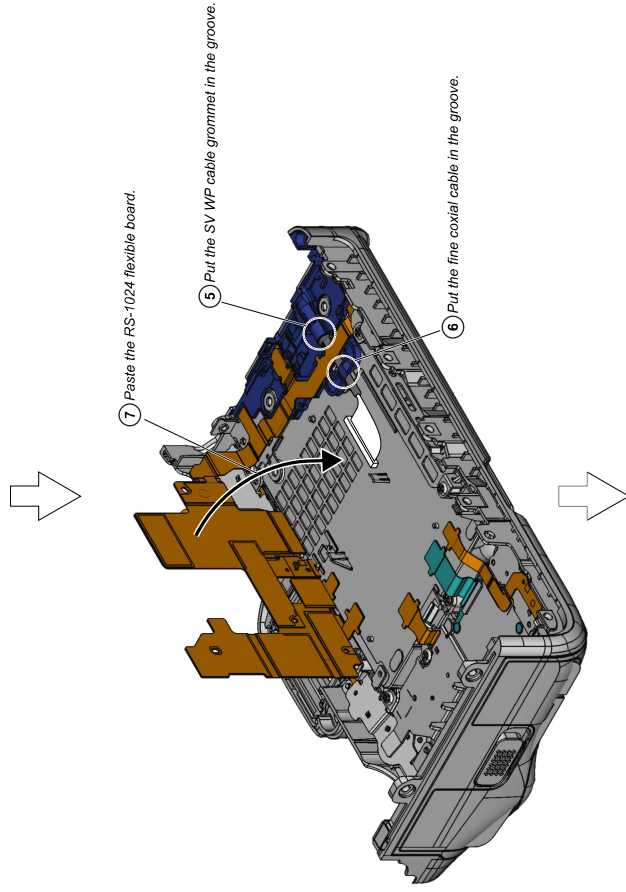
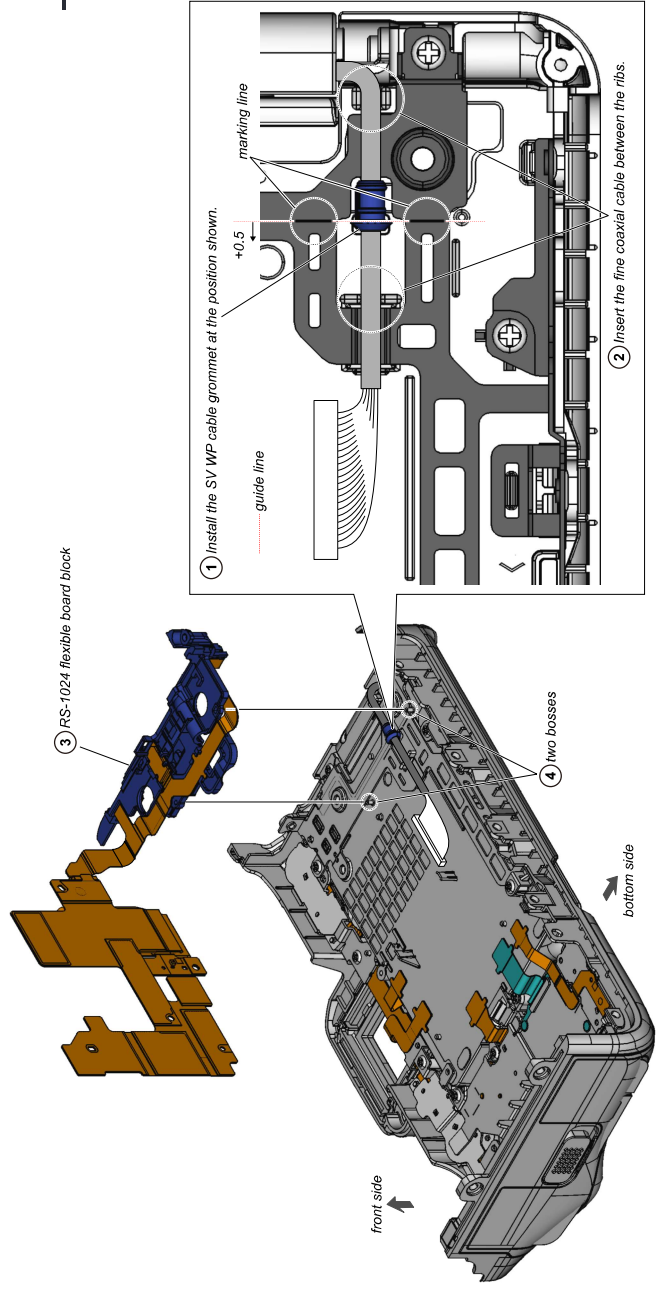


