

DSLR-A200

SERVICE MANUAL

LEVEL 2

Ver. 1.3 2008.06

Revision History

Revised-1

Replace the previously issued SERVICE MANUAL 9-852-244-31 with this manual.



AEP Model
UK Model
Chinese Model
Korea Model
Japanese Model

Link

SPECIFICATIONS	BLOCK DIAGRAMS	PRINTED WIRING BOARDS
SERVICE NOTE	FRAME SCHEMATIC DIAGRAMS	REPAIR PARTS LIST
DISASSEMBLY	SCHEMATIC DIAGRAMS	

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

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

DIGITAL SINGLE LENS REFLEX CAMERA

SONY[®]



SPECIFICATIONS

Camera

[System]

Camera Type Digital Single Lens Reflex Camera with built-in flash and interchangeable lenses

Lens All of α Lenses

[Image sensor]

Total pixel number of camera
Approx. 10 800 000 pixels

Effective pixel number of camera
Approx. 10 200 000 pixels

Image format
23.6 × 15.8mm (APS-C format) Interlace scan
Primary Color

ISO sensitivity (Recommended exposure index)
AUTO, 100 to 3200

[Super SteadyShot]

System Image sensor-Shift mechanism

Super SteadyShot Compensation capability
Approximately 2.5 to 3.5 EV decrease in shutter speed (varies according to shooting conditions and lens used)

[Anti-Dust]

System Charge protection coating on Low-Pass Filter and image sensor-Shift mechanism

[Viewfinder]

Type Fixed eye-level, penta-Dach-mirror

Focusing Screen
Spherical Acute Matte

Field of View
0.95

Magnification
0.83 × with 50 mm lens at infinity, -1 m^{-1}

Eye Relief
Approximately 17.6 mm from the eyepiece, 13.5 mm from the eyepiece frame at -1 diopter (-1 m^{-1})

Diopter Adjustment
 -2.5 to $+1.0 \text{ m}^{-1}$

[Auto Focus System]

System TTL phase-detection system, CCD line sensors (9 points, 8 lines with center cross-hair sensor)

Sensitivity Range
0 to 18 EV (at ISO 100 equivalent)

AF illuminator
Approx. 1 to 5 m (3.3 to 16 feet)

[Exposure]

Metering Cell
40-segment honeycomb-pattern SPC

Metering Range
1 to 20 EV (3 to 20 EV with Spot metering), (at ISO 100 with F1.4 lens)

Exposure compensation
 ± 2.0 EV (1/3 EV step)

[Shutter]

Type Electronically-controlled, vertical-traverse, focal-plane type

Speed range 1/4000 second to 30 seconds, bulb, (1/3 EV step)

Flash sync speed
1/160 second

[Built-In-Flash]

Flash G.No.
GN 12 (in meters at ISO 100)

Recycling time
Approx. 4 seconds

Flash coverage
Covering 18 mm lens (focal length that the lens indicates)

Flash compensation
 ± 2.0 EV (1/3 EV step)

[Recording media]

CompactFlash card (Type I, II), Microdrive, "Memory Stick Duo"
(With a Memory Stick Duo Adaptor for CompactFlash slot)

[LCD monitor]

LCD panel 6.7 cm (2.7 type) TFT drive

Total number of dots
230 400 (960 × 240) dots

[Power, general]

Used battery pack
Rechargeable battery pack NP-FM500H

[Others]

PictBridge Compatible

Exif Print Compatible

PRINT Image Matching III
Compatible

Dimensions
Approx. 130.8 × 98.5 × 71.3 mm (5 1/4 × 4 × 2 7/8 inches) (W/H/D, excluding protrusions)

Mass
Approx. 532 g (1 lb 2.8 oz) (without batteries, memory card and body accessories)

Operating temperature
0 to 40°C (32 to 104°F)
(When using the Microdrive: 5 to 40°C (41 to 104°F))

Exif Exif Ver.2.21

USB communication
Hi-Speed USB (USB 2.0 compliant)

BC-VM10 Battery charger

Input rating 100 V – 240 V AC, 50/60 Hz

Output rating
8.4 V DC, 750 mA

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

Storage temperature range
 -20 to $+60$ °C (-4 to $+140$ °F)

Maximum dimensions
Approx. 70 × 25 × 95 mm
(2 7/8 × 1 × 3 3/4 inches) (W/H/D)

Mass
Approx. 90 g (3.2 oz)

Rechargeable battery pack NP-FM500H

Used battery
Lithium-ion battery

Maximum voltage
DC 8.4 V

Nominal voltage
DC 7.2 V

Maximum charge current
2.0 A

Maximum charge voltage
DC 8.4 V

Capacity
11.8 Wh (1 650 mAh)

Maximum dimensions
Approx. 38.2 × 20.5 × 55.6 mm (1 9/16 × 13/16 × 2 1/4 inches) (W/H/D)

Mass
Approx. 78 g (2.8 oz)

Design and specifications are subject to change without notice.

1-1. CHEMICALS

Some chemicals used for servicing are highly volatile.

Their evaporation caused by improper management affects your health and environment, and wastes resources.

Manage the chemicals carefully as follows.

- Store chemicals sealed in a specific place to prevent from exposure to high temperature or direct sunlight.
- Avoid dividing chemicals into excessive numbers of small containers to reduce natural evaporation.
- Keep containers sealed to avoid natural evaporation when chemicals are not in use.
- Avoid using chemicals as much as possible. When using chemicals, divide only required amount to a small plate from the container and use up it.

1-2. EXTERIOR PARTS

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

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

1-3. 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.

1-4. 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
 - Keep the temperature of the soldering iron around 270 °C during repairing.
 - 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.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

SAFETY-RELATED COMPONENT WARNING!!

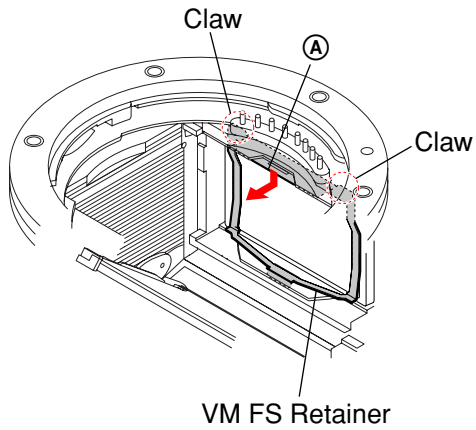
COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

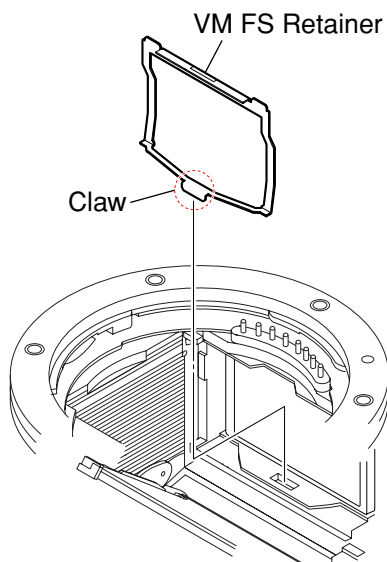
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

1-5. METHOD OF EXCHANGING SI SCREEN AND FOCUS PLATE

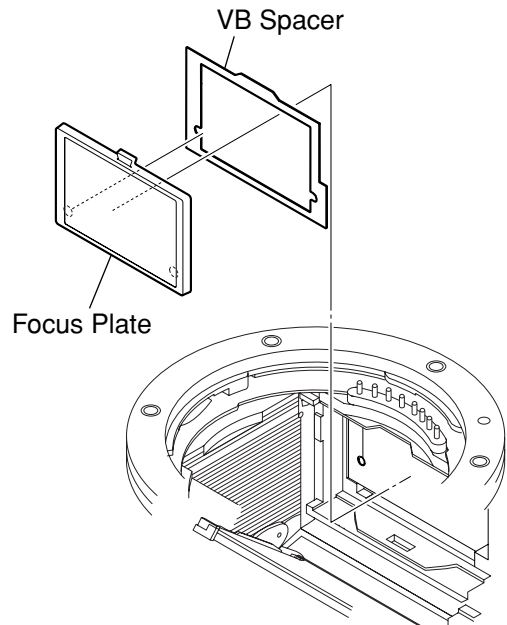
- ① Remove two claws pushing part **A** below, and remove VM FS retainer in the direction of arrow.



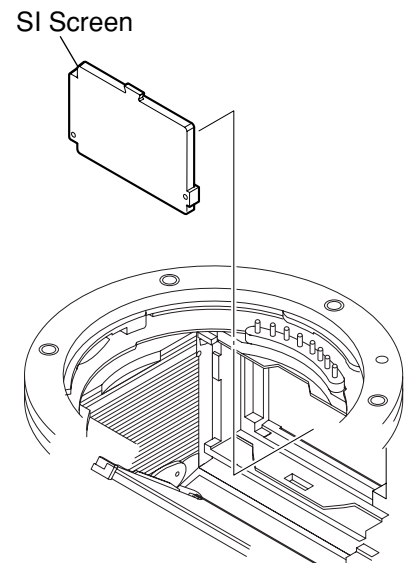
- ② Remove VM FS retainer.



- ③ Remove focus plate and VB spacer.



- ④ Remove SI screen.



Note: When you exchange the SI screen, don't put dust or give a scratch.

1-1. 各種薬品の取り扱いについて

現在使用されている薬品の中には揮発性の高い薬品もあります。それらを不用意に取り扱い蒸発させてしまうと、環境や健康へ影響を与えたり、資源の無駄使いになります。各種薬品は、下記の点に注意して取り扱ってください。

- ・ 保管場所を定め、高温になったり直射日光の当たらない場所に密閉して保管してください。
- ・ 小分け（ハンドラップ等）する数は必要最小限に留め、容器による自然蒸発を防いでください。
- ・ 作業に使用しない時は、必ずキャップ等をして自然蒸発を防いでください。
- ・ 薬品を使用する回数を極力少なくし、使用する場合は使用する量だけ容器より出して受け皿に残さないようにしてください。

1-2. 樹脂系部品の取り扱いについて

本機に使用されている樹脂系の部品は、下記の点に注意して取り扱ってください。

- ・ 清掃には薬品を使用せず、清掃紙や清掃布を使用してください。やむを得ず汚れがひどくて薬品を使用する場合は、シンナー、ケトン、エーテルは使用しないでください。
- ・ 各部品の取り付けには指定されたねじを使用し、部品に対して垂直に取り付けてください。また、ねじを締め付ける時は、無理な力を加えないでください。

1-3. 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。

1-4. SAFETY CHECK-OUT

サービス、点検時には次のことにご注意ください。

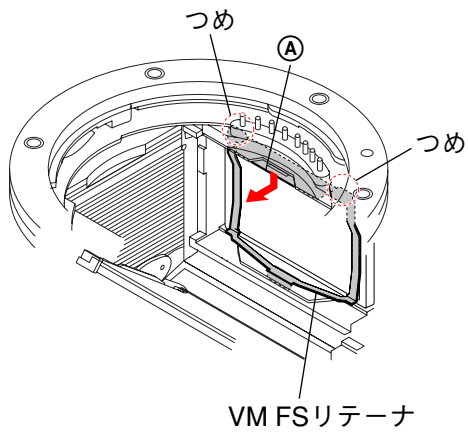
1. 注意事項をお守りください。
サービスのとき特に注意を要する個所については、キャビネット、シャーシ、部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守りください。
2. 指定部品のご使用を
セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。
従って交換部品は、使用されていたものと同じ特性の部品を使用してください。
特に回路図、部品表に△印で指定されている安全上重要な部品は必ず指定のものをご使用ください。
3. 部品の取付けや配線の引きまわしはもとどおりに
安全上、チューブやテープなどの絶縁材料を使用したり、プリント基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プ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ください。
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ください。
5. チップ部品交換時の注意
 - ・取り外した部品は再使用しないでください。
 - ・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ください。
6. フレキシブルプリント基板の取扱いについて
 - ・こて先温度を270℃前後にして行なってください。
 - ・同一パターンに何度もコテ先を当てないでください。（3回以内）
 - ・パターンに力が加わらないよう注意してください。

注意

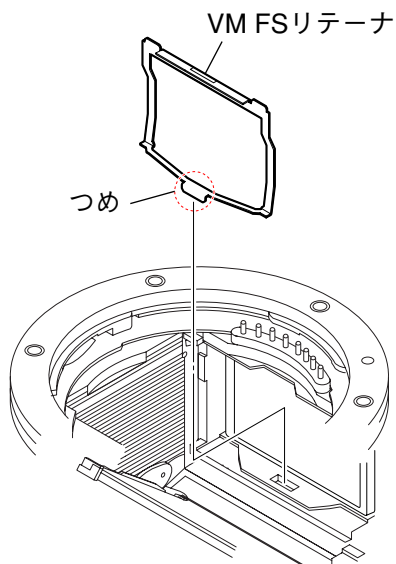
電池の交換は、正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。

1-5. SIスクリーン、焦点板の交換方法

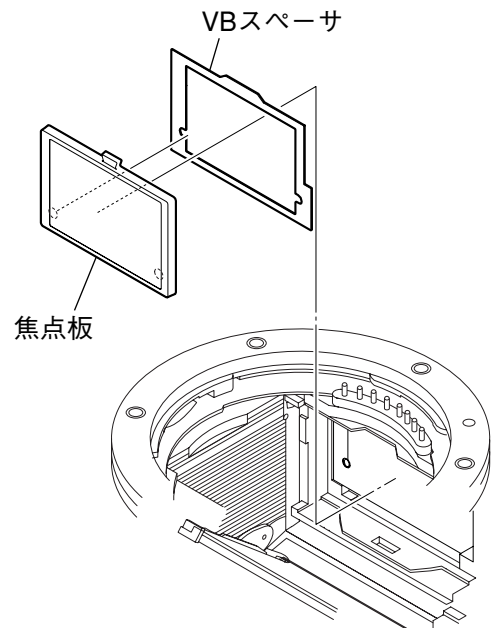
- ① ①部を下に押しつつめ2箇所を外し、矢印方向にVM FSリテーナを外す。



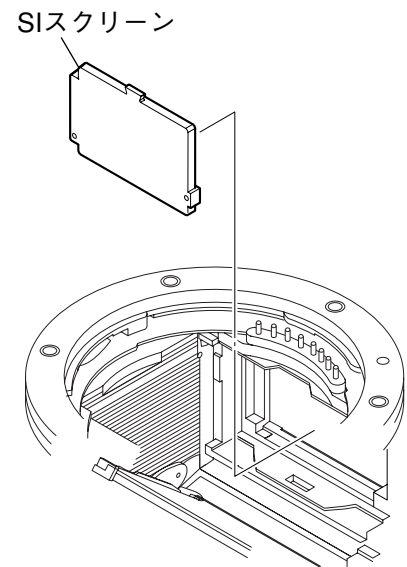
- ② VM FSリテーナを外す。



- ③ 焦点板とVBスペーサを外す。



- ④ SIスクリーンを外す。



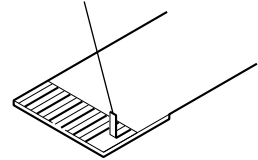
注意: SIスクリーン交換時は、SIスクリーンに埃や傷を付けないように注意してください。

2. DISASSEMBLY

NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked or bent at the terminal. Do not insert the cable insufficiently nor crookedly.
- When remove a connector, don't pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, don't press down at wire of connector. It is possible that a wire is snapped.
- Do not apply excessive load to the gilded flexible board.

Cut and remove the part of gilt which comes off at the point.
(Be careful or some pieces of gilt may be left inside)

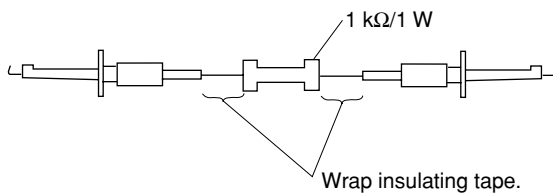


DISCHARGING OF THE ST-196 BOARD'S CHARGING CAPACITOR (C901)

The charging capacitor (C901) of the ST-196 board is charged up to the maximum 330 V potential. There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

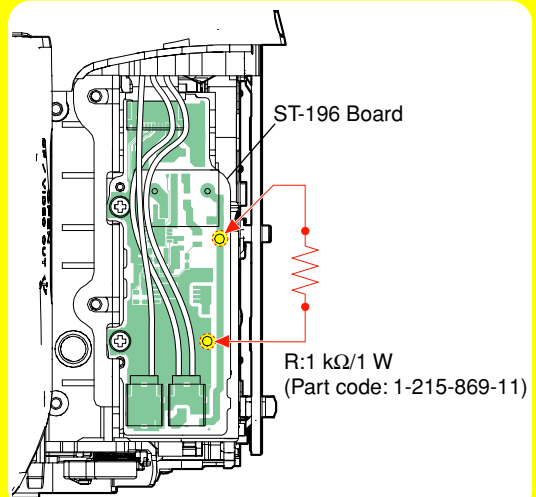
Preparing the Short Jig

To preparing the short jig, a small clip is attached to each end of a resistor of 1 k Ω / 1 W (1-215-869-11). Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.



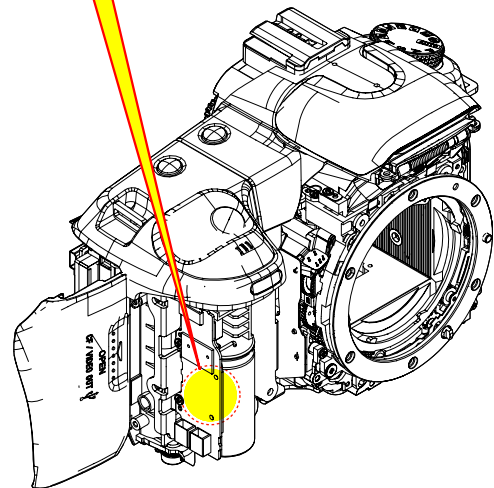
Note: High-voltage cautions

Discharging the Capacitor
Short-circuit between two points with the short jig about 10 seconds.

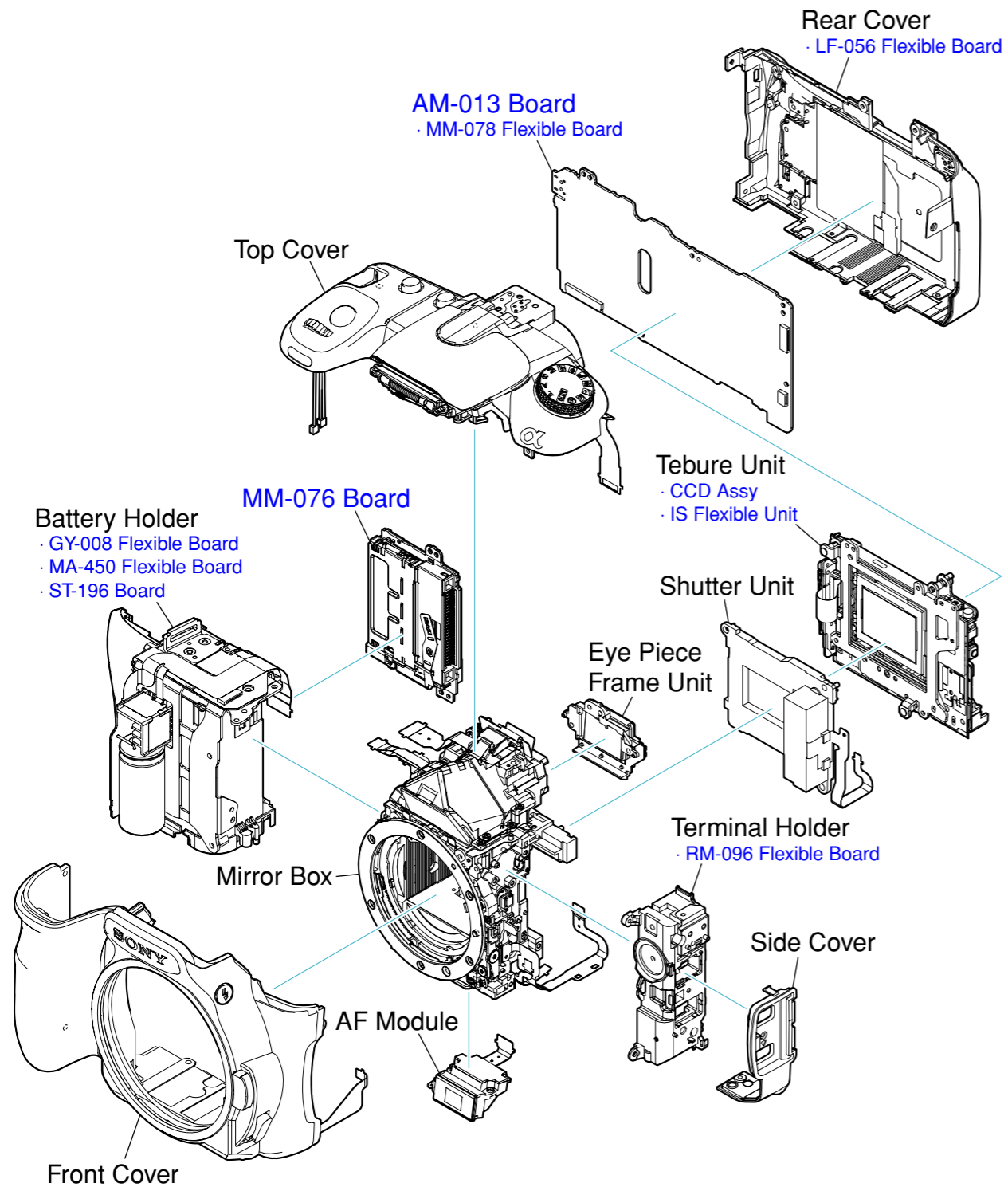


SUBSIDIARY MATERIALS

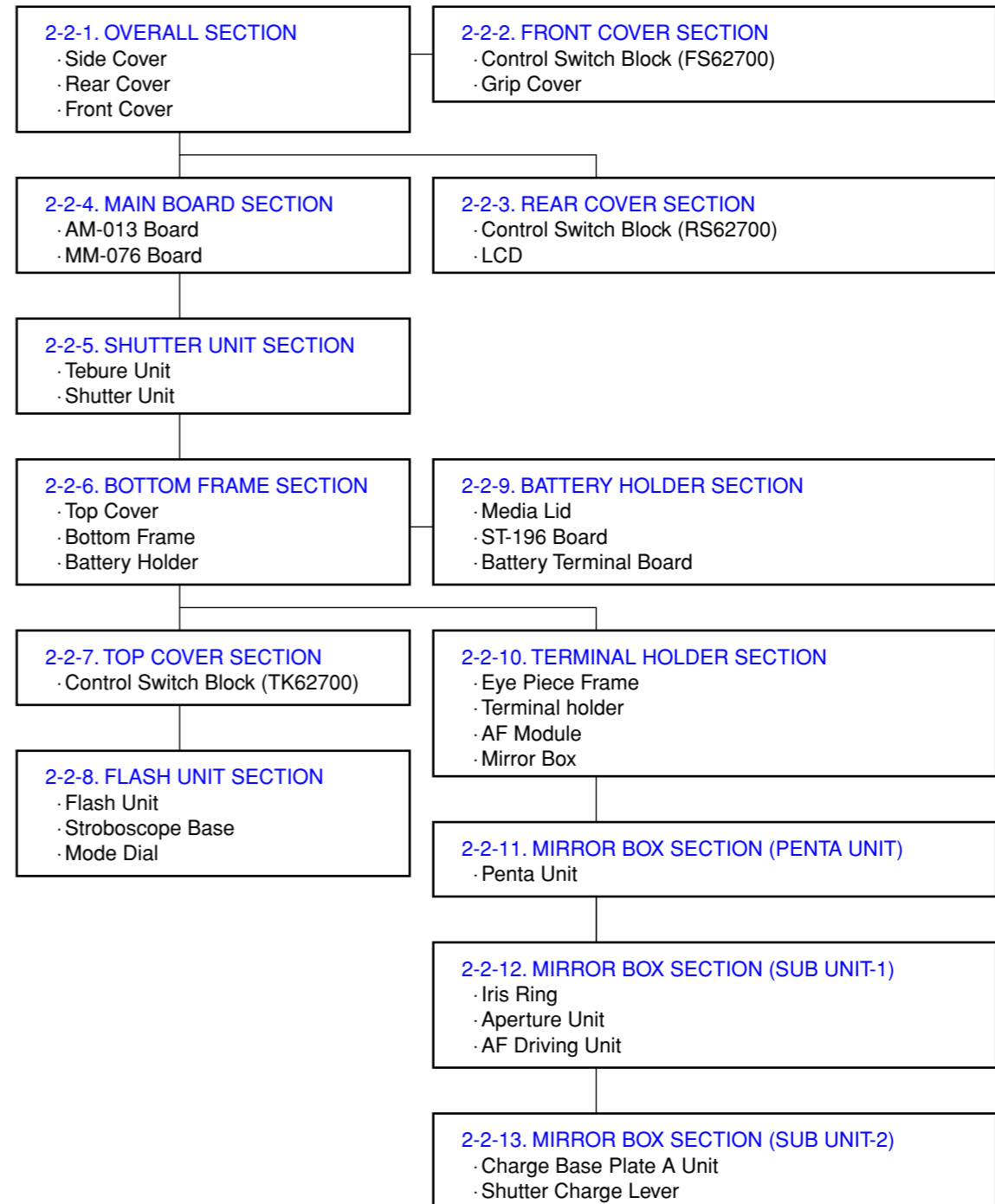
G: Grease
G-85 (J-6082-626-A)



2-1. IDENTIFYING PARTS



- DISASSEMBLY FLOW -



2-2. DISASSEMBLY

EXPLODED VIEW

HARDWARE LIST

2-2-1. OVERALL SECTION

Follow the disassembly in the numerical order given.

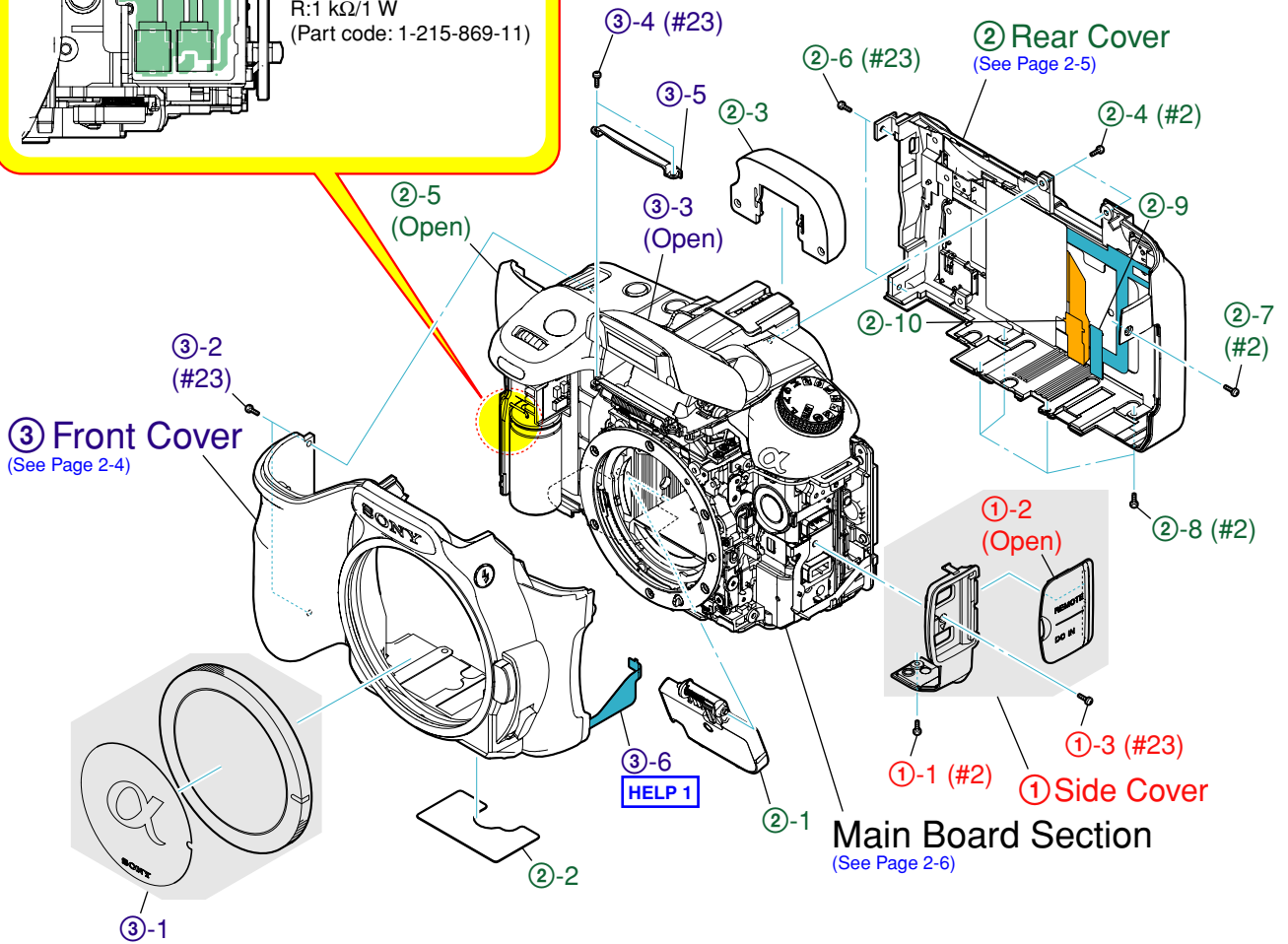
- ① Side Cover (①-1 to ①-3)
- ② Rear Cover (②-1 to ②-10)
- ③ Front Cover (③-1 to ③-6)

Note: High-voltage cautions

Discharging the Capacitor
Short-circuit between two points with the short jig about 10 seconds.

ST-196 Board

R: 1 kΩ/1 W
(Part code: 1-215-869-11)



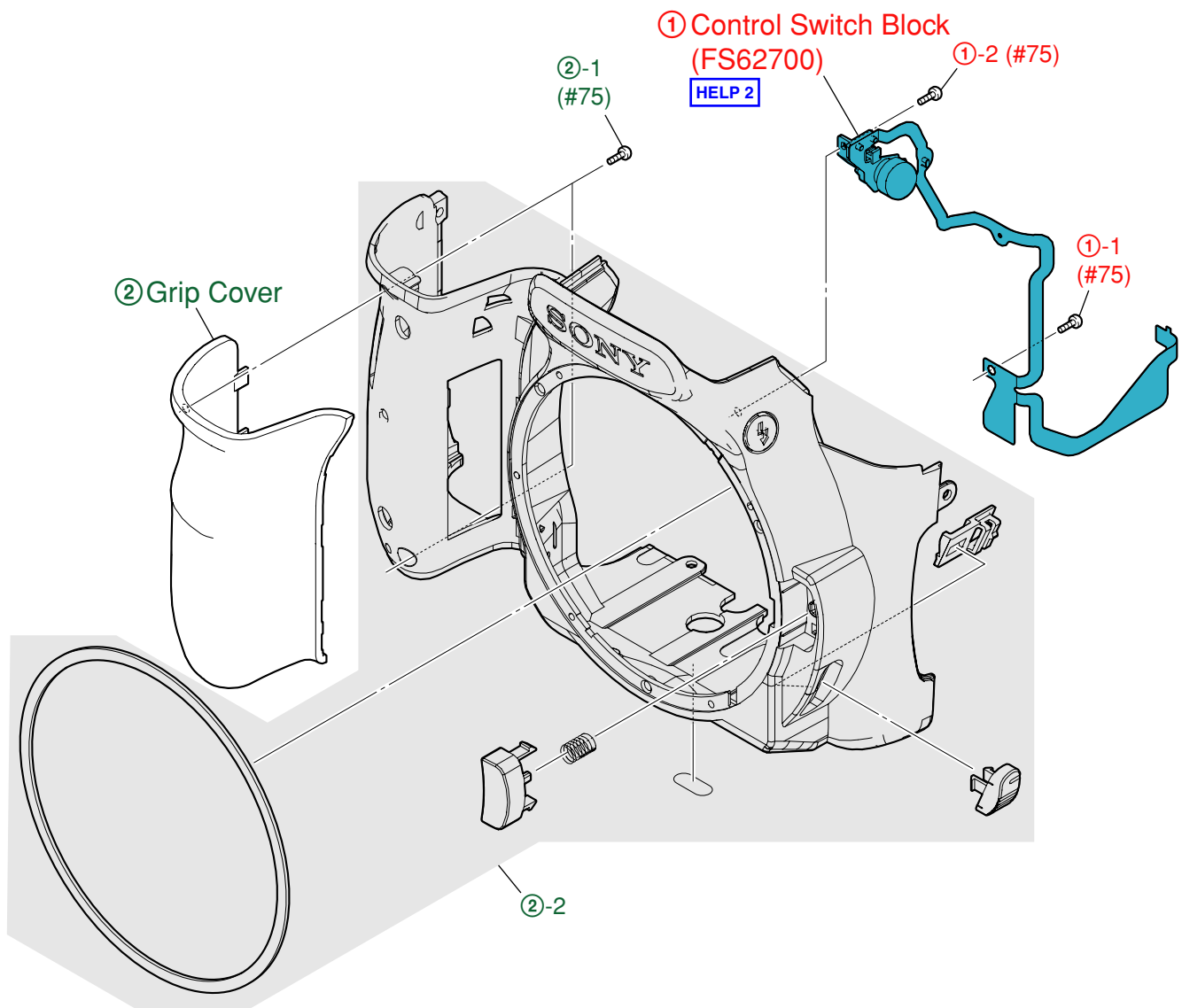
2-2-2. FRONT COVER SECTION

Follow the disassembly in the numerical order given.

- ① Control Switch Block (FS62700) (①-1 to ①-2)
- ② Grip Cover (②-1 to ②-2)

EXPLODED VIEW

HARDWARE LIST



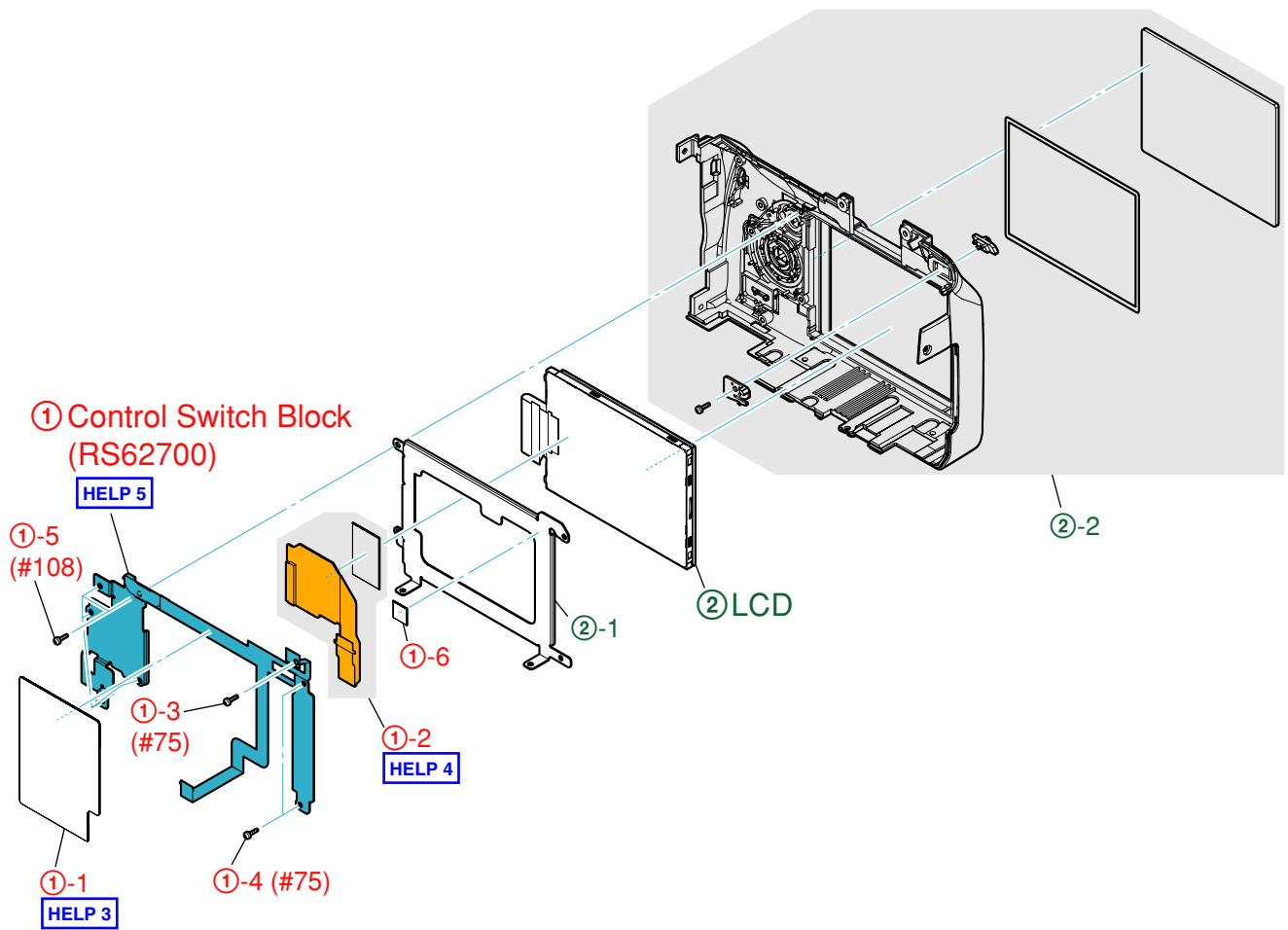
2-2-3. REAR COVER SECTION

Follow the disassembly in the numerical order given.

- ① Control Switch Block (RS62700) (①-1 to ①-6)
- ② LCD (②-1 to ②-2)

EXPLODED VIEW

HARDWARE LIST



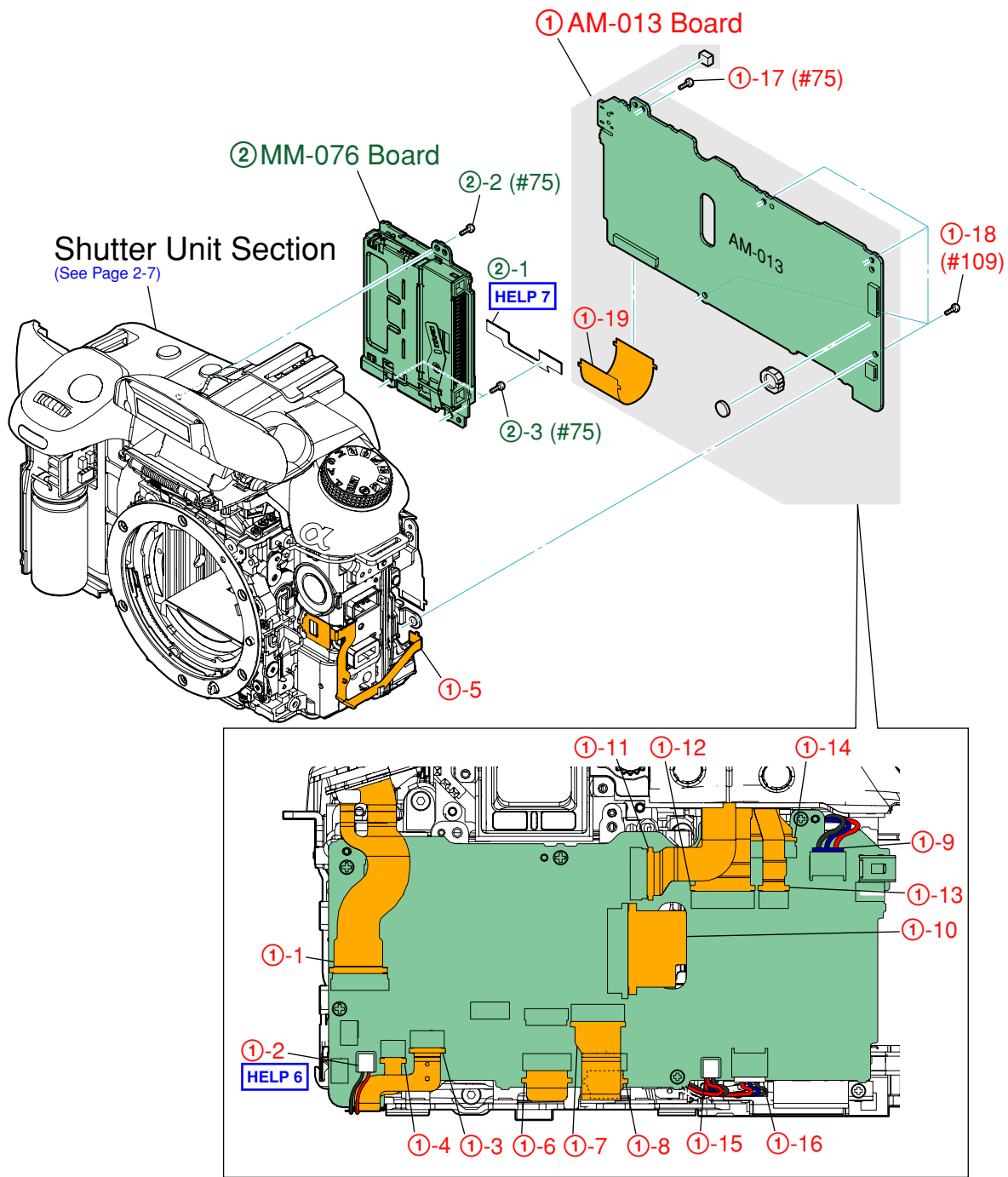
2-2-4. MAIN BOARD SECTION

Follow the disassembly in the numerical order given.

- ① AM-013 Board (①-1 to ①-19)
- ② MM-076 Board (②-1 to ②-3)

EXPLODED VIEW

HARDWARE LIST



2-2-5. SHUTTER UNIT SECTION

Follow the disassembly in the numerical order given.

