SONY

Sony CONFIDENTIAL
For Authorized Servicer

DIGITAL CAMERA

ZV-1

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Self Diagnosis Supported model　自己診断搭載機種

SERVICE MANUAL (LEVEL 3)
1st Edition

⚠ 警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

注意

指定以外の電池に交換すると，破裂する危険があります。
必ず指定の電池に交換してください。
使用済みの電池は，国または地域の法令に従って
処理してください。

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
When you dispose of the battery, you must obey the law in the relative area or country.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.
Lorsque vous mettez la batterie au rebut, vous devez respecter la législation en vigueur dans le pays ou la région où vous vous trouvez.

VORSICHT

Explosionsgefahr bei Verwendung falscher Batterien.
Batterien nur durch den vom Hersteller empfohlenen oder einen gleichwertigen Typ ersetzen.
Wenn Sie die Batterie entsorgen, müssen Sie die Gesetze der jeweiligen Region und des jeweiligen Landes befolgen.

FÖRSIKTIGHET!

Fara för explosion vid felaktigt placerat batteri.
Byt endast mot samma eller likvärdig typ av batteri, enligt tillverkarens rekommendationer.
När du kasserar batteriet ska du följa rådande lagar för regionen eller landet.

PAS PÅ

Fare for eksplosion, hvis batteriet ikke udskiftes korrekt.
Udskift kun med et batteri af samme eller tilsvarende type, som er anbefalet af fabrikanten.
Når du bortskaffer batteriet, skal du følge lovgivningen i det pågældende område eller land.

HUOMIO

Räjähdysvaara, jos akku vaihdetaan virheellisesti.
Vaihda vain samanlaiseen tai vastaavantyyppiseen, valmistajan suosittelemaan akkuun.
Noudata akun hävittämisessä oman maasi tai alueesi lakeja.

FORSIKTIG

Eksplosjonsfare hvis feil type batteri settes i.
Bytt ut kun med samme type eller tilsvarende anbefalt av produsenten.
Kasser batteriet i henhold til gjeldende avfallsregler.

注意

如果更换的电池不正确，就会有爆炸的危险。
只更换同一类型或制造商推荐的电池型号。
处理电池时，必须遵守相关地区或国家的法律。

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. In case a virus affected unit was found during service, contact your Service Headquarters.

注意:
修理時に使用するパソコンは，ウィルス検出ソフトが常にアップデートを行っているパソコンを使用してください。もし，修理を行うセット，もしくはパソコンがウィルスに感染している事が判明した場合は，ソニーグループ内は社内技術相談窓口に，特約店様は特約店様専用電話窓口（修理窓口）にご相談ください。

SAFETY CHECK-OUT

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

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Set the soldering iron tip temperature to 350 °C approximately.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

This unit uses unleaded solder.
Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Be careful to the following points to solder or unsolder.

- Set the soldering iron tip temperature to 350 °C approximately.
  If cannot control temperature, solder/unsolder at high temperature for a short time.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Be sure to control soldering iron tips used for unleaded solder and those for leaded solder so they are managed separately. Mixing unleaded solder and leaded solder will cause detachment phenomenon.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK 0 OR DOTTED LINE WITH MARK 0 ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE 0 SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

サービス，点検時には次のことにご注意ください。

1. 注意事項をお守りください。
   サービスのとき特に注意を要する個所については，キャビネット，シャーシ，部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守り下さい。
2. 指定部品のご使用を
   セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は，使用されていたものと同じ特性の部品を使用して下さい。特に回路図，部品表に0 印で指定されている安全上重要な部品は必ず指定のものをご使用下さい。
3. 部品の取付けや配線の引きまわしはもとどおりに
   安全上，チューブやテープなどの絶縁材料を使用したり，プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパによって発熱部品や高圧部品に接近しないよう配慮されていますので，これらは必ずもとどおりにして下さい。
4. サービス後は安全点検を
   サービスのために取外したネジ，部品，配線がもとどおりになっているか，またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し，安全性が確保されていることを確認して下さい。
5. チップ部品交換時の注意
   - 取外した部品は再使用しないで下さい。
   - タンタルコンデンサのマイナス側は熱に弱いため交換時は注意して下さい。
6. フレキシブルプリント基板の取扱いについて
   - 半田こてのこて先温度は約350℃に設定してください。
   - 同一パターンに何度もコテ先を当てないで下さい。（3回以内）
   - パターンに力が加わらないよう注意して下さい。

無鉛半田について
本機には無鉛半田が使用されています。
無鉛半田を使用している基板には，無鉛（Lead Free）を意味するレッドフリーマークがプリントされています。
（注意：□基板サイズによっては，無鉛半田を使用していてもレッドフリーマークがプリントされていないものがあります）

 ：レッドフリーマーク

無鉛半田は，下記の点に注意して使用してください。

- 半田こてのこて先温度は約350℃に設定してください。
  温度調節が無理な場合は，高温短時間で作業を行ってください。
  注意：半田こてを長く当てすぎると，基板のパターン（銅箔）がはがれてしまうことがありますので，注意してください。また，従来の半田よりも粘性が強いため，IC端子などが半田ブリッジしないように注意してください。
- 半田こてのこて先は，必ず無鉛半田用と有鉛半田用に分けて管理してください。
  無鉛半田と有鉛半田が混在すると剥離現象が発生してしまいます。

Model Information

Model	**ZV-1**	
Destination	UC2, TW6, KR2, J1	CE3, E32, IN5, CN1
Color system	NTSC	PAL
GPS	-	-
Wi-Fi	✓	✓
NFC	-	-

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Section 1
Repair Parts List

1-1. Note on Repair Parts

(ENGLISH)

NOTE:

- -XX, -X mean standardized parts, so they may have some differences 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.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- ns: Not supplied part.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA... : µA... , uPA... : µPA... , uPB... : µPB... ,
  uPC... : µPC... , uPD... : µPD...

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.

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.

注意
如果电池更换不当会有爆炸危险。
只能用同样类型或等效类型的电池来更换。
务必按照说明处置用完的电池。

- Color Indication of Appearance Parts
  Example:
  (SILVER) : Cabinet's Color
  (Silver) : Parts Color

(JAPANESE)

【 使用上の注意】

- -XX, -Xは標準化部品のため, セット に付いている部品と 異なる場合があります。
- *印の部品は常備在庫し ておりません。
- ここに記載さ れている部品は, 補修用部品であるため, 回路図及びセット に付いている部品と 異なる場合があります。
- ns: 供給対象外部品。
- コンデンサの単位でuFはµFを 示し ます。
- 抵抗の単位Ωは省略し てあります。
  金　　被: 金属被膜抵抗。
  サンキン: 酸化金属被膜抵抗。
- インダクタ の単位でuHはµHを 示し ます。
- 半導体の名称でuA..., uPA..., uPB..., uPC..., uPD... 等は
  それぞれµA..., µPA..., µPB..., µPC..., µPD...を 示し ます。

⚠印の部品，または ⚠印付の点線で囲まれた部品は，
安全性を 維持するために，重要な部品です。
従って 交換時は，必ず指定の部品を 使用し てく ださい。

注意
電池の交換は、正しく 行わないと 破裂する 恐れがあり ます。電池を 交換する 場合には必ず同じ 型名の電池又は同等品と 交換し てく ださい。
使用済み電池は、取扱指示に従って 処分し てく ださい。

・ 外装部品色表示
例:
(SILVER): セット の色を 表す。
(Silver): 部品の色を 表す。

1-2. Electrical Parts List

BT-2030 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5001215A		BT-2030 FLEXIBLE BOARD, COMPLETE
CN0701	Not supplied		CONNECTOR, BOARD TO BOARD 44P

CD-1009 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5012267A		INDIVIDUAL (1710F),BLOCK ASSY
	Not supplied		CD-1009 FLEXIBLE BOARD, COMPLETE

FP-2423 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	198241411		FP-2423 FLEXIBLE BOARD

FPC-2022 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	198360711		FPC-2022 FLEXIBLE BOARD

MIS-2006 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5001908A		MIS-2006 FLEXIBLE BOARD, COMPLETE
CN7551	Not supplied		CONNECTOR (SHOE)

MS-1041 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5016153A		MS-1041 BOARD, COMPLETE
C0301	Not supplied		CERAMIC CHIP 47uF 10% 6.3V
C0302	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C0303	Not supplied		CERAMIC CHIP 47uF 10% 6.3V
C0304	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C0311	111674911		CERAMIC CHIP 22uF 20% 6.3V
C0312	111674911		CERAMIC CHIP 22uF 20% 6.3V
C4401	112098811		CERAMIC CHIP 10uF 20% 6.3V
C4402	111877011		CERAMIC CHIP 15pF 5% 50V
C4403	111877011		CERAMIC CHIP 15pF 5% 50V
C4406	111816811		CERAMIC CHIP 1uF 20% 6.3V
C4407	111816811		CERAMIC CHIP 1uF 20% 6.3V
C4409	Not supplied		CAP, CERAMIC 4.7MF
C4411	Not supplied		CERAMIC CHIP 47uF 10% 6.3V
C4412	Not supplied		CERAMIC CHIP 47uF 10% 6.3V
C7330	Not supplied		CAP, CERAMIC 4.7MF

MS-1041 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
C7331	Not supplied		CAP, CERAMIC 4.7MF
C7332	112097911		CERAMIC CHIP 2.2uF 20% 6.3V
C7333	Not supplied		CERAMIC CHIP 0.6pF 50V
CN0301	184346911		CONNECTOR, FPC (ZIF) 61P
CN0302	Not supplied		CARD CONNECTOR
CP7330	Not supplied		WIFI+BT COMBO MODULE
D0301	650219301		DIODE SML-D12V8WT86SN
D4401	871902469		DIODE 1SS361(T5LS
D4601	871902469		DIODE 1SS361(T5LS
ET4601	Not supplied		IPS-4039T-01Y901
IC4401	Not supplied		IC TPS63024YFFR
IC4402	Not supplied		IC RP114K181D-TRB
L4401	146088611		INDUCTOR 1uH
L7330	Not supplied		INDUCTOR 2.2uH
L7334	Not supplied		INDUCTOR 6.2nH
Q4601	872905358		TRANSISTOR RN1904FE
R0301	124067991		METAL CHIP 47 5% 1/20W
R0302	124067991		METAL CHIP 47 5% 1/20W
R0303	124067991		METAL CHIP 47 5% 1/20W
R0304	124067991		METAL CHIP 47 5% 1/20W
R0307	124068191		METAL CHIP 68 5% 1/20W
R0308	124068191		METAL CHIP 68 5% 1/20W
R0311	124068191		METAL CHIP 68 5% 1/20W
R0314	124068191		METAL CHIP 68 5% 1/20W
R0322	124068391		METAL CHIP 100 5% 1/20W
R0323	124068391		METAL CHIP 100 5% 1/20W
R0324	124068391		METAL CHIP 100 5% 1/20W
R0325	124069591		METAL CHIP 1K 5% 1/20W
R0329	124068191		METAL CHIP 68 5% 1/20W
R0330	124068191		METAL CHIP 68 5% 1/20W
R0331	124067891		METAL CHIP 33 5% 1/20W
R0334	124067991		METAL CHIP 47 5% 1/20W
R0335	124068191		METAL CHIP 68 5% 1/20W
R0336	124068191		METAL CHIP 68 5% 1/20W
R4401	124071891		METAL CHIP 100K 5% 1/20W
R4403	Not supplied		METAL CHIP 560K 1% 1/20W
R4404	125729111		METAL CHIP 180K 1% 1/20W
R4609	124067891		METAL CHIP 33 5% 1/20W
R4613	124067891		METAL CHIP 33 5% 1/20W
R4614	124067891		METAL CHIP 33 5% 1/20W
R4615	124067891		METAL CHIP 33 5% 1/20W
R4616	124067891		METAL CHIP 33 5% 1/20W

PD-1065 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5020563A		SERVICE PANEL CAB FRONT ASSY
	Not supplied		PD-1065 BOARD, COMPLETE
C3107	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C3108	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C3109	111817311		CERAMIC CHIP 10uF 20% 6.3V
C3110	111817311		CERAMIC CHIP 10uF 20% 6.3V
C3111	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3112	112097911		CERAMIC CHIP 2.2uF 20% 6.3V
C3113	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3114	112214911		CERAMIC CHIP 2.2uF 10% 16V
C3115	112214711		CERAMIC CHIP 2.2uF 10% 25V
C3116	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3117	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3118	112097911		CERAMIC CHIP 2.2uF 20% 6.3V
C3119	112097911		CERAMIC CHIP 2.2uF 20% 6.3V
C3120	112097911		CERAMIC CHIP 2.2uF 20% 6.3V
C3121	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3122	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3123	112218411		CERAMIC CHIP 2.2uF 10% 10V
C3124	112218411		CERAMIC CHIP 2.2uF 10% 10V
C3125	112214911		CERAMIC CHIP 2.2uF 10% 16V
C3126	112214911		CERAMIC CHIP 2.2uF 10% 16V
C3127	112214911		CERAMIC CHIP 2.2uF 10% 16V
C3128	112214911		CERAMIC CHIP 2.2uF 10% 16V
C3129	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C3130	111817311		CERAMIC CHIP 10uF 20% 6.3V
CN3102	182185771		CONNECTOR, FPC (LIF(NON-ZIF))
CN3103	184346911		CONNECTOR, FPC (ZIF) 61P
CN3104	Not supplied		CONNECTOR, HARNESS (REC)32P
D3100	650357901		DIODE RB521SM-30T2R
D3101	650357901		DIODE RB521SM-30T2R
IC8010	671966201	*	IC BU79R272-E2
R3118	124069591		METAL CHIP 1K 5% 1/20W
R3119	124069591		METAL CHIP 1K 5% 1/20W
R3121	124067991		METAL CHIP 47 5% 1/20W

RE-1006 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5016151A		RE-1006 FLEXIBLE BOARD, COMPLETE
C0001	112021811		CERAMIC CHIP 1000PF 10% 50V
C0003	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C0004	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C0101	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C0103	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C0104	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
CN0101	181665561		CONNECTOR, FFC/FPC 8P
CN0102	Not supplied		CONNECTOR, HARNESS (REC)32P
FB001	148126221		FERRITE, EMI (SMD) (1005)
J0001	Not supplied		JACK (SMALL TYPE)
SE0101	148711811	*	GMR SENSOR
SE0102	148711831	*	GMR SENSOR
SE0103	148711811	*	GMR SENSOR

RL-1065 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5016150A		RL-1065 BOARD, COMPLETE
C0510	111816811		CERAMIC CHIP 1uF 20% 6.3V
C0518	112097911		CERAMIC CHIP 2.2uF 20% 6.3V
C0519	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C0522	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
CN0501	184320911		CONNECTOR, FFC/FPC (ZIF) 39P
D0501	650121601		DIODE CL-271HR-C-TS
D0502	650219601		DIODE SML-D12Y8WT86SP
D0503	650229401	*	DIODE SML-D13M8WT86S
IC0503	Not supplied		IC TCK107AG
R0501	125049111	*	METAL CHIP 680 1/16W
R0502	124069991		METAL CHIP 2.2K 5% 1/20W
R0503	124068791		METAL CHIP 220 5% 1/20W
R0514	124070391		METAL CHIP 4.7K 5% 1/20W
R0519	124068391		METAL CHIP 100 5% 1/20W
R0525	124068791		METAL CHIP 220 5% 1/20W
S0501	178691451	*	SWITCH, TACTILE
S0502	179842011		SWITCH, DETECTION
S0503	Not supplied		TACTILE SWITCH
S0504	178691451	*	SWITCH, TACTILE
S0505	178691451	*	SWITCH, TACTILE
S0506	178691451	*	SWITCH, TACTILE
SE0501	Not supplied		IC ICM-42605

RL-1066 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5016149A		RL-1066 FLEXIBLE BOARD, COMPLETE
C3503	112021811		CERAMIC CHIP 1000PF 10% 50V
CN3501	182237811		CONNECTOR, FPC (ZIF) 33P
MI0001	Not supplied		MEMS MICROPHONE
MI0002	Not supplied		MEMS MICROPHONE
MI0003	Not supplied		MEMS MICROPHONE
Q3501	Not supplied		TRANSISTOR PBHV8540T,215
R3501	124071491		METAL CHIP 47K 5% 1/20W
R3502	124070791		METAL CHIP 10K 5% 1/20W
R3503	121899081		CONDUCTOR, CHIP
R3504	121899081		CONDUCTOR, CHIP

SY-1112 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
	A5020708A		SY-1112 BOARD, COMPLETE (SERVICE)
C0103	111803411		CERAMIC CHIP 0.1uF 10% 10V
C0254	112021811		CERAMIC CHIP 1000PF 10% 50V
C0255	Not supplied		CERAMIC CHIP 22uF 20% 10V
C0256	Not supplied		CERAMIC CHIP 22uF 20% 10V
C0257	Not supplied		CERAMIC CHIP 22uF 20% 10V
C0258	111802611		CERAMIC CHIP 470PF 10% 25V
C0259	111802611		CERAMIC CHIP 470PF 10% 25V
C0260	111802611		CERAMIC CHIP 470PF 10% 25V
C0269	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C0275	Not supplied		CERAMIC CHIP 1000PF 10% 25V
C1000	111816811		CERAMIC CHIP 1uF 20% 6.3V
C1002	111674911		CERAMIC CHIP 22uF 20% 6.3V
C1003	111816811		CERAMIC CHIP 1uF 20% 6.3V
C1004	111674911		CERAMIC CHIP 22uF 20% 6.3V
C1005	111816811		CERAMIC CHIP 1uF 20% 6.3V
C1006	111816811		CERAMIC CHIP 1uF 20% 6.3V
C1007	111816811		CERAMIC CHIP 1uF 20% 6.3V
C1008	111816811		CERAMIC CHIP 1uF 20% 6.3V
C1009	112097911		CERAMIC CHIP 2.2uF 20% 6.3V
C1010	112097911		CERAMIC CHIP 2.2uF 20% 6.3V
C1012	111674911		CERAMIC CHIP 22uF 20% 6.3V
C1013	111674911		CERAMIC CHIP 22uF 20% 6.3V
C1302	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C1306	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C1308	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C1313	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C1316	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C1321	111803111		CERAMIC CHIP 0.01uF 10% 16V
C1322	111878811		CERAMIC CHIP 100PF 5% 50V
C1324	111803111		CERAMIC CHIP 0.01uF 10% 16V
C1325	111803111		CERAMIC CHIP 0.01uF 10% 16V
C1326	111803111		CERAMIC CHIP 0.01uF 10% 16V
C1401	111817311		CERAMIC CHIP 10uF 20% 6.3V
C1402	111817311		CERAMIC CHIP 10uF 20% 6.3V
C1701	111817311		CERAMIC CHIP 10uF 20% 6.3V
C2000	112215611		CERAMIC CHIP 1uF 20% 10V
C2001	Not supplied		CERAMIC CHIP 2.2uF 20% 4V
C2002	Not supplied		CERAMIC CHIP 2.2uF 20% 4V
C2003	112215611		CERAMIC CHIP 1uF 20% 10V
C2004	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2007	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2011	112215611		CERAMIC CHIP 1uF 20% 10V
C2012	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2013	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C2014	111803411		CERAMIC CHIP 0.1uF 10% 10V
C2015	111803411		CERAMIC CHIP 0.1uF 10% 10V
C2016	111803411		CERAMIC CHIP 0.1uF 10% 10V
C2017	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2018	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2019	111804611		CERAMIC CHIP 4.7uF 10% 25V
C2020	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2021	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2022	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2023	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2024	111674911		CERAMIC CHIP 22uF 20% 6.3V
C2026	111817311		CERAMIC CHIP 10uF 20% 6.3V
C2027	111817311		CERAMIC CHIP 10uF 20% 6.3V
C2028	111817311		CERAMIC CHIP 10uF 20% 6.3V
C2205	111817311		CERAMIC CHIP 10uF 20% 6.3V
C2301	111816811		CERAMIC CHIP 1uF 20% 6.3V

SY-1112 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
C2302	111816811		CERAMIC CHIP 1uF 20% 6.3V
C2303	111816811		CERAMIC CHIP 1uF 20% 6.3V
C2305	111816811		CERAMIC CHIP 1uF 20% 6.3V
C2306	111816811		CERAMIC CHIP 1uF 20% 6.3V
C2307	111816811		CERAMIC CHIP 1uF 20% 6.3V
C2308	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3004	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C3005	Not supplied		CERAMIC CHIP 12PF 5% 50V
C3006	Not supplied		CERAMIC CHIP 10PF 5% 50V
C3007	Not supplied		CERAMIC CHIP 1uF 10% 6.3V
C3101	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C3102	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3103	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3104	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3105	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3106	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C3107	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C3108	112021811		CERAMIC CHIP 1000PF 10% 50V
C3109	112021811		CERAMIC CHIP 1000PF 10% 50V
C3110	112021811		CERAMIC CHIP 1000PF 10% 50V
C3111	112021811		CERAMIC CHIP 1000PF 10% 50V
C3112	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3113	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3114	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C3115	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3116	111817311		CERAMIC CHIP 10uF 20% 6.3V
C3117	Not supplied		CERAMIC CHIP 0.0047uF 10% 6.3V
C3118	111802611		CERAMIC CHIP 470PF 10% 25V
C3119	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C3120	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C3121	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3122	112021811		CERAMIC CHIP 1000PF 10% 50V
C3130	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3131	111816811		CERAMIC CHIP 1uF 20% 6.3V
C3134	112021811		CERAMIC CHIP 1000PF 10% 50V
C3135	112021811		CERAMIC CHIP 1000PF 10% 50V
C3201	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C3501	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C4001	Not supplied		CERAMIC CHIP 0.22uF 10% 6.3V
C4002	Not supplied		CERAMIC CHIP 0.22uF 10% 6.3V
C4004	111816811		CERAMIC CHIP 1uF 20% 6.3V
C4005	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C4006	Not supplied		CERAMIC CHIP 1uF 10% 6.3V
C4007	111816811		CERAMIC CHIP 1uF 20% 6.3V
C4008	112021811		CERAMIC CHIP 1000PF 10% 50V
C4009	112021811		CERAMIC CHIP 1000PF 10% 50V
C4010	112093111		CERAMIC CHIP 47uF 20% 6.3V
C4011	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C4012	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C4013	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C4014	111803411		CERAMIC CHIP 0.1uF 10% 10V
C4015	Not supplied		CERAMIC CHIP 0.0047uF 10% 16V
C4016	Not supplied		CERAMIC CHIP 0.0022uF 10% 6.3V
C4017	Not supplied		CERAMIC CHIP 0.0022uF 10% 6.3V
C4018	111803311	*	CERAMIC CHIP 0.047uF 10% 10V
C4019	111803311	*	CERAMIC CHIP 0.047uF 10% 10V
C4020	111803311	*	CERAMIC CHIP 0.047uF 10% 10V
C4021	111802911		CERAMIC CHIP 0.0022uF 10% 16V
C4022	111802911		CERAMIC CHIP 0.0022uF 10% 16V
C4023	111803311	*	CERAMIC CHIP 0.047uF 10% 10V

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Ref. No. or Q'ty	Part No.	SP	Description
C4024	111803111		CERAMIC CHIP 0.01uF 10% 16V
C4025	111803111		CERAMIC CHIP 0.01uF 10% 16V
C4026	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C4027	Not supplied		CERAMIC CHIP 1uF 10% 6.3V
C4028	112021811		CERAMIC CHIP 1000PF 10% 50V
C4029	112021811		CERAMIC CHIP 1000PF 10% 50V
C4030	112021811		CERAMIC CHIP 1000PF 10% 50V
C4034	111816811		CERAMIC CHIP 1uF 20% 6.3V
C4035	111816811		CERAMIC CHIP 1uF 20% 6.3V
C4039	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C4043	112093111		CERAMIC CHIP 47uF 20% 6.3V
C5650	111817311		CERAMIC CHIP 10uF 20% 6.3V
C5651	112215611		CERAMIC CHIP 1uF 20% 10V
C5652	112215611		CERAMIC CHIP 1uF 20% 10V
C5654	112215611		CERAMIC CHIP 1uF 20% 10V
C5655	111674911		CERAMIC CHIP 22uF 20% 6.3V
C6001	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6004	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6007	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6009	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6011	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6012	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6015	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6016	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6017	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6022	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6033	111826911		CERAMIC CHIP 4.7uF 20% 6.3V
C6081	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6082	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6083	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6099	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6100	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6104	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6105	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6121	111674911		CERAMIC CHIP 22uF 20% 6.3V
C6122	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6126	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6132	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6133	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6134	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6141	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6142	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6144	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6146	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6148	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6149	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6150	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6152	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6153	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6154	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6161	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6162	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6165	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6166	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6168	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6193	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6194	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6195	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6196	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6197	111845811		CERAMIC CHIP 0.1uF 10% 6.3V

SY-1112 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
C6198	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6199	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6200	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6201	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6202	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6203	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6204	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6205	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6206	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6207	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6208	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6209	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6210	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6211	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6212	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6213	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6214	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6215	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6216	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6217	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6218	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6219	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6220	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6221	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6242	111674911		CERAMIC CHIP 22uF 20% 6.3V
C6250	111826911		CERAMIC CHIP 4.7uF 20% 6.3V
C6251	111674911		CERAMIC CHIP 22uF 20% 6.3V
C6259	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6260	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6261	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6262	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6264	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6268	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6281	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6282	111847711		CERAMIC CHIP 2.2uF 10% 6.3V
C6283	112219011		CERAMIC CHIP 1uF 20% 6.3V
C6284	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6285	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6286	111847711		CERAMIC CHIP 2.2uF 10% 6.3V
C6287	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6300	111674911		CERAMIC CHIP 22uF 20% 6.3V
C6301	111674911		CERAMIC CHIP 22uF 20% 6.3V
C6302	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6303	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6320	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6321	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6322	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6323	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6326	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6328	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6329	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6330	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6341	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6343	111875711	*	CERAMIC CHIP 5PF 5% 50V
C6360	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6361	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6362	111816811		CERAMIC CHIP 1uF 20% 6.3V
C6363	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6364	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6365	111845811		CERAMIC CHIP 0.1uF 10% 6.3V

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Ref. No. or Q'ty	Part No.	SP	Description
C6366	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6367	111875711	*	CERAMIC CHIP 5PF 5% 50V
C6368	111875711	*	CERAMIC CHIP 5PF 5% 50V
C6369	111875711	*	CERAMIC CHIP 5PF 5% 50V
C6370	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6371	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6372	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6373	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6374	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6375	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6376	111817311		CERAMIC CHIP 10uF 20% 6.3V
C6377	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6385	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6386	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6387	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6388	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6389	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6390	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6391	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6392	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6393	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6394	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C6395	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C7701	111803311	*	CERAMIC CHIP 0.047uF 10% 10V
C7702	111803311	*	CERAMIC CHIP 0.047uF 10% 10V
C7703	111802911		CERAMIC CHIP 0.0022uF 10% 16V
C7704	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C7705	111802911		CERAMIC CHIP 0.0022uF 10% 16V
C7706	111859611		CERAMIC CHIP 0.1uF 10% 6.3V
C8407	111816811		CERAMIC CHIP 1uF 20% 6.3V
C8412	111816811		CERAMIC CHIP 1uF 20% 6.3V
C8413	Not supplied		CERAMIC CHIP 1uF 10% 6.3V
C8414	111845811		CERAMIC CHIP 0.1uF 10% 6.3V
C8800	112215611		CERAMIC CHIP 1uF 20% 10V
CN0101	Not supplied		CONNECTOR, BOARD TO BOARD 44P
CN0103	184346911		CONNECTOR, FPC (ZIF) 61P
CN0104	184349021		SOCKET, USB CONNECTOR
CN0108	184346911		CONNECTOR, FPC (ZIF) 61P
CN0201	184320911		CONNECTOR, FFC/FPC (ZIF) 39P
CN0204	Not supplied		CONNECTOR, FPC (ZIF) 51P
CN4001	184320911		CONNECTOR, FFC/FPC (ZIF) 39P
CN9000	184312111		CONNECTOR, HDMI (TYPE-D)
D1301	Not supplied		DIODE BAS16L
D1302	Not supplied		DIODE BAS16L
D1303	Not supplied		DIODE BAS16L
D2000	650357801	*	DIODE RB520SM-30T2R
D2001	Not supplied		DIODE RBE05SM20AT2R
D3002	650357301	*	DIODE 1SS400SMT2R
D3003	Not supplied		DIODE RB520CS30L
D3004	Not supplied		DIODE RB520CS30L
D8800	650357301	*	DIODE 1SS400SMT2R
D9000	Not supplied		DIODE RB520CS30L
D9001	Not supplied		DIODE RB520CS30L
ET102	Not supplied		IPS-4039T-01Y901
ET103	Not supplied		IPS-4039T-01Y901
ET104	Not supplied		IPS-4039T-01Y901
F2205	⚠ 152339611		FUSE (0.63A/32V)
F2206	⚠ 152337811		FUSE (2.5A/32V)
F2207	⚠ 152340711		FUSE (1A/32V)

SY-1112 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
FB0201	148126221		FERRITE, EMI (SMD) (1005)
FB1101	Not supplied		FERRITE, EMI (SMD)(0603)
FB1102	148125011		INDUCTOR, FERRITE BEAD (1005)
FB1301	148167021		FERRITE, EMI (SMD)
FB1302	148125011		INDUCTOR, FERRITE BEAD (1005)
FB1303	148167021		FERRITE, EMI (SMD)
FB1304	148167021		FERRITE, EMI (SMD)
FB1305	148167021		FERRITE, EMI (SMD)
FB1306	148167021		FERRITE, EMI (SMD)
FB1307	148167021		FERRITE, EMI (SMD)
FB1701	Not supplied		FERRITE, EMI (SMD)(0603)
FB6020	Not supplied		EMI FERRITE (SMD) (1005)
FB6021	Not supplied		EMI FERRITE (SMD) (1005)
FB6081	Not supplied		EMI FERRITE (SMD) (1005)
FB6121	Not supplied		EMI FERRITE (SMD) (1005)
FB6181	Not supplied		EMI FERRITE (SMD) (1005)
FB6241	Not supplied		EMI FERRITE (SMD) (1005)
FB6361	Not supplied		EMI FERRITE (SMD) (1005)
IC1000	Not supplied		IC RP114K181D-TRB
IC1001	Not supplied		IC NCP6343MFCCT1G
IC1002	Not supplied		IC RP105L091F-TR
IC1003	Not supplied		IC RP105L091F-TR
IC1004	Not supplied		IC NCP6343SFCCT1G
IC2000	Not supplied		IC CY44C031PW-G-ER2E1
IC2002	Not supplied		IC NCP6343AVFCCT1G
IC2003	Not supplied		IC MM3376A50RRE
IC2004	Not supplied		IC PST8623UL
IC2301	Not supplied		IC NX5P2924CUKZ
IC2302	Not supplied		IC RP114K181B-TRB
IC2303	Not supplied		IC RP114K181D-TRB
IC2304	Not supplied		IC RP114K181D-TRB
IC3100	671979301	*	IC AK4695ECB-L
IC3101	Not supplied		IC RP130K281D-TR
IC3501	671504001	*	IC TC7SZ32FU,RSONYJ
IC4001	Not supplied		IC LV8417CS-TE-L-H
IC4002	Not supplied		IC RP114K281D-TRB
IC4003	Not supplied		IC R2J30503LG#W5
IC4004	671222201	*	IC BD6369GUL-E2
IC5650	Not supplied		IC MAX14648DEWA+TG1A
IC6000	Not supplied		IC AMZ16NN03A
IC6001	Not supplied		IC RP114K181D-TRB
IC6280	Not supplied		IC KLM4G1FETE-B041001-002
IC6300	Not supplied		IC LNZ4GNN12A
IC8000	671966301	*	IC BU79T272-E2
IC8400	671683801		IC BU76381GUW-E2
L0101	145764821		COMMON MODE CHOKE COIL
L1000	Not supplied		INDUCTOR 0.47uH
L1001	Not supplied		INDUCTOR 0.47uH
L1701	Not supplied		COMMON MODE CHOKE COIL
L1702	Not supplied		COMMON MODE CHOKE COIL
L1703	Not supplied		COMMON MODE CHOKE COIL
L1704	Not supplied		COMMON MODE CHOKE COIL
L1705	Not supplied		COMMON MODE CHOKE COIL
L1706	Not supplied		COMMON MODE CHOKE COIL
L1707	Not supplied		COMMON MODE CHOKE COIL
L1708	Not supplied		COMMON MODE CHOKE COIL
L2002	Not supplied		INDUCTOR 0.47uH
L2003	Not supplied		INDUCTOR 2.2uH
L2004	Not supplied		INDUCTOR 10uH
L2005	Not supplied		INDUCTOR 1.5uH

SY-1112 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
L2006	Not supplied		INDUCTOR 4.7uH
L2007	Not supplied		INDUCTOR 2.2uH
L2008	Not supplied		INDUCTOR 4.7uH
L6081	140013621	*	INDUCTOR 4.7uH
L6082	140013621	*	INDUCTOR 4.7uH
L6122	140013621	*	INDUCTOR 4.7uH
L6123	140013621	*	INDUCTOR 4.7uH
L6320	140013621	*	INDUCTOR 4.7uH
L6321	140013621	*	INDUCTOR 4.7uH
L6360	140067421	*	INDUCTOR 4.7uH
L6361	140013621	*	INDUCTOR 4.7uH
L6370	140067421	*	INDUCTOR 4.7uH
L6371	140013621	*	INDUCTOR 4.7uH
L6372	140013621	*	INDUCTOR 4.7uH
L9003	146068612		COMMON MODE CHOKE COIL15(0806)
Q0201	655270001	*	TRANSISTOR SSM3K15AMFV,L3SF
Q0202	655270001	*	TRANSISTOR SSM3K15AMFV,L3SF
Q0203	655270001	*	TRANSISTOR SSM3K15AMFV,L3SF
Q1001	Not supplied		TRANSISTOR SSM3K15ACT
Q1002	Not supplied		TRANSISTOR SSM3K15ACT
Q1301	Not supplied		TRANSISTOR SSM3K15ACT
Q2001	655348201		TRANSISTOR SSM3J56MFV
Q2201	655297501		TRANSISTOR RW1A030APT2CR
Q2301	655348201		TRANSISTOR SSM3J56MFV
Q2302	Not supplied		TRANSISTOR SSM3K15ACT
Q2303	655163001		TRANSISTOR RN1102MFV(TL3S
Q2304	Not supplied		TRANSISTOR SSM3K15ACT
Q2305	655163001		TRANSISTOR RN1102MFV(TL3S
Q3001	Not supplied		TRANSISTOR SSM3K15ACT
Q3002	655348201		TRANSISTOR SSM3J56MFV
Q3003	Not supplied		TRANSISTOR SSM3K15ACT
Q3004	655163001		TRANSISTOR RN1102MFV(TL3S
Q3501	655163101		TRANSISTOR RN1104MFV(TL3S
Q3502	872905357		TRANSISTOR RN1902FE
Q4001	655134601		TRANSISTOR 2SK3541T2L
Q4002	872905451		TRANSISTOR UP04116008S0
Q6001	655163001		TRANSISTOR RN1102MFV(TL3S
Q6002	Not supplied		TRANSISTOR SSM3K15ACT
Q6121	655162401	*	TRANSISTOR RN2102MFV(TL3S
Q6122	655163001		TRANSISTOR RN1102MFV(TL3S
Q8800	655163101		TRANSISTOR RN1104MFV(TL3S
Q8801	655287401		TRANSISTOR RW1C025ZPT2CR
Q9000	655120201		TRANSISTOR EM6K1T2R
Q9001	655270001	*	TRANSISTOR SSM3K15AMFV,L3SF
R0107	124068791		METAL CHIP 220 5% 1/20W
R1007	124068391		METAL CHIP 100 5% 1/20W
R1101	124067991		METAL CHIP 47 5% 1/20W
R1108	124068291		METAL CHIP 82 1/20W
R1207	124071491		METAL CHIP 47K 5% 1/20W
R1208	124071491		METAL CHIP 47K 5% 1/20W
R1309	124067991		METAL CHIP 47 5% 1/20W
R1310	124067891		METAL CHIP 33 5% 1/20W
R1311	124068391		METAL CHIP 100 5% 1/20W
R1312	124068191		METAL CHIP 68 5% 1/20W
R1313	124067991		METAL CHIP 47 5% 1/20W
R1314	124067991		METAL CHIP 47 5% 1/20W
R1315	124067991		METAL CHIP 47 5% 1/20W
R1316	124067991		METAL CHIP 47 5% 1/20W
R1318	124068191		METAL CHIP 68 5% 1/20W
R1319	124068191		METAL CHIP 68 5% 1/20W
R1320	124068191		METAL CHIP 68 5% 1/20W

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Ref. No. or Q'ty	Part No.	SP	Description
R1321	124068191		METAL CHIP 68 5% 1/20W
R1322	124068191		METAL CHIP 68 5% 1/20W
R1323	124068191		METAL CHIP 68 5% 1/20W
R1324	124068191		METAL CHIP 68 5% 1/20W
R1325	124068191		METAL CHIP 68 5% 1/20W
R1330	124067891		METAL CHIP 33 5% 1/20W
R1345	Not supplied		METAL CHIP 2.7K 1/20W
R1346	Not supplied		METAL CHIP 2.7K 1/20W
R1350	124070791		METAL CHIP 10K 5% 1/20W
R1357	125729311		METAL CHIP 220K 1% 1/20W
R1359	124068191		METAL CHIP 68 5% 1/20W
R1360	124068191		METAL CHIP 68 5% 1/20W
R1361	124068191		METAL CHIP 68 5% 1/20W
R1362	124068191		METAL CHIP 68 5% 1/20W
R1365	125728511		METAL CHIP 100K 1% 1/20W
R1366	125727711		METAL CHIP 100K 1% 1/20W
R1367	125728511		METAL CHIP 100K 1% 1/20W
R1368	125728511		METAL CHIP 100K 1% 1/20W
R1371	124070791		METAL CHIP 10K 5% 1/20W
R1375	125728511		METAL CHIP 100K 1% 1/20W
R1391	124068391		METAL CHIP 100 5% 1/20W
R1392	124069791		METAL CHIP 1.5K 1/20W
R1393	124071891		METAL CHIP 100K 5% 1/20W
R1394	124071891		METAL CHIP 100K 5% 1/20W
R1395	124071891		METAL CHIP 100K 5% 1/20W
R1406	124072991		METAL CHIP 1M 5% 1/20W
R1407	124070791		METAL CHIP 10K 5% 1/20W
R1409	124069191		METAL CHIP 470 1/20W
R1410	124069991		METAL CHIP 2.2K 5% 1/20W
R1470	124071891		METAL CHIP 100K 5% 1/20W
R2009	Not supplied		METAL CHIP 15 1/16W
R2016	124072991		METAL CHIP 1M 5% 1/20W
R2203	124069591		METAL CHIP 1K 5% 1/20W
R2204	124071891		METAL CHIP 100K 5% 1/20W
R2303	124070791		METAL CHIP 10K 5% 1/20W
R2304	124070391		METAL CHIP 4.7K 5% 1/20W
R2305	124072291		METAL CHIP 220K 5% 1/20W
R2308	124071891		METAL CHIP 100K 5% 1/20W
R2310	124069991		METAL CHIP 2.2K 5% 1/20W
R2311	124071891		METAL CHIP 100K 5% 1/20W
R2313	124069991		METAL CHIP 2.2K 5% 1/20W
R3004	124072991		METAL CHIP 1M 5% 1/20W
R3005	124070391		METAL CHIP 4.7K 5% 1/20W
R3010	124072291		METAL CHIP 220K 5% 1/20W
R3109	124070591		METAL CHIP 6.8K 5% 1/20W
R3110	124070591		METAL CHIP 6.8K 5% 1/20W
R3111	124068791		METAL CHIP 220 5% 1/20W
R3112	124068791		METAL CHIP 220 5% 1/20W
R3113	124072291		METAL CHIP 220K 5% 1/20W
R3115	124067991		METAL CHIP 47 5% 1/20W
R3116	124067991		METAL CHIP 47 5% 1/20W
R3501	124070191		METAL CHIP 3.3K 1/20W
R3502	124068391		METAL CHIP 100 5% 1/20W
R3503	124070191		METAL CHIP 3.3K 1/20W
R3504	124071891		METAL CHIP 100K 5% 1/20W
R4001	124069591		METAL CHIP 1K 5% 1/20W
R4003	124069591		METAL CHIP 1K 5% 1/20W
R4004	125726111		METAL CHIP 10K 1% 1/20W
R4005	Not supplied		METAL CHIP 390 1/20W
R4006	Not supplied		METAL CHIP 150 1/20W

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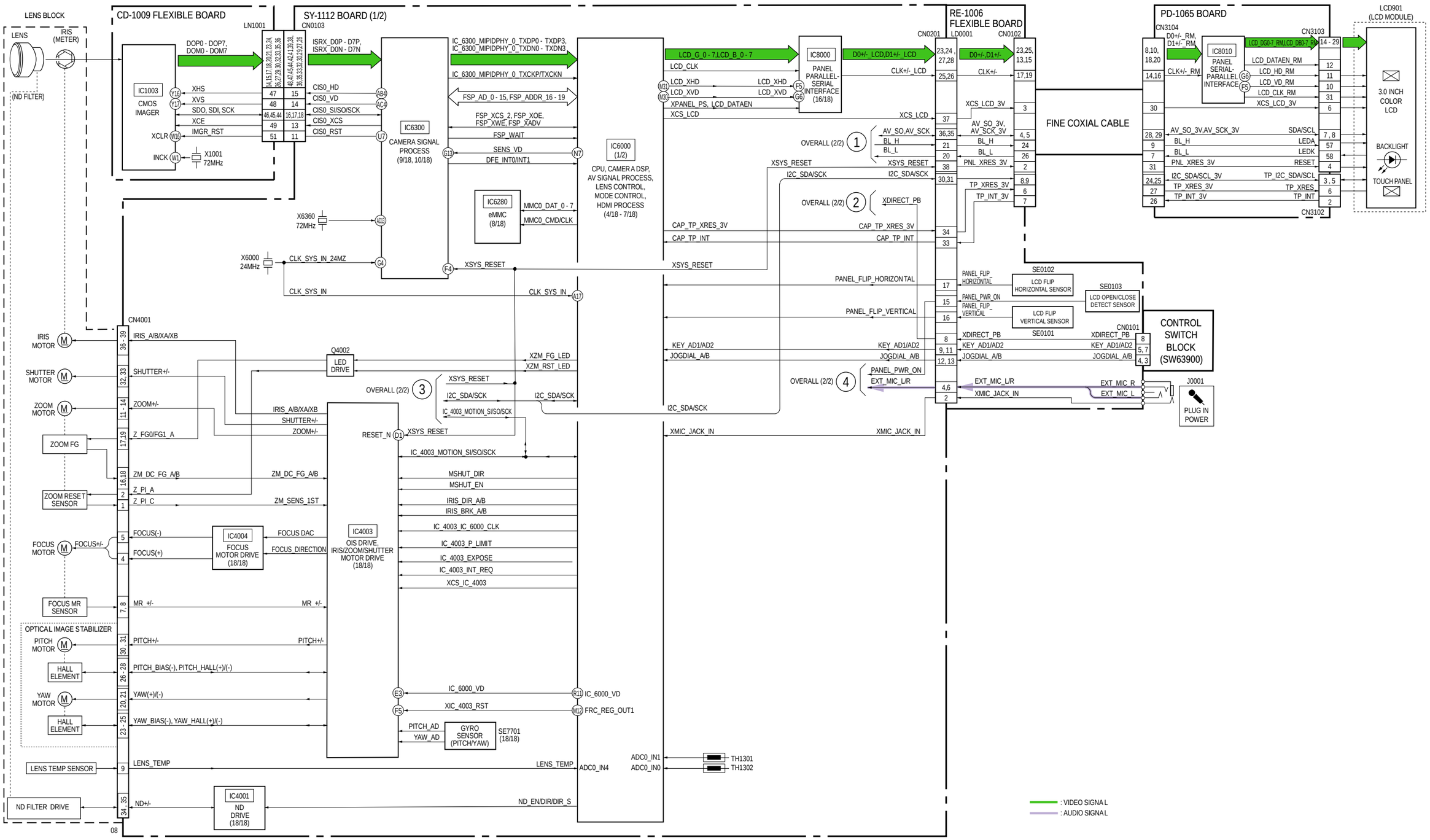
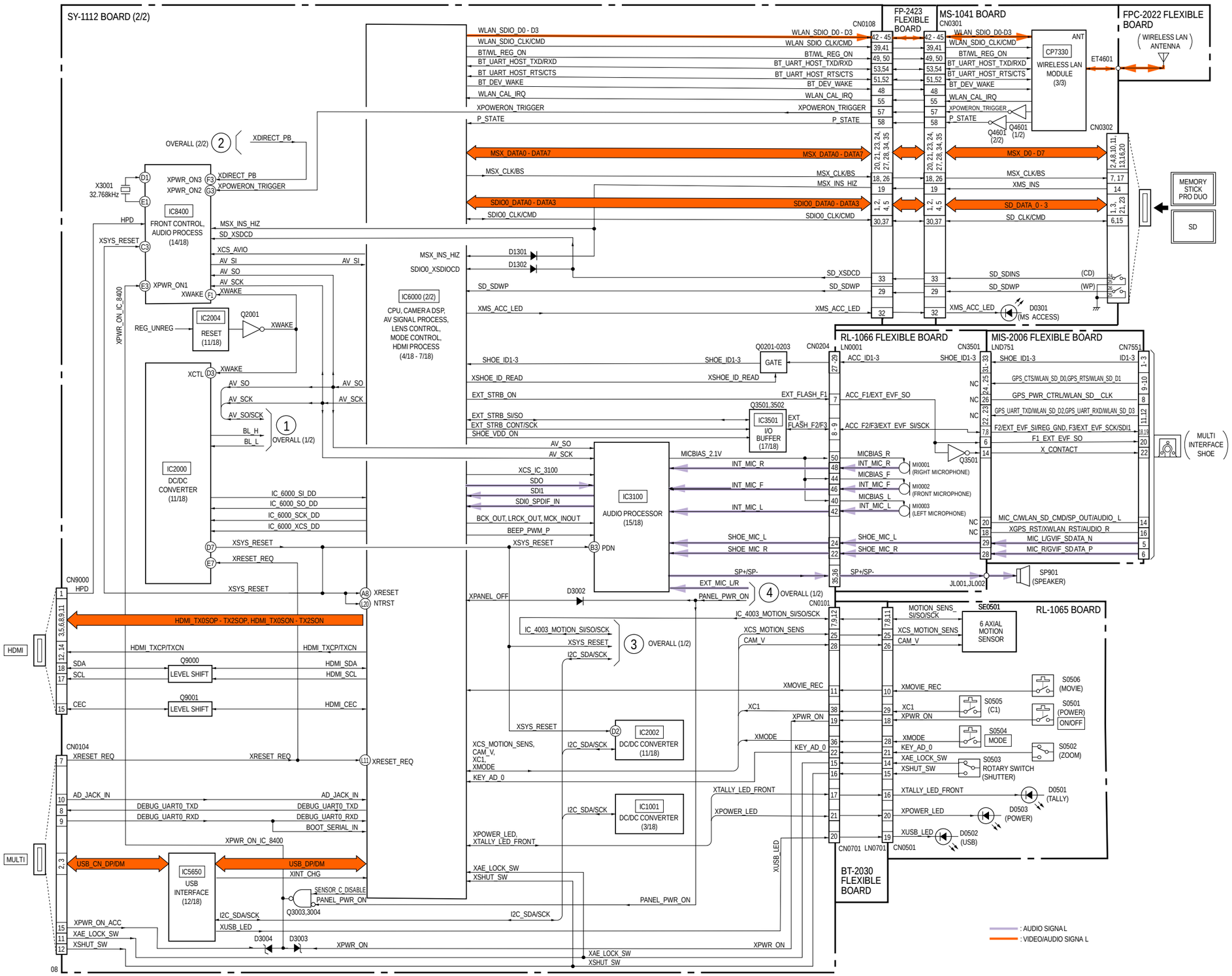
Ref. No. or Q'ty	Part No.	SP	Description
R4007	Not supplied		METAL CHIP 0.47 1/8W
R4008	125727511		METAL CHIP 39K 1% 1/20W
R4009	125727511		METAL CHIP 39K 1% 1/20W
R4010	Not supplied		METAL CHIP 2.7K 1/20W
R4011	Not supplied		METAL CHIP 2.7K 1/20W
R4012	Not supplied		METAL CHIP 6.8K 1/20W
R4013	Not supplied		METAL CHIP 6.8K 1/20W
R4014	124071491		METAL CHIP 47K 5% 1/20W
R4015	124070191		METAL CHIP 3.3K 1/20W
R4016	124070191		METAL CHIP 3.3K 1/20W
R4017	124068791		METAL CHIP 220 5% 1/20W
R4018	124068791		METAL CHIP 220 5% 1/20W
R4019	124068991		METAL CHIP 330 5% 1/20W
R4020	124070791		METAL CHIP 10K 5% 1/20W
R4022	124081211		METAL CHIP 15K 5% 1/20W
R4031	124069591		METAL CHIP 1K 5% 1/20W
R4032	124069591		METAL CHIP 1K 5% 1/20W
R5651	125054311	*	METAL CHIP 100K 1% 1/16W
R6002	124069591		METAL CHIP 1K 5% 1/20W
R6003	124069591		METAL CHIP 1K 5% 1/20W
R6004	124067991		METAL CHIP 47 5% 1/20W
R6006	124071891		METAL CHIP 100K 5% 1/20W
R6007	124069991		METAL CHIP 2.2K 5% 1/20W
R6025	125726311		METAL CHIP 12K 1% 1/20W
R6083	125724111		METAL CHIP 1.5K 1% 1/20W
R6085	125721511	*	METAL CHIP 120 1% 1/20W
R6121	121894511		RES, CHIP 220
R6122	Not supplied		METAL CHIP 200 1% 1/20W
R6183	125722211		METAL CHIP 240 1% 1/20W
R6184	125722211		METAL CHIP 240 1% 1/20W
R6187	125722211		METAL CHIP 240 1% 1/20W
R6188	125722211		METAL CHIP 240 1% 1/20W
R6320	124069591		METAL CHIP 1K 5% 1/20W
R6360	125726911		METAL CHIP 22K 1% 1/20W
R6361	125726111		METAL CHIP 10K 1% 1/20W
R6362	125726311		METAL CHIP 12K 1% 1/20W
R6385	125722211		METAL CHIP 240 1% 1/20W
R6387	125722211		METAL CHIP 240 1% 1/20W
R6388	125726111		METAL CHIP 10K 1% 1/20W
R6389	125726111		METAL CHIP 10K 1% 1/20W
R8800	121896511		METAL CHIP 10K 1/16W
R8801	121898911		METAL CHIP 1M 1/16W
R9000	124071291		METAL CHIP 27K 5% 1/20W
R9009	124070391		METAL CHIP 4.7K 5% 1/20W
R9010	124070391		METAL CHIP 4.7K 5% 1/20W
R9011	124069891		METAL CHIP 1.8K 5% 1/20W
R9012	124069891		METAL CHIP 1.8K 5% 1/20W
SE7701	Not supplied		GSU-C370D/N (PITCH/YAW)
TH1301	180519421		THERMISTOR, NTC (SMD)
TH1302	180519421		THERMISTOR, NTC (SMD)
VR0201	180225121	*	CHIP VARISTOR
X3001	181470211		QUARTZ CRYSTAL UNITS (32.768KHz)
X6000	Not supplied		QUARTZ CRYSTAL OSCILLATOR (24MHz)
X6360	Not supplied		QUARTZ CRYSTAL OSCILLATOR (72MHz)