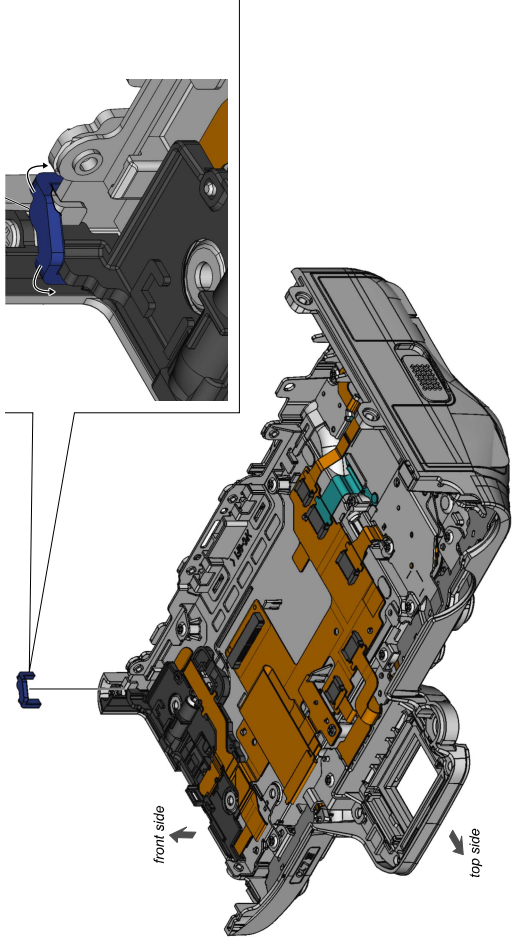




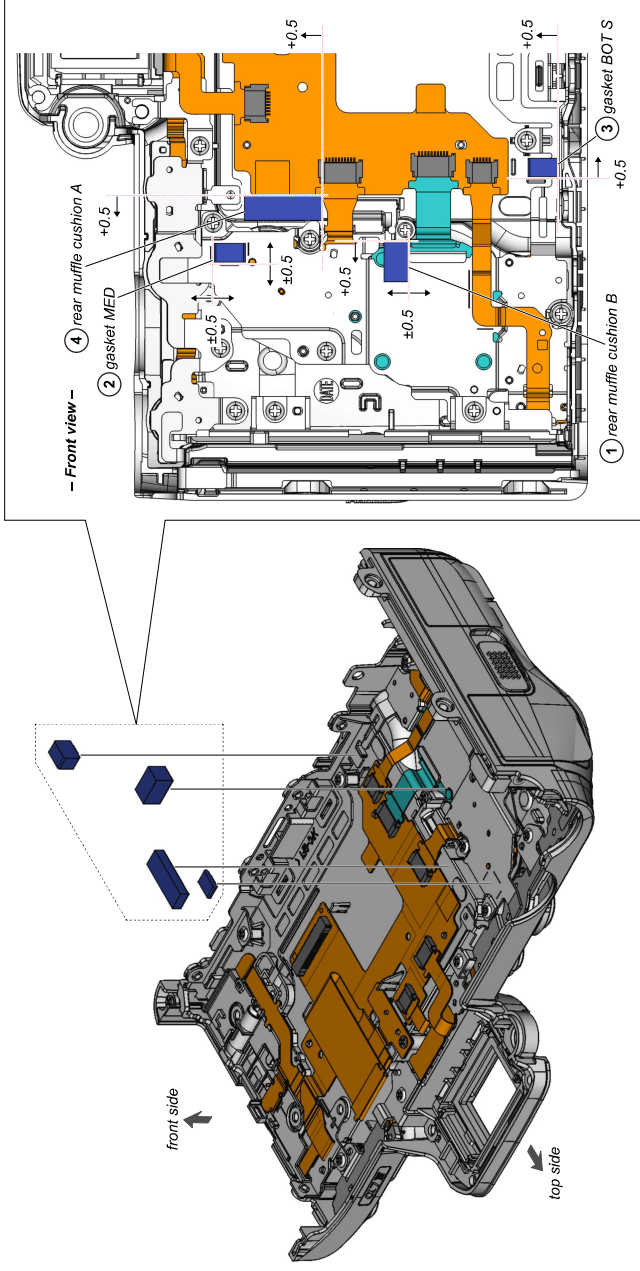
49. RS-1024 FLEXIBLE BOARD







51. REAR MUFFLE CUSHION A/B, GASKET MED/BOT S



4 four screws (M1.7 x 5.0)
(0.16 ± 0.02 N·m)

1 rear cabinet block

rear side

2 RS-1024 flexible board

3 install the rear cabinet block.

Note 1: Insert the BTH frame in the gap between the rear cabinet rib and the rear plate.

rear side

rear plate

rear cabinet rib

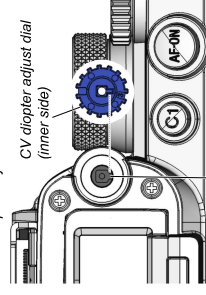
BTH frame

bottom side

bottom side

• How to install the CV diopter adjust dial

Note 2: When installing the CV diopter adjust dial, take note of the orientation of the CV diopter adjust dial.



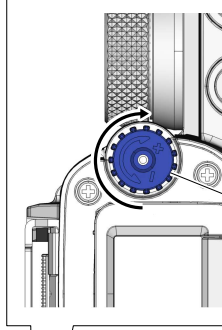
12 tapping screw (1.4 x 5.0)
(0.08 ± 0.01 N·m)

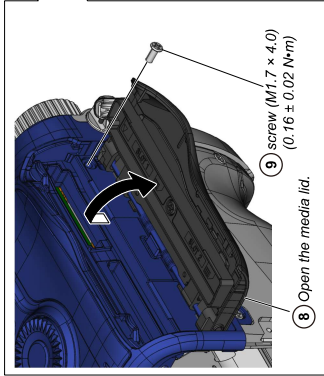
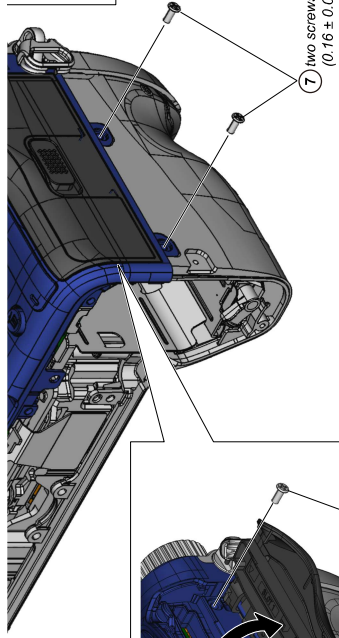
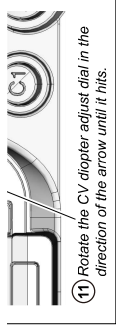
10 CV diopter adjust dial

6 three screws (M1.7 x 3.0)
(0.16 ± 0.02 N·m)

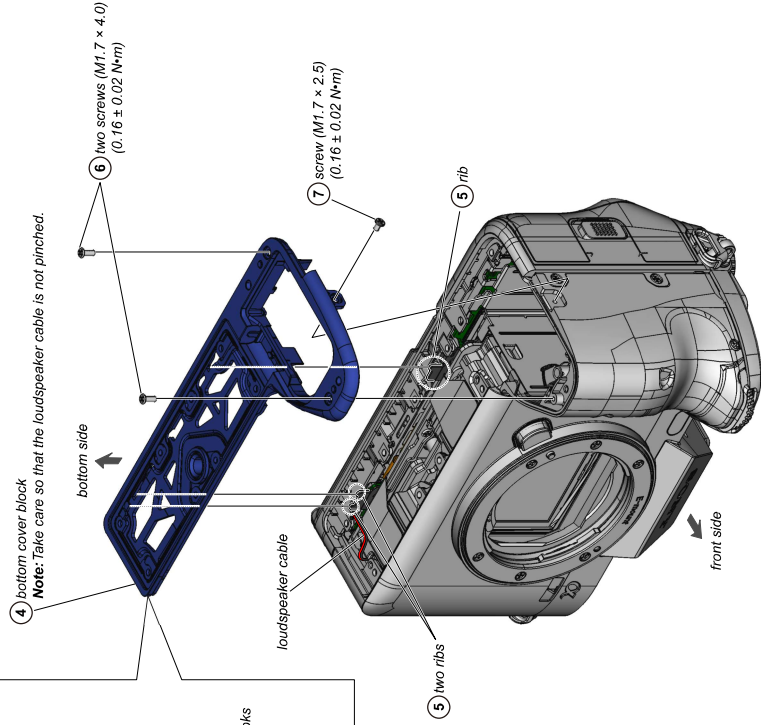
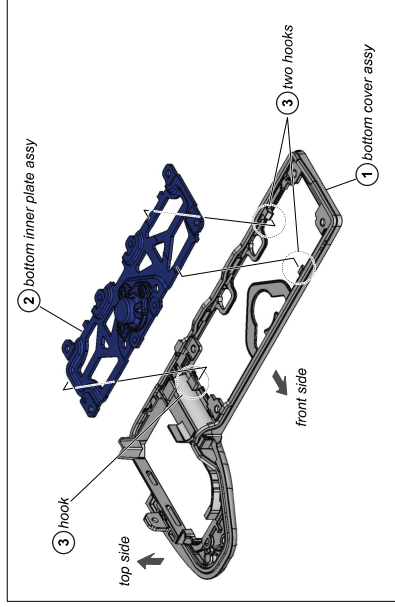
5 Open the LCD panel.