- ① Tebure Unit (①-1 to ①-12)
- ② Shutter Unit (②-1)

EXPLODED VIEW

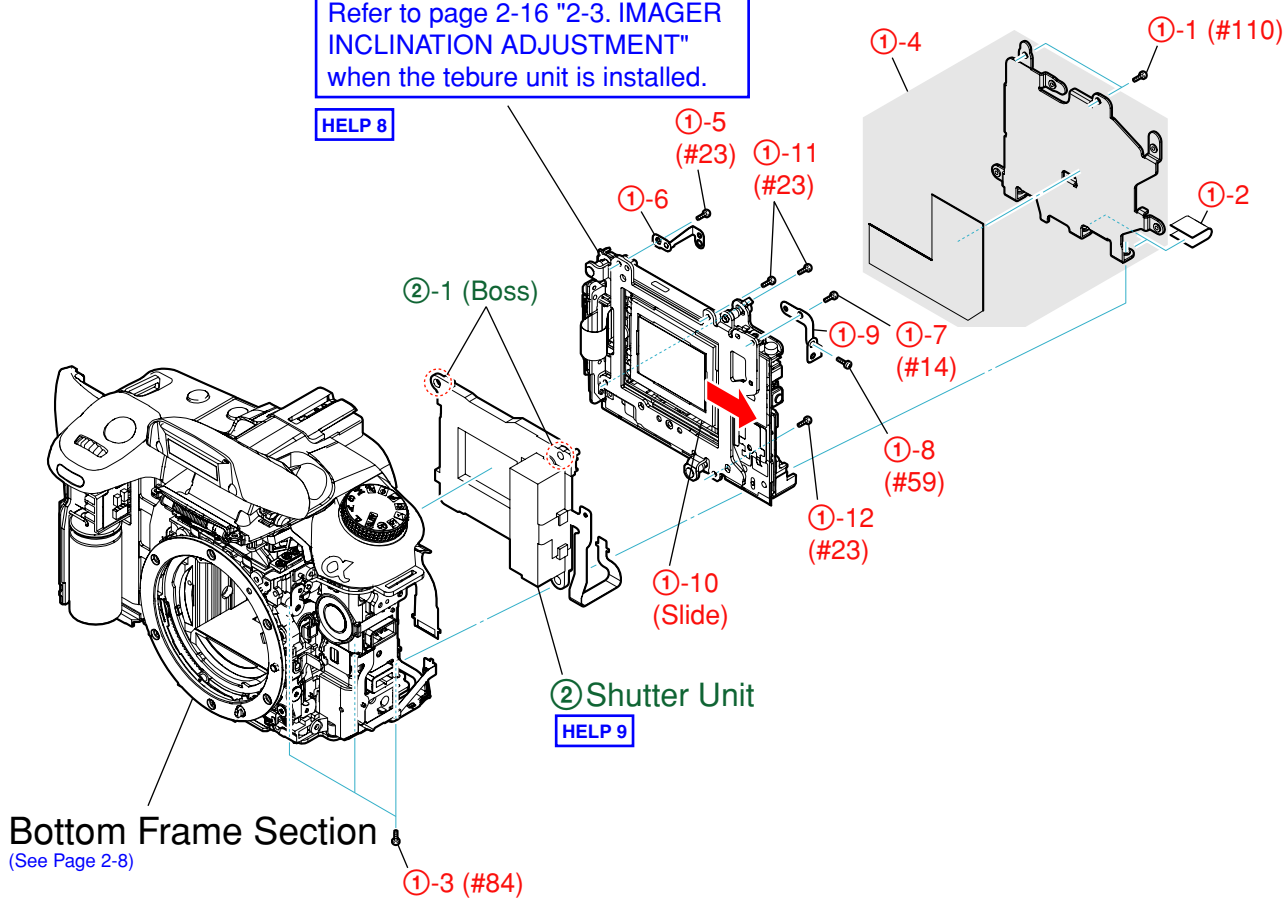
HARDWARE LIST

① Tebure Unit

Do not hang flexible board of mirror box when you remove Tebure Unit.

Refer to page 2-16 "2-3. IMAGER INCLINATION ADJUSTMENT" when the tebure unit is installed.

HELP 8



Bottom Frame Section
(See Page 2-8)

② Shutter Unit
HELP 9

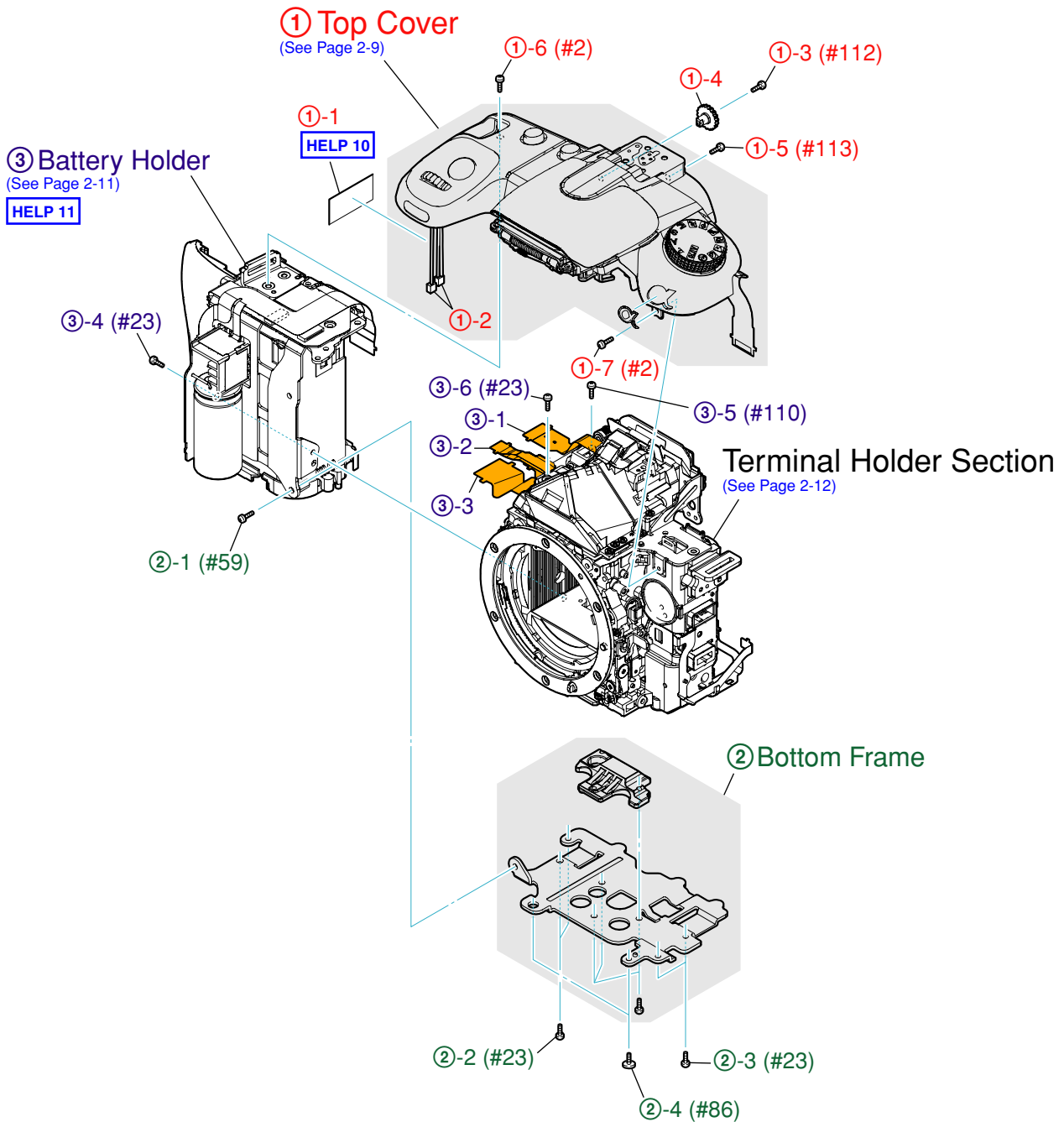
2-2-6. BOTTOM FRAME SECTION

Follow the disassembly in the numerical order given.

- ① Top Cover (①-1 to ①-7)
- ② Bottom Frame (②-1 to ②-4)
- ③ Battery Holder (③-1 to ③-6)

EXPLODED VIEW

HARDWARE LIST



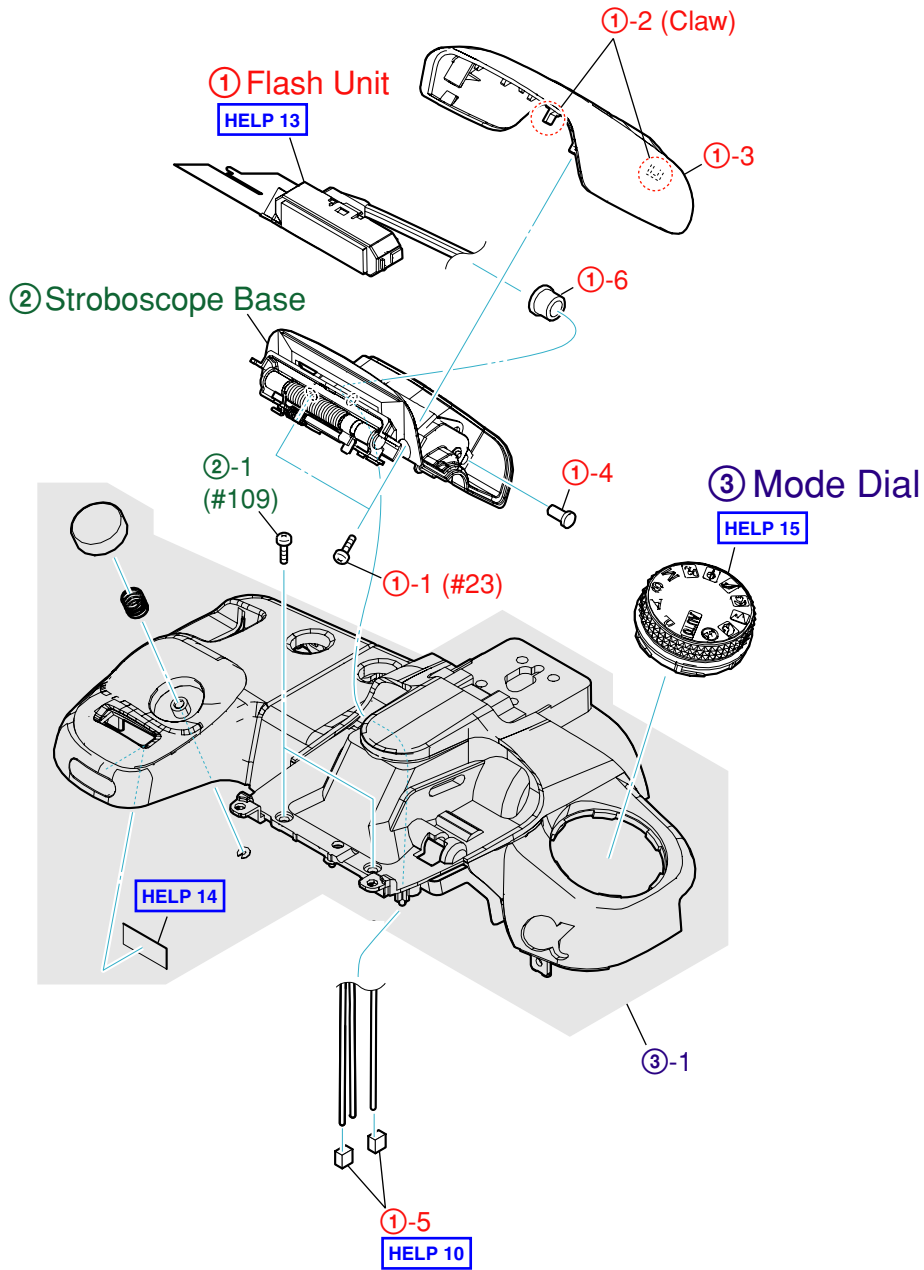
2-2-8. FLASH UNIT SECTION

Follow the disassembly in the numerical order given.

- ① Flash Unit (①-1 to ①-6)
- ② Stroboscope Base (②-1)
- ③ Mode Dial (③-1)

EXPLODED VIEW

HARDWARE LIST



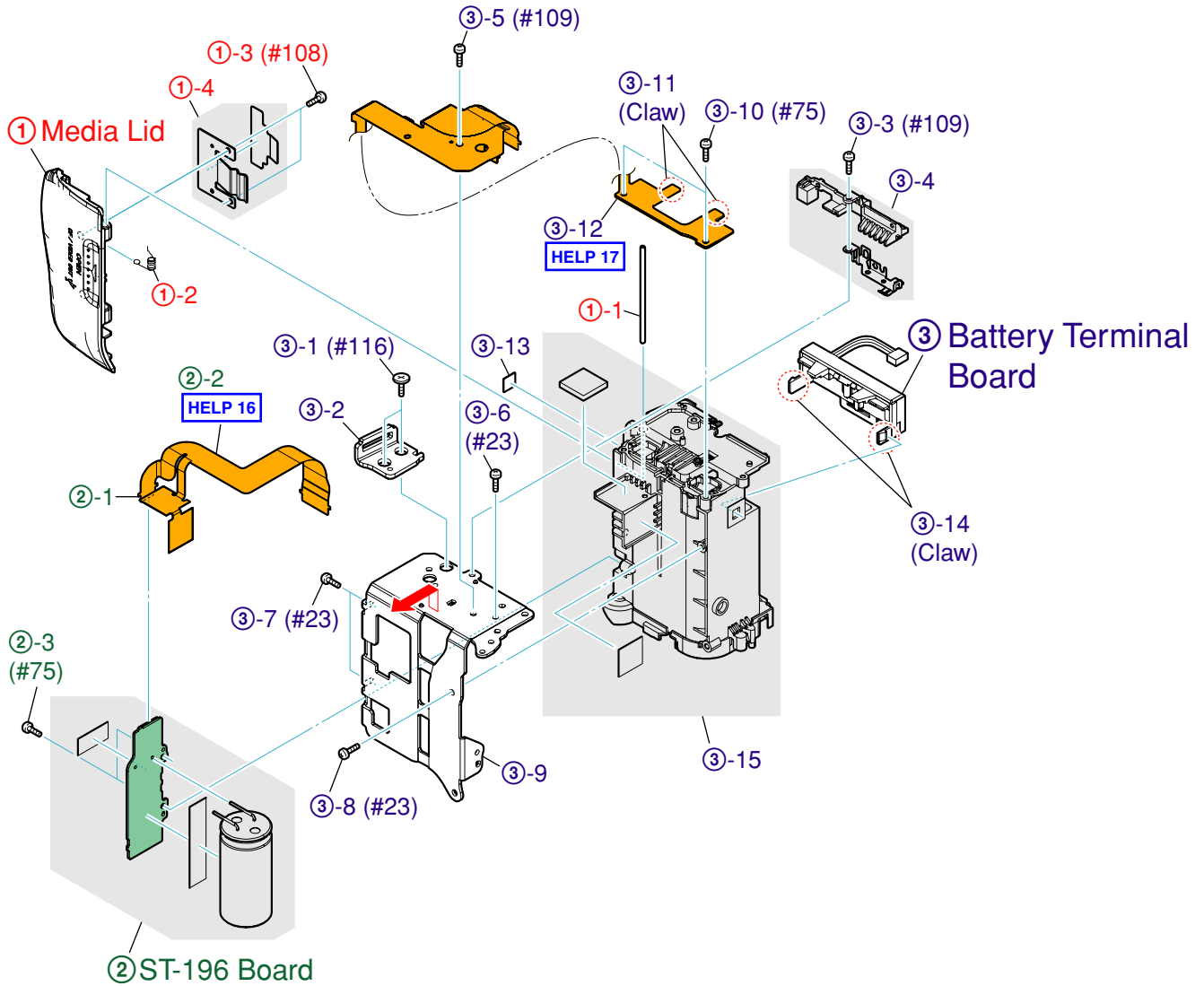
2-2-9. BATTERY HOLDER SECTION

Follow the disassembly in the numerical order given.

- ① Media Lid (①-1 to ①-4)
- ② ST-196 Board (②-1 to ②-3)
- ③ Battery Terminal Board (③-1 to ③-15)

EXPLODED VIEW

HARDWARE LIST



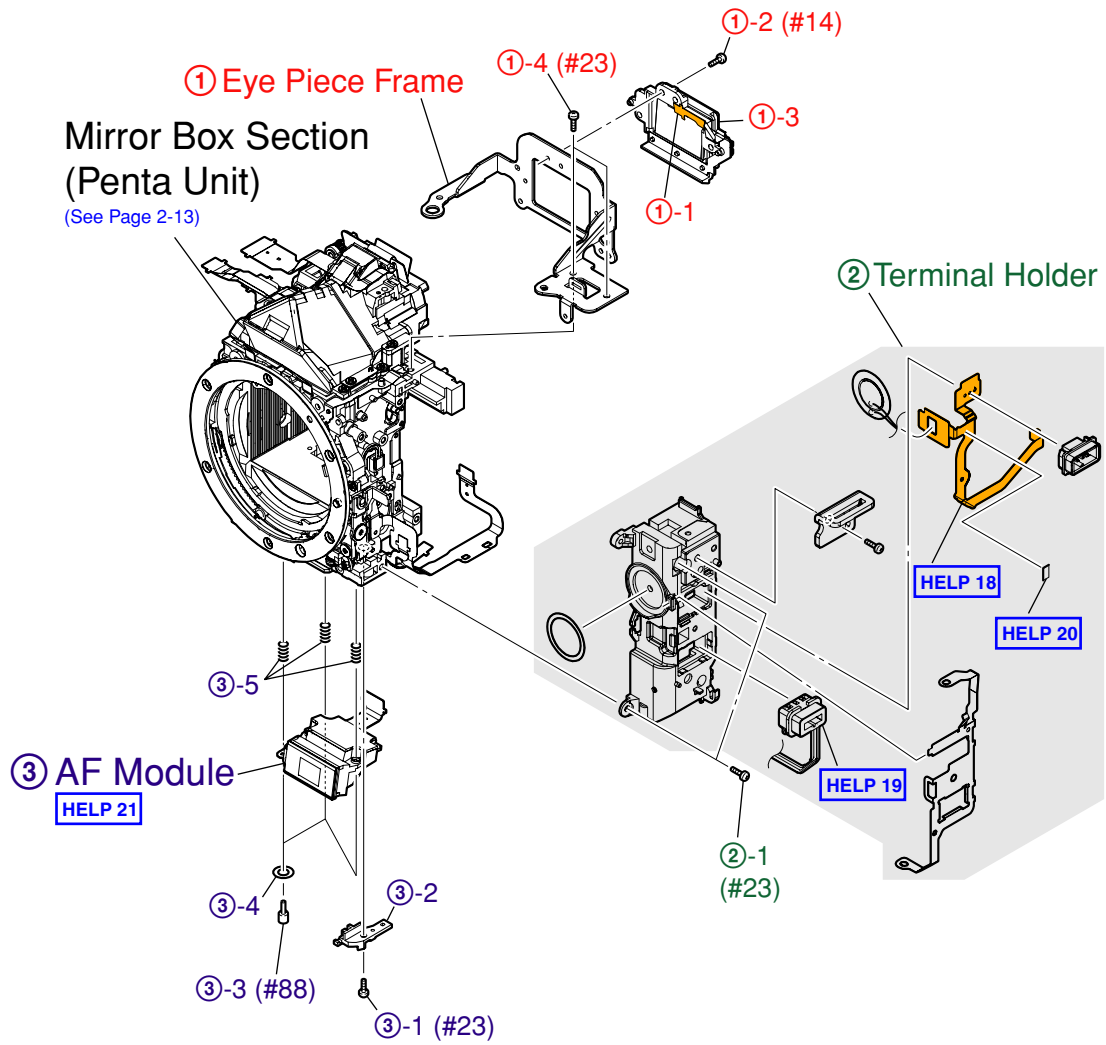
2-2-10. TERMINAL HOLDER SECTION

Follow the disassembly in the numerical order given.

- ① Eye Piece Frame (①-1 to ①-4)
- ② Terminal Holder (②-1)
- ③ AF Module (③-1 to ③-5)

EXPLODED VIEW

HARDWARE LIST



2-2-11. MIRROR BOX SECTION (PENTA UNIT)

Follow the disassembly in the numerical order given.

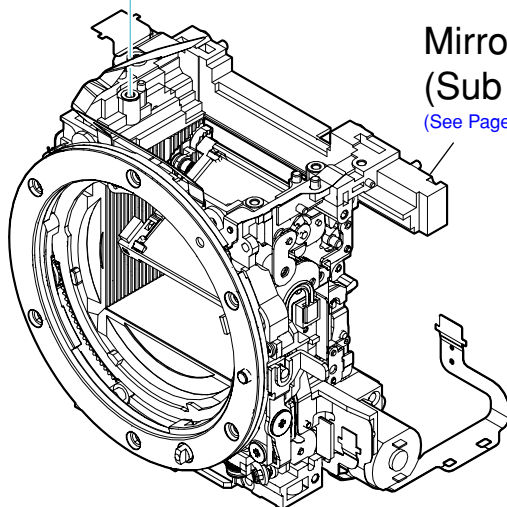
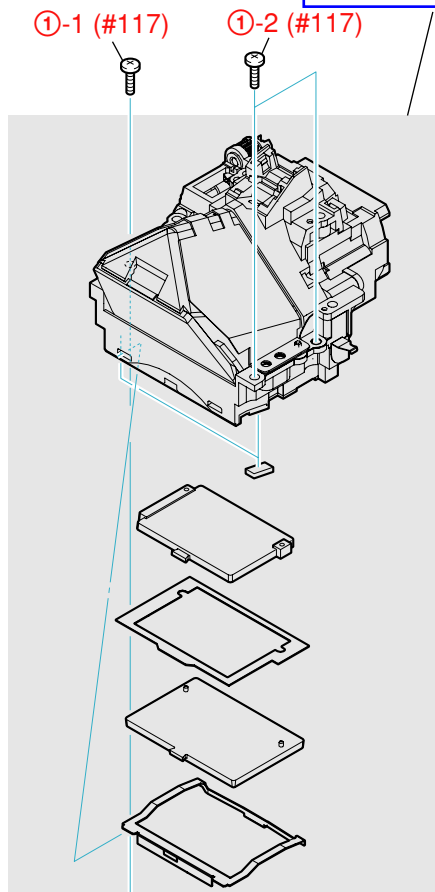
- ① Penta Unit (①-1 to ①-2)

EXPLODED VIEW

HARDWARE LIST

① Penta Unit

Refer to page 1-2 "1-5. METHOD OF EXCHANGING SI SCREEN AND FOCUS PLATE" when SI screen or focus plate are exchanged.



Mirror Box Section
(Sub Unit-1)

(See Page 2-14)

2-2-12. MIRROR BOX SECTION (SUB UNIT-1)

Follow the disassembly in the numerical order given.

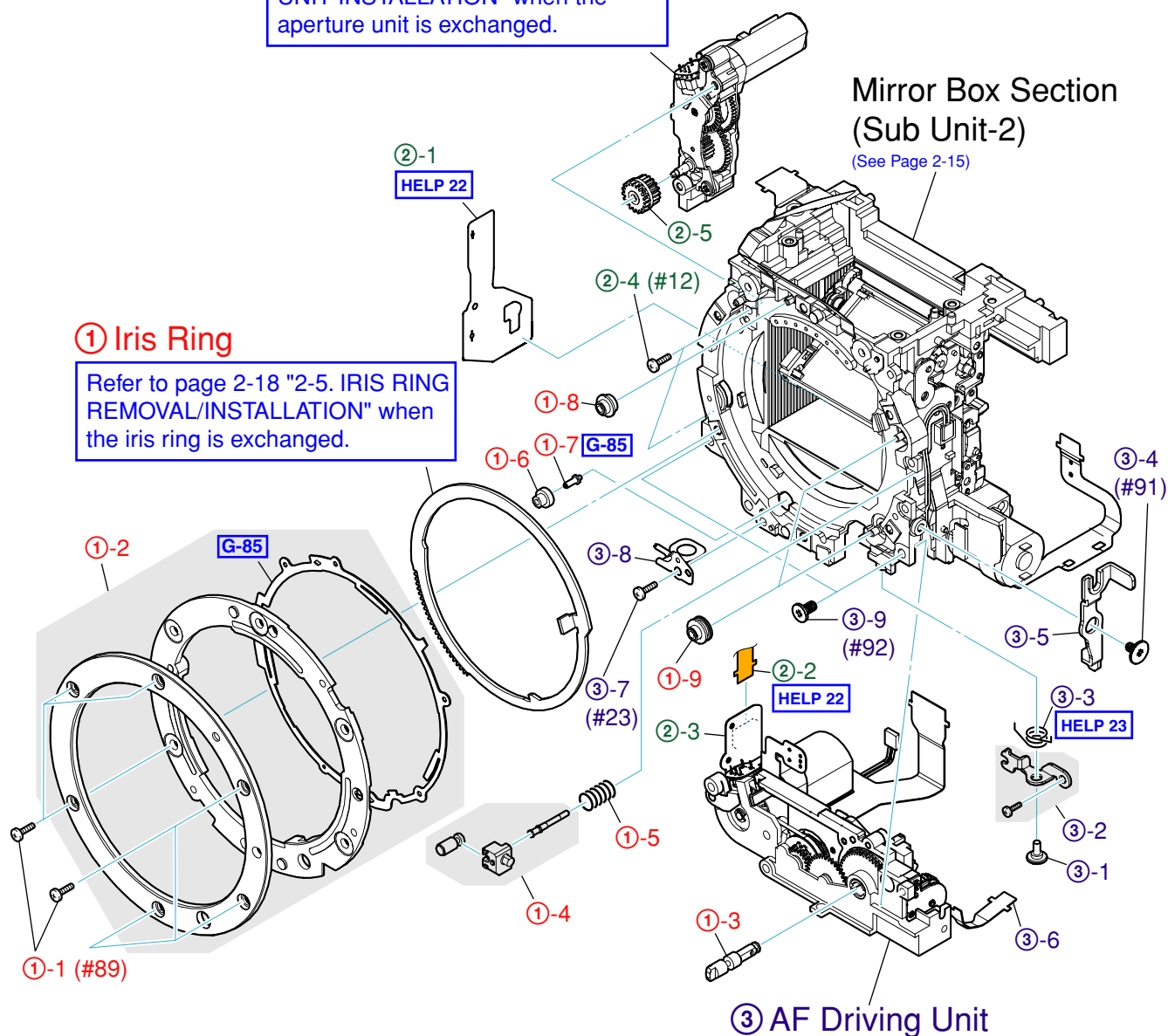
- ① Iris Ring (①-1 to ①-9)
- ② Aperture Unit (②-1 to ②-5)
- ③ AF Driving Unit (③-1 to ③-9)

EXPLODED VIEW

HARDWARE LIST

② Aperture Unit

Refer to page 2-18 "2-6. APERTURE UNIT INSTALLATION" when the aperture unit is exchanged.



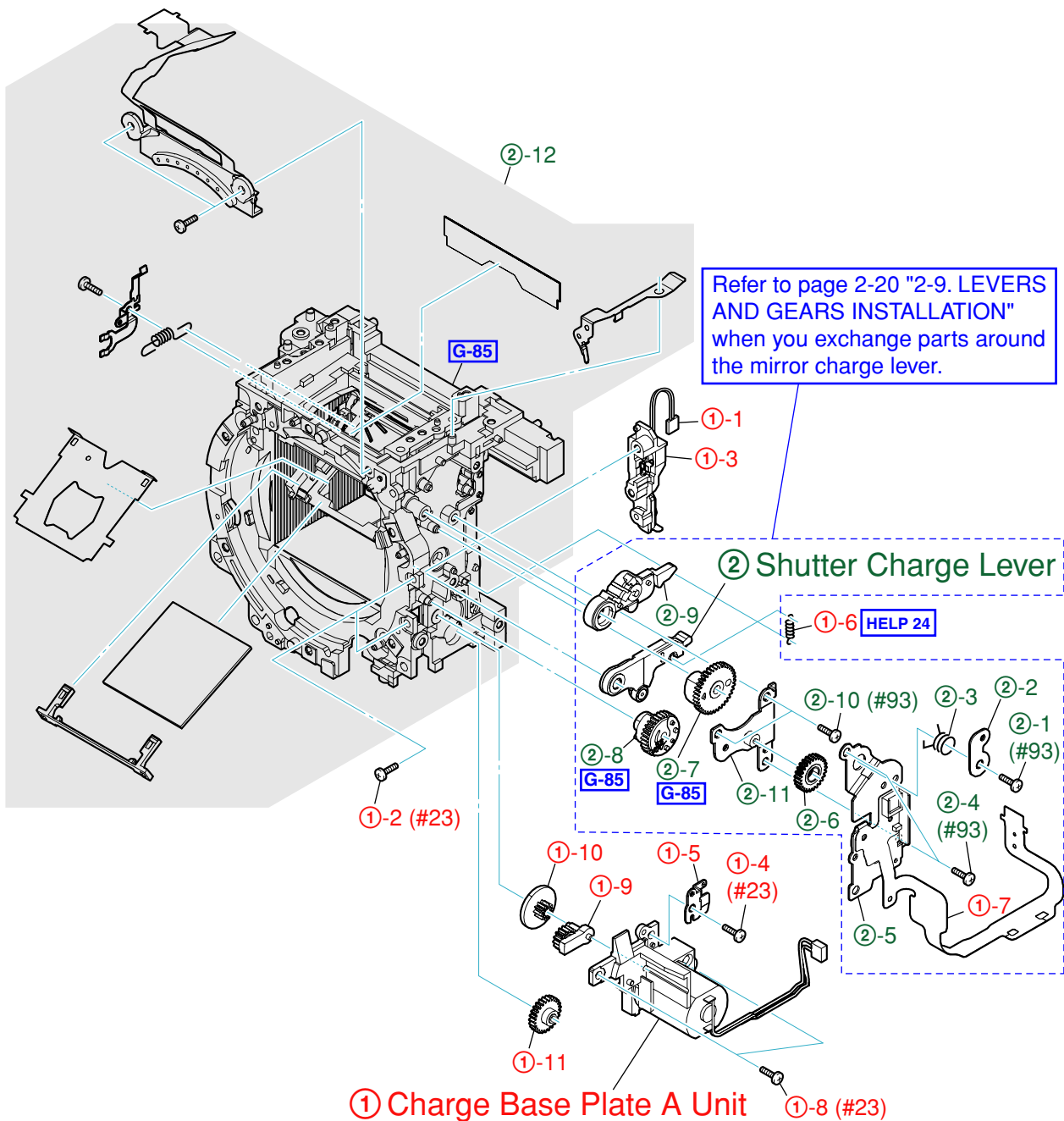
2-2-13. MIRROR BOX SECTION (SUB UNIT-2)

Follow the disassembly in the numerical order given.

- ① Charge Base Plate A Unit (①-1 to ①-11)
- ② Shutter Charge Lever (②-1 to ②-12)

EXPLODED VIEW

HARDWARE LIST



2-3. IMAGER INCLINATION ADJUSTMENT

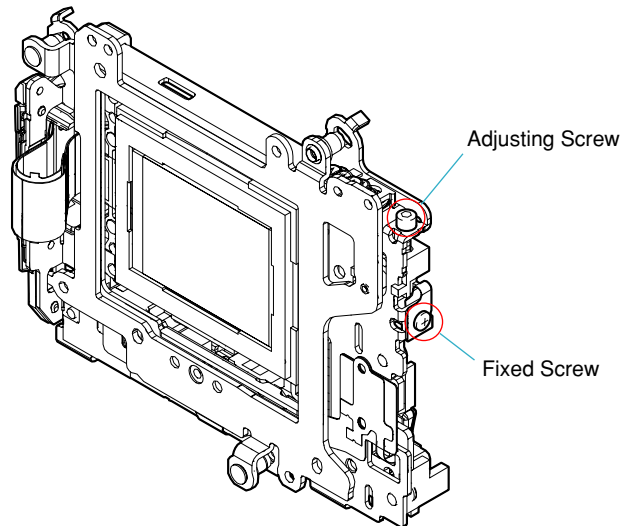
Checking Method

1. Use the copy stand or place a mirror on the wall, and adjust the accuracy so that the camera is opposed to the mirror.
2. Use the AE master lens as an inspection lens.
3. Obtain the inclination angle with the Photoshop, and perform as follows according to the angle:
 - For the angle above ± 1.0 degree, be sure to repair the camera.
 - For the angle above ± 0.5 degree and below ± 1.0 degree, repair the camera according to the user's requirement level.
 - For the angle below ± 0.5 degree, check again the angle to satisfy the specified value.

Adjusting Method

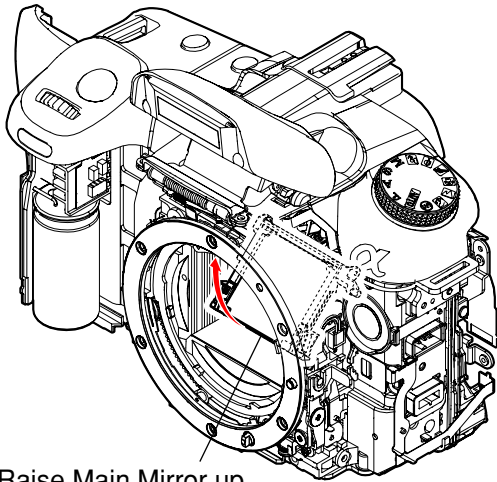
1. Loosen the fixed screw.
2. Adjust the inclination with the adjusting screw.
 - For an image that tilts to the right, rotate the screw clockwise.
 - For an image that tilts to the left, rotate the screw counterclockwise.
3. Tighten the fixed screw.

Imager Inclination Adjusting Screw

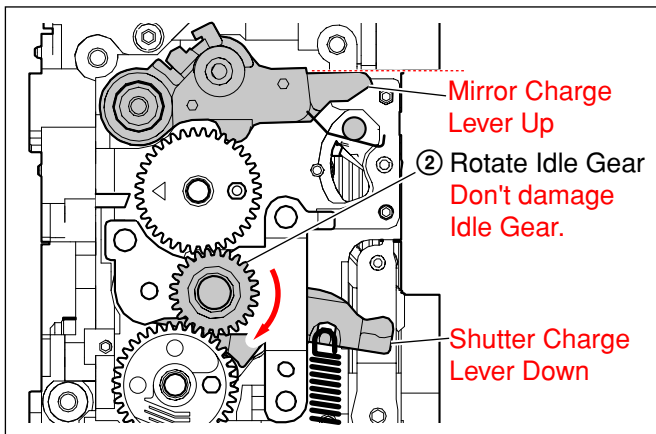


2-4. SHUTTER INSTALLATION

Follow the assembly in the numerical order given.



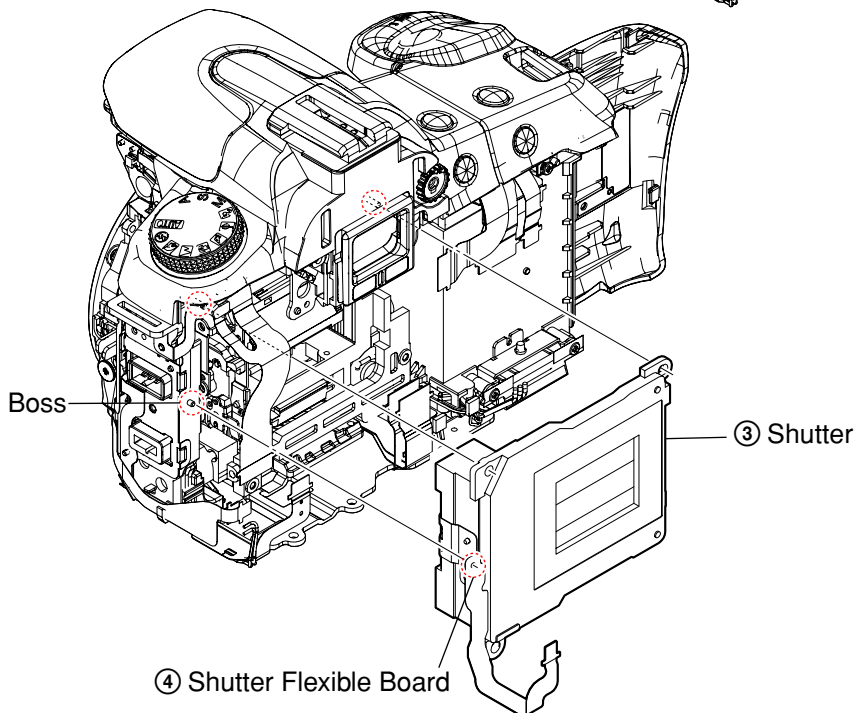
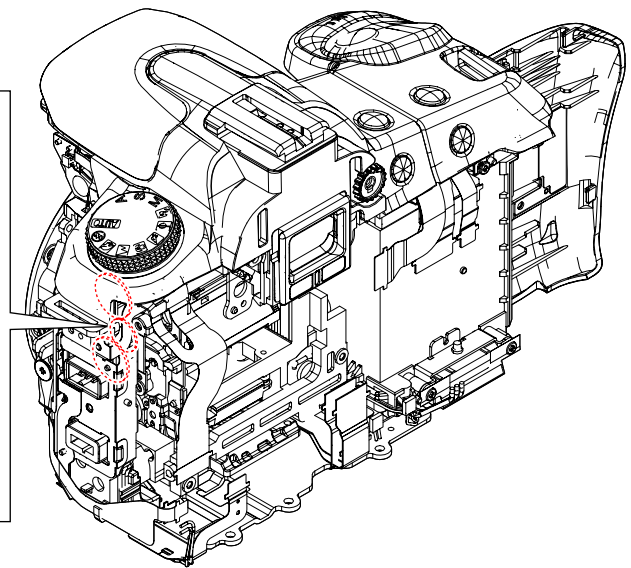
① Raise Main Mirror up.



Mirror Charge
Lever Up

② Rotate Idle Gear
Don't damage
Idle Gear.

Shutter Charge
Lever Down



④ Shutter Flexible Board

③ Shutter

2-5. IRIS RING REMOVAL/INSTALLATION

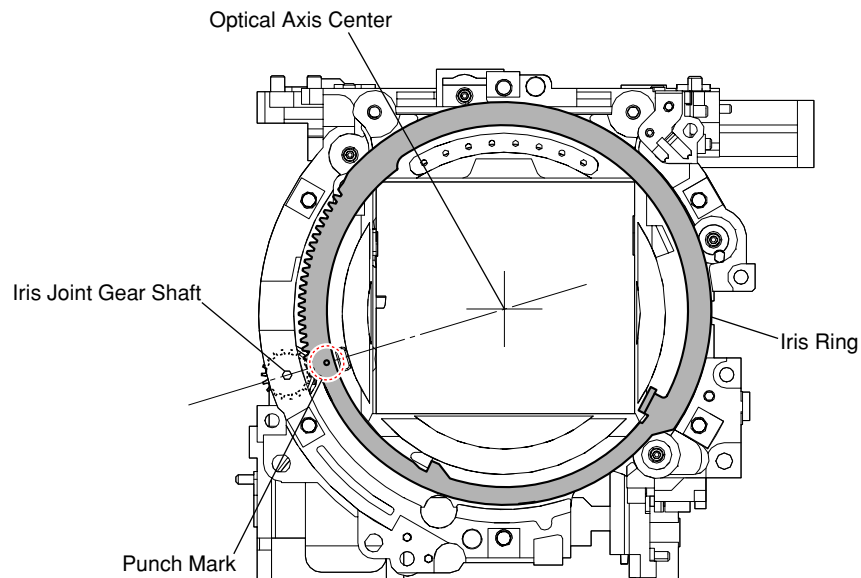
Removal

Rotate the iris ring clockwise, and remove it at the stop position (iris-in end).

At this time, do not rotate the iris joint gear of the Aperture Unit.

Installation

1. With the Aperture Unit set in the charge position (see "2-7. Aperture Unit Charge Position Setting"), install it on the front frame set.
 - * The Aperture Unit has been set in the charge position, if it is not removed.
 - However, the iris ring must be in the removed state (where the iris joint gear is not rotated).
2. Install the iris ring with it's a punch mark aligned with a line that connects the iris joint gear shaft and the optical axis center.



2-6. APERTURE UNIT INSTALLATION

* The Aperture Unit is supplied by being set in the charge position (initial position), but if this position is disordered when the Aperture Unit is removed, or if the charge position is to be set again, perform as follows.

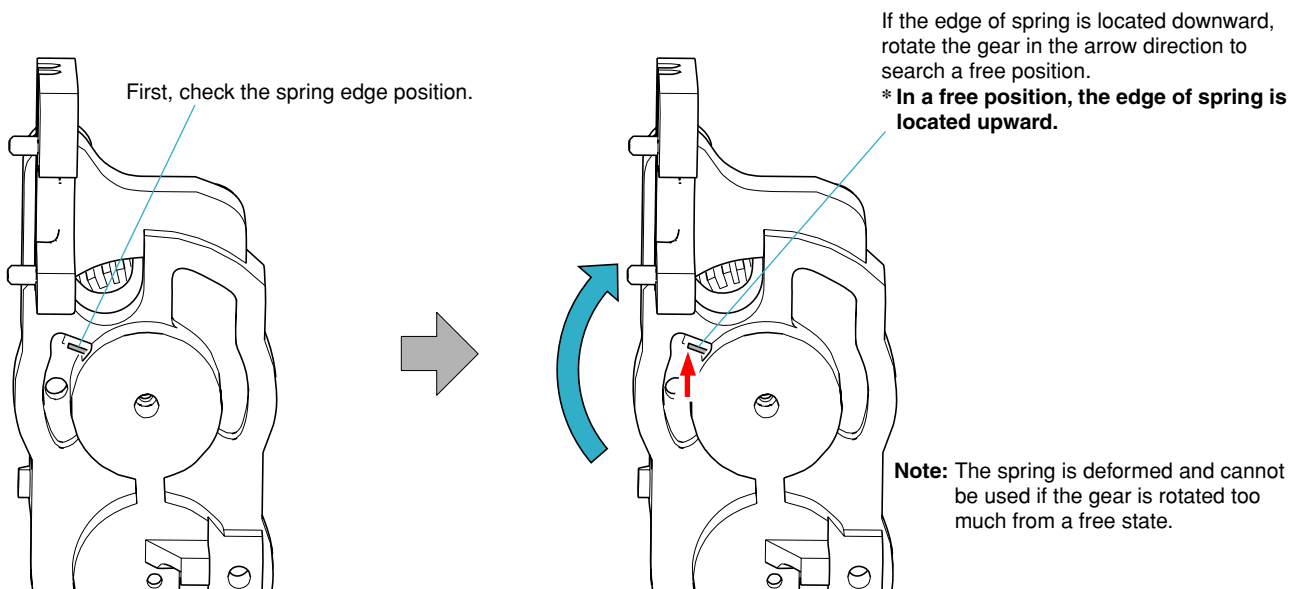
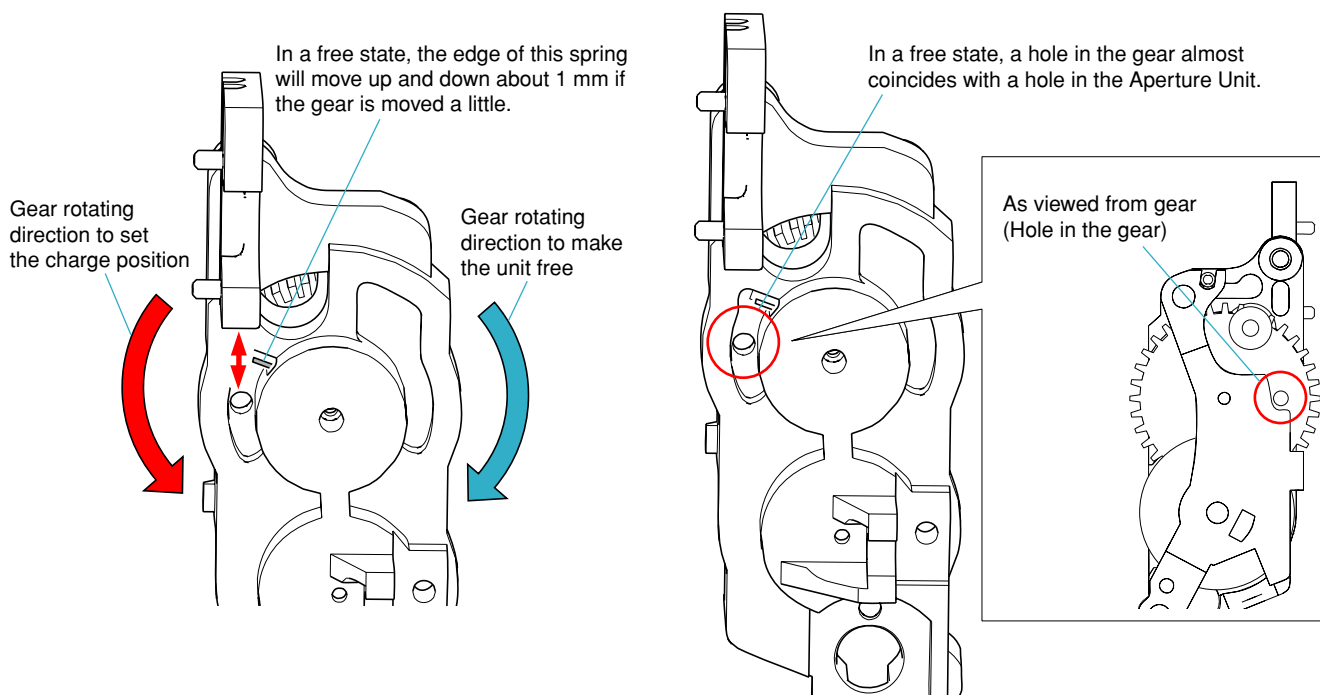
* Refer to "2-7. Aperture Unit Charge Position Setting" for the confirm method at the charge position.