Section 2
Block Diagrams

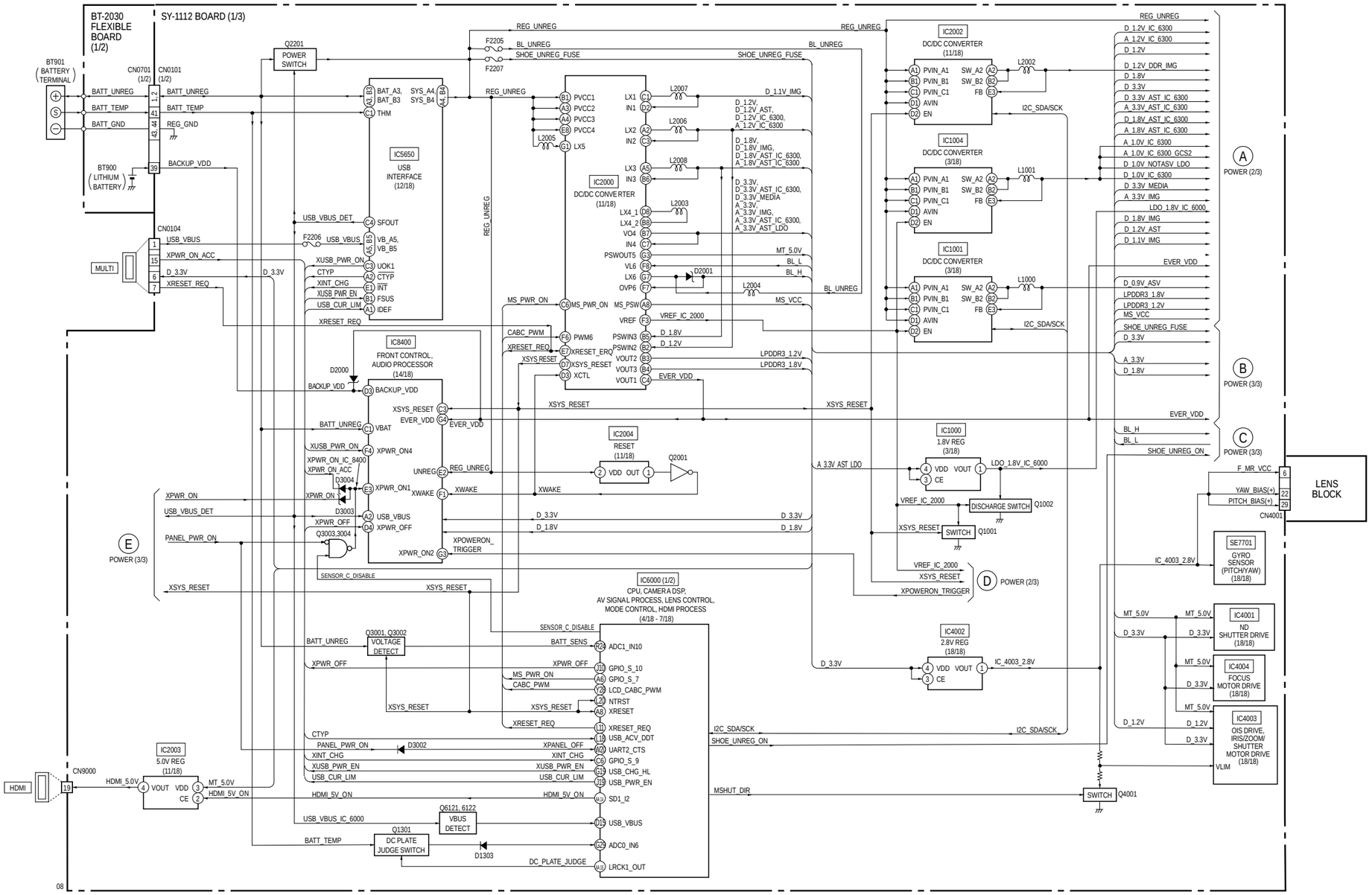
Overall (1/2)



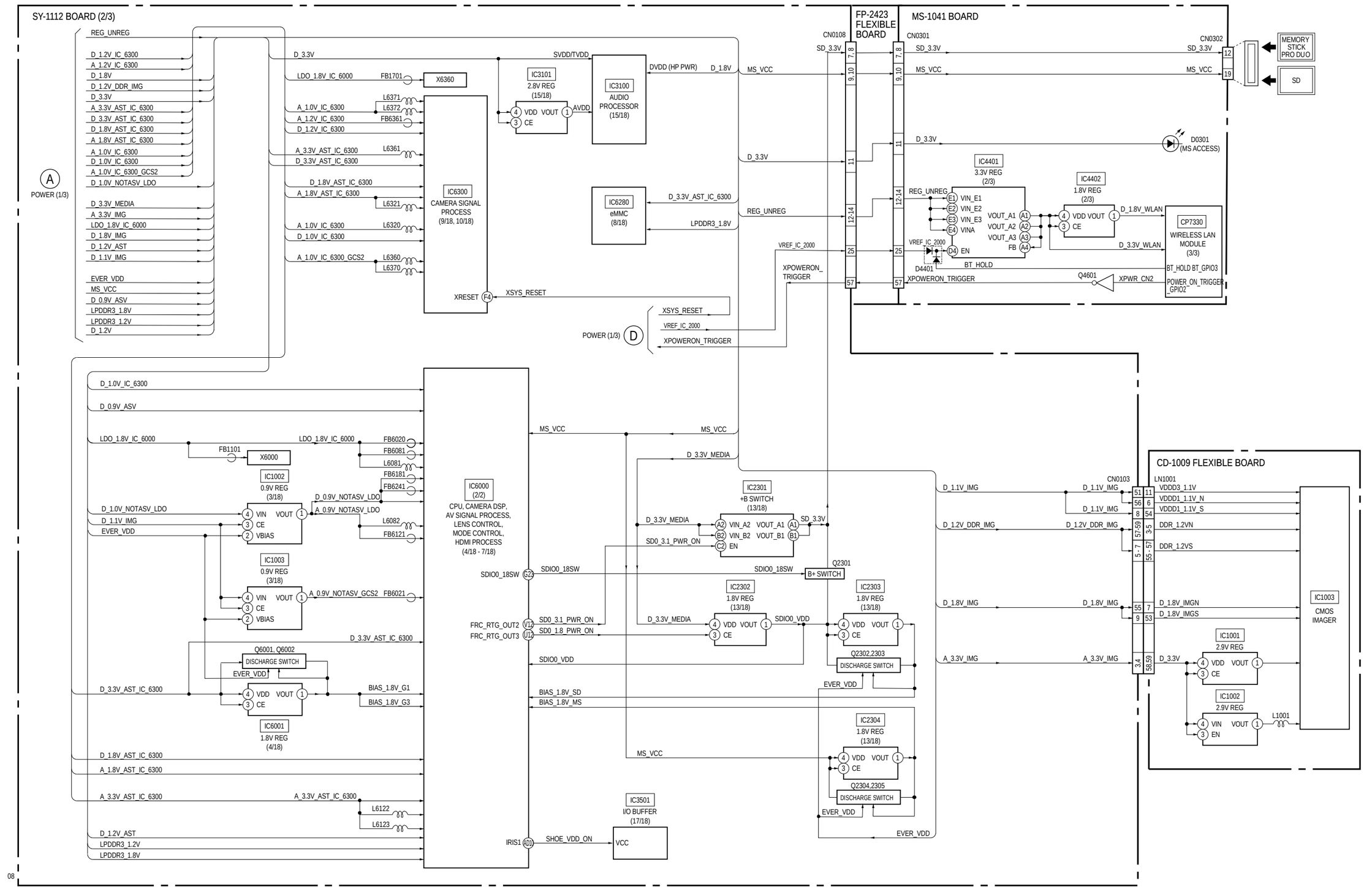
Overall (2/2)



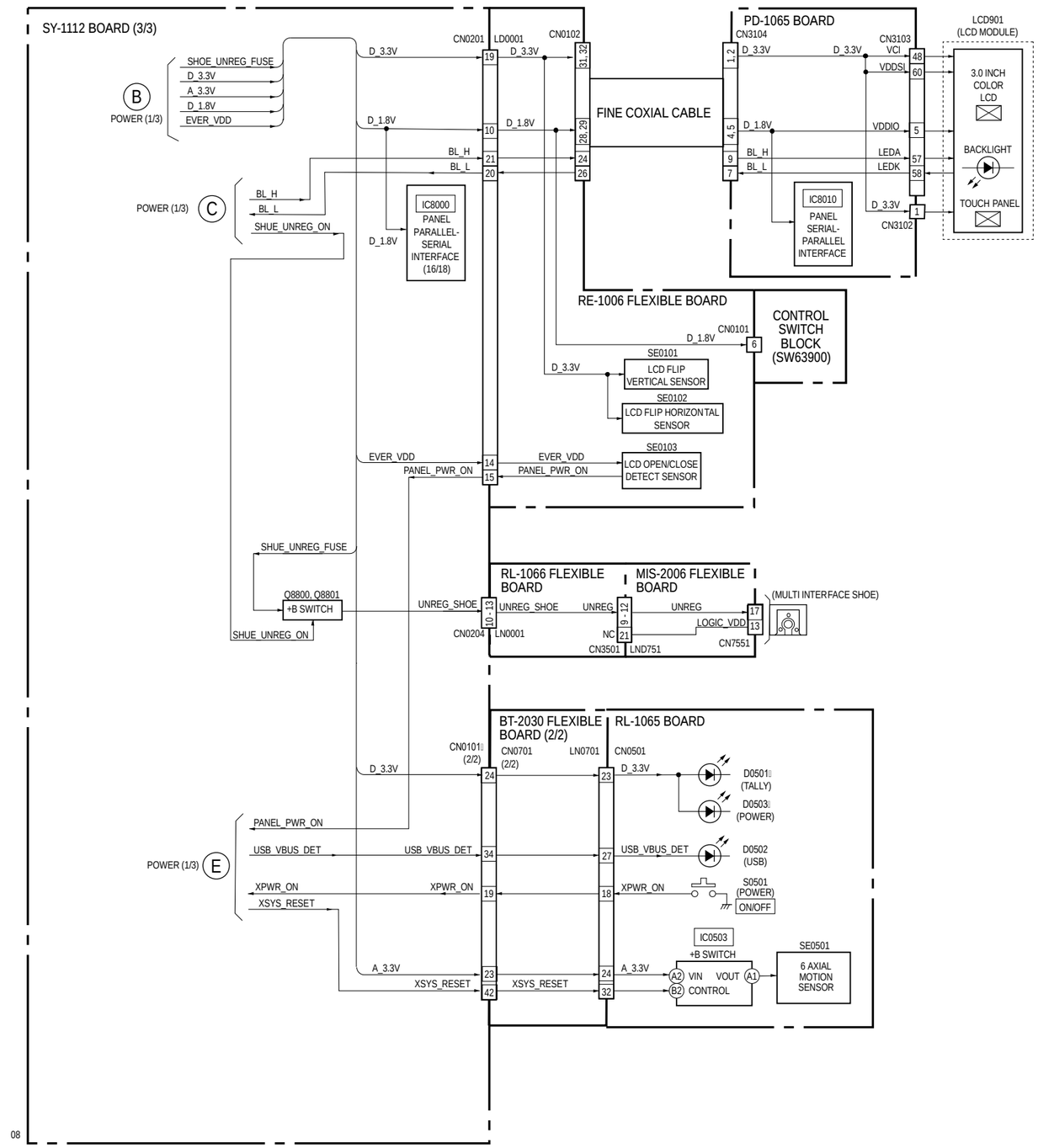
Power (1/3)



Power (2/3)

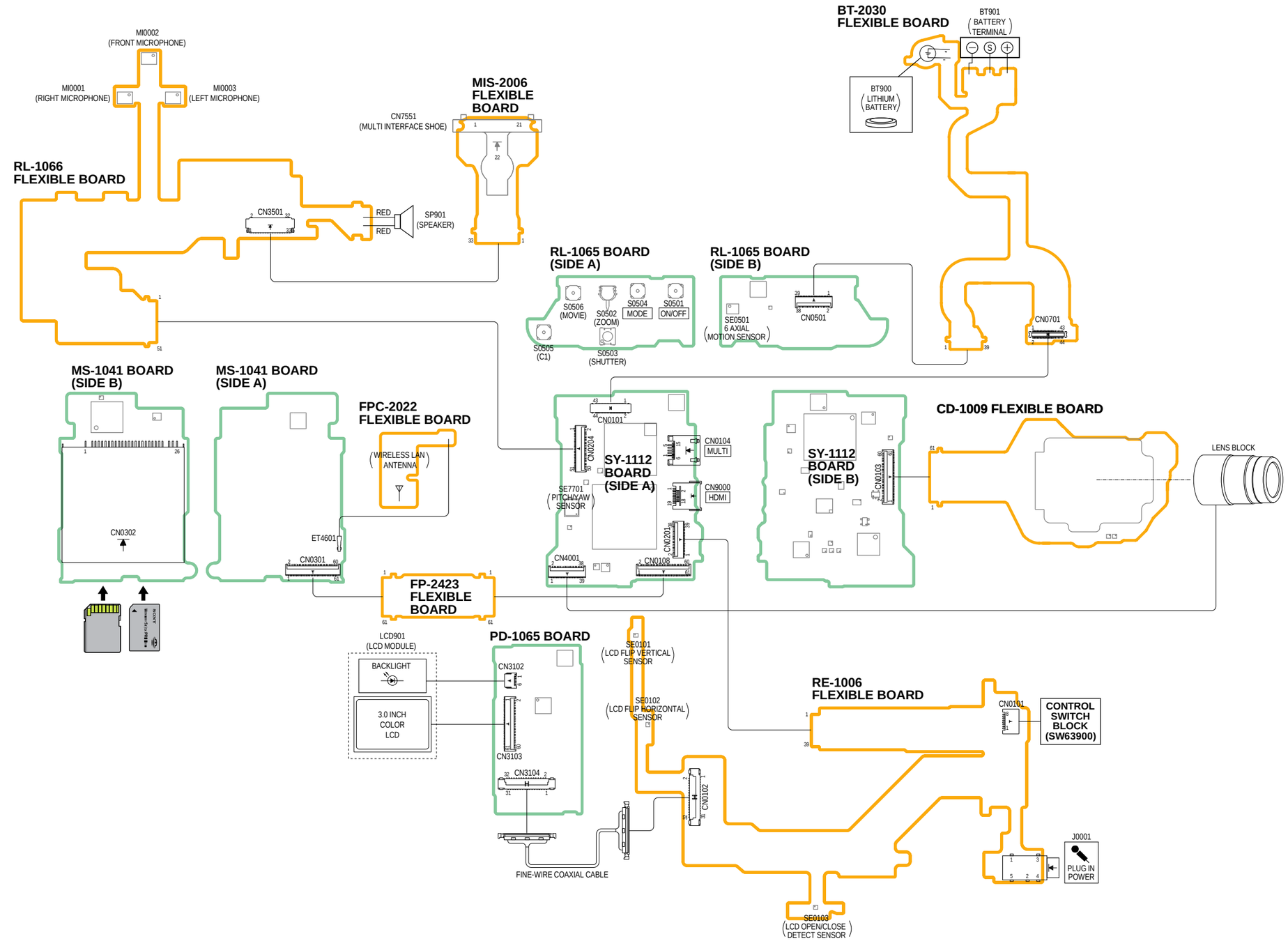


Power (3/3)



Section 3
Frame Schematic Diagrams

Frame Wiring

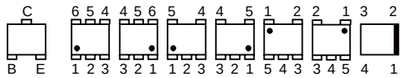


Section 4
Printed Wiring Boards

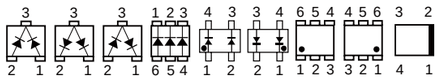
Note For Printed Wiring Boards

- : Uses unleaded solder.
- : Circuit board
- : Flexible board
  Pattern from the side which enables seeing.
- : pattern of the rear side
  (The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation

- Chip parts.
  Transistor



Diode



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.

注意
如果电池更换不当会有爆炸危险。
只能用同样类型或等效类型的电池来更换。
务必按照说明处置用完的电池。

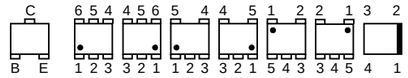
When indicating parts by reference number,
please include the board name.

Precautions for Replacement of Imager
- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
  In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

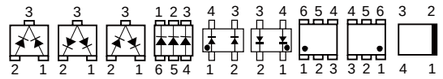
プリント 図ノ ート

- : 無鉛半田を使用し ています。
- : 基板
- : フレキシブル配線板
  見ている面側のパター ン。
- : 裏側のパター ン
  （ 他のパターンについては表示さ れていません）
- スルーホールは省略。
- プリント 図には， 本機で使用し ていない部品が記載さ れている場合があり ます。
- はパネル表示名称。

- Chip parts.
  Transistor



Diode



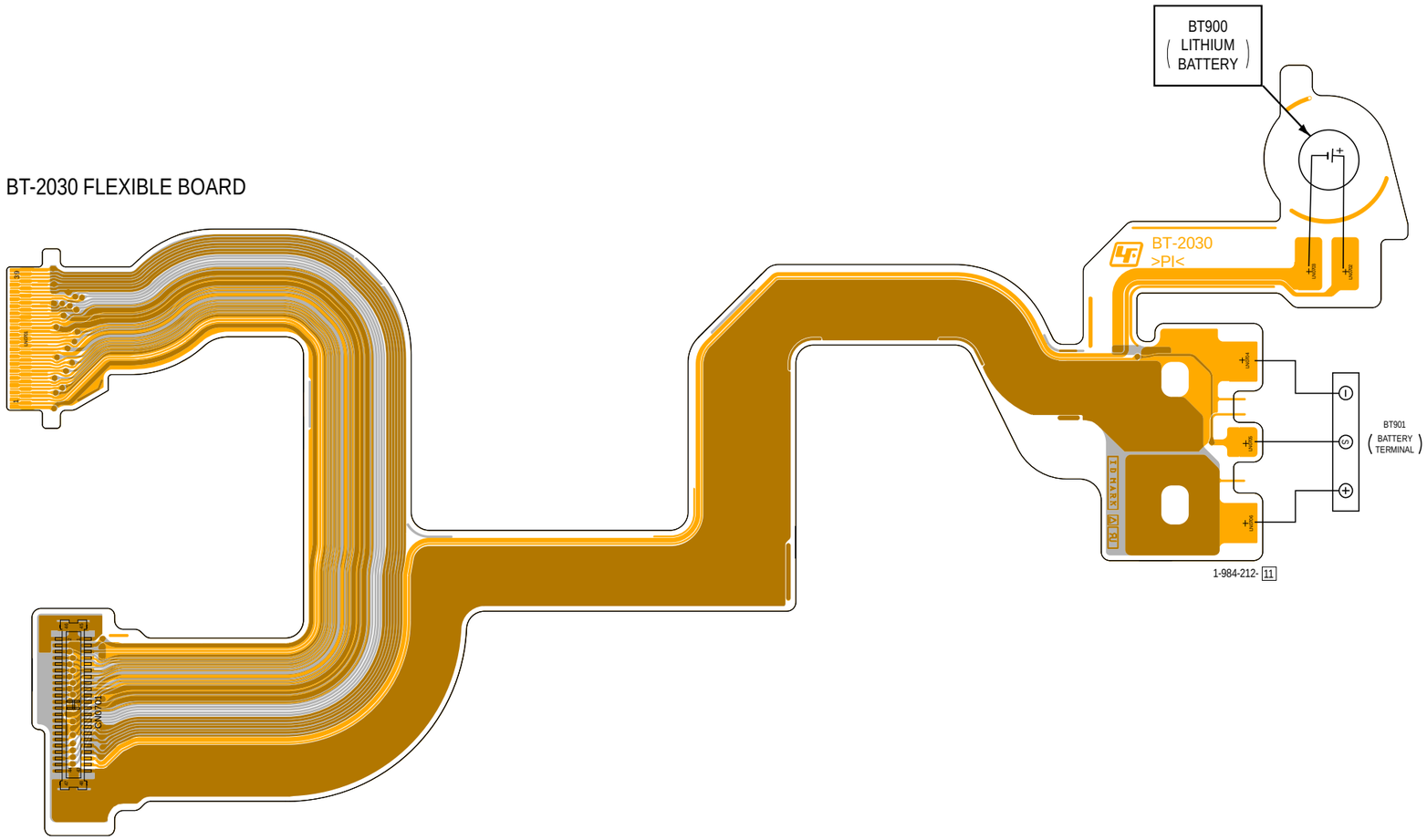
注意
電池の交換は，正しく 行わないと 破裂する 恐れがあり ます。
電池を 交換する 場合には 必ず同じ 型名の電池又は同等品と 交換し てく ださい。
使用済み電池は， 取扱指示に従っ て処分し てく ださい。

お願い
図面番号で部品を指定するときは基板名又はブロックを併せて指定し てく ださい。

イメージャ交換時の注意
- イメージャを 交換し た場合は，カメラ部の全調整を行っ てください。
- イメージャは構造上，静電気により 破壊される 恐れがあるため，MOSICと 同様に注意し て取り 扱っ てください。
  また，受光部にはゴミ の付着，および強い光がはいることのないよう に注意し てください。

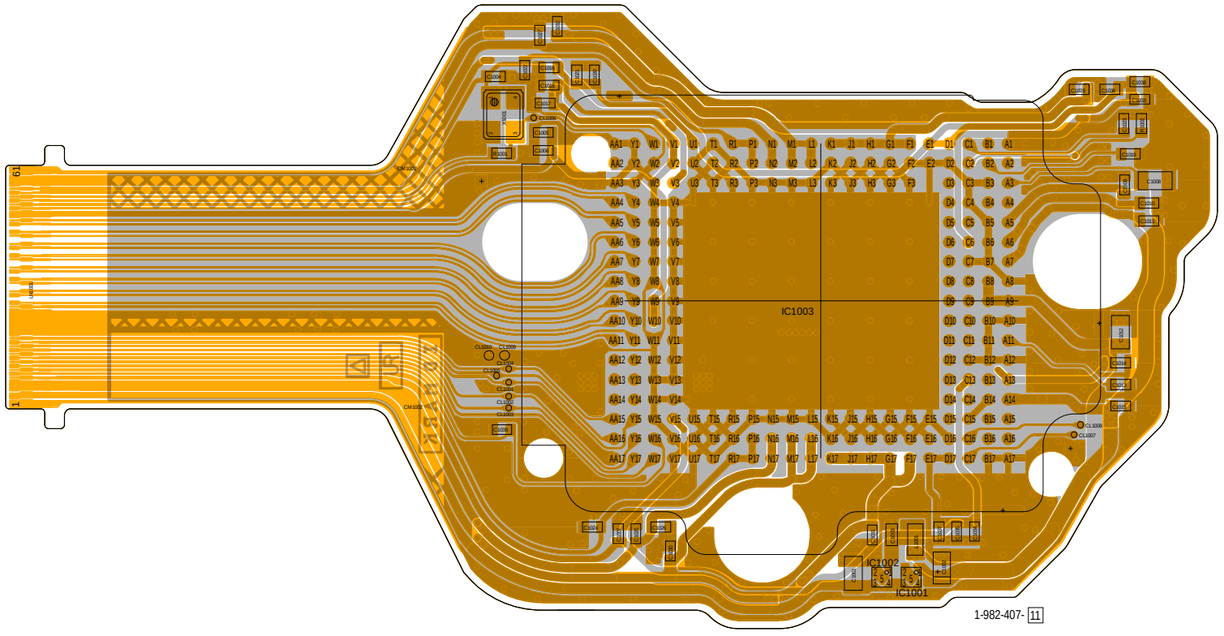
BT-2030

BT-2030 FLEXIBLE BOARD



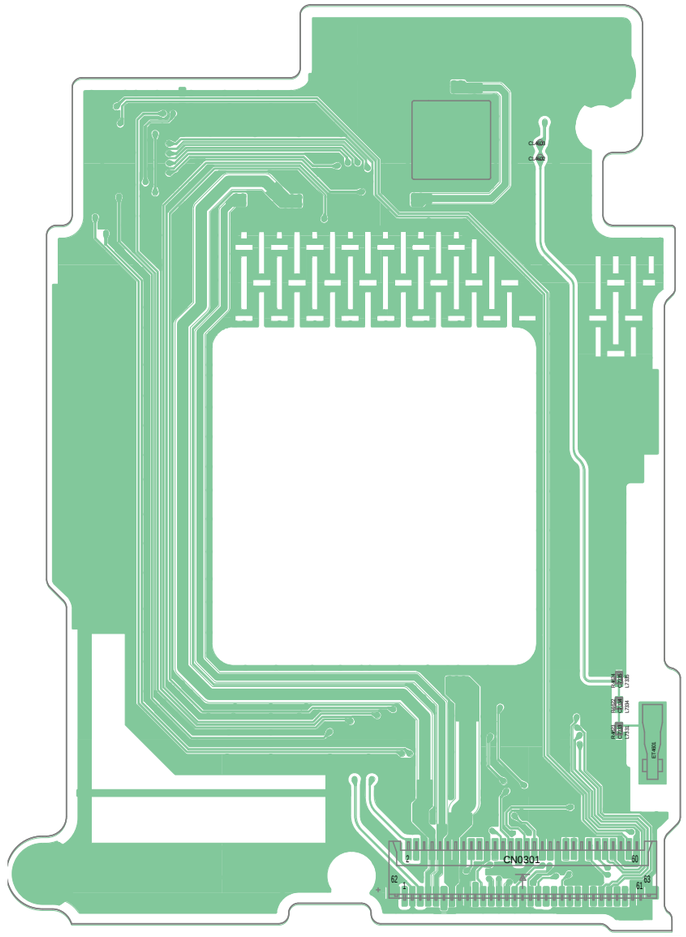
CD-1009

CD-1009 FLEXIBLE BOARD



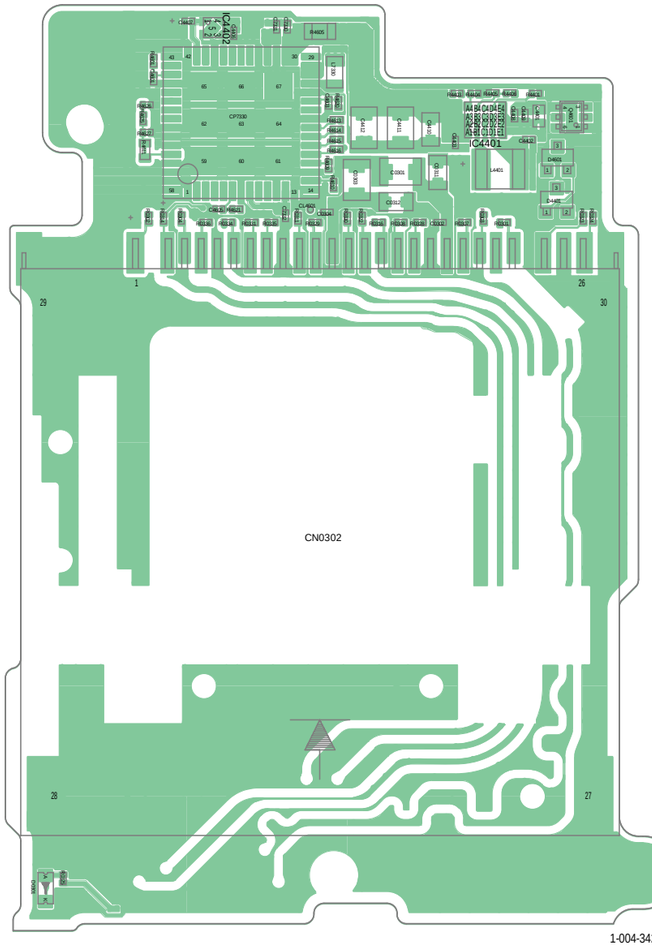
MS-1041

MS-1041 (SIDE A)



1-004-342- 11

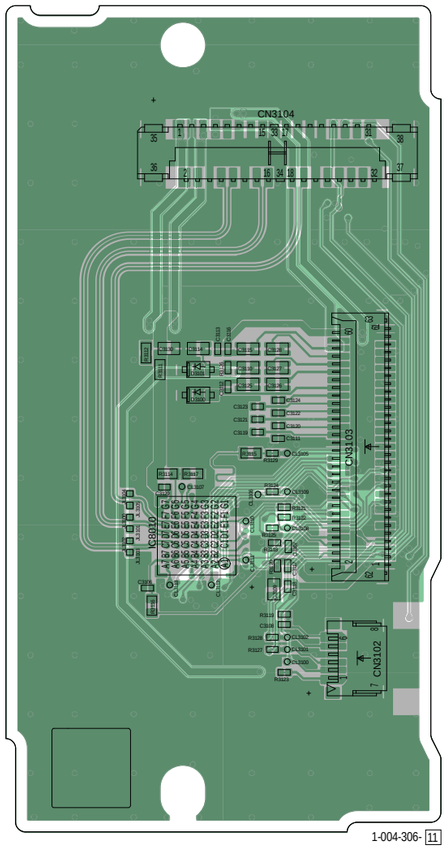
MS-1041 (SIDE B)



1-004-342- 11

PD-1065

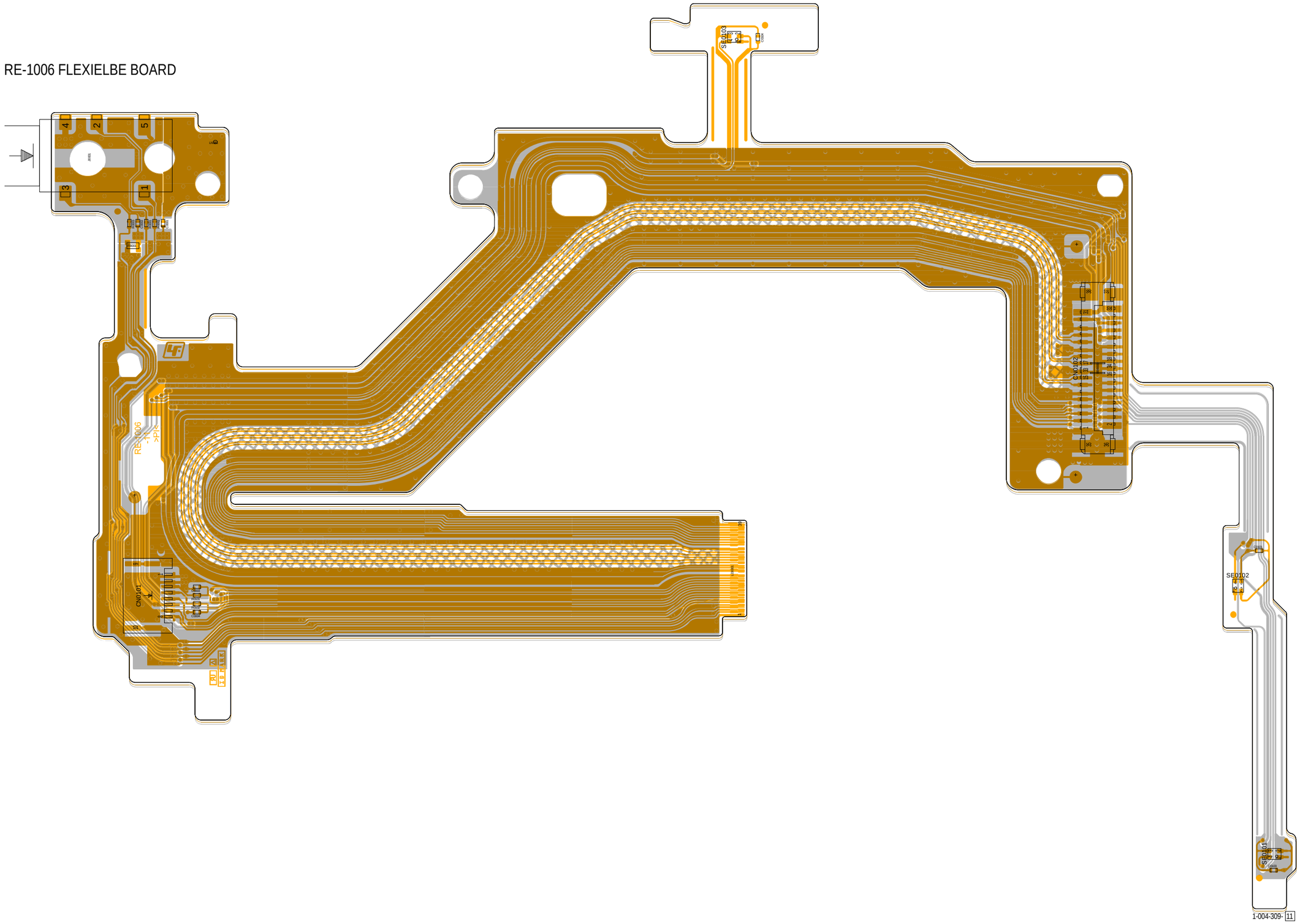
PD-1065 BOARD



1-004-306-11

RE-1006

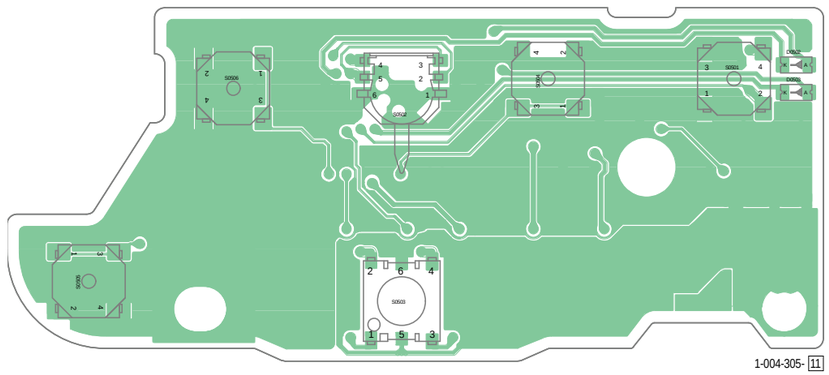
RE-1006 FLEXIELBE BOARD



1-004-309-11

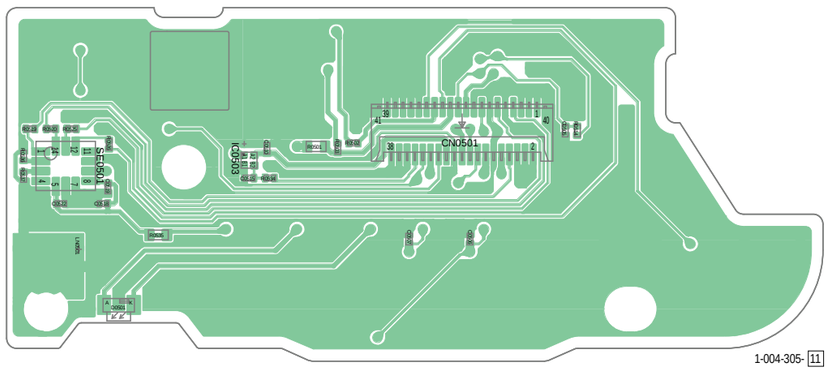
RL-1065

RL-1065 BOARD (SIDE A)



1-004-305- 11

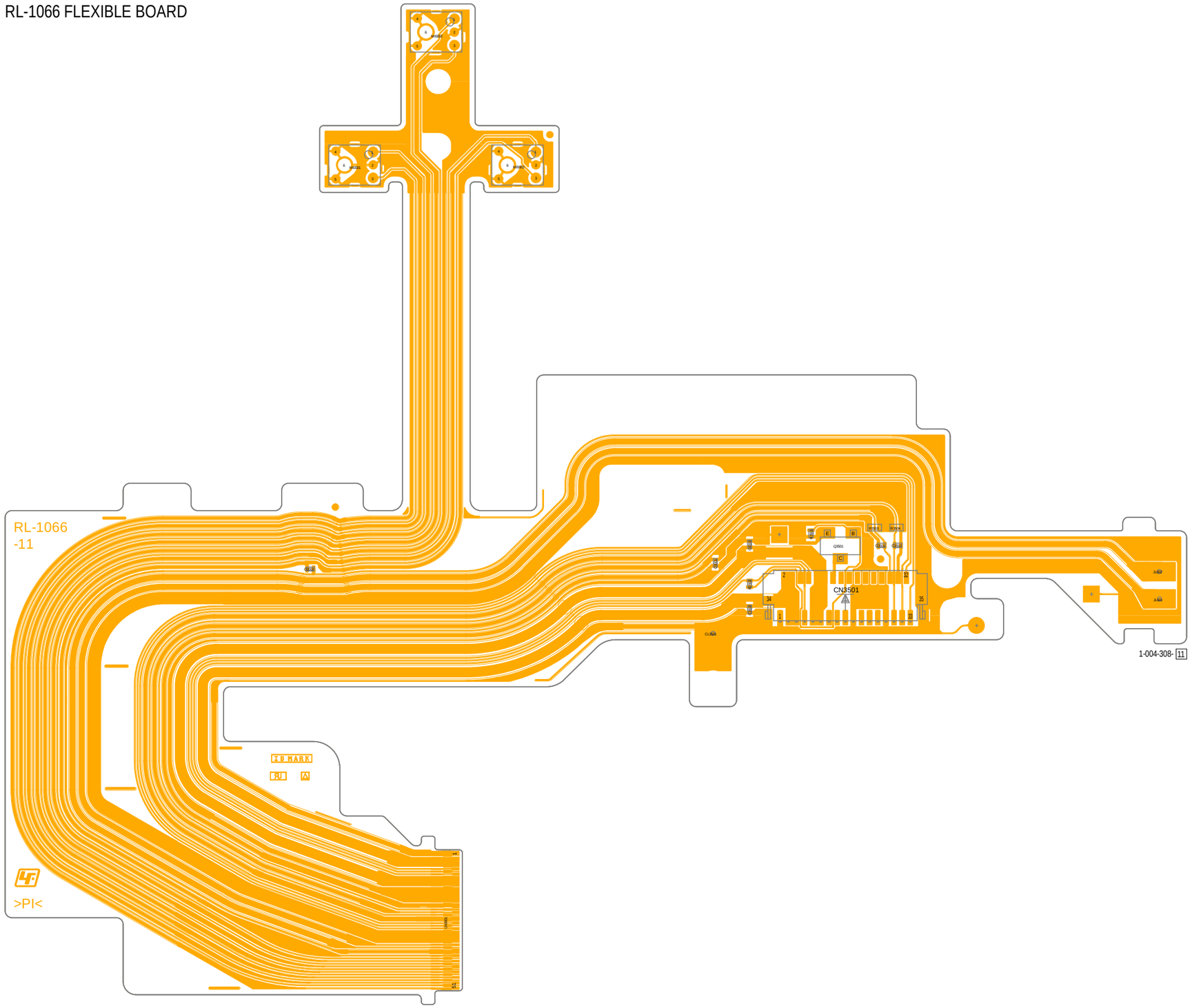
RL-1065 BOARD (SIDE B)



1-004-305- 11

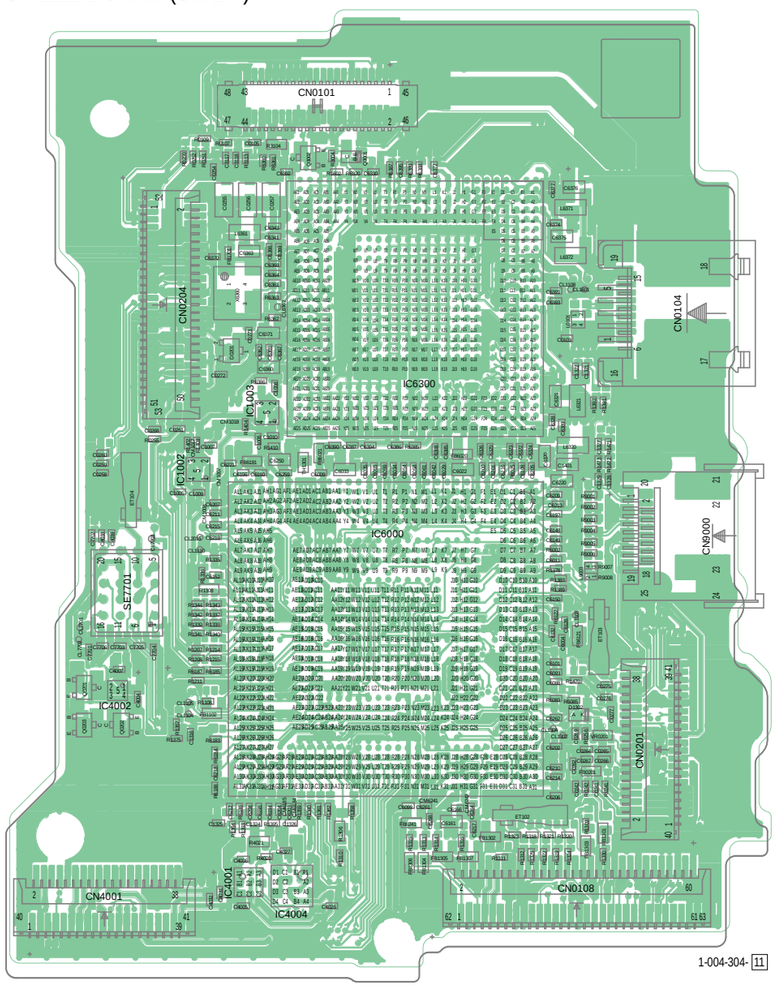
RL-1066

RL-1066 FLEXIBLE BOARD

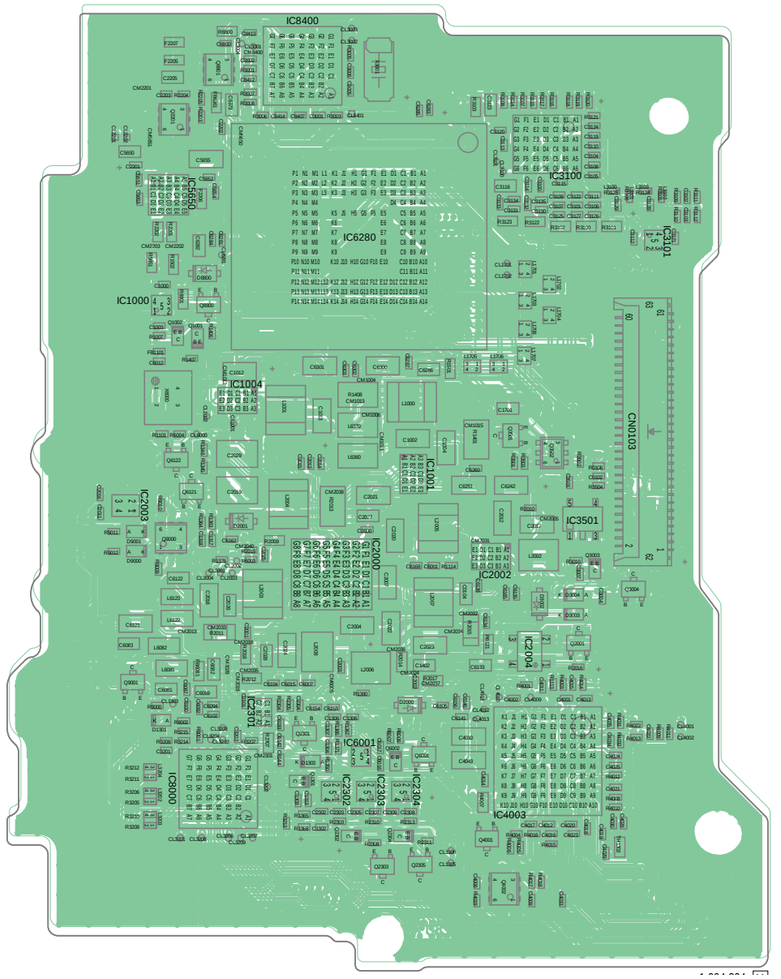


SY-1112

SY-1112 BOARD (SIDE A)



SY-1112 BOARD (SIDE B)



Revision History

Date	History	Contents	S.M. Rev. issued
2020.05	Official Release	—	—

ZV-1 (UC2)
ZV-1 (CE3)
ZV-1 (E32)
ZV-1 (IN5)
ZV-1 (TW6)
ZV-1 (CN1)
ZV-1 (KR2)
ZV-1 (J1)
9-896-889-11

Sony Imaging Products & Solutions Inc.

Printed in Japan
2020. 05 08

SONY

DIGITAL CAMERA

ZV-1

SERVICE MANUAL (LEVEL 2)

1st Edition

⚠ 警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

注意

指定以外の電池に交換すると，破裂する危険があります。
必ず指定の電池に交換してください。
使用済みの電池は，国または地域の法令に従って
処理してください。

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
When you dispose of the battery, you must obey the law in the relative area or country.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.
Lorsque vous mettez la batterie au rebut, vous devez respecter la législation en vigueur dans le pays ou la région où vous vous trouvez.

VORSICHT

Explosionsgefahr bei Verwendung falscher Batterien.
Batterien nur durch den vom Hersteller empfohlenen oder einen gleichwertigen Typ ersetzen.
Wenn Sie die Batterie entsorgen, müssen Sie die Gesetze der jeweiligen Region und des jeweiligen Landes befolgen.

FÖRSIKTIGHET!

Fara för explosion vid felaktigt placerat batteri.
Byt endast mot samma eller likvärdig typ av batteri, enligt tillverkarens rekommendationer.
När du kasserar batteriet ska du följa rådande lagar för regionen eller landet.

PAS PÅ

Fare for eksplosion, hvis batteriet ikke udskiftes korrekt.
Udskift kun med et batteri af samme eller tilsvarende type, som er anbefalet af fabrikanten.
Når du bortskaffer batteriet, skal du følge lovgivningen i det pågældende område eller land.

HUOMIO

Räjähdysvaara, jos akku vaihdetaan virheellisesti.
Vaihda vain samanlaiseen tai vastaavantyyppiseen, valmistajan suosittelemaan akkuun.
Noudata akun hävittämisessä oman maasi tai alueesi lakeja.

FORSIKTIG

Eksplosjonsfare hvis feil type batteri settes i.
Bytt ut kun med samme type eller tilsvarende anbefalt av produsenten.
Kasser batteriet i henhold til gjeldende avfallsregler.

注意

如果更换的电池不正确，就会有爆炸的危险。
只更换同一类型或制造商推荐的电池型号。
处理电池时，必须遵守相关地区或国家的法律。

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. In case a virus affected unit was found during service, contact your Service Headquarters.

注意:
修理時に使用するパソコンは，ウィルス検出ソフトが常にアップデートを行っているパソコンを使用してください。もし，修理を行うセット，もしくはパソコンがウィルスに感染している事が判明した場合は，ソニーグループ内は社内技術相談窓口に，特約店様は特約店様専用電話窓口（修理窓口）にご相談ください。

SAFETY CHECK-OUT

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

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Set the soldering iron tip temperature to 350 °C approximately.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

This unit uses unleaded solder.
Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Be careful to the following points to solder or unsolder.

- Set the soldering iron tip temperature to 350 °C approximately.
  If cannot control temperature, solder/unsolder at high temperature for a short time.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Be sure to control soldering iron tips used for unleaded solder and those for leaded solder so they are managed separately. Mixing unleaded solder and leaded solder will cause detachment phenomenon.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK 0 OR DOTTED LINE WITH MARK 0 ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE 0 SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

サービス，点検時には次のことにご注意ください。

1. 注意事項をお守りください。
   サービスのとき特に注意を要する個所については，キャビネット，シャーシ，部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守り下さい。
2. 指定部品のご使用を
   セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は，使用されていたものと同じ特性の部品を使用して下さい。特に回路図，部品表に0 印で指定されている安全上重要な部品は必ず指定のものをご使用下さい。
3. 部品の取付けや配線の引きまわしはもとどおりに
   安全上，チューブやテープなどの絶縁材料を使用したり，プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパによって発熱部品や高圧部品に接近しないよう配慮されていますので，これらは必ずもとどおりにして下さい。
4. サービス後は安全点検を
   サービスのために取外したネジ，部品，配線がもとどおりになっているか，またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し，安全性が確保されていることを確認して下さい。
5. チップ部品交換時の注意
   - 取外した部品は再使用しないで下さい。
   - タンタルコンデンサのマイナス側は熱に弱いため交換時は注意して下さい。
6. フレキシブルプリント基板の取扱いについて
   - 半田こてのこて先温度は約350℃に設定してください。
   - 同一パターンに何度もコテ先を当てないで下さい。（3回以内）
   - パターンに力が加わらないよう注意して下さい。

無鉛半田について

本機には無鉛半田が使用されています。
無鉛半田を使用している基板には，無鉛（Lead Free）を意味するレッドフリーマークがプリントされています。
（注意：□基板サイズによっては，無鉛半田を使用していてもレッドフリーマークがプリントされていないものがあります）

 ：レッドフリーマーク

無鉛半田は，下記の点に注意して使用してください。

- 半田こてのこて先温度は約350℃に設定してください。
  温度調節が無理な場合は，高温短時間で作業を行ってください。
  注意：半田こてを長く当てすぎると，基板のパターン（銅箔）がはがれてしまうことがありますので，注意してください。また，従来の半田よりも粘性が強いため，IC端子などが半田ブリッジしないように注意してください。
- 半田こてのこて先は，必ず無鉛半田用と有鉛半田用に分けて管理してください。
  無鉛半田と有鉛半田が混在すると剥離現象が発生してしまいます。

Self Diagnosis Supported model

Specifications

Camera

[System]
Camera Type
Digital Camera

[Image sensor]
Image format
13.2 mm × 8.8 mm (1.0 type), CMOS image sensor

Effective pixel number of camera
Approx. 20 100 000 pixels

Total pixel number of camera:
Approx. 21 000 000 pixels

[Lens]
ZEISS Vario-Sonnar T∗
f=9.4 mm – 25.7 mm
Angle of View: 84° - 34°
(35 mm format equivalent: 24 mm - 70 mm)
F1.8 (W) – F2.8 (T)

[SteadyShot]
System
Optical

[Auto focus system]
Detection system
Phase detection system/ Contrast detection system

[Monitor]
LCD monitor
7.5 cm (3.0 type) TFT drive, touch panel

Total number of dots
921 600 dots

[Recording format]
File format
JPEG (DCF Ver.2.0, Exif Ver.2.31, MPF Baseline) compliant,
RAW (Sony ARW 2.3 format)

Movie (XAVC S format)
MPEG-4 AVC/H.264 XAVC S ver.1.0 format compliant
Video: MPEG-4 AVC/H.264
Audio: LPCM 2ch (48kHz 16bit)

Movie (AVCHD format)
AVCHD format Ver. 2.0 compatible
Video: MPEG-4 AVC/H.264
Audio: Dolby Digital 2ch, equipped with Dolby Digital Stereo Creator
- Manufactured under license from Dolby Laboratories.