13 eye cup assy





53. BOTTOM COVER ASSY

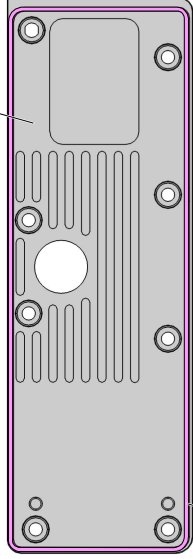


54. BOTTOM WP POTTING B-ASSY

Note 1: Before installing the bottom WP potting B-assy, check the condition of the waterproof potting material.
Refer to **"HANDLING WATERPROOF POTTED COMPONENTS"** on the SERVICE NOTE for details.

Note 2: Do not touch or hit the waterproof potting material.

bottom WP potting B-assy



– Upper view –

waterproof potting material

- ② two screws (M1.7 × 5.0)
(0.16 ± 0.02 N·m)
- ③ four screws (M1.7 × 4.0)
(0.16 ± 0.02 N·m)
- ② two screws (M1.7 × 5.0)
(0.16 ± 0.02 N·m)

bottom side

① bottom WP potting B-assy



Note 3: Install the bottom WP potting B-assy vertically.

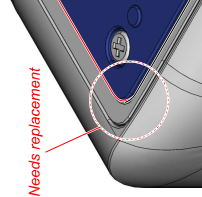
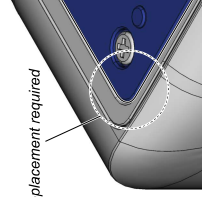
If you install it at an angle, the waterproof potting material may come off.

Note 4: Be careful not to trap dust during installation.
Use a blower to remove dust. (Be careful not to be too strong)
Do not wipe with solvent.

Note 5: If there is a step between the bottom cover Assy and the bottom WP potting B-assy, the waterproof potting material has peeled off.
Do not reuse the bottom WP potting B-assy, be sure to replace it with a new part.