2-7. APERTURE UNIT CHARGE POSITION SETTING

1. Check that the Aperture Unit is in a free state.
2. After confirming that the Aperture Unit is in a free state, rotate the gear by 3 turns.
3. After rotating the gear by 3 turns, set the Aperture Unit where the holes in the gear and the Aperture Unit coincide. This position is the charge position.
 - * Refer to "2-8. Aperture Unit Free Position Setting" for the setting and the confirm method at the free position.

2-8. APERTURE UNIT FREE POSITION SETTING

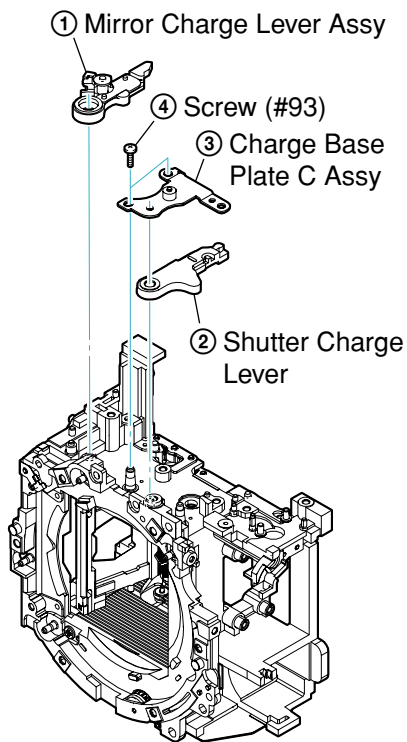
1. Set the Aperture Unit to a free position once, if the gear was rotated accidentally and the charge position is disordered, or if the charge position was shifted during disassembly.



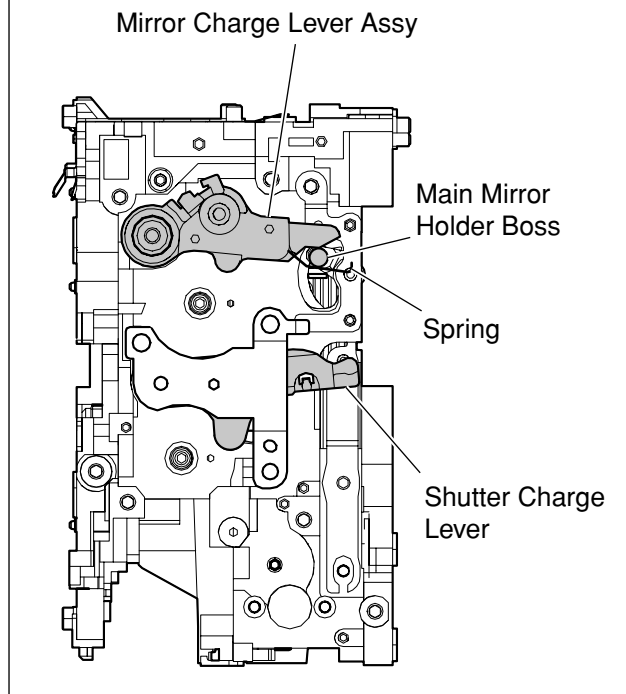
2-9. LEVER AND GEARS INSTALLATION

Follow the assembly in the numerical order given.

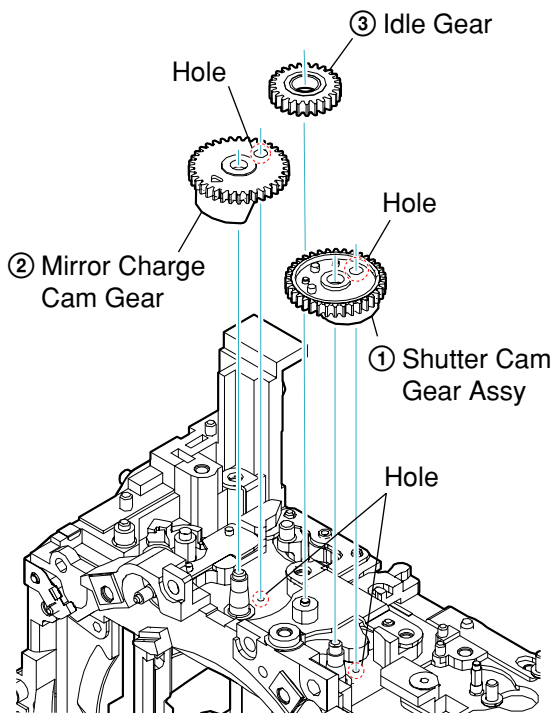
2-9-1. MIRROR CHARGE/SHUTTER CHARGE LEVERS INSTALLATION



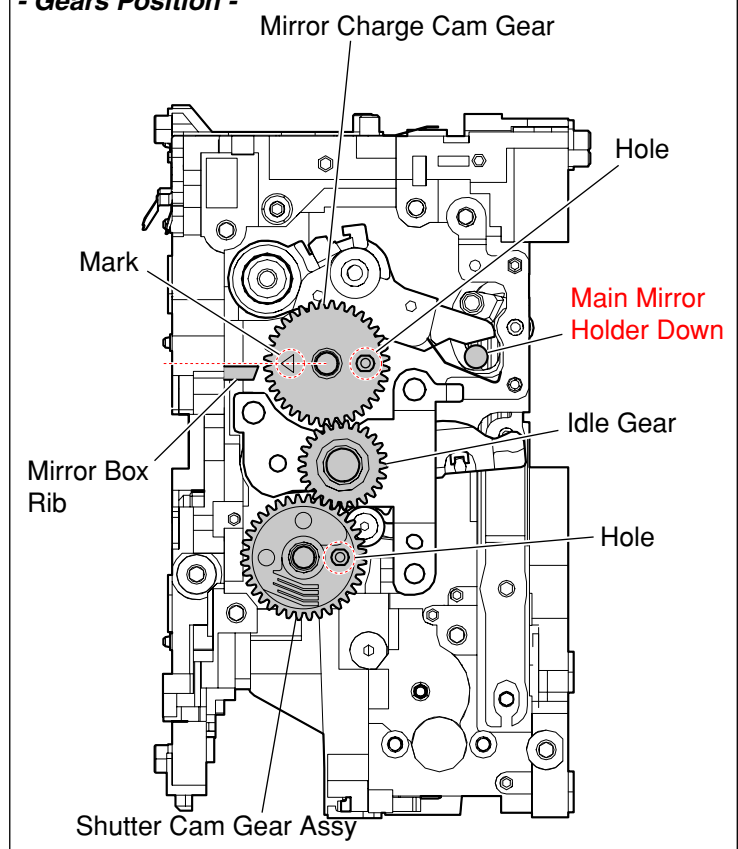
- Levers Position -



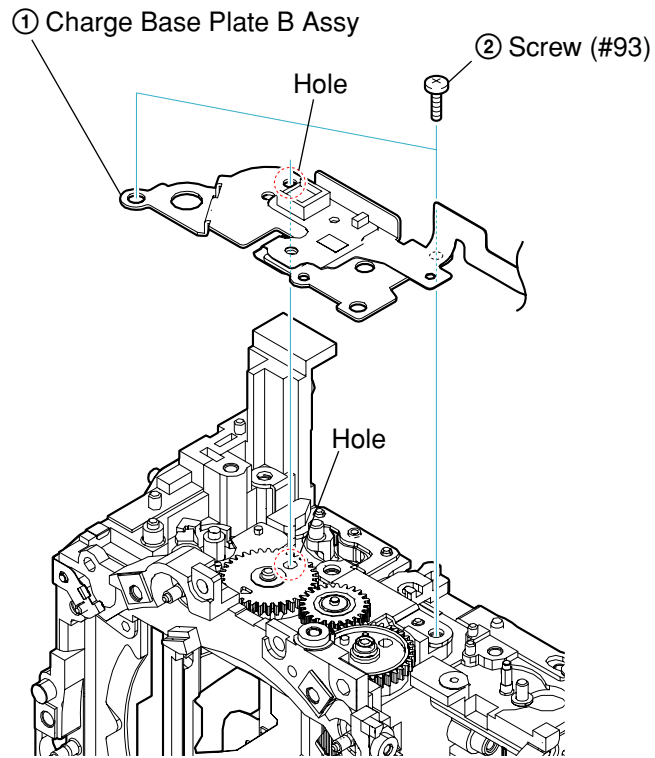
2-9-2. SHUTTER CAM/MIRROR CHARGE/IDLE GEARS INSTALLATION



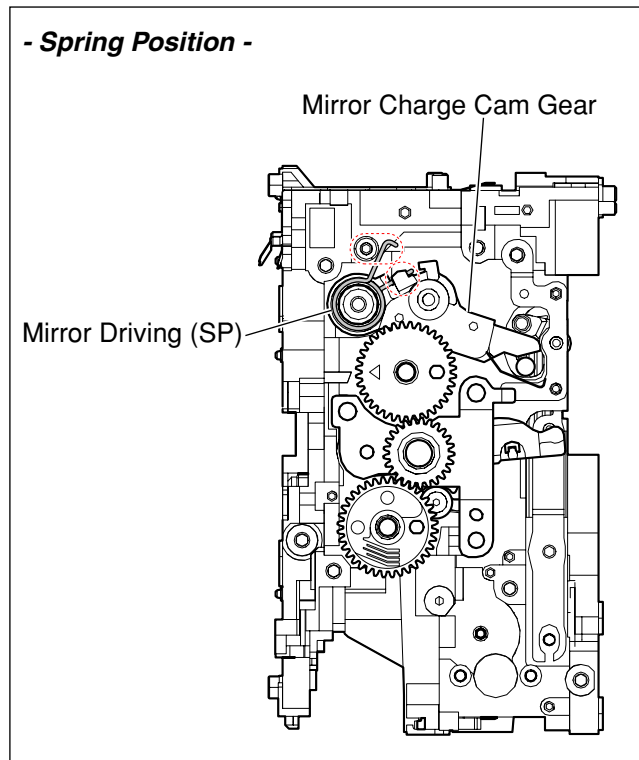
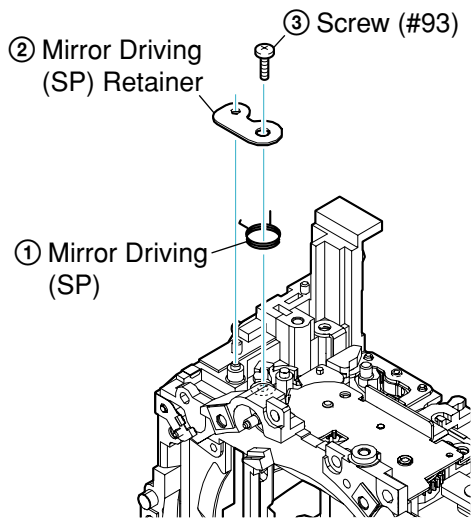
- Gears Position -



2-9-3. CHARGE BASE PLATE B INSTALLATION



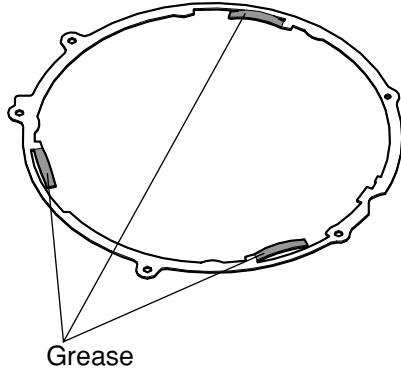
2-9-4. MIRROR DRIVING (SP) INSTALLATION



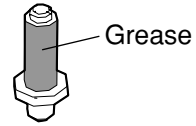
2-10.GREASE APPLICATION AREA

Grease uses G-85 (J-6082-626-A).

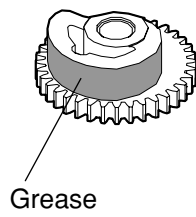
Ring (SP)



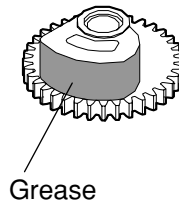
Ring Roller (C) Shaft



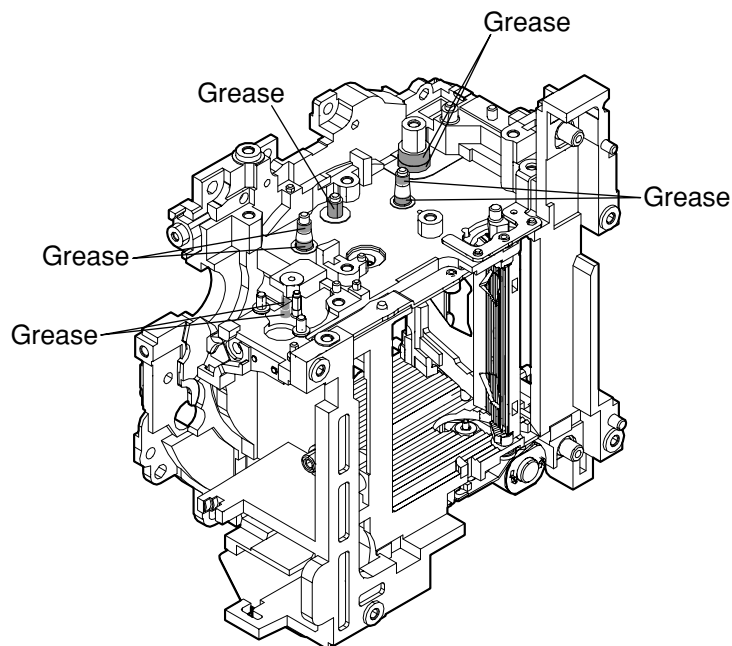
Shutter Cam Gear Assy



Mirror Charge Cam Gear



Front Frame Assy



2-11.CLEANING PROCEDURE OF OLPF

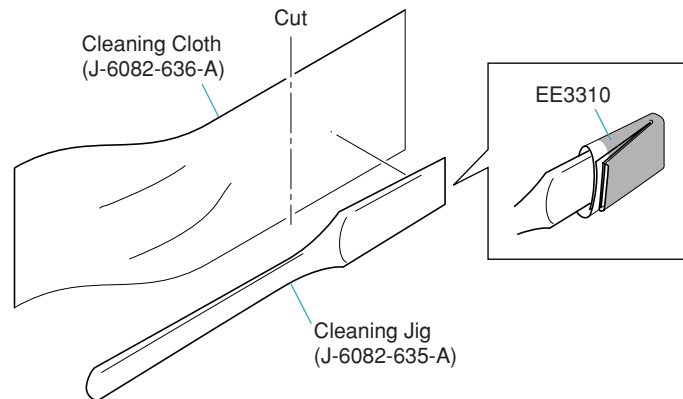
<Preparation>

Make it to Cleaning Mode of Power On/Set Up Menu by using the AC power supply.
(It comes to Mirror Up/Shutter Open)

Note: Use the AC power supply absolutely.

<Cleaning Method>

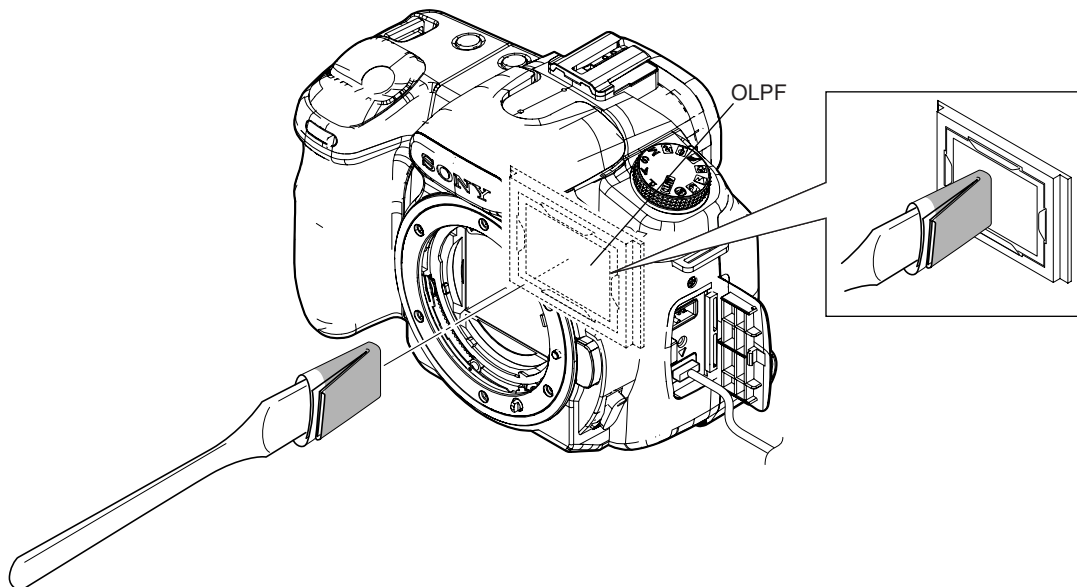
1. Soak a small amount of EE3310 (Liquid cleaner) after wrapping the cleaning cloth (J-6082-636-A) around the cleaning jig (J-6082-635-A).



2. Surface of OLPF is cleaned. (Note that there is no wipe irregularity)

3. Power off. (It comes to Shutter Close/Mirror Down)

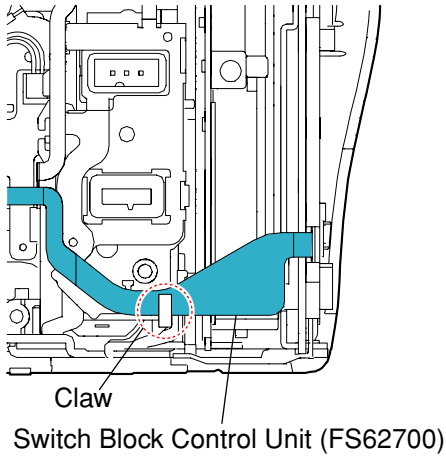
Note: The cleaning of the OLPF must use a specified jig. If the specified jig is not used, the low pass filter might be damaged.



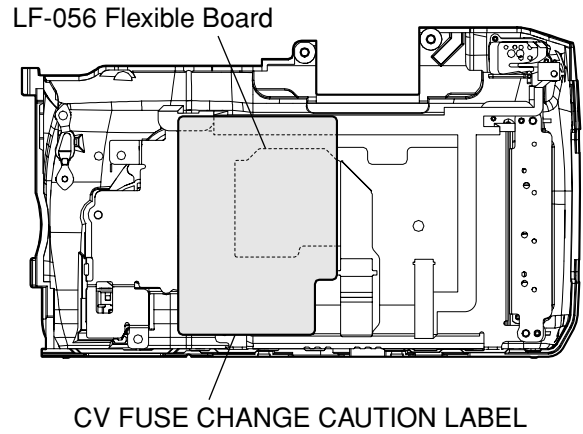
HELP

Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.

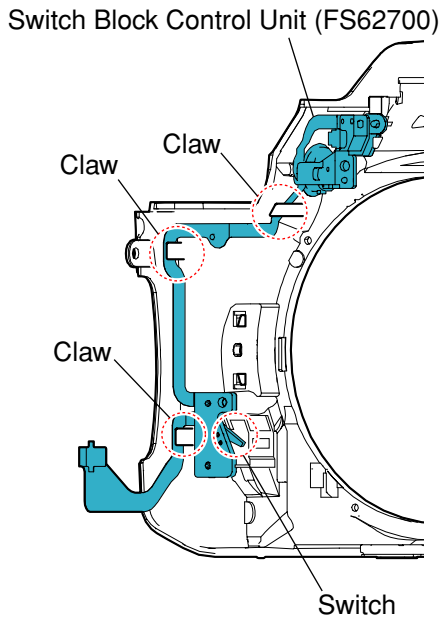
HELP 1: Switch Block Control Unit (FS62700)



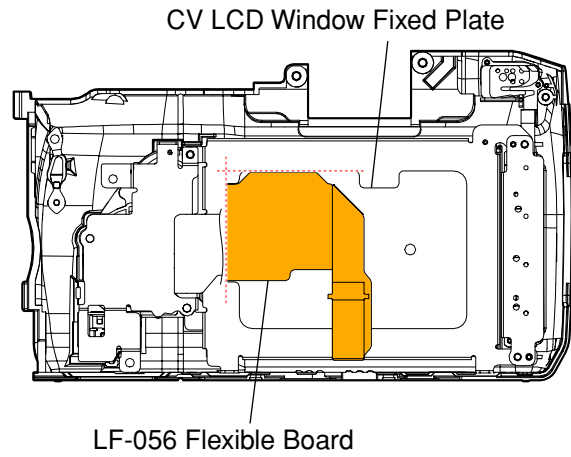
HELP 3: CV FUSE CHANGE CAUTION LABEL



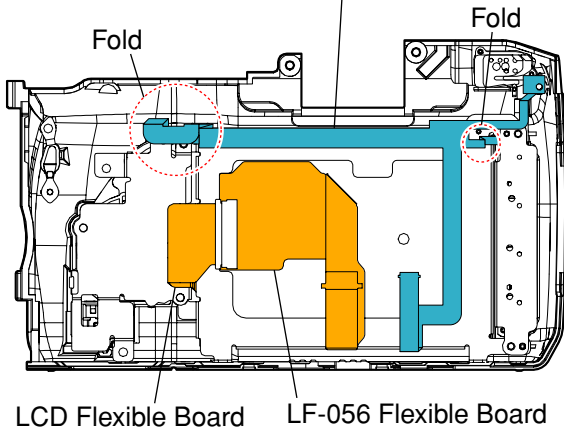
HELP 2: Switch Block Control Unit (FS62700)



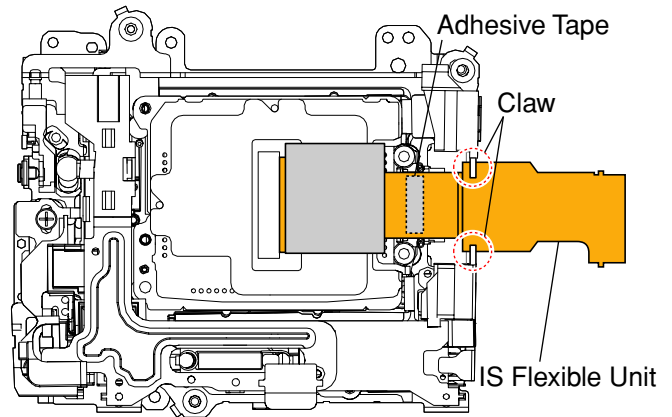
HELP 4: LF-056 Flexible Board



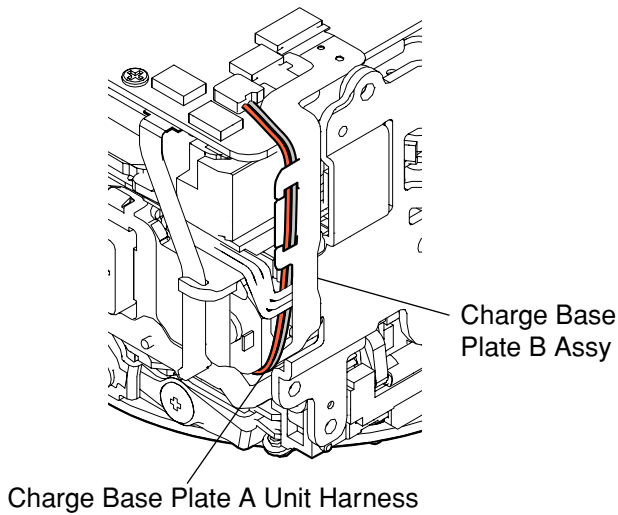
HELP 5: Switch Block Control Unit (RS62700)
Switch Block Control Unit (RS62700)



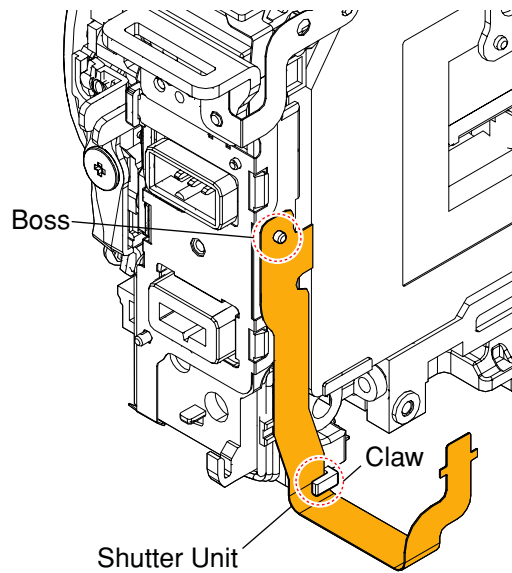
HELP 8: IS Flexible Unit



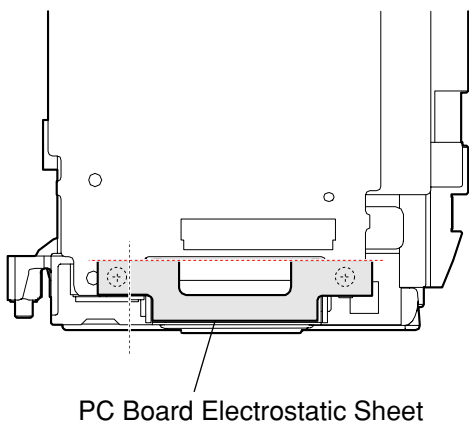
HELP 6: Charge Base Plate A Unit Harness



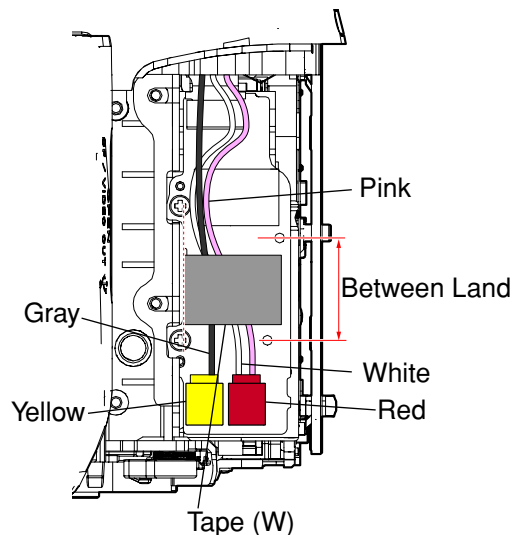
HELP 9: Shutter Unit



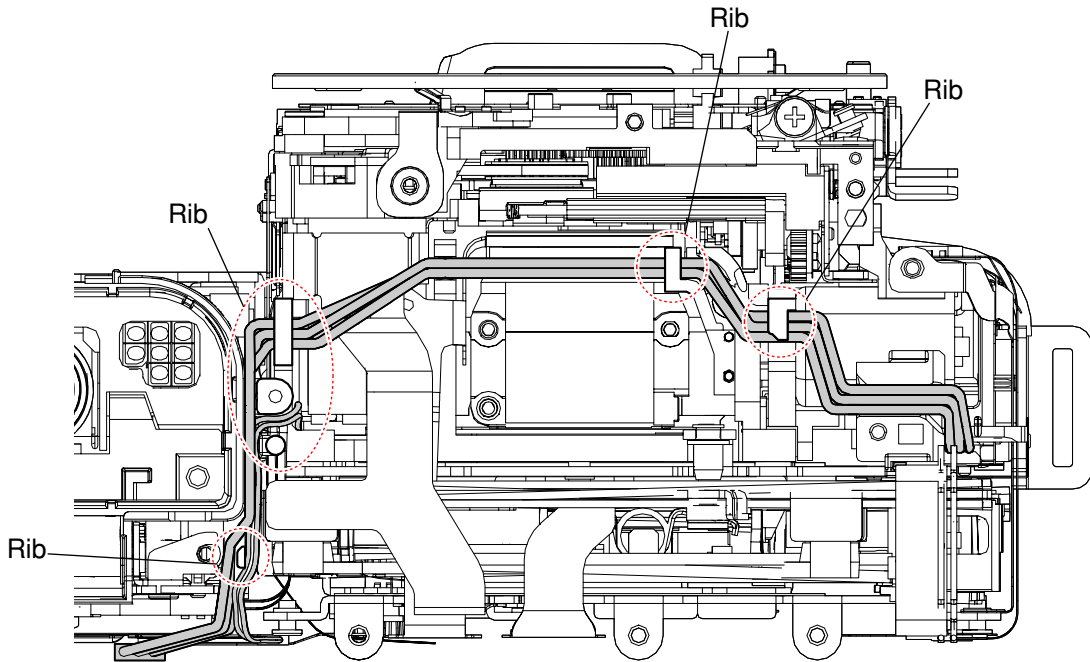
HELP 7: PC Board Electrostatic Sheet



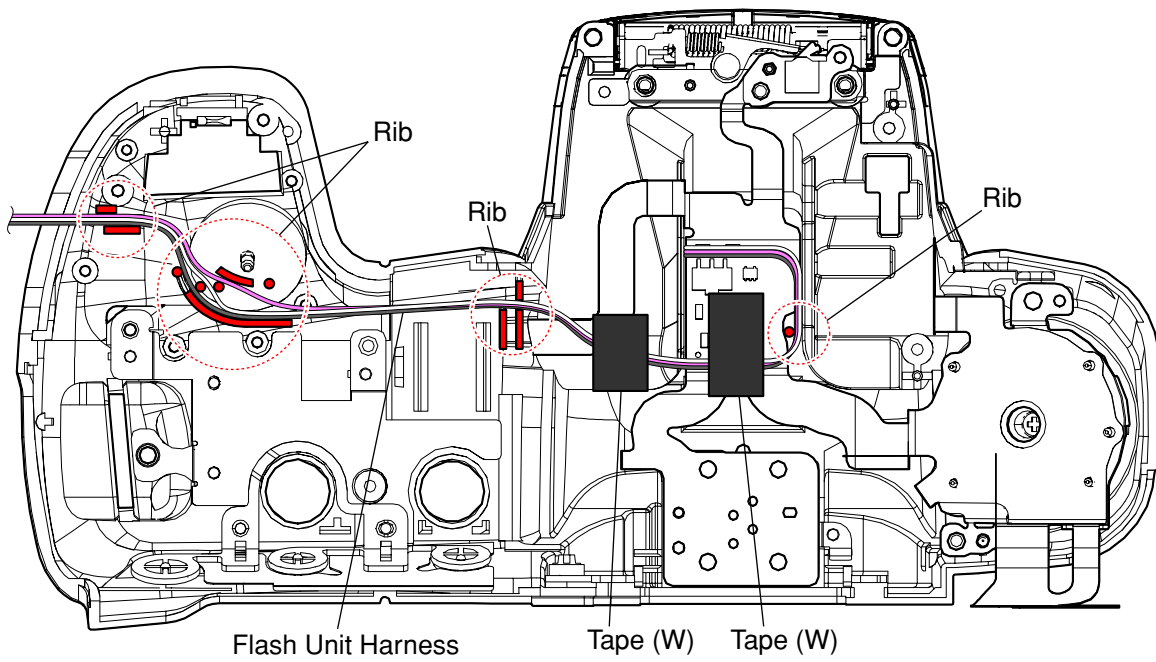
HELP 10: Flush Unit Harness/Tape (W)



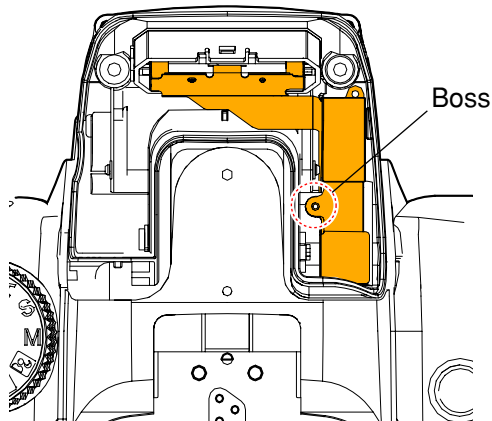
HELP 11: DC Jack Harness



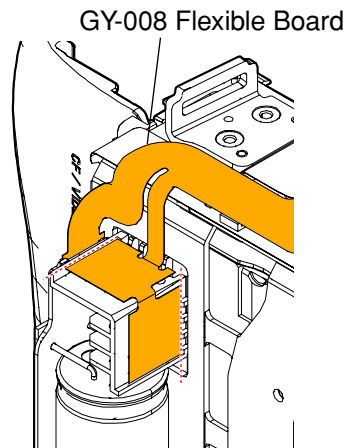
HELP 12: Flash Unit Harness/Tape (W)



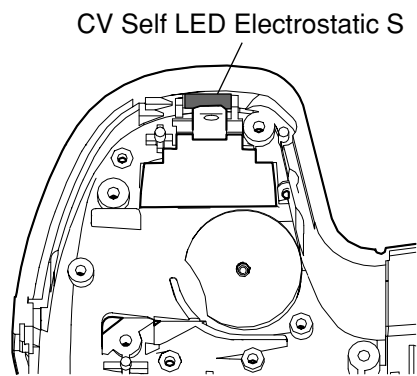
HELP 13: Flush Unit



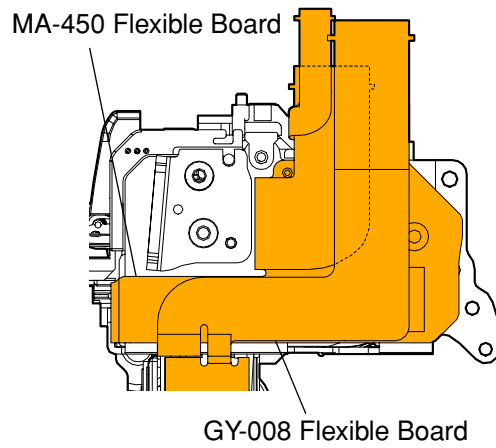
HELP 16: GY-008 Flexible Board



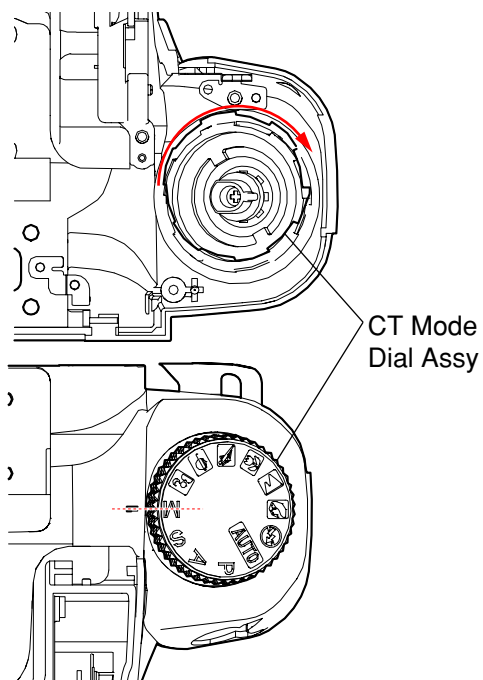
HELP 14: CV Self LED Electrostatic S



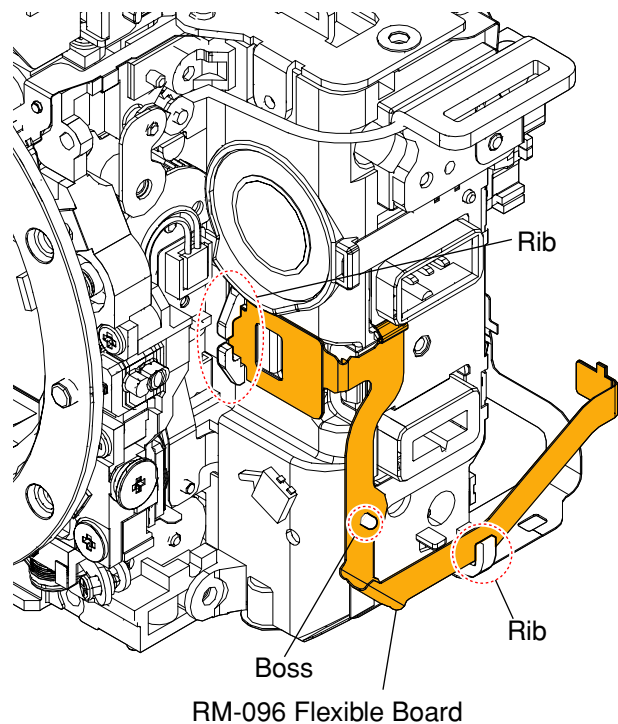
HELP 17: MA-450 Flexible Board



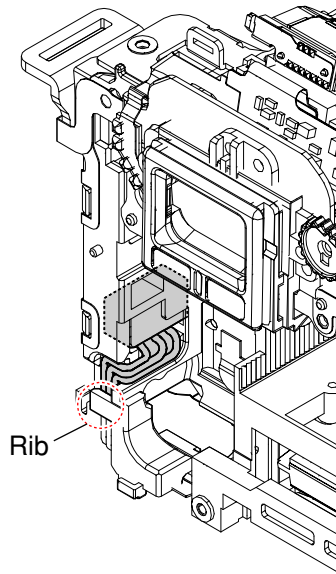
HELP 15: CT Mode Dial Assy



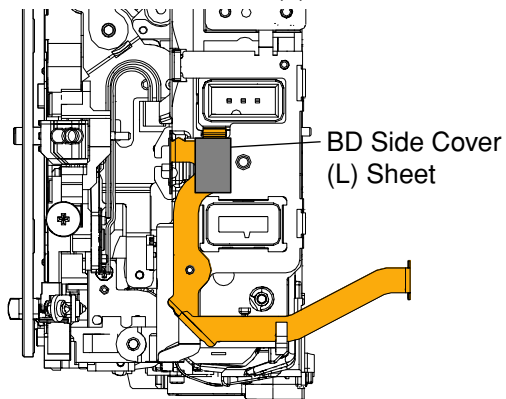
HELP 18: RM-096 Flexible Board



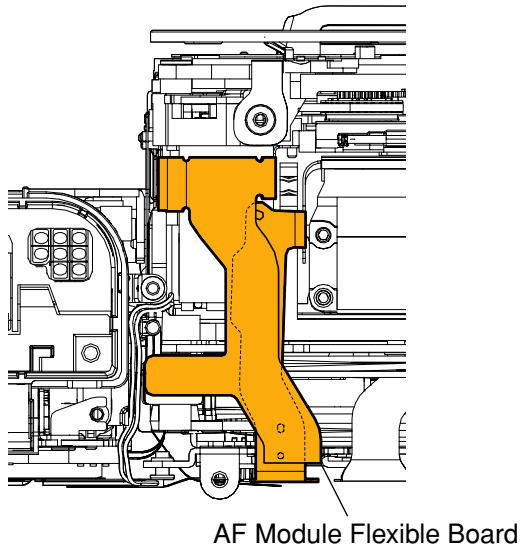
HELP 19: DC Jack Harness



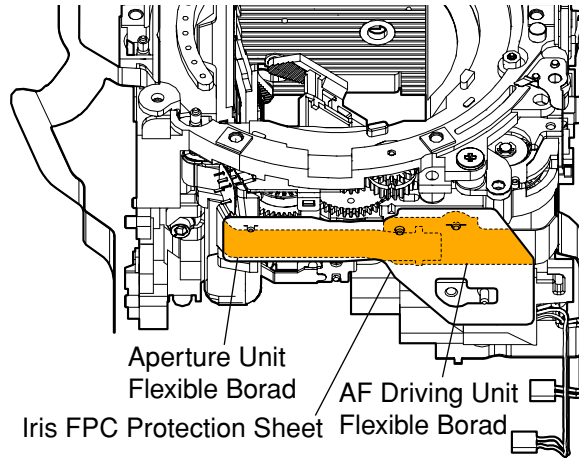
HELP 20: BD Side Cover (L) Sheet



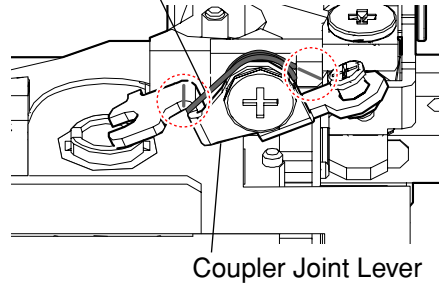
HELP 21: AF Module Flexible Board



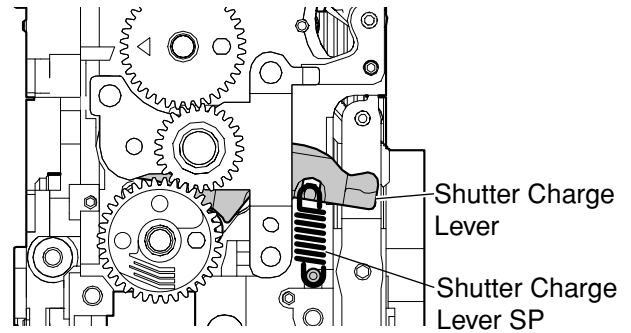
**HELP 22: Aperture Unit Flexible Borad
Iris FPC Protection Sheet**



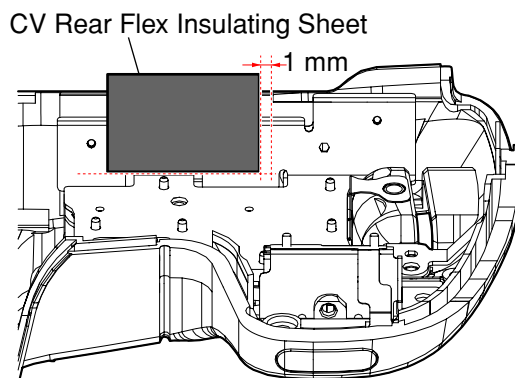
**HELP 23: Coupler Lever Tension SP
Coupler Lever Tension SP**