[Recording media]
Memory Stick, SD cards

[Input/output terminals]
Multi/Micro USB Terminal*
Hi-Speed USB (USB 2.0)
*Supports Micro USB compatible devices.

HDMI
HDMI type D micro jack

(Microphone) terminal
Ø3.5 mm Stereo mini jack

[Power, general]
Rated input
3.6 V ⎓, 2.1 W

Operating temperature
0 to 40°C (32 to 104°F)

Storage temperature
–20 to 55°C (–4 to 131°F)

Dimensions (W/H/D) (Approx.)
105.5 × 60.0 × 43.5 mm
4 1/4 × 2 3/8 × 1 3/4 in.)

Mass (Approx.)
294 g (10.4 oz)
(including battery pack, SD card)

Microphone
Stereo

Speaker
Monaural

Exif Print
Compatible

DPOF
Compatible

PRINT Image Matching III
Compatible

[Wireless LAN]
Supported format
IEEE 802.11 b/g/n

Frequency band
2.4 GHz

Security
WEP/WPA-PSK/WPA2-PSK

Connection method
Wi-Fi Protected Setup™ (WPS)/Manual

Access method
Infrastructure mode

[Bluetooth communications]
Bluetooth standard Ver. 4.1

Frequency band
2.4 GHz

Rechargeable battery pack NP-BX1
Rated voltage
3.6 V ⎓

Design and specifications are subject to change without notice.

自己診断搭載機種

概略仕様

本体

[形式]
カメラタイプ
デジタルカメラ

[撮像部]
撮像素子
13.2 mm×8.8 mm (1.0型)、
CMOSイメージセンサー

カメラ有効画素数
約20 100 000画素

総画素数
約21 000 000画素

[レンズ]
ZEISSバリオ・ゾナーT＊
f=9.4 mm ～ 25.7 mm
(画角84°～34° (35 mm判
相当24 mm ～ 70 mm))、
F1.8 (W) ～F2.8 (T)

[手ブレ補正]
形式
光学式

[オートフォーカス]
検出方式
位相差検出方式/
コントラスト検出方式

[モニター]
液晶モニター
7.5 cm (3.0型)、TFT駆動、
タッチパネル

ドット数
921 600ドット

[記録方式]
静止画記録方式
JPEG (DCF Ver.2.0、Exif Ver.2.31、
MPF Baseline) 準拠、
RAW (ソニーARW 2.3フォーマット)

動画記録方式 (XAVC S方式)
MPEG-4 AVC/H.264 XAVC S ver.1.0規格準拠
映像：MPEG-4 AVC/H.264
音声：LPCM 2ch (48kHz 16bit)

動画記録方式 (AVCHD方式)
AVCHD規格 Ver2.0準拠
映像：MPEG-4 AVC/H.264
音声：Dolby Digital 2ch ドルビーデジタル
ステレオクリエーター搭載
- ドルビーラボラトリーズからの実施権に基づき製造されています。

[記録メディア]
メモリースティック、SD カード

[入/出力端子]
マルチ/マイクロUSB端子＊
USB通信 Hi-Speed USB (USB 2.0)
*この端子にはマイクロUSB規格に対応した機器をつなぐことができます。

HDMI端子
HDMIタイプD マイクロ端子

(マイク) 端子
Ø3.5 mmステレオミニジャック

[電源・その他]

定格
3.6 V ⎓、2.1 W

動作温度
0～40℃

保存温度
－20～55℃

外形寸法 (幅×高さ×奥行き) (約)
105.5×60.0×43.5 mm

質量
約294 g (バッテリー、SDカードを含む)

マイクロホン
ステレオ

スピーカー
モノラル

Exif Print
対応

DPOF
対応

PRINT Image Matching III
対応

[ワイヤレスLAN]
対応規格
IEEE 802.11 b/g/n

使用周波数帯
2.4 GHz帯

セキュリティ
WEP/WPA-PSK/WPA2-PSK

接続方式
Wi-Fi Protected Setup™ (WPS)/マニュアル

アクセス方式
インフラストラクチャーモード

[Bluetooth通信]
Bluetooth標準規格Ver. 4.1

使用周波数帯
2.4 GHz帯

リチャージャブルバッテリーパック NP-BX1
定格
3.6 V ⎓

本機や付属品の仕様および外観は、
改良のため予告なく変更することが
ありますが、ご了承ください。

Model Information

Model	ZV-1	
Destination	UC2, TW6, KR2, J1	CE3, E32, IN5, CN1
Color system	NTSC	PAL
GPS	-	-
Wi-Fi	✓	✓
NFC	-	-

Table of Contents

Manual Structure

Purpose of this manual

This manual describes the information items that premise the service based on the components parts assuming use of system and service engineers.

Related manuals

Besides this manual, the following manuals are available.

- Startup Guide (Supplied with this unit)
- Help Guide (Web manual)
  Refer to “Help Guide” for in-depth instructions on the many functions of the camera.
- Adjust Manual (Available on request)
  The adjustment software is necessary for adjustment and various checking of this unit for the service.

目次

このマニュアルについて

本書の目的

本書は，システムエンジニアやサービスエンジニアの方々にご使用いただくことを想定し，本機の保守に関する情報，部品レベルまでのサービスを前提とした情報を記載しています。

関連マニュアル

本機には，この「サービスマニュアル」のほかに，下記のマニュアルが用意されています。

- スタートガイド（本機に付属）
- ヘルプガイド（Web 取扱説明書）
  Web 上のマニュアル「ヘルプガイド」もご覧ください。パソコンやスマートフォンでご覧いただけます。
- アジャストマニュアル（別途用意）
  本機の調整および各種動作確認を行うのに必要なサービス用の調整ソフトウェアです。

Section 1
Trouble Shooting

1-1. Self-diagnosis Function

1-1-1. Self-diagnosis Function

If an error occurs in this unit, the self-diagnosis function starts working and a code consisting of one alphabet and a fourdigit number appears on the LCD. Classification of persons in charge, classification of faulty blocks, and details of errors can be checked by referring to this indication of five alphanumeric characters in the self-diagnosis code table.
The history of past errors can be checked in “Usage and Diag record” on the DATA tab of the Adjust Manual.
The self-diagnosis function is also described in the operation manual.

1-1-2. Note on the Function of Boards

The boards and functions used in this model are mentioned in the following table.

Board	Function
BT board	Battery
CD board	Imager
MIS board	Multi interface shoe
MS board	Wireless LAN module, Card slot
PD board	LCD
RE board	LCD rotation detect sensor, LCD open/close detect sensor
RL-1065 board	6 axial acceleration sensor, Switch
RL-1066 board	Microphone, Speaker
SY board	PITCH/YAW angular velocity sensor, Lens control, CPU, power control, Other function

1-1-3. Self-diagnosis Code Table

Self-diagnosis Code			Symptom/State	Correction
Repaired by:	Block Function	Detailed Code		
C	13	01	Memory card is unformatted or memory card is broken.	Format the memory card. Insert a new memory card.
C	32	01	Trouble with hardware	Turn power off and turn power on again.
C	32	60	Difficult to adjust focus (Cannot initialize focus)	Turn power off and turn power on again. When this error is not cleared, the focus control signal for the lens block may be faulty. Check whether this error is due to the lens or the board. Replace the faulty lens or board.
E	41	00	Abnormality of the wireless LAN module or CPU	The peripheral circuit of between CPU and wireless LAN module may be faulty. Replace the board that contains this peripheral circuit.
E	61	00	Difficult to adjust focus (Cannot initialize focus)	Turn power off and turn power on again. When this error is not cleared, the focus control signal for the lens block may be faulty. Check whether this error is due to the lens or the board. Replace the faulty lens or board.
E	61	10	Zoom operations fault (Cannot initialize zoom lens)	Turn power off and turn power on again. When this error is not cleared, operate the zoom lever and check following items. • When zooming is performed, the zoom control signal for the lens block may be faulty. • When zooming is not performed, the zoom motor drive circuit may be faulty. Check whether this error is due to the lens or the board. Replace the faulty lens or board.

Continued

Self-diagnosis Code			Symptom/State	Correction
Repaired by:	Block Function	Detailed Code		
E	61	30	Reset position detection error on the stepper iris initializing	Turn the power on to open lens barrier. Disconnect the battery or power cord, and then connect again. And confirm that the iris blades in lens are working. If iris blades do not work, check the iris motor drive circuit in lens drive block. If iris blades work normally, confirm that they are closing completely and confirm following items. • Case of the iris blades do not close normally. Replace the lens block. • Case of "E: 61: 30" is appeared and iris blades closed completely. Confirm that communication with lens block is normal. • Case of LCD is not displayed normally, check that connection between imager board and main board. • Case of LCD is displayed normally, replace the lens block.
E	62	00	Steadyshot does not work well. (With PITCH angular velocity sensor output stopped)	The peripheral circuit of the PITCH angular velocity sensor may be faulty. Replace the board that contains this peripheral circuit.
E	62	01	Steadyshot does not work well. (With YAW angular velocity sensor output stopped)	The peripheral circuit of the YAW angular velocity sensor may be faulty. Replace the board that contains this peripheral circuit.
E	62	02	Abnormality of IC for steadyshot.	Check signal line connections from CPU through steadyshot IC to PITCH/YAW drive. When there is no problem with the connections, replace the board that contains this peripheral circuit.
E	62	04	Image vibration correction during steadyshot does not work.	The image vibration angular velocity sensor peripheral circuit may be faulty. Replace the board that contains this peripheral circuit.
E	62	10	Shift lens initializing failure	Replacement of lens block. *1 If an error occurs again, steadyshot circuit may be faulty. Replace the board that contains this peripheral circuit.
E	62	11	Shift lens overheating (PITCH)	Check signal line connections from CPU through steadyshot IC to PITCH/YAW drive. When there is no problem with the connections, check whether this error is due to the lens or the board. Replace the faulty lens or board.
E	62	12	Shift lens overheating (YAW)	Check signal line connections from CPU through steadyshot IC to PITCH/YAW drive. When there is no problem with the connections, check whether this error is due to the lens or the board. Replace the faulty lens or board.
E	62	20	Abnormality of thermistor	Check signal line connections from CPU through steadyshot IC to PITCH/YAW drive. When there is no problem with the connections, check whether this error is due to the lens or the board. Replace the faulty lens or board.
E	91	01 *2	Abnormality when flash is being charged	Checking of flash unit or replacement of flash unit.
E	92	00	Battery/Dry cell distinction defect	Turn power off and turn power on again.
E	94	00 *2	Fault of writing or erasing the internal memory	Turn power off and turn power on again.
E	94	02	BGM data error	The CPU may be faulty. Replace the board that contains this peripheral circuit.
E	95	00 *2	GPS hardware error	Check the signal line connection for GPS. When there is no problem with the connections, replace the board that contains this peripheral circuit.
E	95	01	Acceleration sensor hardware error	Turn power off and turn power on again. When this error is not cleared, the peripheral circuit of the acceleration sensor may be faulty. Replace the board that contains this peripheral circuit.
E	95	02 *2	Electronic compass hardware error (GPS hardware error)	The peripheral circuit of the electronic compass may be faulty. Replace the board that contains this peripheral circuit.

*1: When the lens block was replaced, start the Adjust Manual in the Adjust Station and execute the necessary adjustment items. After the adjustment, make sure with the STEADYSHOT turned ON that the steadyshot functions appropriately in the handheld operation.

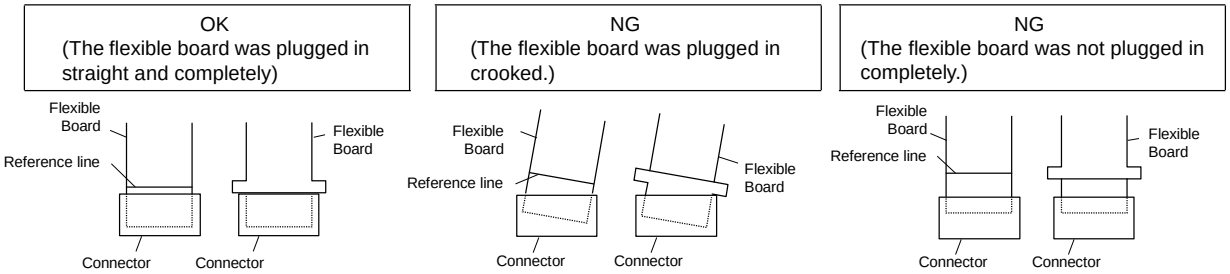
*2: Function of this code is not provided in this unit.

Section 2
Service Note

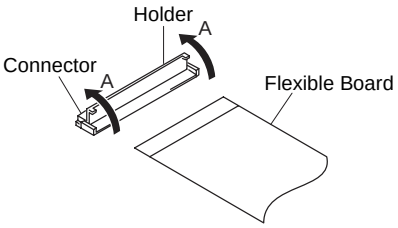
2-1. Operation Notes

2-1-1. Flexible Board

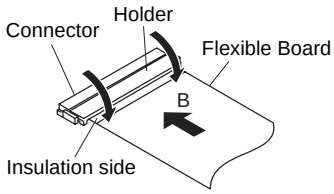
- Make sure that the conductive side of a flexible board does not have any stain or foreign materials.
- Do not touch the conductive side of flexible boards with bare hands.
- Plug in a flexible board straight, fully into the connector until it reaches the end inside.



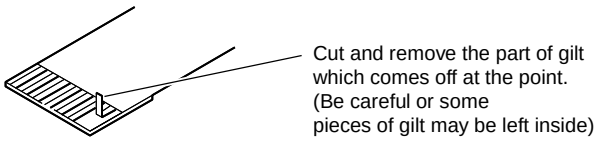
- When opening the connector's holder in direction A, do not open it with excessive force.



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



- Make sure that the flat cable and flexible board are not cracked or bent at the contact end.



- Do not apply excessive force to the gilded flexible board.

2-1-2. Fine-Wire Coaxial Cable

- 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.
- The proper way to connect a connector is to grab the connector instead of the wires. If you push on the wires, they might be broken.

2-2. Precaution on Replacing the SY-1112 Board

The board for repair is not recorded the information unique to a model. Therefore the following data are needed to write.

Note

The [LOAD AND WRITE] function in “ADJUSTMENT DATA BACKUP” on the DATA tab in the Adjust Manual overwrites all data of the unit. Therefore execute the [LOAD AND WRITE] before performing the following operation.

2-2-1. Destination Data

The destination data stored in the repairing board is different from the destination setting stored in the board before replacement in some cases.
When the board has been replaced with a repairing board, be sure to set the destination.

Method of the destination data write:
Start the Adjust Manual in the Adjust Station and execute the “Destination data write” on the ADJUST tab.

2-2-2. Restore Data

Before replacing the board with a repairing board, be sure to extract the data from the former one.

Method of the data extracting:
Start the Adjust Manual in the Adjust Station and execute the “RESTORE DATA” on the DATA tab.

2-2-3. USB Serial No. and Product ID

The unit is shipped after an ID (USB Serial No.) unique to each unit and an ID (Product ID) unique to each model have been written. These IDs have not been written in a new repairing board. Therefore, after the board has been replaced, be sure to write these IDs to a new repairing board.

Method of the ID writing:
Start the Adjust Manual in the Adjust Station and execute the “PRODUCT ID & USB SERIAL No. INPUT” on the ADJUST tab.

2-2-4. Update of MAC Address

When a board that contains Wi-Fi has been replaced or when replacing a board that contains the main IC (CPU), the IC’s unique number (MAC address) must be reloaded.

Procedure of the MAC address update:

Note

Perform the below operations after all work has been done.

1. Start the Adjust Manual in the Adjust Station and execute the “Wireless LAN Setting (MAC Address)” on the ADJUST tab.
2. Operate the unit to initialize of SSID/PW.

Applicable parts:

- SY-1112 BOARD, COMPLETE (SERVICE)
- MS-1041 BOARD, COMPLETE

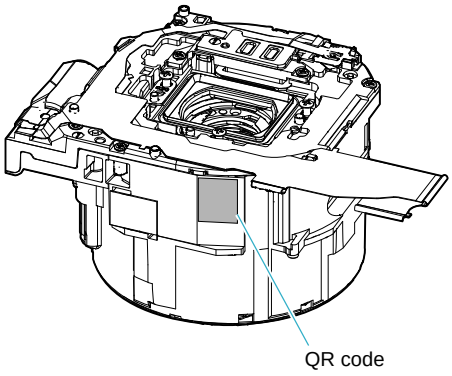
Note

After the replacement and repair, the MAC address is changed, and thus the re-setting for connection devices is required. Accordingly, download the Flyer of WLAN Reset (Flyer of WLAN Reset_9834752[][].pdf) and print out it, and attach it to the set when returning the set to customer.

2-3. Notes on Replacing the Lens

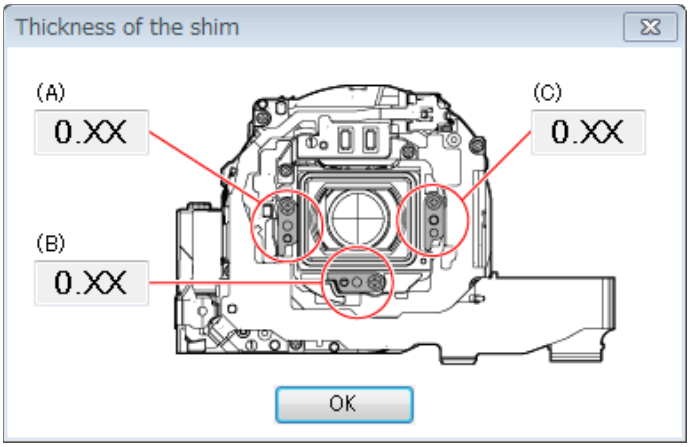
When replacing the lens, read the QR code of the repair lens.
To read the QR code, start the Adjust manual and press the QR code reader button.
The read data is used in the following processes.

- Selection of Spacer Plate when mounting the imager board
- Adjustment after replacing the lens



2-3-1. Selection of Spacer Plate when Mounting the Imager Board

1. Load the Spacer Plate on the QR code reader screen.
2. The thickness of the Spacer Plate to be loaded is displayed.



3. Select the Spacer Plate according to the instructions on the screen and mount the imager board.

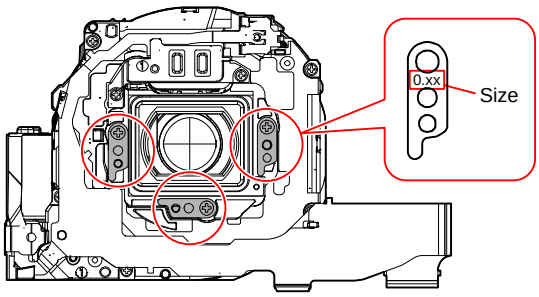
2-3-2. Adjustment after Replacing the Lens

Perform LOAD from “Lens data carry” on the ADJUST tab in the Adjust manual.

2-4. Notes on Removing/Installing the Imager Board (CD-1009 Flexible Board)

When the CD-1009 Flexible Board (Imager) is mounted to the lens, shift and tilt adjustment is made with Spacer Plates.
When removing the CD-1009 Flexible Board, pay attention to the following.

1. When the lens is not replaced
   Example: In the case of disassembly, cleaning, or replacement of the CD-1009 Flexible Board. (Imager)
   - Check and record the size of the built-in three Spacer Plates and store them so as not to lose them.
   - When assembling the CD-1009 Flexible Board, be sure to install the Spacer Plates to their original locations.



Note

Be careful not to lose the Spacer Plates.
If any Spacer Plate is lost or their previous positions are not sure, repeatedly take a photo and check that there is no local defocus.
Selecting appropriate Spacer Plates is needed.

2. When the lens is replaced
   Refer to “2-3. Notes on Replacing the Lens” for select Spacer Plates and install them to the new lens.

2-5. Checking the Wi-Fi Function

After this unit has been disassembled and reassembled, check the Wi-Fi function.

Required equipment:
Windows PC or smartphone with Wi-Fi interface

Procedure:
1. Turn on the power of the unit and enable the Wi-Fi function.
   (Upon completion of the preparation for Wi-Fi connection, the password for Wi-Fi connection is displayed.)
2. Confirm on the PC or the smartphone that the unit is detected as a connectable wireless network.

2-6. Precaution on Replacing the SY-1112 Board

2-6-1. Angular Velocity Sensor

Before replacing the board with a repairing board, be sure to record the sensitivity indicated on the angular velocity sensor on the repairing board.
The recorded sensitivity indication must be stored in the repairing board.

Method of the angular velocity sensor sensitivity writing:
Start the Adjust Manual in the Adjust Station and execute the “Angular velocity sensor sensitivity adj” on the ADJUST tab.

Note

The sensitivity of the angular velocity sensor is indicated only on the repairing board, but is not indicated on mass production boards.

Section 3
Adjustment

For adjusting these models, the Adjust Station and the Adjust Manual are required.

Adjust Station

It is the software to start up Adjust Manual for each model.

The installer of the Adjust Station and the installation manual are attached, be sure to confirm the contents of them.

Adjust Manual

It is the software to adjust and check digital cameras and camcorders for service.

The installer of the Adjust Manual and the installation manual are attached, be sure to confirm the contents of them.

Note

Be sure to install Adjust Station first.

第 1 章
トラブルシューティング

1-1. 自己診断機能

1-1-1. 自己診断機能について

本機の動作に不具合が発生した場合，自己診断機能が働き，LCD 画面にアルファベット 1 文字と数字 4 桁が表示され点滅します。この 5 文字の表示を自己診断コード表と対照して，対応者分類，不具合の生じたブロックの分類および不具合の詳細を確認することができます。
過去に発生した不具合の履歴は Adjust Manual の DATA タブにある“Usage and Diag record”で確認することができます。
自己診断機能については取扱説明書にも掲載されています。

1-1-2. 基板について

本機で使用している基板の主な機能は以下の通りです。

基板	機能
BT 基板	バッテリー
CD 基板	イメージャー
MIS 基板	マルチインターフェースシュー
MS 基板	ワイヤレス LAN モジュール，カードスロット
PD 基板	LCD
RE 基板	LCD 反転検出センサー，LCD 開閉検出センサー
RL-1065 基板	6 軸モーションセンサー，スイッチ
RL-1066 基板	マイクロフォン，スピーカー
SY 基板	PITCH/YAW 角速度センサー，レンズ駆動，CPU，電源制御，その他機能

1-1-3. 自己診断コード表

自己診断コード			症状／状態	対応／方法
対応者	ブロック機能	詳細コード		
C	13	01	フォーマットしていないメモリーカードを入れた。またはメモリーカードが壊れている。	メモリーカードをフォーマットする。 新しいメモリーカードに交換する。
C	32	01	ハードウェアトラブルを検出した。	電源を入れ直す。
C	32	60	フォーカスが合いにくい （フォーカスの初期化ができない）	電源を入れ直す。復帰しない場合，レンズブロックのフォーカス制御系信号の異常が考えられる。 症状がレンズ・基板のどちらに起因するか確認し不具合があるものを交換する。
E	41	00	ワイヤレス LAN モジュール，または CPU の異常	CPU - ワイヤレス LAN モジュール周辺回路の異常が考えられる。 上記回路を有する基板を交換する。
E	61	00	フォーカスが合いにくい （フォーカスの初期化ができない）	電源を入れ直す。復帰しない場合，レンズブロックのフォーカス制御系信号の異常が考えられる。 症状がレンズ・基板のどちらに起因するか確認し不具合があるものを交換する。
E	61	10	ズーム動作の異常 （ズームレンズの初期化ができない）	電源を入れ直す。復帰しない場合，ズームレバーを操作して以下の確認をする。 • ズーム動作をした場合，レンズブロックのズーム制御系信号の異常が考えられる。 • ズーム動作をしなかった場合，ズームモータ駆動回路の異常が考えられる。 症状がレンズ・基板のどちらに起因するか確認し不具合があるものを交換する。

次へ続く

自己診断コード			症状／状態	対応／方法
対応者	ブロック機能	詳細コード		
E	61	30	ステッパ IRIS イニシャル時リセット位置検出異常	電源を入れてレンズバリアが開いている状態で，バッテリーまたは電源ケーブルをはずして付け直す。その際，レンズ内のアイリス羽根が動作していることを確認する。 アイリス羽根が動作してない場合は，レンズ駆動ブロックのアイリスモータ駆動回路を確認する。アイリス羽根が動作する場合は，アイリス羽根が完全に閉じきることを確認し，以下の内容を確認する。 • アイリス羽根を正常に閉じることができない場合レンズブロックを交換する。 • アイリス羽根は正常に閉じているが，E:61:30 が出る場合レンズブロックとの通信ができているかを確認する。 • 正常に画面が出ていない場合，イメージャー基板とメイン基板の間の接続を確認する。 • 正常に画面が出ている場合，レンズブロックを交換する。
E	62	00	手振れ補正が効きにくい （PITCH 角速度センサー出力張り付き）	PITCH 角速度センサー周辺回路の異常が考えられる。 上記回路を有する基板を交換する。
E	62	01	手振れ補正が効きにくい （YAW 角速度センサー出力張り付き）	YAW 角速度センサー周辺回路の異常が考えられる。 上記回路を有する基板を交換する。
E	62	02	手振れ補正用 IC の異常	CPU - 手振れ補正 IC - PITCH/YAWドライブ間の信号線の接続を確認する。 異常なければ上記回路を有する基板を交換する。
E	62	04	手振れ補正時の画ゆれが補正できない （角速度センサー出力張り付き）	画ゆれ検出角速度センサー周辺回路の異常が考えられる。 上記回路を有する基板を交換する。
E	62	10	シフトレンズ初期化異常	レンズブロックを交換する。*1 エラーが再度発生する場合は，手振れ補正回路の異常が考えられる。 上記回路を有する基板を交換する。
E	62	11	シフトレンズオーバーヒート (PITCH)	CPU - 手振れ補正 IC - PITCH/YAWドライブ間の信号線の接続を確認する。 異常なければ症状がレンズ・基板のどちらに起因するか確認し不具合があるものを交換する。
E	62	12	シフトレンズオーバーヒート (YAW)	CPU - 手振れ補正 IC - PITCH/YAWドライブ間の信号線の接続を確認する。 異常なければ症状がレンズ・基板のどちらに起因するか確認し不具合があるものを交換する。
E	62	20	サーミスタの異常	CPU - 手振れ補正 IC - PITCH/YAWドライブ間の信号線の接続を確認する。 異常なければ症状がレンズ・基板のどちらに起因するか確認し不具合があるものを交換する。
E	91	01 *2	フラッシュの充電異常	フラッシュユニットを点検または交換する。
E	92	00	バッテリー乾電池判別不良	電源を入れ直す。
E	94	00 *2	内蔵メモリーの書込み/消去動作不良	電源を入れ直す。
E	94	02	BGM データ異常	CPU の異常が考えられる。 上記回路を有する基板を交換する。
E	95	00 *2	GPS ハード異常	GPS の信号線の接続を確認する。 異常がなければ上記回路を有する基板を交換する。
E	95	01	加速度センサーハードウェア異常	電源を入れ直す。復帰しない場合，加速度センサー周辺回路の異常が考えられる。 上記回路を有する基板を交換する。

*1: レンズブロックを交換した場合は，Adjust Station から Adjust Manual を起動させて必要な調整項目を実施してください。調整後は手振れ補正 ON の状態にして，手持ち動作で手振れ補正が適切に動作していることを確認してください。

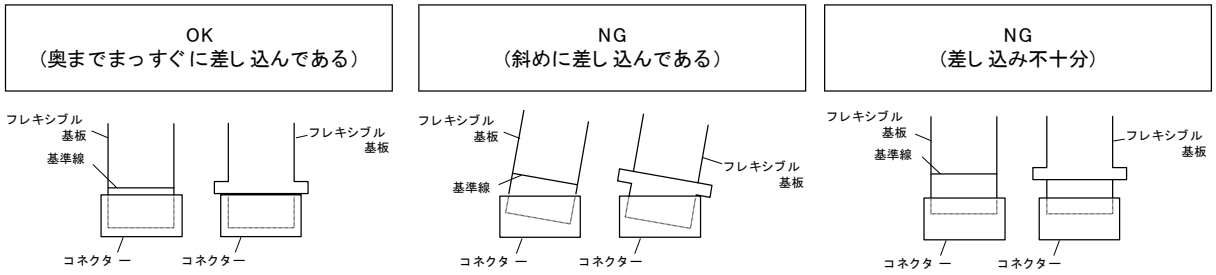
*2: このコードの機能は本機には実装されていません。

第 2 章
サービスノート

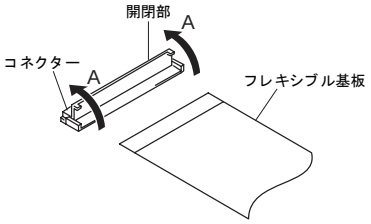
2-1. 作業時の注意

2-1-1. フレキシブル基板

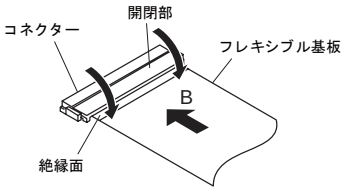
- フレキシブル基板の導電面に汚れやごみなどがないことを確認してください。
- フレキシブル基板の導電面を素手で触れないようにしてください。
- フレキシブル基板は，コネクターの奥までまっすぐに差し込んでください。



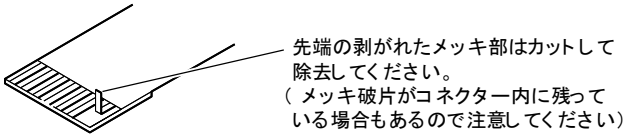
- コネクターの開閉部を開ける際，A 方向に開け過ぎないようにしてください。



- コネクターの開閉部を閉じる際，フレキシブル基板を矢印 B 方向に押しながら，開閉部を均一に押してください。



- フラットケーブルおよびフレキシブル基板の端子面に欠け，折れ等がないことを確認してください。



- 金メッキされているフレキシブル基板には，強い負担をかけないでください。

2-1-2. 細線ケーブル

- コネクターを取り外す際に，線材部（極細）を持って引っ張ると断線する恐れがありますので，絶対に線材部（極細）を持って引っ張らないでください。
- 線材部（極細）を押さえながらコネクターを差し込むと，線材部（極細）が断線する恐れがありますので，絶対に線材部（極細）には負担をかけないでください。

2-2. SY-1112 基板交換時の注意

補修用基板には機種固有の情報が記録されていないため，下記のデータを書き込む必要があります。

注意

Adjust Manual 内の DATA タブにある“ADJUSTMENT DATA BACKUP”の［LOAD AND WRITE］機能は，セットのすべてのデータを上書きするので，下記の作業を行う前に実施してください。

2-2-1. 仕向データ

補修用基板に書き込まれている仕向のデータは交換前の基板に書き込まれている仕向の設定と異なっている場合があります。
補修用基板に交換した場合は，必ず仕向の設定を行ってください。

仕向設定方法：
Adjust Station から Adjust Manual を起動し，ADJUST タブにある“Destination data write”を実施してください。

2-2-2. リストアデータ

補修用基板に交換する場合は，必ず事前に交換前の基板からデータを抽出してください。

データの抽出方法：
Adjust Station から Adjust Manual を起動し，DATA タブにある“RESTORE DATA”を実施してください。

2-2-3. USBシリアルナンバーとプロダクトIDについて

本機は，1 台ごとに異なる固有の ID（USB シリアルナンバー）と機種固有の ID（プロダクト ID）が基板に書き込まれた後に出荷されています。
新品の補修用基板には，これらの ID が書き込まれていないため，基板を交換した場合は，必ず交換した新品の補修用基板に ID を書き込んでください。

ID の書き込み方法：
Adjust Station から Adjust Manual を起動し，ADJUST タブにある“PRODUCT ID & USB SERIAL No.INPUT”を実施してください。

2-2-4. MACアドレスの更新

Wi-Fi 搭載基板を交換した場合，または，メイン IC (CPU) が搭載されている基板を交換した場合は，MAC アドレスを更新する必要があります。

MAC アドレス更新方法：

注意

下記の操作は全ての作業を実施した後に行ってください。
1. Adjust Station から Adjust Manual を起動し，ADJUST タブにある“Wireless LAN Setting (MAC Address)”を実施する。
2. 本機を操作し，SSID･PW リセットを行う。

対象部品：
- SY-1112 BOARD, COMPLETE (SERVICE)
- MS-1041 BOARD, COMPLETE

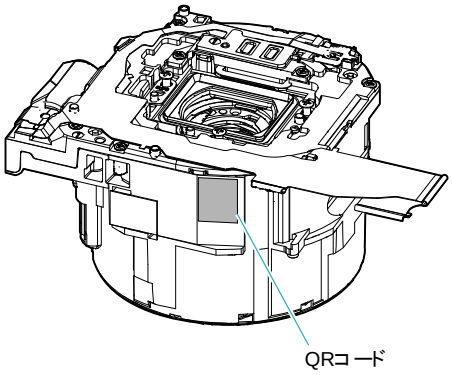
注意

交換修理後は MAC アドレスが変更されていますので，お客様に接続機器の再設定をしていただく必要があります。
そのため，Flyer of WLAN Reset（Flyer of WLAN Reset_9834752[][].pdf）をダウンロードし，印刷したものを本機と一緒にお客様にお渡しください。

2-3. レンズ交換時の注意

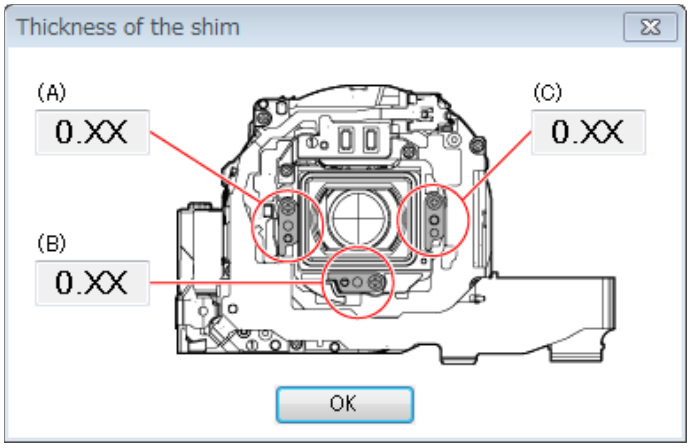
レンズを交換する際は補修用レンズの QR コードを読み取ってください。
QR コードの読み取りは，Adjust manual を起動して QR コードリーダーボタンより実行してください。
読み取ったデータは以下の工程において使用します。

- イメージャ基板取り付け時のあおり板の選択
- 交換終了後の調整時



2-3-1. イメージャ基板取り付け時のあおり板の選択

1. QR コードリーダー画面にて読み込みを実行する。
2. 組み込むあおり板の厚みが表示される。



3. 画面の指示に合わせてあおり板を選択し，イメージャ基板を取り付ける。

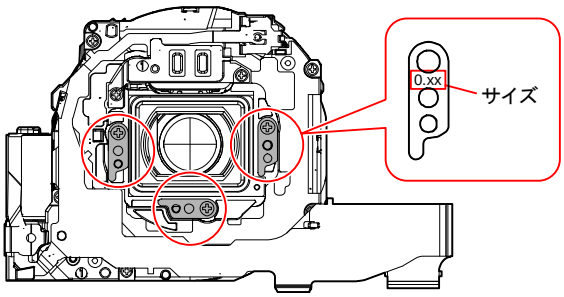
2-3-2. 交換終了後の調整時

Adjust manual の ADJUST タブにある，「Lens data carry」より LOAD を実施してください。

2-4. イメージャ基板（CD-1009 フレキシブル基板）の取り外し／取り付け時の注意

CD-1009 フレキシブル基板（イメージャ）は，レンズに取り付ける際，あおり板によりあおり調整されています。
CD-1009 フレキシブル基板を取り外すときは，下記の事に注意して作業してください。

1. レンズを交換しない作業の場合
   例：分解清掃する場合，CD-1009 フレキシブル基板（イメージャ）を交換する場合など。
   - 組み込まれているあおり板（3 箇所）のサイズを確認／記録し，失くさないように保管する。
   - 組立時には，あおり板を必ず元通りの位置に取り付ける。



注意

あおり板を紛失しないように注意してください。
あおり板を紛失してしまったり，あおり板の元の位置がわからなくなってしまったときには実写して片ボケがないことの確認を繰り返し，適切なあおり板を選択する必要があります。

2. レンズを交換する作業の場合
   「2-3. レンズ交換時の注意」を参照し，あおり板を選択してから新しいレンズに取り付ける。

2-5. Wi-Fi接続確認

本機の分解・組立を行った後は，Wi-Fi 機能の確認を行ってください。

用意する機器：
Wi-Fi 接続の可能なパソコンまたはスマートフォンなど

手順：
1. 本機の電源を入れ，Wi-Fi 機能を有効にする。
   （Wi-Fi 接続準備が完了すると Wi-Fi 接続のためのパスワードが表示されます。）
2. パソコンまたはスマートフォン側で接続可能な機器として，本機が検出されることを確認する。

2-6. SY-1112 基板交換時の注意

2-6-1. 角速度センサー

補修用基板に交換する場合は，必ず補修用基板の角速度センサーに表記されている感度表示をメモなどに記録してください。
記録した感度表示は補修用基板に書き込む必要があります。

角速度センサー感度書き込み方法：
Adjust Station から Adjust Manual を起動し，ADJUST タブにある“Angular velocity sensor sensitivity adj”を実施してください。

注意

角速度センサーの感度表示は補修用基板にのみ表記されています。量産用の基板には表記されていません。

第 3 章
調整について

これらの機種で調整を行なうには，Adjust Station と Adjust Manual が必要です。

Adjust Station とは

機種別の Adjust Manual を起動するためのソフトウェアです。

Adjust Station のインストーラと一緒に，インストレーションマニュアルが付いていますので，内容を必ず確認してください。

Adjust Manual とは

デジタルカメラ及びカムコーダのサービス用の調整ソフトウェアで，調整及び各種動作確認を行うことが可能です。

Adjust Manual のインストーラと一緒に，インストレーションマニュアルが付いていますので，内容を必ず確認してください。

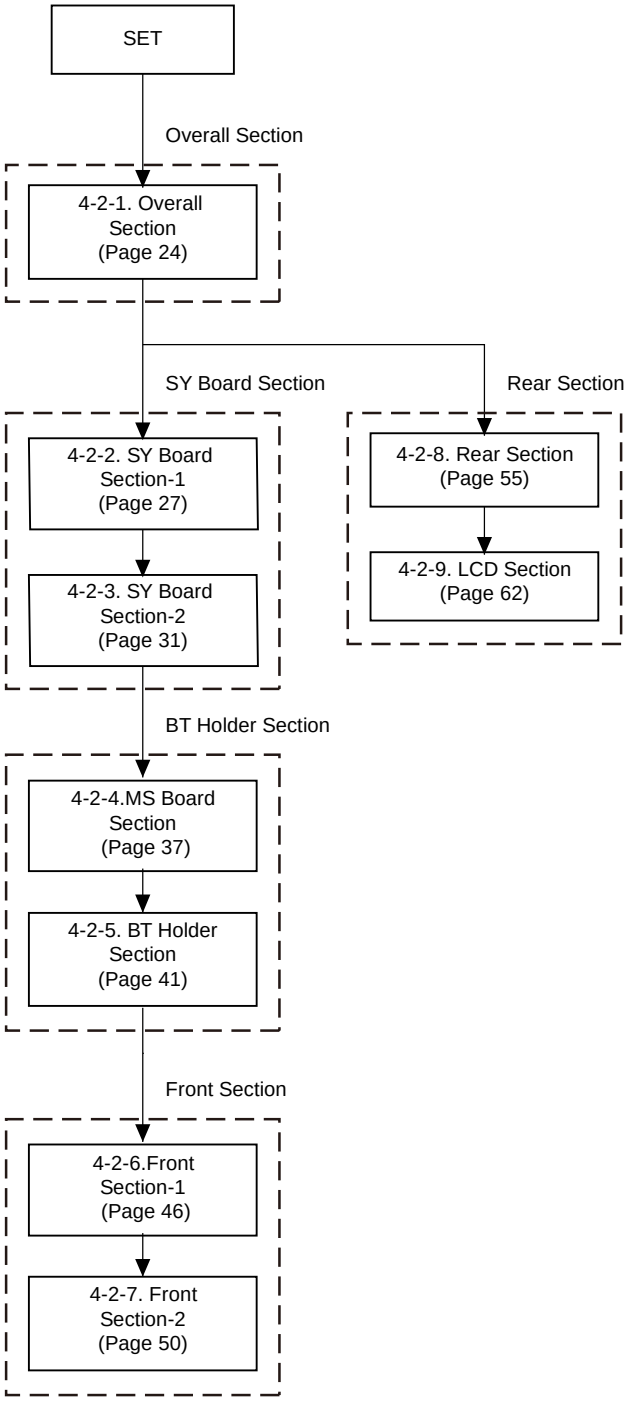
注意

インストールは必ず Adjust Station を先に行なってください。

Section 4
Replacement of Main Parts

4-1. Disassembly Flow

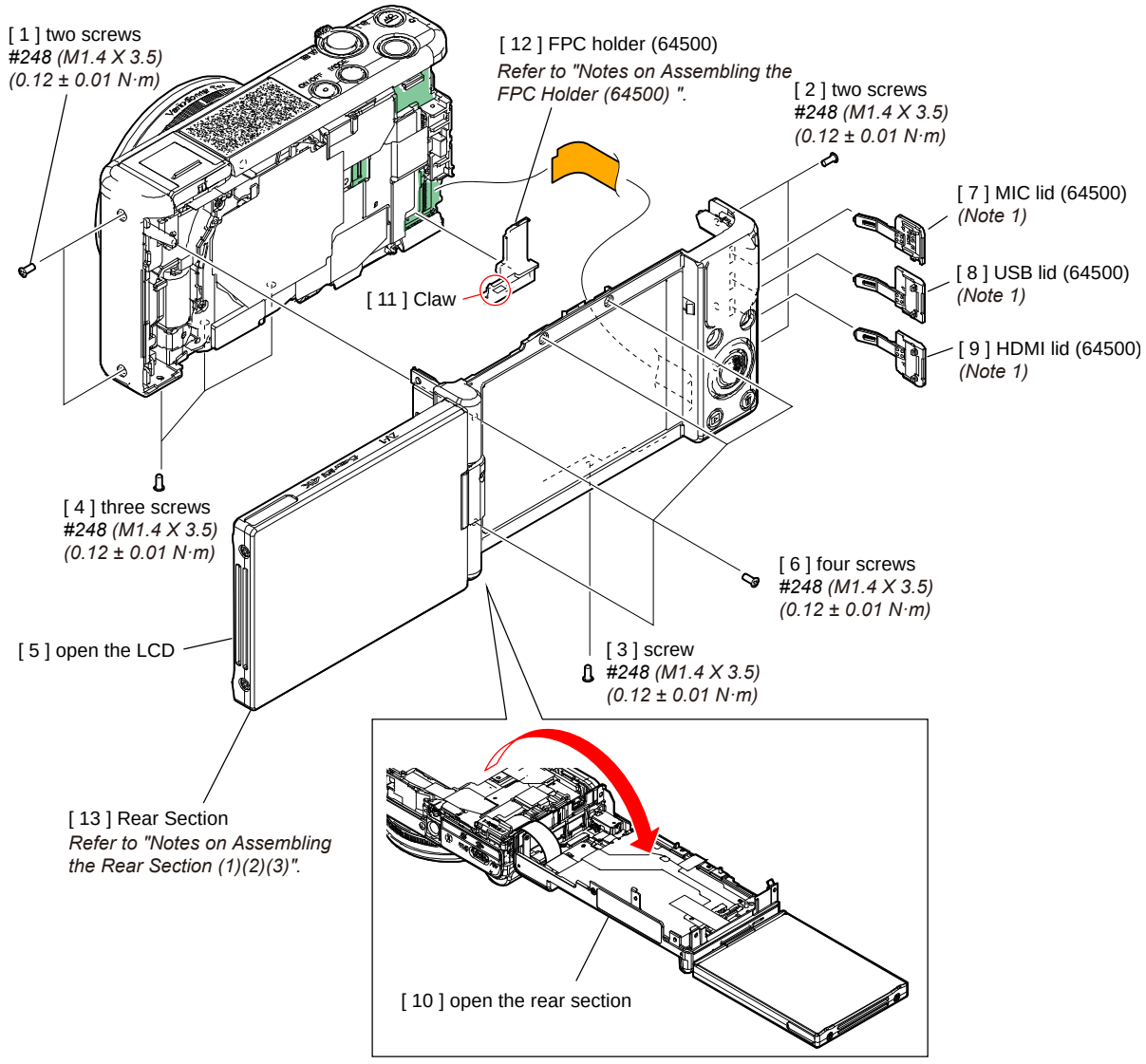
This set can be disassembled in the order shown below.



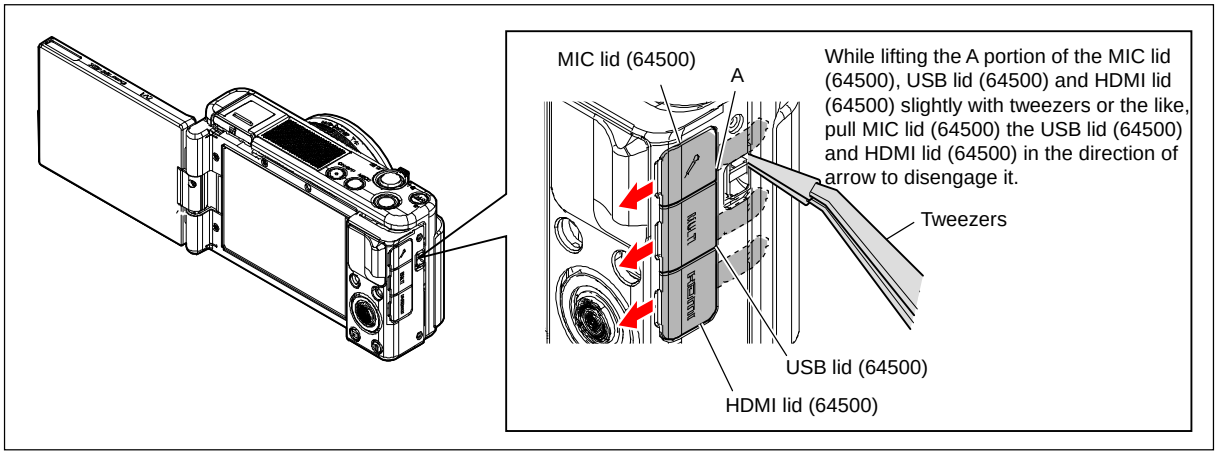
4-2. Disassembly

- Follow the disassembly procedure in the numerical order given.
- When installing, reverse the steps of removal.

4-2-1. Overall Section



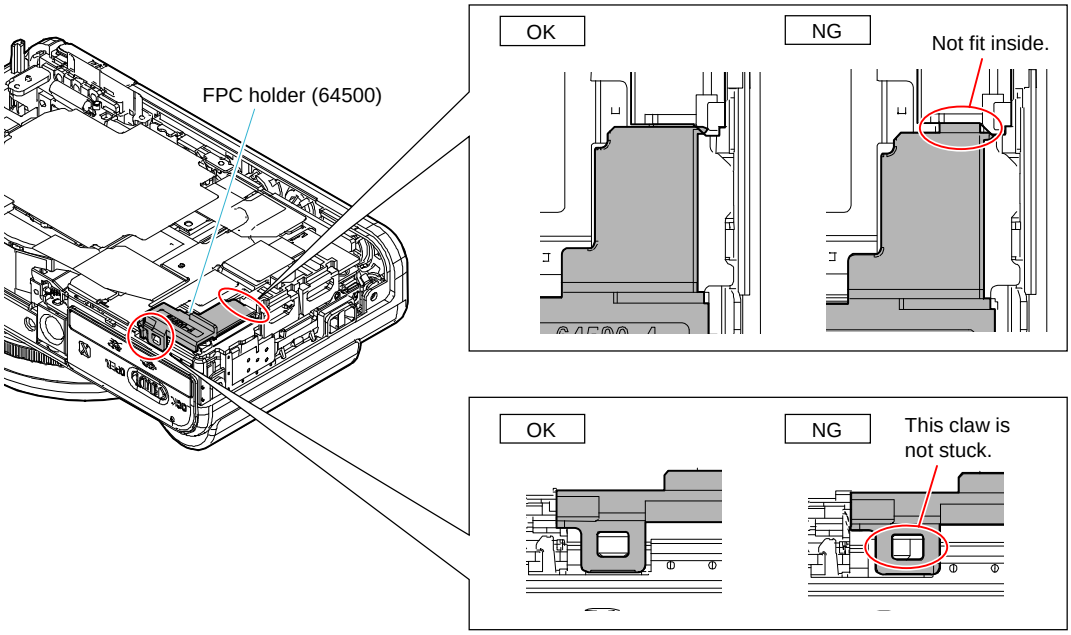
Note 1



Notes on Assembly

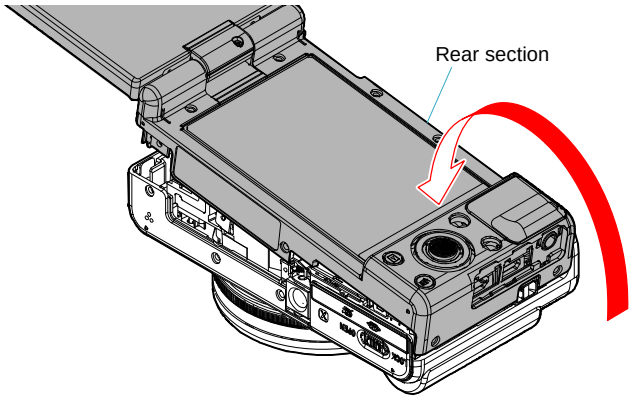
Assembly order 1

Notes on Assembling the FPC Holder (64500)
Attach the FPC holder (64500) as shown in figure.