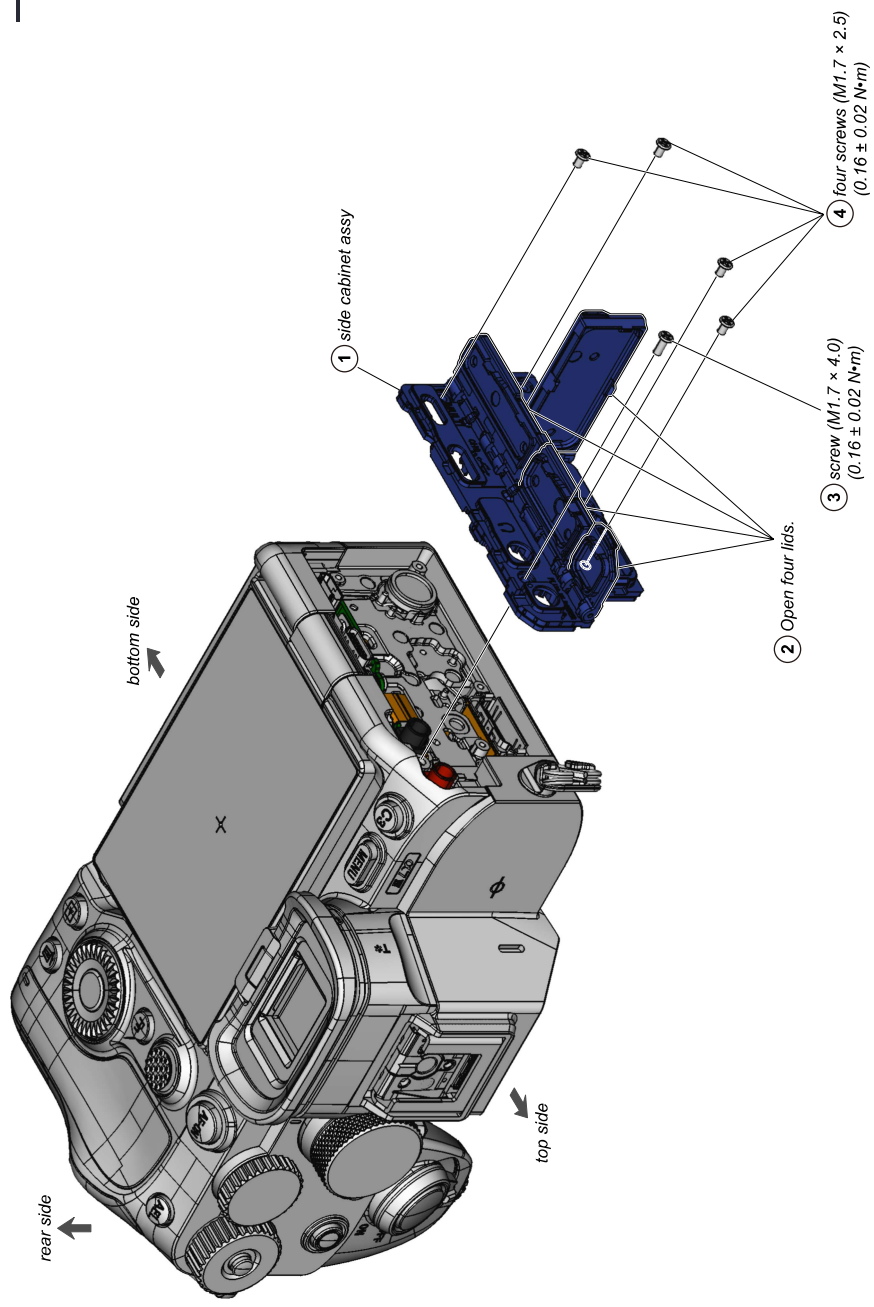
No step: No replacement required

Stepped: Needs replacement

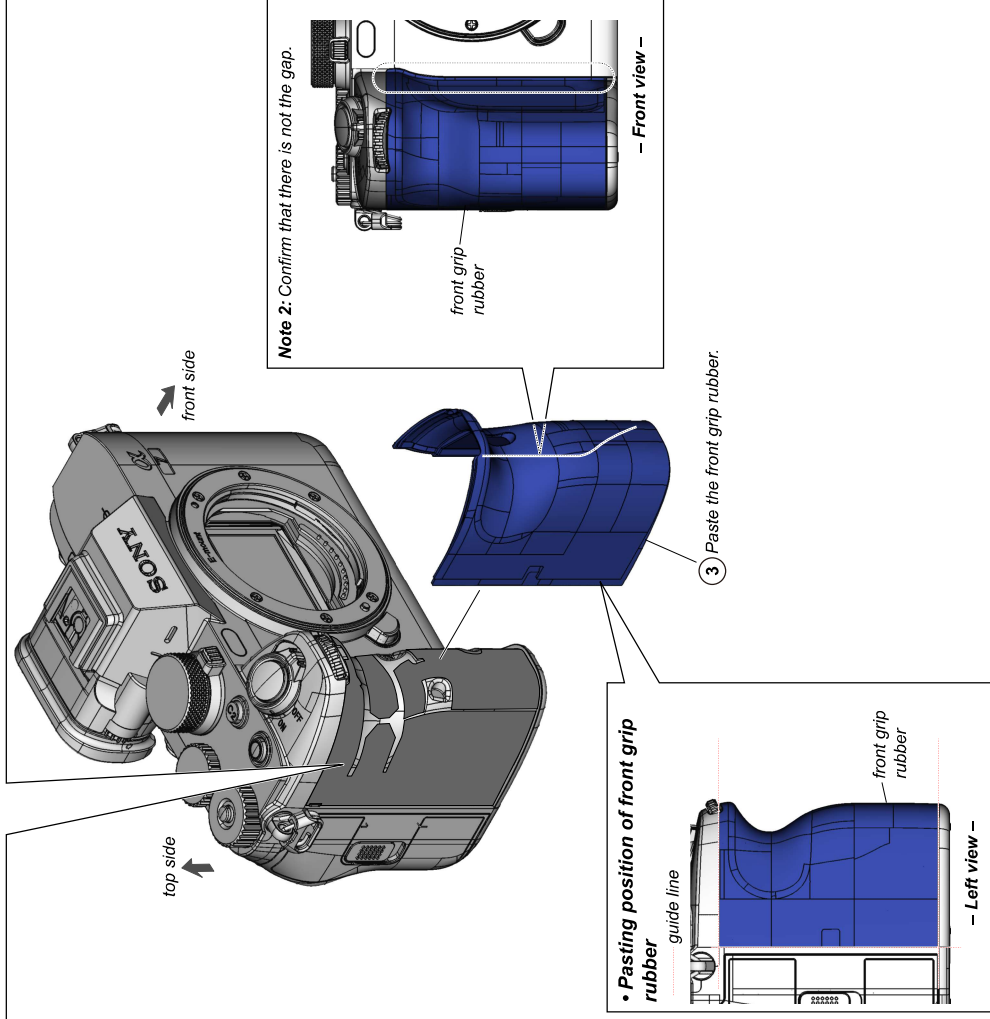
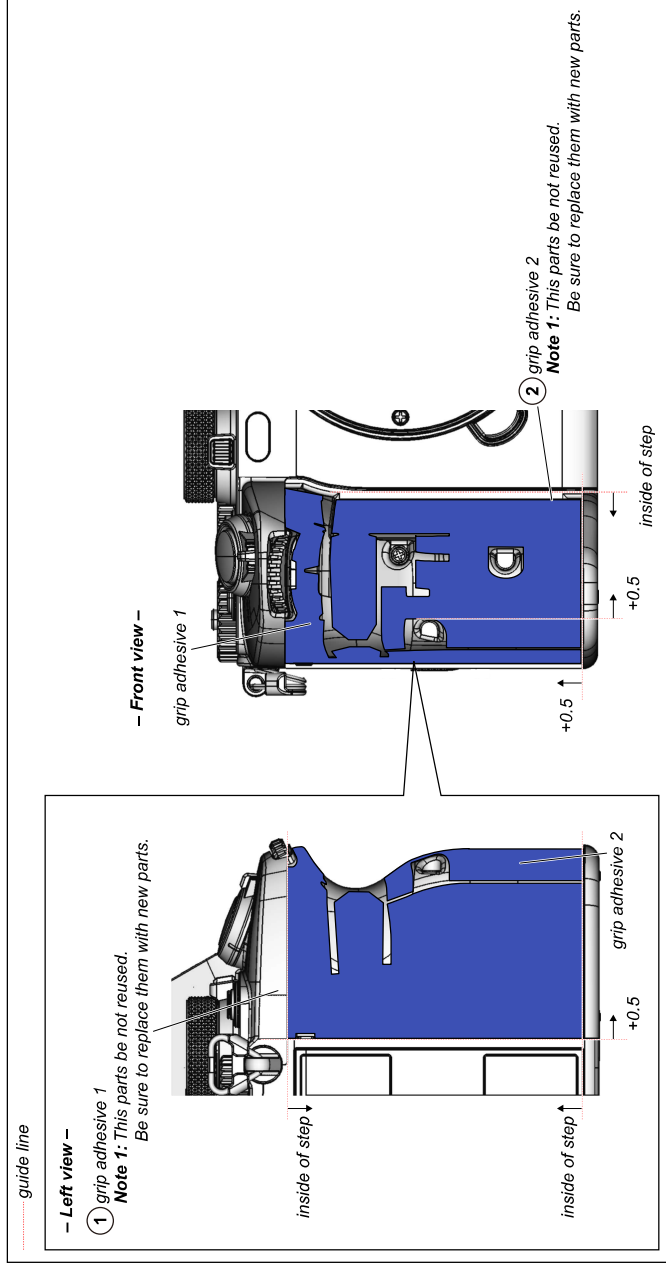