HELP 24: Shutter Charge Lever SP



HELP 25: CV Rear Flex Insulating Sheet



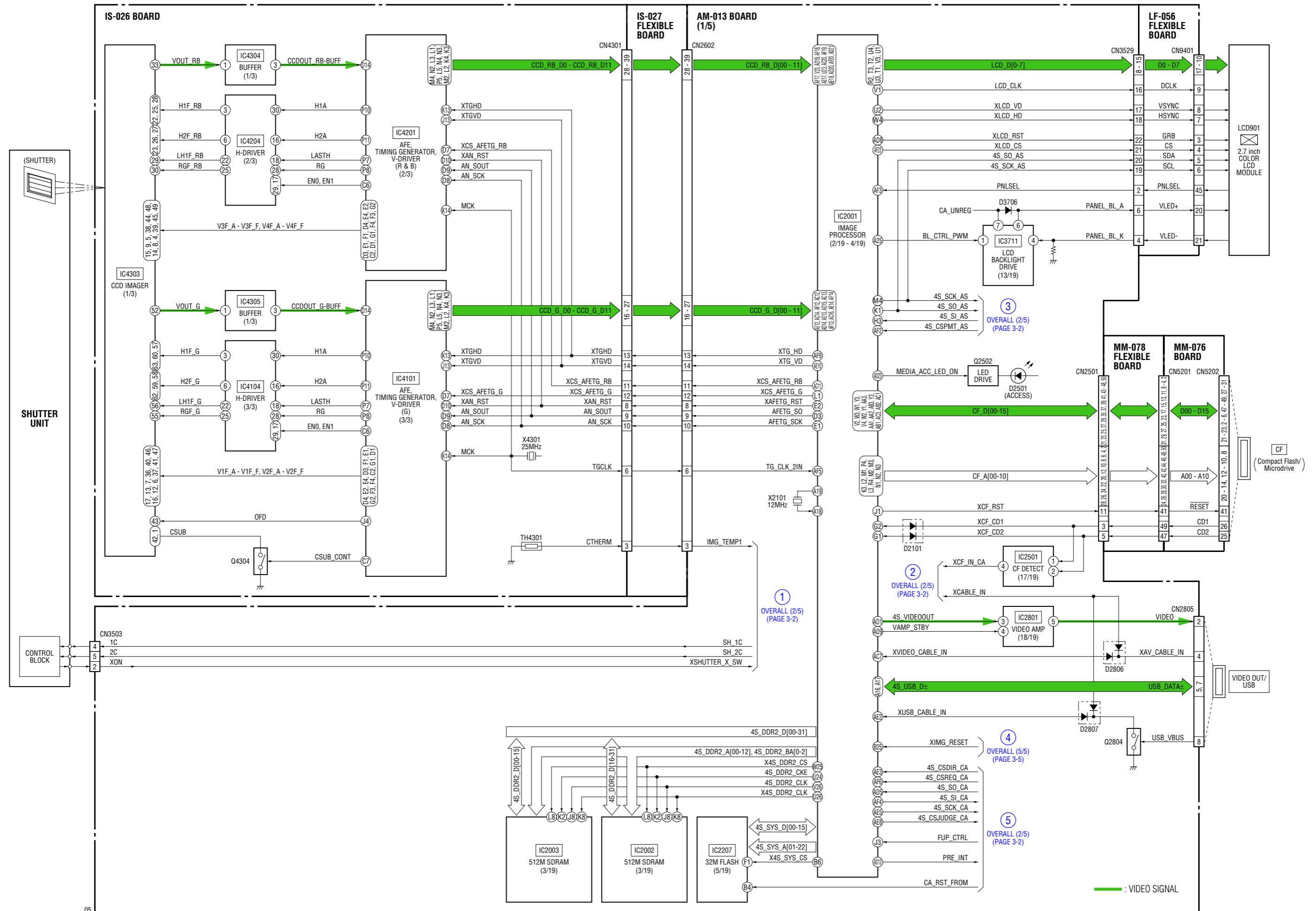
3. BLOCK DIAGRAMS

Link

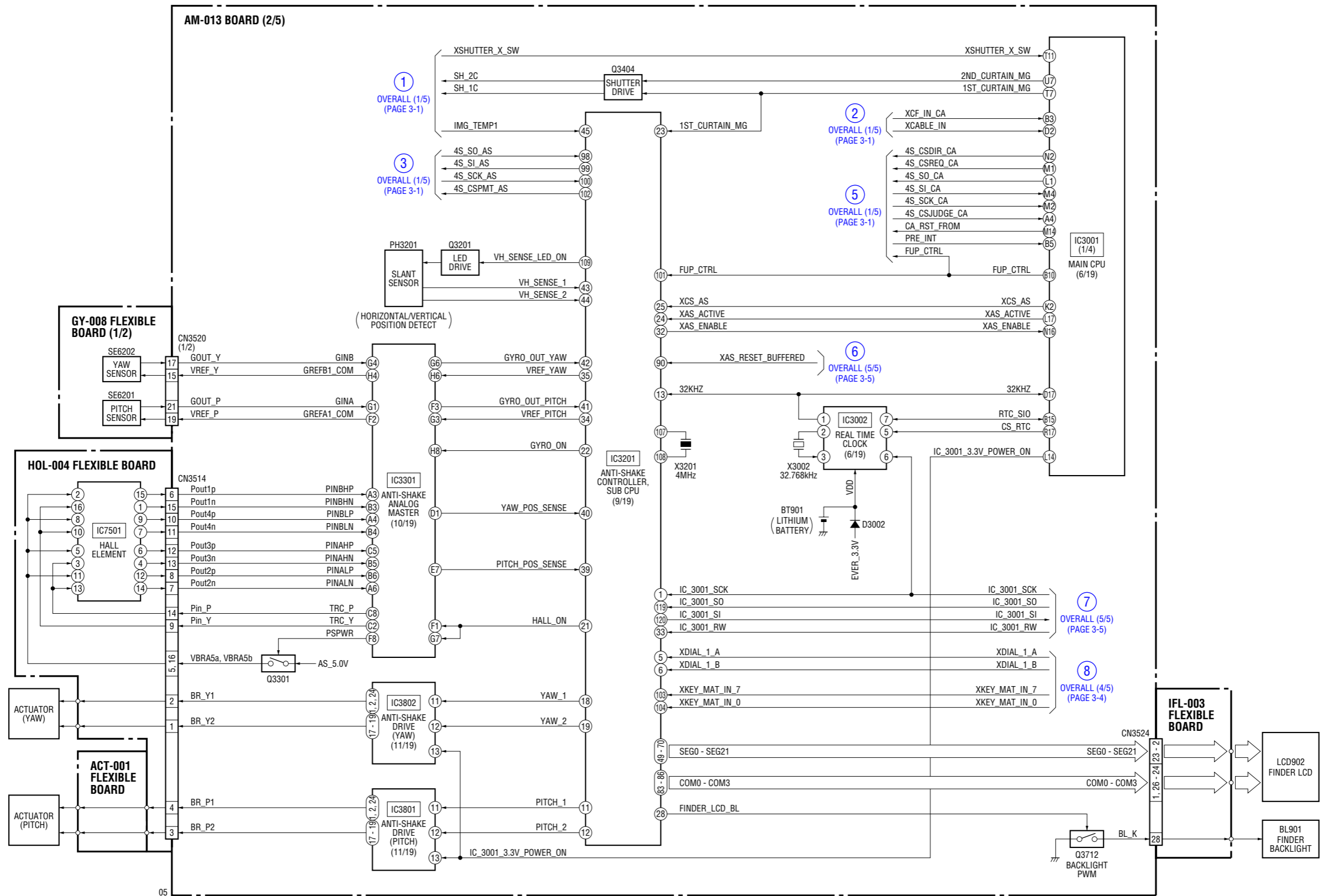
OVERALL BLOCK DIAGRAM (1/5)	POWER BLOCK DIAGRAM (1/5)
OVERALL BLOCK DIAGRAM (2/5)	POWER BLOCK DIAGRAM (2/5)
OVERALL BLOCK DIAGRAM (3/5)	POWER BLOCK DIAGRAM (3/5)
OVERALL BLOCK DIAGRAM (4/5)	POWER BLOCK DIAGRAM (4/5)
OVERALL BLOCK DIAGRAM (5/5)	POWER BLOCK DIAGRAM (5/5)

3. BLOCK DIAGRAMS

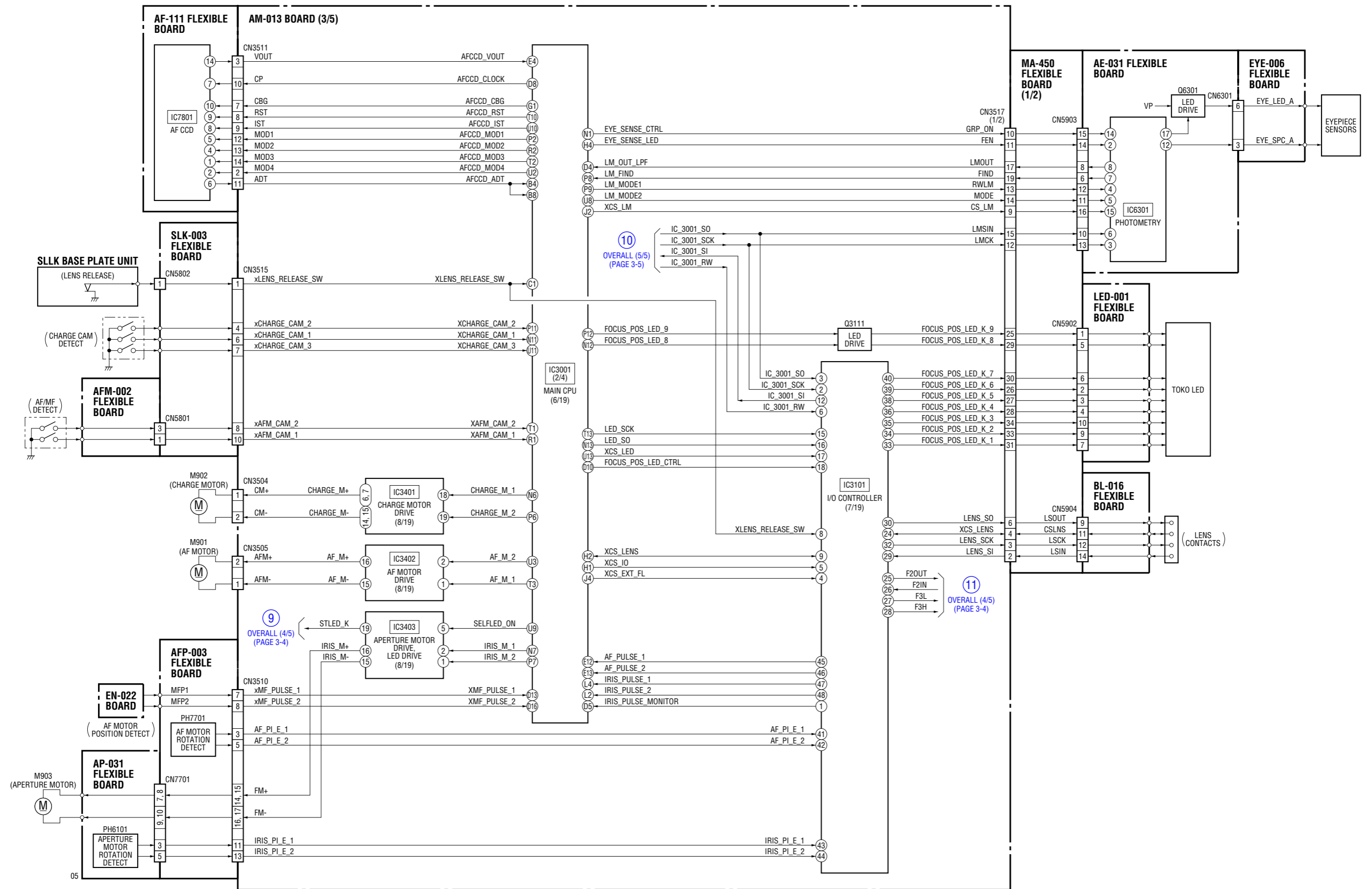
3-1. OVERALL BLOCK DIAGRAM (1/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



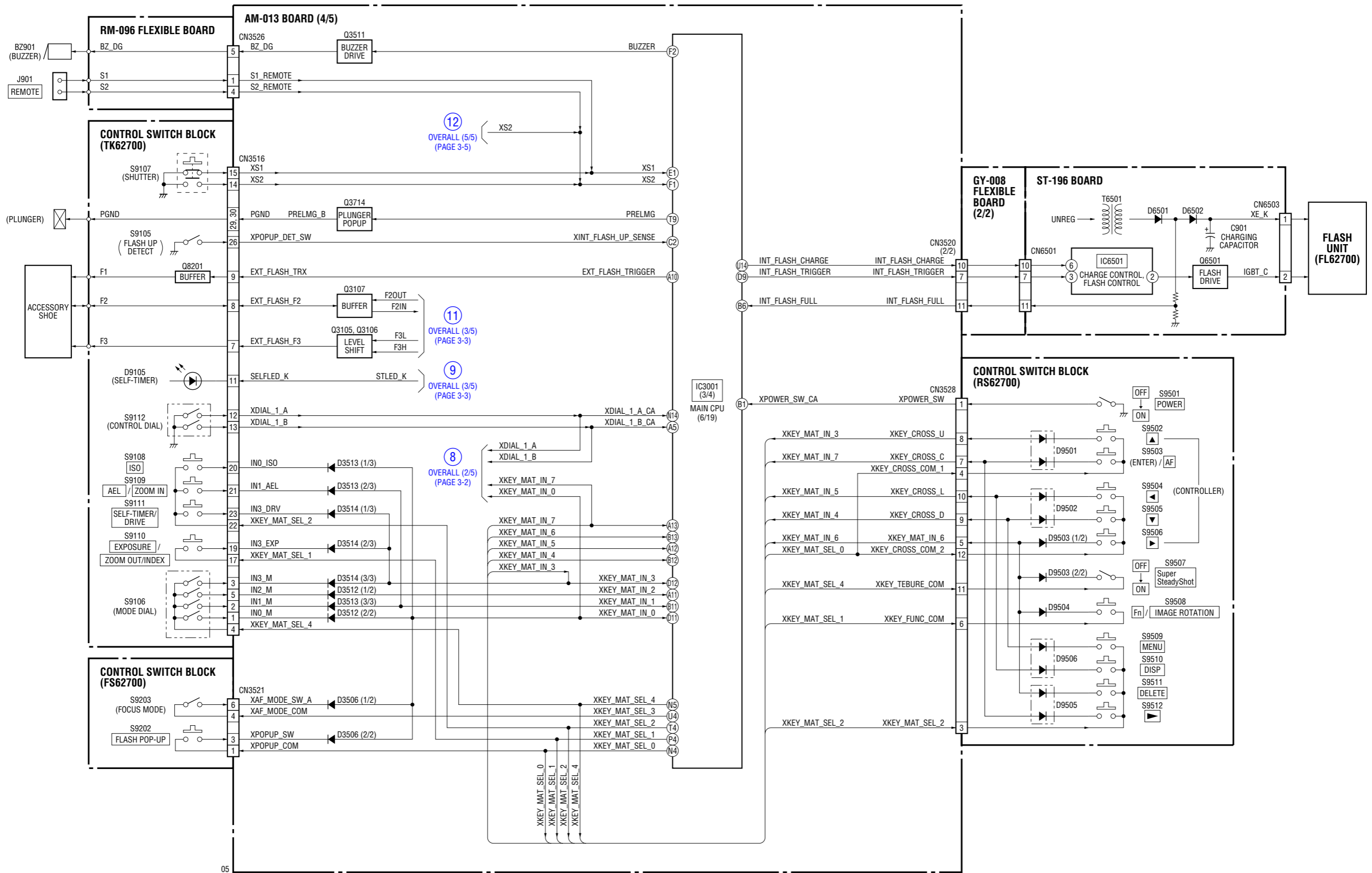
3-2. OVERALL BLOCK DIAGRAM (2/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



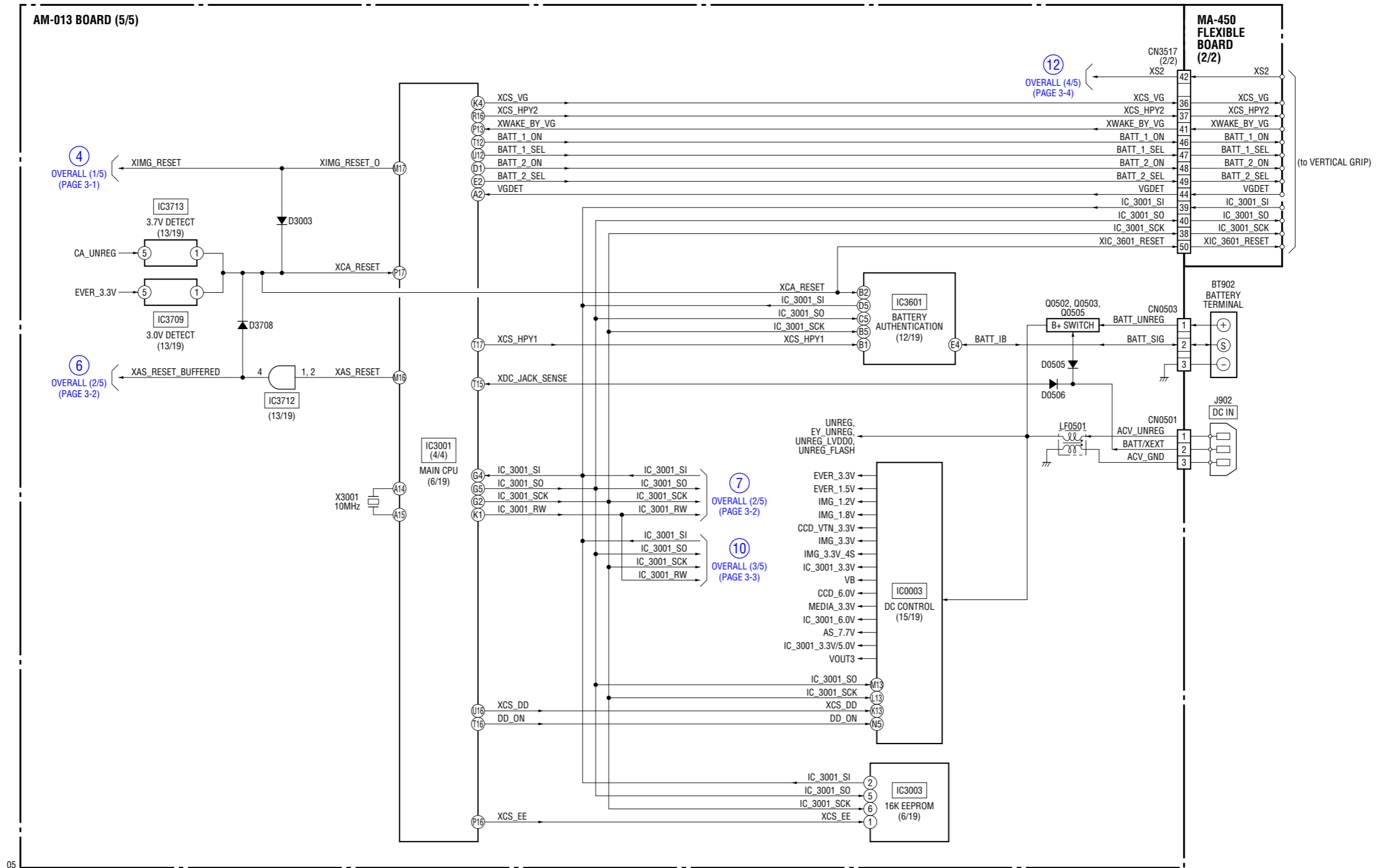
3-3. OVERALL BLOCK DIAGRAM (3/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



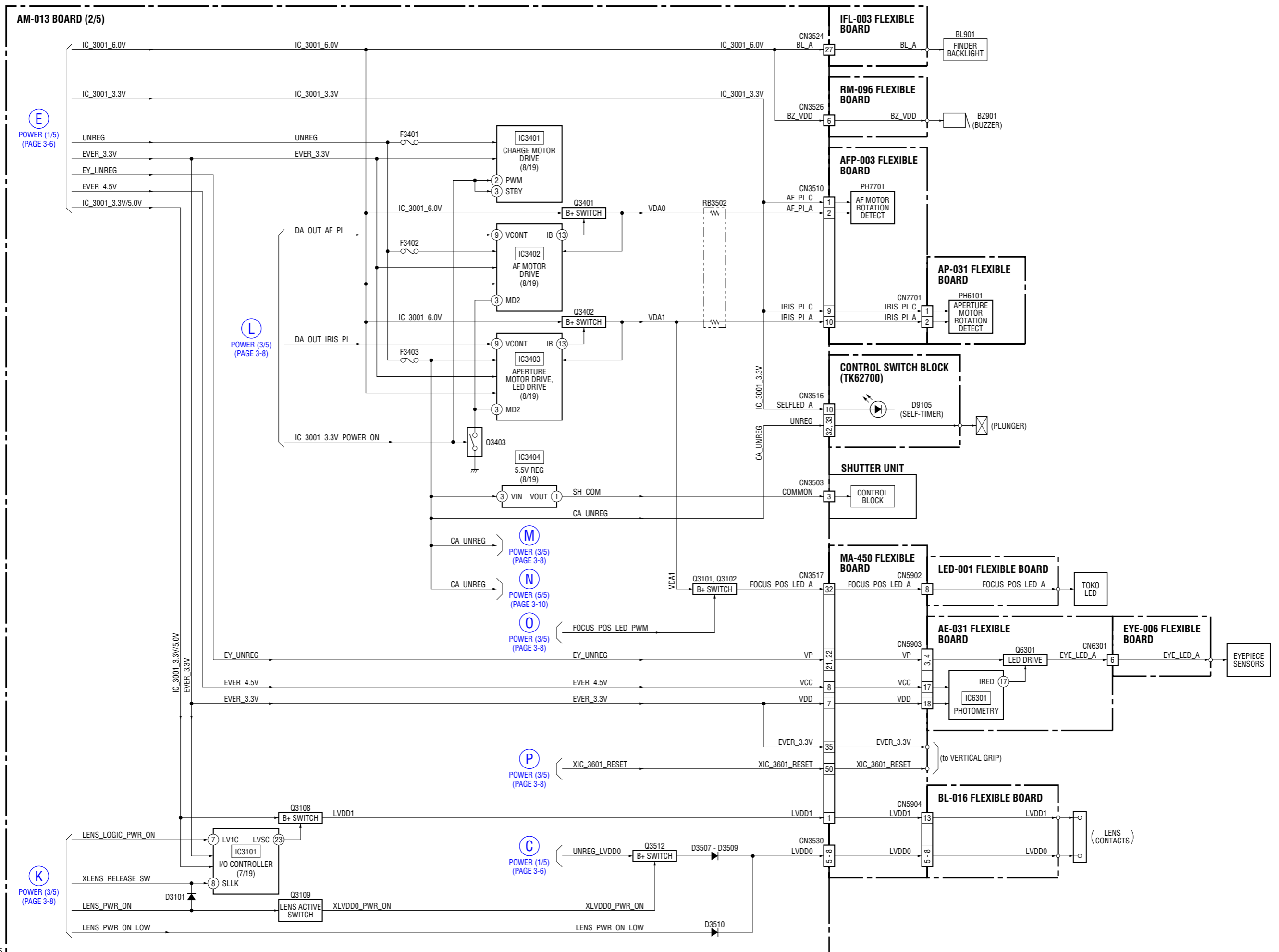
3-4. OVERALL BLOCK DIAGRAM (4/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



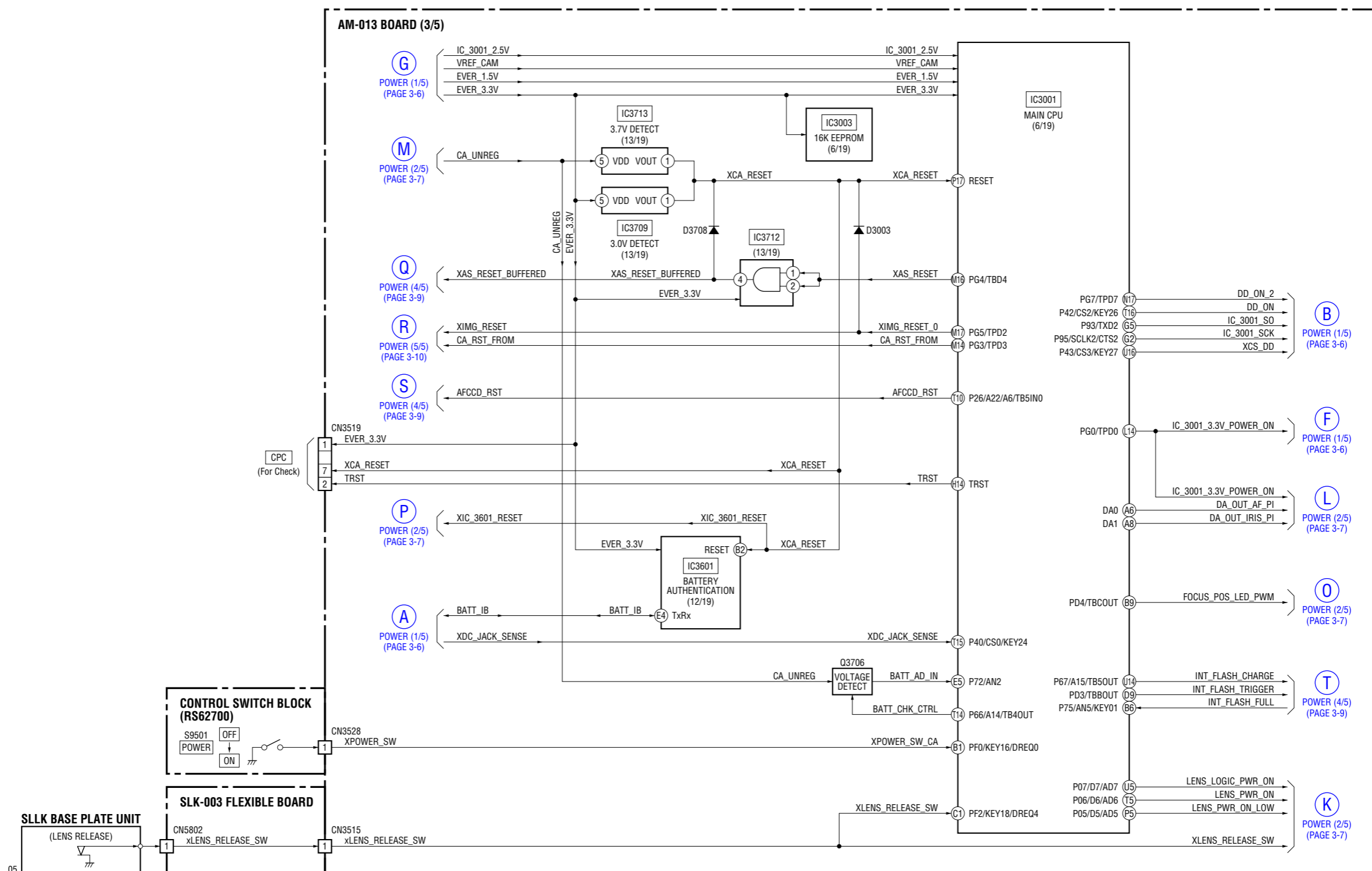
3-5. OVERALL BLOCK DIAGRAM (5/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



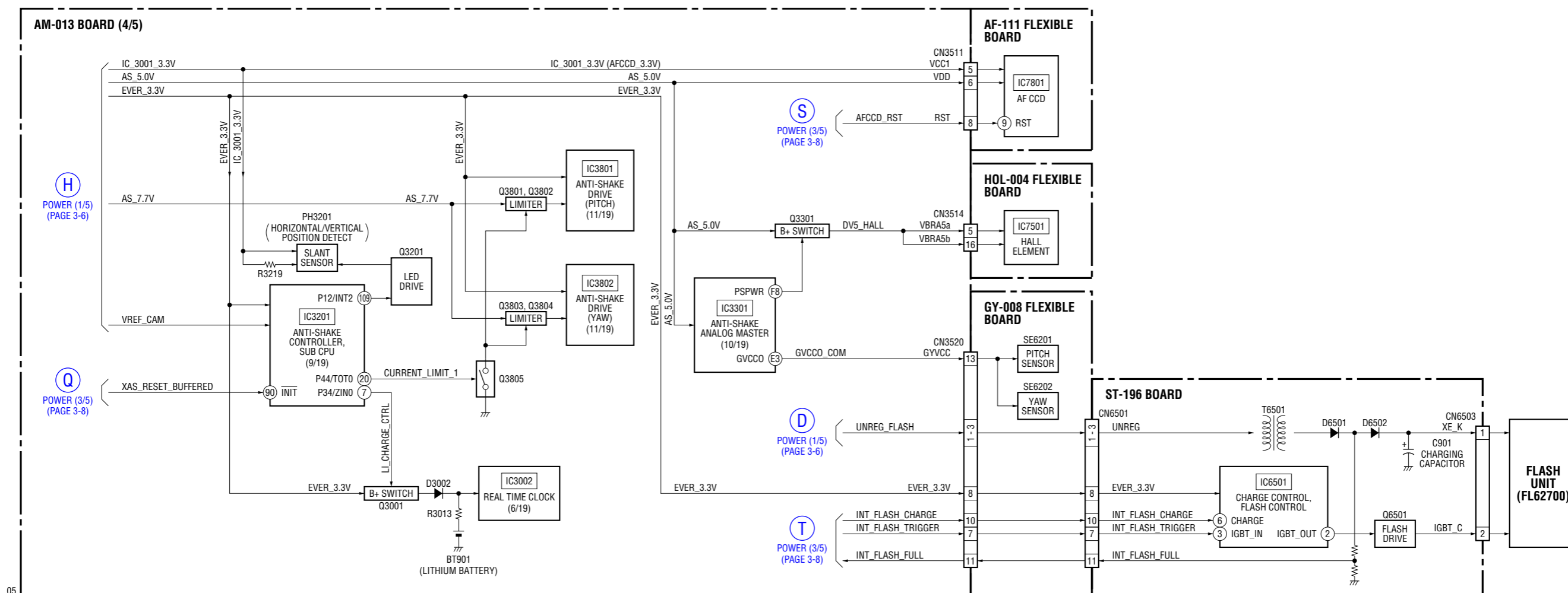
3-7. POWER BLOCK DIAGRAM (2/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



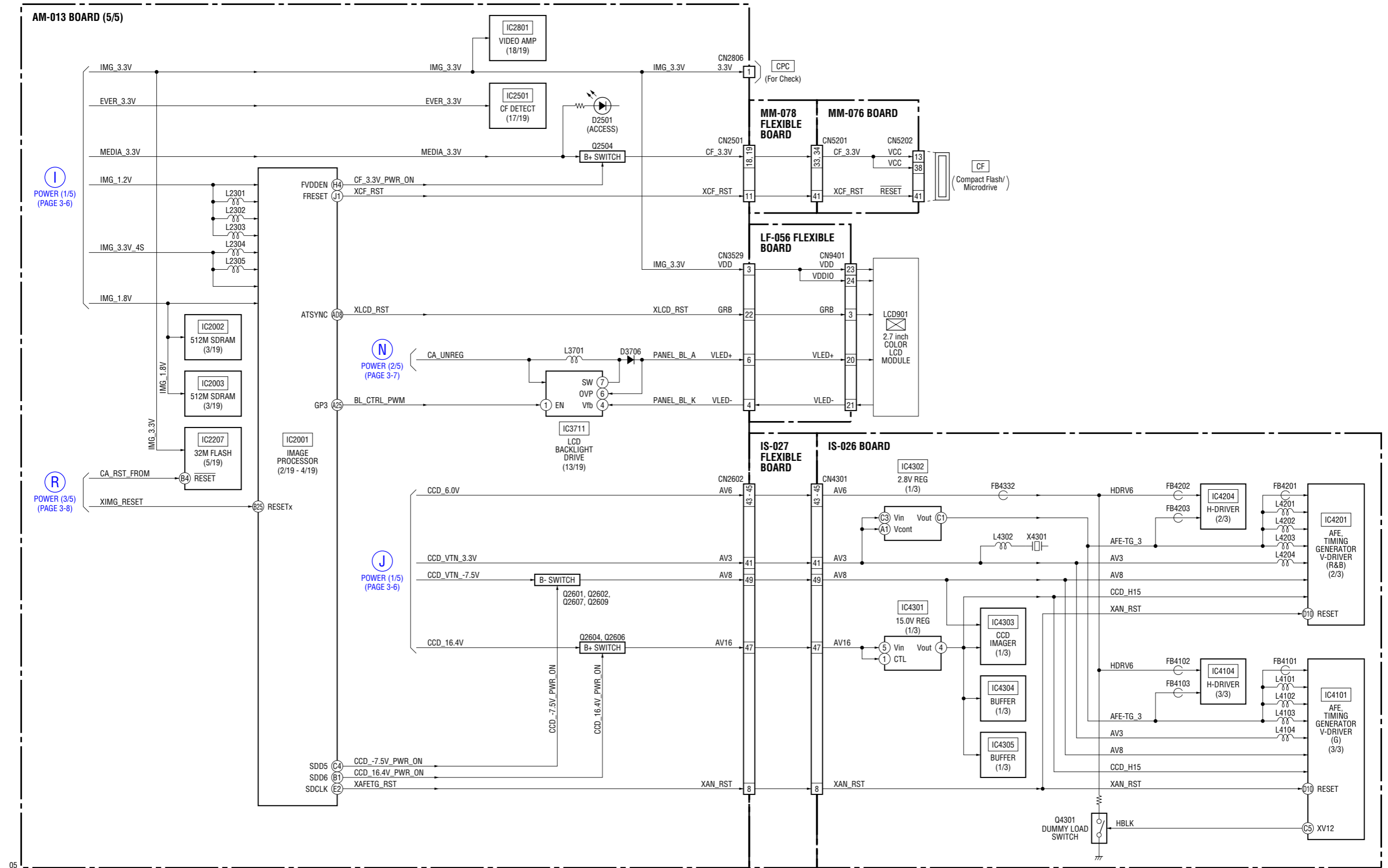
3-8. POWER BLOCK DIAGRAM (3/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



3-9. POWER BLOCK DIAGRAM (4/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

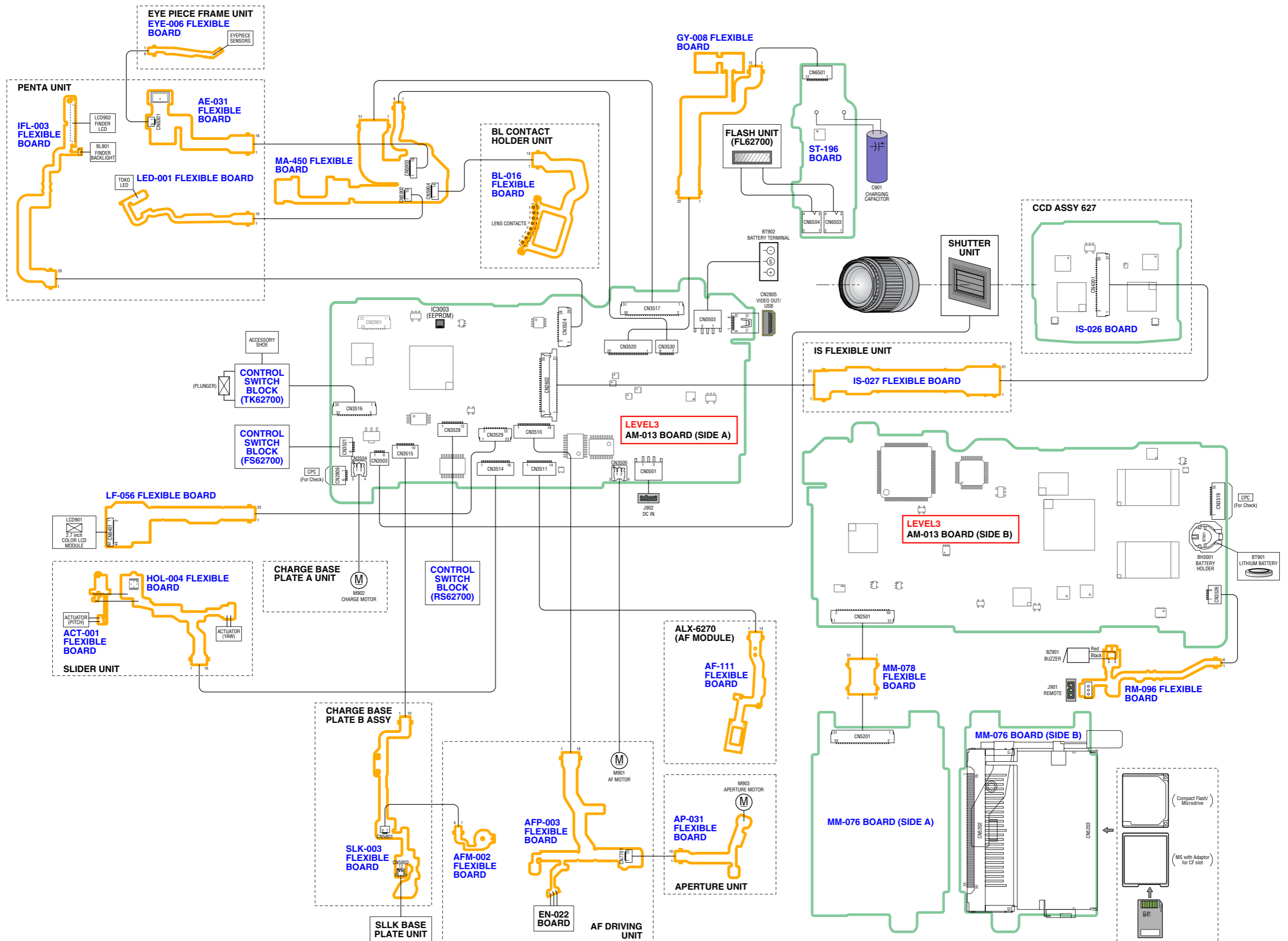


3-10. POWER BLOCK DIAGRAM (5/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM



4-2. SCHEMATIC DIAGRAMS

Link

• IS-026 BOARD (1/3) (CCD IMAGER)	• RM-096 FLEXIBLE BOARD (REMOTE JACK)
• IS-026 BOARD (2/3) (AFE, TIMING GENERATOR)	• BL-016 FLEXIBLE BOARD (LENS CONTACTS)
• IS-026 BOARD (3/3) (AFE, TIMING GENERATOR)	• MA-450 FLEXIBLE BOARD (CONNECTOR)
• LF-056 FLEXIBLE BOARD (LCD)	• IFL-003 FLEXIBLE BOARD (FINDER)
• MM-076 BOARD (CF SLOT)	• LED-001 FLEXIBLE BOARD (TOKO LED UNIT)
• AF-111 FLEXIBLE BOARD (AF CCD)	• EYE-006 FLEXIBLE BOARD (EYEPIECE)
• GY-008 FLEXIBLE BOARD (GYRO SENSOR)	• AE-031 FLEXIBLE BOARD (PHOTOMETRY)
• HOL-004 FLEXIBLE BOARD (HALL ELEMENT, ACTUATOR)	• ST-196 BOARD (FLASH DRIVE)
• ACT-001 FLEXIBLE BOARD (ACTUATOR)	• IS-027 FLEXIBLE BOARD (AM-IS CONNECTION)
• AFP-003 FLEXIBLE BOARD (AF SENSOR)	• MM-078 FLEXIBLE BOARD (AM-MM CONNECTION)
• AP-031 FLEXIBLE BOARD (APERTURE SENSOR)	• CONTROL SWITCH BLOCK (TK62700)
• AFM-002 FLEXIBLE BOARD (AF/MF SWITCH)	• CONTROL SWITCH BLOCK (FS62700)
• SLK-003 FLEXIBLE BOARD (CHARGE CAM, LENS RELEASE)	• CONTROL SWITCH BLOCK (RS62700)

• COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS (ENGLISH)








THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS

(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μF . 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. $\text{k}\Omega=1000 \Omega$, $\text{M}\Omega=1000 \text{k}\Omega$.
- Caution when replacing chip parts.
New parts must be attached after removal of chip.
Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

Example	C541	L452
	22U	10UH
	TA A	2520
Kinds of capacitor		External dimensions (mm)
	Case size	

- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination.
Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
XEDIT → EDIT PB/XREC → PB/REC
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B- Line
- : IN/OUT direction of (+,-) B LINE.
- : adjustment for repair.

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.