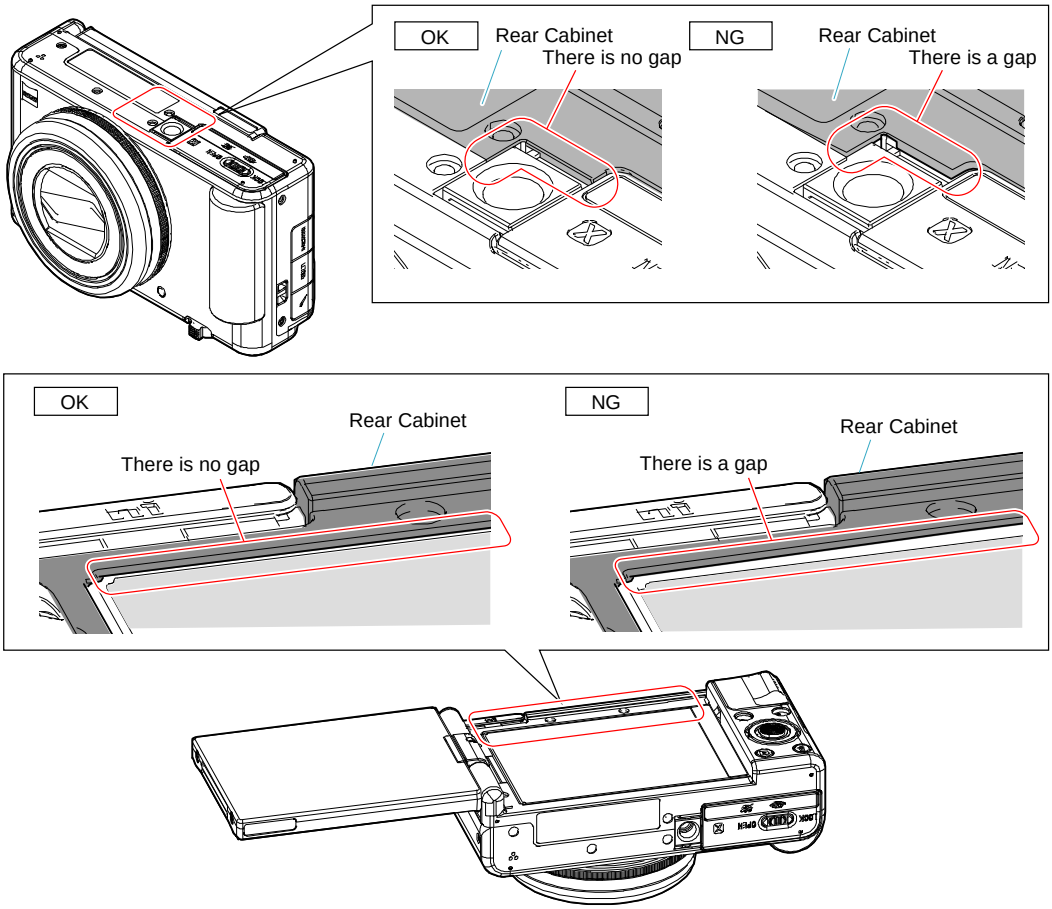
Assembly order 2

Notes on Assembling the Rear Section (1)
Close the rear section.



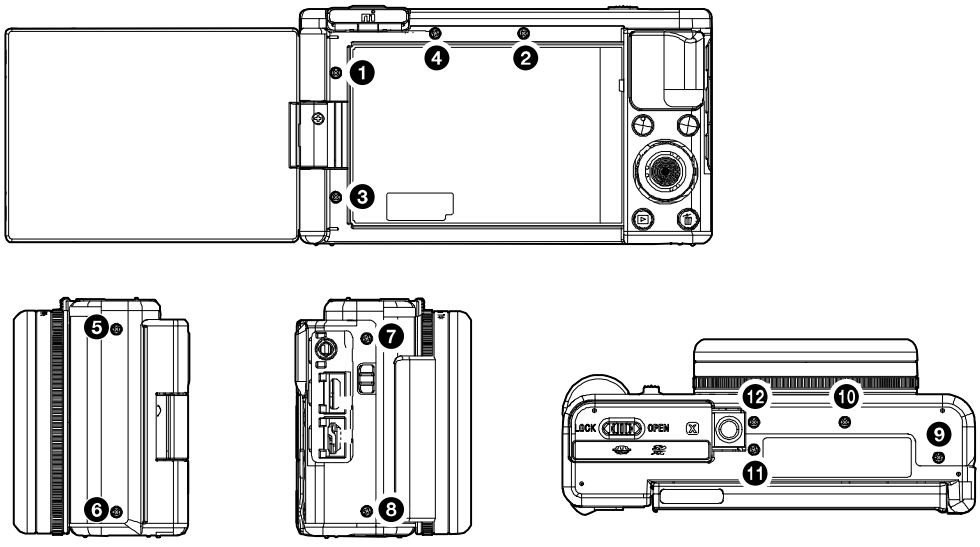
Assembly order 3

Notes on Assembling the Rear Section (3)
Confirm after installing the rear section.

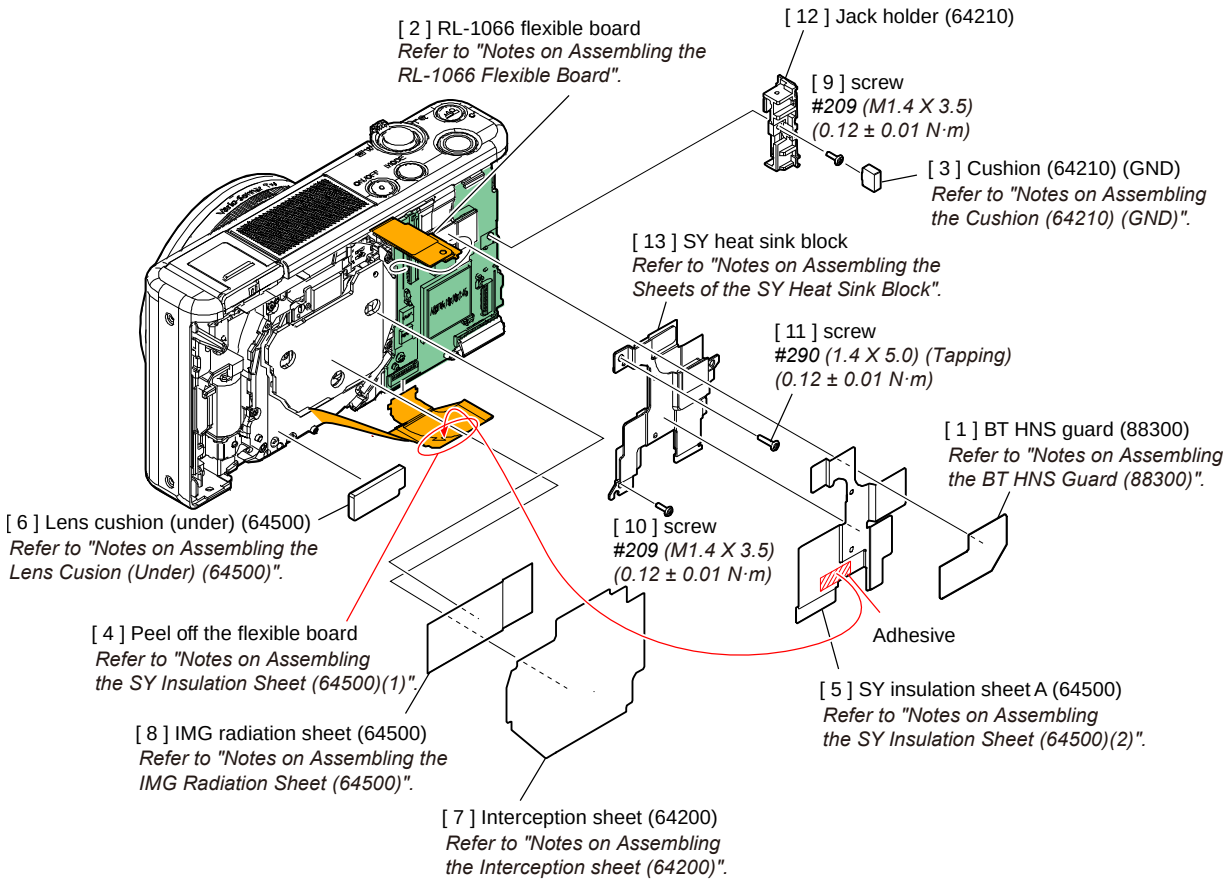


Assembly order 4

Notes on Assembling the Rear Section (2)
When installing the rear section, tighten screws in the order of (1) to (12).



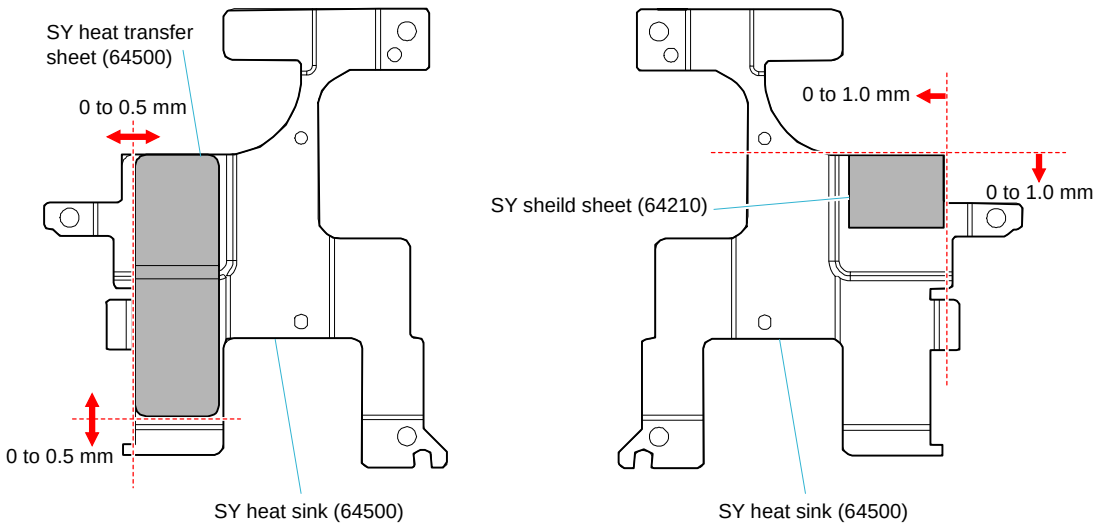
4-2-2. SY Board Section-1



Notes on Assembly

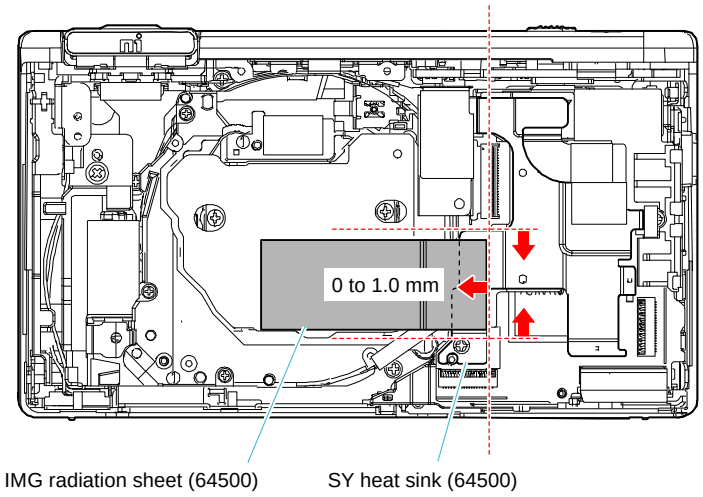
Assembly order 1

Notes on Assembling the Sheets of the SY Heat Sink Block
Attach the SY heat transfer sheet (64500) and the SY shield sheet (64210) as shown in figure.



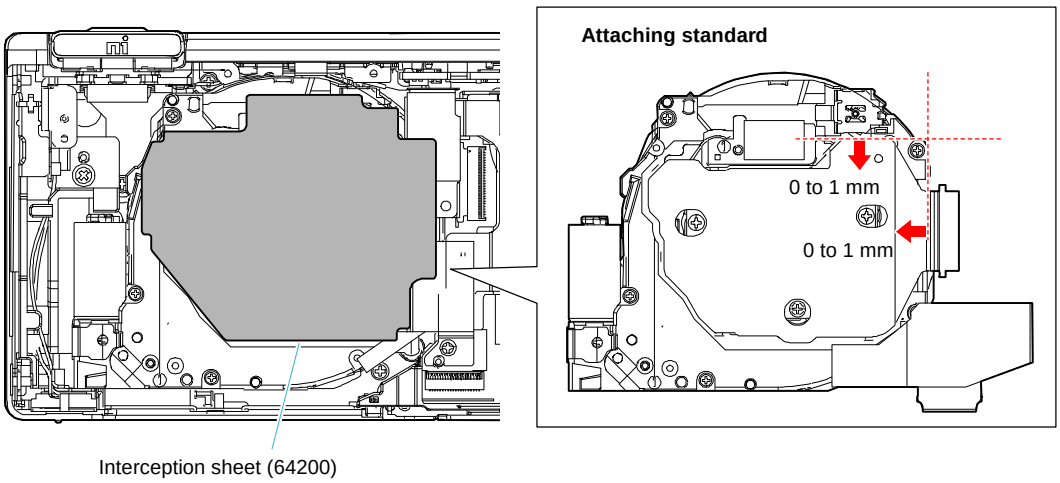
Assembly order 2

Notes on Assembling the IMG Radiation Sheet (64500)
Attach the IMG radiation sheet (64500) as shown in figure.



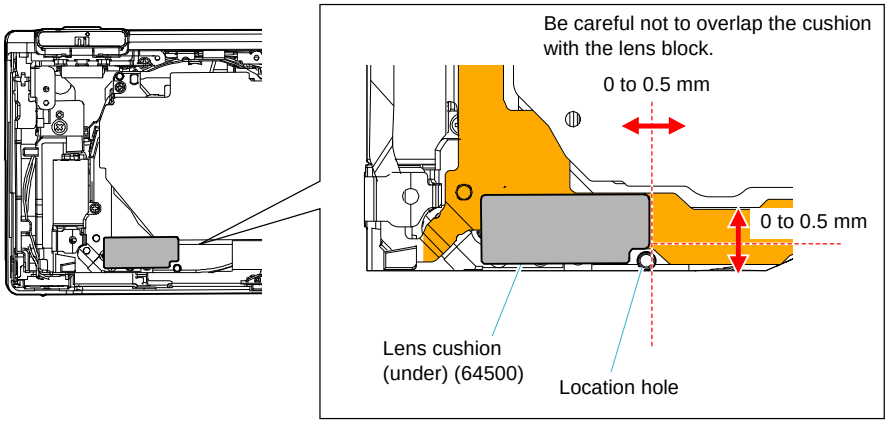
Assembly order 3

Notes on Assembling the Interception Sheet (64200)
Attach the interception sheet (64200) as shown in figure.



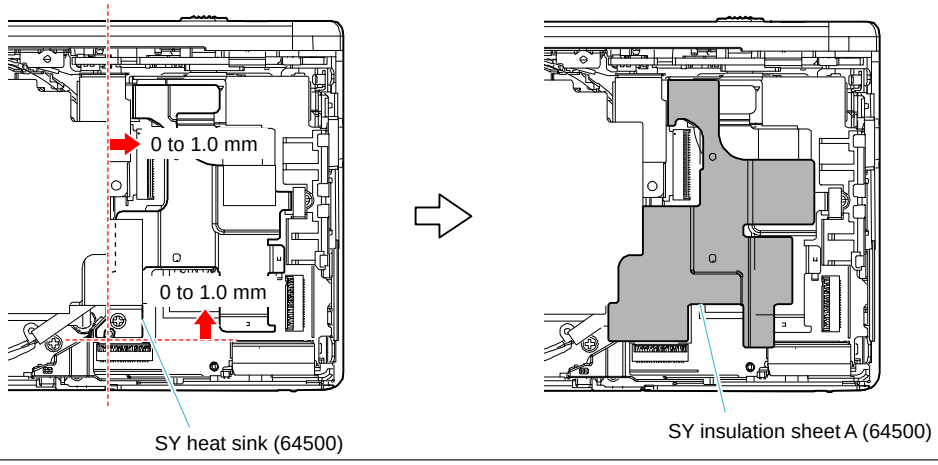
Assembly order 4

Notes on Assembling the Lens Cushion (Under) (64500)
Attach the lens cusion (under) (64500) as shown in figure.



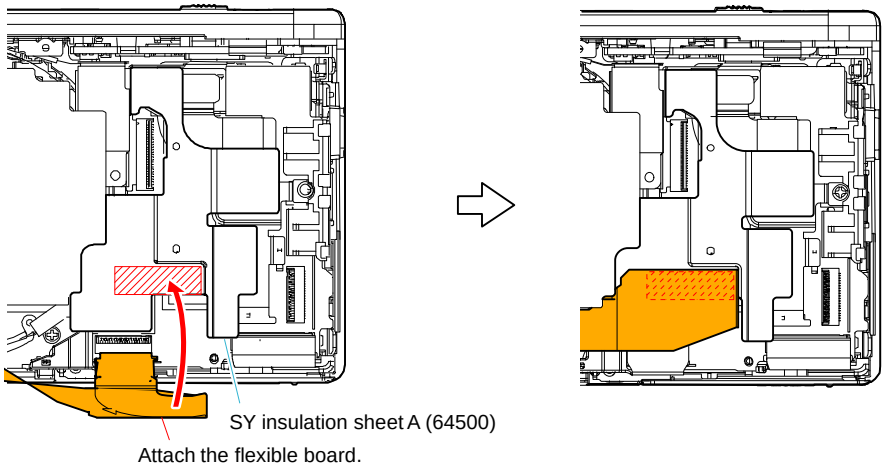
Assembly order 5

Notes on Assembling the SY Insulation Sheet A (64500)
Attach the SY insulation sheet A (64500) as shown in figure.



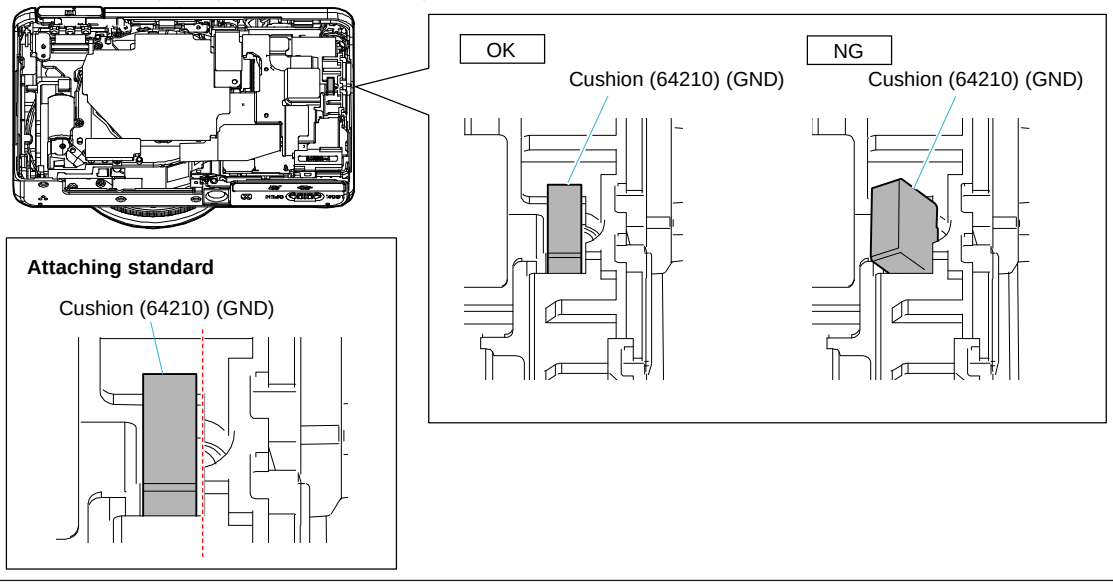
Assembly order 6

Notes on Assembling the SY Insulation Sheet A (64500) (2)
Attach the flexible board to the SY insulation sheet A (64500) as shown in figure.



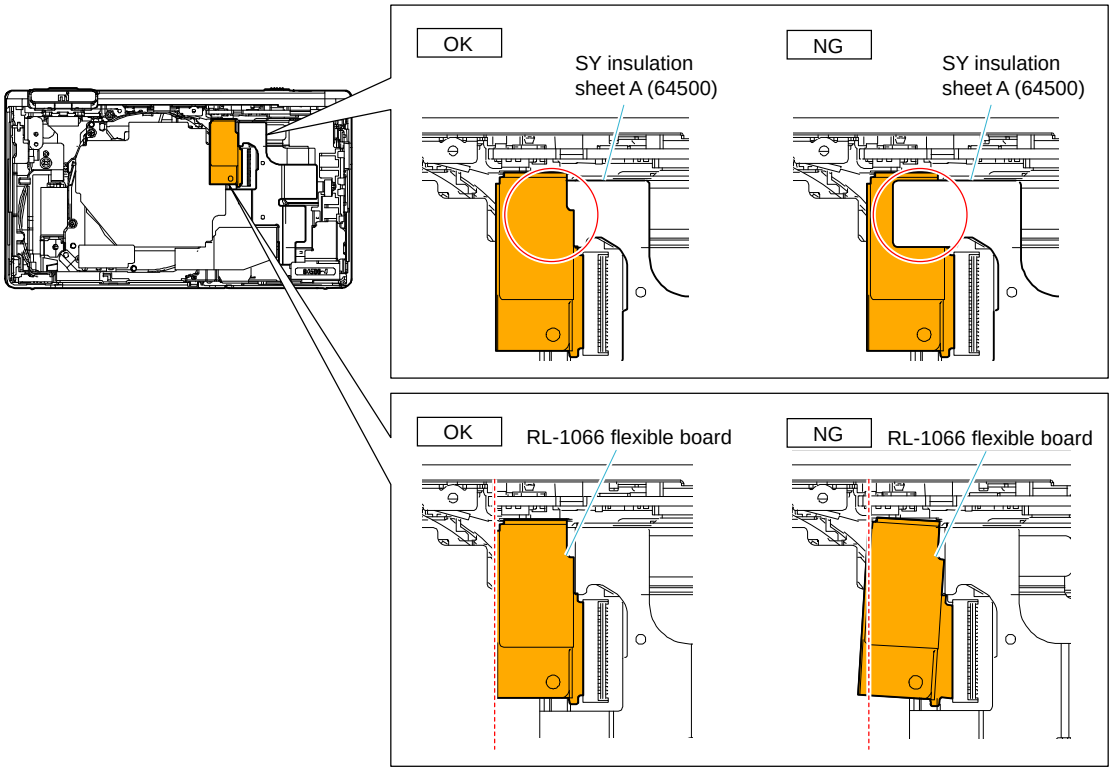
Assembly order 7

Notes on Assembling the Cushion (64210) (GND)
Attach the cushion (64210) (GND) as shown in figure.



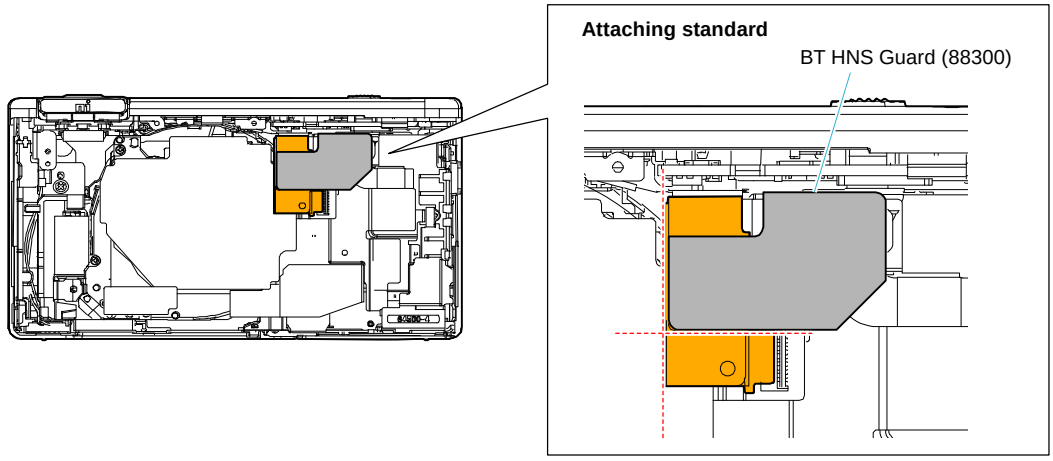
Assembly order 8

Notes on Assembling the RL-1066 Flexible Board
Connect the RL-1066 flexible board as shown in figure.



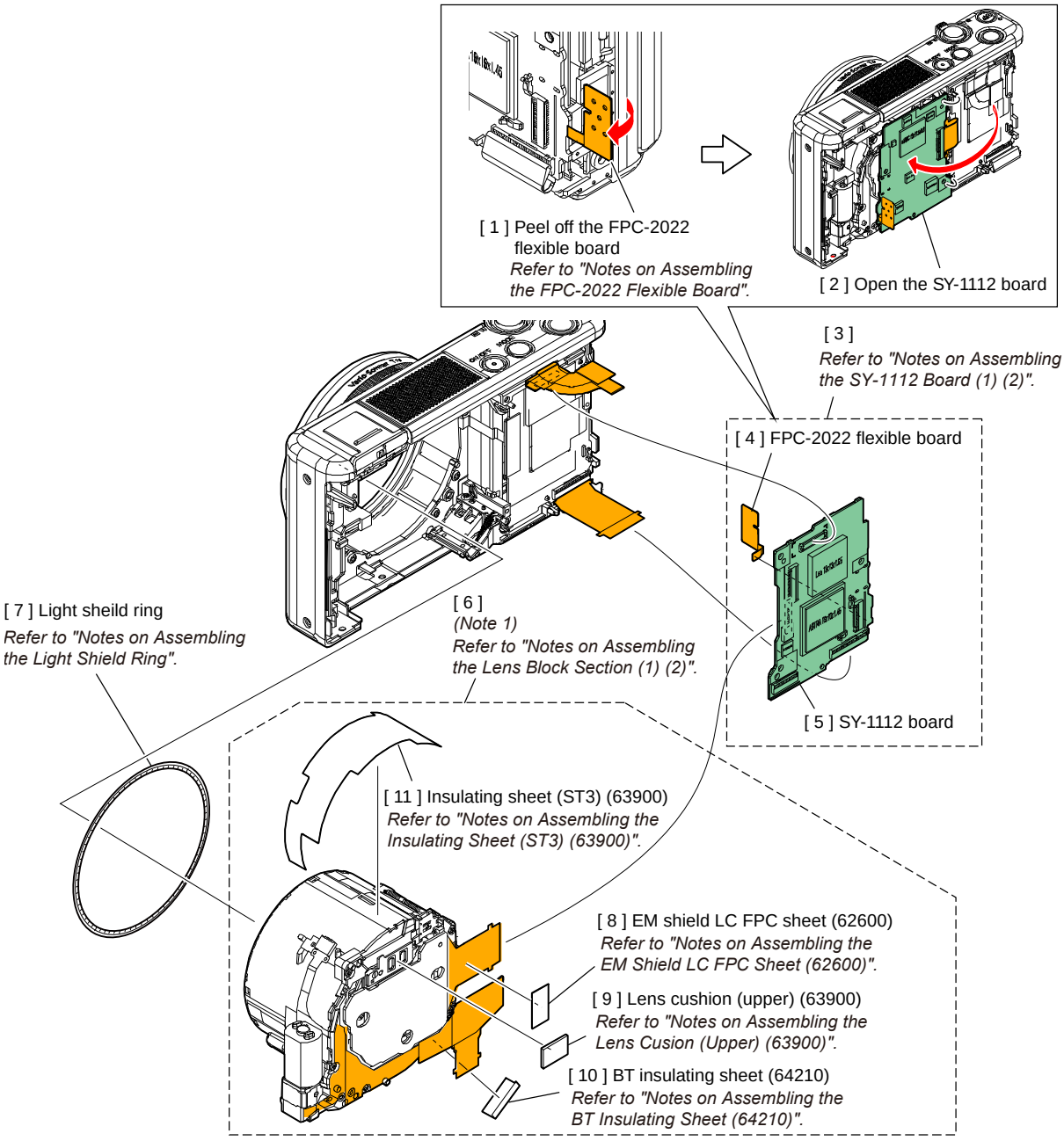
Assembly order 9

Notes on Assembling the BT HNS Guard (88300)
Attach the BT HNS guard (88300) as shown in figure.



4-2-3. SY-Board Section-2

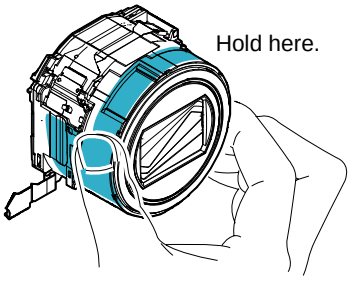
Refer to "4-3. Lens Block" for disassembly/assembly of the Lens Block.



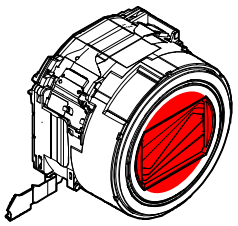
Note 1

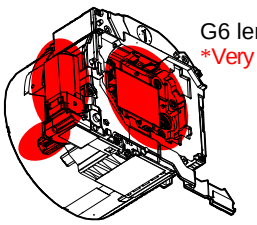
NOTES ON HOLDING THE LENS BLOCK

Hold the Lens Block at the center of both sides.



Do not hold the following part.

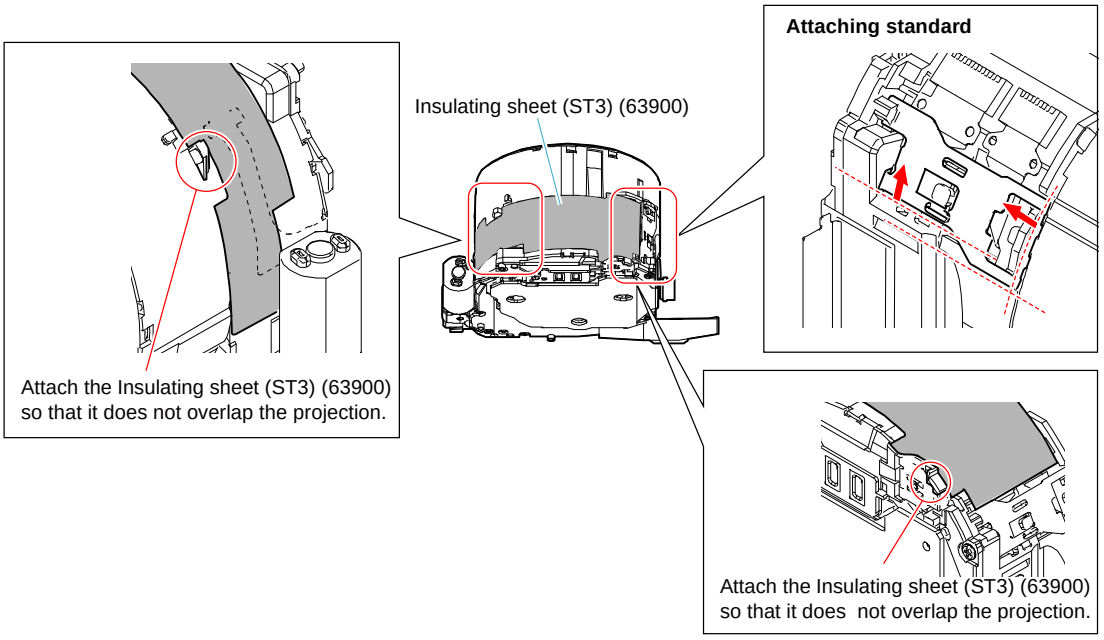




Notes on Assembly

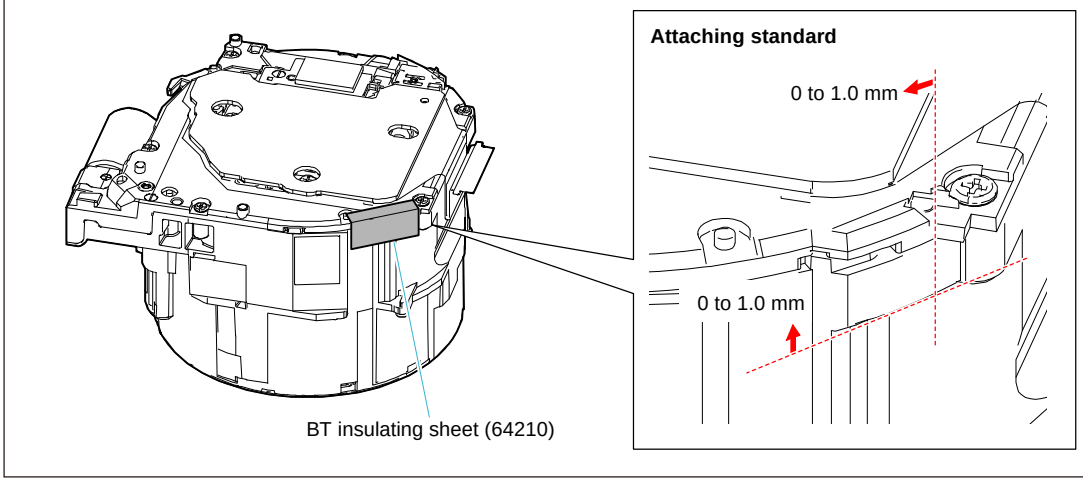
Assembly order 1

Notes on Assembling the Insulating Sheet (ST3) (63900)
Attach the insulating sheet (ST3) (63900) as shown in figure.



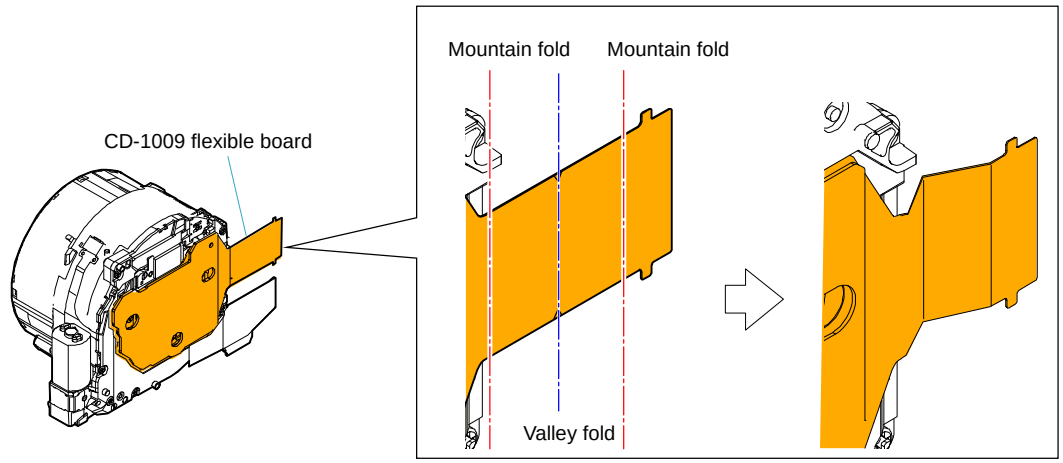
Assembly order 2

Notes on Assembling the BT Insulating Sheet (64210)
Attach the BT insulating sheet (64210) as shown in figure.

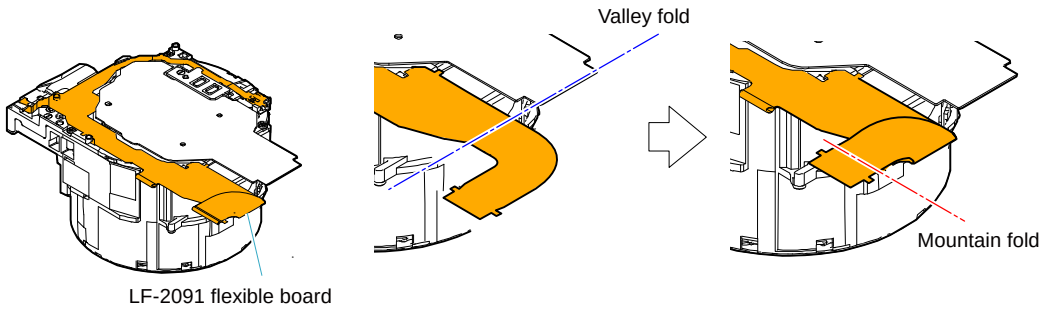


Assembly order 3

Notes on Assembling the Lens Block Section (1)
Fold the CD-1009 flexible board as shown in figure.

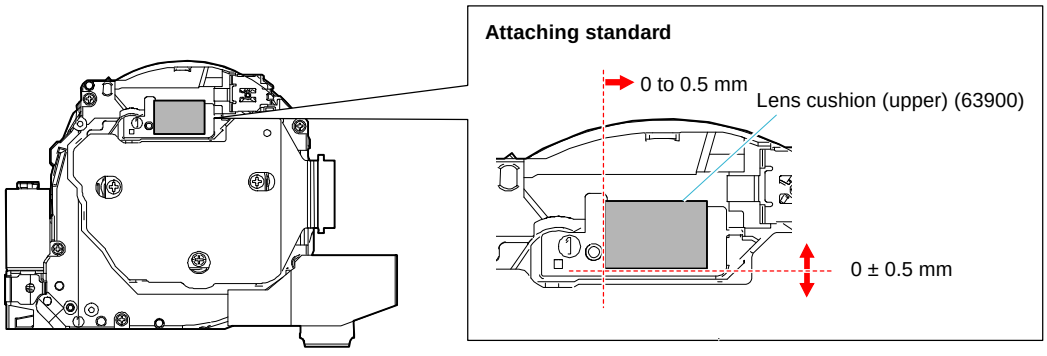


Fold the LF-2091 flexible board as shown in figure.



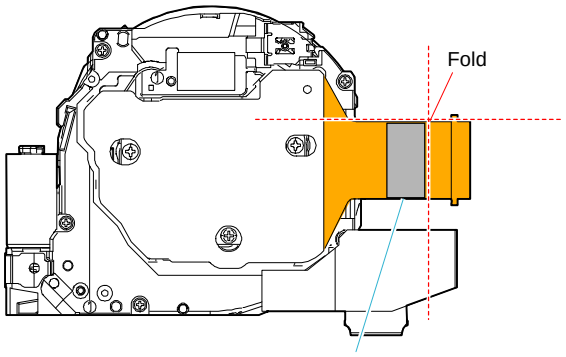
Assembly order 4

Notes on Assembling the Lens Cusion (upper) (63900)
Attach the lens cushion (upper) (63900) as shown in figure.



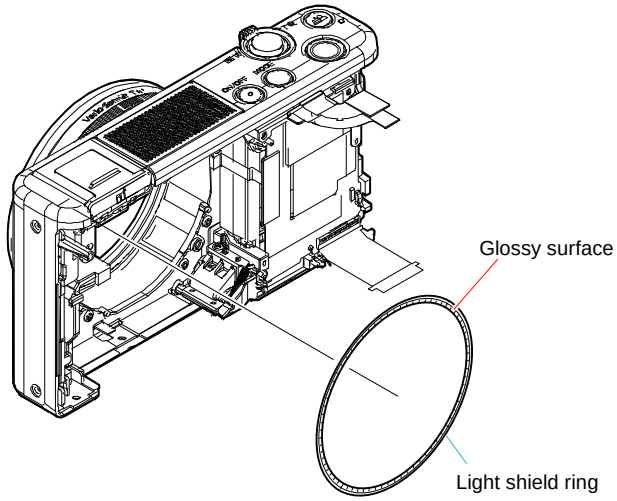
Assembly order 5

Notes on Assembling the EM Shield LC FPC Sheet (62600)
Attach the EM shield LC FPC sheet (62600) as shown in figure.



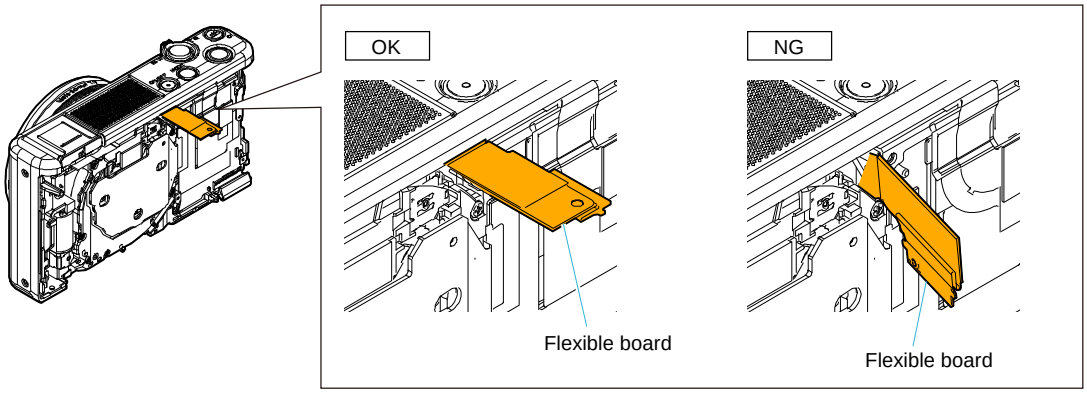
Assembly order 6

Notes on Assembling the Light Shield Ring
Attach the light shield ring as shown in figure.



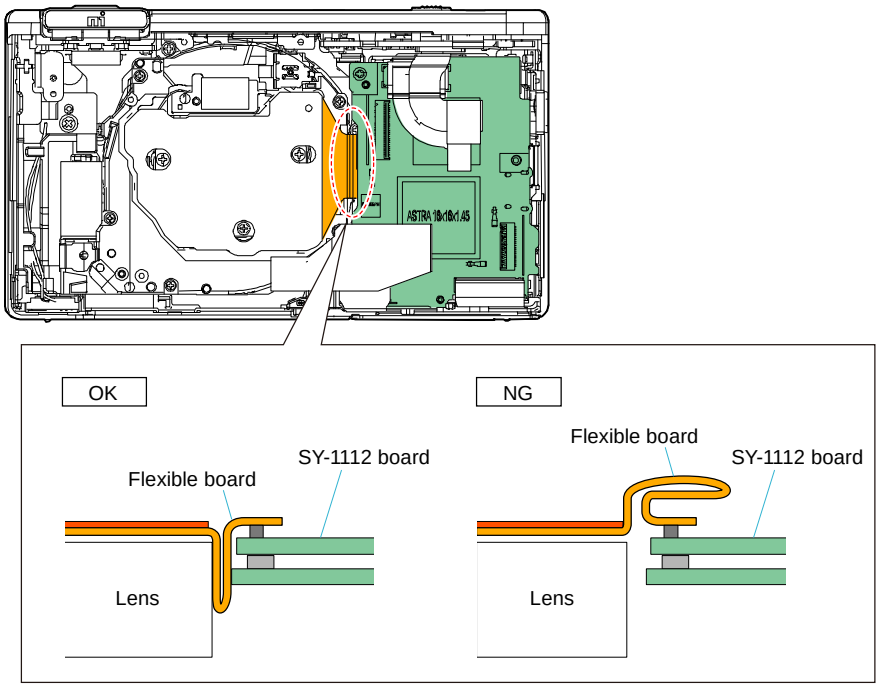
Assembly order 7

Notes on Assembling the Lens Block Section (2)
Arrange the flexible board as shown in figure.



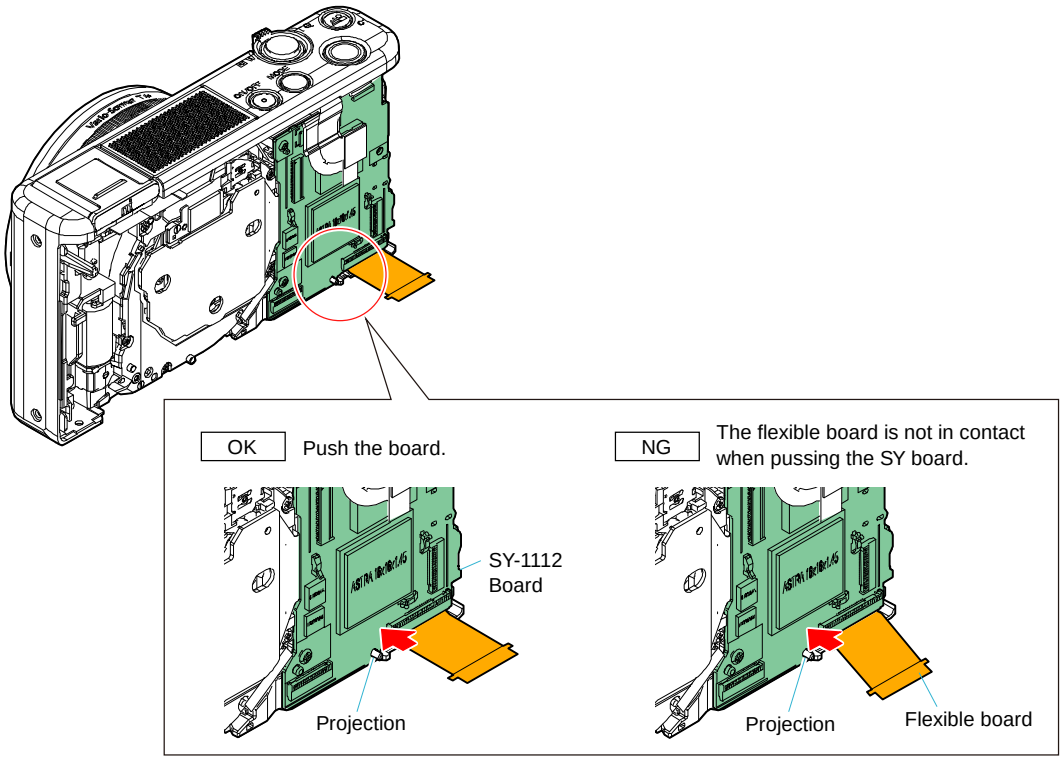
Assembly order 8

Notes on Assembling the SY-1112 Board (1)
Attach the SY-1112 board as shown in figure.



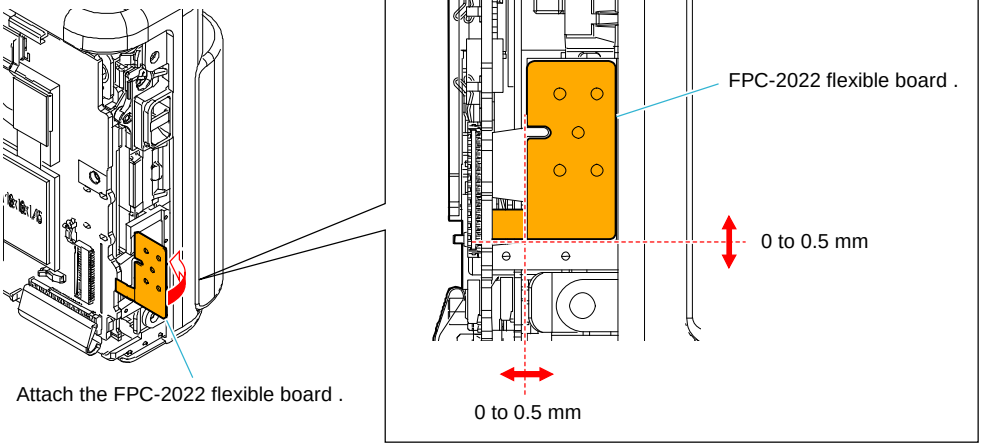
Assembly order 9

Notes on Assembling the SY-1112 Board (2)
Insert the projection to the hole of the SY-1112 board as shown in figure.