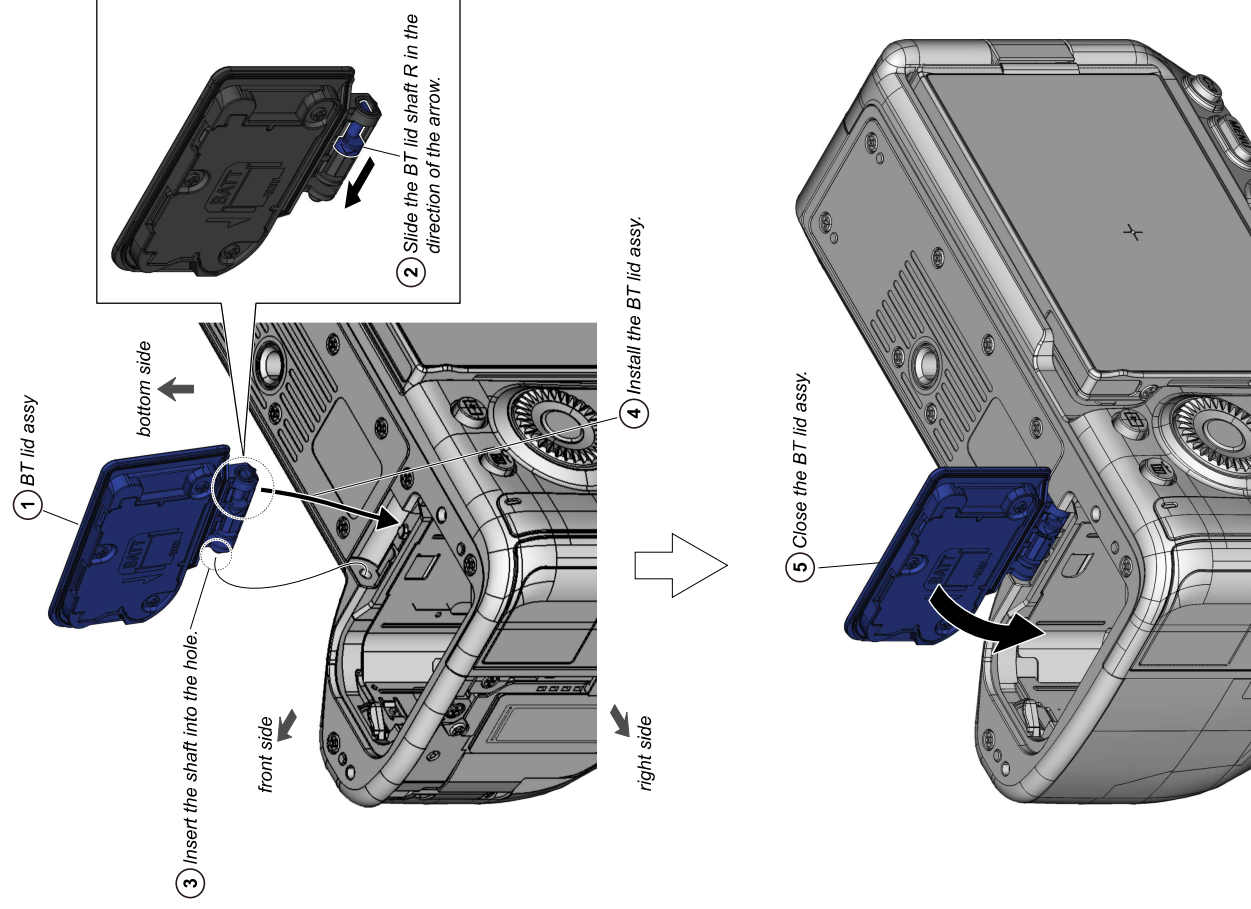
front side

55. SIDE CABINET ASSY



56. FRONT GRIP RUBBER





EXPLODED VIEWS

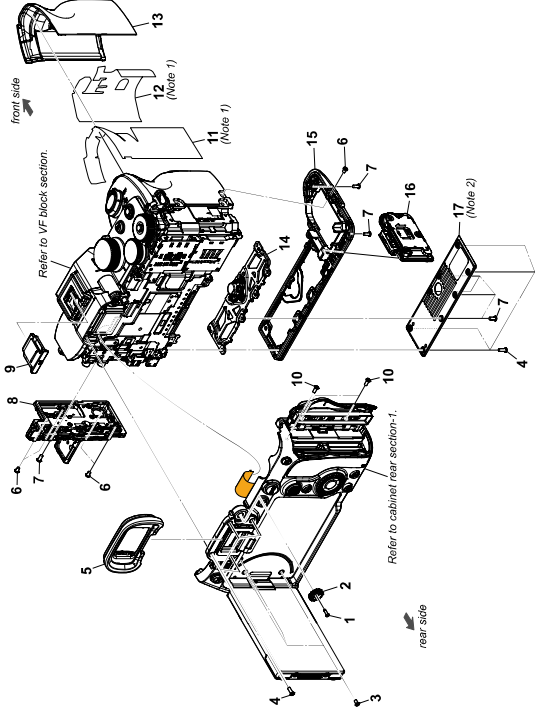
Note

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

The components identified by mark $\triangle$ or dotted line with mark are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

OVERALL SECTION



Note 1

This parts be not reused.
Be sure to replace them with new parts.

Note 2

If you want to reuse this part, refer to “[HANDLING WATERPROOF POTTED COMPONENTS](#)” on the SERVICE NOTE and check whether it can be reused.

Ref. No.	Part No.	Description
1	430010611	BTITE (1.4 (CH)) (L = 5.0 mm)
2	500367201	CV DIOPTRER ADJUST DIAL (88100)
3	444694921	SCREW (M1.7) (L = 3.0 mm)
4	444694941	SCREW (M1.7) (L = 5.0 mm)
5	X50009261	EYE CUP ASSY (850)
6	444694931	SCREW (M1.7) (L = 2.5 mm)
7	444694901	SCREW (M1.7) (L = 4.0 mm)
8	X50022801	SIDE CABINET ASSY (89100)
9	443873412	SHOE CAP (875)
10	444694911	SCREW (M1.7) (L = 4.0 mm)
11	502860601	GRIP ADHESIVE 1 (89100) (Note 1)
12	502860701	GRIP ADHESIVE 2 (89100) (Note 1)
13	502779301	FRONT GRIP RUBBER (89100)
14	X50022811	BOTTOM INNER PLATE ASSY (891)
15	X50022822	BOTTOM COVER ASSY (89100)
16	X50022831	BT LID ASSY (89100)
17	A5025879A	BOTTOM WP POTTING B-ASSY (850) (Note 2)

Refer to cabinet rear section-2

Refer to panel module section.

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Refer to cabinet rear section-2

Refer to panel module section.

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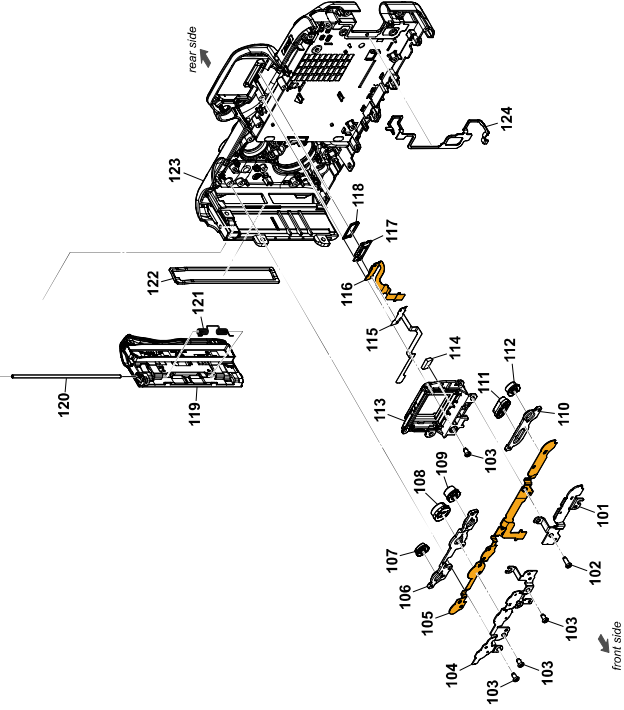
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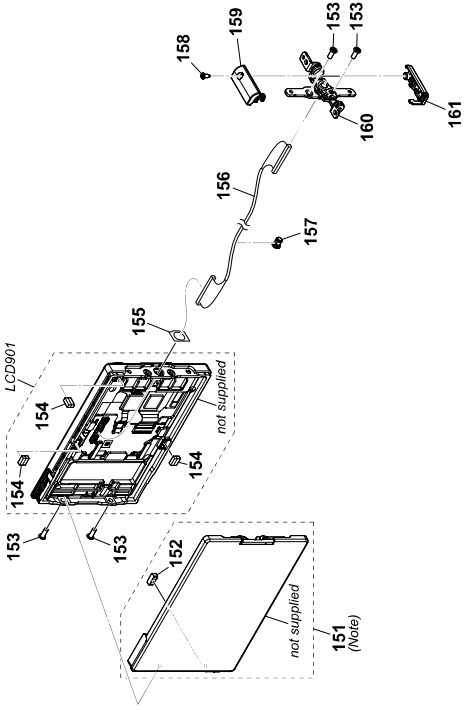
51