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

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

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

(JAPANESE)

回路図共通ノート

(他に必要なノートは各ブロックに記載してあります)

【回路図ノート】

- ・ケミコン、タンタルを除くコンデンサで、耐圧50V以下のものはその耐圧を省略。単位はすべて μF (pはpF)。
- ・チップ抵抗で指示のないものは、 $1/10\text{W}$ 以下。

$k\Omega=1000\Omega$, $M\Omega=1000k\Omega$








- ・チップ部品交換時の注意

取り外した部品は再使用せず、未使用の部品をご使用ください。

タンタルコンデンサのマイナス側は熱に弱いため注意してください。

- ・チップ部品には下記のように表示したものがああります。

例	C 541	L 452
	22U	10UH
	TA A	2520
	↑ ↑	↑
	種類 ケースサイズ	外形寸法 (mm)

- ・抵抗、コンデンサ、ICなど定数にXXがあるものは、使用していない事を示しています。このため、使用していない回路が記載されている事があります。
- ・★印のある部品は、機種などにより異なりますので機能別マウント一覧表を参照してください。
- ・可変抵抗と半固定抵抗で、B特性の表示を省略。
- ・信号名表記について、下記のような場合があります。
XEDIT → EDIT PB/XREC → PB/REC
- ・ は不燃性抵抗。
- ・ はヒューズ抵抗。
- ・ はパネル表示名称。
- ・ はB+ライン。
- ・ はB-ライン。
- ・ はBライン (+, -) の入出力方向を示す。
- ・ は調整名称。

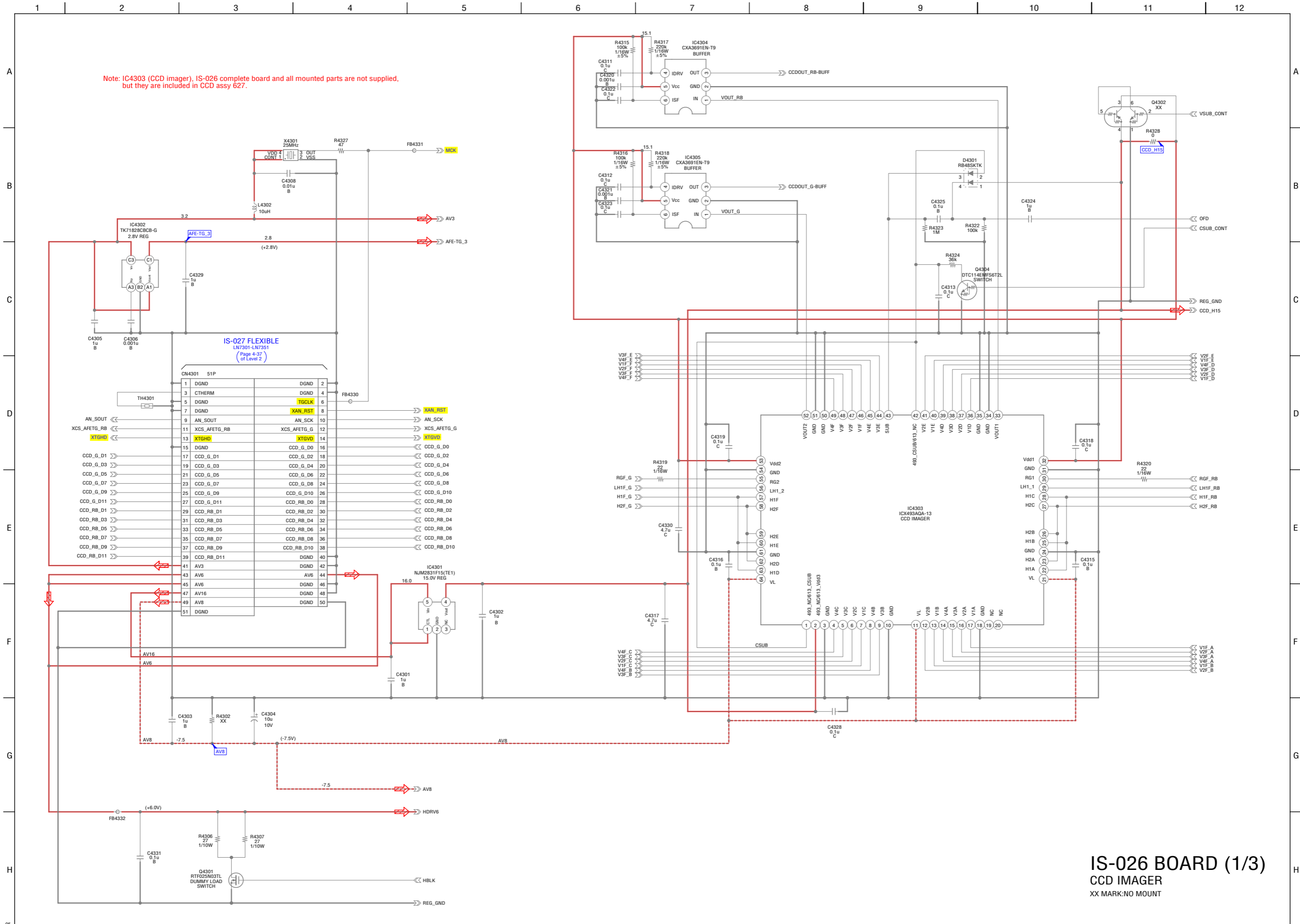
イメージ交換時の注意

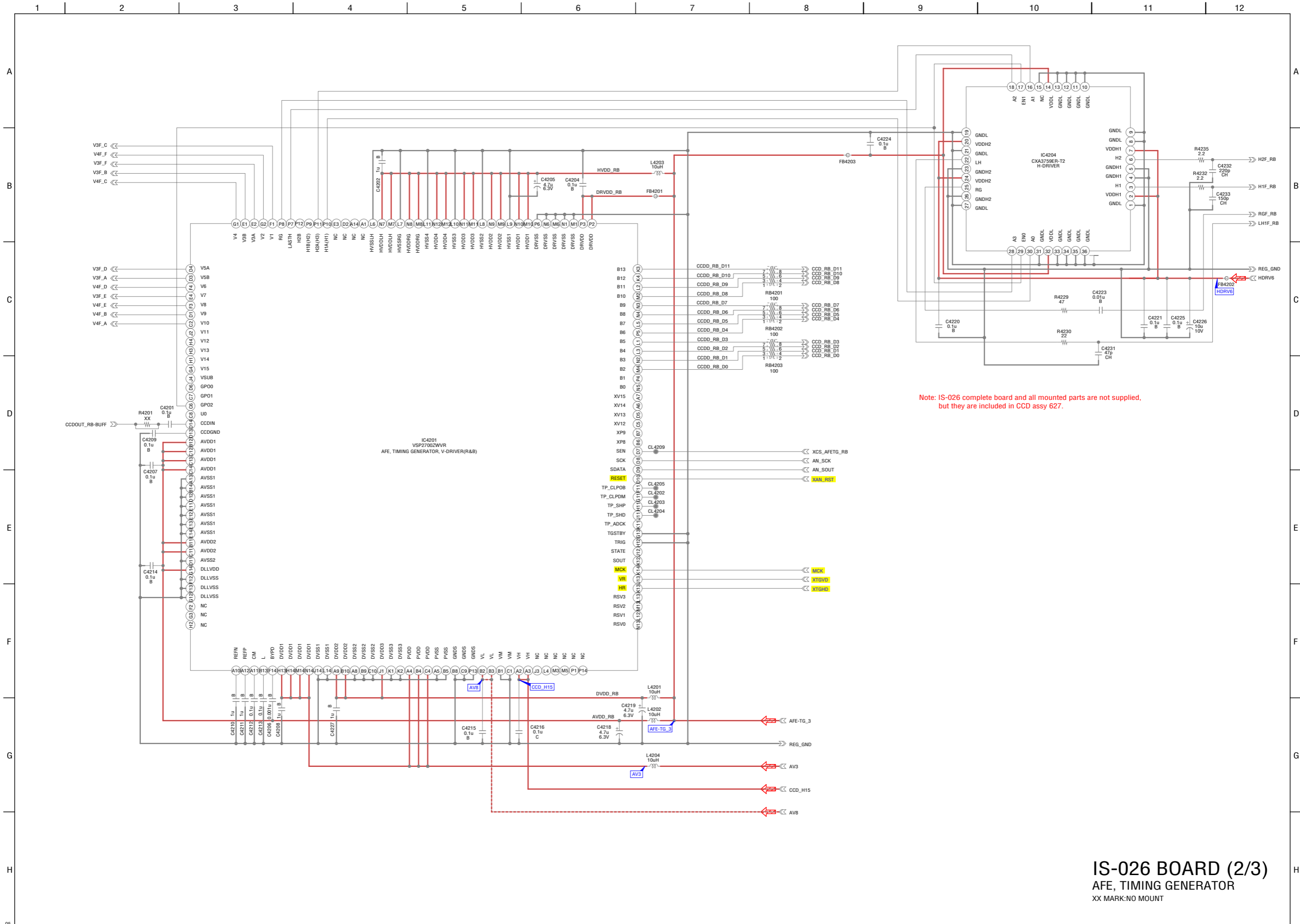
- ・イメージを交換した場合は、カメラ部の全調整を行ってください。
- ・イメージは構造上、静電気により破壊される恐れがあるため、MOS ICと同様に注意して取り扱ってください。
また、受光部にはゴミの付着、および強い光がはいることのないように注意してください。

△印の部品、または△印付き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下さい。

お願い

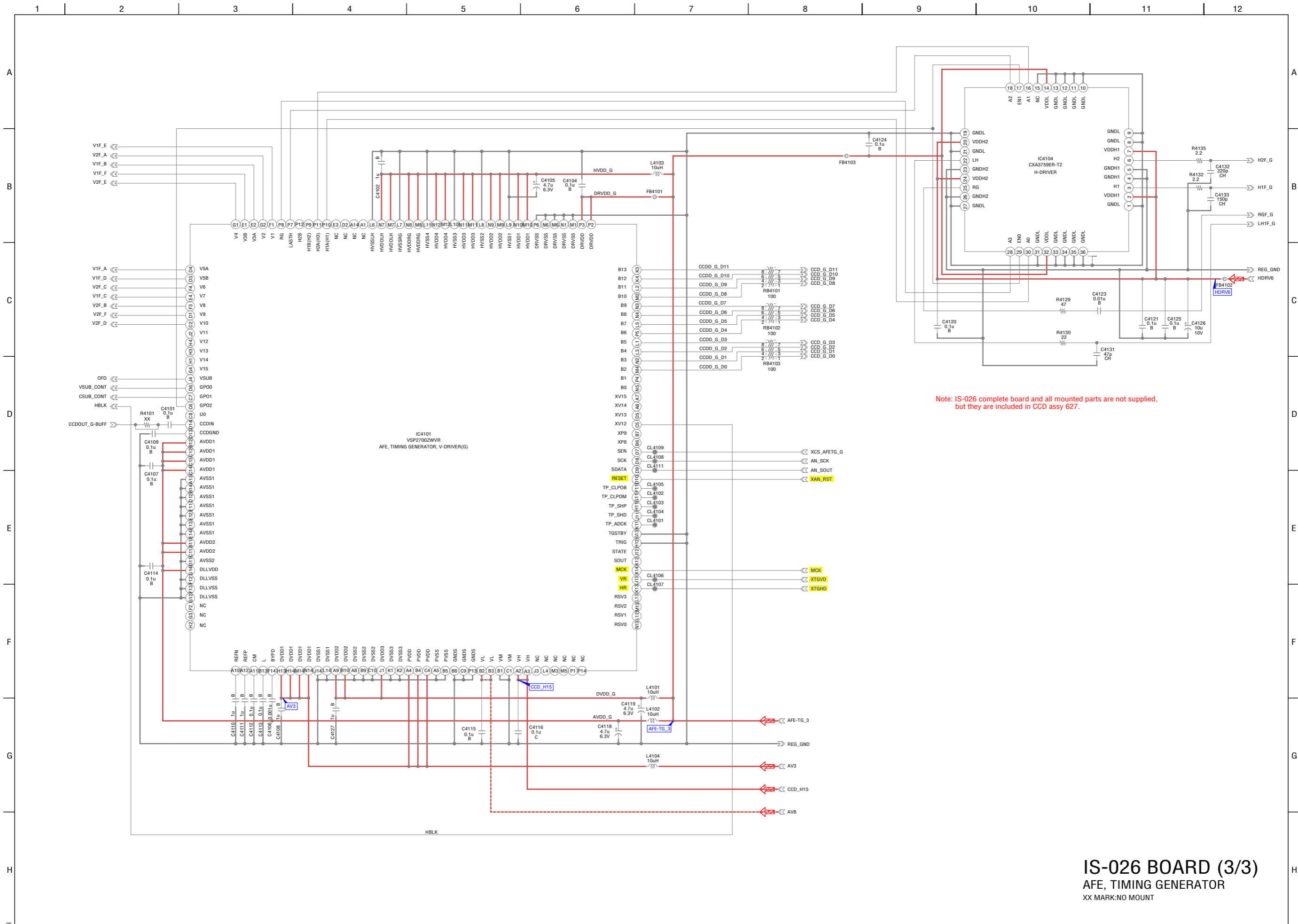
図面番号で部品を指定するときは基板名又はブロックを併せて指定して下さい。





Note: IS-026 complete board and all mounted parts are not supplied, but they are included in CCD assy 627.

IS-026 BOARD (2/3)
AFE, TIMING GENERATOR
XX MARK:NO MOUNT



IS-026 BOARD (3/3)
 AFE, TIMING GENERATOR
 XX MARK:NO MOUNT

Schematic diagrams of the AM-013 board is not shown.
Pages from 4-7 to 4-25 are not shown.

1 2 3 4 5 6 7 8 9 10 11 12

A

B

C

D

E

F

G

H

A

B

C

D

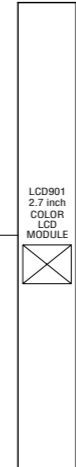
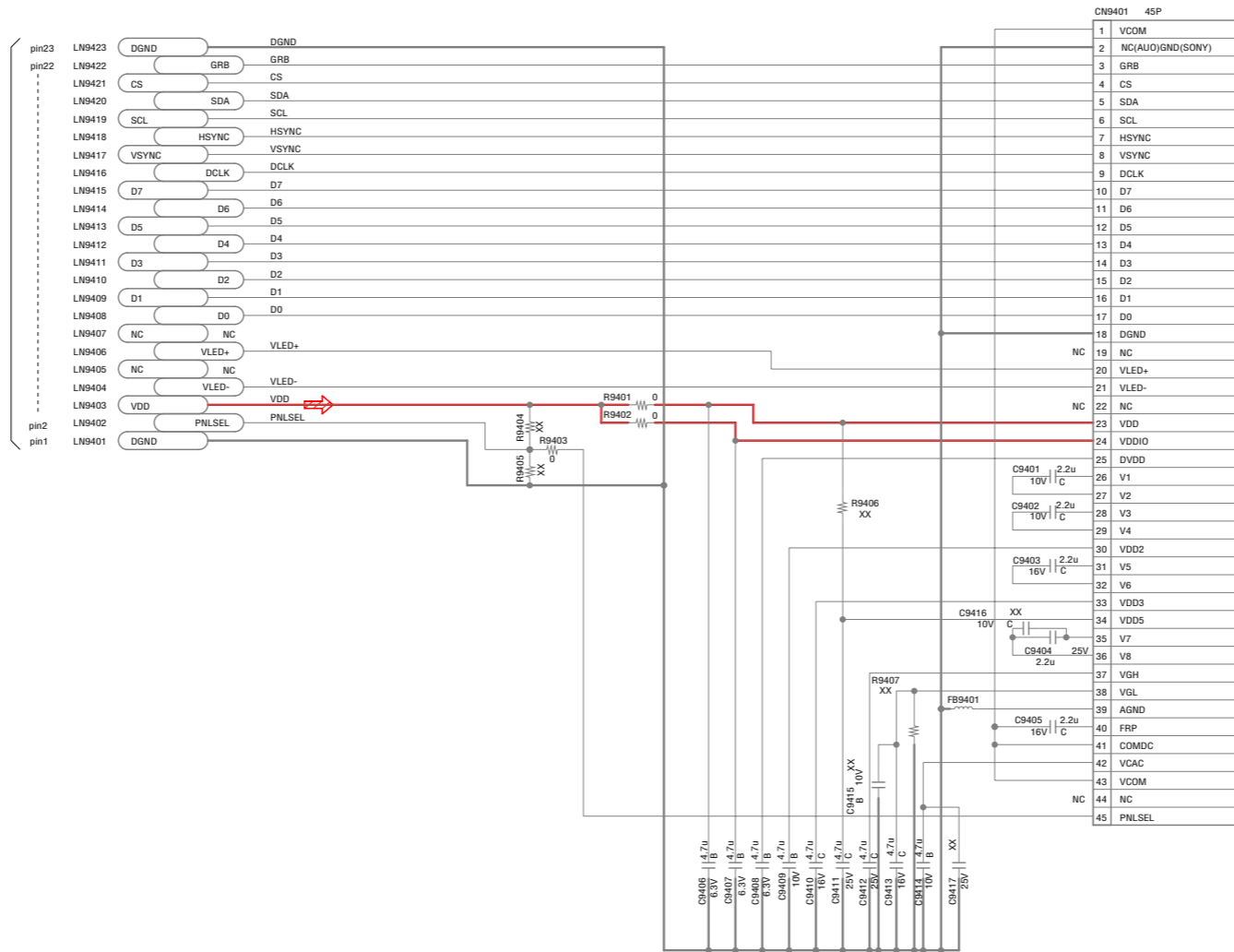
E

F

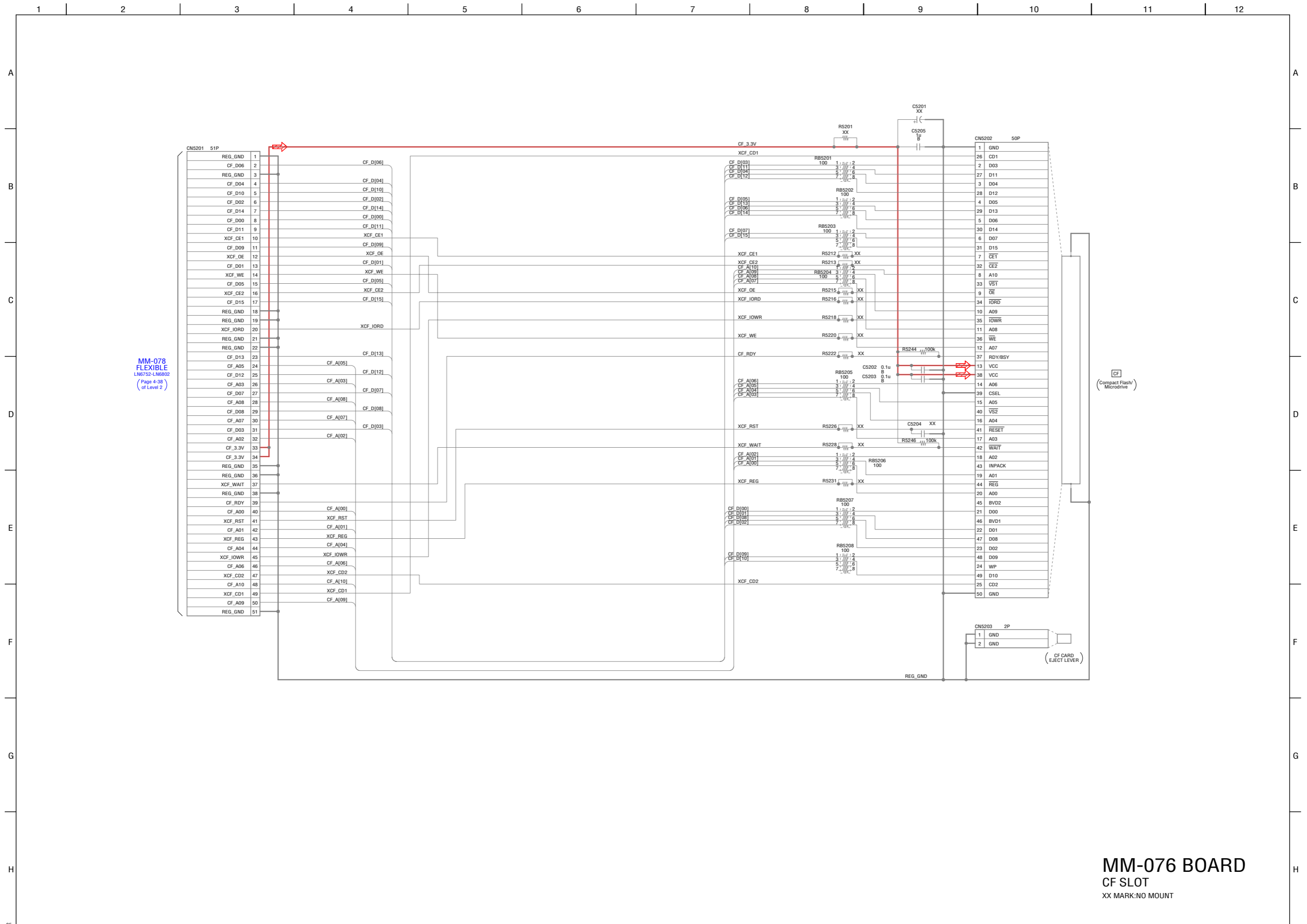
G

H

AM-013
(19/19)
CHK3529
(Page 4-25
of Level 3)



LF-056 FLEXIBLE BOARD
LCD
XX MARK:NO MOUNT



MM-078
FLEXIBLE
LNR752-LNR802
(Page 4-38
of Level 2)

CF
(Compact Flash
Microdrive)

CF CARD
EJECT LEVER

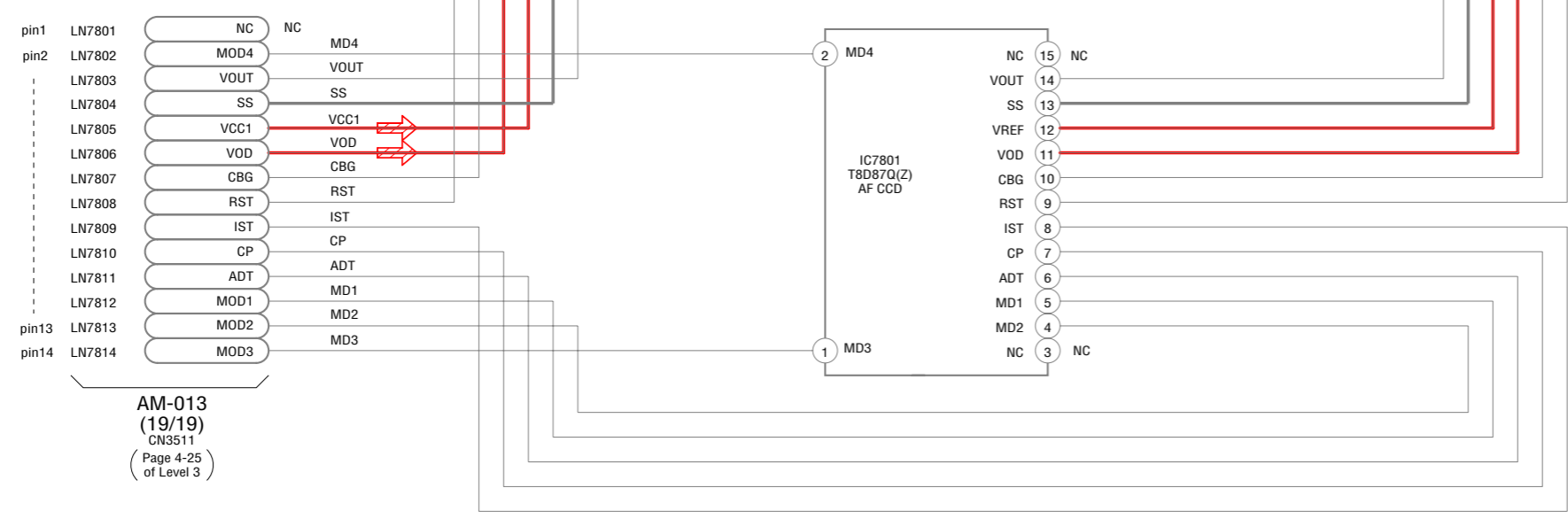
MM-076 BOARD
CF SLOT
XX MARK:NO MOUNT

1 2 3 4 5 6 7 8

A
B
C
D
E
F

A
B
C
D
E
F

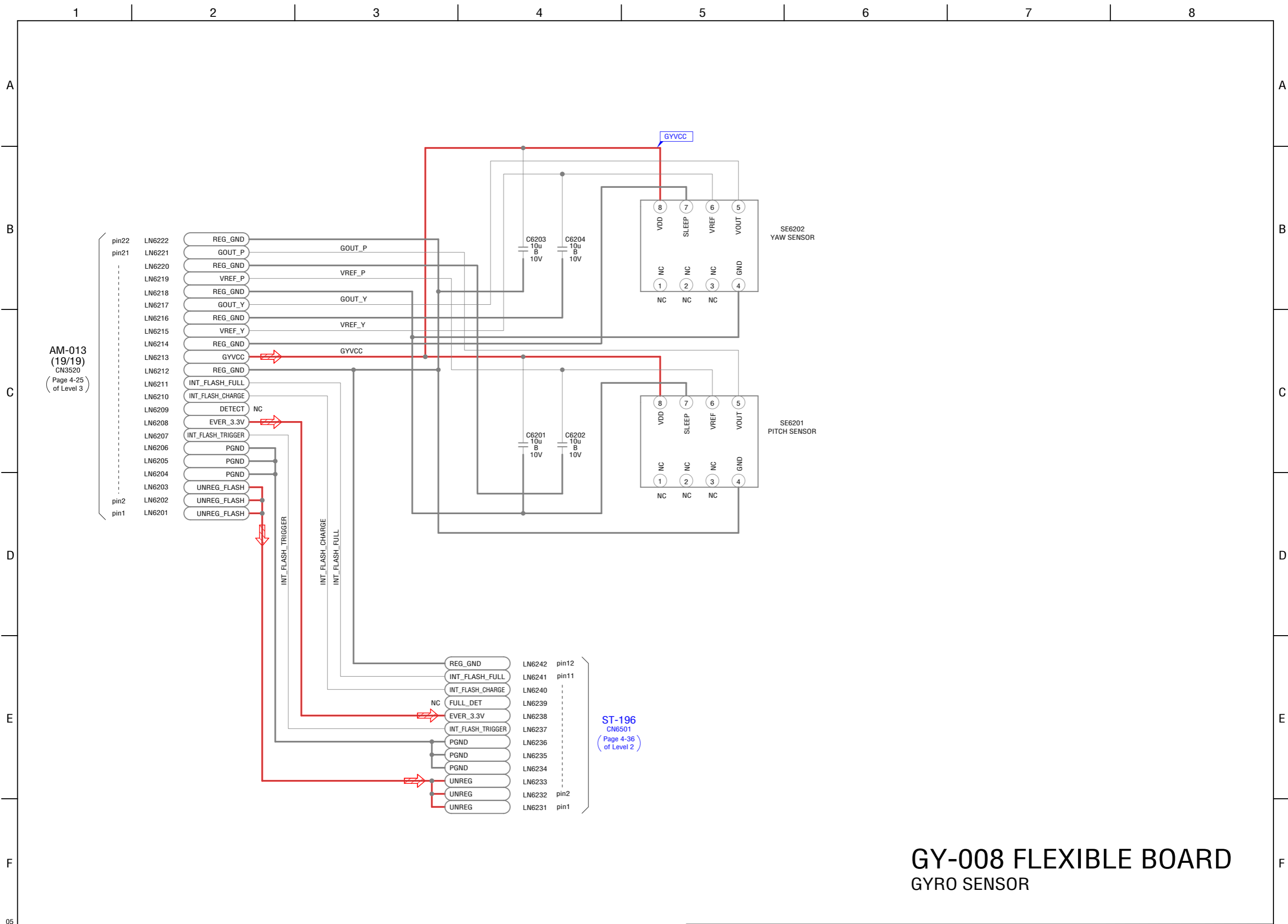
Note: IC7801 and AF-111 flexible complete board are not supplied, but they are included in ALX-6270 (AF module).



AF-111 FLEXIBLE BOARD

AF CCD

(AE-111 flexible board is replaced as ALX-6270 (AF module), so that PRINTED WIRING BOARD is omitted.)

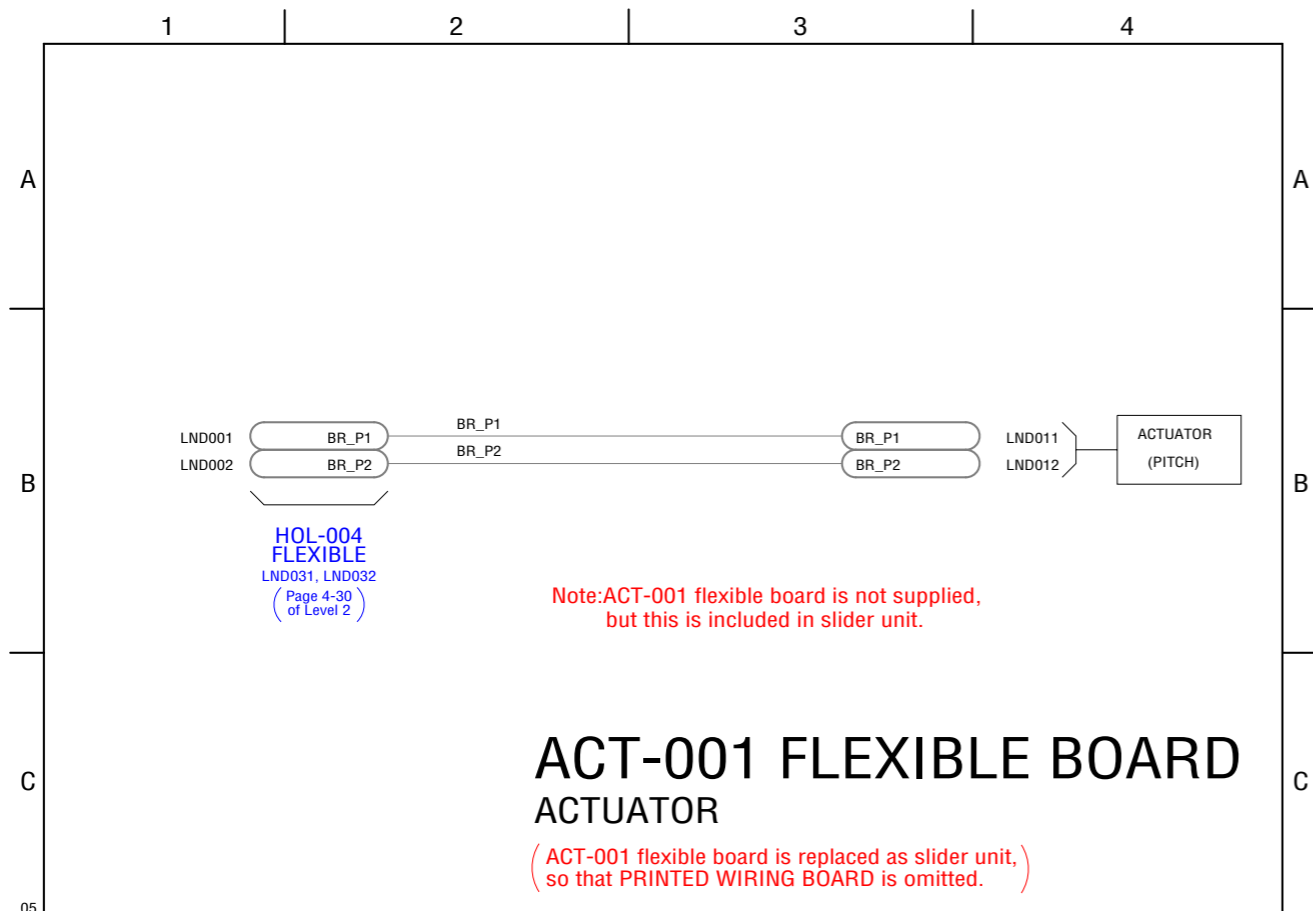
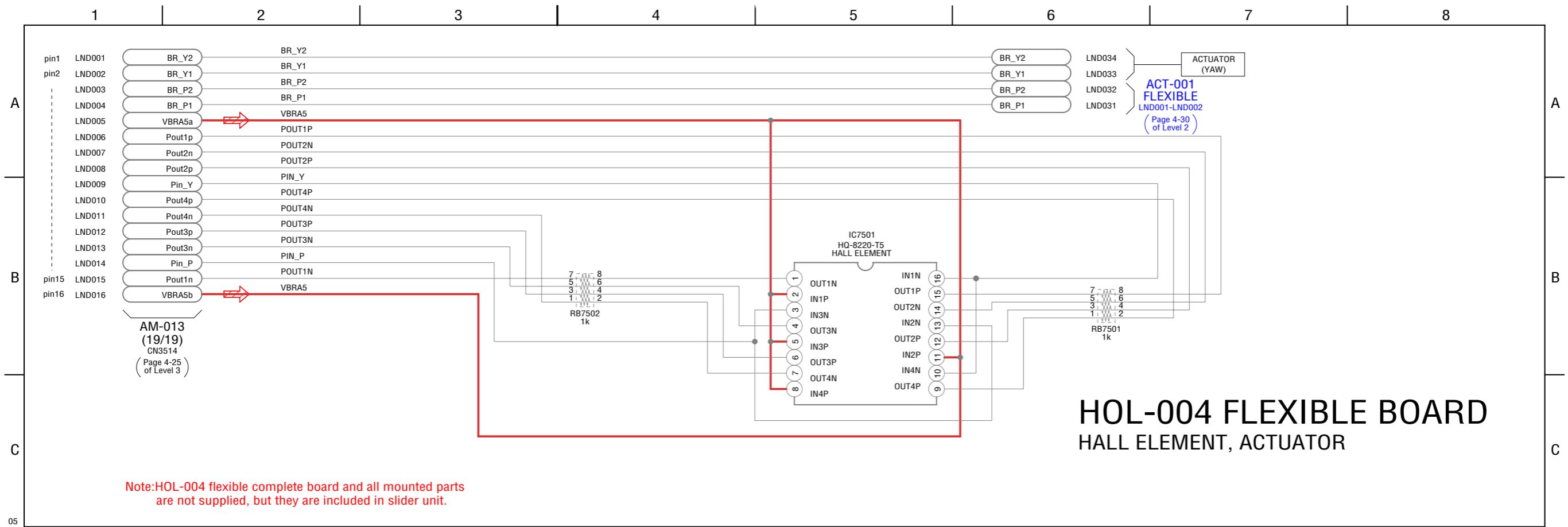


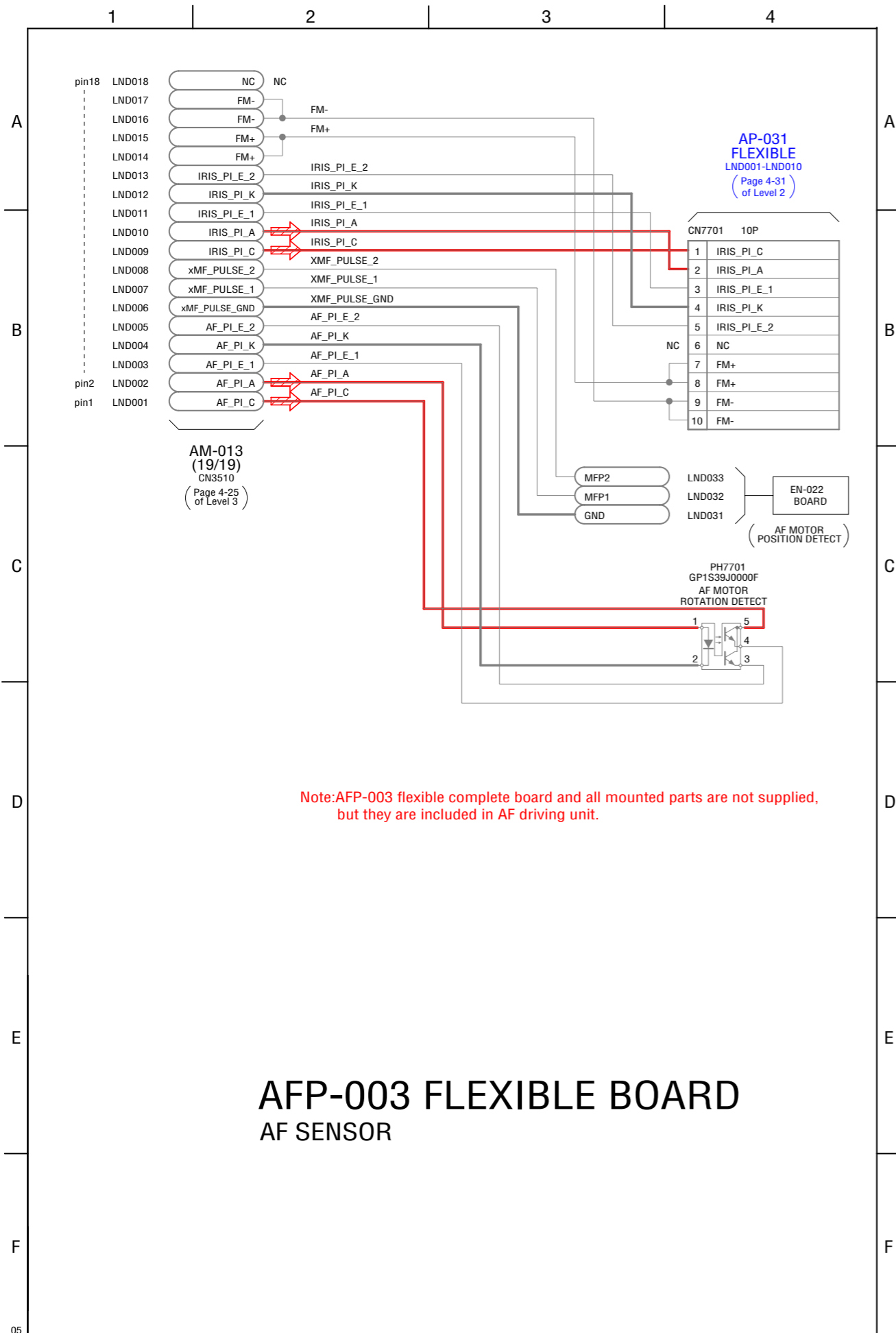
AM-013
(19/19)
CN3520
(Page 4-25
of Level 3)

ST-196
CN6501
(Page 4-36
of Level 2)