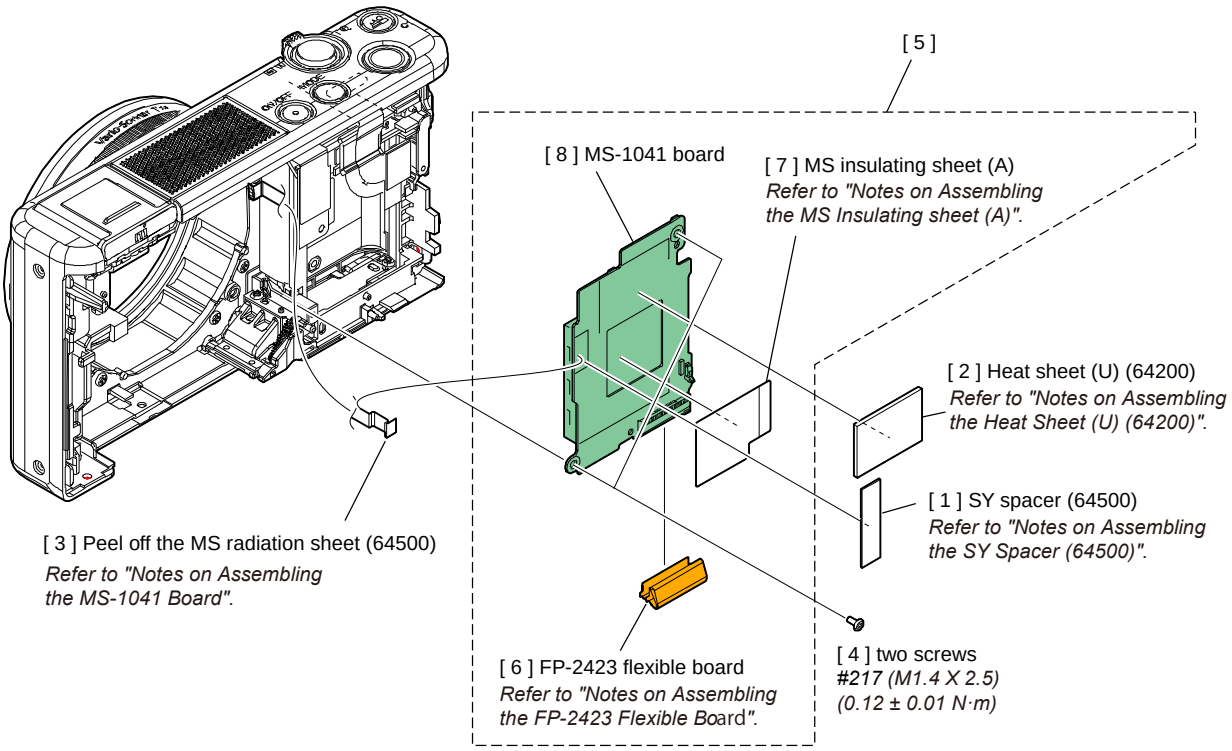


Assembly order 10

Notes on Assembling the FPC-2022 Flexible Board
Attach the FPC-2022 flexible board as shown in figure.



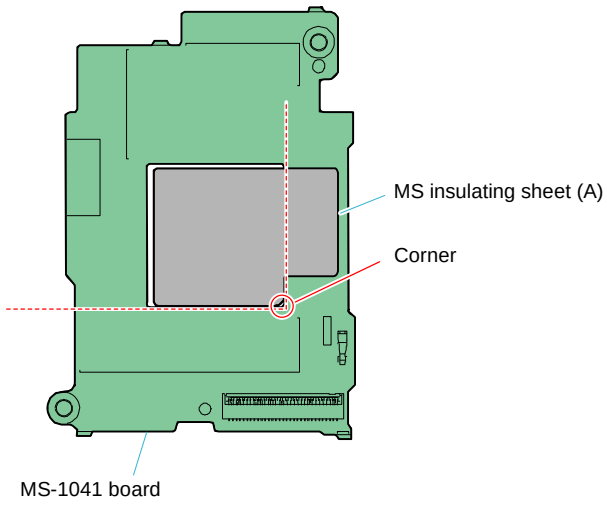
4-2-4. MS Board Section



Notes on Assembly

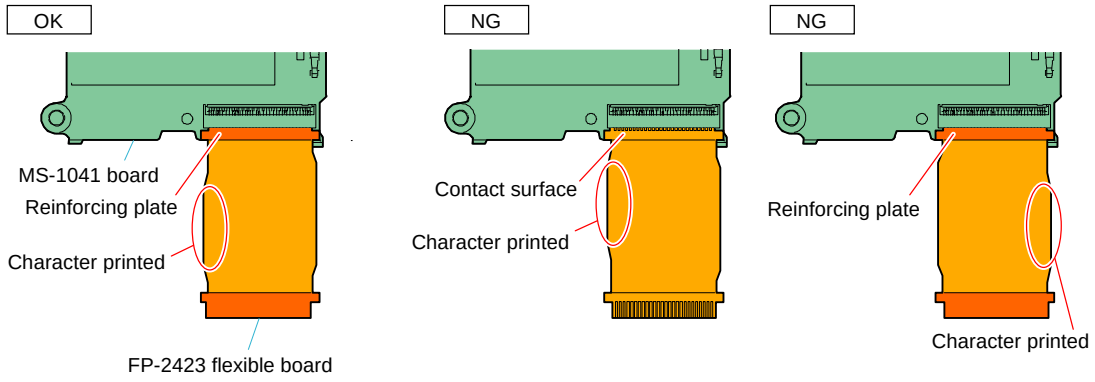
Assembly order 1

Notes on Assembling the MS Insulating Sheet (A)
Attach the MS insulating sheet (A) as shown in figure.



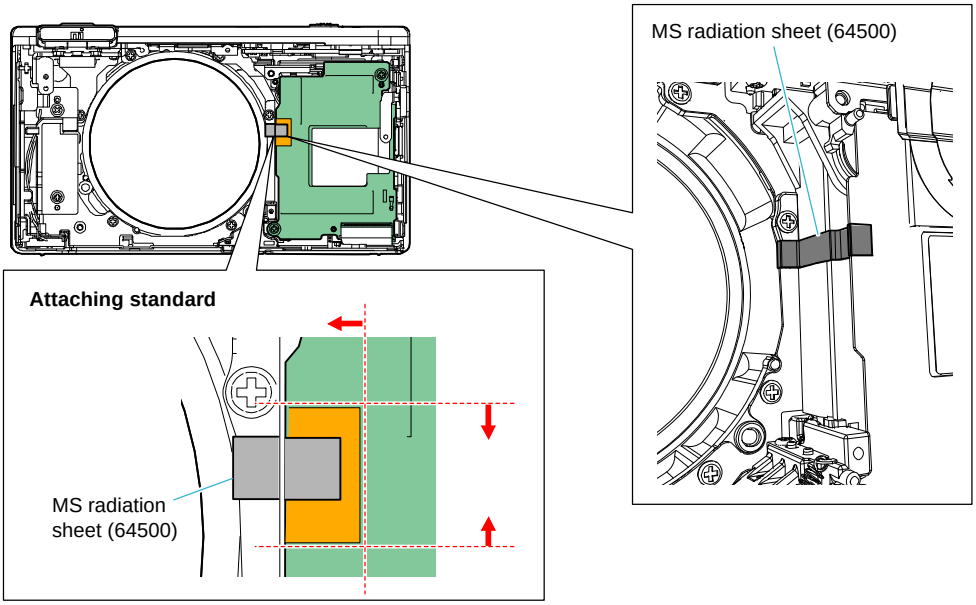
Assembly order 2

Notes on Assembling the FP-2423 Flexible Board
Attach the FP-2423 flexible board as shown in figure.



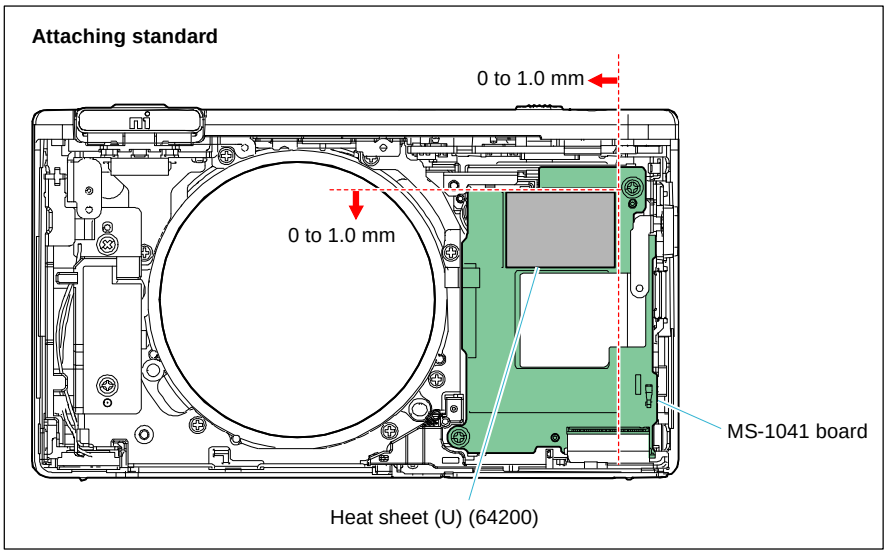
Assembly order 3

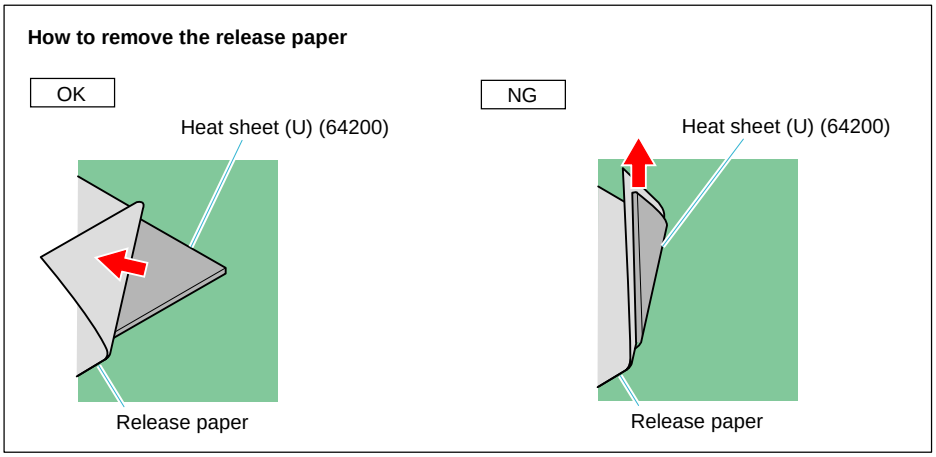
Notes on Assembling the MS-1041 Board
Attach the MS radiation sheet (64500) as shown in figure.



Assembly order 4

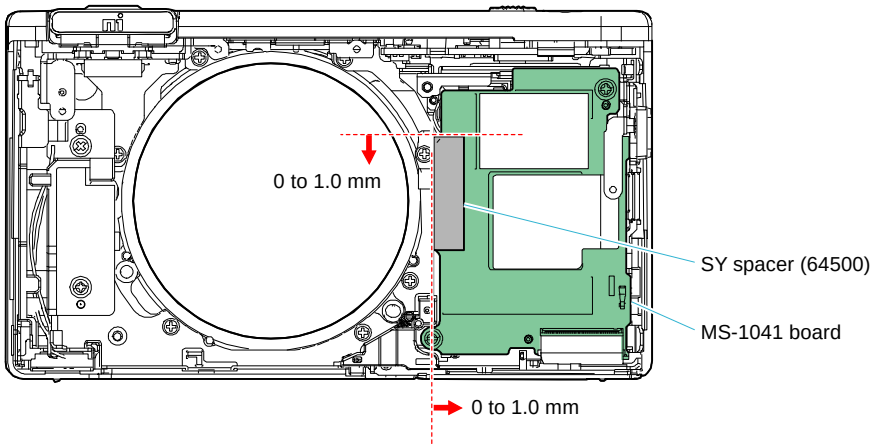
Notes on Assembling the Heat Sheet (U) (64200)
Attach the heat sheet (U) (64200) as shown in figure.



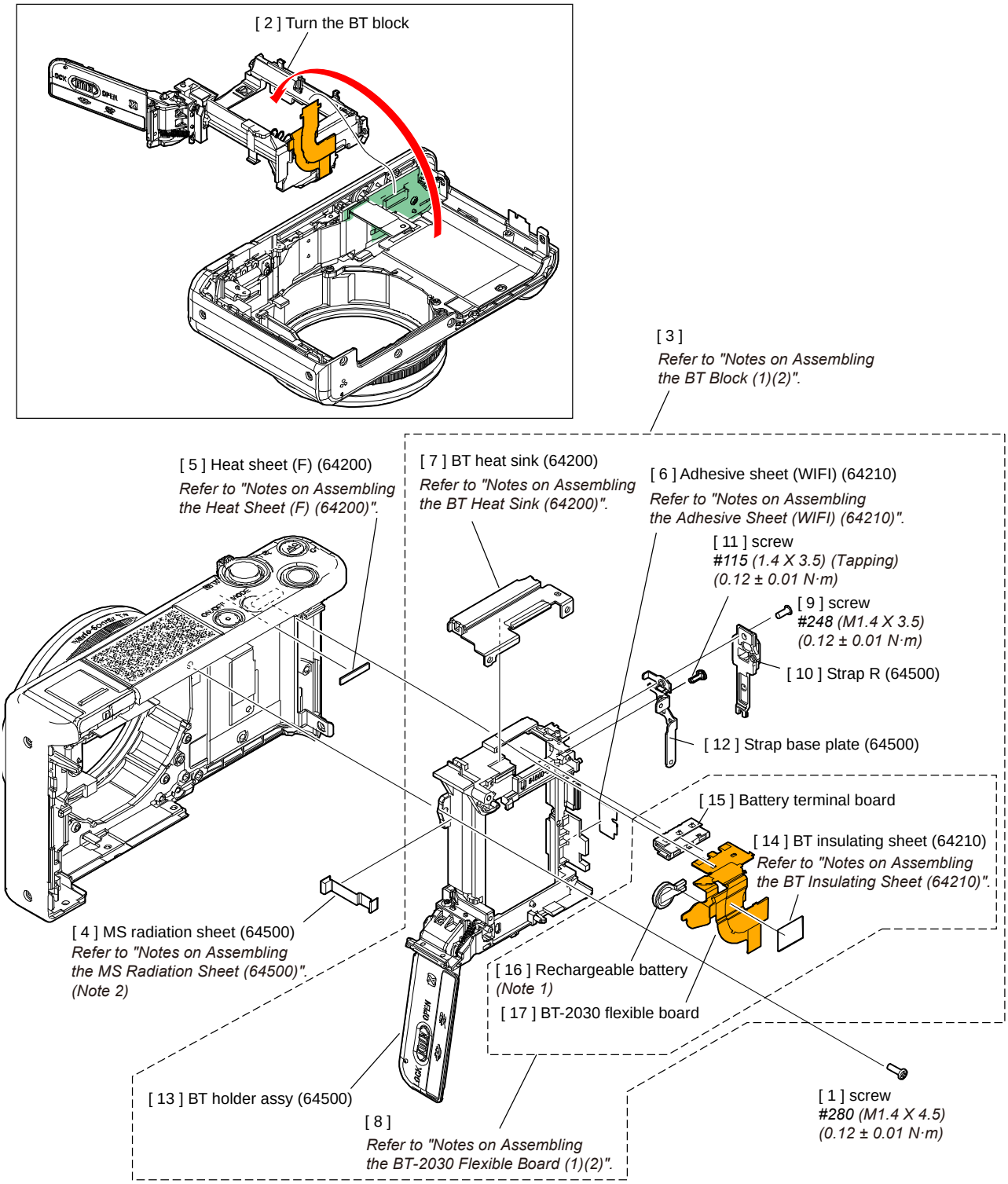


Assembly order 5

Notes on Assembling the SY Spacer (64500)
Attach the SY spacer (64500) as shown in figure.



4-2-5. BT Holder Section



Note 1

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

電池の交換は, 正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は, 取扱指示に従って処分してください。

Note 2

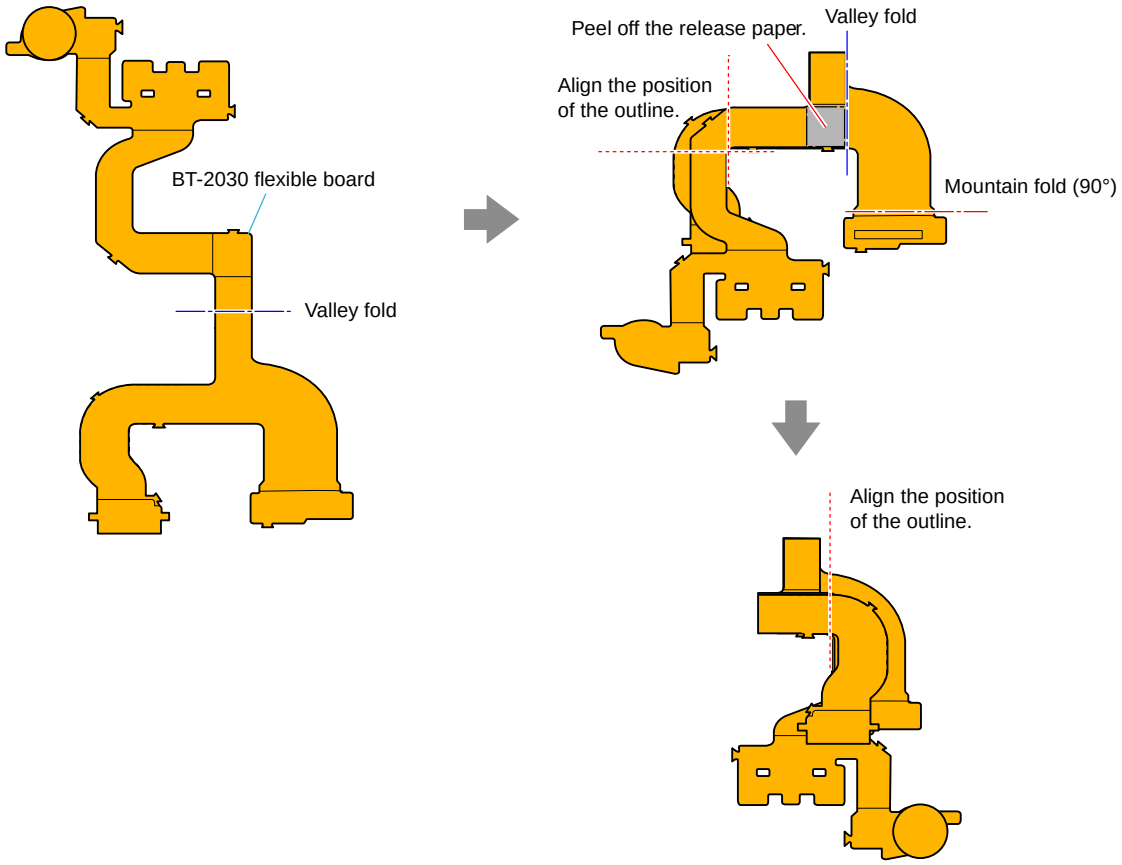
This part cannot be reused. Discard the part removed once in servicing. Instead, use a new part.

この部品は再利用することができません。
サービス対応時に一度でも外した場合は新品の部品と交換してください。

Notes on Assembly

Assembly order 1

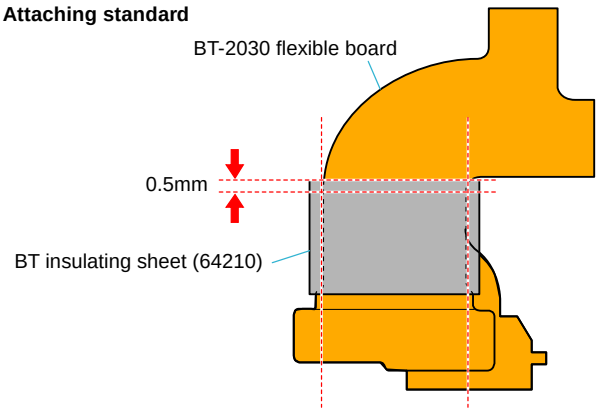
Notes on Assembling the BT-2030 Flexible Board (1)
Fold the BT-2030 flexible board as shown in figure.



Assembly order 2

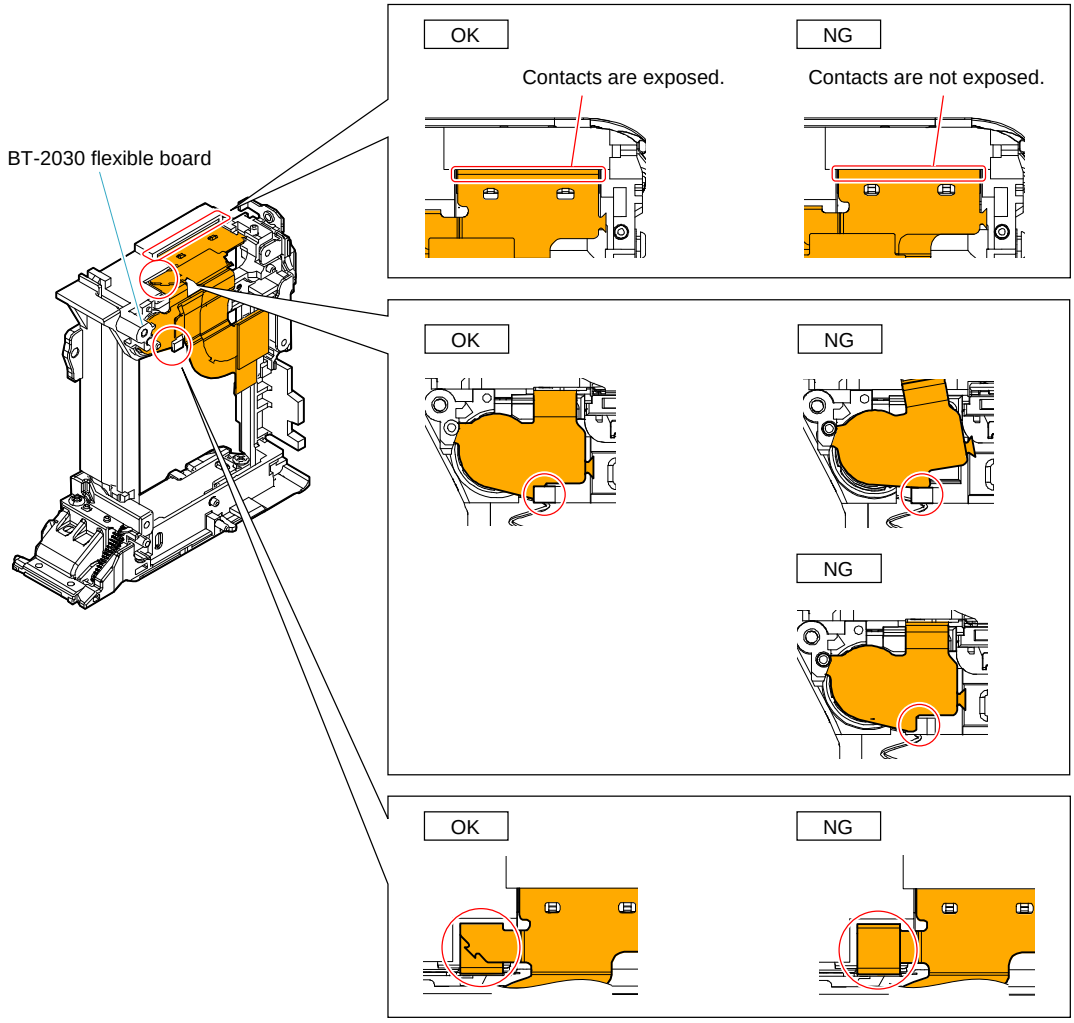
Notes on Assembling the BT Insulating Sheet (64210)
Attach the BT insulating sheet (64210) as shown in figure.

Attaching standard



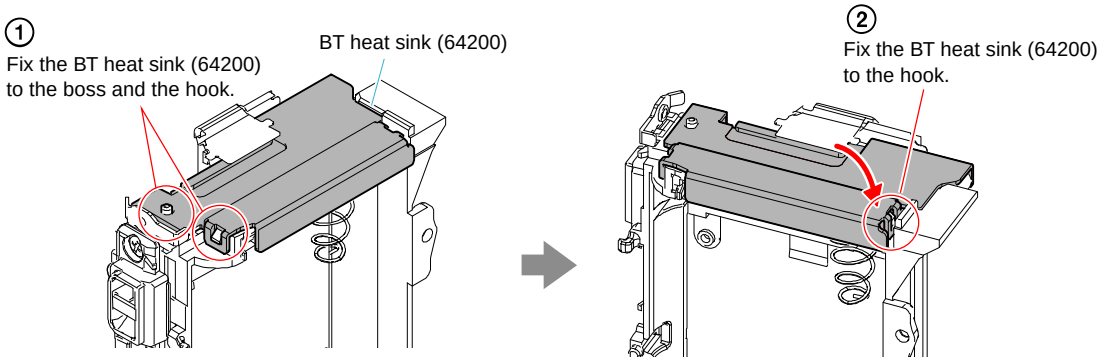
Assembly order 3

Notes on Assembling the BT-2030 Flexible Board (2)
Install the BT-2030 flexible board as shown in figure.



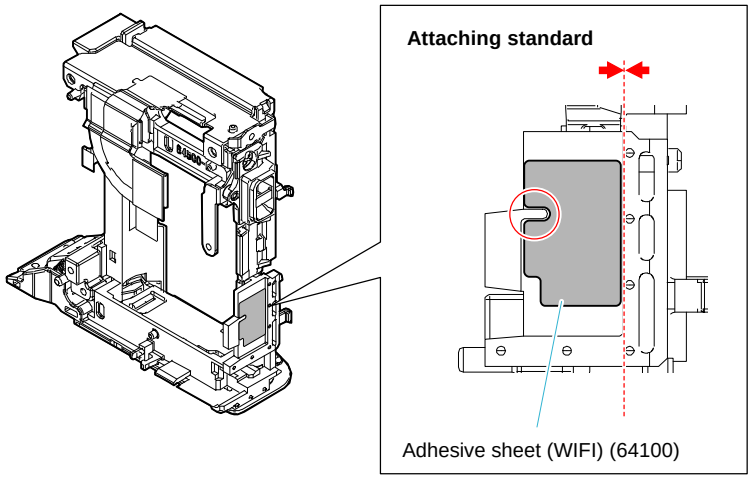
Assembly order 4

Notes on Assembling the BT Heat Sink (64200)
Attach the BT heat sink (64200) as shown in figure.



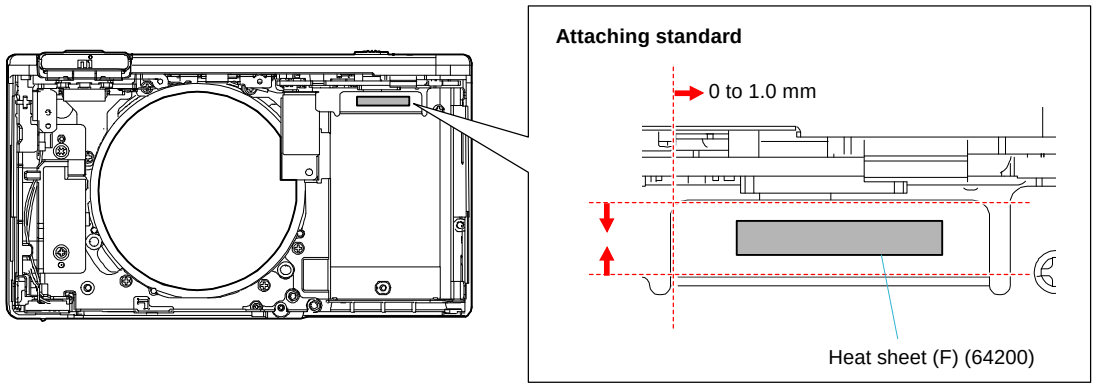
Assembly order 5

Notes on Assembling the Adhesive sheet (WIFI) (64100)
Attach the adhesive sheet (WIFI) (64100) as shown in figure.



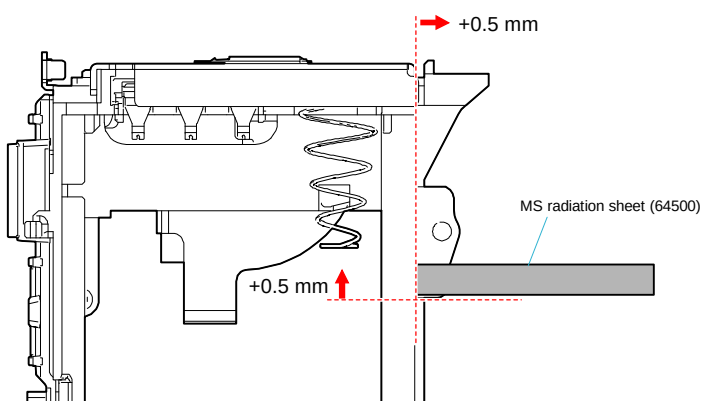
Assembly order 6

Notes on Assembling the Heat Sheet (F) (64200)
Attach the heat sheet (F) (64200) as shown in figure.



Assembly order 7

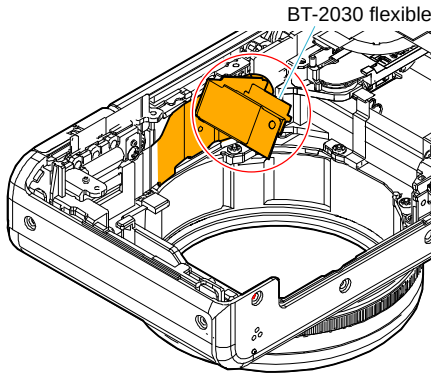
Notes on Assembling the MS Radiation Sheet (64500)
Attach the MS radiation sheet (64500) as shown in figure.



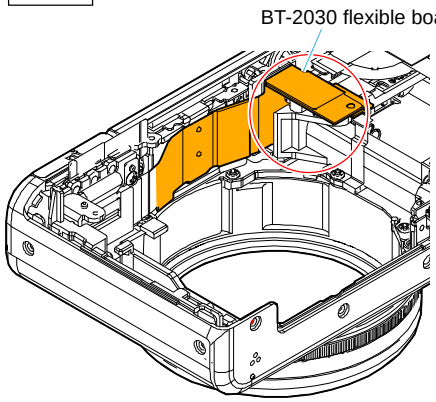
Assembly order 8

Notes on Assembling the BT Block (1)
Arrange the BT-2030 flexible board as shown in figure.

OK

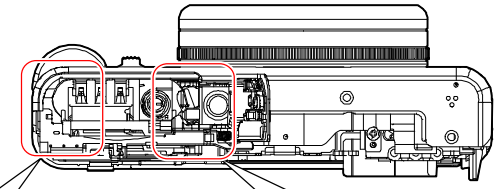


NG



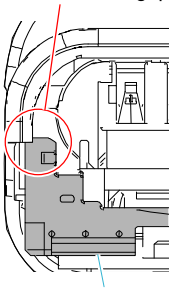
Assembly order 9

Notes on Assembling the BT Block (1)
Confirm after installing the BT block.



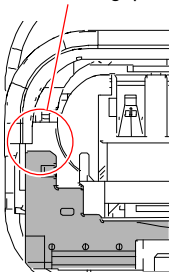
OK

There is no gap.



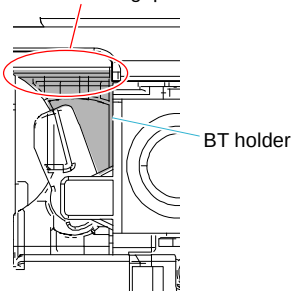
NG

There is a gap.



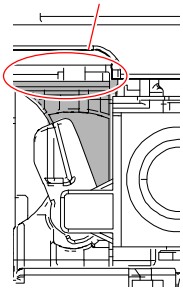
OK

There is no gap.

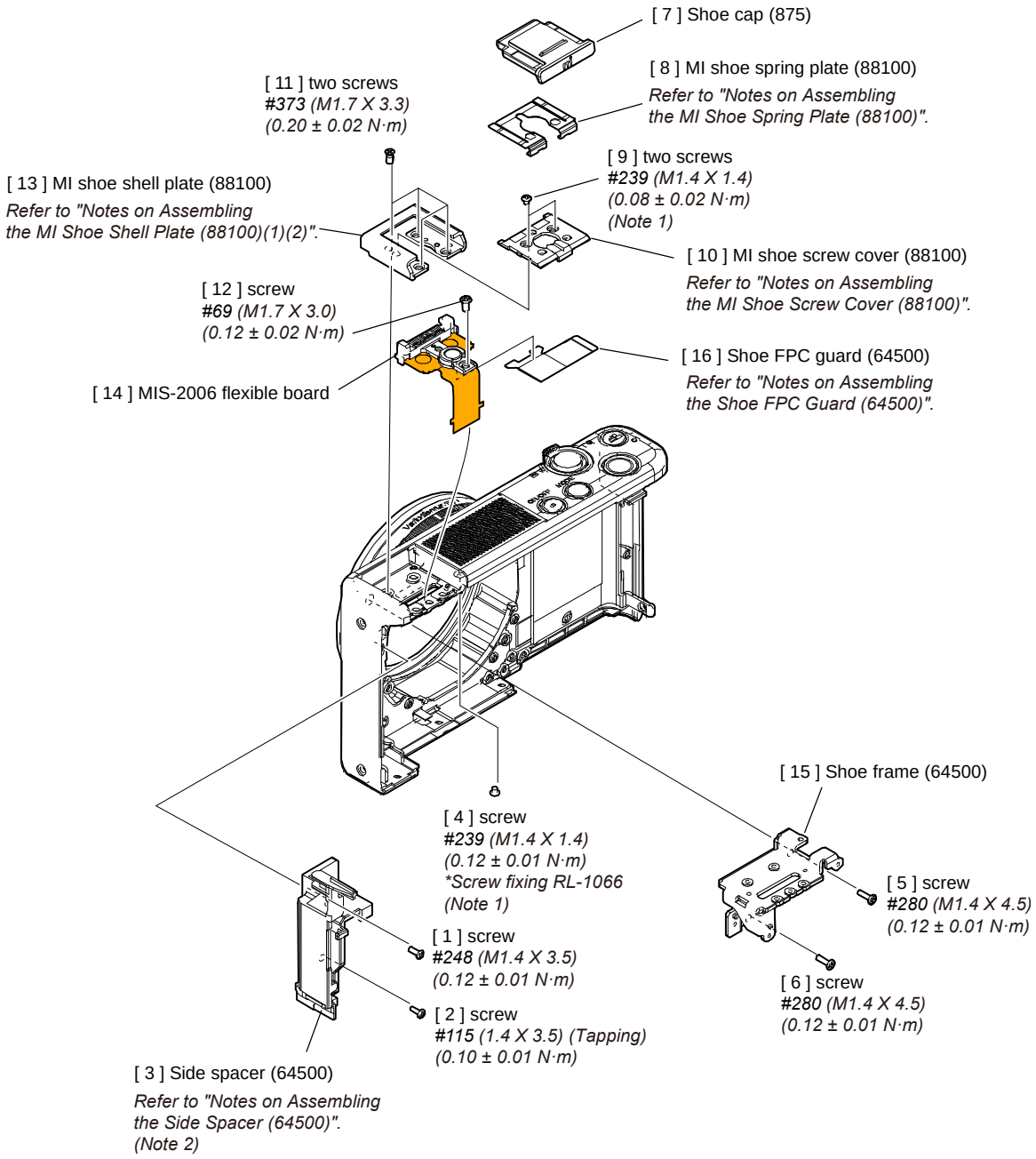


NG

There is a gap.



4-2-6. Front Section-1



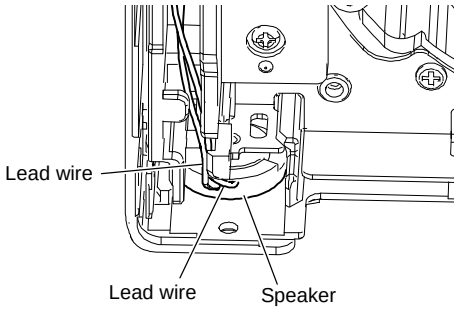
Note 1

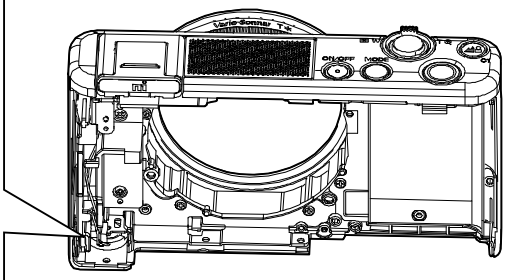
This screw cannot be reused. Discard the screw removed once in servicing. Instead, use a new screw.

このねじは再利用することができません。
サービス対応時に一度でも外した場合は新品のねじと交換してください。

Note 2

When pulling out the speaker, do not pull the lead wires.

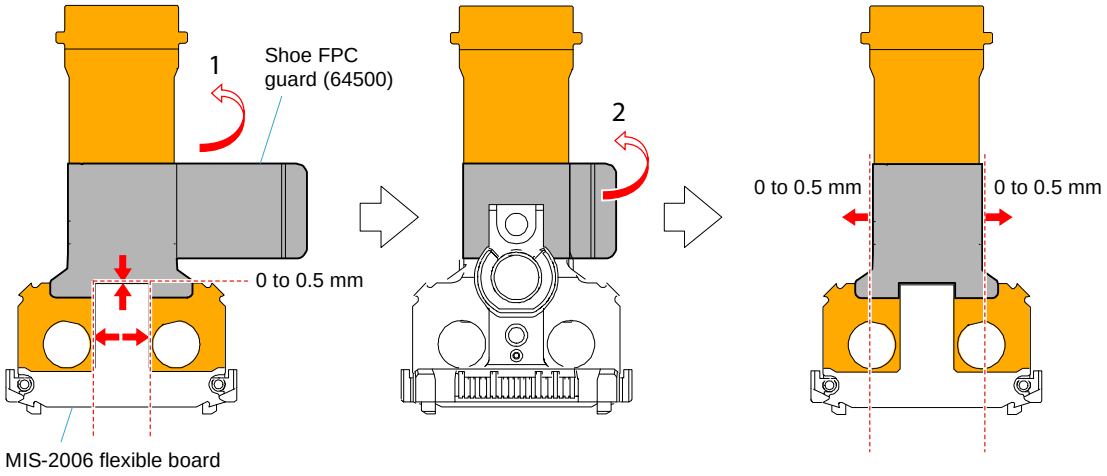




Notes on Assembly

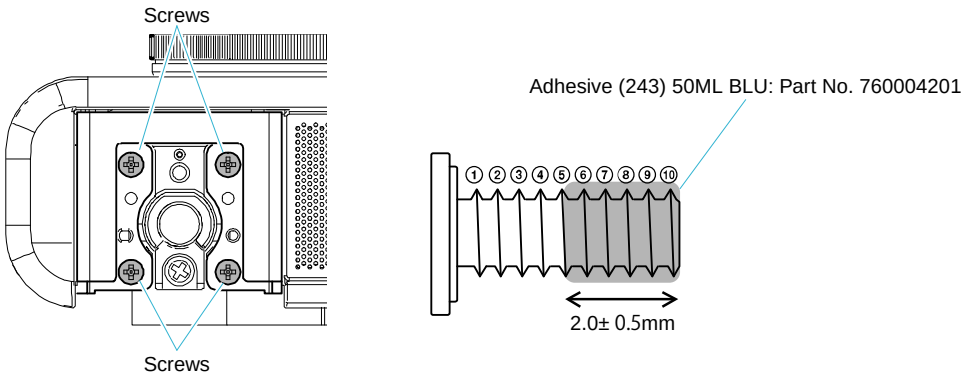
Assembly order 1

Notes on Assembling the Shoe FPC Guard (64500)
Attach the shoe FPC guard (64500) as shown in figure.



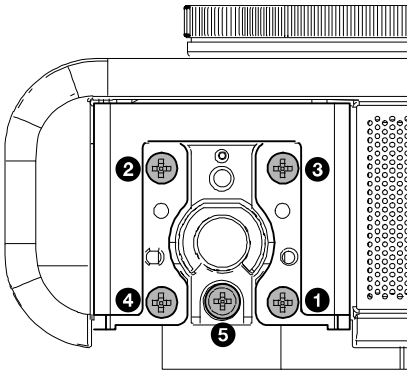
Assembly order 2

Notes on Assembling the MI Shoe Shell Plate (88100) (1)
When installing the MI shoe shell plate (88100), apply adhesive bond to screws as shown in figure.



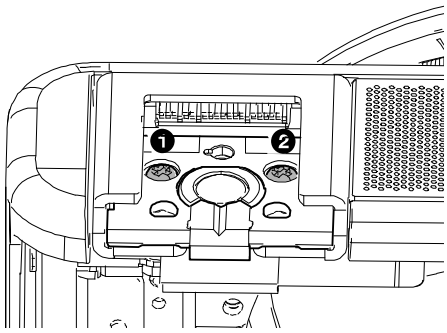
Assembly order 3

Notes on Assembling the MI Shoe Shell Plate (88100) (2)
When installing the MI shoe shell plate (88100), tighten screws in the order of (1) to (5).



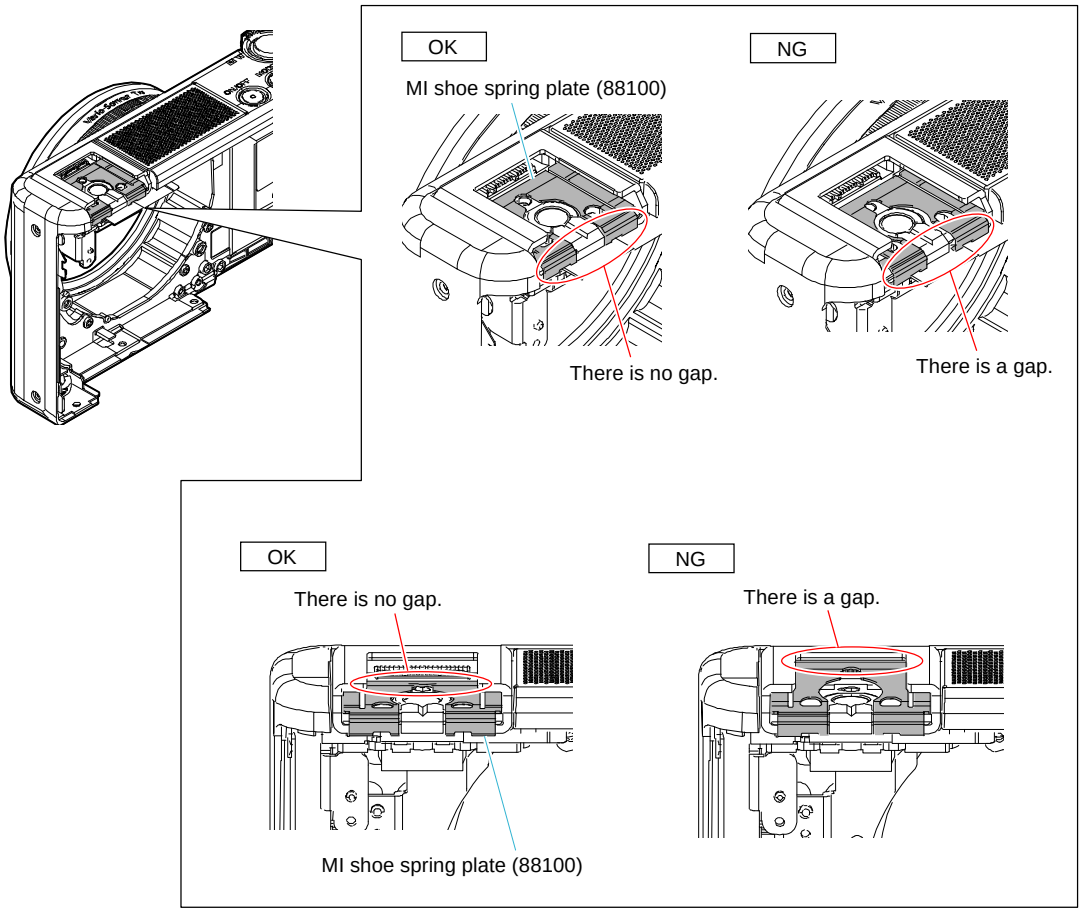
Assembly order 4

Notes on Assembling the MI Shoe Screw Cover (88100)
When installing the MI shoe screw cver (88100), tighten screws in the order of (1), (2).



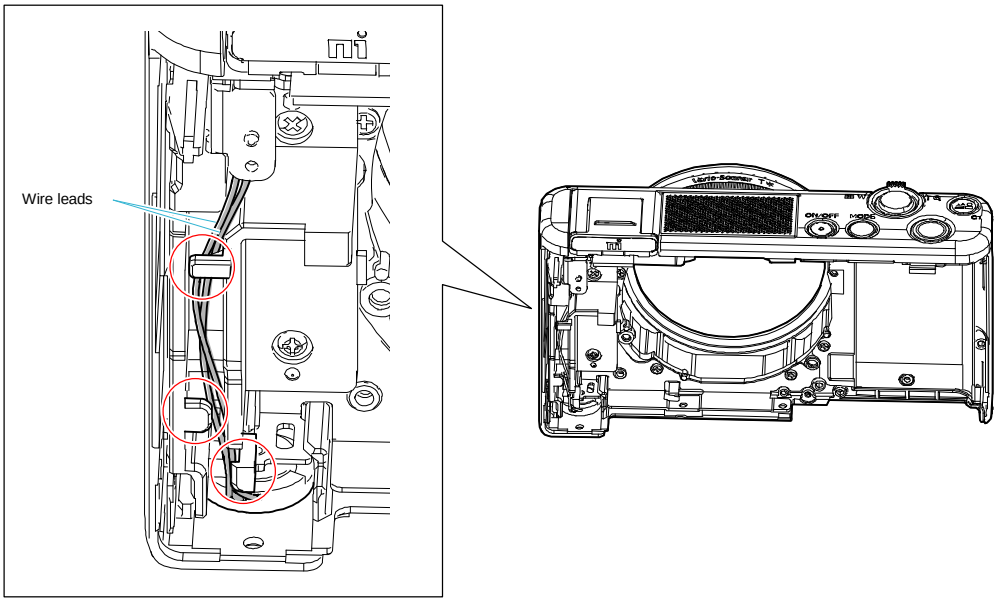
Assembly order 5

Notes on Assembling the MI Shoe Spring Plate (88100)
Confirm after installing the MI shoe spring plate (88100).

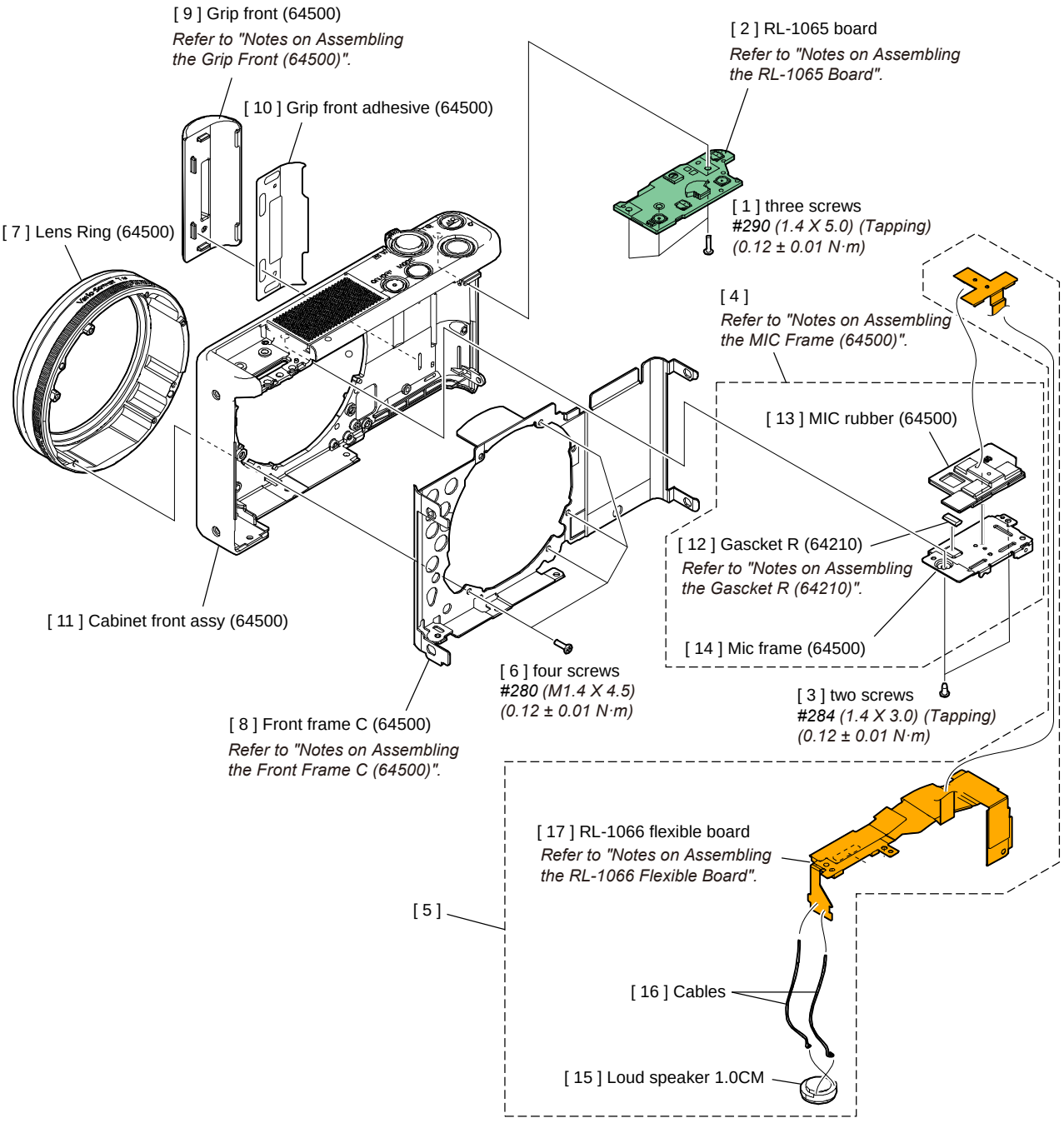


Assembly order 6

Notes on Side Spacer (64500)
Arrange the lead wires as shown in figure.