CABINET REAR SECTION-2



Ref. No.	Part No.	Description
101	502794101	REAR BUTTON PLATE L (89100)
102	430011521	TAPPING (1.7) (CH) (L = 5.0 mm)
103	430011501	TAPPING (1.7) (CH) (L = 3.5 mm)
104	502794001	REAR BUTTON PLATE R (89100)
105	100999311	KY-1035 FLEXIBLE BOARD
106	502793901	C1 AF AEL RUBBER (89100)
107	502793701	AEL BUTTON (89100)
108	501033401	AF BUTTON (850)
109	501137901	C1 BUTTON (850)
110	502793801	C3 MENU RUBBER (89100)
111	500388501	MENU BUTTON (88100)
112	502793601	C3 BUTTON (89100)
113	A5038709A	FINDER COVER (89100) (SERVICE)
114	501142001	EYE SENSOR RET CUSHION (850)
115	502997201	ES GND SHEET (89100)
116	Not Supplied	-
117	501034401	EYE SENSOR WINDOW (850)
118	501034501	EYE SENSOR WP CUSHION (850)
119	X50022791	MEDIA LID ASSY (89100)
120	501035811	MEDIA LID SHAFT (850)
121	501035701	MEDIA LID ROTATION SPRING (850)
122	502862701	MEDIA LID WP CUSHION (89100)
123	A5038778A	CAB REAR ASSY (LOGO) (89100) (S)
124	502863101	RE LC WP CUSHION B (89100)

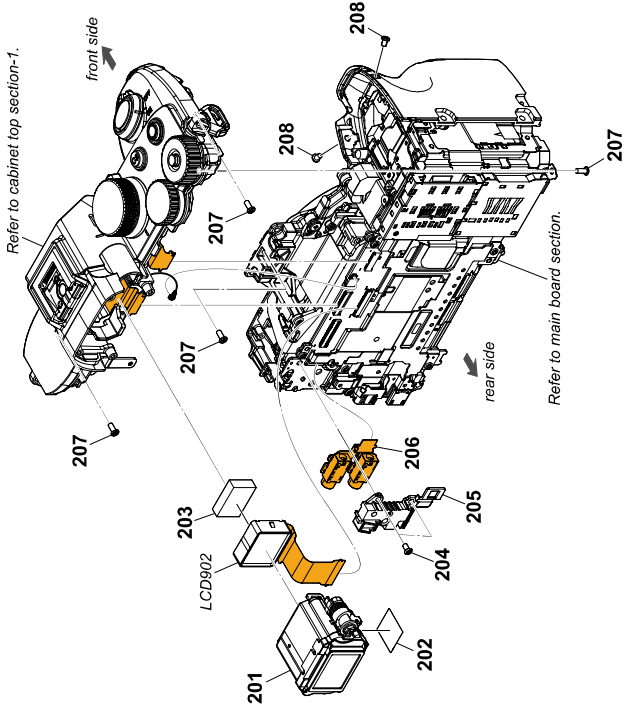
PANEL MODULE SECTION



Note

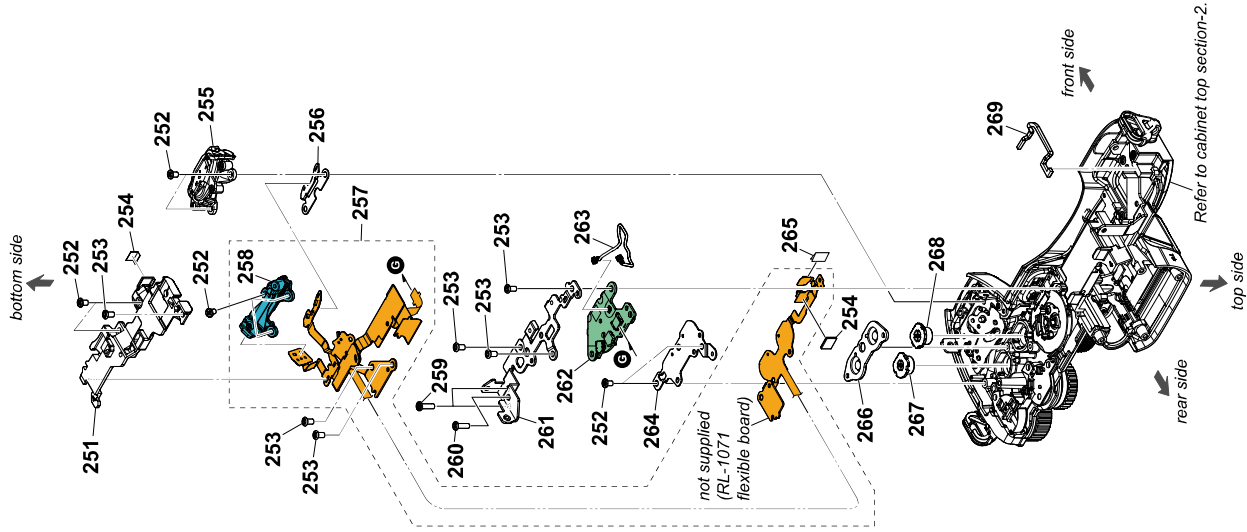
If you want to reuse this part, refer to “[HANDLING WATERPROOF POTIED COMPONENTS](#)” on the SERVICE NOTE and check whether it can be reused.

Ref. No.	Part No.	Description
151	A5038711A	LCD CAB R ASSY (891) (SERVICE) (Note)
152	503623601	GASKET S (CN (799))
153	444694911	SCREW (M1.7) (L = 4.0 mm)
154	147173811	MAGNET, SENSOR
155	501161301	SV ADHESHIVE (HINGE)
156	100597621	FINE COXIAL CABLE
157	501161101	SV WP CABLE GROMMET
158	443388221	TAPPING (1.4) (ECOLOGY) (L = 3.0 mm)
159	501160401	SV HINGE COVER REAR
160	X50010462	SV HINGE ASSY
161	A5043354A	SERVICE HINGE COVER ASSY (891)
LCD901	Not Supplied	-