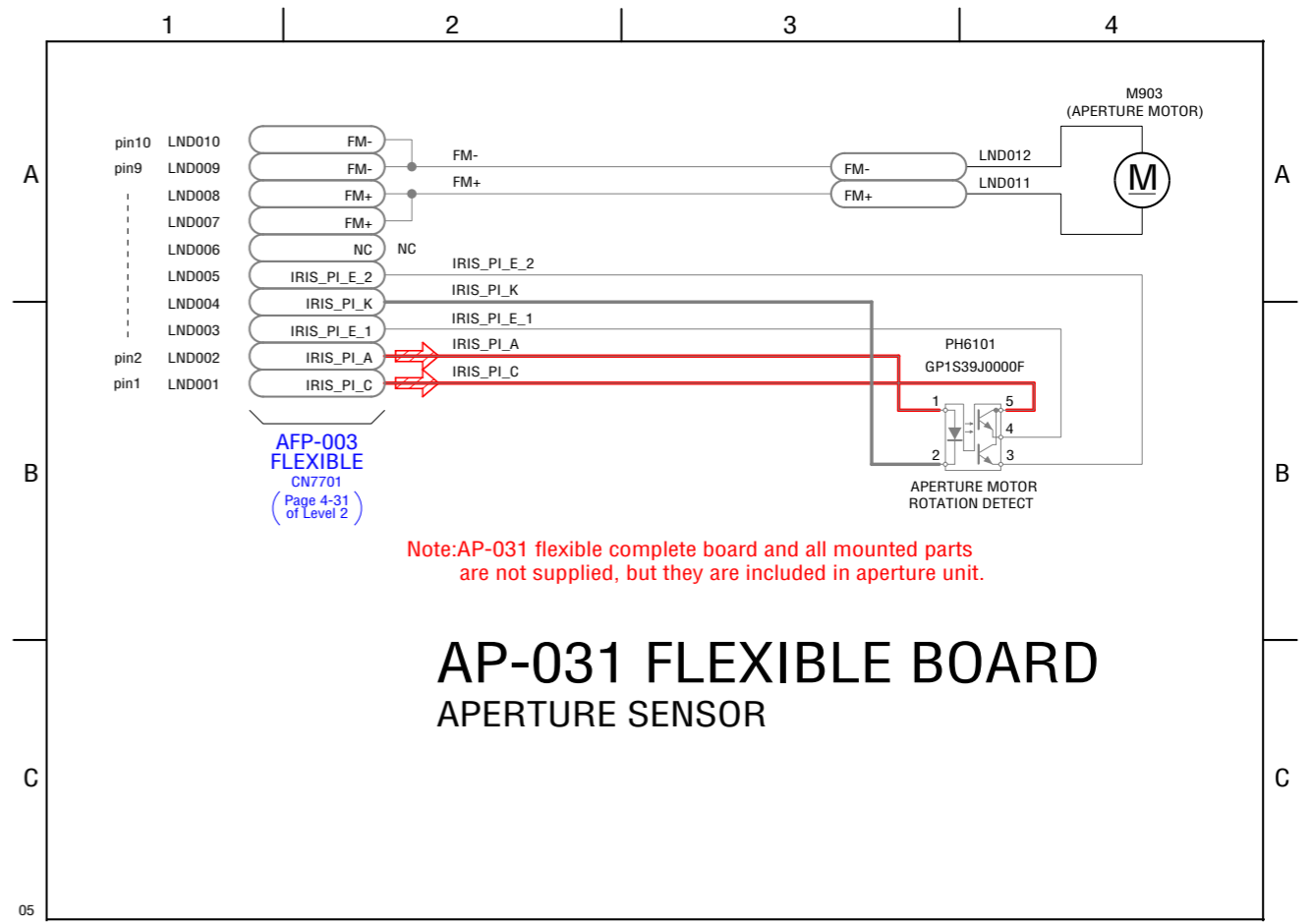
GY-008 FLEXIBLE BOARD

GYRO SENSOR

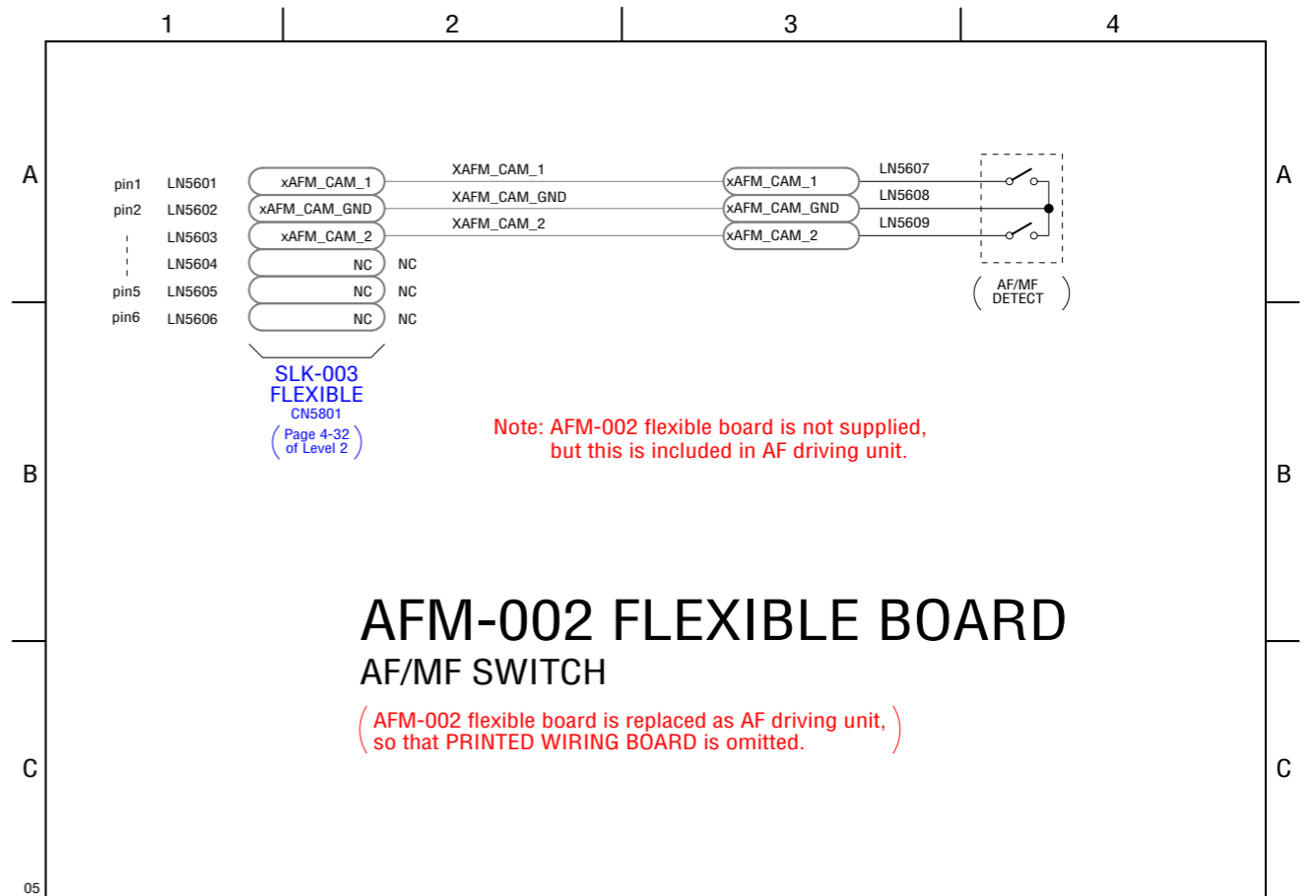




AFP-003 FLEXIBLE BOARD AF SENSOR

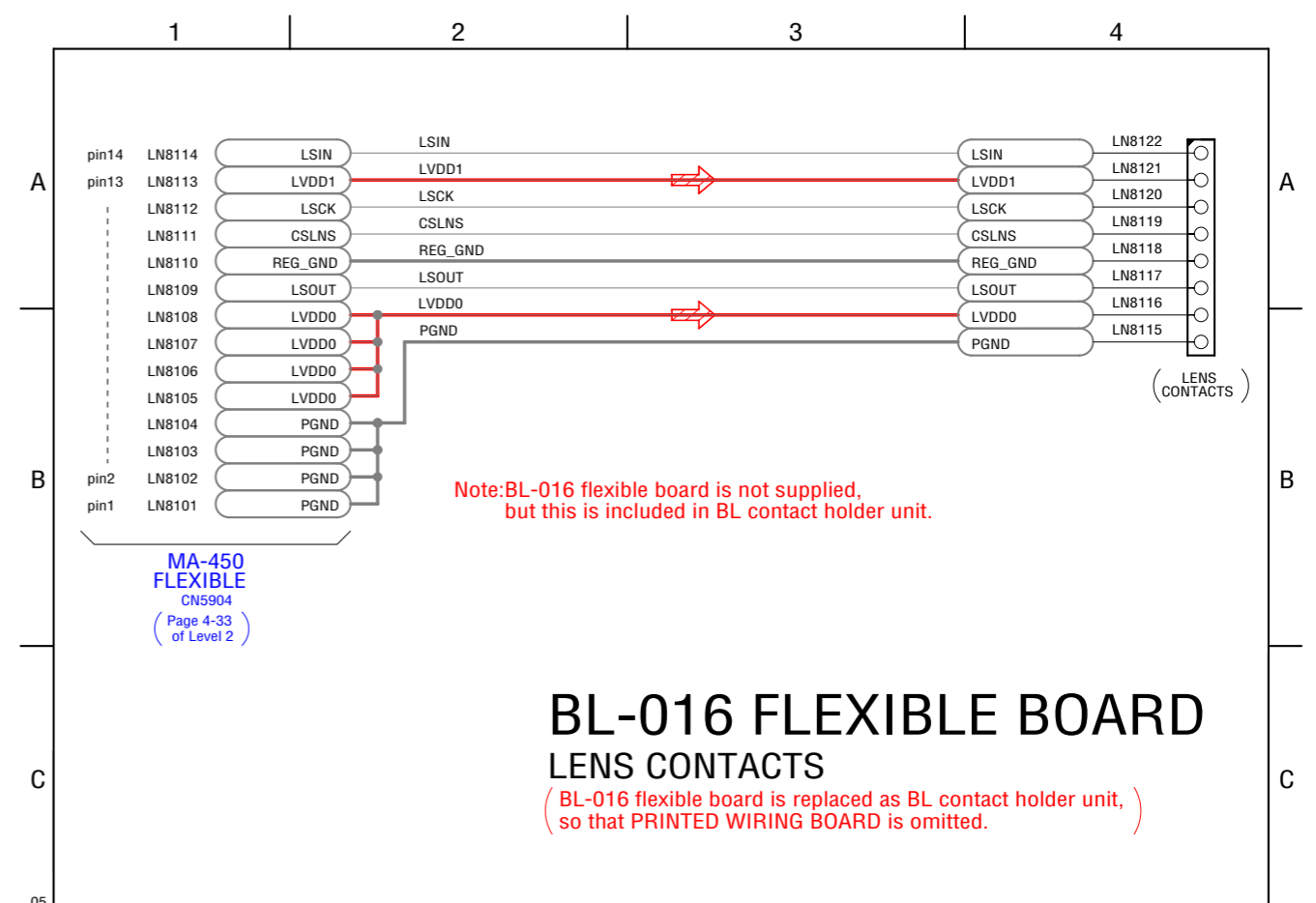
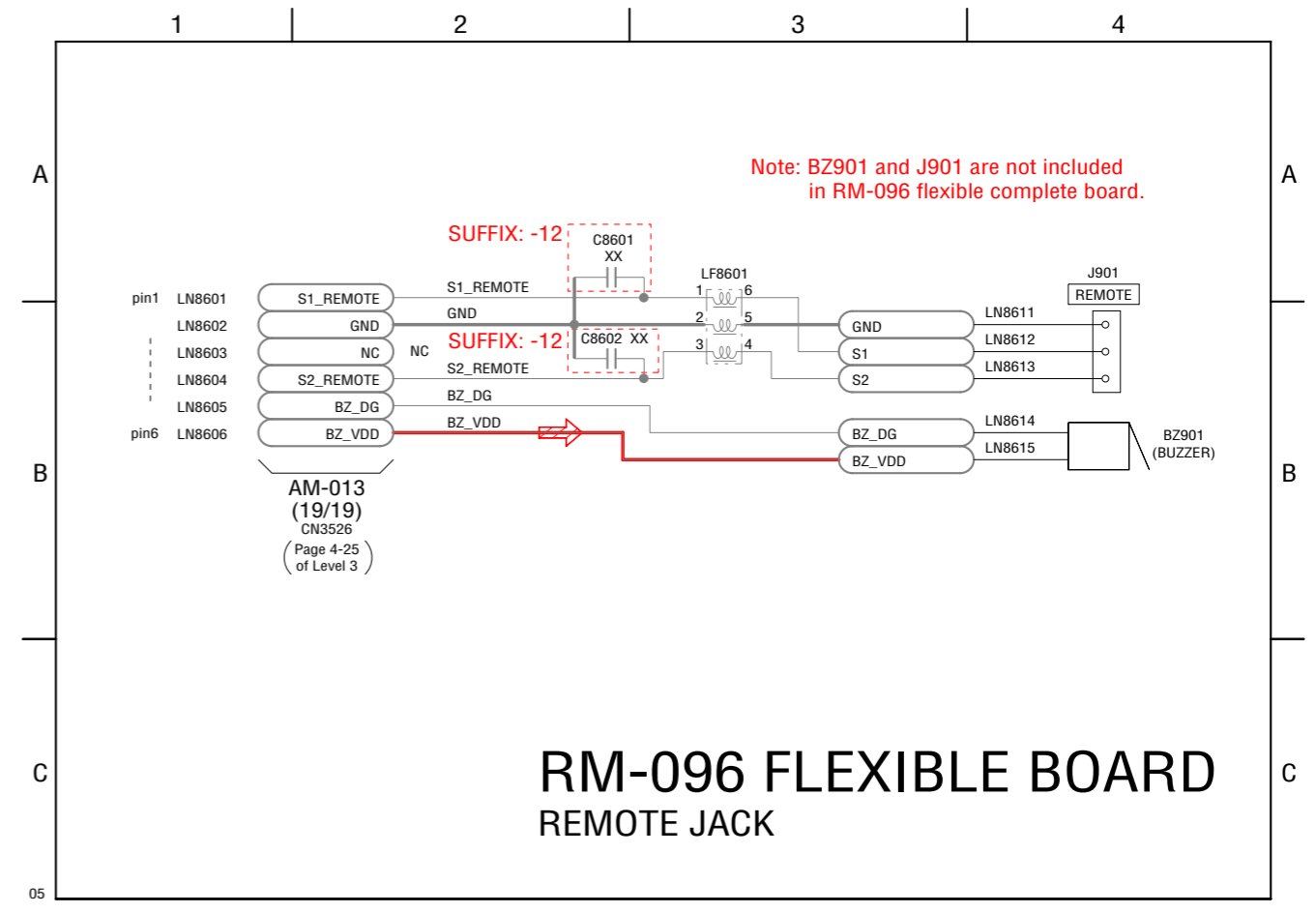
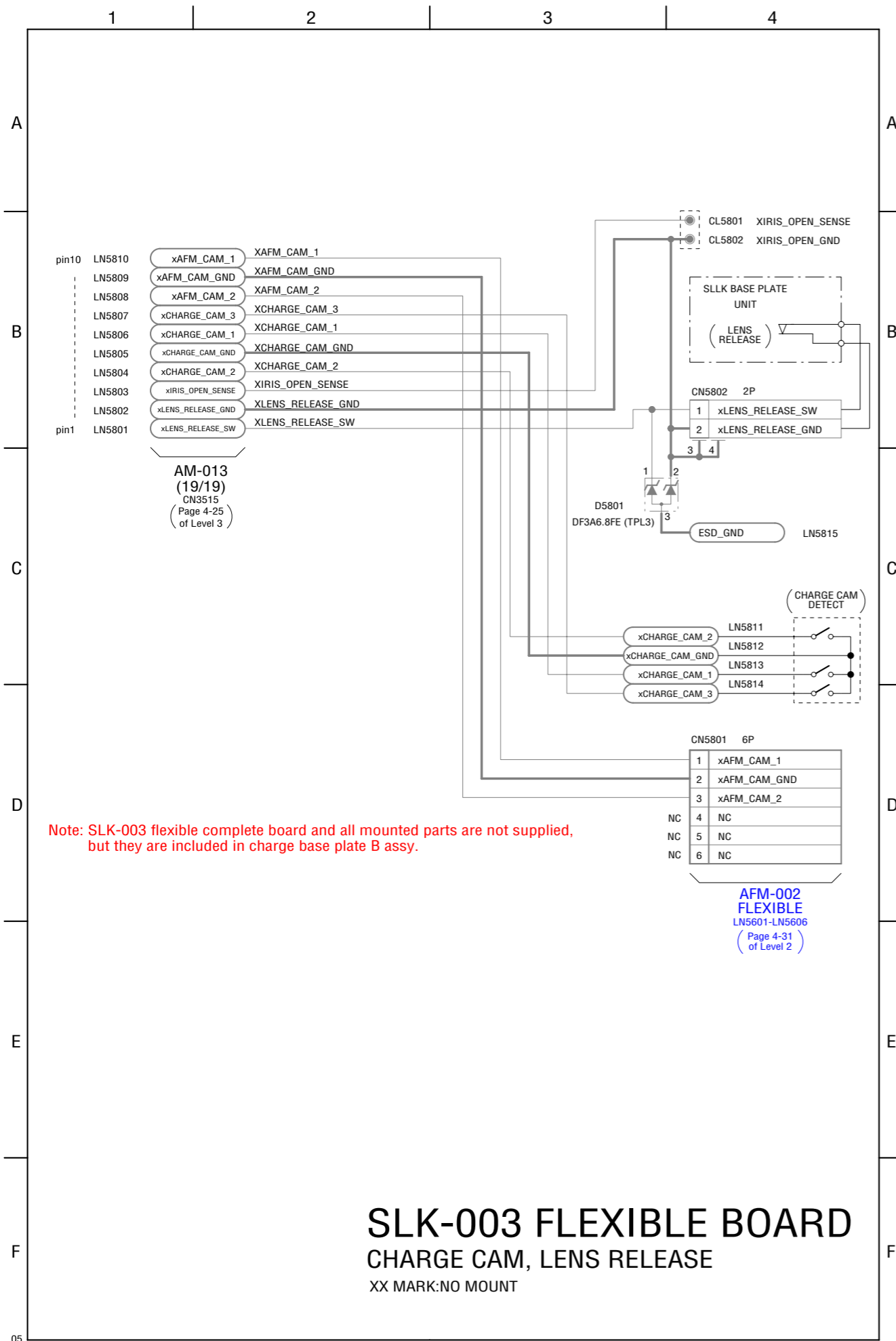


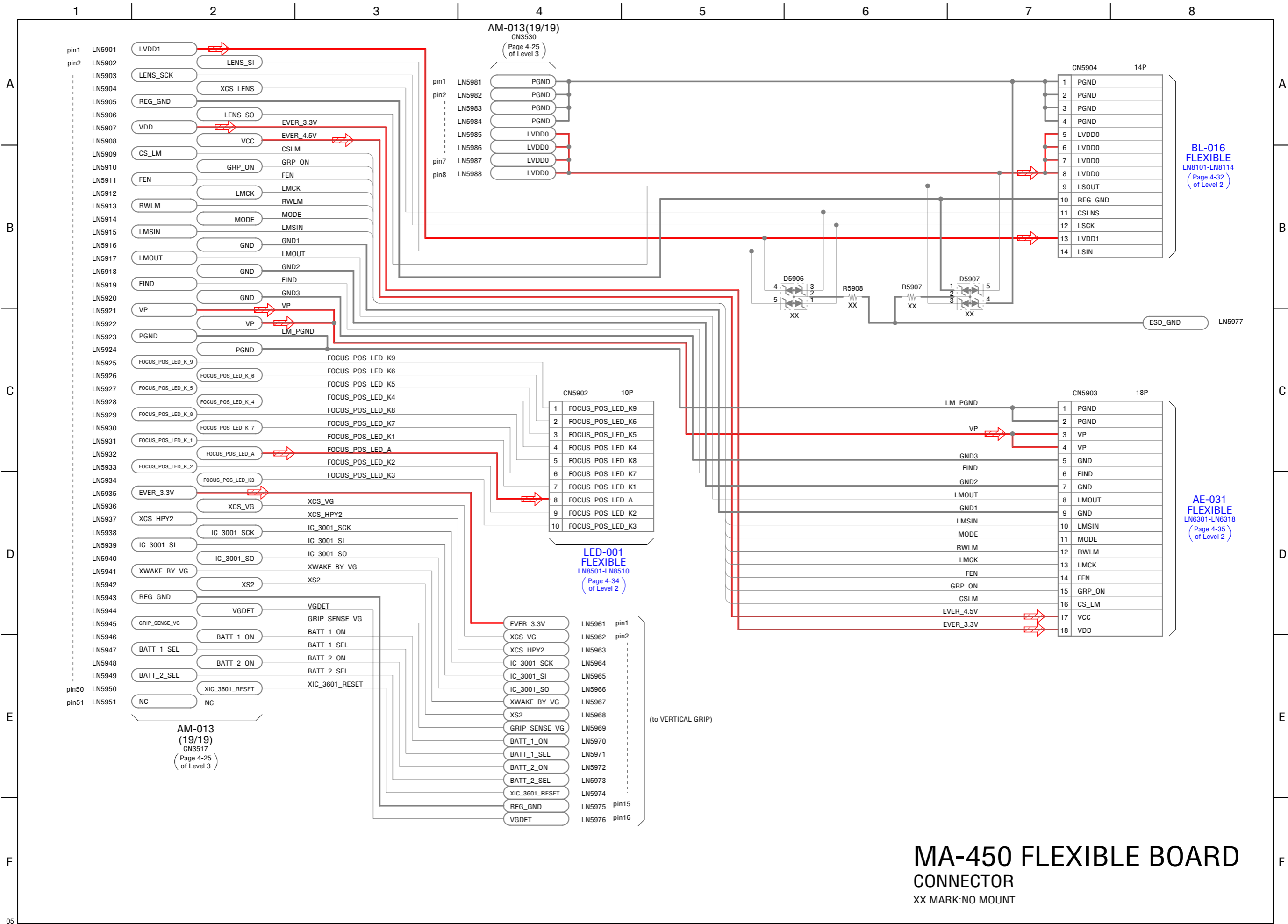
AP-031 FLEXIBLE BOARD APERTURE SENSOR



AFM-002 FLEXIBLE BOARD AF/MF SWITCH

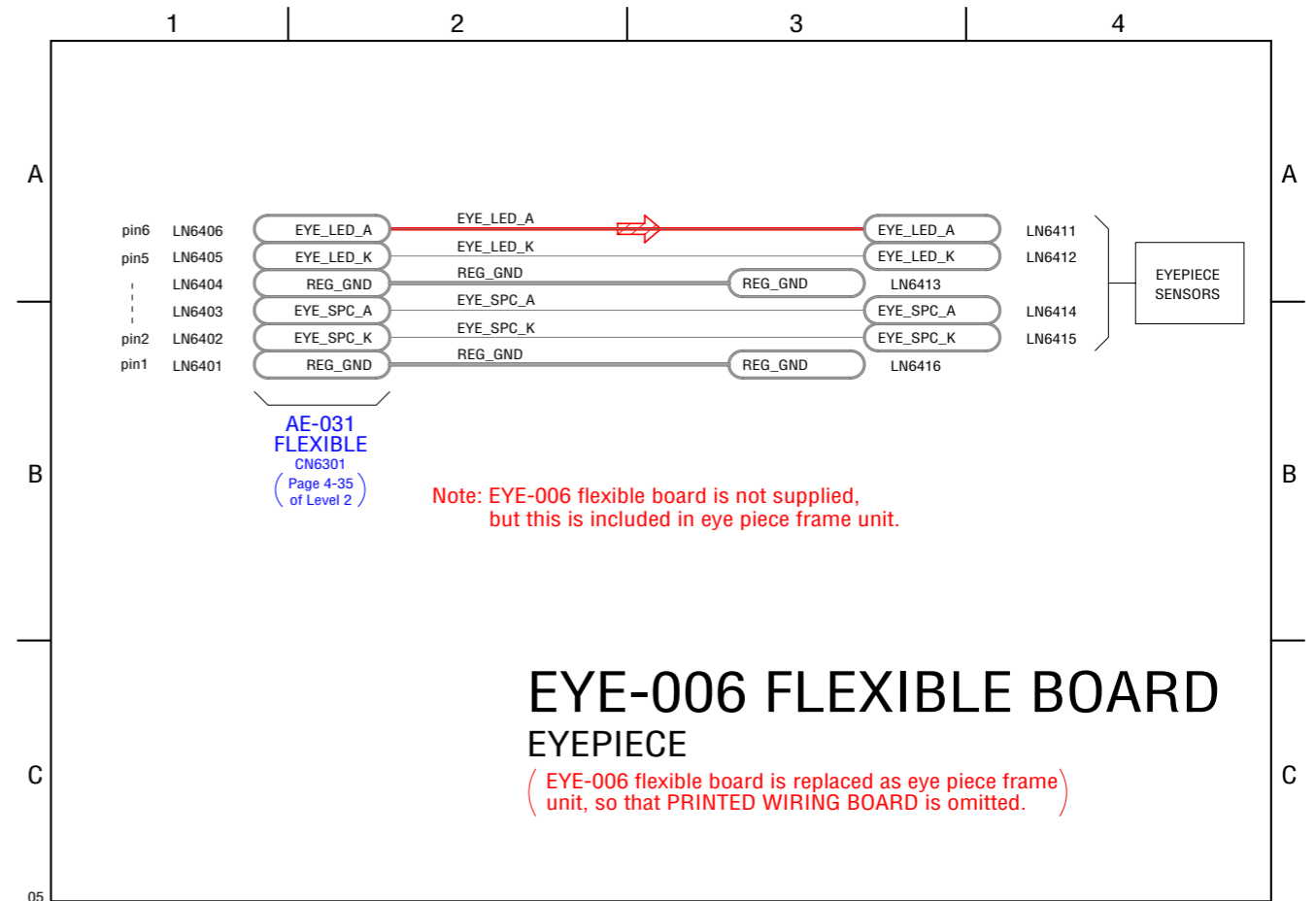
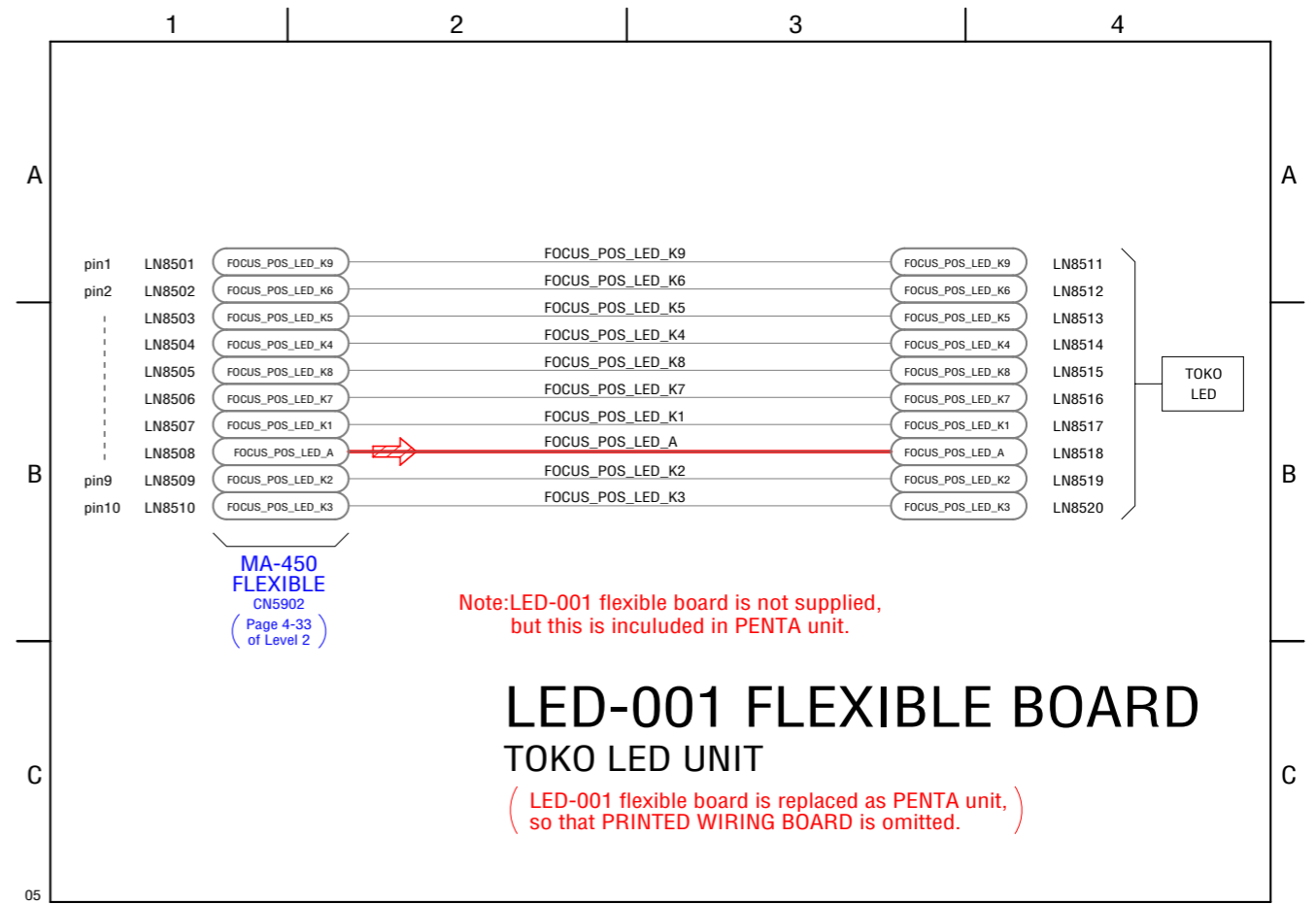
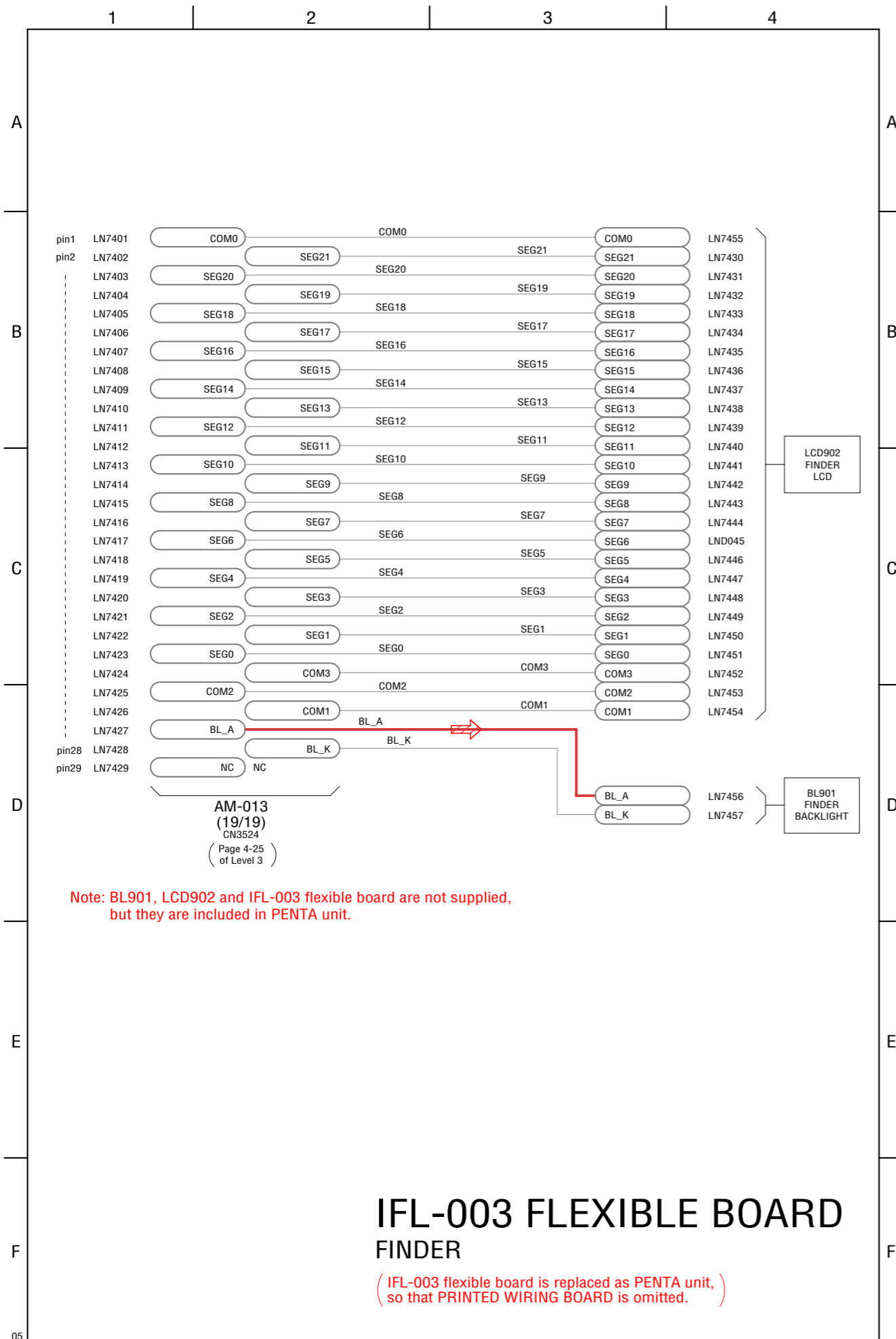
(AFM-002 flexible board is replaced as AF driving unit, so that PRINTED WIRING BOARD is omitted.)

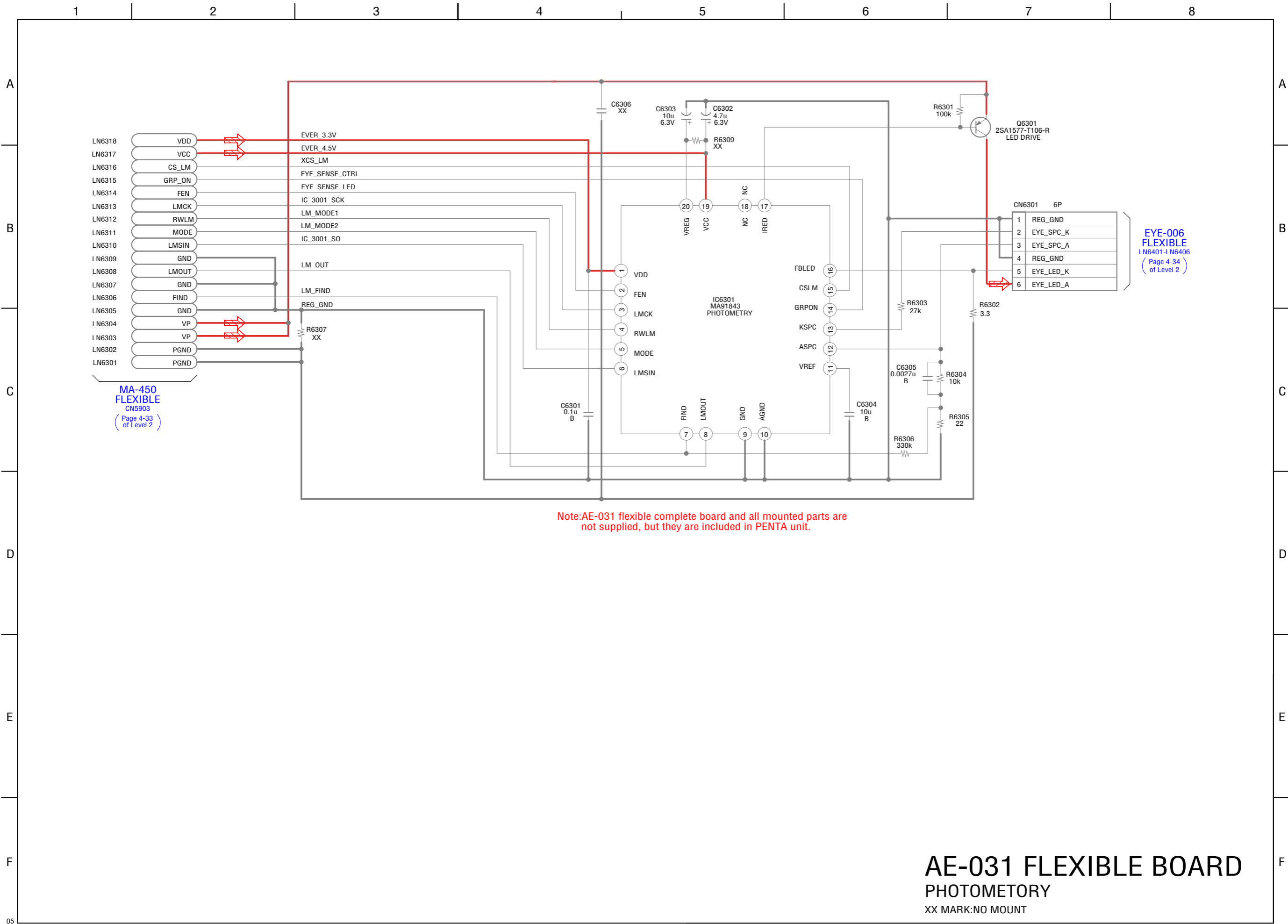




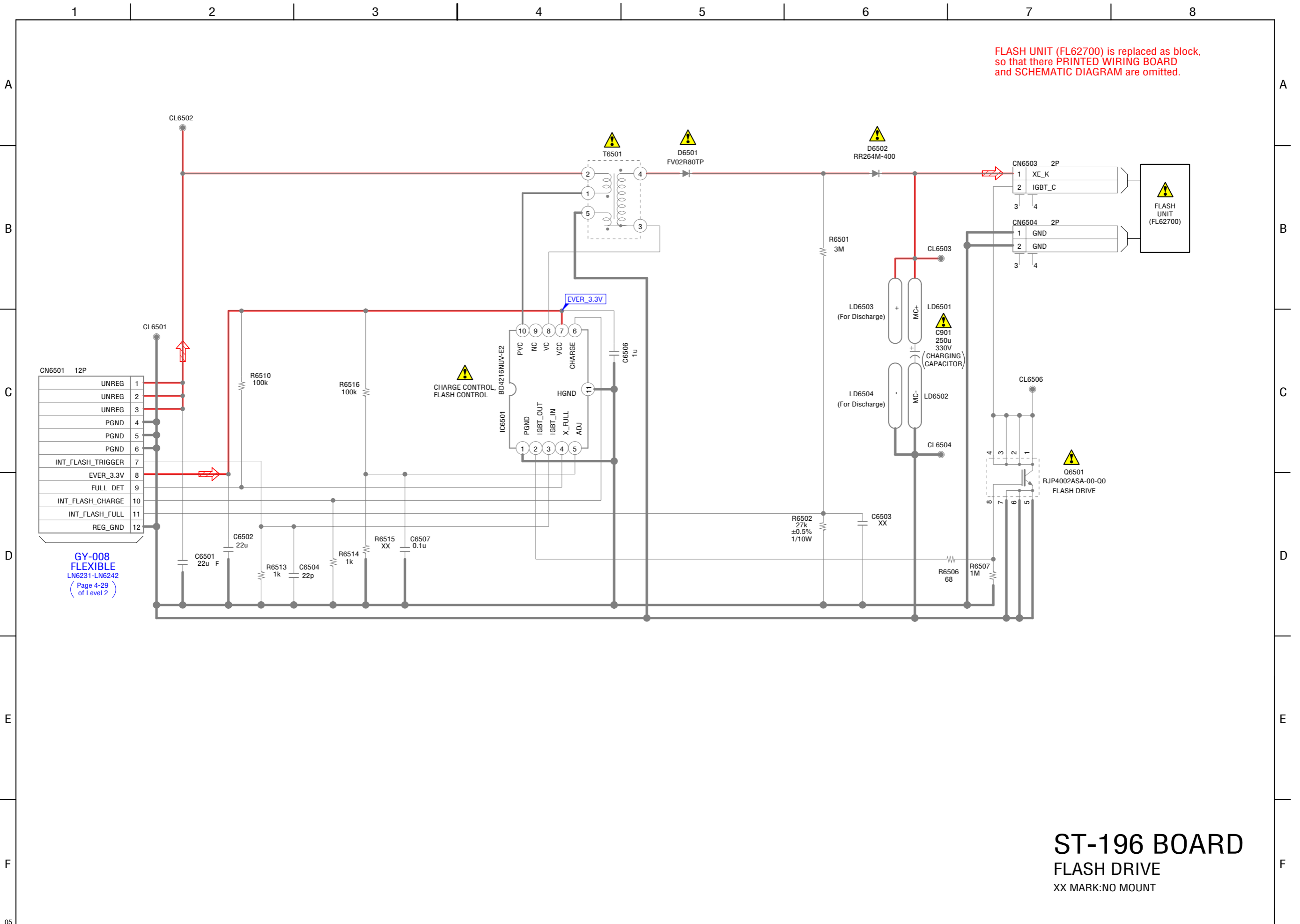
MA-450 FLEXIBLE BOARD CONNECTOR

XX MARK:NO MOUNT



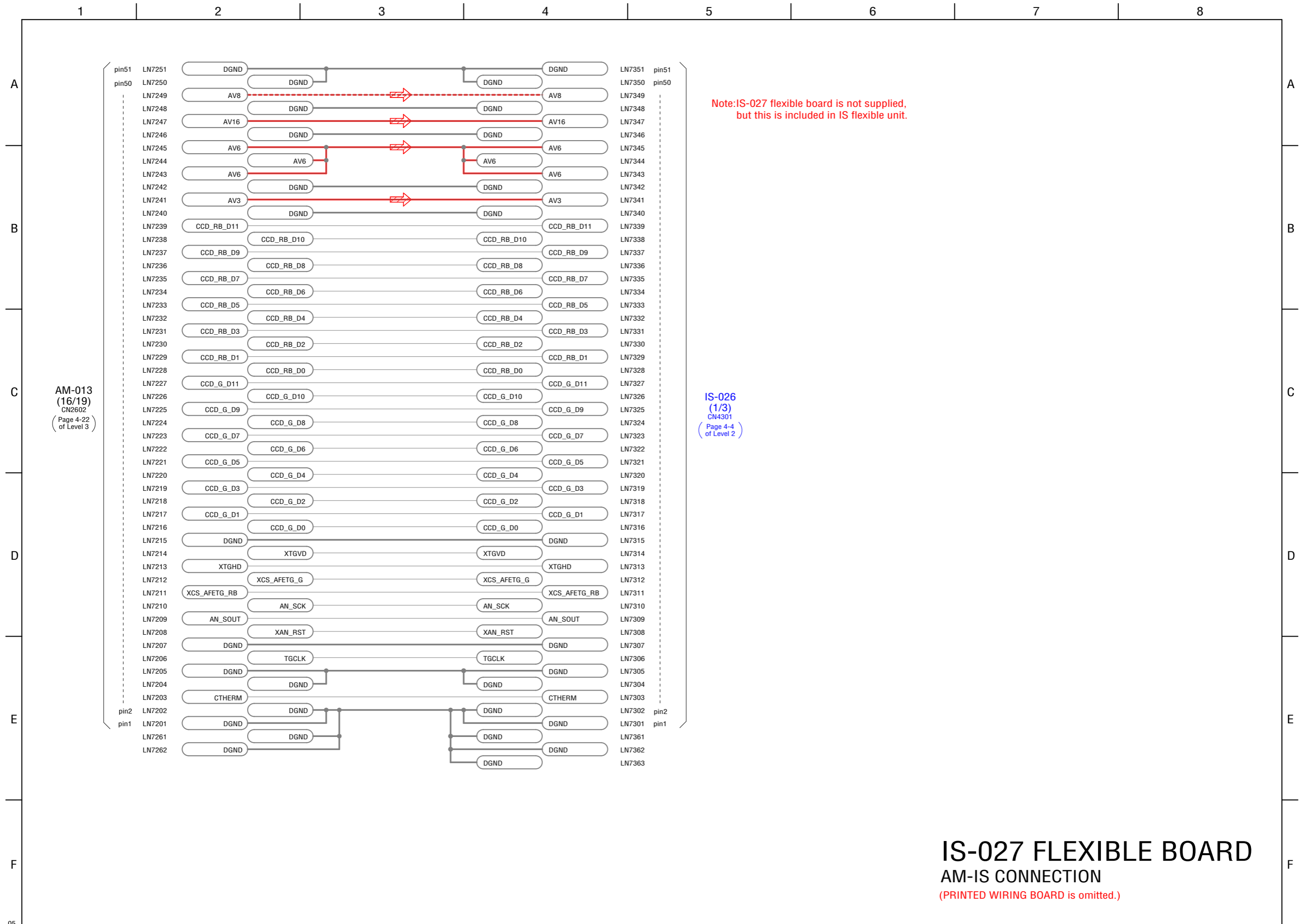


Note:AE-031 flexible complete board and all mounted parts are not supplied, but they are included in PENTA unit.



CN6501 12P	
UNREG	1
UNREG	2
UNREG	3
PGND	4
PGND	5
PGND	6
INT_FLASH_TRIGGER	7
EVER_3.3V	8
FULL_DET	9
INT_FLASH_CHARGE	10
INT_FLASH_FULL	11
REG_GND	12

GY-008
FLEXIBLE
LN6231-LN6242
(Page 4-29
of Level 2)



Note: IS-027 flexible board is not supplied, but this is included in IS flexible unit.

IS-026
(1/3)
CN4301
(Page 4-4 of Level 2)

AM-013
(16/19)
CN2602
(Page 4-22 of Level 3)

IS-027 FLEXIBLE BOARD

AM-IS CONNECTION

(PRINTED WIRING BOARD is omitted.)

A

B

C

D

E

F

G

H

A

B

C

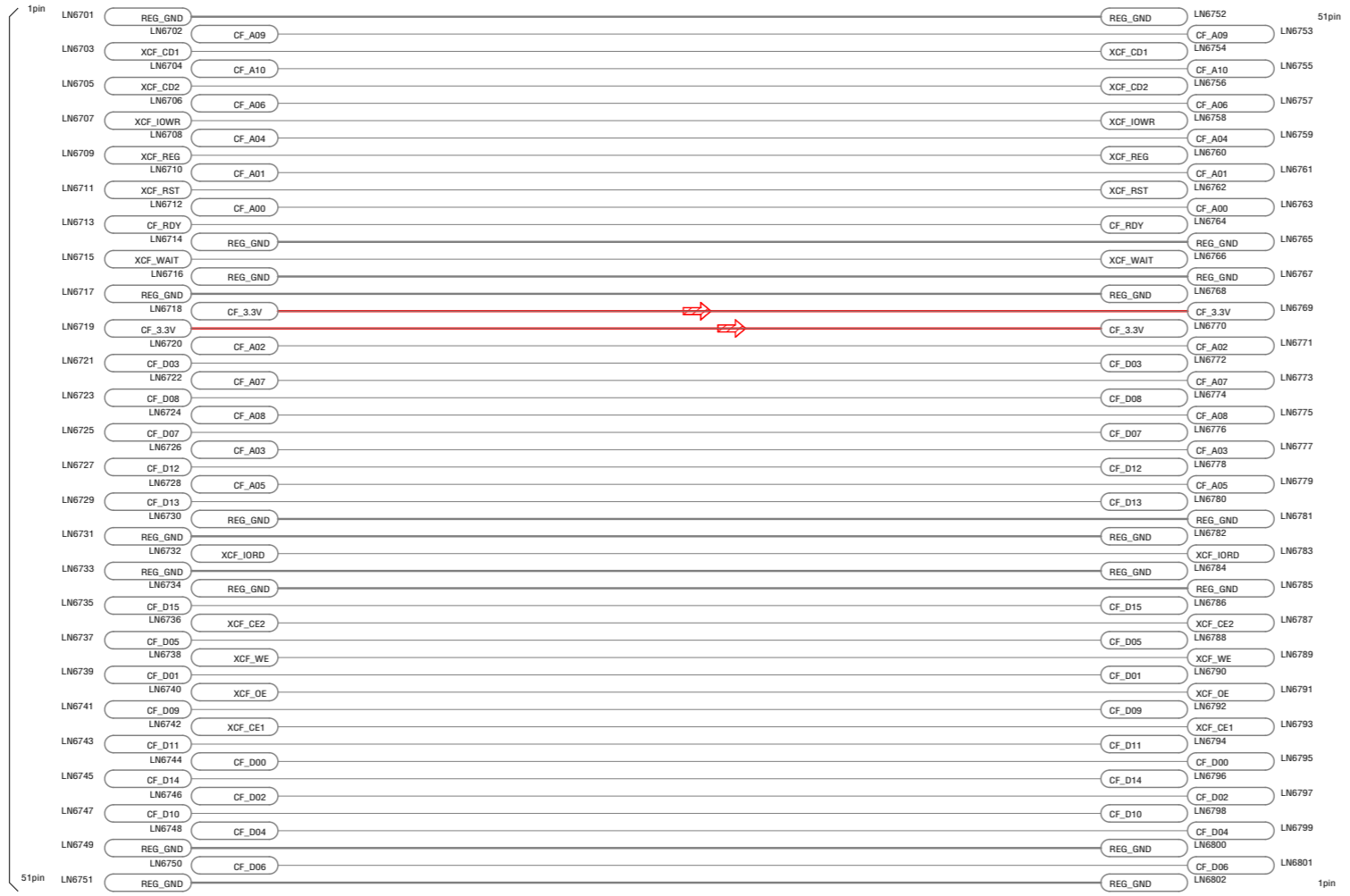
D

E

F

G

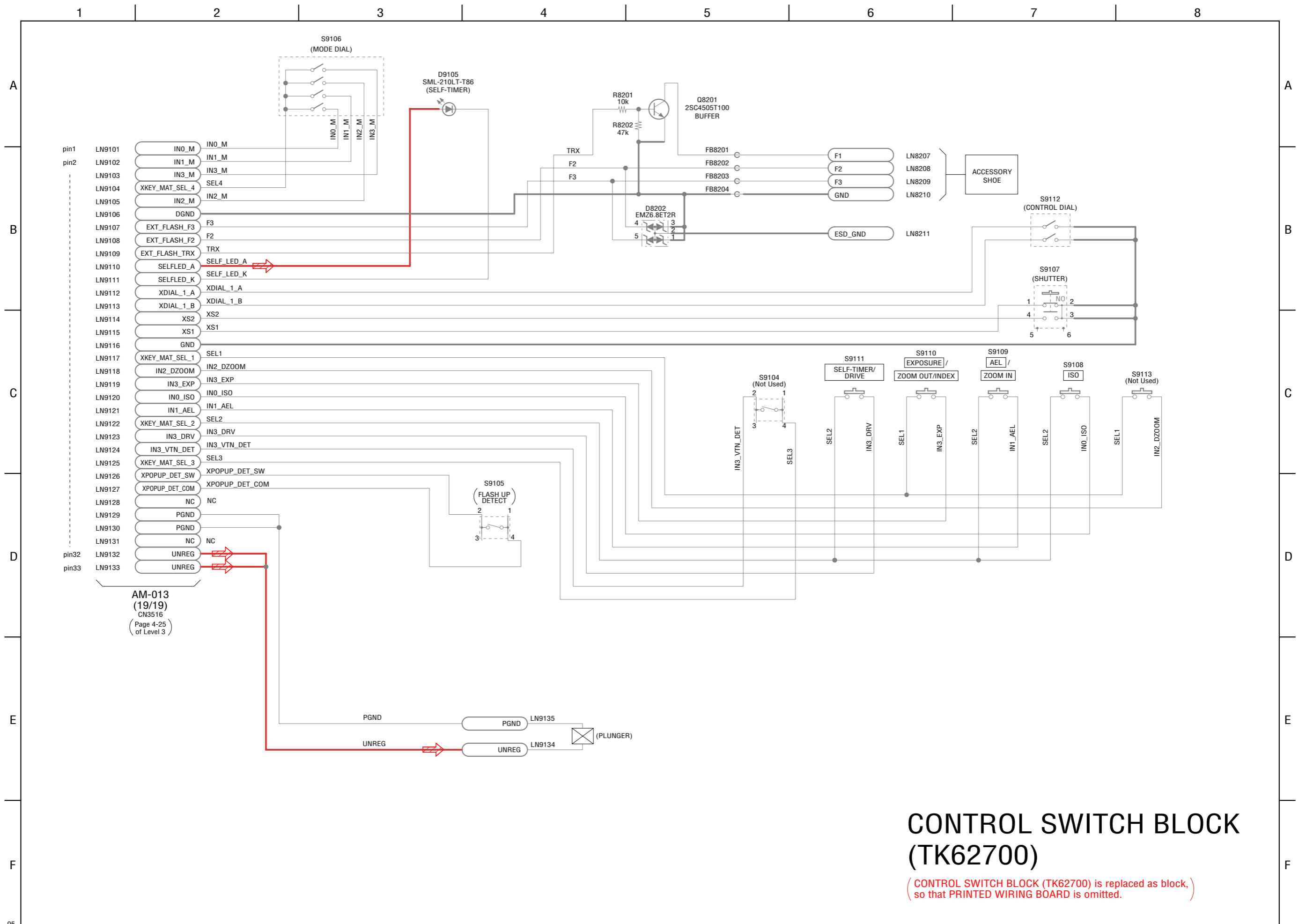
H



AM-013
(17/19)
CN2501
(Page 4-23
of Level 3)