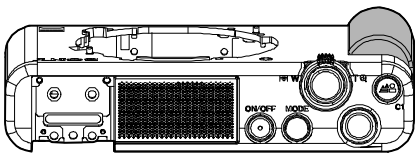
4-2-7. Front Section-2

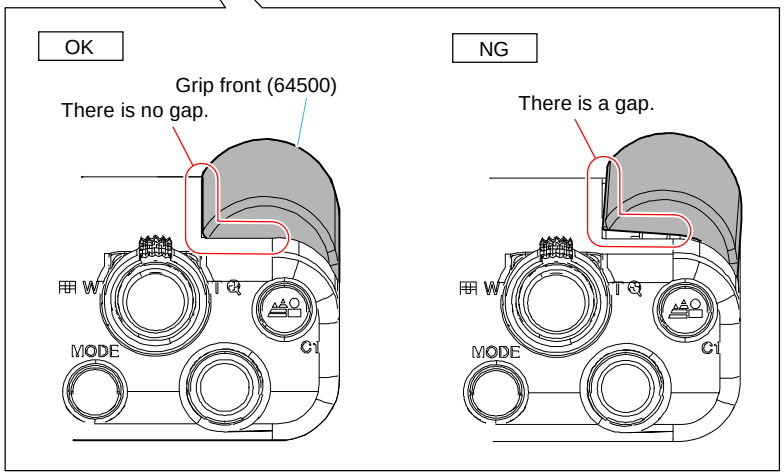


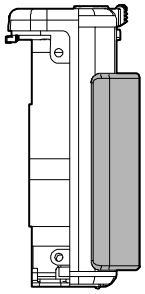
Notes on Assembly

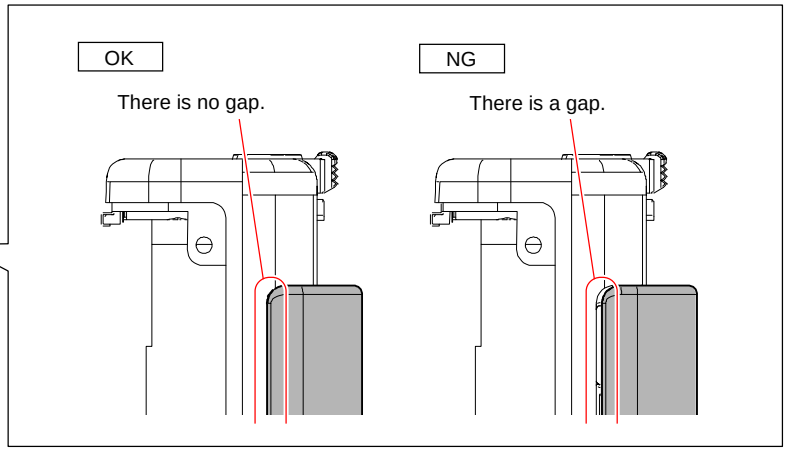
Assembly order 1

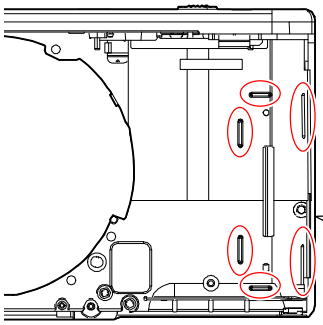
Notes on Assembling the Grip Front (64500)
Attach using grip front adhesive (64500).
Confirm after installing the grip front (64500).

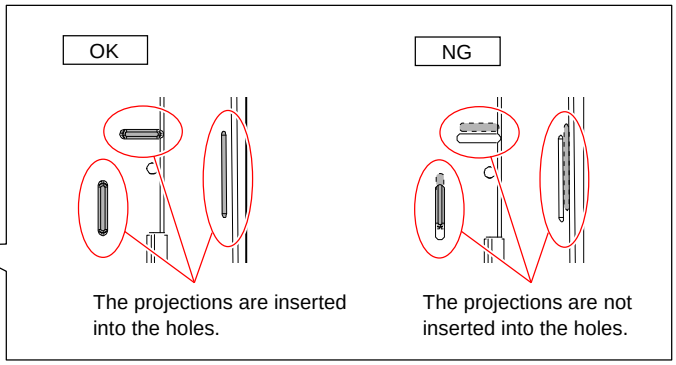






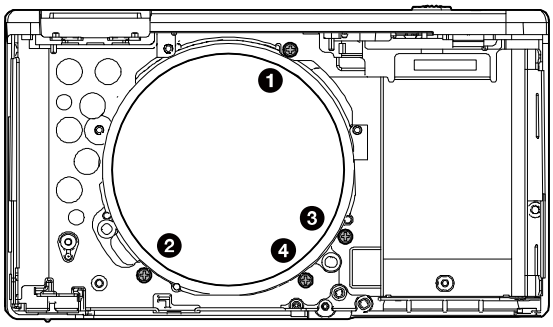






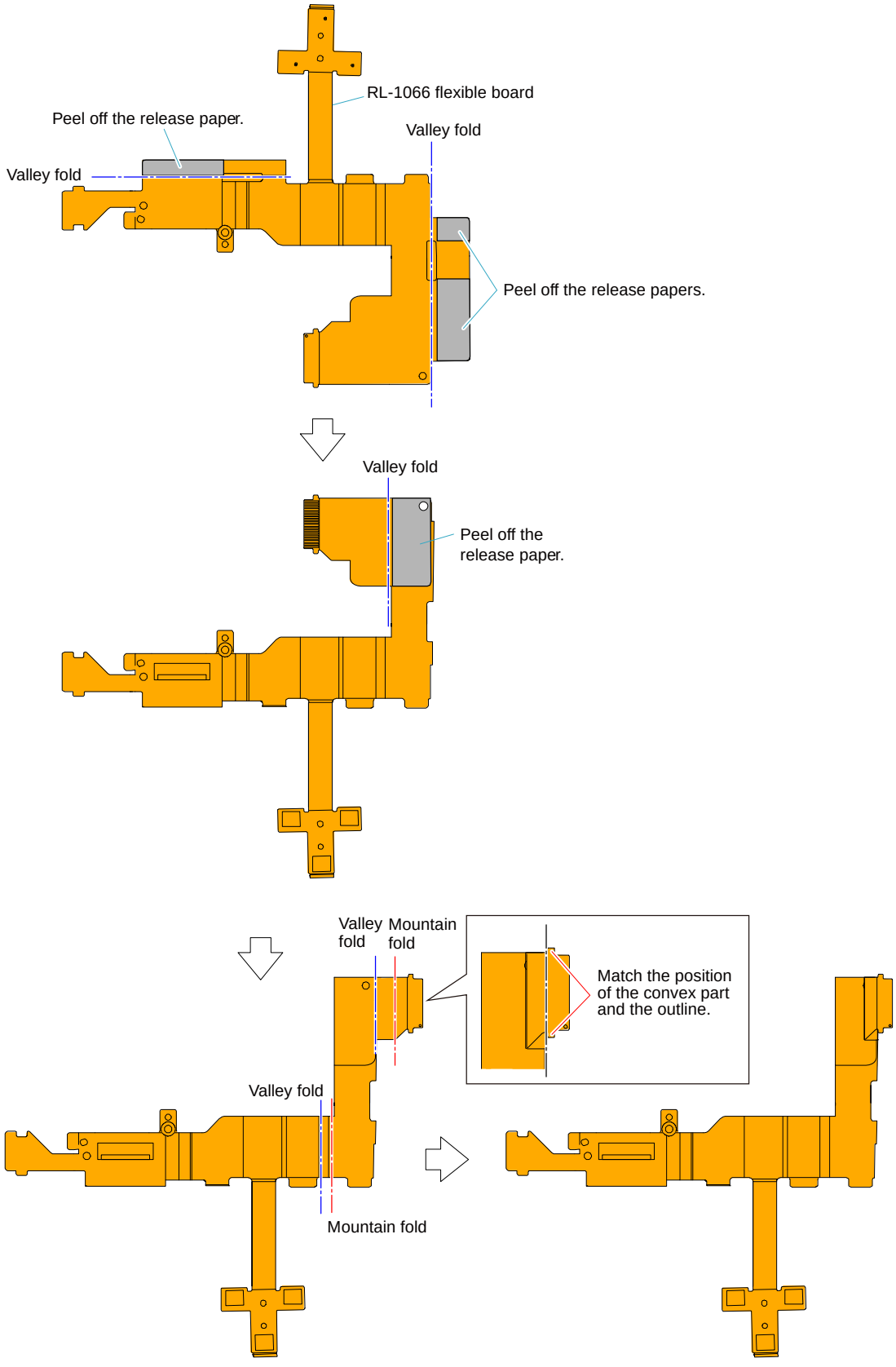
Assembly order 2

Notes on Assembling the Front Frame C (64500)
When installing the front frame C (64500), tighten screws in the order of (1) to (4).



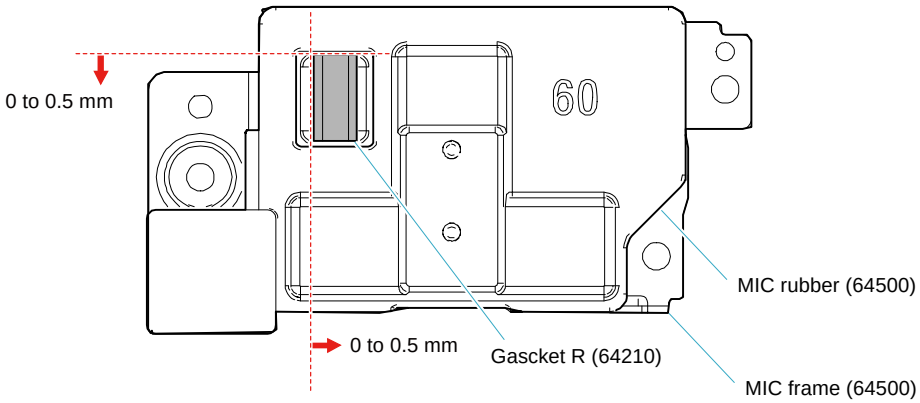
Assembly order 3

Notes on Assembling the RL-1066 Flexible Board
Fold the RL-1066 flexible board as shown in figure.



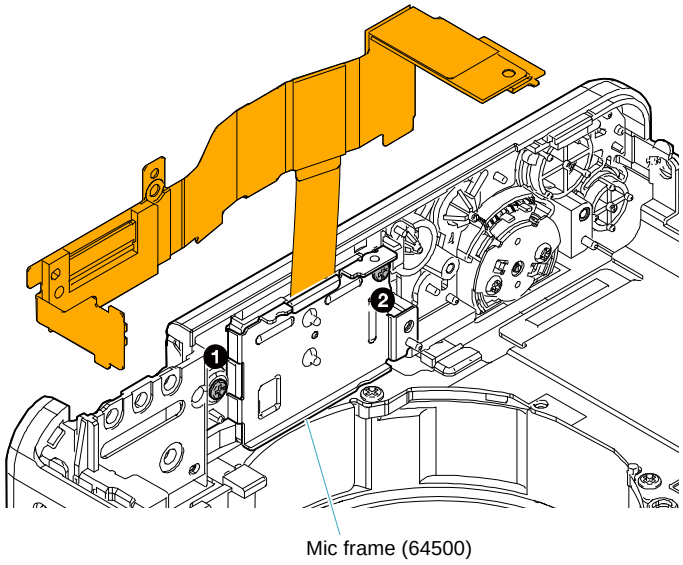
Assembly order 4

Notes on Assembling the Gascket R (64210)
Attach the gascket R (64210) as shown in figure.



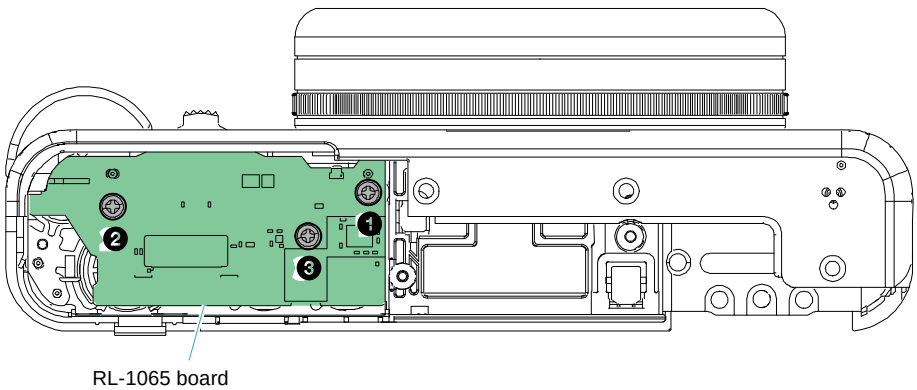
Assembly order 5

Notes on Assembling the Mic Frame (64500)
When installing the MIC frame (64500), tighten screws in the order of (1), (2).

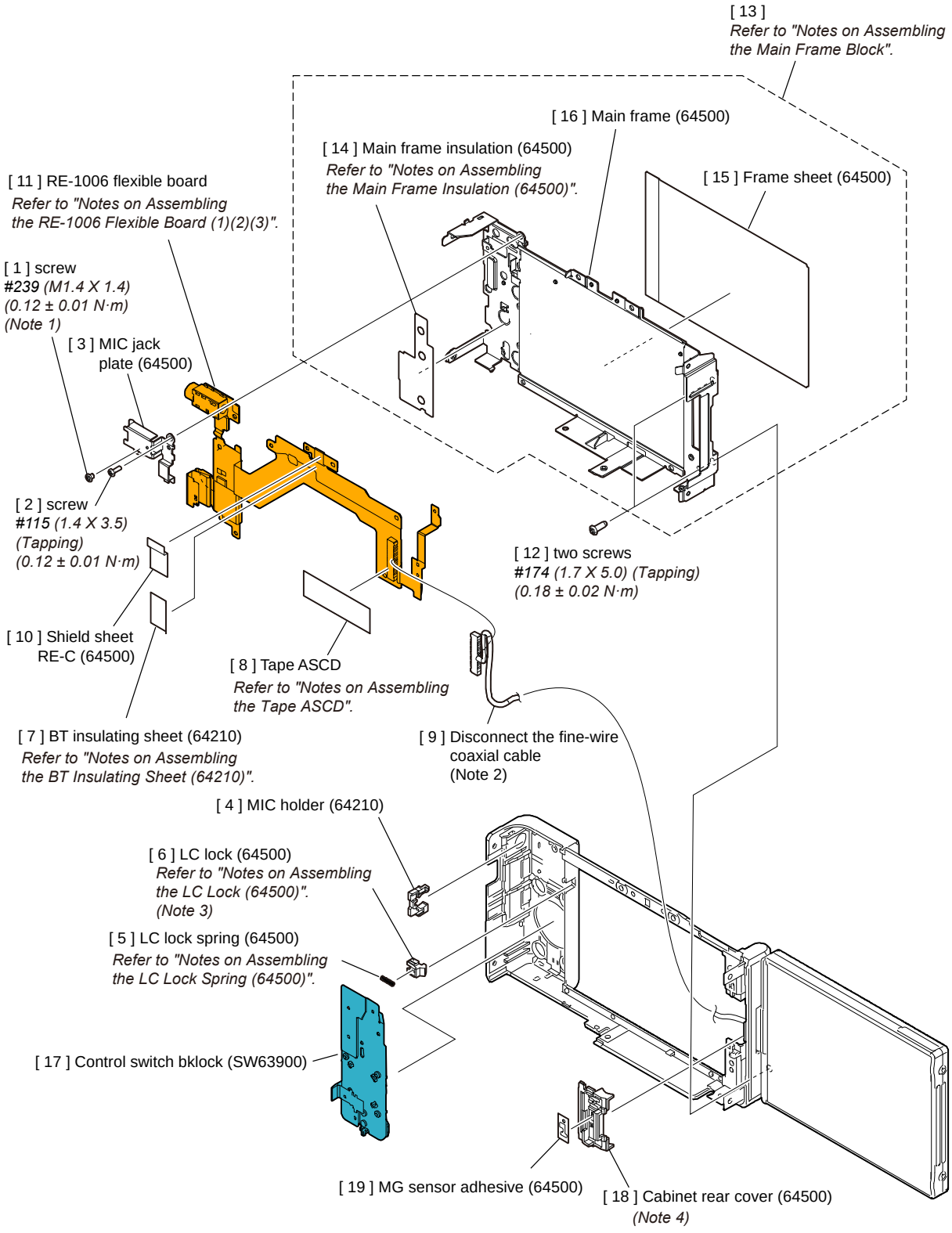


Assembly order 6

Notes on Assembling the RL-1065 Board
When installing the RL-1065 board, tighten screws in the order of (1) to (3).



4-2-8. Rear Section



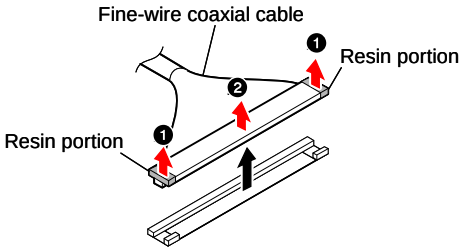
Note 1

This screw cannot be reused. Discard the screw removed once in servicing. Instead, use a new screw.

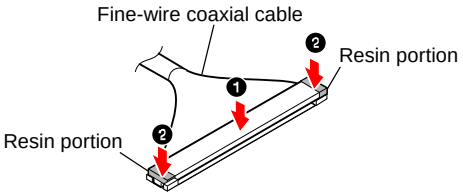
このねじは再利用することができません。
サービス対応時に一度でも外した場合は新品のねじと交換してください。

Note 2

When disconnecting the fine-wire coaxial cable,
disconnect the resin portions,
then disconnect the center portion.

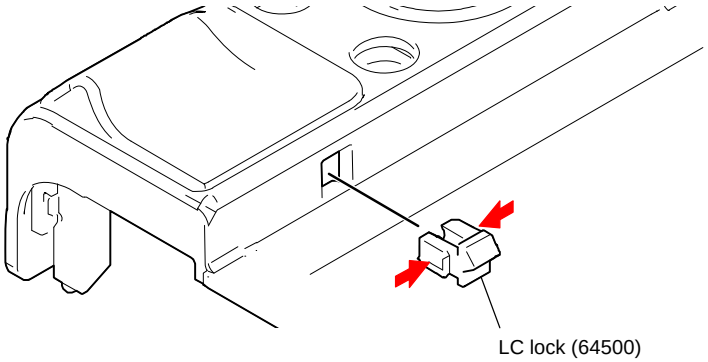


When connecting the fine-wire coaxial cable,
push the center portion,
then push the resin portions.



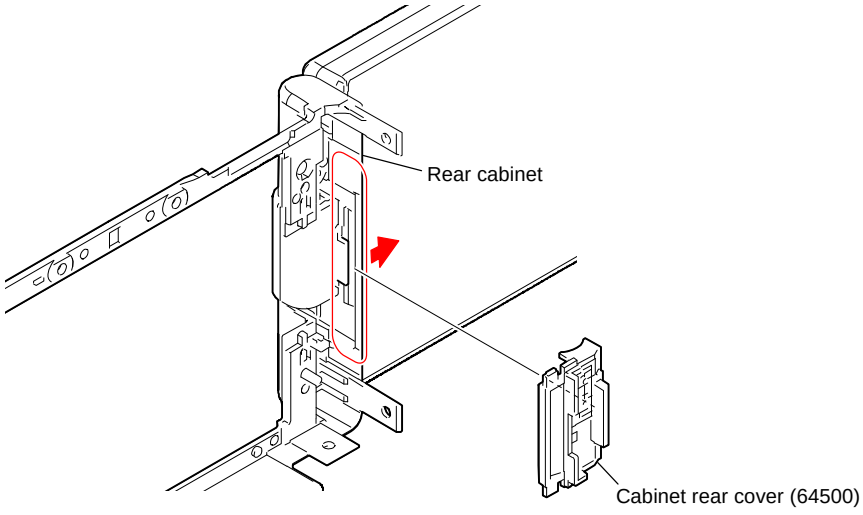
Note 3

Push the arrow points from both sides to remove and attach.
When attaching the LC lock (64500), insert the direction shown in the figure.



Note 4

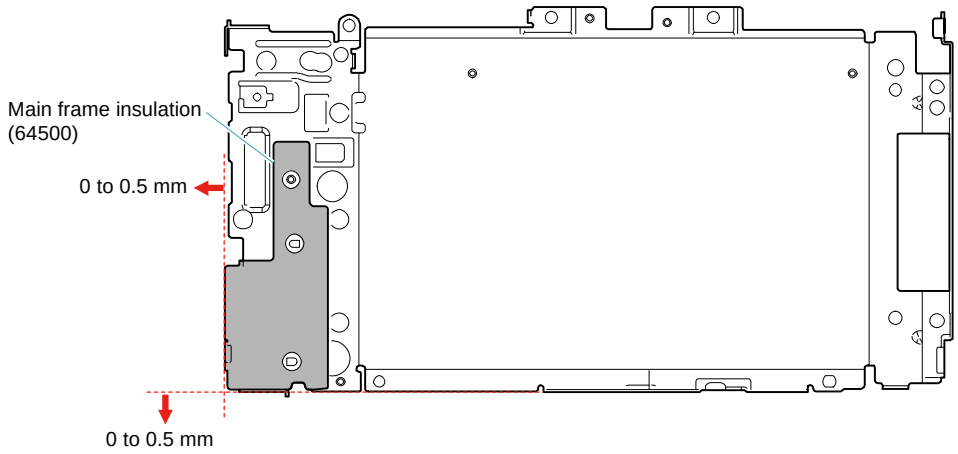
Push the rear cabinet in the direction of the arrow, then remove the cabinet rear cover (64500).



Notes on Assembly

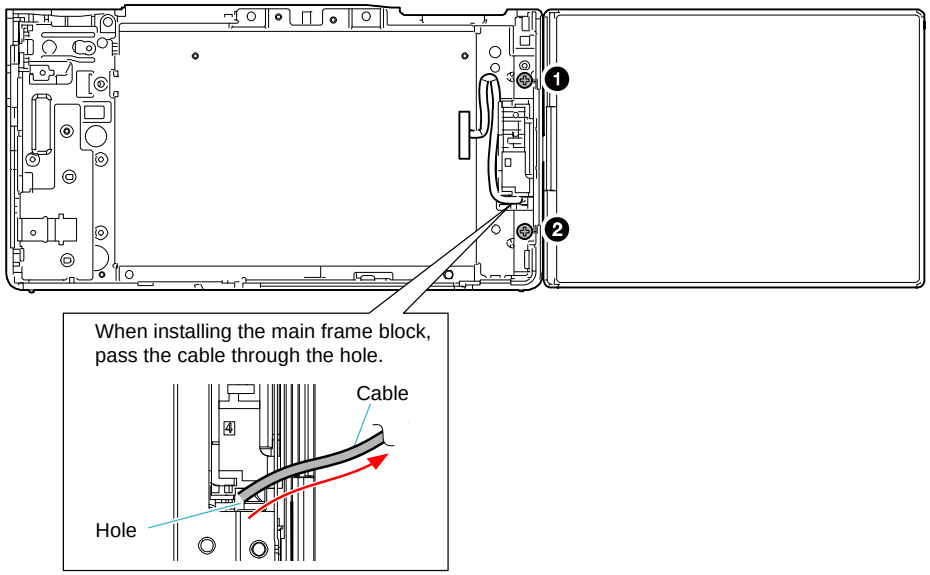
Assembly order 1

Notes on Assembling the Main Frame Insulation (64500)
Attach the main frame insulation (64500) as shown in figure.



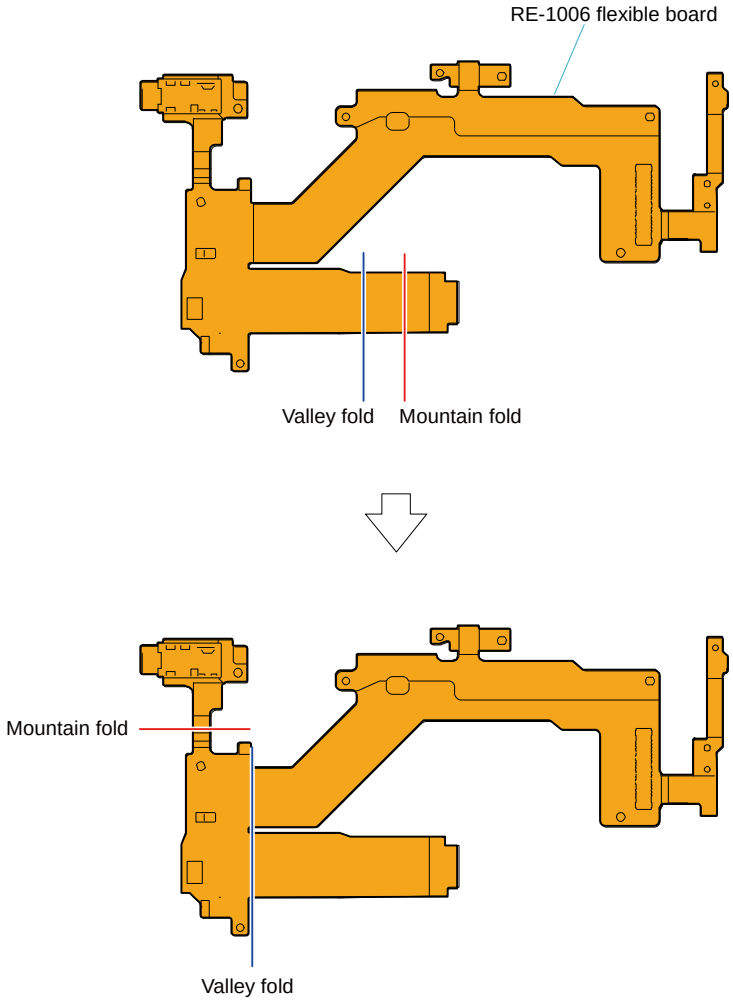
Assembly order 2

Notes on Assembling the Main Frame Block
When installing the main frame block, tighten screws in the order of (1), (2).



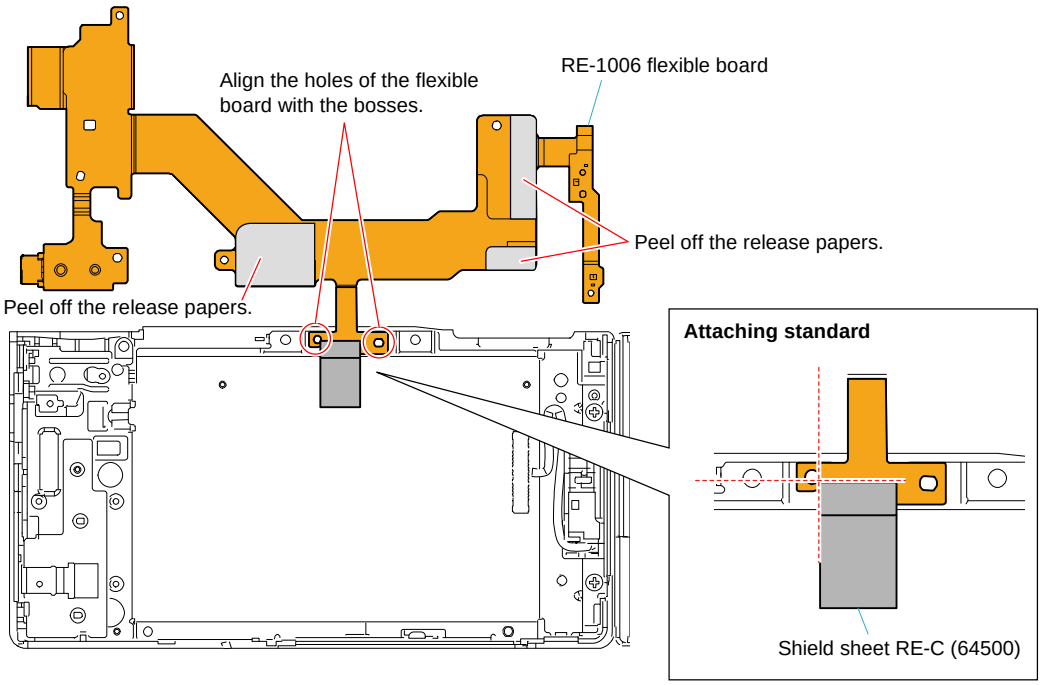
Assembly order 3

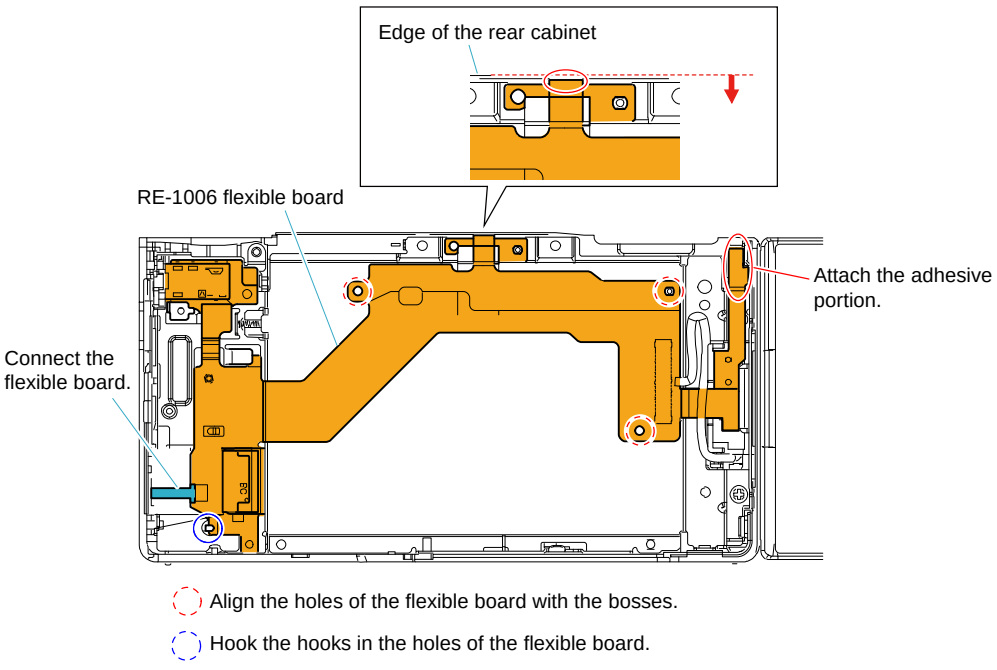
Notes on Assembling the RE-1006 Flexible Board (1)
Fold the RE-1006 flexible board as shown in figure.



Assembly order 4

Notes on Assembling the RE-1006 Flexible Board (2)
Attach the RE-1006 flexible board as shown in figure.

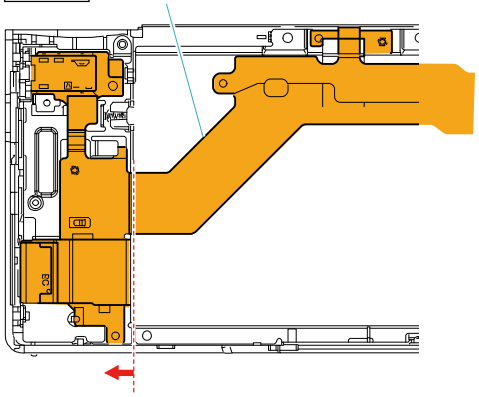




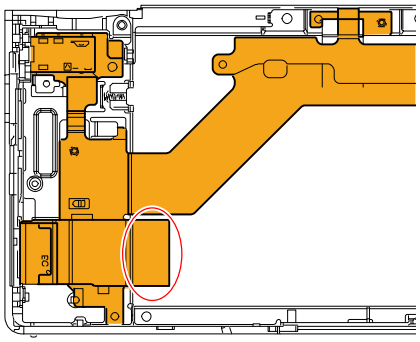
Assembly order 5

Notes on Assembling the RE-1006 Flexible Board (3)
Arrange the RE-1006 flexible board as shown in figure.

OK



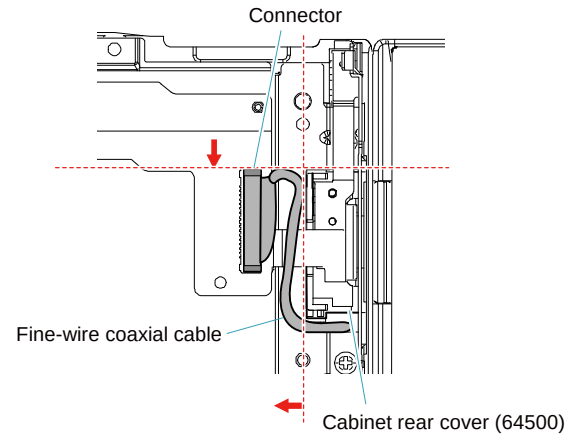
NG



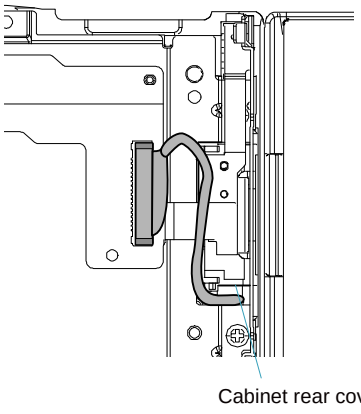
Assembly order 6

Notes on Assembling the Tape ASCD
Arrange thefine-wire coaxial cable as shown in figure.

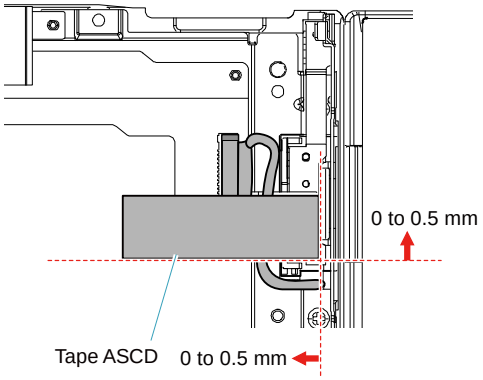
OK



NG

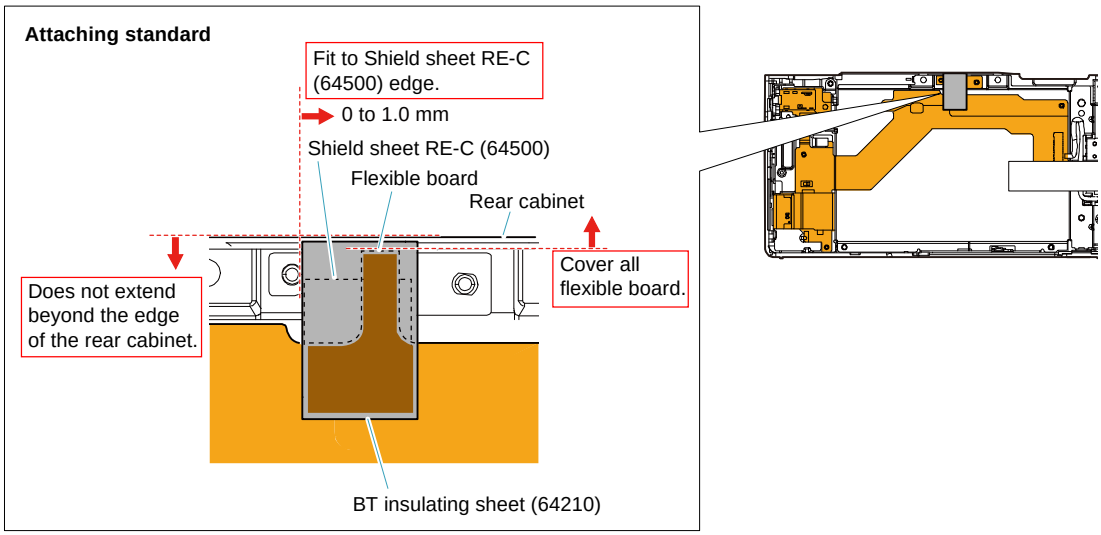


Attach the tape ASCD as shown in figure.



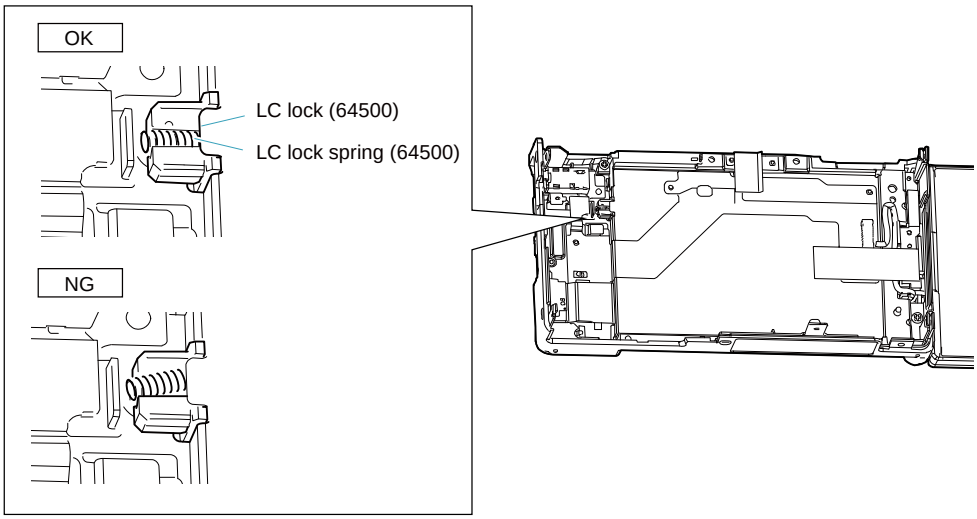
Assembly order 7

Notes on Assembling the BT Insulationg Sheet (64210)
Attach the BT insulating sheet (64210) as shown in figure.

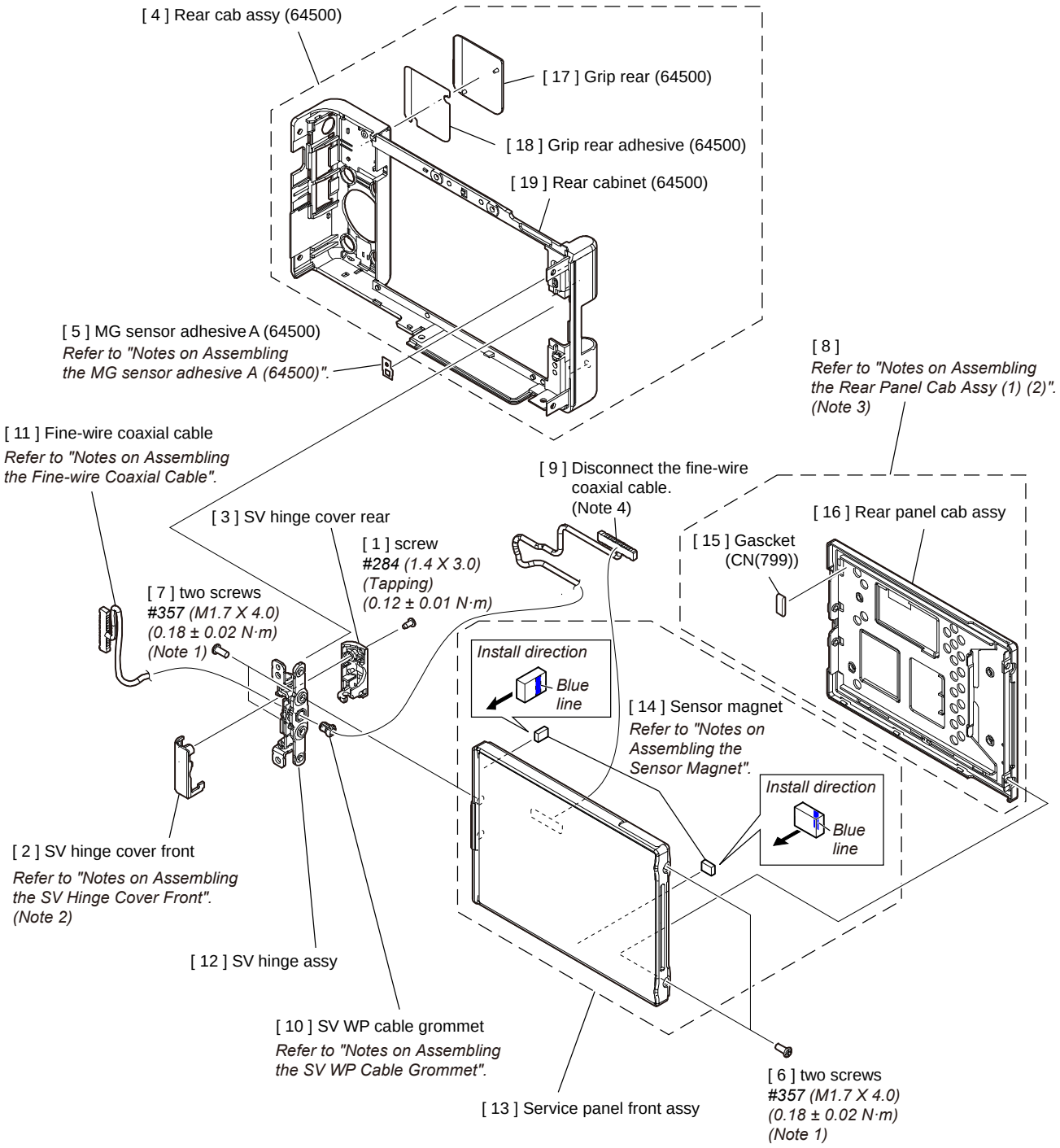


Assembly order 8

Notes on Assembling the LC Lock Spring (64500)
Confirm after installing the LC lock spring (64500).



4-2-9. LCD Section



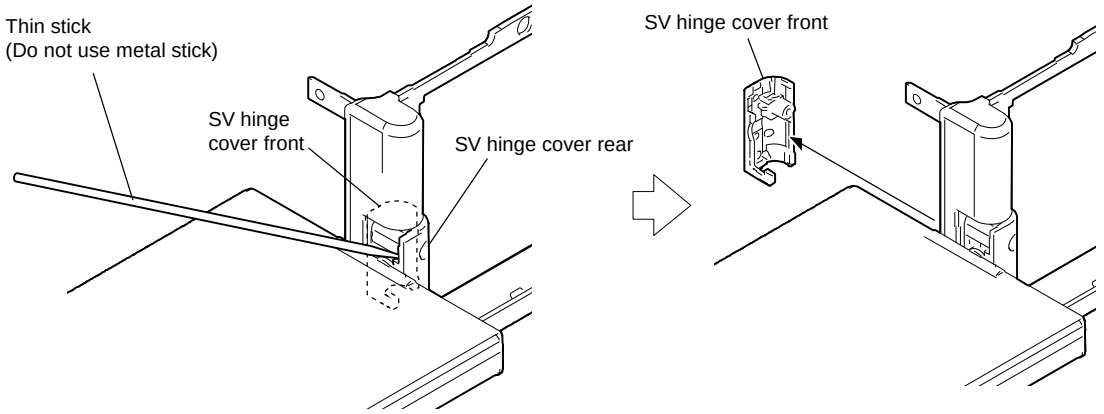
Note 1

This screw cannot be reused. Discard the screw removed once in servicing. Instead, use a new screw.

このねじは再利用することができません。
サービス対応時に一度でも外した場合は新品のねじと交換してください。

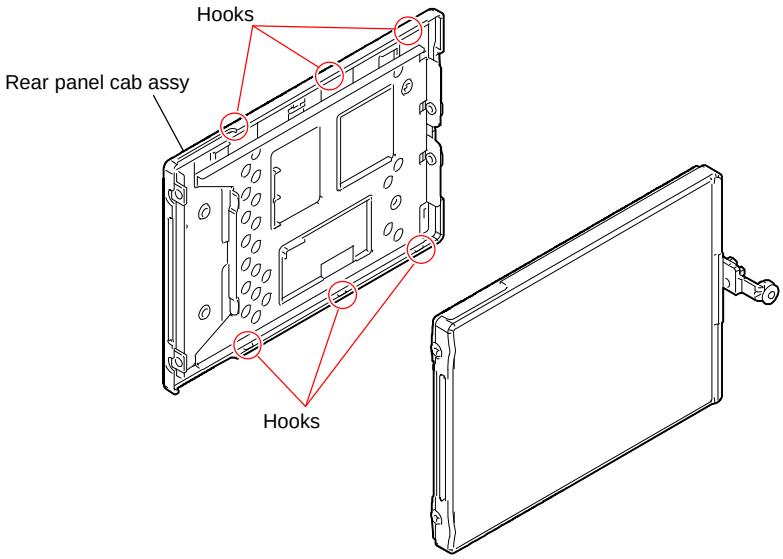
Note 2

Insert a thin stick and remove the SV hinge cover front.



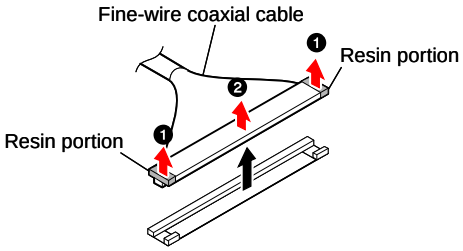
Note 3

Release the six hooks, then remove the rear panel cab assy.

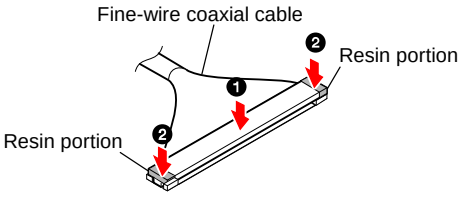


Note 4

When disconnecting the fine-wire coaxial cable,
disconnect the resin portions,
then disconnect the center portion.



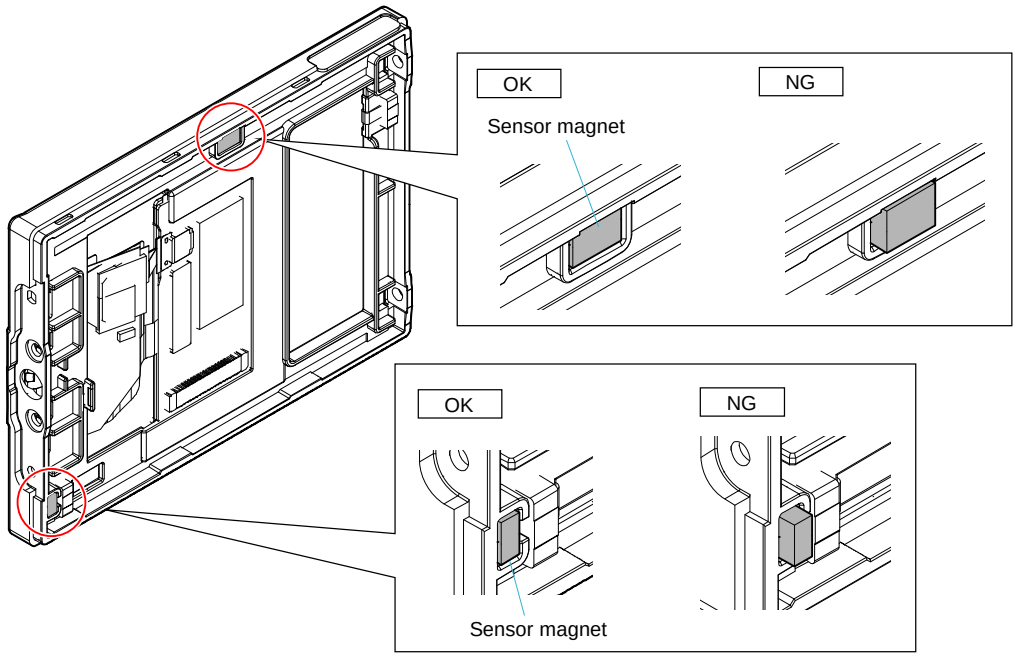
When connecting the fine-wire coaxial cable,
push the center portion,
then push the resin portions.



Notes on Assembly

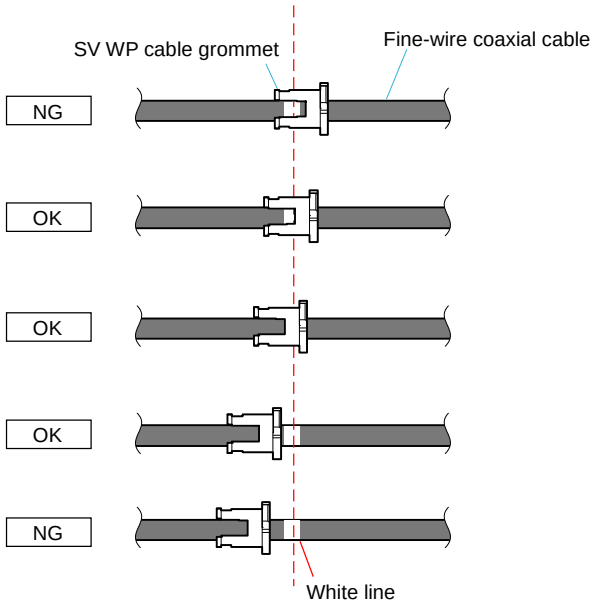
Assembly order 1

Notes on Assembling the Sensor Magnet
Attach the sensor magnet as shown in figure.



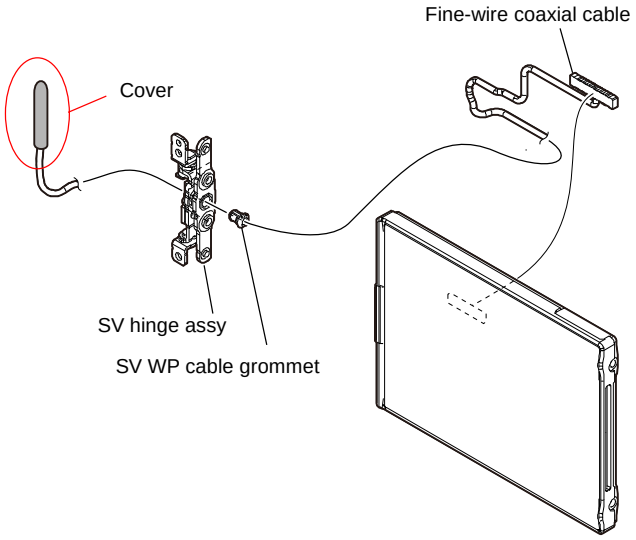
Assembly order 2

Notes on Assembling the SV WP Cable Grommet
Attach the SV WP cable grommet as shown in figure.

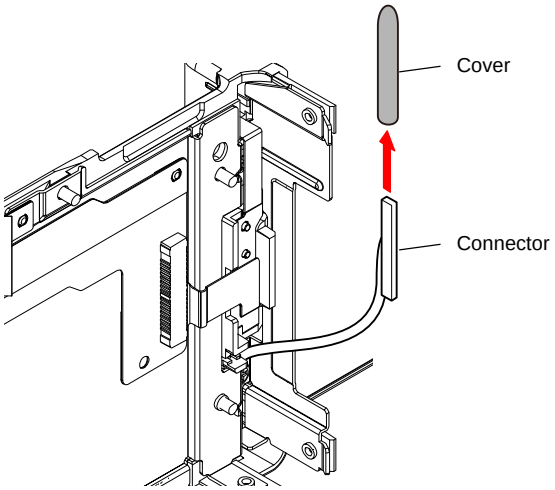


Assembly order 3

Notes on Assembling the Fine-wire coaxial cable
A new fine-wire coaxial cable has the cover on the connector.
Pass the cable through the holes of the SV hinge assy and the SV WP cable grommet with the cover on.