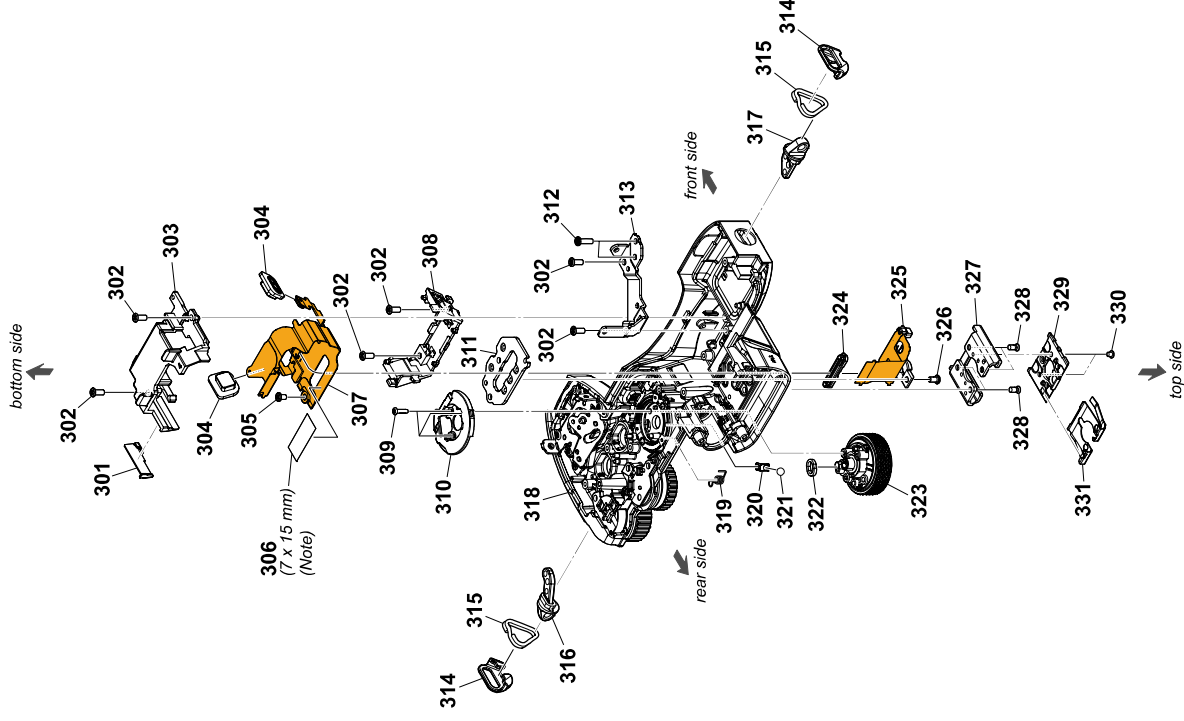
Ref. No.	Part No.	Description
201	X25912114	MODULE ASSY, VF
202	457581811	SHEET, VF FLEXIBLE ADHESIVE
203	457578001	VF SHEET, RADIATION (795)
204	259947521	SCREW (M1.7) (L = 3.0 mm)
205	502789601	JK HOLDER (89100)
206	A5022316A	JK-1028 FLEXIBLE BOARD, COMPLETE
207	444694901	SCREW (M1.7) (L = 4.0 mm)
208	218734521	SCREW (M1.7), P2 (L = 2.5 mm)
LCD902	Not Supplied	-

CABINET TOP SECTION-1



Ref. No.	Part No.	Description
251	502790701	RL FPC BASE (89100)
252	263556211	SCREW (M1.7) (L = 2.5 mm)
253	259947521	SCREW (M1.7) (L = 3.0 mm)
254	501141301	AF CUSHION (850)
255	X50025381	CNT DIAL F ASSY (89100)
256	500382401	CNT D F HOLDER PLATE (88100)
257	A5036663A	RL SOLDER (RL-1071 FLEXIBLE BOARD)
258	100203812	SWITCH BLOCK, CONTROL (RL88100)
259	418654511	SCREW, 0+Z M1.7 SG (SPIN) (L = 5.5 mm)
260	444694941	SCREW (M1.7) (L = 5.0 mm)
261	502790601	EYELET PLATE G (89100)
262	A5033443A	AN-1043 BOARD, COMPLETE
263	184647441	CABLE, COAXIAL (45 mm)
264	502790901	CUSTOM BUTTON PLATE (89100)
265	503673201	RL FPC SHADE SHEET (891)
266	500385801	CUSTOM BUTTON RUBBER (88100)
267	501033301	REC BUTTON (850)
268	500385701	C2 BUTTON (88100)
269	501030701	TOP WP CUSHION F3 (850)

CABINET TOP SECTION-2



Note

When replacing this parts, cut the specific size indicated in the figure before use.

Ref. No.	Part No.	Description
301	500374001	DIOPTR COVER WP SHEET B (881)
302	444694901	SCREW (M1.7) (L = 4.0 mm)
303	502790801	EVF PROTECTOR (89100)
304	502687801	RUBBER (885), MICROPHONE
305	263556211	SCREW (M1.7) (L = 2.5 mm)
306	750000493	TAPE (631S #25) 7 mmX50M BLK (Note)
307	A5033450A	SH-1035 FLEXIBLE BOARD, COMPLETE
308	502790401	MIC HOLDER (89100)
309	430010611	BTITE (1.4 (CH)) (L = 5.0 mm)
310	A5038708A	SV DIAL FPC COVER (891) (S)
311	500395901	MI SHOE FIX PLATE (88100)
312	418654511	SCREW, 0+Z M1.7 SG (SPIN) (L = 5.5 mm)
313	502790501	TOP CONNECT PLATE L (89100)
314	448787501	HOLDER, EYELET TRIANGLE (779)
315	501695901	EYELET TRIANGLE (850)
316	A5025945A	EYELET G (850) (SERVICE)
317	A5025944A	EYELET L (850) (SERVICE)
318	A5038707A	CABINET TOP ASSY (LOGO) (891) (S)
319	503009301	SV DIAL SPRING (89100)
320	500417201	AM DIAL BALL HOLDER (88200)
321	767111211	BALL, STEEL
322	502861101	SV WP CUSHION B (89100)
323	A5033617A	MD DIAL BLOCK ASSY (89100)
324	501695501	MI SHOE FPC WP RUBBER (850)
325	A5001908A	MIS-2006 FLEXIBLE BOARD, COMPLETE
326	259947521	SCREW (M1.7) (L = 3.0 mm)
327	500294302	MI SHOE SHELL PLATE (88100)
328	500294701	SCREW (M1.7) SPECIAL HEAD (L = 3.3 mm)
329	500294602	MI SHOE SCREW COVER (88100)
330	428743511	SCREW (M1.4 EUROPE) TYPE (L = 1.4 mm)
331	500294502	MI SHOE SPRING PLATE (88100)

front side

Refer to battery holder section.

360 (7 x 15 mm) (Note)

360 (7 x 15 mm) (Note)

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360 (7 x 15 mm) (Note)

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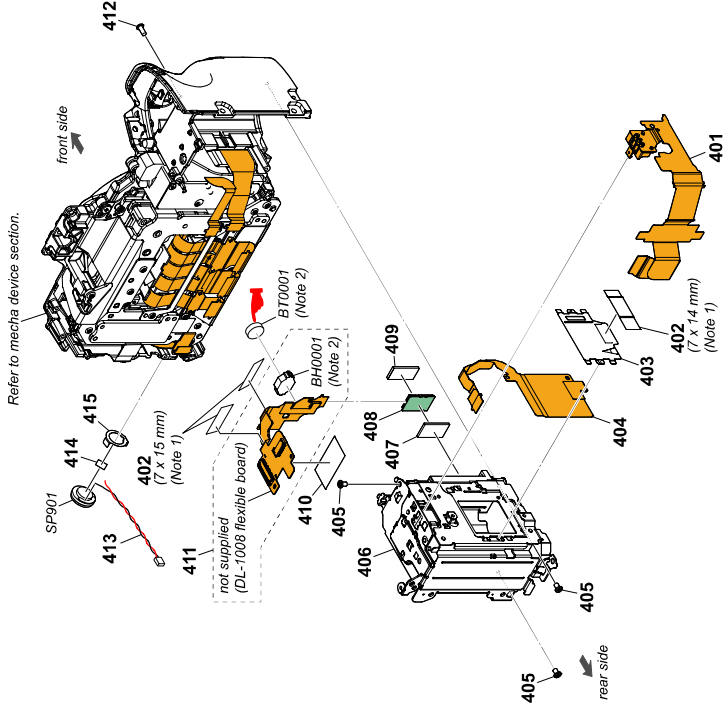
351

rear side

Note

When replacing this parts, cut the specific size indicated in the figure before use.