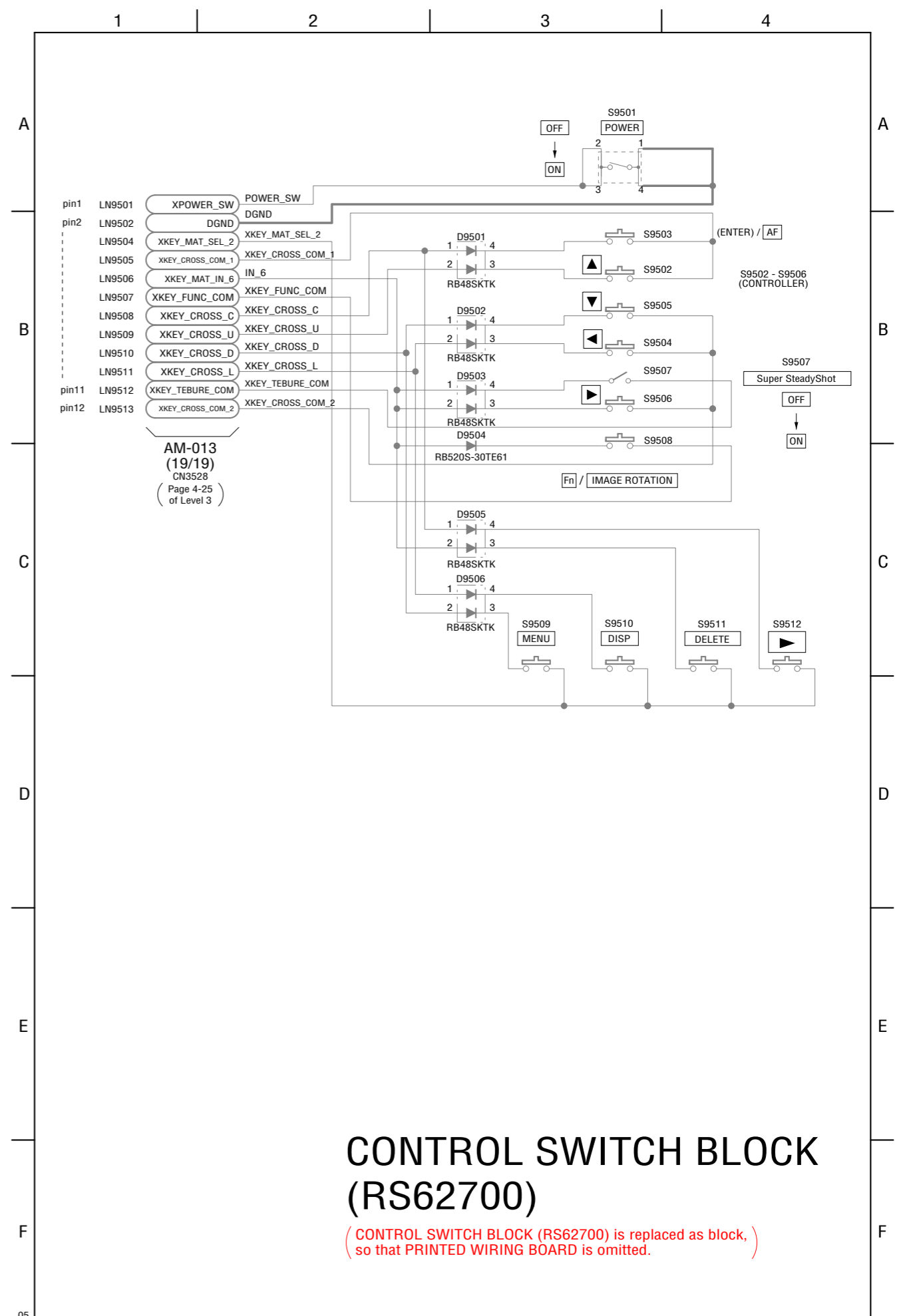
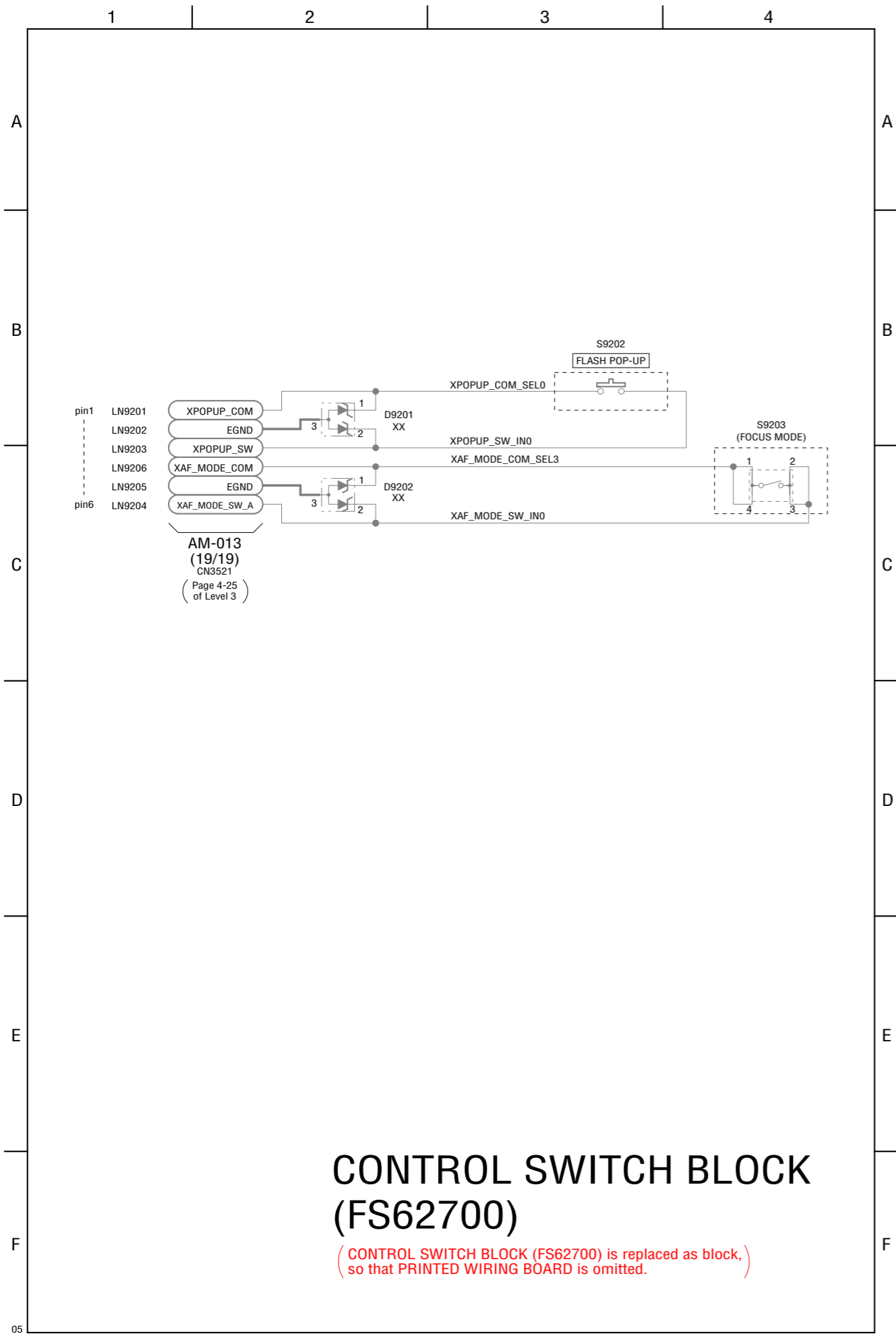
MM-076
CN2501
(Page 4-27
of Level 2)

MM-078 FLEXIBLE BOARD
AM-MM CONNECTION
(PRINTED WIRING BOARD is omitted.)



CONTROL SWITCH BLOCK (TK62700)

(CONTROL SWITCH BLOCK (TK62700) is replaced as block, so that PRINTED WIRING BOARD is omitted.)



4-3. PRINTED WIRING BOARDS

Link

• IS-026 BOARD	• AP-031 FLEXIBLE BOARD
• LF-056 FLEXIBLE BOARD	• SLK-003 FLEXIBLE BOARD
• MM-076 BOARD	• RM-096 FLEXIBLE BOARD
• GY-008 FLEXIBLE BOARD	• MA-450 FLEXIBLE BOARD
• HOL-004 FLEXIBLE BOARD	• AE-031 FLEXIBLE BOARD
• AFP-003 FLEXIBLE BOARD	• ST-196 BOARD







[• COMMON NOTE FOR PRINTED WIRING BOARDS](#)

4-3. PRINTED WIRING BOARDS

4-3. PRINTED WIRING BOARDS

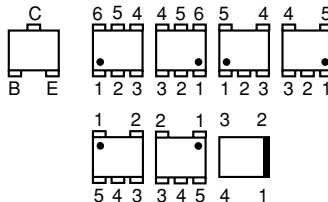
(ENGLISH)

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

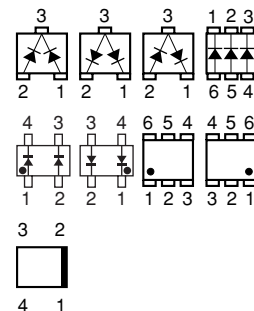
-  : Uses unleaded solder.
-  : Circuit board
-  : Flexible board
-  : Pattern from the side which enables seeing.
-  : pattern of the rear side
(The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.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

- Chip parts.

Transistor









Diode



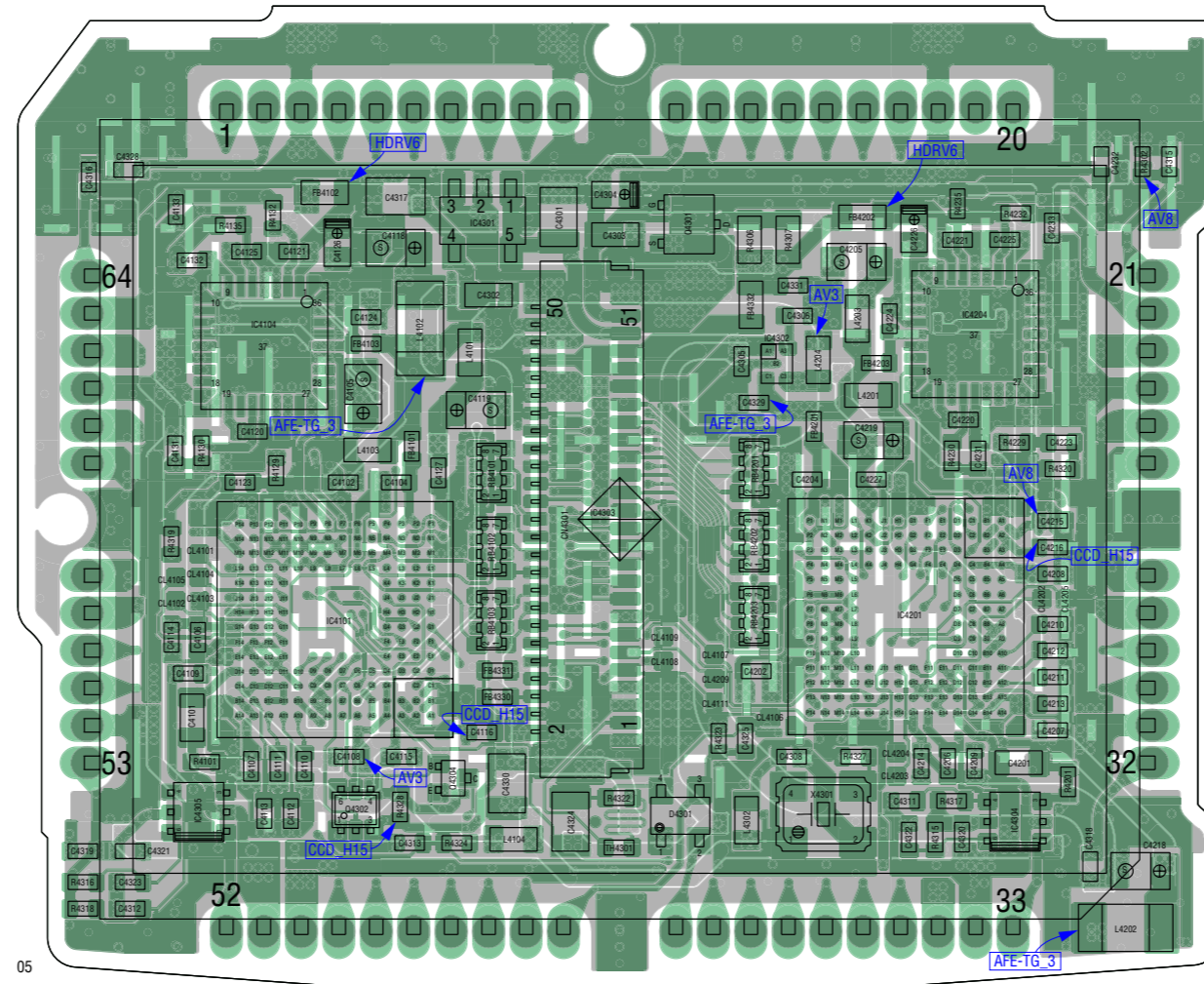
(JAPANESE)

プリント図共通ノート

【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。

IS-026 BOARD



1-873-781-11

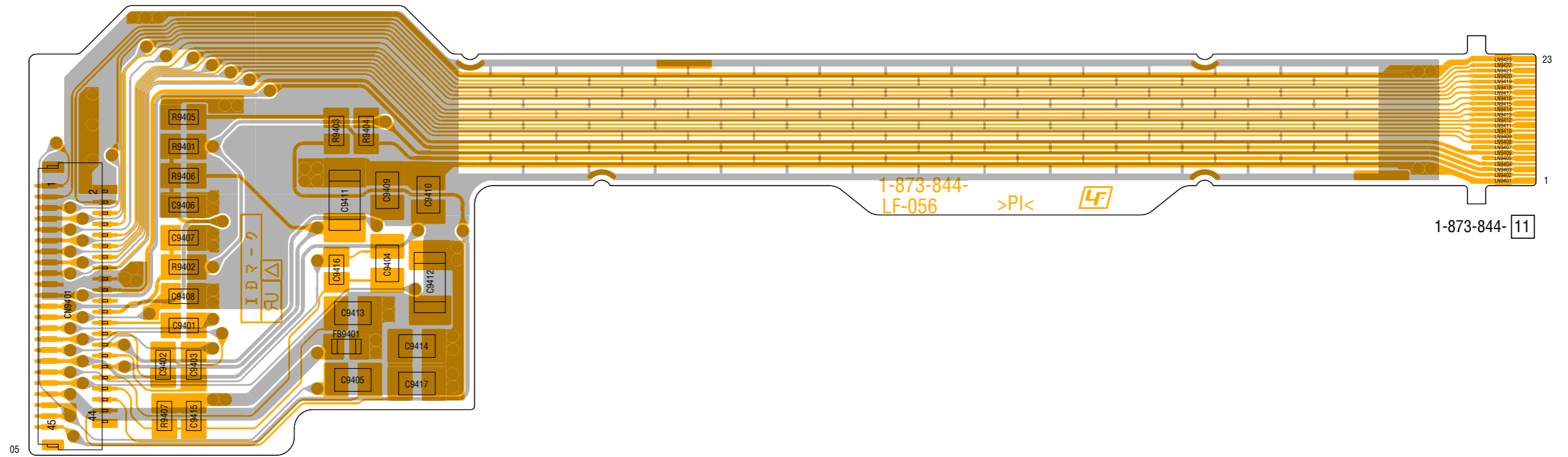
Note: IC4303 (CCD imager), IS-026 complete board and all mounted parts are not supplied, but they are included in CCD assy 627.

Printed wiring boards of the AM-013 board is not shown.
Pages 4-43 and 4-44 are not shown.

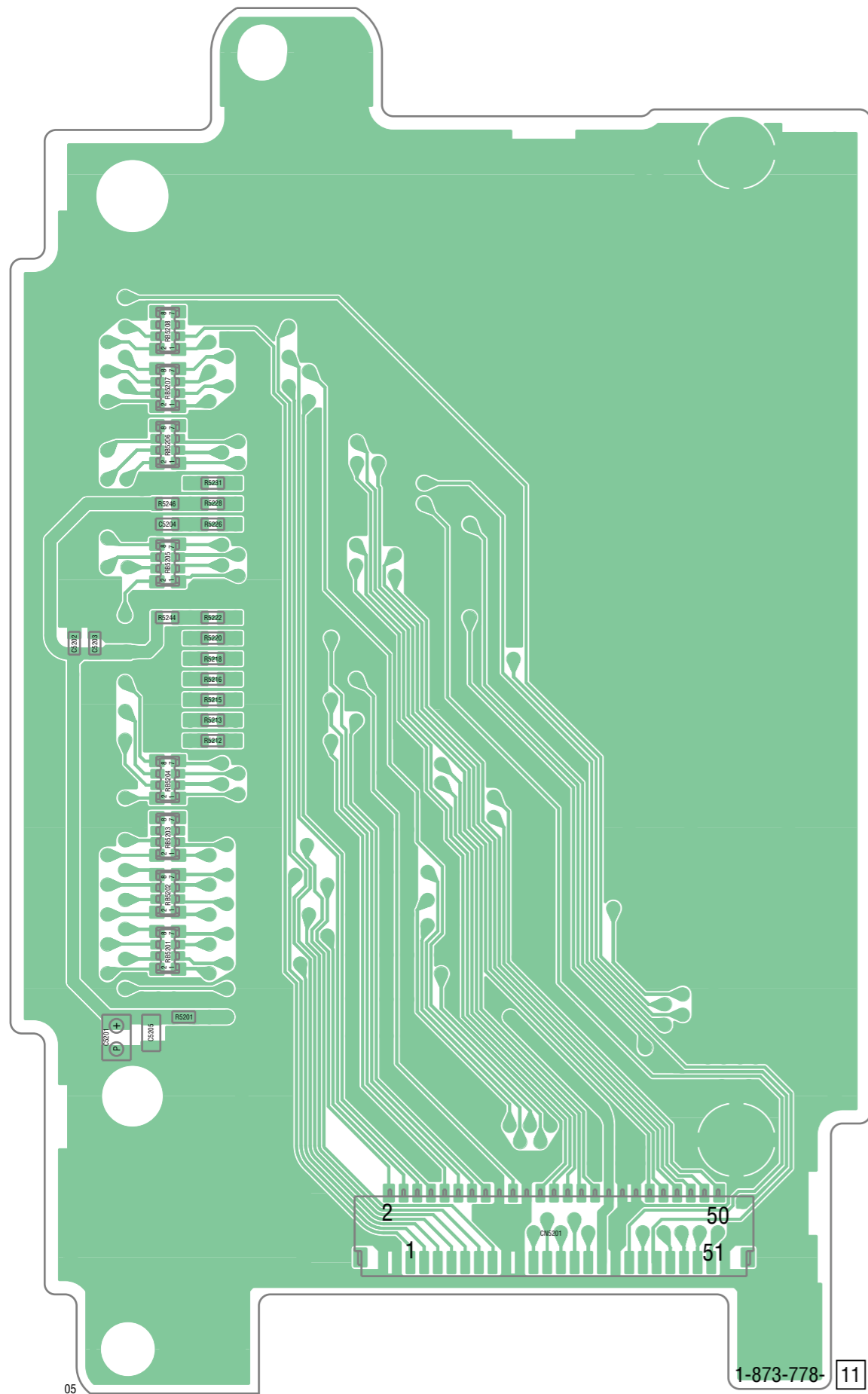
LF-056 (2 layers)

 : Uses unleaded solder.

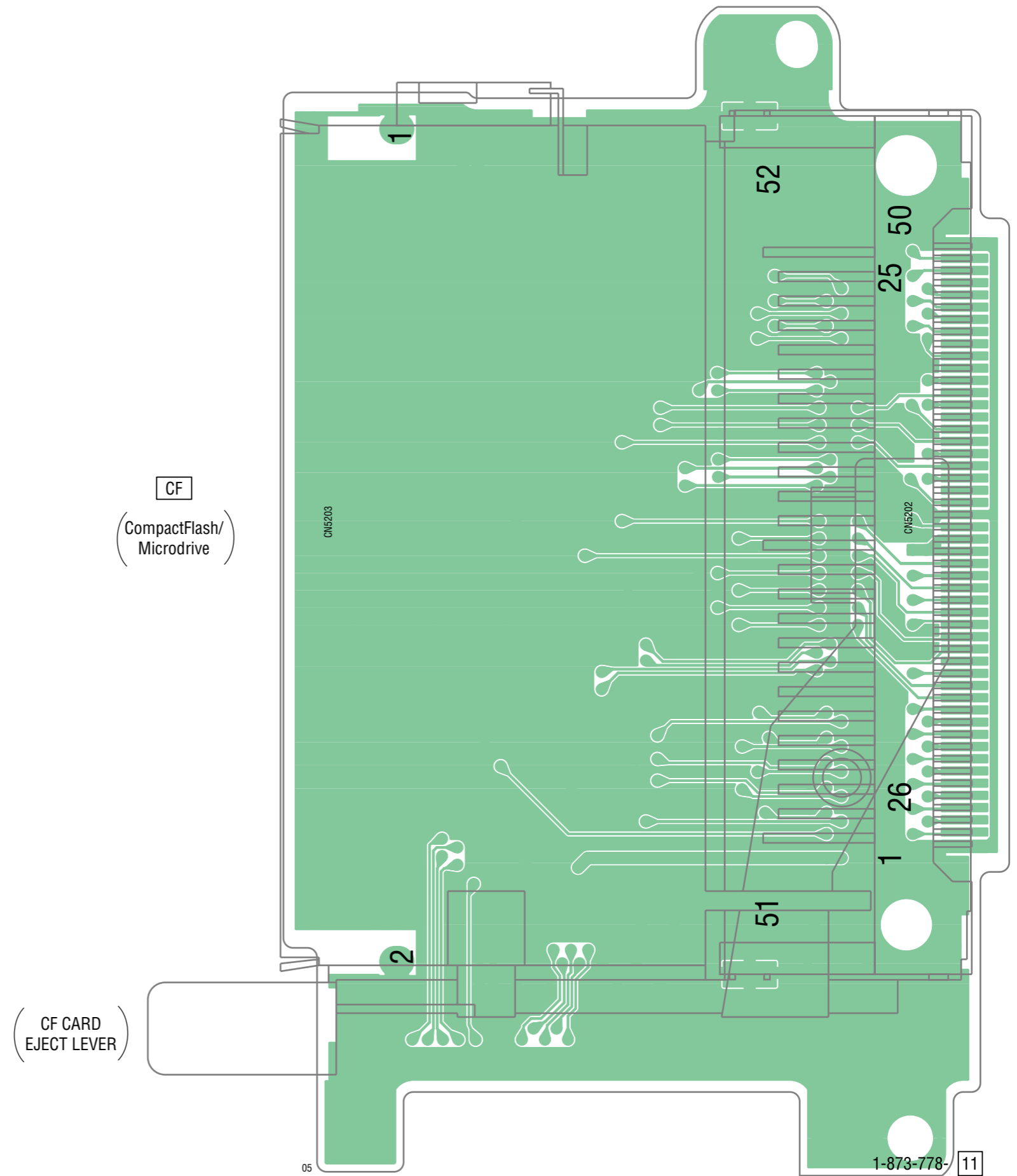
LF-056 FLEXIBLE BOARD



MM-076 BOARD (SIDE A)



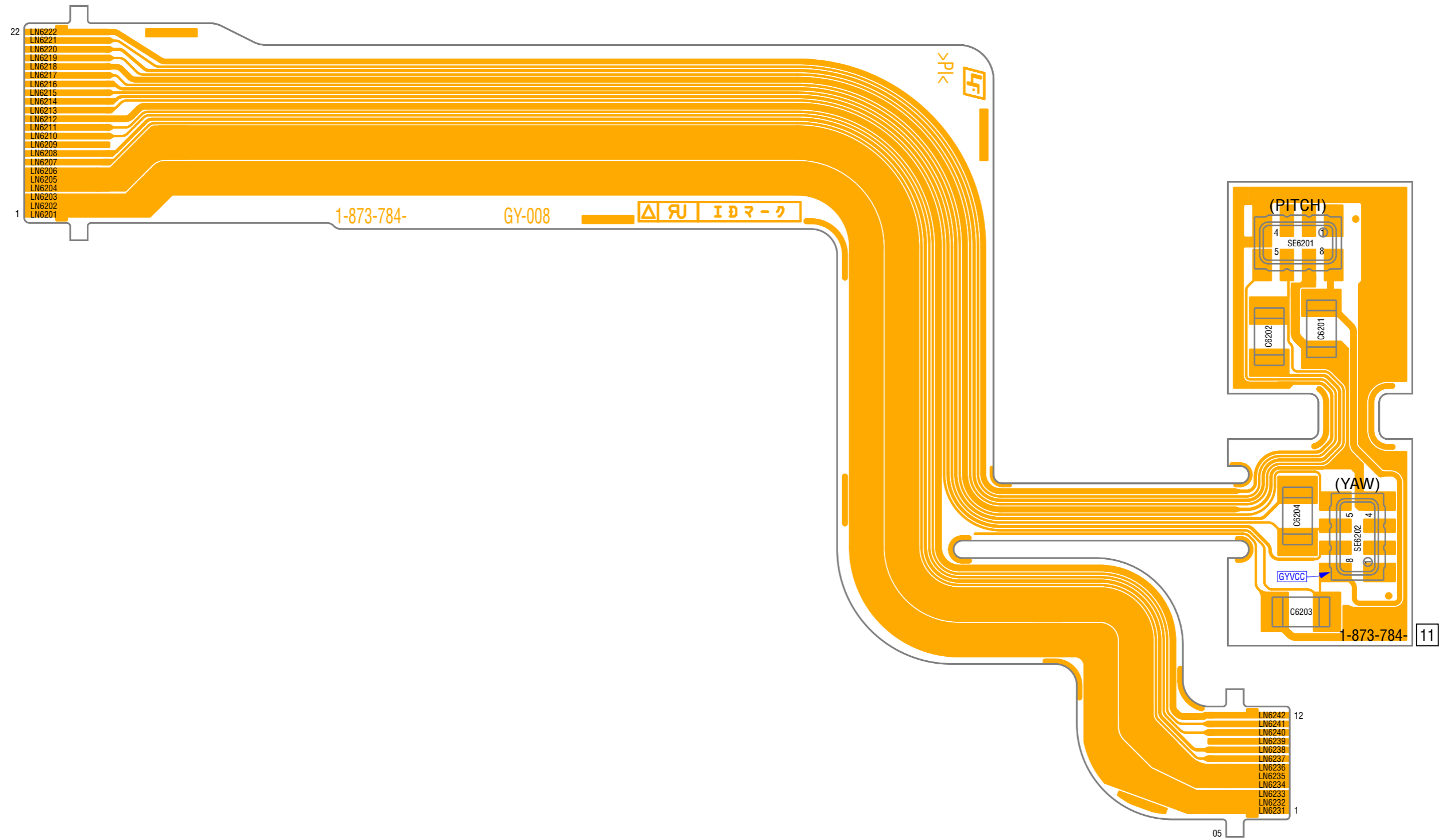
MM-076 BOARD (SIDE B)



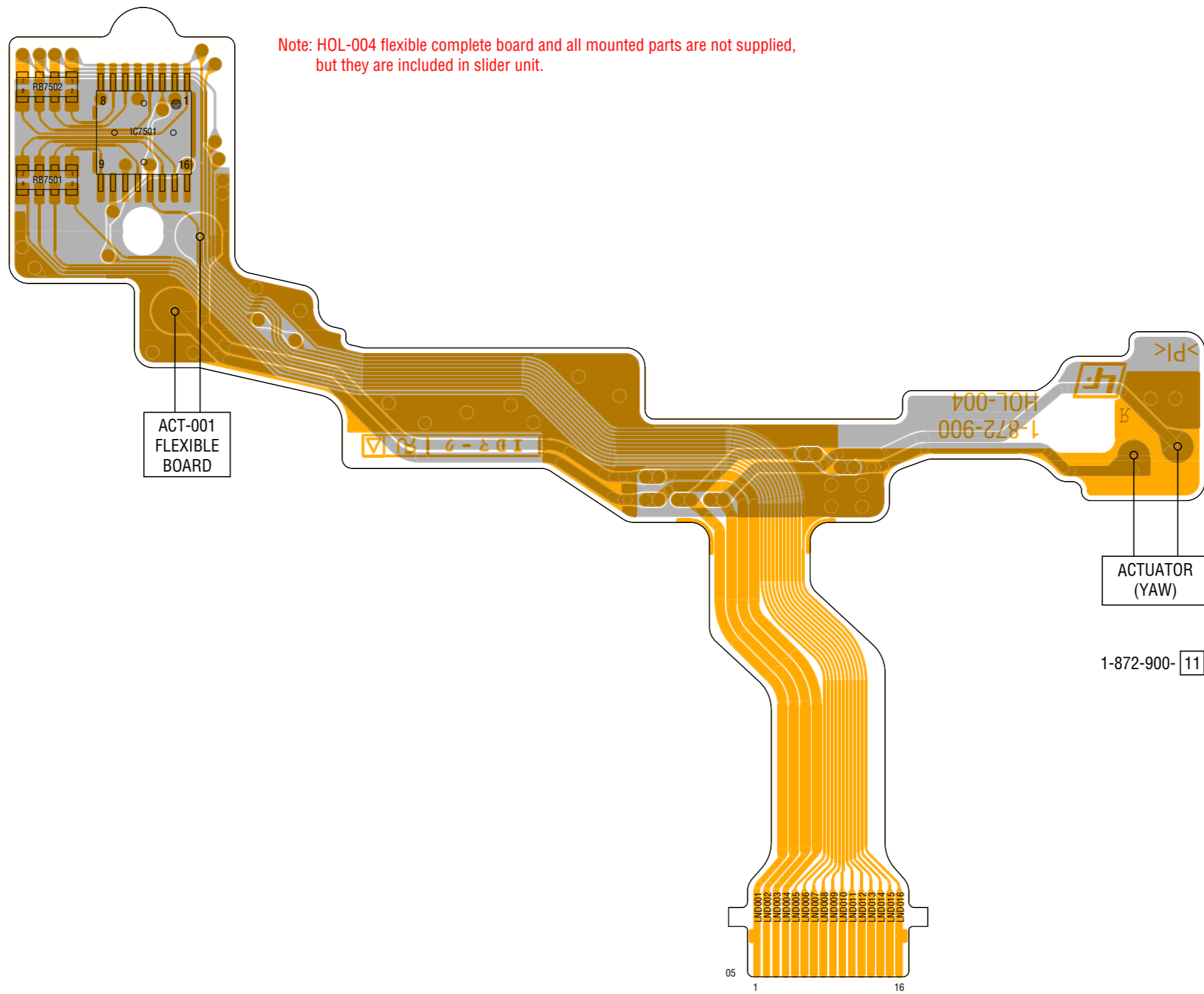
GY-008 (1 layer)

 : Uses unleaded solder.

GY-008 FLEXIBLE BOARD



HOL-004 FLEXIBLE BOARD



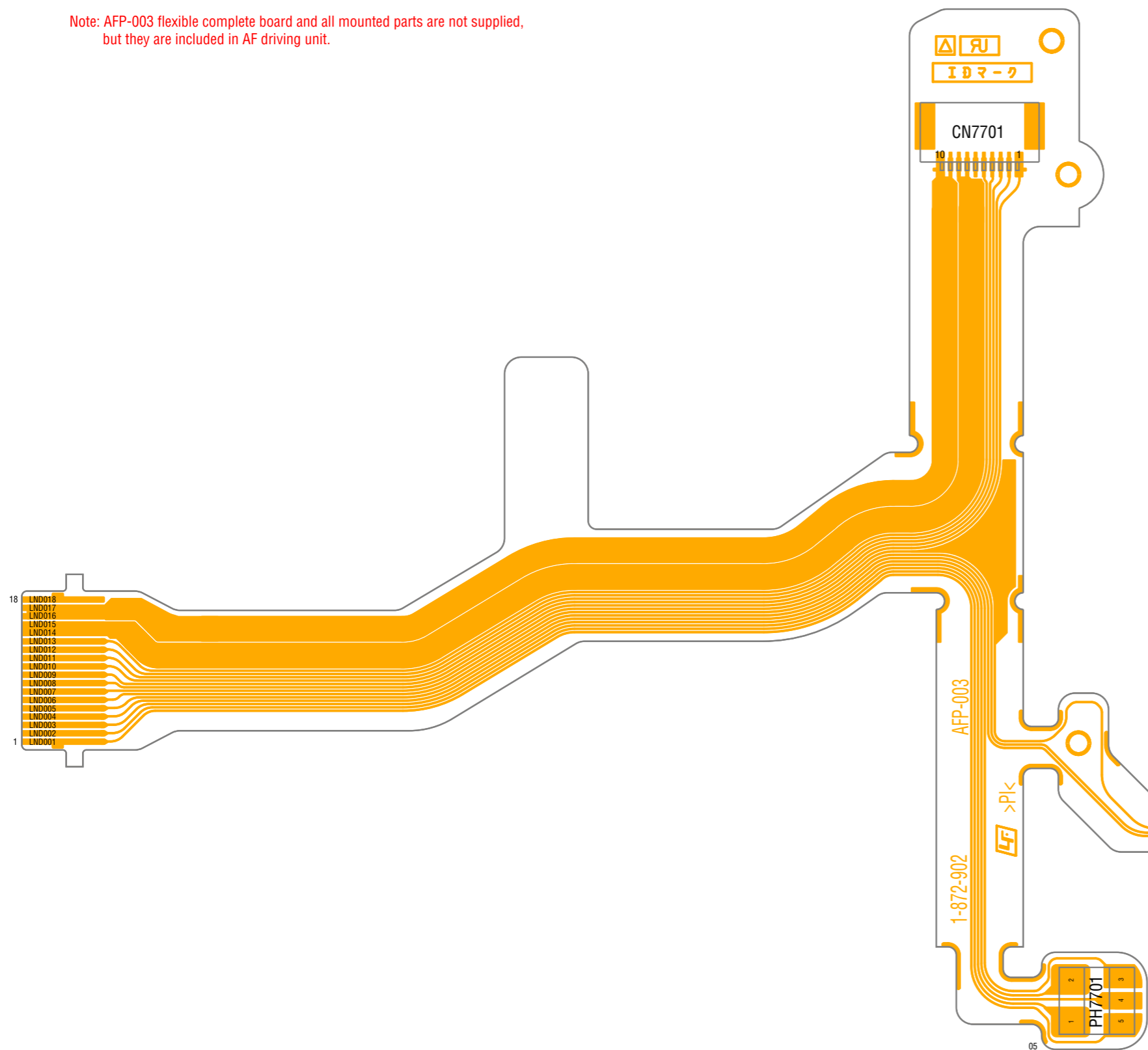
Note: HOL-004 flexible complete board and all mounted parts are not supplied, but they are included in slider unit.

AFP-003 (1 layer), AP-031 (1 layer)

 : Uses unleaded solder.

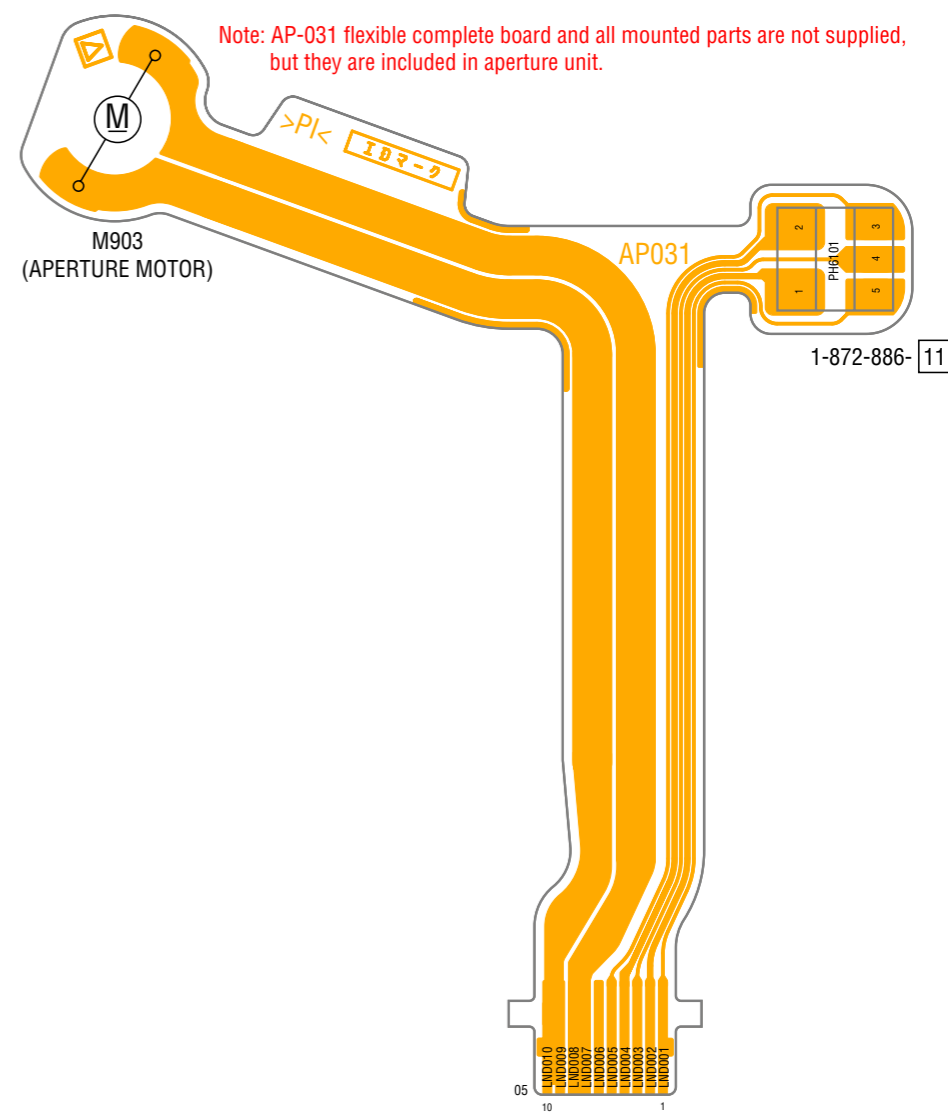
AFP-003 FLEXIBLE BOARD

Note: AFP-003 flexible complete board and all mounted parts are not supplied, but they are included in AF driving unit.



AP-031 FLEXIBLE BOARD

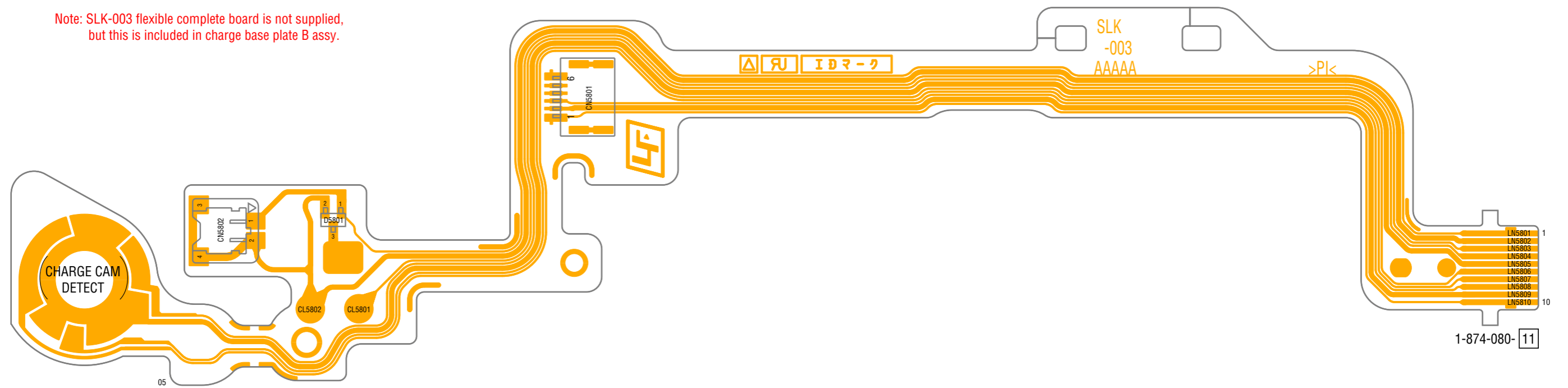
Note: AP-031 flexible complete board and all mounted parts are not supplied, but they are included in aperture unit.



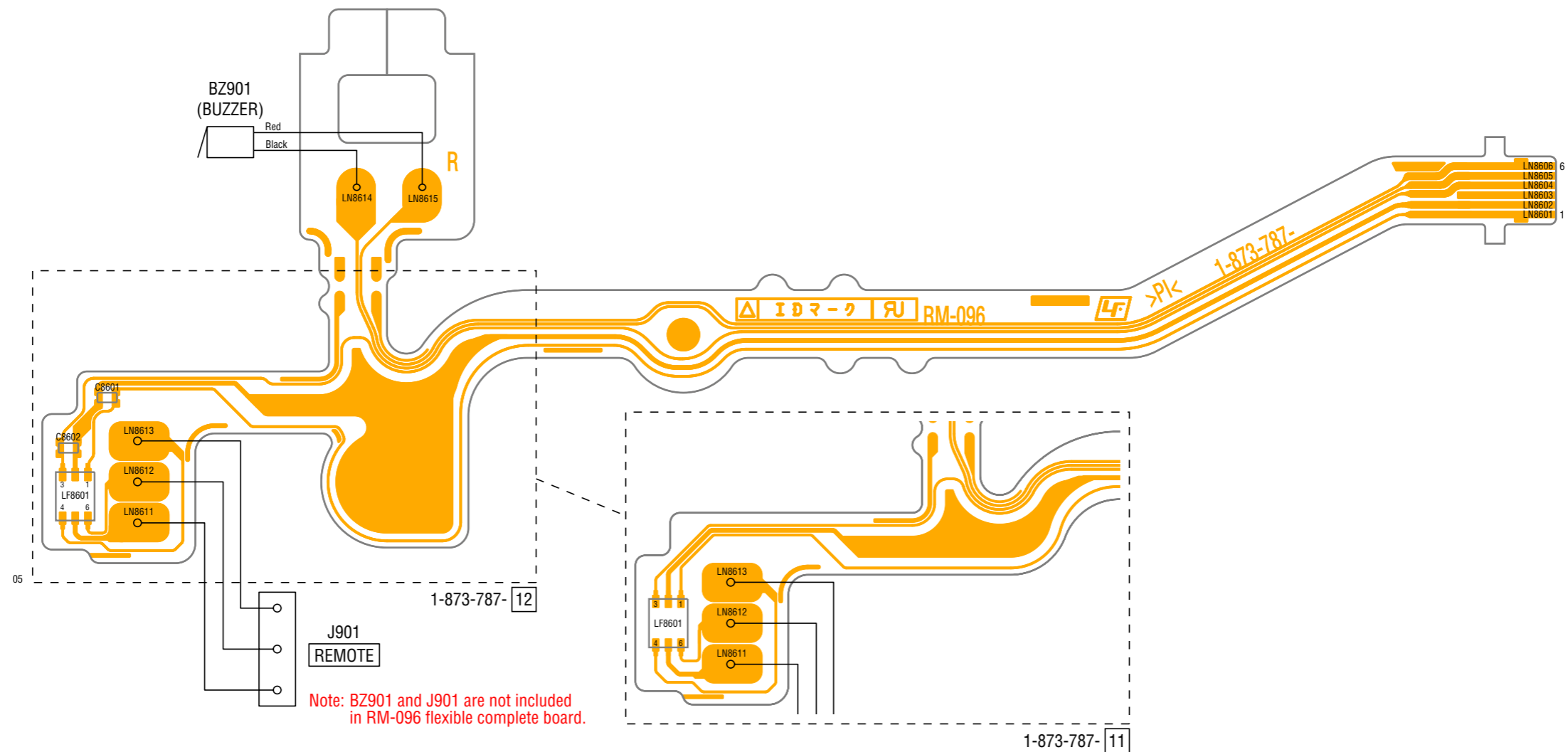
 : Uses unleaded solder.