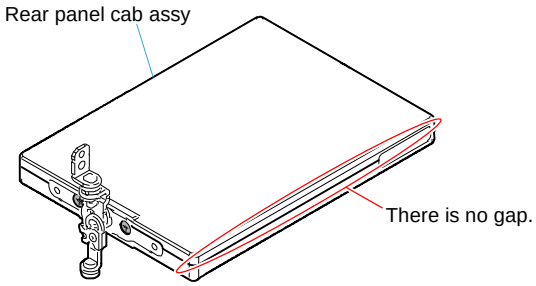
Remove the cover from the connector in the direction of the arrow.
(Be careful not to damage the cable.)



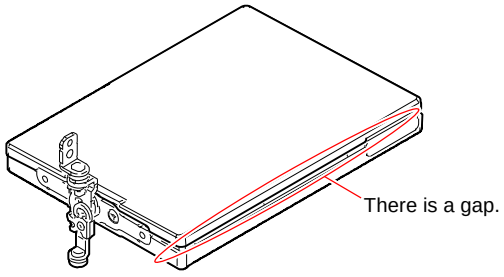
Assembly order 4

Notes on Assembling the Rear Panel Cab Assy (1)
Confirm after installing the rear panel cab assy.

OK

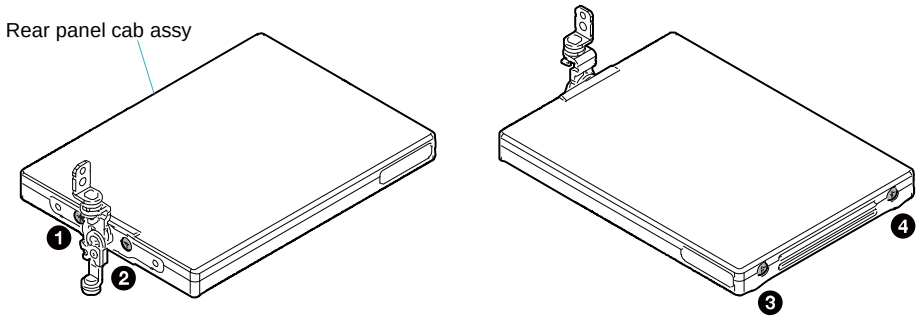


NG



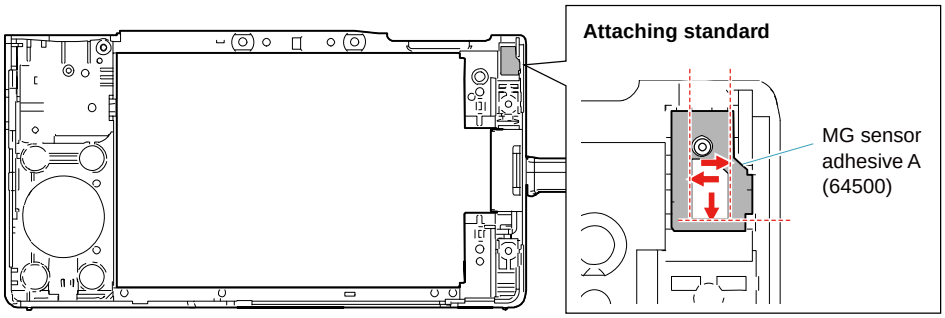
Assembly order 5

Notes on Assembling the Rear Panel Cab Assy (2)
When installing the rear panel cab assy, tighten screws in the order of (1) to (4).



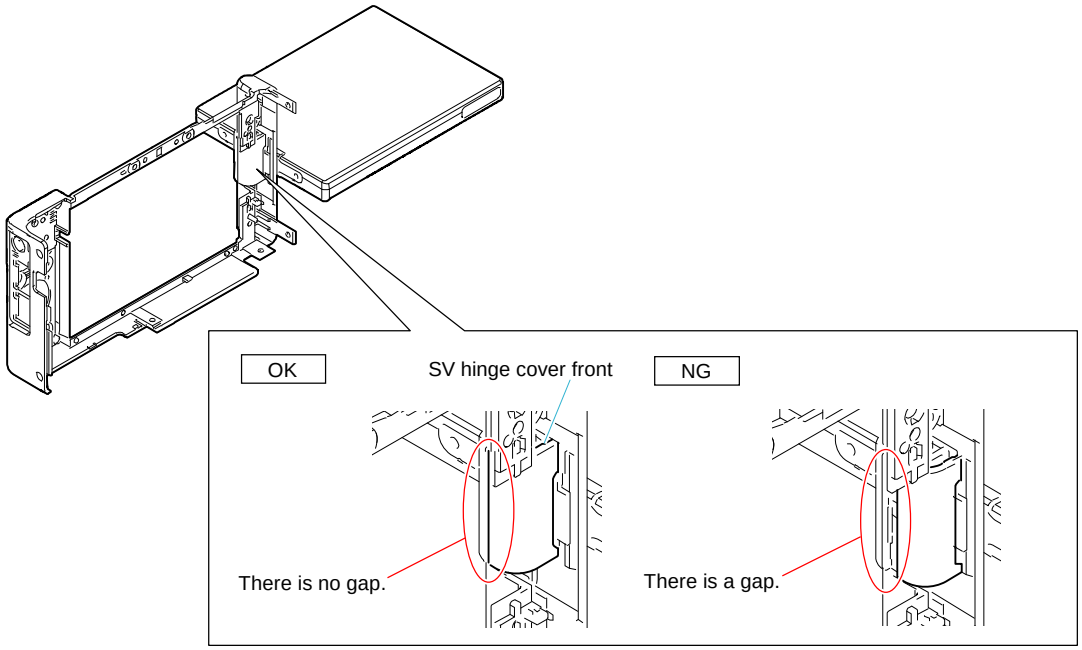
Assembly order 6

Notes on Assembling the MG Sensor Adhesive A (64500)
Attach the MG sensor adhesive A (64500) as shown in figure.



Assembly order 7

Notes on Assembling the SV Hinge Cover Front
Confirm after installing the SV hinge cover front.



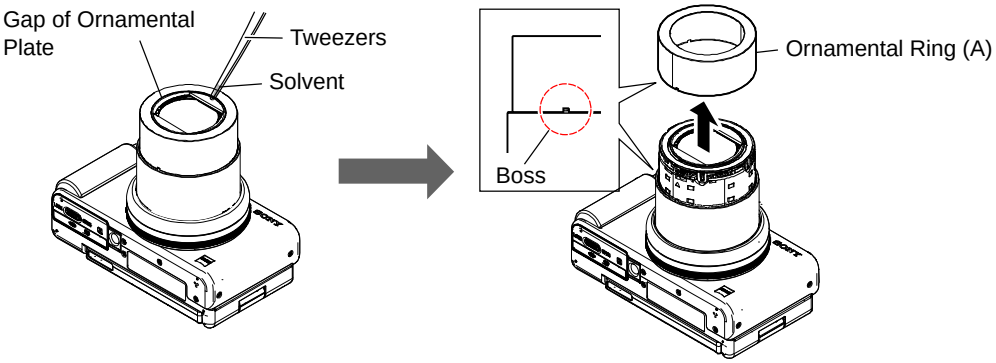
4-3. Lens Block

4-3-1. Ornamental Ring (A) or Barrier Block Assy Replacing Method

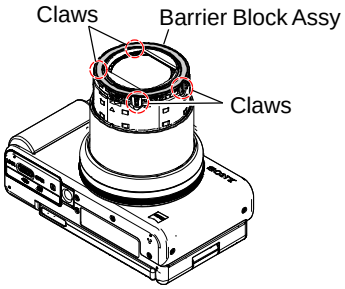
Removal

1. Turn on the power switch and extend the lens (WIDE end).
2. Detach the battery.
3. Apply alcohol to the gap of the Ornamental Plate using tweezers or fine-tipped stick as shown below.
4. Detach the Ornamental Ring (A).

Note: Do not turn the Ornamental Ring (A) because there is a Positioning Boss. Detach the Ornamental Ring (A) in the arrow direction.	**Note:** Ornamental Ring (A)は, 位置決めのボスがあるため, 左右にひねらず矢印方向に取り外してください。

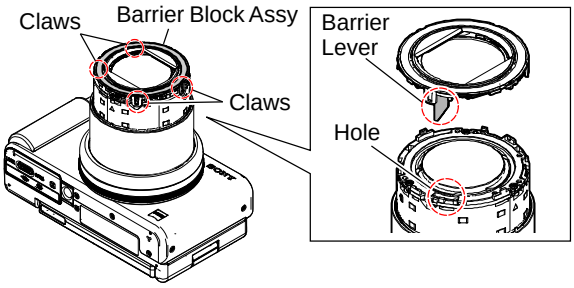


5. Disengage the four claws and remove the Barrier Block Assy.

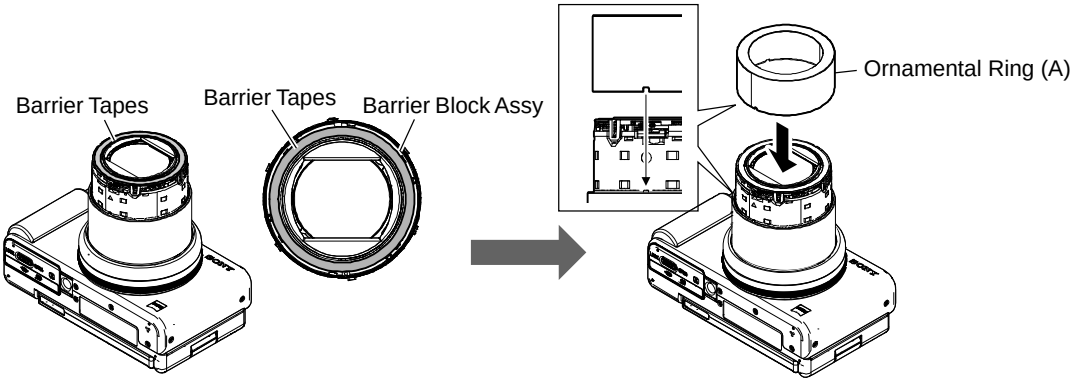


Installation

1. Fit the four claws while inserting the barrier lever into the hole and attach the Barrier Block Assy.



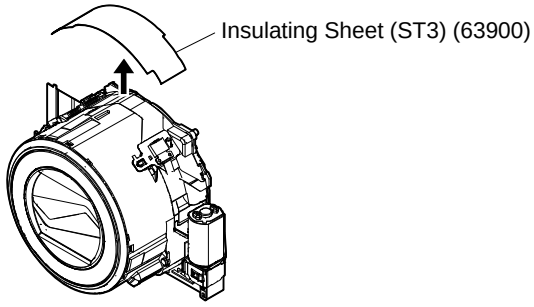
2. Peel off the release paper of the Barrier Tape.
3. Install the Ornamental Ring (A) and press it lightly.



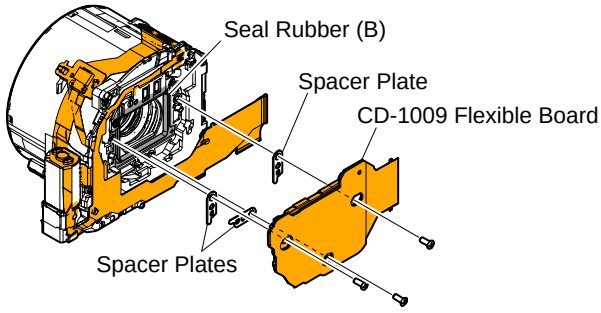
4-3-2. Group Frame Block Assy Replacing Method

Removal

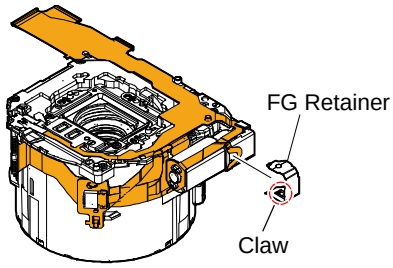
1. Peel off the Insulating Sheet (ST3) (63900).



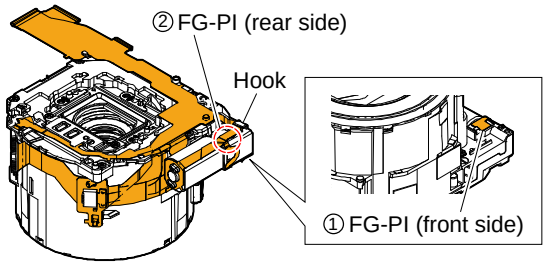
2. Remove the three screws to detach the Spacer Plates and the CD-1009 Flexible Board.



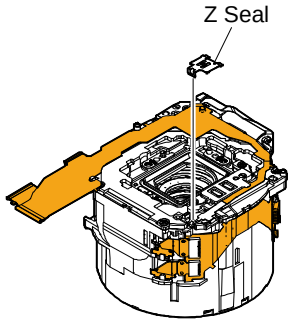
3. Remove the FG Retainer.



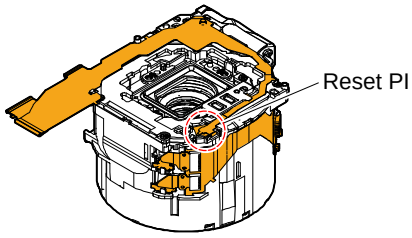
4. Pull out the FG-PI of front side, and then pull out the FG-PI of rear side.



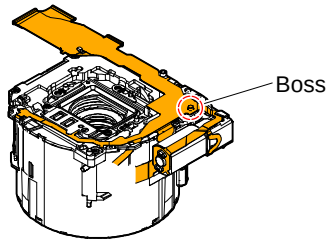
5. Remove the Z Seal.



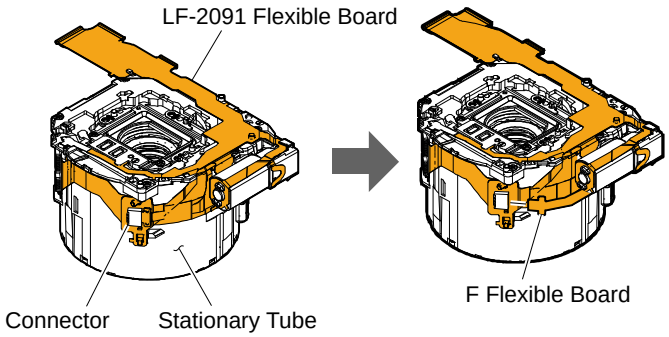
6. Pull out the Reset PI on the LF-2091 Flexible Board.



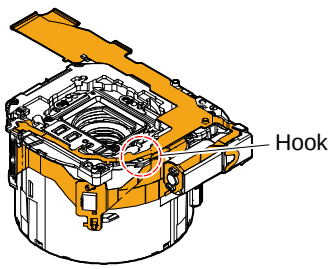
7. Remove LF-2091 Flexible Board from the boss of the Rear Tube Mirror Block Assy.



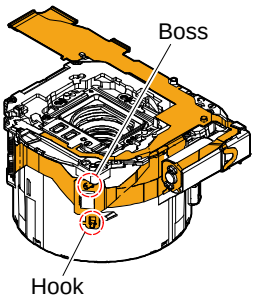
8. Disconnect the F Flexible Board from the connector of the LF-2091 Flexible Board.



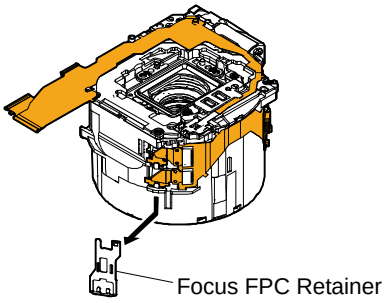
9. Remove the LF-2091 Flexible Board from the hook of the Rear Tube Mirror Block Assy.



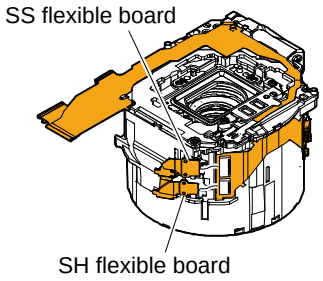
10. Remove the LF-2091 Flexible Board from the hook and the boss of the Stationary Tube.



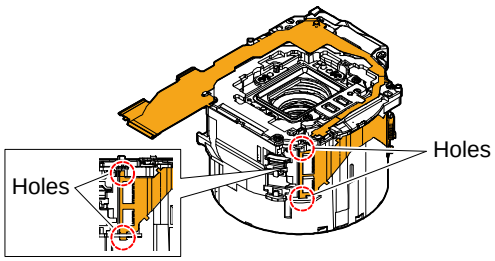
11. Remove the Focus FPC Retainer.



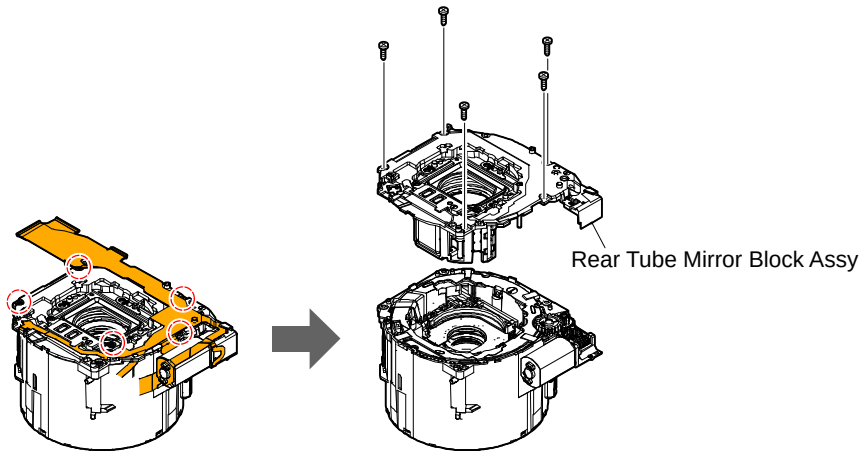
12. Disconnect the two flexible boards (SS and SH) from the connectors of the LF-2091 Flexible Board.



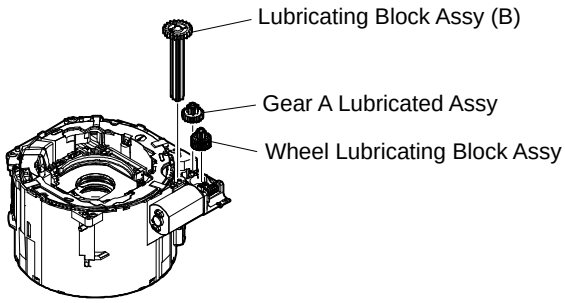
13. Remove the connector part of the LF-2091 Flexible Board from the holes of the Stationary Tube.



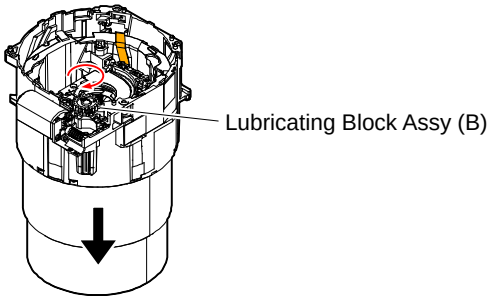
14. Remove the five screws to detach the Rear Tube Mirror Block Assy.



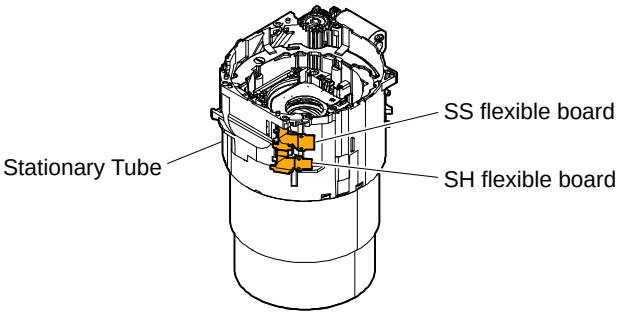
15. Remove the Lubricating Block Assy (B), the Gear A Lubricated Assy and the Wheel Lubricating Block Assy.



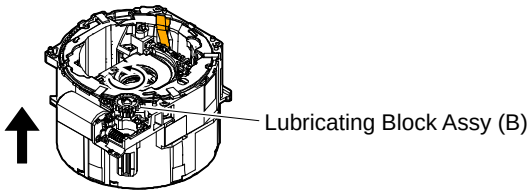
16. Insert a Lubricating Block Assy (B)* and turn it clockwise to the maximum extent.
*) Use a Lubricating Block Assy (B) that was not installed in the unit.



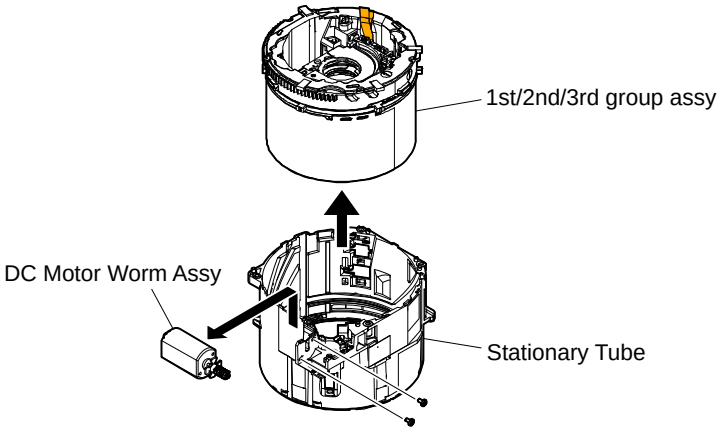
17. Pull out the two flexible boards (SS and SH) from the Stationary Tube.



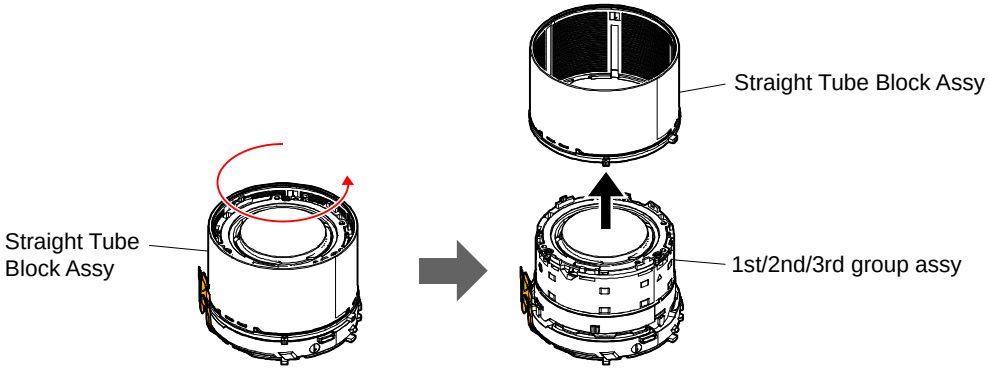
18. Turn the Lubricating Block Assy (B)* counterclockwise to the maximum extent, and detach the Lubricating Block Assy (B).
*) Use a Lubricating Block Assy (B) that was not installed in the unit.



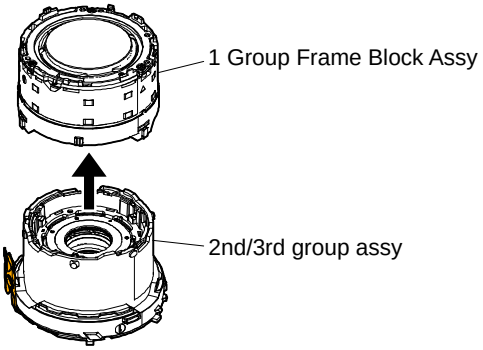
19. Remove the 1st/2nd/3rd group assy from the Stationary Tube. And remove the two screws to detach the DC Motor Worm Assy.



20. Turn the Straight Tube Block Assy counterclockwise and remove it from the 1st/2nd/3rd group assy.



21. Remove the 1 Group Frame Block Assy from the 2nd/3rd group assy.

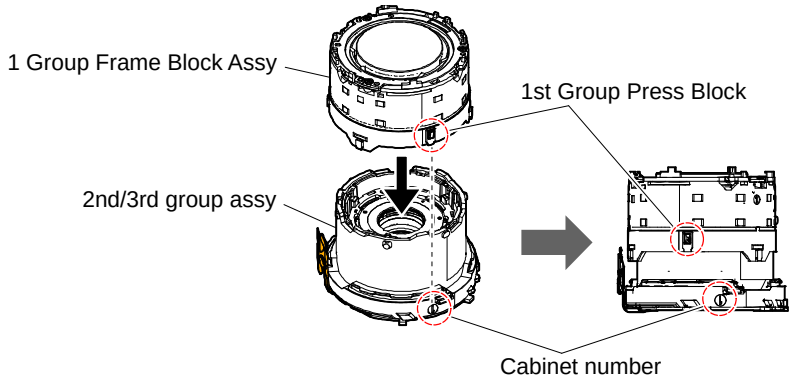


Installation

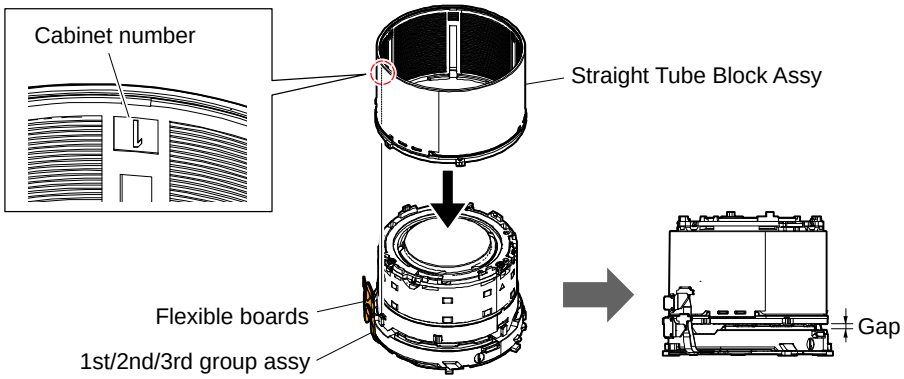
1. Match the 1st Group Press Block of the 1 Group Frame Block Assy with the cabinet number of the 2nd/3rd group assy and install the 1 Group Frame Block Assy while turning it clockwise.

Note

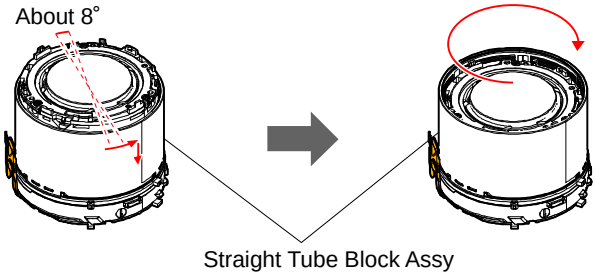
- If Ornamental Ring (A) and Barrier Block Assy is installed to 1 Group Frame Block Assy, remove them first.
- Be careful not to lose the 1st Group Press Block.
- When installing the 1 Group Frame Block Assy, stop turning it when the convex parts of the 1st Group Press Block and the 2nd/3rd group assy match.



2. Install the Straight Tube Block Assy matching its cabinet number with the flexible boards position of the 1st/2nd/ 3rd group assy.



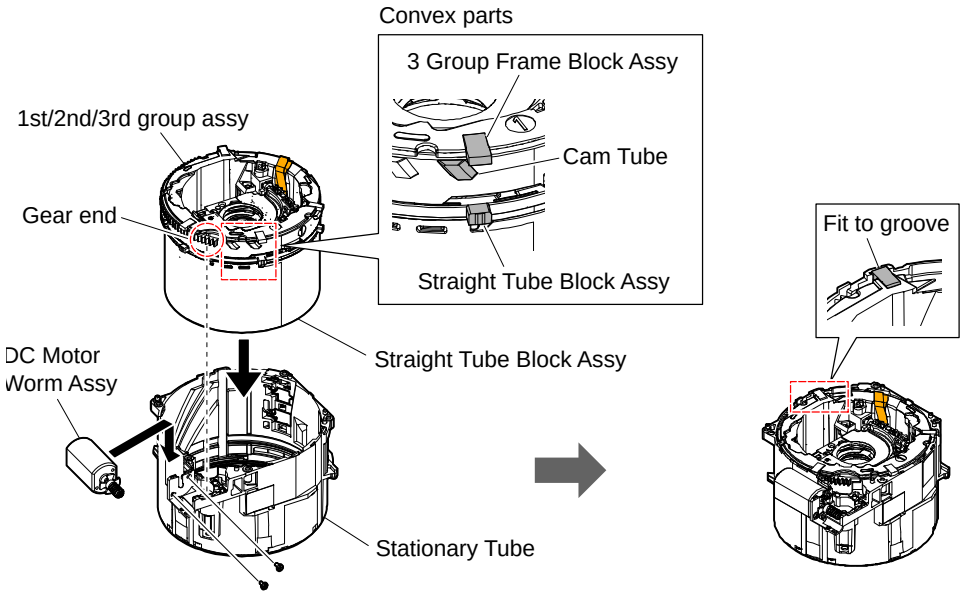
3. After turning the Straight Tube Block Assy counterclockwise about eight degrees to fully install it, turn the Straight Tube Block Assy clockwise to the maximum extent to fit the bayonet.



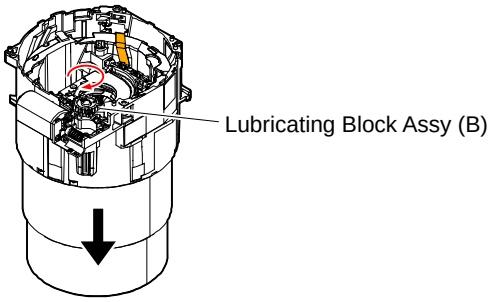
4. Attach the DC Motor Worm Assy and tighten two screws. And install the 1st/2nd/3rd group assy to the Stationary Tube matching the phase marks as shown in the figure.

Note

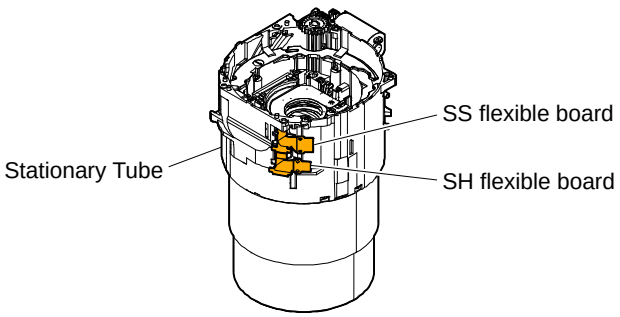
- When installing this assy, confirm that the convex parts of the 3 Group Frame Block Assy, Straight Tube Block Assy and the Cam Tube are shown below.
- Confirm that the straight key of the 3 Group Frame Block Assy is fit in the groove of the Stationary Tube. If the straight key is not fit in the groove, repeat these steps from step 1.



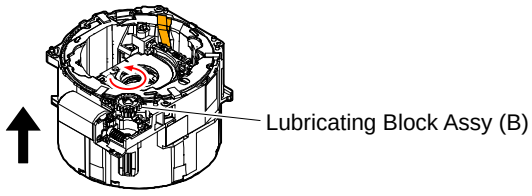
5. Install the Lubricating Block Assy (B)* and turn it clockwise to the maximum extent.
*) Use a Lubricating Block Assy (B) that was not installed in the unit.



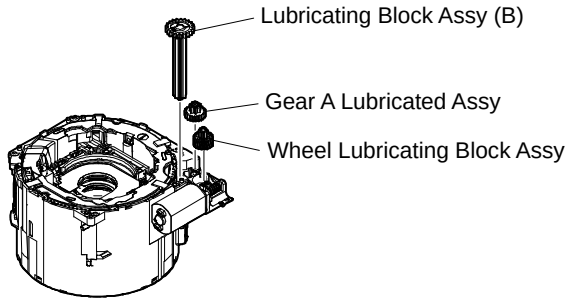
6. Pass the two flexible boards (SS and SH) through the holes in the Stationary Tube.



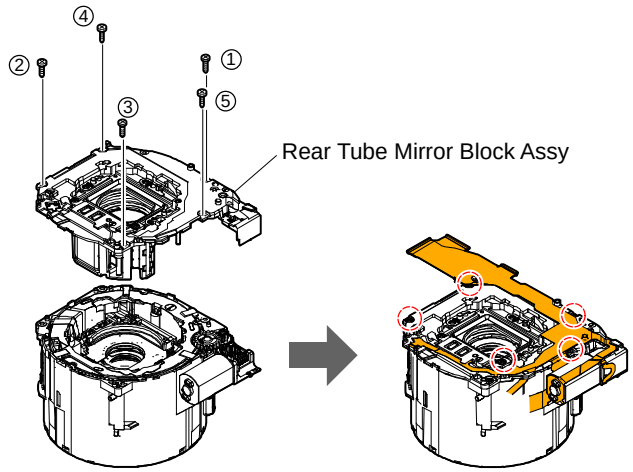
7. Turn the Lubricating Block Assy (B)* counterclockwise to the maximum extent.
   *) Use a Lubricating Block Assy (B) that was not installed in the unit.



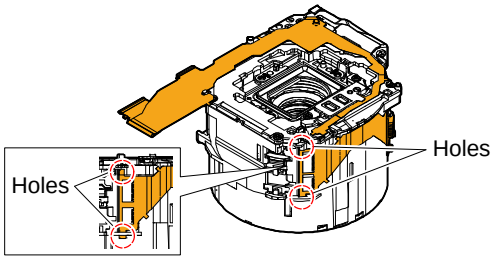
8. Install the Wheel Lubricating Block Assy, the Gear A Lubricated Assy and the Lubricating Block Assy (B).



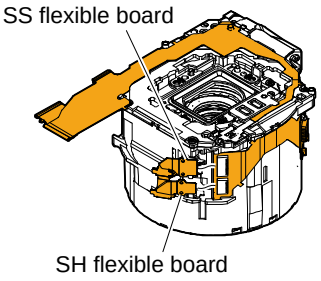
9. Attach the Rear Tube Mirror Block Assy and tighten five screws in numerical order in the following figure.



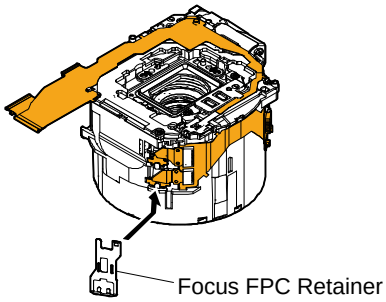
10. Install the connector part of the LF-2091 Flexible Board to the holes of the Stationary Tube.



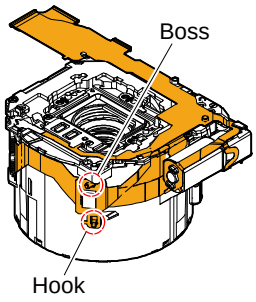
11. Connect the flexible boards (SS and SH) to the connectors of the LF-2091 Flexible Board.



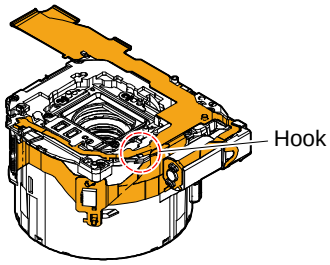
12. Install the Focus FPC Retainer.



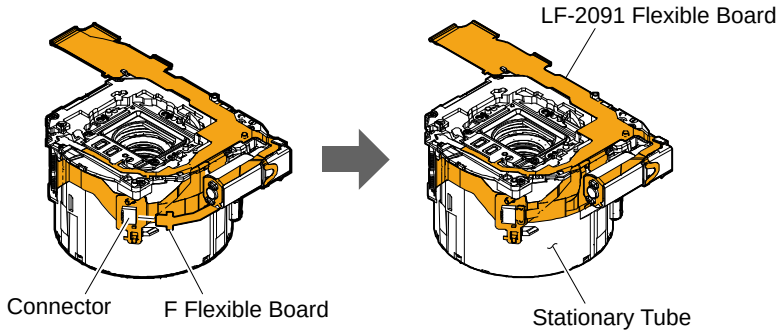
13. Install the LF-2091 Flexible Board to the hook and the boss of the Stationary Tube.



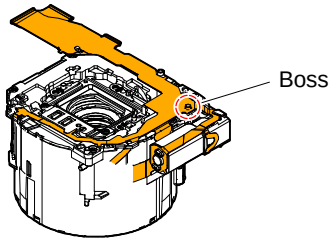
14. Install the LF-2091 Flexible Board to the hook of the Rear Tube Mirror Block Assy.



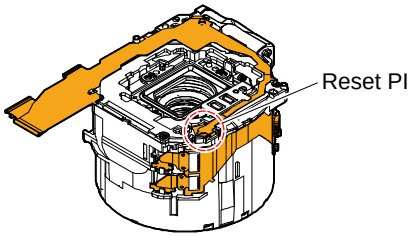
15. Connect the F Flexible Board to the connector of the LF-2091 Flexible Board.



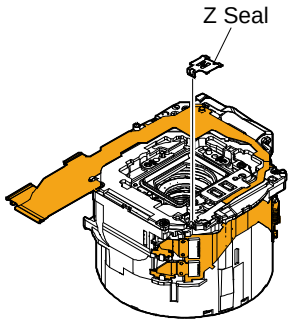
16. Install the LF-2091 Flexible Board to the boss of the Rear Tube Mirror Block Assy.



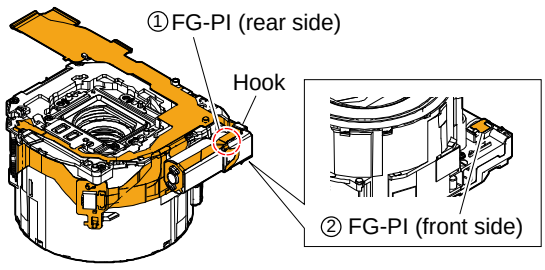
17. Install the Reset PI on the LF-2091 Flexible Board to the Rear Tube Mirror Block Assy.



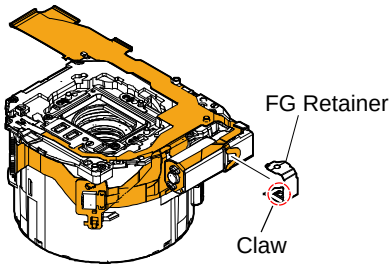
18. Install the Z Seal.



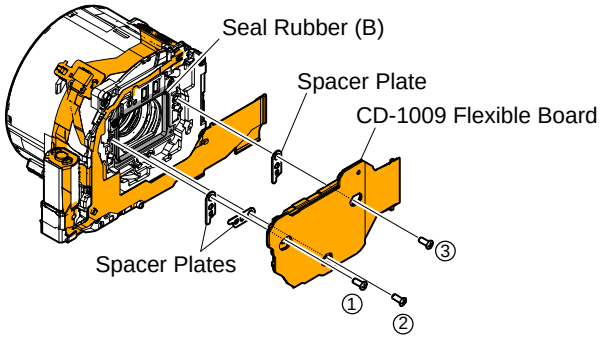
19. Install the FG-PI of rear side, and then install the FG-PI of front side.



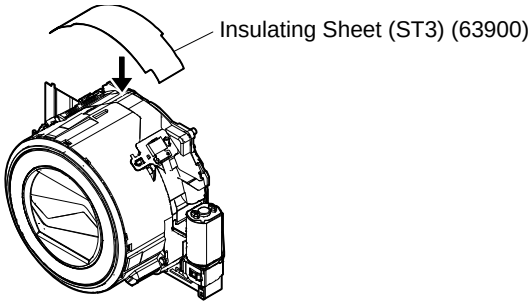
20. Install the FG Retainer.



21. Put on the Spacer Plates, and install the CD-1009 Flexible Board and tighten three screws in numerical order in the following figure.



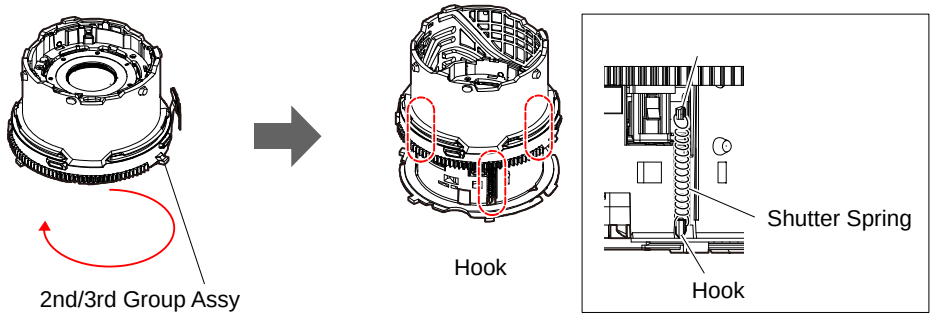
22. Stick a new Insulating Sheet (ST3) (63900).



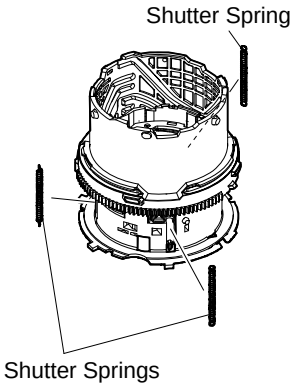
4-3-3. Tube Lubricating Block Assy

Removal

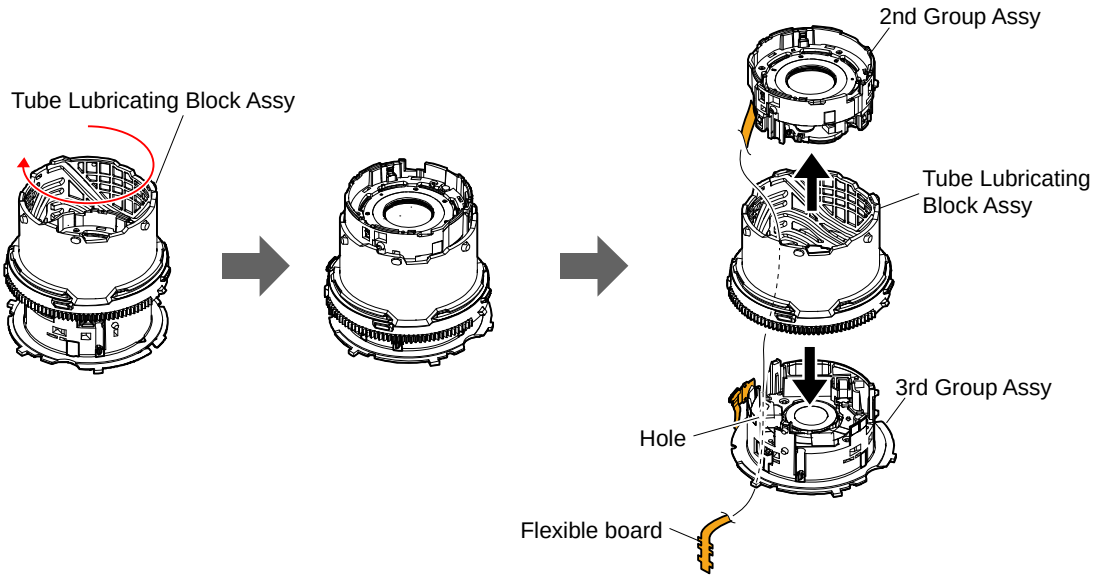
1. Remove the 1 Group BlockAassy. (Refer to “4-3-2. Group Frame Block Assy Replacing Method”)
2. Turn the 2nd/3rd Group Frame Assy clockwise, then expose the Shutter spring.



3. Remove the three Shutter Springs.

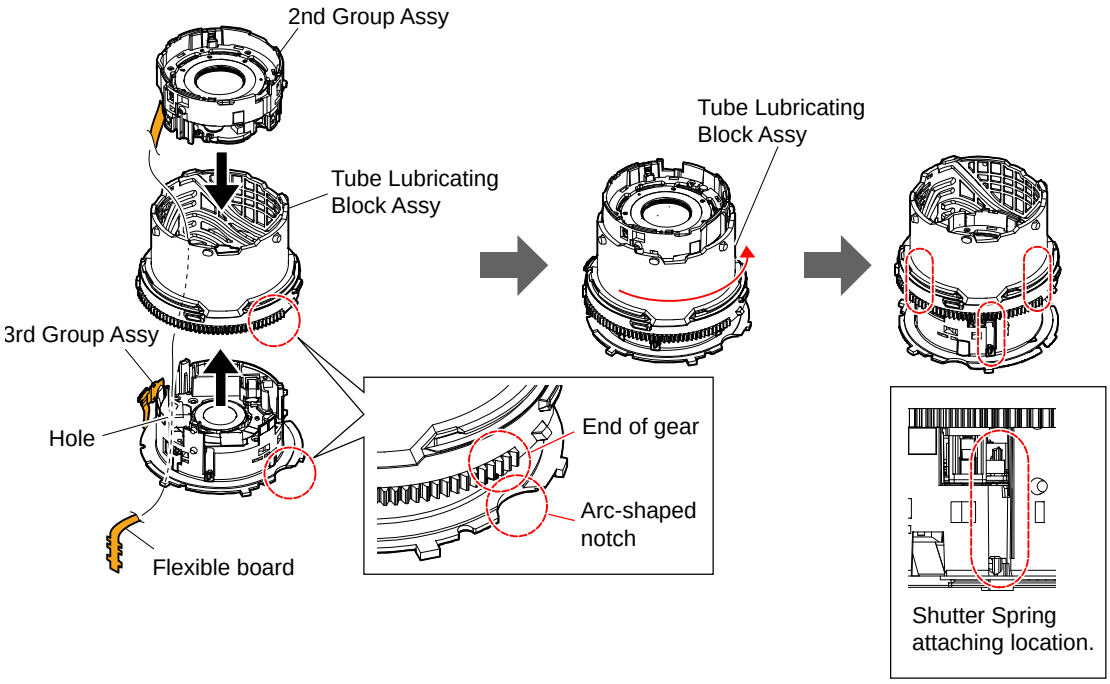


4. Turn the Tube Lubricating Block Assy clockwise to the maximum extent.
5. Remove the 2nd Group Assy and the 3rd Group Assy from the Tube Lubricating Block Assy in the direction of the arrows.
6. Pull out the flexible board of the 2nd Group Assy from the hole of the 3rd Group Assy.

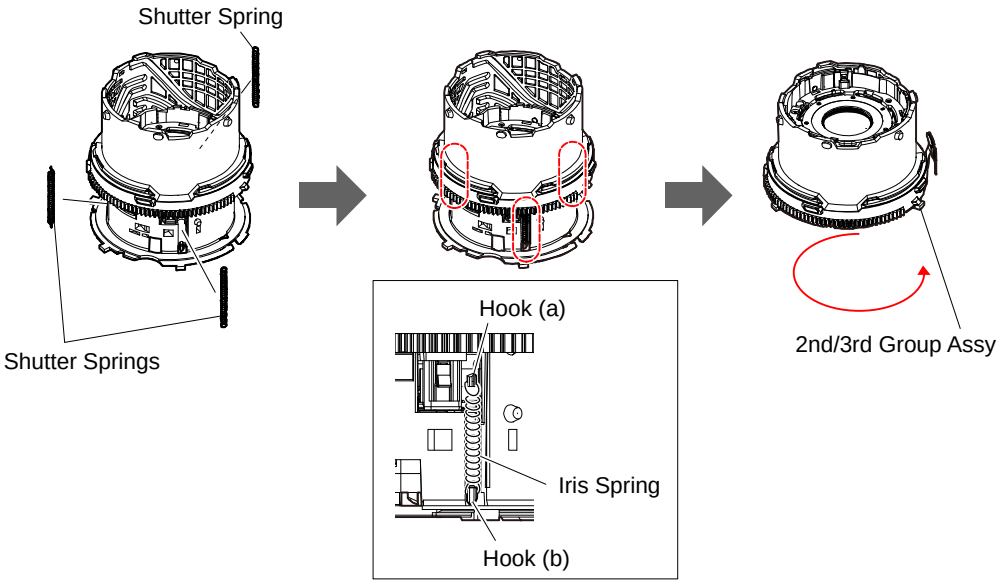


Installation

1. Pass the flexible board of the 2nd Group Assy through the hole of the 3rd Group Assy.
2. Align the arc-shaped notch with the end of gear, and then attach the 3rd Group Assy.
3. Attach the 2nd Group Assy, and then turn the tube Lubricating Block Assy counterclockwise to expose the three Shutter Springs attaching location.



4. Attach the three Shutter Springs to the hooks. (Attach the Iris Spring in the order of hook (a) and hook (b) as shown in the figure.)
5. Turn the Tube Lubricating Block Assy counterclockwise to the maximum extent.

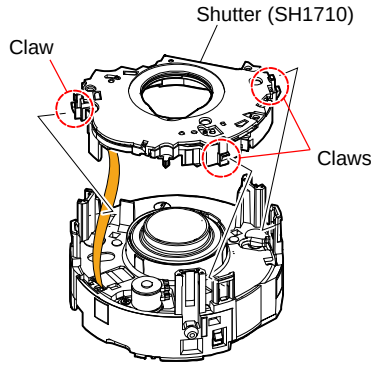


6. Assemble the lens unit. (Refer to “4-3-2. Group Frame Block Assy Replacing Method”)

4-3-4. Shutter (SH1710), Iris (IR1710)

Removal

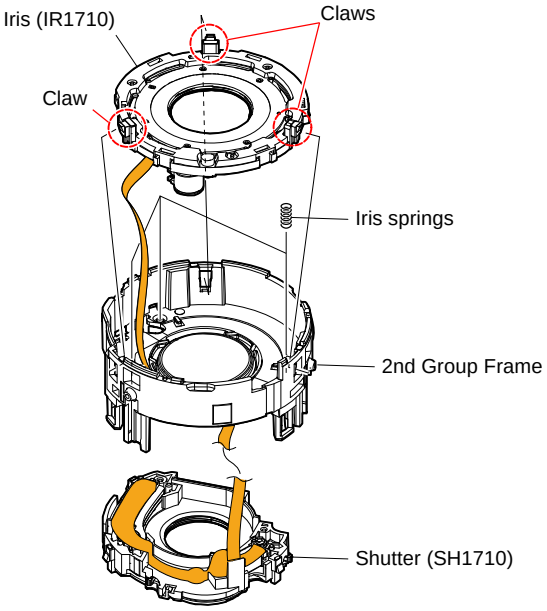
1. Remove the 1 Group BlockAassy and the 2nd Group Assy. (Refer to “4-3-2. Group Frame Block Assy Replacing Method”, “4-3-3. Tube Lubricating Block Assy”)
2. Disengage the three claws, then remove the Shutter (SH1710).