BATTERY HOLDER SECTION



Ref. No.	Part No.	Description
401	A5023247A	BT_SOLDER (including BT-2033 flexible board)
402	750000493	TAPE (631S #25) 7 mmX50M BLK (Note 1)
403	500371201	VG FPC FIX PLATE (88100)
404	198422211	VG-1007 FLEXIBLE BOARD
405	263556211	SCREW (M1.7) (L = 2.5 mm)
406	X50022741	BTH ASSY (89100)
407	Not Supplied	-
408	Not Supplied	-
409	501138301	CUSHION (G (850)), GYRO
410	500708501	ADHESIVE DL TOP (88100)
411	A5033446A	DL-1008 FLEXIBLE BOARD, COMPLETE
412	444694901	SCREW (M1.7) (L = 4.0 mm)
413	184678731	CABLE
414	501696001	SPEAKER GND SHEET (850)
415	500463101	SP INSULATION SHEET (88100)
BH0001	125192821	SOCKET, BATTERY
BT0001	175613418	BATTERY, LITHIUM (SECONDARY) (Note 2)
SP901	185921011	LOUDSPEAKER (1.0 cm)

Note 1

When replacing this parts, cut the specific size indicated in the figure before use.

Note 2

Replace the battery socket (Ref. No. BH0001) together when replacing the lithium battery (secondary) (Ref. No. BT0001) on the DL-1008 flexible board (The battery socket removed once cannot be used again).

When mounting these parts, mount new battery socket on the DL-1008 flexible board first and attach new lithium battery (secondary) next.



lithium battery (secondary) (Ref. No. BT0001)

SUPPLIED ACCESSORIES

Note

Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

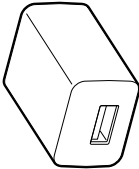
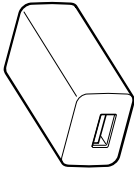
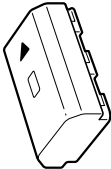
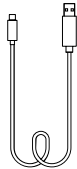
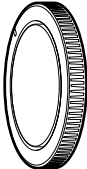
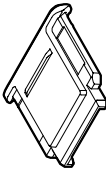
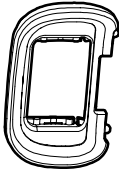
Click the part image to enlarge the image.

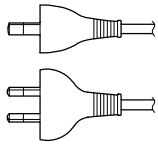
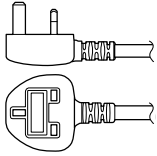
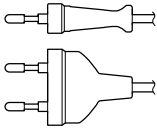
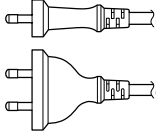
The components identified by mark  or dotted line with mark are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Click the part image to enlarge the image.

Ref. No.	Product	Part No.	Description
*		503152312	MANUAL, INSTRUCTION (Startup Guide) (ENGLISH) (JE)
*		503152322	MANUAL, INSTRUCTION (Startup Guide) (SPANISH, PORTUGUESE) (JE)
*		503152332	MANUAL, INSTRUCTION (Startup Guide) (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE, DANISH, FINNISH, NORWEGIAN, POLISH, RUSSIAN, UKRAINIAN) (AEP, UK)
*		503152342	MANUAL, INSTRUCTION (Startup Guide) (KOREAN) (JE)
*		503152352	MANUAL, INSTRUCTION (Startup Guide) (TRADITIONAL CHINESE) (JE)
*		503152362	MANUAL, INSTRUCTION (Startup Guide) (SIMPLIFIED CHINESE) (CH, JE)
*		503152412	MANUAL, INSTRUCTION (Startup Guide) (HUNGARIAN) (AEP, UK)
*		503152422	MANUAL, INSTRUCTION (Startup Guide) (SLOVAK) (AEP, UK)
*		503152432	MANUAL, INSTRUCTION (Startup Guide) (CZECH) (AEP, UK)
*		503152912	MANUAL, INSTRUCTION (Startup Guide) (ENGLISH) (US, CND, E: PAL, E: NTSC, IND, AF)
*		503152922	MANUAL, INSTRUCTION (Startup Guide) (FRENCH) (US, CND, AF)
*		503152932	MANUAL, INSTRUCTION (Startup Guide) (SPANISH, PORTUGUESE) (E: NTSC)
*		503152942	MANUAL, INSTRUCTION (Startup Guide) (ARABIC, PERSIAN) (E: PAL, AF)
*		503152952	MANUAL, INSTRUCTION (Startup Guide) (KOREAN) (KR)

Ref. No.	Product	Part No.	Description
*		503152962	MANUAL, INSTRUCTION (Startup Guide) (TRADITIONAL CHINESE) (E: PAL, E: NTSC, AF)
		503152972	MANUAL, INSTRUCTION (Startup Guide) (SIMPLIFIED CHINESE) (E: PAL, E: NTSC, AF)
		503152982	MANUAL, INSTRUCTION (Startup Guide) (RUSSIAN) (AF)
		503153012	MANUAL, INSTRUCTION (Startup Guide) (THAI) (E: PAL)
		503153022	MANUAL, INSTRUCTION (Startup Guide) (INDONESIAN) (AF)
△ 901		149308413	AC Adaptor (AC-UUD12) (US, CND, JE)
		149308422	AC Adaptor (AC-UUD12) (CH)
		149308451	AC Adaptor (AC-UUD12) (KR)
		149308515	AC Adaptor (AC-UUD12) (E: NTSC)
△ 902		149308317	AC Adaptor (AC-UUE12) (AEP, UK, E: PAL, IND, AF)
△ 903		802663103	Rechargeable battery pack (NP-FZ100/JCE) (Except US, CND, CH)
		802663130	Rechargeable battery pack (NP-FZ100/UC) (US, CND)
		802663175	Rechargeable battery pack (NP-FZ100/CN1) (CH)
904		101189421	USB Type-C cable
905		503179801	Shoulder Strap
906		418853601	Body cap
907		443873412	Shoe Cap
908		X50009261	Eyepiece Cup

Ref. No.	Product	Part No.	Description
△909		100936612	Power cord (mains lead) (E: PAL) (Note)
△910		184867841	Power cord (mains lead) (AEP, UK, E: PAL, AF) (Note)
△911		184867951	Power cord (mains lead) (AEP, UK, E: PAL, AF) (Note)
△912		184925631	Power cord (mains lead) (IND)
△913		156900731	Conversion (2P) Adaptor (E: NTSC, JE)
Note Select the power cord that matches your countries/regions.			

FRAME SCHEMATIC DIAGRAMS

Zoom in