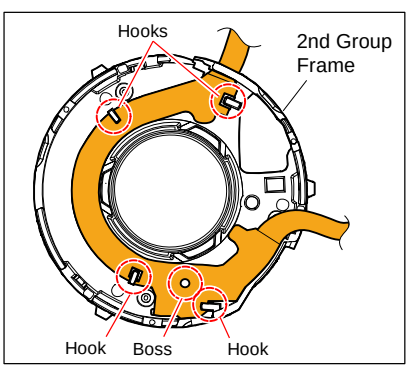
3. Disengage the three claws, then remove the Iris (IR1710) and three Iris springs.

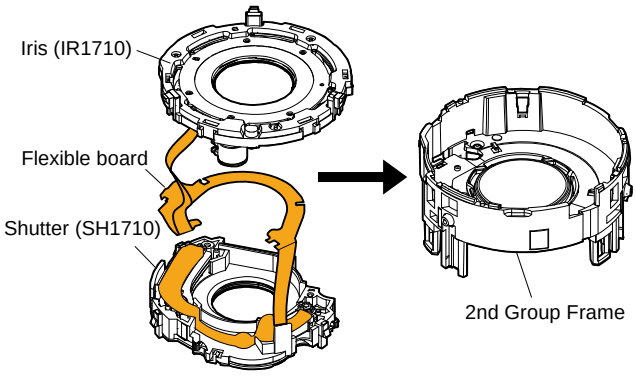
Note

Carefully remove the Iris (IR1710) so as not to lose the Iris springs.



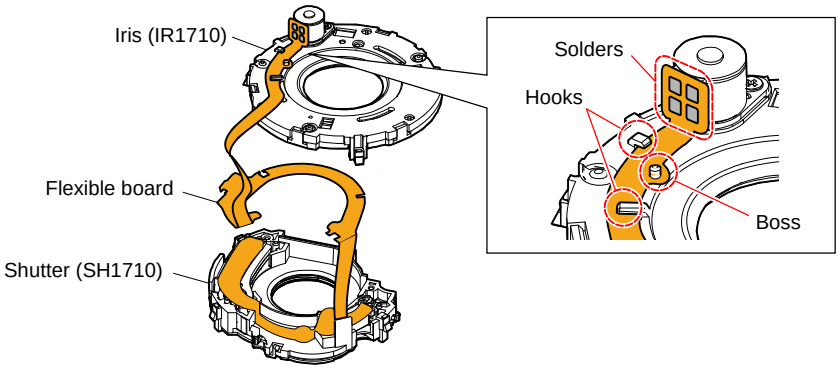
4. Release the four hooks and boss, then remove the flexible board of the Shutter (SH1710).



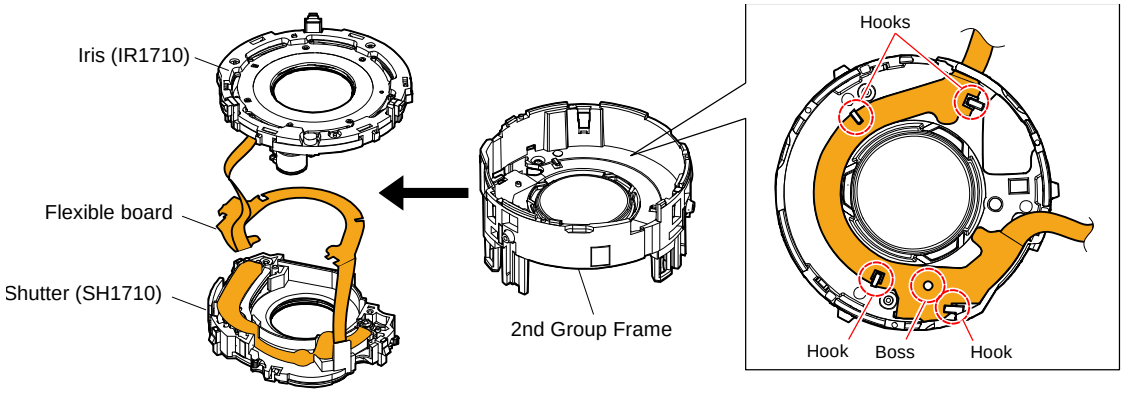


Installation

1. Solder the four soldering places.
2. Fix the flexible board to the two hooks and boss.



3. Fix the flexible board to the four hooks and boss.

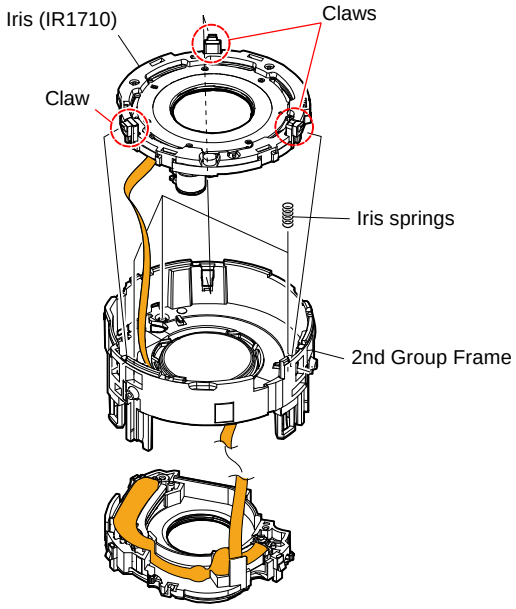


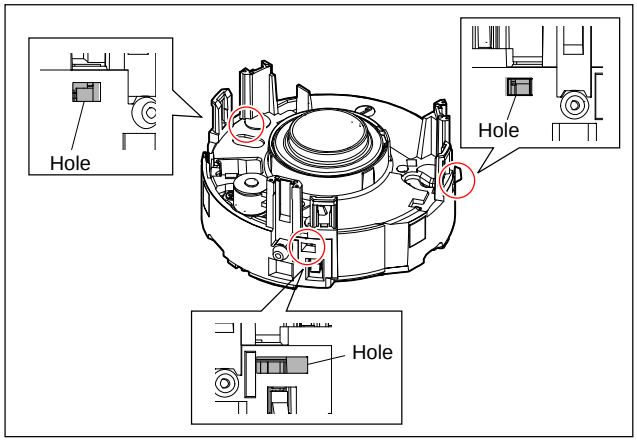
4. Set the three Iris springs.

Note

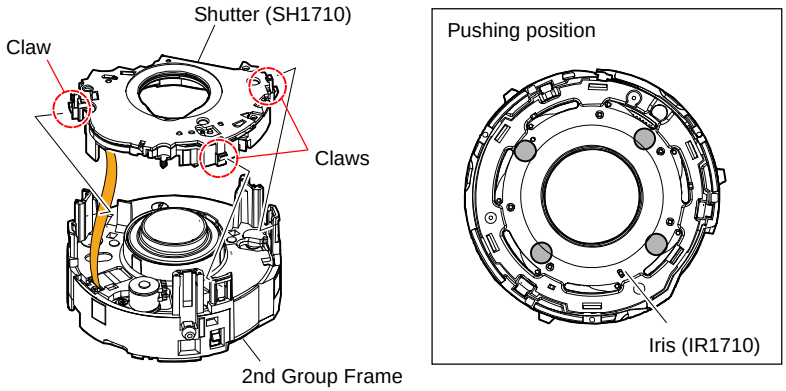
Be careful not to fall down the Iris Springs.

5. Attach the Iris (IR1710) to 2nd Group Frame, then fix the three claws.
6. Visually inspect the iris spring from the holes, confirm that the stick has not fall over.





7. Attach the Shutter (SH1710) to 2nd Group Frame, then fix the three claws.
8. Push the Iris (IR1710) and conferm if the spring is working properly.



9. Assemble the lens unit. (Refer to “4-3-2. Group Frame Block Assy Replacing Method”, “4-3-3. Tube Lubricating Block Assy”)

Section 5
Repair Parts List

5-1. Note on Repair Parts

(ENGLISH)

NOTE:

- -XX, -X mean standardized parts, so they may have some differences 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.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- ns: Not supplied part.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA... : µA... , uPA... : µPA... , uPB... : µPB... ,
  uPC... : µPC... , uPD... : µPD...

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.

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.

注意
如果电池更换不当会有爆炸危险。
只能用同样类型或等效类型的电池来更换。
务必按照说明处置用完的电池。

- Color Indication of Appearance Parts
  Example:
  (SILVER) : Cabinet's Color
  (Silver) : Parts Color

(JAPANESE)

【 使用上の注意】

- -XX, -Xは標準化部品のため, セット に付いている部品と 異なる場合があります。
- *印の部品は常備在庫し ておりません。
- ここに記載さ れている部品は, 補修用部品であるため, 回路図及びセット に付いている部品と 異なる場合があります。
- ns: 供給対象外部品。
- コンデンサの単位でuFはµFを 示し ます。
- 抵抗の単位Ωは省略し てあります。
  金　　被: 金属被膜抵抗。
  サンキン: 酸化金属被膜抵抗。
- インダクタ の単位でuHはµHを 示し ます。
- 半導体の名称でuA..., uPA..., uPB..., uPC..., uPD... 等は
  それぞれµA..., µPA..., µPB..., µPC..., µPD...を 示し ます。

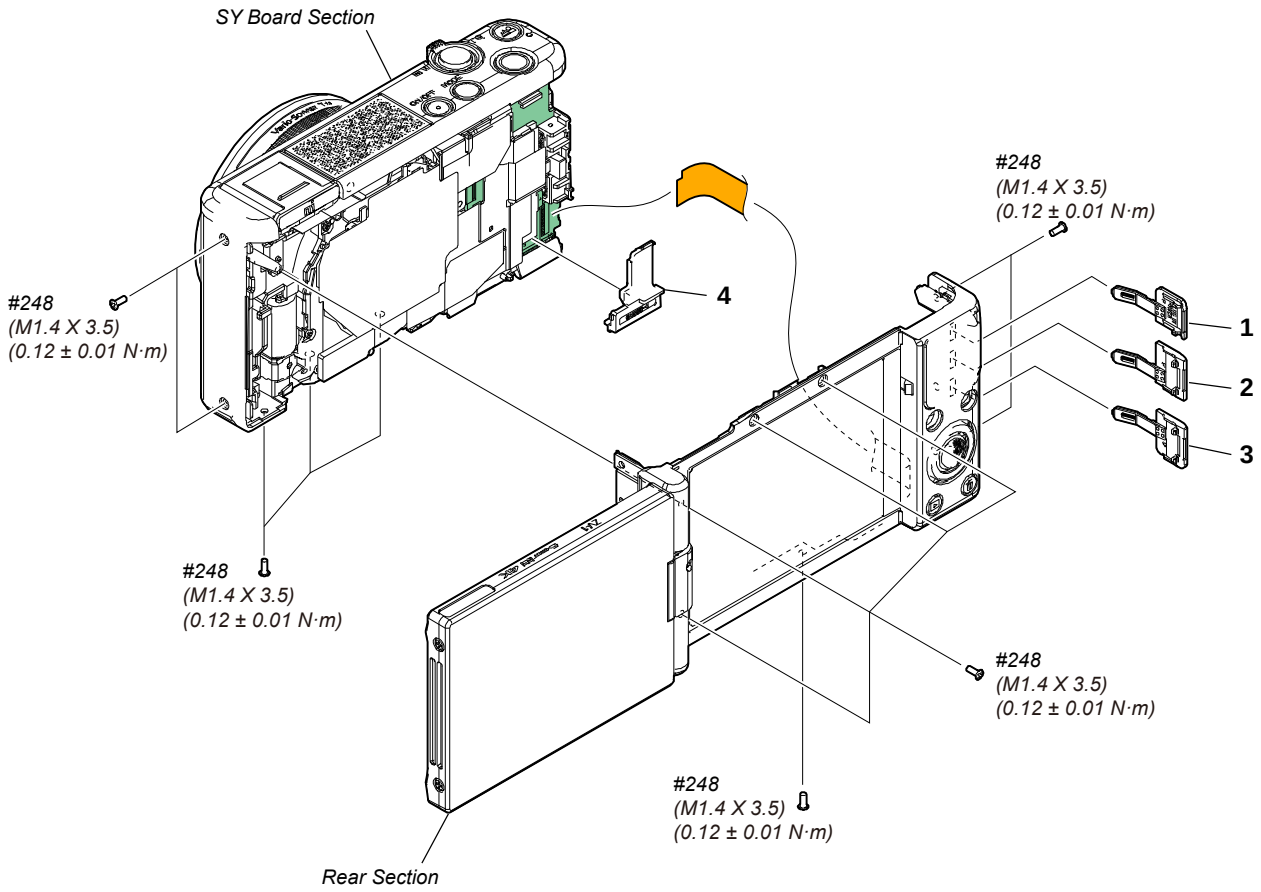
⚠印の部品，または ⚠印付の点線で囲まれた部品は，
安全性を 維持するために，重要な部品です。
従って交換時は，必ず指定の部品を 使用し てく ださい。

注意
電池の交換は、正しく 行わないと 破裂する 恐れがあり ます。電池を 交換する 場合には必ず同じ 型名の電池又は同等品と 交換し てく ださい。
使用済み電池は、取扱指示に従って 処分し てく ださい。

・ 外装部品色表示
例:
(SILVER): セット の色を 表す。
(Silver): 部品の色を 表す。

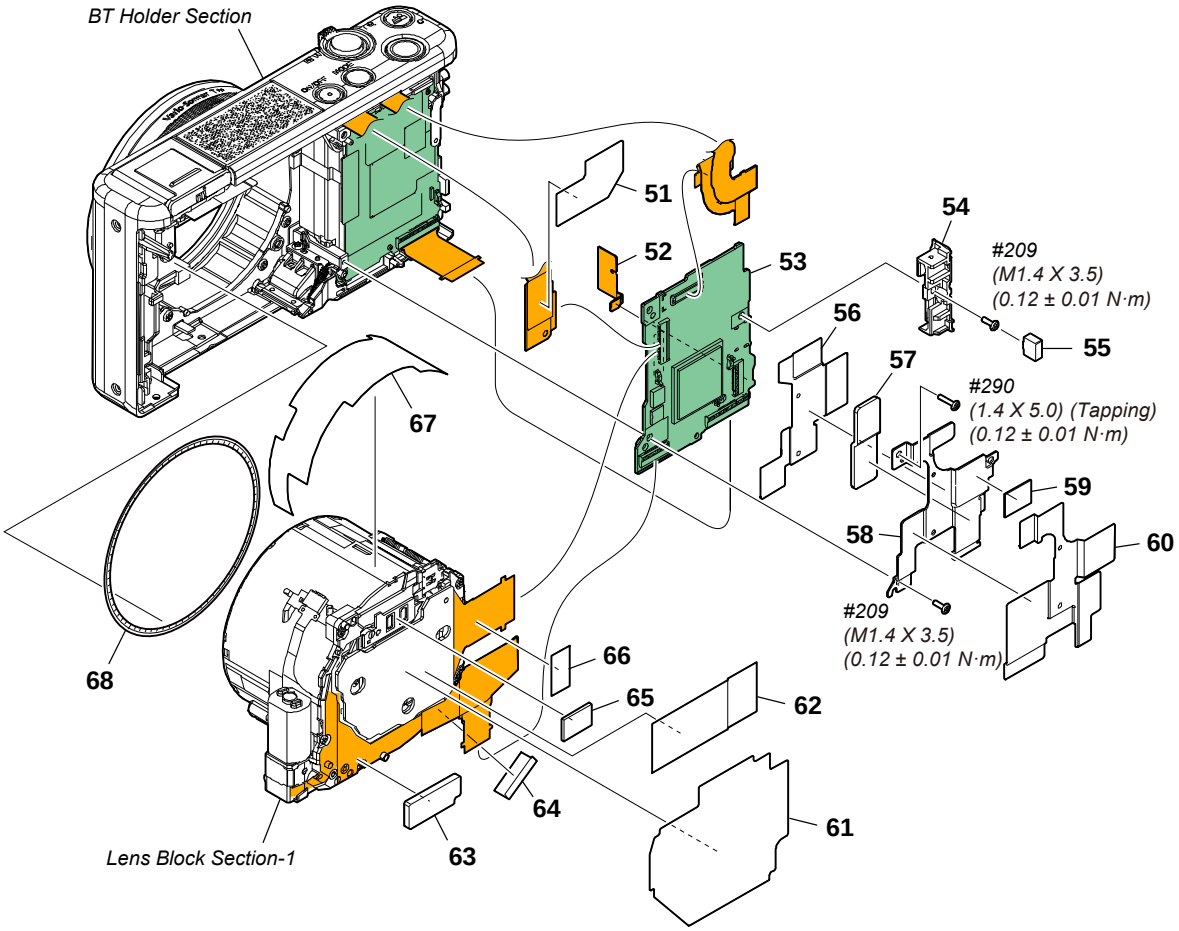
5-2. Exploded Views

Overall Section



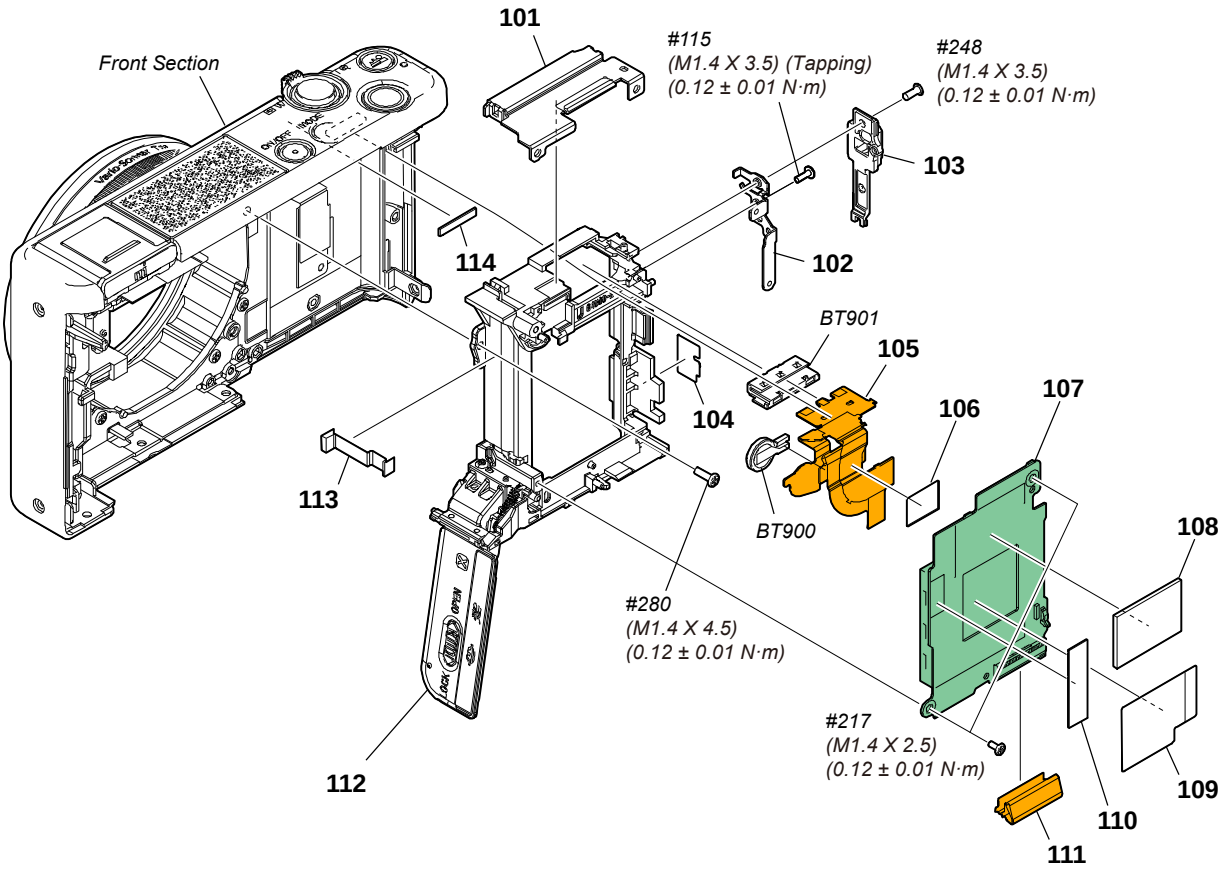
No.	Part No.	SP	Description
1	501354301		MIC LID(64500)
2	501354101		USB LID(64500)
3	501354201		HDMI LID(64500)
4	501353101		FPC HOLDER(64500)
#248	441276901		SCREW(M1.4), NEW TRUSTAR, P2

SY Board Section



No.	Part No.	SP	Description
51	500806401		BT HNS GUARD(88300)
52	198360711		FPC-2022 FLEXIBLE BOARD
53	A5020708A		SY-1112 BOARD, COMPLETE (SERVICE)
54	500055901		HOLDER (64210), JACK
55	500405601		CUSHION, (64210)(GND)
56	501354901		SY INSULATION SHEET B (64500)
57	501354701		SY HEAT TRANSFER SHEET(64500)
58	501353001		SY HEAT SINK(64500)
59	500056901		SHEET (64210), SY SHIELD
60	501354801		SY INSULATION SHEET A (64500)
61	473231801		SHEET (64200), INTERCEPTION
62	501767601		IMG RADIATION SHEET(64500)
63	501355301		CUSHION (UNDER) (64500), LENS
64	500311201		INSULATING SHEET,BT (64210)
65	459411101		CUSHION (UPPER) (63900), LENS
66	500086911		SHEET EM SHIELD LC FPC (62600)
67	459579601		INSULATING SHEET (ST3) (63900)
68	453227403		LIGHT SHIELD RING
#209	426475101		SCREW(M1.4),NEW TRUSTAR
#290	430010611		BTITE (1.4 (CH))

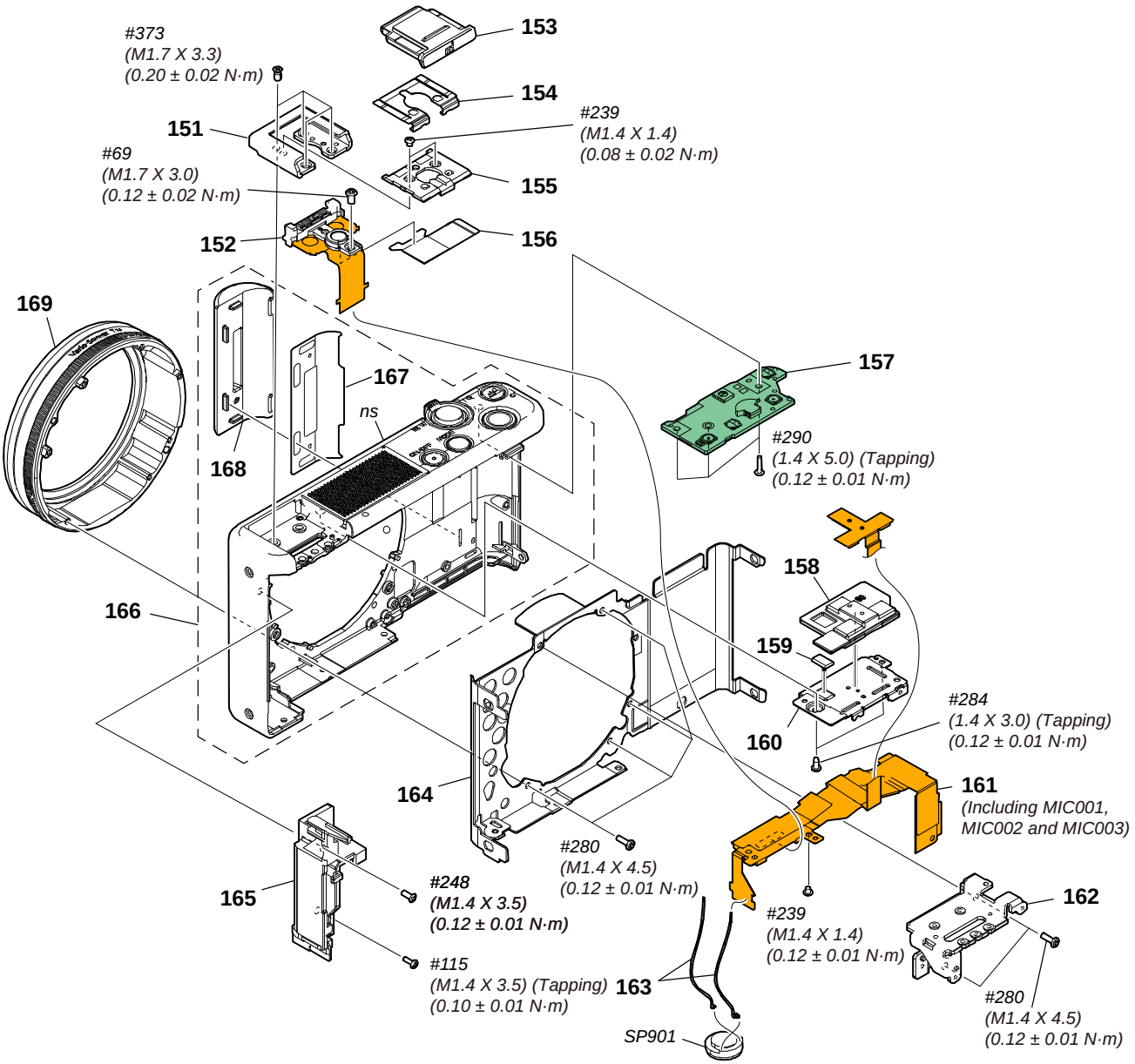
BTH Holder Section



No.	Part No.	SP	Description
101	473008202		HEAT SINK (64200), BT
102	501357101		STRAP BASE PLATE(64500)
103	501353201		STRAP R(64500)
104	500330601		SHEET (WIFI), ADHESIVE 64210
105	A5001215A		BT-2030 FLEXIBLE BOARD, COMPLETE
106	500311201		INSULATING SHEET,BT (64210)
107	A5016153A		MS1041 BOARD, COMPLETE
108	473020201		SHEET (U) (64200), HEAT
109	500405401		INSULATING SHEET (A), MS
110	501354601		SY SPACER(64500)
111	198241411		FP-2423 FLEXIBLE BOARD
112	X50012341		BT HOLDER ASSY (64500)
113	501542601		MS RADIATION SHEET (64500)
114	473008401		SHEET (F) (64200), HEAT

No.		Part No.	SP	Description
BT900	⚠	175681312		LITHIUM RECHARGEABLE BATTERY
BT901	⚠	178082611		TERMINAL BOARD, BATTERY
#115		334899851		SCREW (M1.4X3.5), TAPPING, PAN
#217		426475111		SCREW(M1.4),NEW TRUSTAR
#248		441276901		SCREW(M1.4), NEW TRUSTAR, P2
#280		443753811		SPECIAL (M1.4 (D2.75))

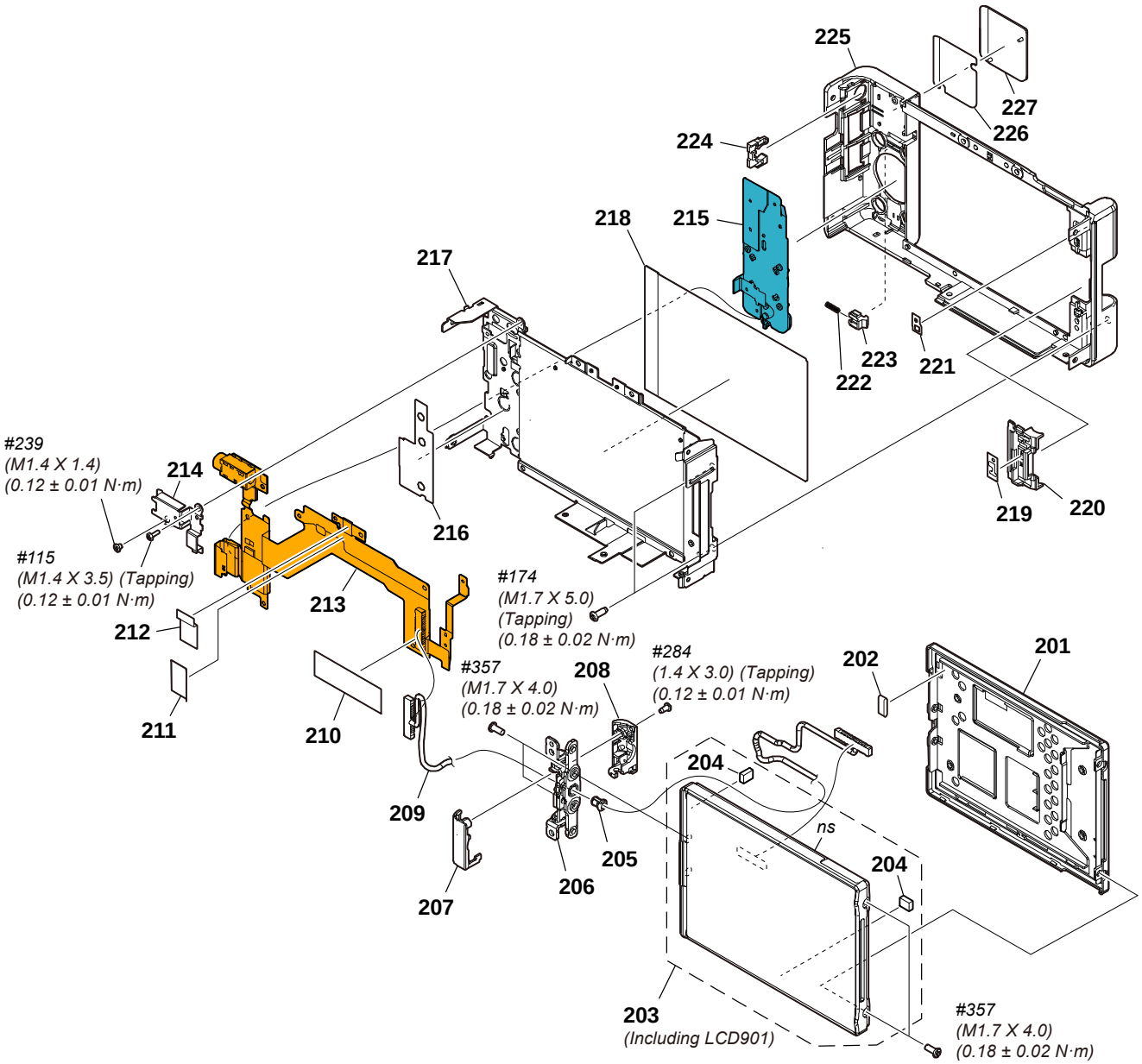
Front Section



No.	Part No.	SP	Description
151	500294302		MI SHOE SHELL PLATE(88100)
152	A5001908A		MIS-2006 FLEXIBLE BOARD, COMPLETE
153	443873412		SHOE CAP (875)
154	500294502		MI SHOE SPRING PLATE(88100)
155	500294602		MI SHOE SCREW COVER(88100)
156	501353901		SHOE FPC GUARD (64500)
157	A5016150A		RL-1065 BOARD, COMPLETE
158	501355801		MIC RUBBER(64500)
159	500398101		GASKET (R) (64210)
160	A5020567A		SERVICE MIC FRAME SPACER ASSY
161	A5016149A		RL-1066 FLEXIBLE BOARD, COMPLETE
162	501356101		SHOE FRAME(64500)
163	184855021		CABLE
164	501355501		FRONT FLAME C(64500)
165	501356001		SIDE SPACER(64500)

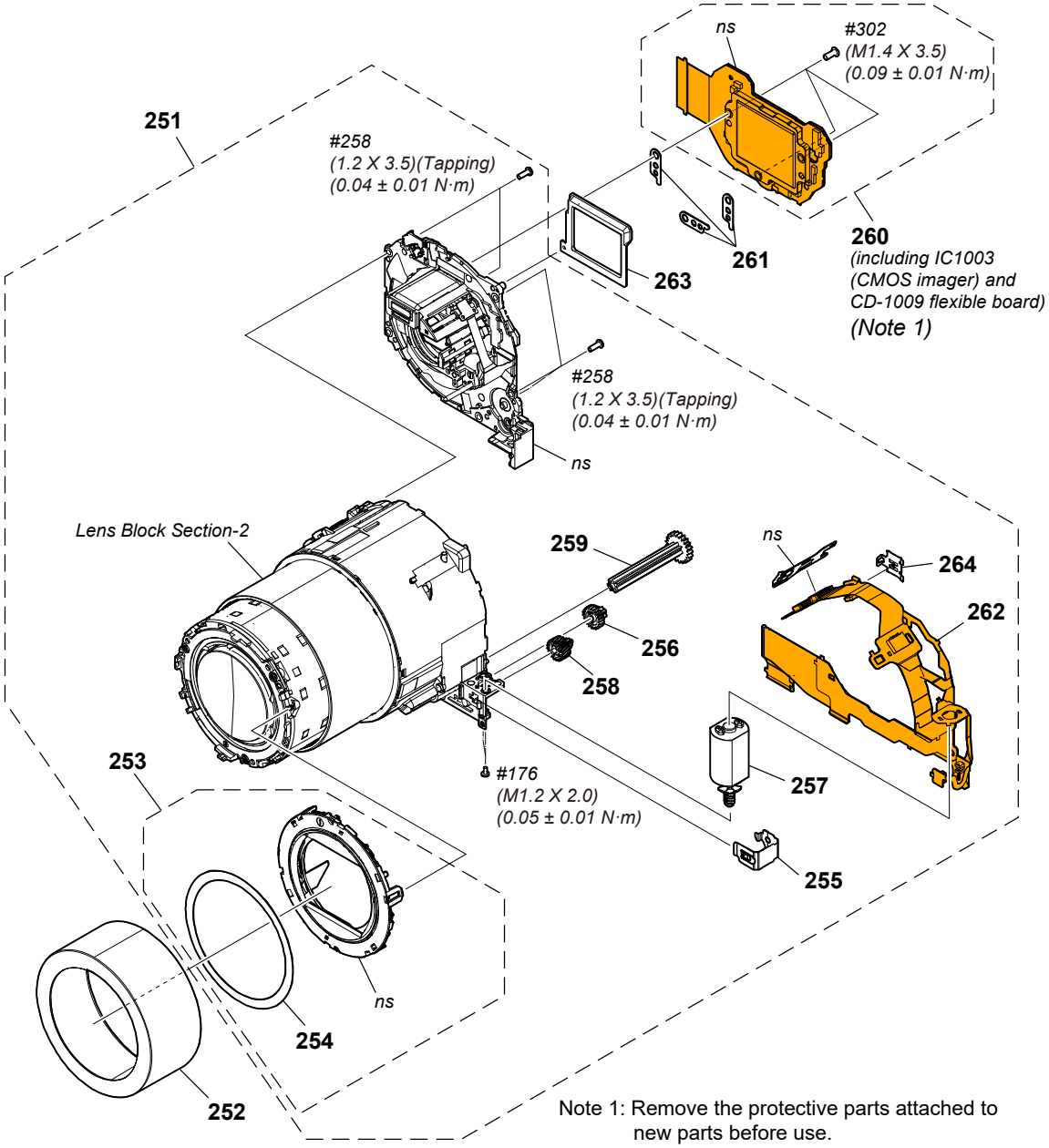
No.	Part No.	SP	Description
166	A5020565A		SERVICE CAB FRONT ASSY (64500)
167	501356401		GRIP FRONT ADHESIVE (64500)
168	501356301		GRIP FRONT (64500)
169	501355401		LENS RING(64500)
SP901	185921011		LOUDSPEAKER (1.0CM)
#69	259947521		SCREW(M1.7)
#115	334899851		SCREW (M1.4X3.5), TAPPING, PAN
#239	428743511		SCREW (M1.4 EUROPE) TYPE
#248	441276901		SCREW(M1.4), NEW TRUSTAR, P2
#280	443753811		SPECIAL (M1.4 (D2.75))
#284	443388221		TAPPING (1.4) (ECOLOGY)
#290	430010611		BTITE (1.4 (CH))
#373	500294701		SCREW(M1.7)SPECIAL HEAD

Rear Section



No.	Part No.	SP	Description
201	A5020562A		SERVICE PANEL CAB REAR ASSY
202	469210701		GASKET (CN (799))
203	A5020563A		SERVICE PANEL CAB FRONT ASSY
204	147173811		MAGNET, SENSOR
205	501161101		SV WP CABLE GROMMET
206	X50010461		SV HINGE ASSY
207	A5020564A		SERVICE HINGE COVER MG ASSY
208	501160401		SV HINGE COVER REAR
209	100597611		FINE COXIAL CABLE
210	327451311		TAPE (ASCD)
211	500311201		INSULATING SHEET,BT (64210)
212	501482901		SHIELD SHEET REC (64500)
213	A5016151A		RE-1006 FLEXIBLE BOARD, COMPLETE
214	501354001		MIC JACK PLATE(64500)
215	149043541		SWITCH BLOCK, CONTROL(SW63900)
216	501355001		MAIN FRAME INSULATION
217	501353701		MAIN FRAME(64500)
218	501353801		FRAME SHEET(64500)
219	501483001		MG SENSOR ADHESIVE B(64500)
220	501353401		CABINET REAR COVER(64500)
221	501355201		MG SENSOR ADHESIVE A(64500)
222	501354501		LC LOCK SPRING(64500)
223	501354401		LC LOCK(64500)
224	500056101		HOLDER (64210), MIC
225	A5020566A		SERVICE CAB REAR ASSY(64500)
226	501353601		GRIP REAR ADHESIVE (64500)
227	501353501		GRIP REAR (64500)
#115	334899851		SCREW (M1.4X3.5), TAPPING, PAN
#174	371379135		SCREW (M1.7X5), TAPPING, P2
#239	428743511		SCREW (M1.4 EUROPE) TYPE
#284	443388221		TAPPING (1.4) (ECOLOGY)
#357	444694911		SCREW(M1.7)

Lens Block Section-1



Note 1: Remove the protective parts attached to new parts before use.

No.	Part No.	SP	Description
251	A5012793A		SERVICE, LENS DEVICE LSV1710F
252	A5012268A		RING (A) (SERVICE), ORNAMENTAL
253	A2032894A		BARRIER BLOCK ASSY
254	453100501		TAPE, BARRIER
255	429434701		RETAINER, FG
256	A1940536A		GEAR A LUBRICATED ASSY
257	A2049433A		DC MOTOR WORM ASSY
258	A2032915A		LUBRICATING BLOCK ASSY, WHEEL
259	A2032916A		LUBRICATING BLOCK ASSY, (B)
260	A5012267A		INDIVIDUAL (1710F),BLOCK ASSY
261	Selection Parts		SPACER PLATE
262	A2009287A		LF-2091 FLEXIBLE BOARD
263	459487301		RUBBER (B), SEAL
264	420815201		SEAL, Z
#176	394750431		SCREW (M1.2)
#258	429946811		SCREW, TAPPING UB1.2(CH)
#302	370381618		SCREW (M1.4X3.5), SPECIAL HEAD

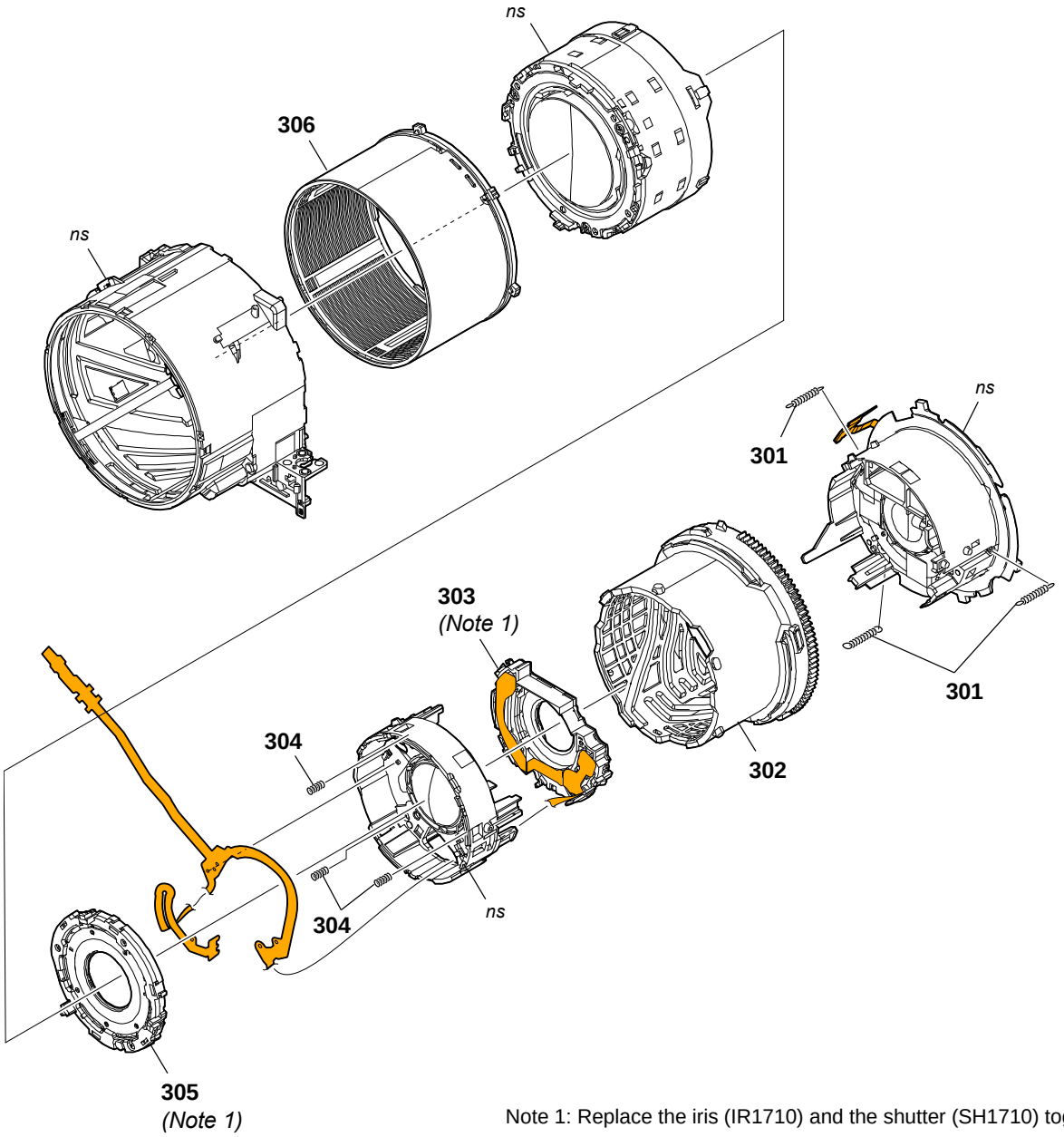
Selection Parts

Ref. No.261

These parts are provided for shift and tilt adjustment.
Change the thickness (t) according to result of adjustment.

No.	Part No.	SP	Description
	441053901		SPACER PLATE (A) (t=0.10)
	441053911		SPACER PLATE (A) (t=0.11)
	441053921		SPACER PLATE (A) (t=0.12)
	441053931		SPACER PLATE (A) (t=0.13)
	441053941		SPACER PLATE (A) (t=0.14)
	441053951		SPACER PLATE (A) (t=0.15)
	441053961		SPACER PLATE (A) (t=0.16)
	441053971		SPACER PLATE (A) (t=0.17)
	441053981		SPACER PLATE (A) (t=0.18)
	441053991		SPACER PLATE (A) (t=0.19)
	441054001		SPACER PLATE (B) (t=0.20)
	441054011		SPACER PLATE (B) (t=0.21)
	441054021		SPACER PLATE (B) (t=0.22)
	441054031		SPACER PLATE (B) (t=0.23)
	441054041		SPACER PLATE (B) (t=0.24)
	441054051		SPACER PLATE (B) (t=0.25)
	441054061		SPACER PLATE (B) (t=0.26)
	441054071		SPACER PLATE (B) (t=0.27)
	441054081		SPACER PLATE (B) (t=0.28)
	441054091		SPACER PLATE (B) (t=0.29)
	443738801		SPACER PLATE C (t=0.30)
	443738811		SPACER PLATE C (t=0.31)
	443738821		SPACER PLATE C (t=0.32)
	443738831		SPACER PLATE C (t=0.33)
	443738841		SPACER PLATE C (t=0.34)
	443738851		SPACER PLATE C (t=0.35)
	443738861		SPACER PLATE C (t=0.36)
	443738871		SPACER PLATE C (t=0.37)
	443738881		SPACER PLATE C (t=0.38)
	443738891		SPACER PLATE C (t=0.39)
	447251101		SPACER PLATE D (t=0.40)
	447251111		SPACER PLATE D (t=0.41)
	447251121		SPACER PLATE D (t=0.42)
	447251131		SPACER PLATE D (t=0.43)
	447251141		SPACER PLATE D (t=0.44)
	447251151		SPACER PLATE D (t=0.45)
	447251161		SPACER PLATE D (t=0.46)
	447251171		SPACER PLATE D (t=0.47)
	447251181		SPACER PLATE D (t=0.48)
	447251191		SPACER PLATE D (t=0.49)
	447251201		SPACER PLATE E (t=0.50)

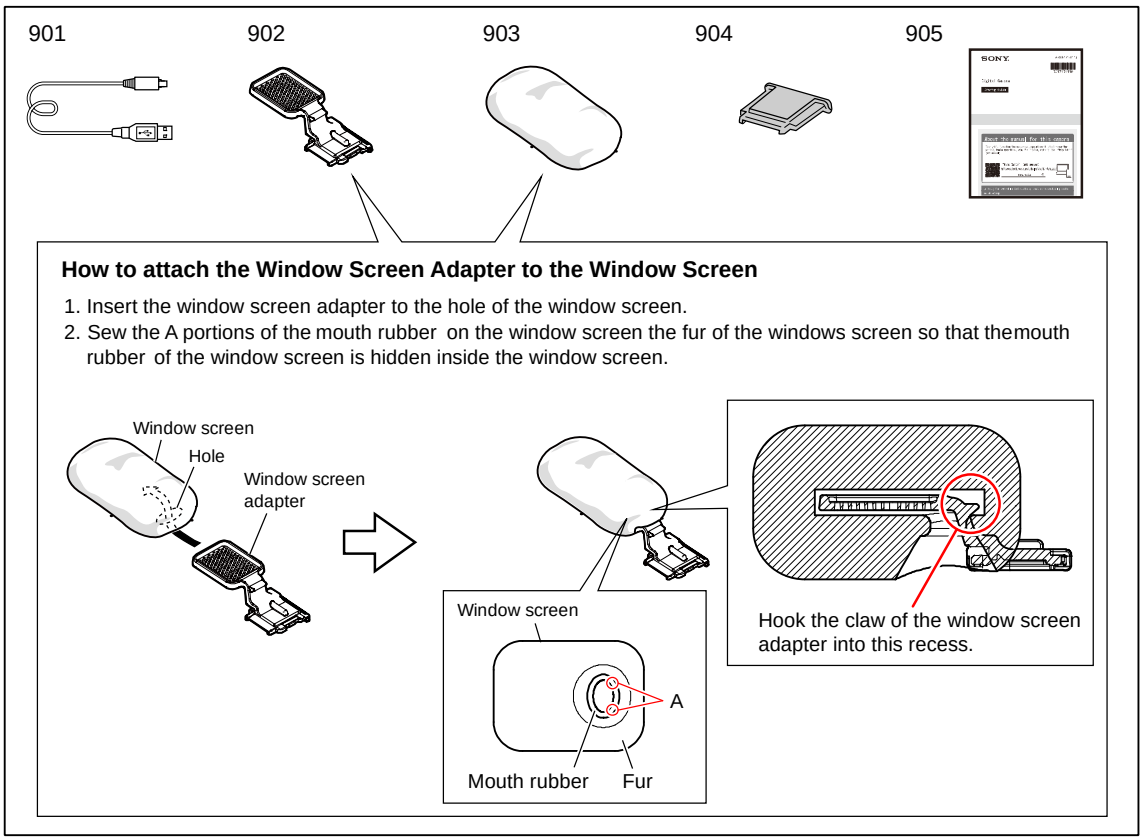
Lens Block Section-2



Note 1: Replace the iris (IR1710) and the shutter (SH1710) together.

No.	Part No.	SP	Description
301	453067601		SPRING, SHUTTER
302	A2032906A		LUBRICATING BLOCK ASSY, TUBE
303	149281713		SHUTTER (SH1710)
304	441048801		IRIS SPRING
305	185661311		IRIS (IR1710)
306	A5012264A		TUBE BLOCK ASSY, STRAIGHT

5-3. Accessories



No.		Part No.	SP	Description
901	⚠	184661512		Micro USB cable
902		501721601		Wind screen adaptor
903		501721701		Wind screen
904		443873412		Shoe cap
905		501715101	*	Startup Guide (JAPANESE)
905		501715111	*	Startup Guide (ENGLISH)
905		501715121	*	Startup Guide (FRENCH, SPANISH)
905		501715131	*	Startup Guide (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE, DANISH, FINNISH, NORWEGIAN, POLISH, CZECH, HUNGARIAN, RUSSIAN, SLOVAK, UKRAINIAN)
905		501715141	*	Startup Guide (ARABIC, PERSIAN)
905		501715151	*	Startup Guide (SIMPLIFIED CHINESE)
905		501715161	*	Startup Guide (THAI, INDONESIAN)
905		501715171	*	Startup Guide (TRADITIONAL CHINESE)
905		501715181	*	Startup Guide (KOREAN)

No.		Part No.	SP	Description
	⚠	802235900		Rechargeable battery pack NP-BX1/J (J1)
	⚠	802235931		Rechargeable battery pack NP-BX1/UC (UC2)
	⚠	802235950		Rechargeable battery pack NP-BX1/CE (EXCEPT UC2, CN1, J1)
	⚠	802235971		Rechargeable battery pack NP-BX1/CN (CN1)

Revision History

Date	History	Contents	S.M. Rev. issued
2020.05	Official Release	—	—

ZV-1 (UC2)
ZV-1 (CE3)
ZV-1 (E32)
ZV-1 (IN5)
ZV-1 (TW6)
ZV-1 (CN1)
ZV-1 (KR2)
ZV-1 (J1)
9-896-889-31

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