SLK-003 FLEXIBLE BOARD

Note: SLK-003 flexible complete board is not supplied, but this is included in charge base plate B Assy.



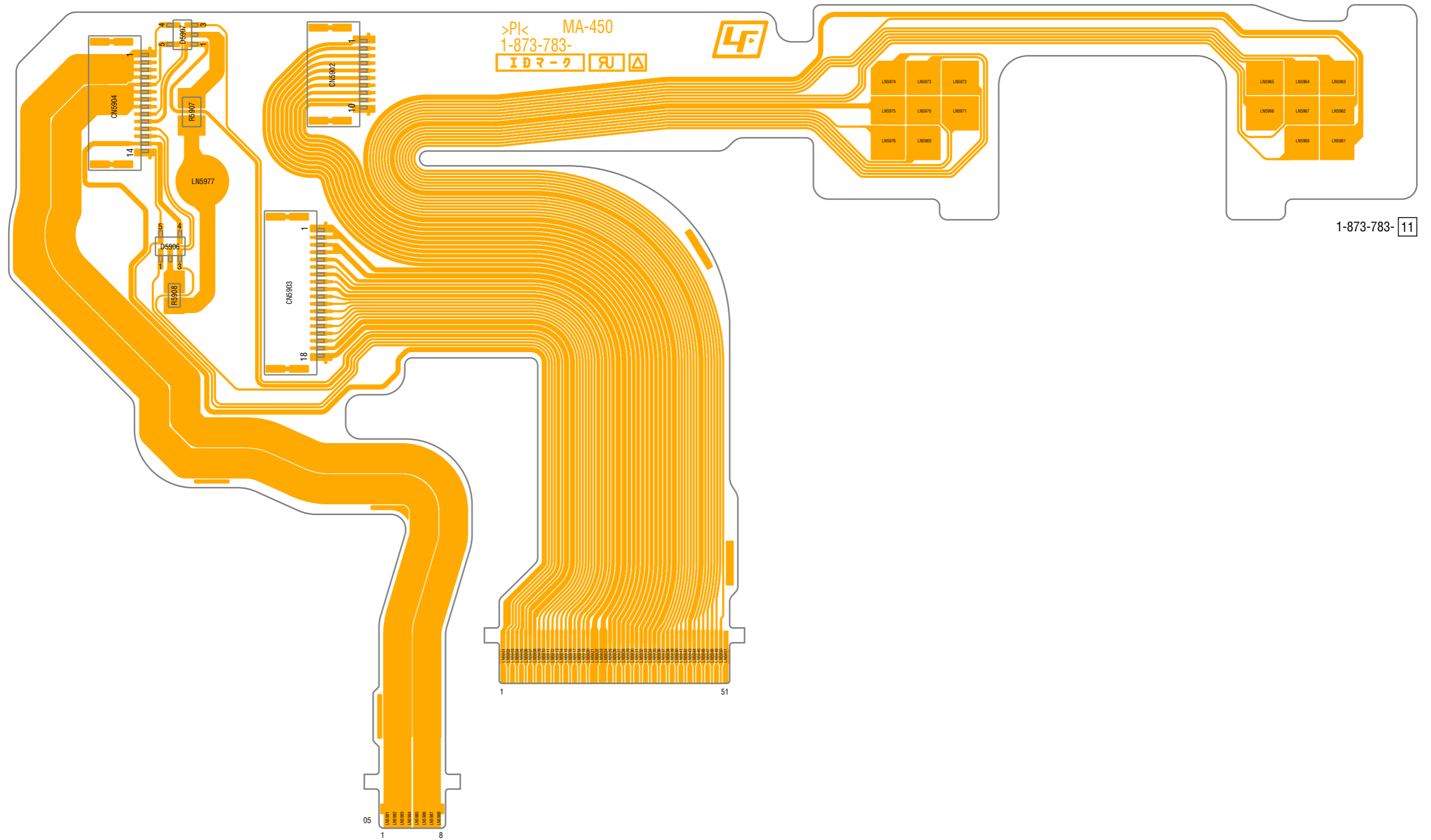
RM-096 FLEXIBLE BOARD



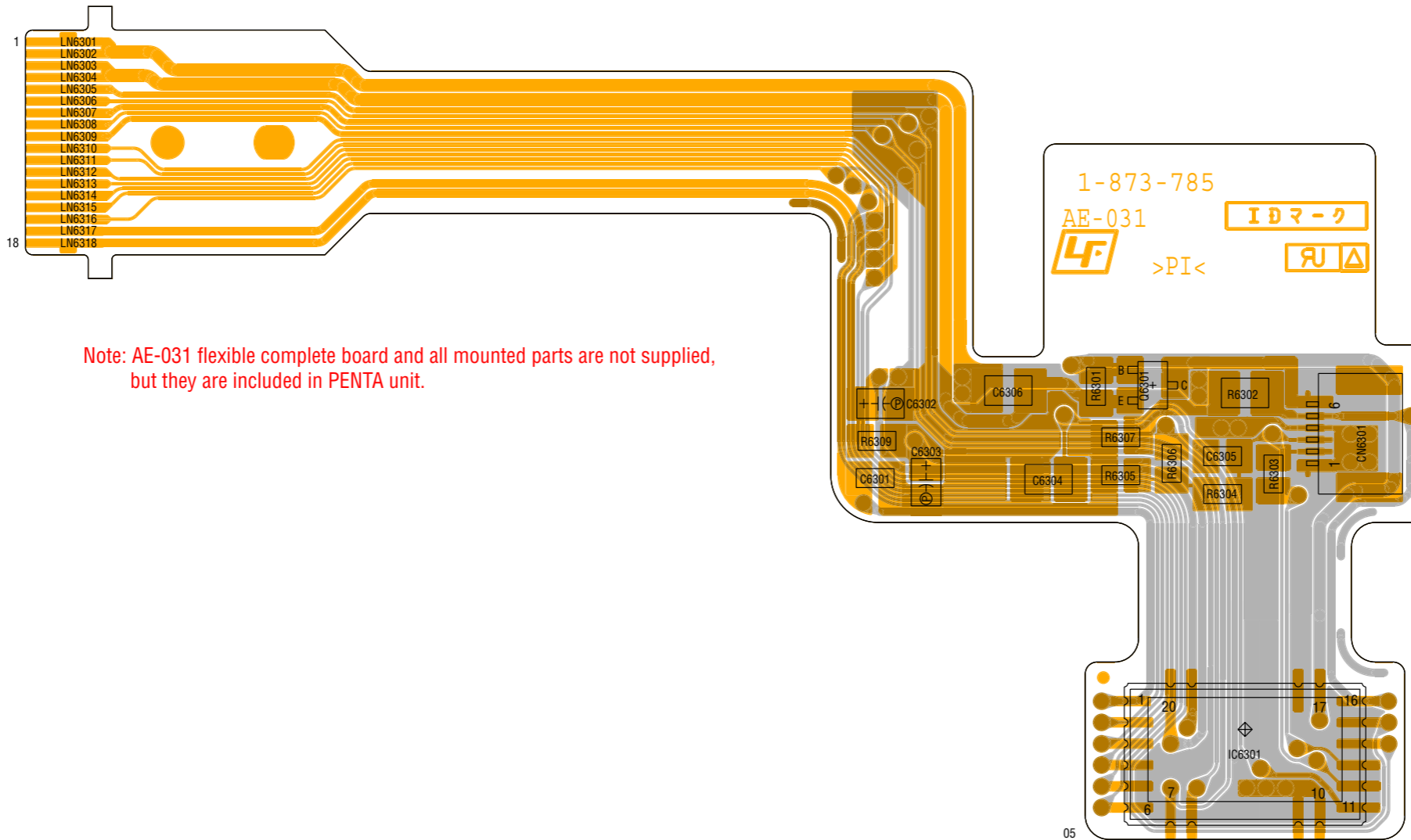
MA-450 (1 layer)

 : Uses unleaded solder.

MA-450 FLEXIBLE BOARD



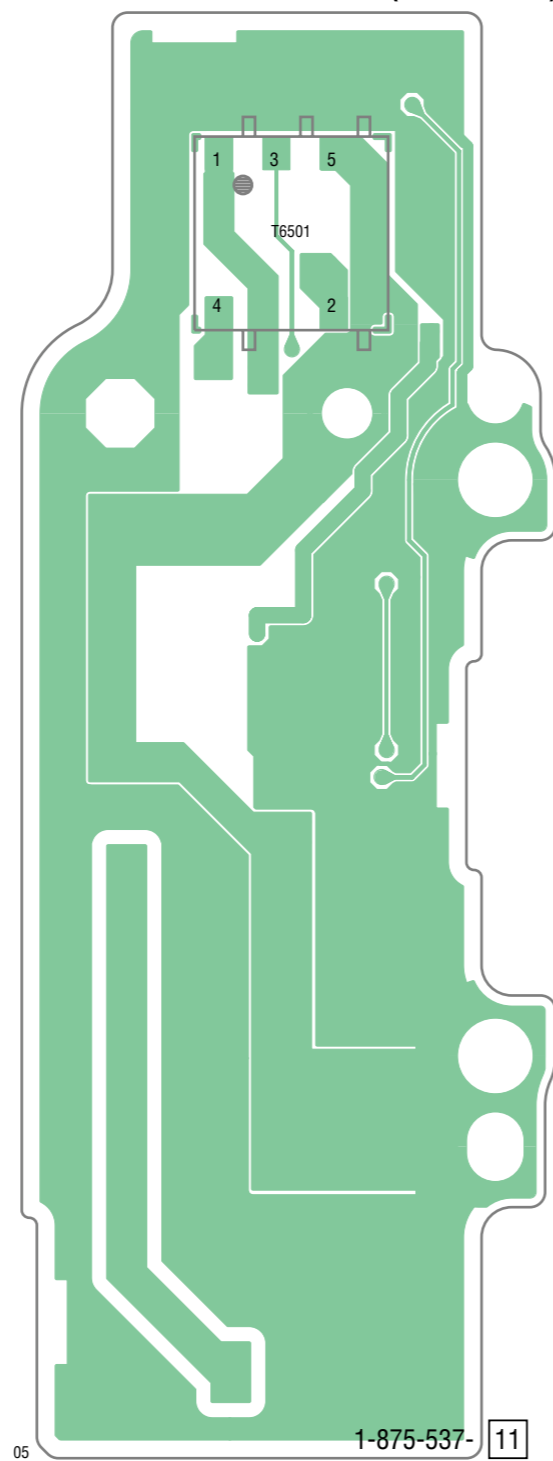
AE-031 FLEXIBLE BOARD



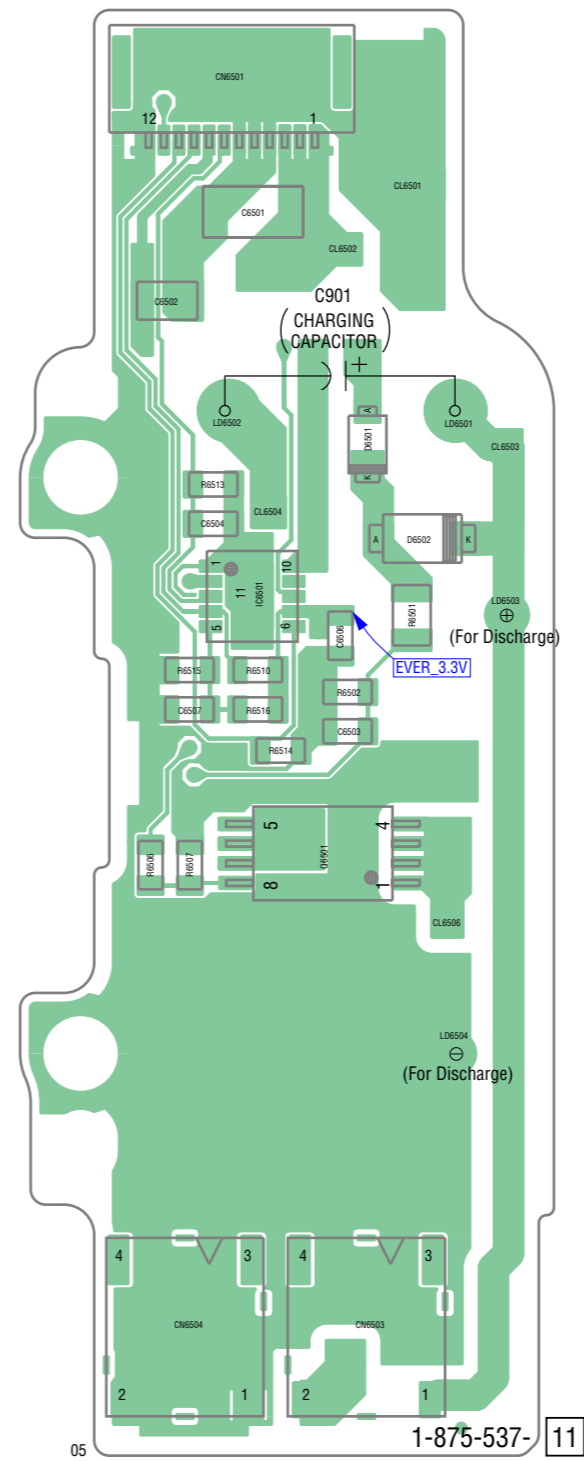
Note: AE-031 flexible complete board and all mounted parts are not supplied, but they are included in PENTA unit.

1-873-785-11

ST-196 BOARD (SIDE A)

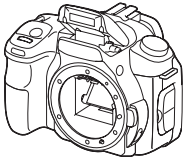
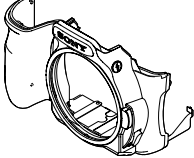
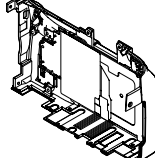
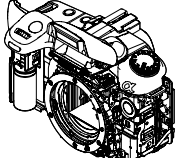
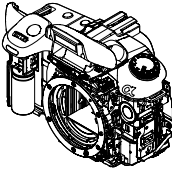
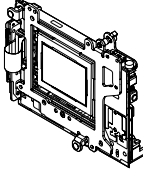
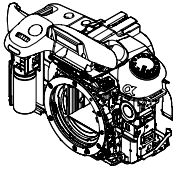
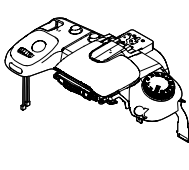
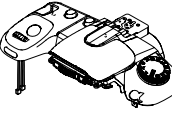
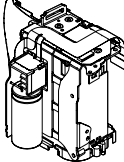
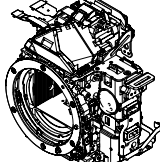
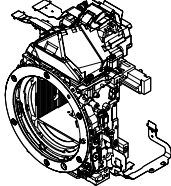
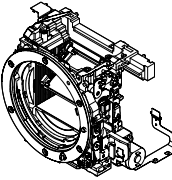
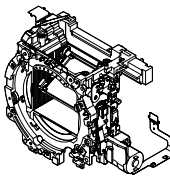


ST-196 BOARD (SIDE B)



5. REPAIR PARTS LIST

NOTE: Characters **A** to **Z** of the electrical parts list indicate location of exploded views in which the desired part is shown.

Link	EXPLODED VIEWS		
 A	 B	 C	 D
OVERALL SECTION	FRONT COVER SECTION	REAR COVER SECTION	MAIN BOARD SECTION
 E	 F	 G	 H
SHUTTER UNIT SECTION	TEBURE UNIT SECTION	BOTTOM FRAME SECTION	TOP COVER SECTION
 I	 J	 K	 L
FLASH UNIT SECTION	BATTERY HOLDER SECTION	TERMINAL HOLDER SECTION	MIRROR BOX SECTION (PENTA UNIT)
 M	 N		
MIRROR BOX SECTION (SUB UNIT-1)	MIRROR BOX SECTION (SUB UNIT-2)		

Link	ELECTRICAL PARTS LIST		ACCESSORIES
• GY-008 FLEXIBLE BOARD J	• MA-450 FLEXIBLE BOARD J	• ST-196 BOARD J	
• IS-026 BOARD F	• MM-076 BOARD D		
• LF-056 FLEXIBLE BOARD C	• RM-096 FLEXIBLE BOARD K		

5. REPAIR PARTS LIST

5. REPAIR PARTS LIST

(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.
- CAPACITORS:
uF: μ F
- COILS
uH: μ H
- 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...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...

(JAPANESE)

【使用上の注意】

- 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。
- -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。
- コンデンサの単位でuFは μ F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 μ Hを示します。
- 半導体の名称でuA..., uPA..., uPB..., uPC..., uPD...等はそれぞれ μ A..., μ PA..., μ PB..., μ PC..., μ PD...を示します。

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

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

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

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

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。

\triangle 印の部品、または \triangle 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。

- 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。

- Abbreviation
AR : Argentine model
AUS : Australian model
BR : Brazilian model
CH : Chinese model
CND : Canadian model
EE : East European model
HK : Hong Kong model
J : Japanese model
JE : Tourist model
KR : Korea model
NE : North European model

5. REPAIR PARTS LIST

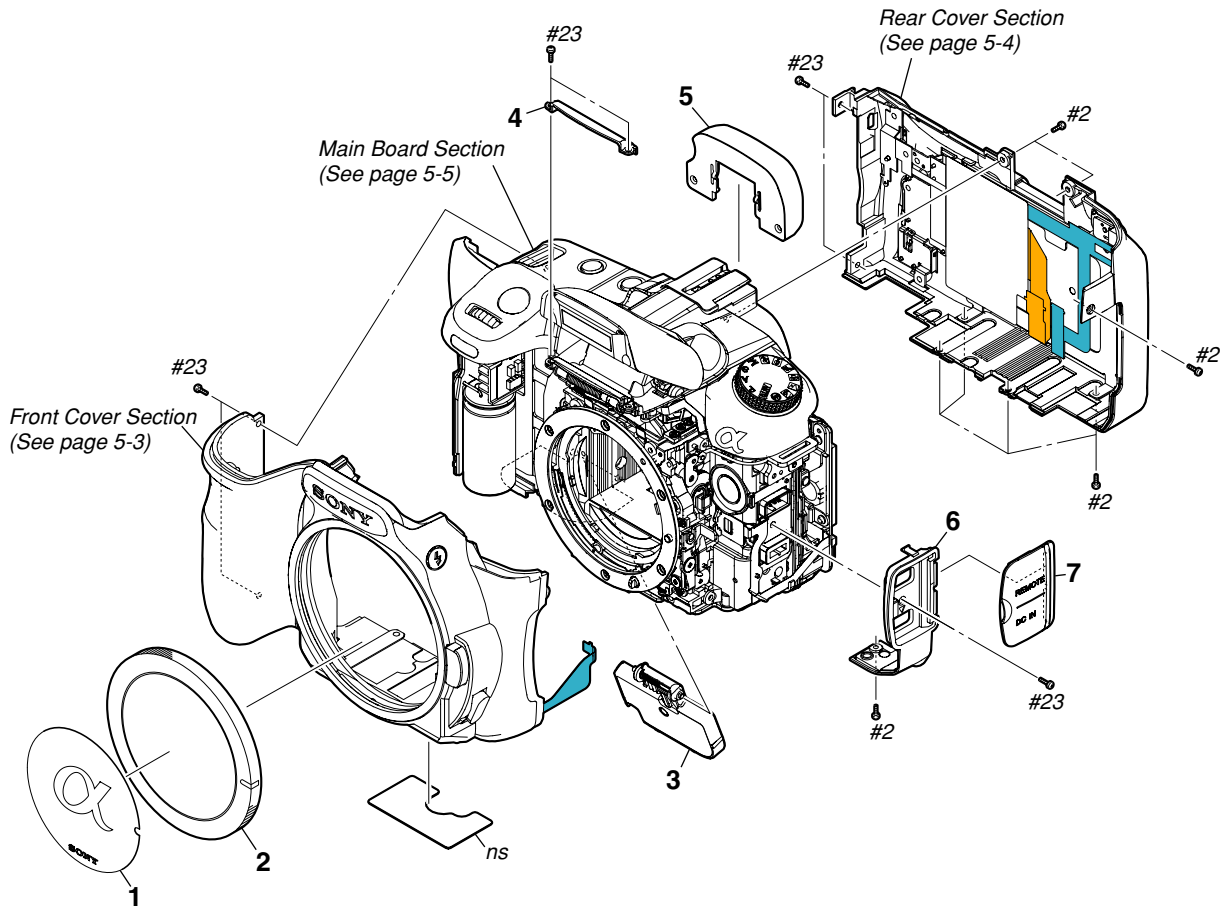
DISASSEMBLY

HARDWARE LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL SECTION

ns: not supplied



Ref. No.	Part No.	Description
1	2-894-387-01	SEAL, BODY CAP
2	2-688-728-01	CAP, BODY
3	X-2187-837-1	BD BATTERY CASE LID ASSY
4	3-282-855-01	ST STROBOSCOPE ARM COVER
5	X-2187-839-1	CV EYE HOOD ASSY

Ref. No.	Part No.	Description
* 6	3-282-749-01	BD SIDE COVER (L)
7	3-282-750-01	BC DC-REMOTE LID
#2	2-635-562-31	SCREW (M1.7) (Black)
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)

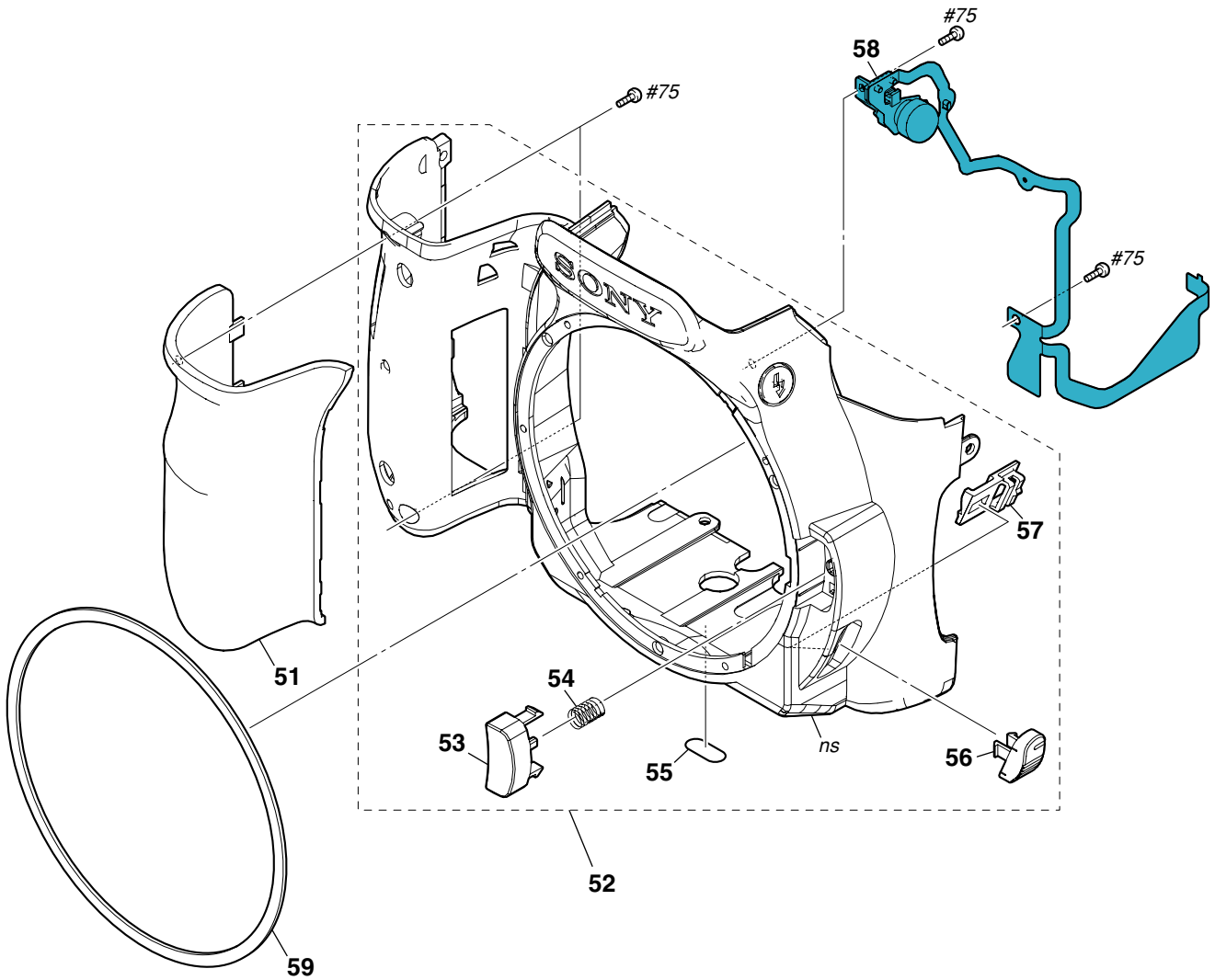
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-2. FRONT COVER SECTION

ns: not supplied



Ref. No.	Part No.	Description
51	3-282-778-01	CV GRIP COVER 627
52	X-2187-840-2	CV FRONT COVER ASSY
53	3-282-781-02	CT LENS LOCK BUTTON
* 54	3-282-782-01	CT LENS LOCK SPRING
55	3-282-787-01	RUBBER FOOT

Ref. No.	Part No.	Description
56	3-282-783-01	CT FOCUS SELECTION KNOB
* 57	3-282-784-01	CT FC CLICK PLATE
58	1-480-472-11	SWITCH BLOCK, CONTROL (FS62700)
59	X-2187-835-1	CV DECORATION COVER ASSY
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)

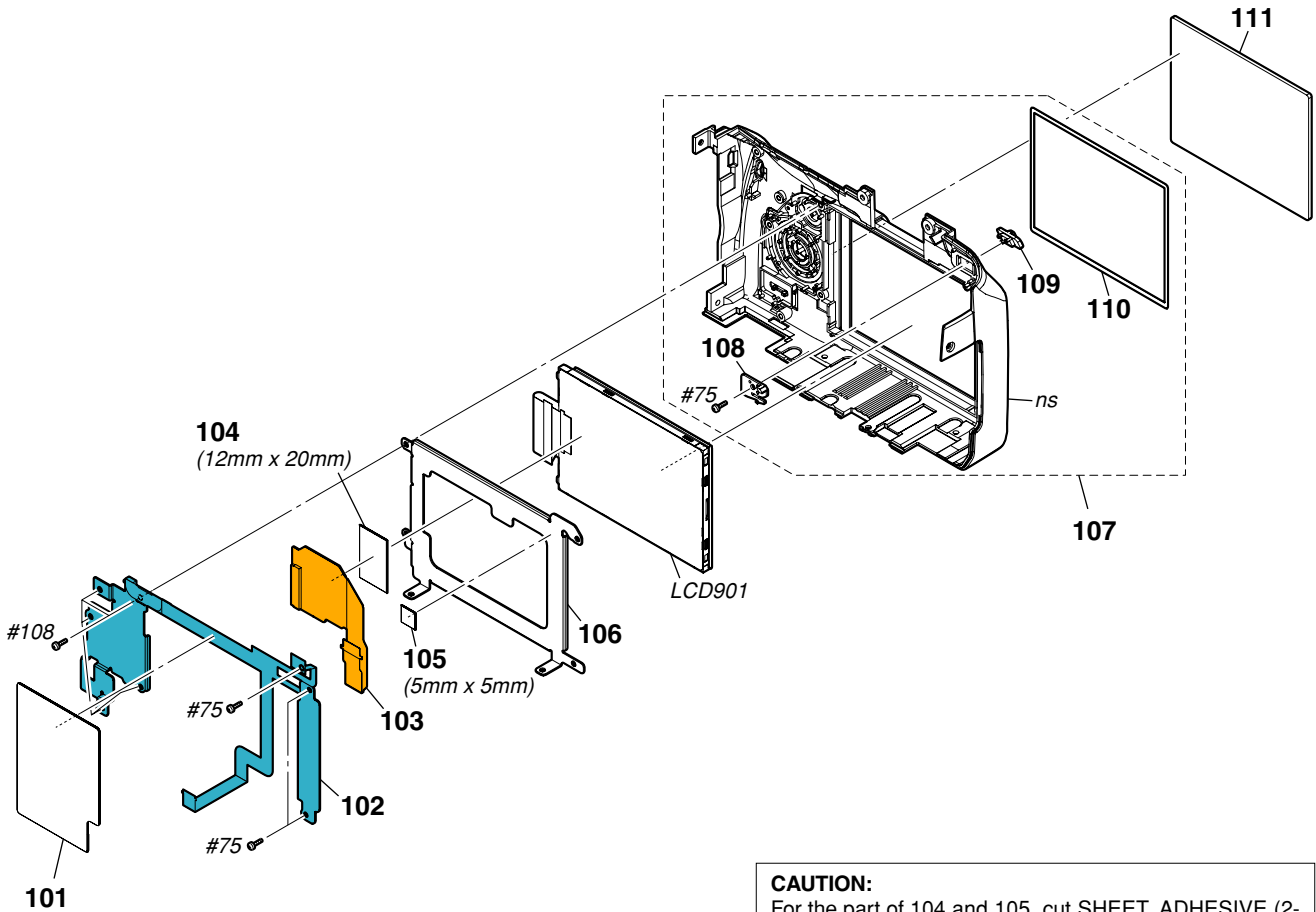
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-3. REAR COVER SECTION

ns: not supplied



CAUTION:
For the part of 104 and 105, cut SHEET, ADHESIVE (2-649-300-01) into the desired length and use it.

CAUTION:
104番, 105番は, 接着紙(2-649-300-01)を切って使用。

Ref. No.	Part No.	Description
* 101	3-282-797-01	CV FUSE CHANGE CAUTION LABEL
102	1-480-473-11	SWITCH BLOCK, CONTROL (RS62700)
103	A-1437-496-A	LF-056 FLEXIBLE BOARD, COMPLETE
104	CAUTION	CV FPC TAPE
105	CAUTION	CV FPC TAPE C
* 106	3-282-796-01	CV LCD WINDOW FIXED PLATE
107	X-2187-841-1	CV REAR COVER (627) ASSY

Ref. No.	Part No.	Description
* 108	3-282-805-01	CT MAIN SW CLICK PLATE
109	3-282-804-01	CT MAIN SW KNOB
110	3-282-806-01	CV LCD TAPE 627
111	3-282-795-01	CV LCD WINDOW 627
LCD901	1-802-570-11	LCD MODULE (A027DN01 V1)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)
#108	2-695-430-01	SCREW (T1.7), HEAD PAN TAPPING (Black)

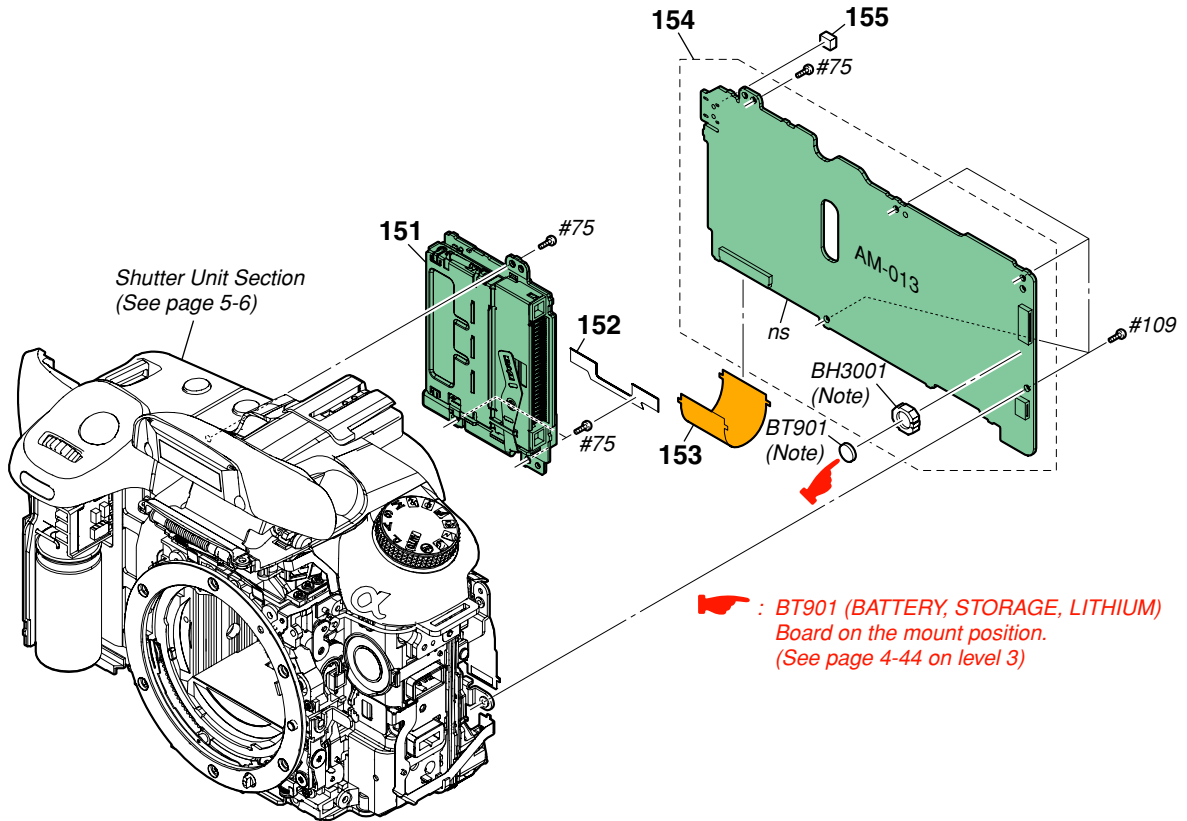
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-4. MAIN BOARD SECTION

ns: not supplied



CAUTION
 Danger of explosion if battery is incorrectly replaced.
 Replace only with the same or equivalent type.

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。

Note: Replace the battery holder (BH3001) together when replacing the lithium battery (BT901) on the AM-013 board. (The battery holder removed once cannot be used again.)
 When mounting these parts, mount new battery holder first and attach new lithium battery next.

Note: AM-013基板のリチウム電池 (BT901) を交換する場合はバッテリーホルダ (BH3001) も同時に新品に交換してください。(一度使用したバッテリーホルダは再使用できません。)
 部品取り付けの際は、先にバッテリーホルダを取り付けてからリチウム電池を装着してください。

• Refer to page 5-1 for mark △.

Ref. No.	Part No.	Description
151	A-1437-495-A	MM-076 BOARD, COMPLETE
* 152	3-290-170-01	PC BOARD ELECTROSTATIC SHEET
153	1-873-780-11	MM-078 FLEXIBLE BOARD
154	A-1437-664-A	AM-013 BOARD, COMPLETE (SERVICE)
* 155	3-282-823-01	JB LED SHADING SHEET

Ref. No.	Part No.	Description
△ BH3001	1-756-615-41	HOLDER, BATTERY (Note)
△ BT901	1-756-134-12	BATTERY, STORAGE, LITHIUM (Note)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)
#109	2-515-483-21	SCREW (M1.7), LOCK ACE, P2 (Black)

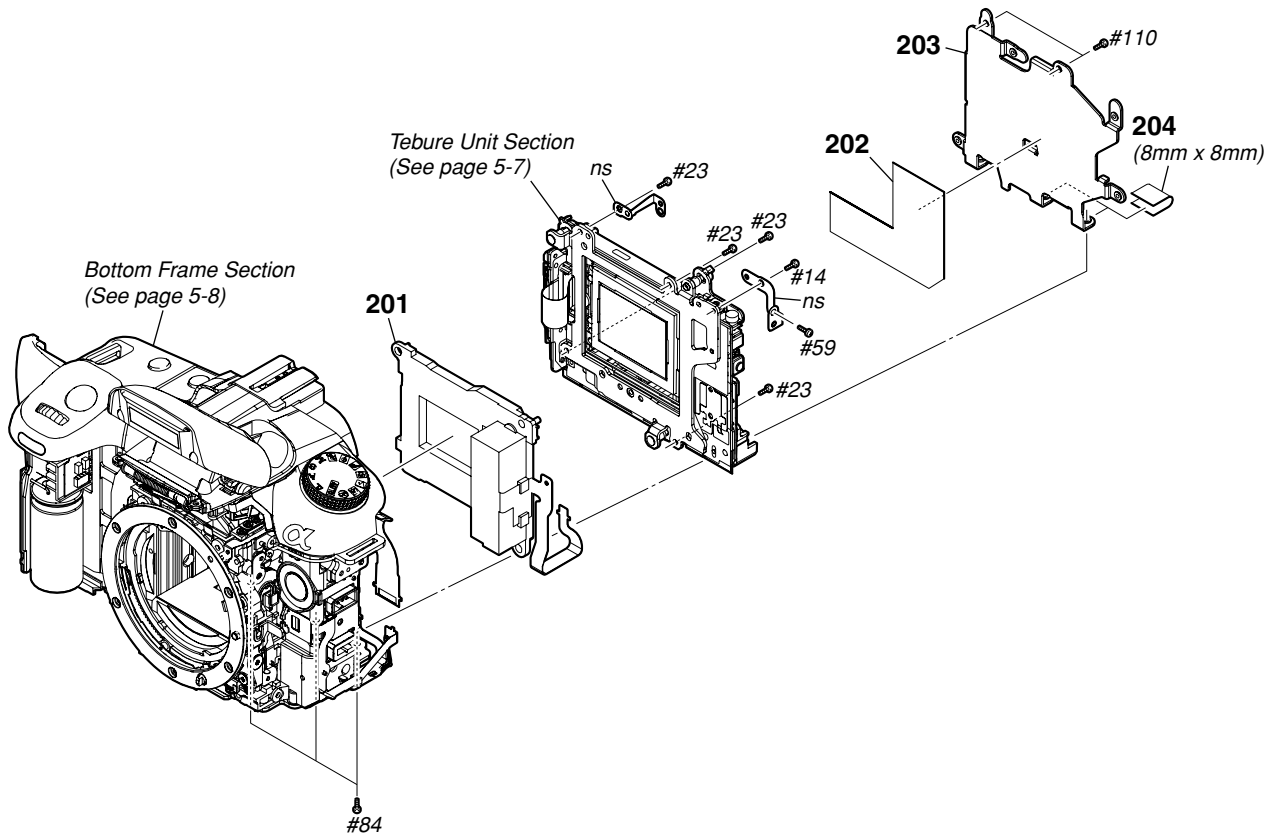
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-5. SHUTTER UNIT SECTION

ns: not supplied



CAUTION:
For the part of 204, cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

CAUTION:
204番は、T0.25ヒメロン(3-076-631-01)を切って使用。

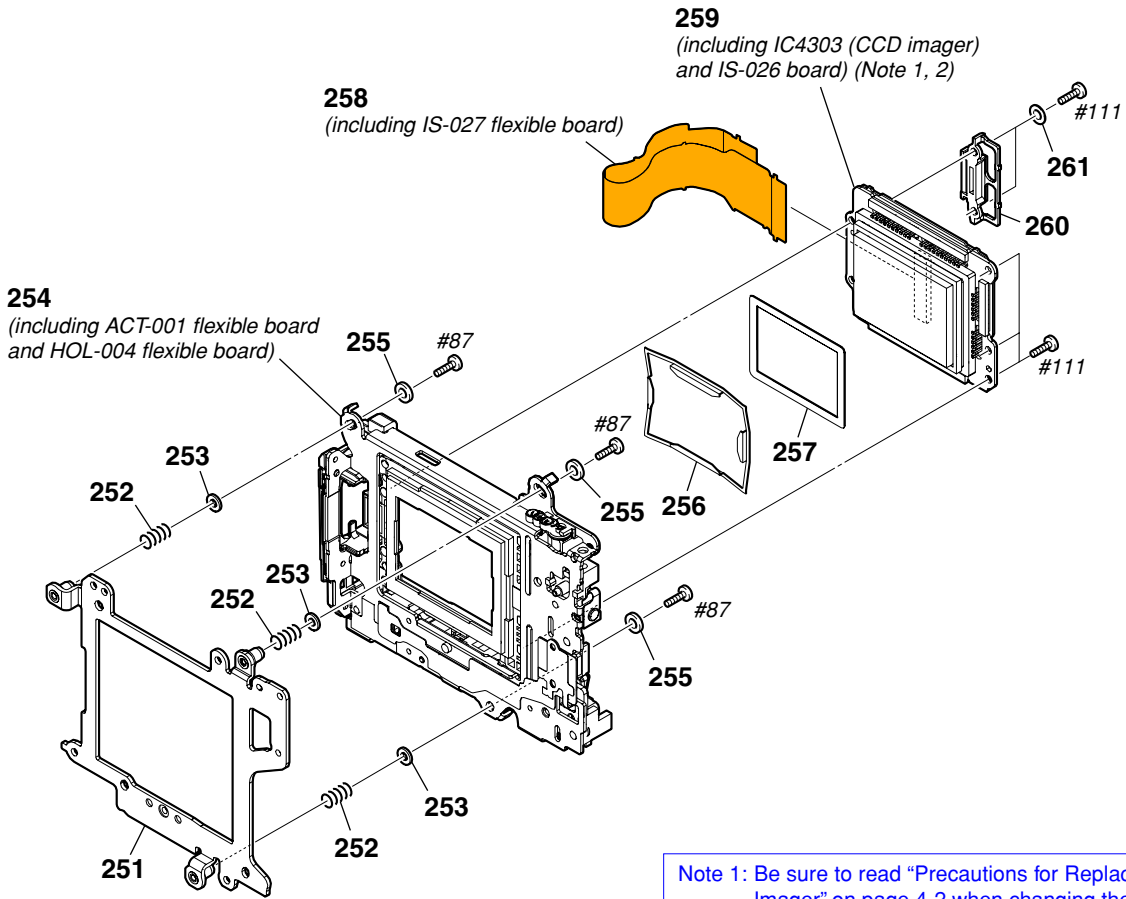
Ref. No.	Part No.	Description
201	1-480-486-11	SHUTTER UNIT
* 202	3-282-825-01	BD MAIN FRAME SHIELD SHEET
* 203	3-282-826-01	BD MAIN FRAME
204	CAUTION	BD VTN INSULATING TAPE
#14	2-599-475-11	SCREW (M1.7) (Silver)

Ref. No.	Part No.	Description
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#59	3-080-205-21	SCREW, TAPPING, P2 (Silver)
#84	3-072-453-11	O PLATE +P2 MAIN M2EG GRIP (Silver)
#110	2-630-005-21	SCREW (M2), NEW TRUSTER, P2 (Black)

5. REPAIR PARTS LIST

HARDWARE LIST

5-1-6. TEBURE UNIT SECTION



Note 1: Be sure to read "Precautions for Replacement of Imager" on page 4-2 when changing the imager.

Note 1: イメージャの交換時は4-3ページの「イメージャ交換時の注意」を必ずお読みください。

Note 2: Refer to "2-11. CLEANING PROCEDURE OF OLPF" on page 2-23 for method of cleaning the OLPF.

Note 2: OLPFの清掃方法は2-23ページの「2-11. CLEANING PROCEDURE OF OLPF」を参照してください。

Ref. No.	Part No.	Description
251	X-2179-727-1	UNIT, MAIN PLATE
252	2-693-427-01	ADJUSTMENT (SP), CCD AO
253	2-689-331-01	WASHER, AO ADJUSTMENT SHAFT
254	A-1376-336-A	SLIDER UNIT (FOR SERVICE) (including ACT-001 flexible board and HOL-004 flexible board)
255	3-292-847-01	WASHER
256	3-283-501-01	PLATE, LOWPASS, RETAINER
257	2-689-329-01	SHEET, LOW PASS FILTER MASK

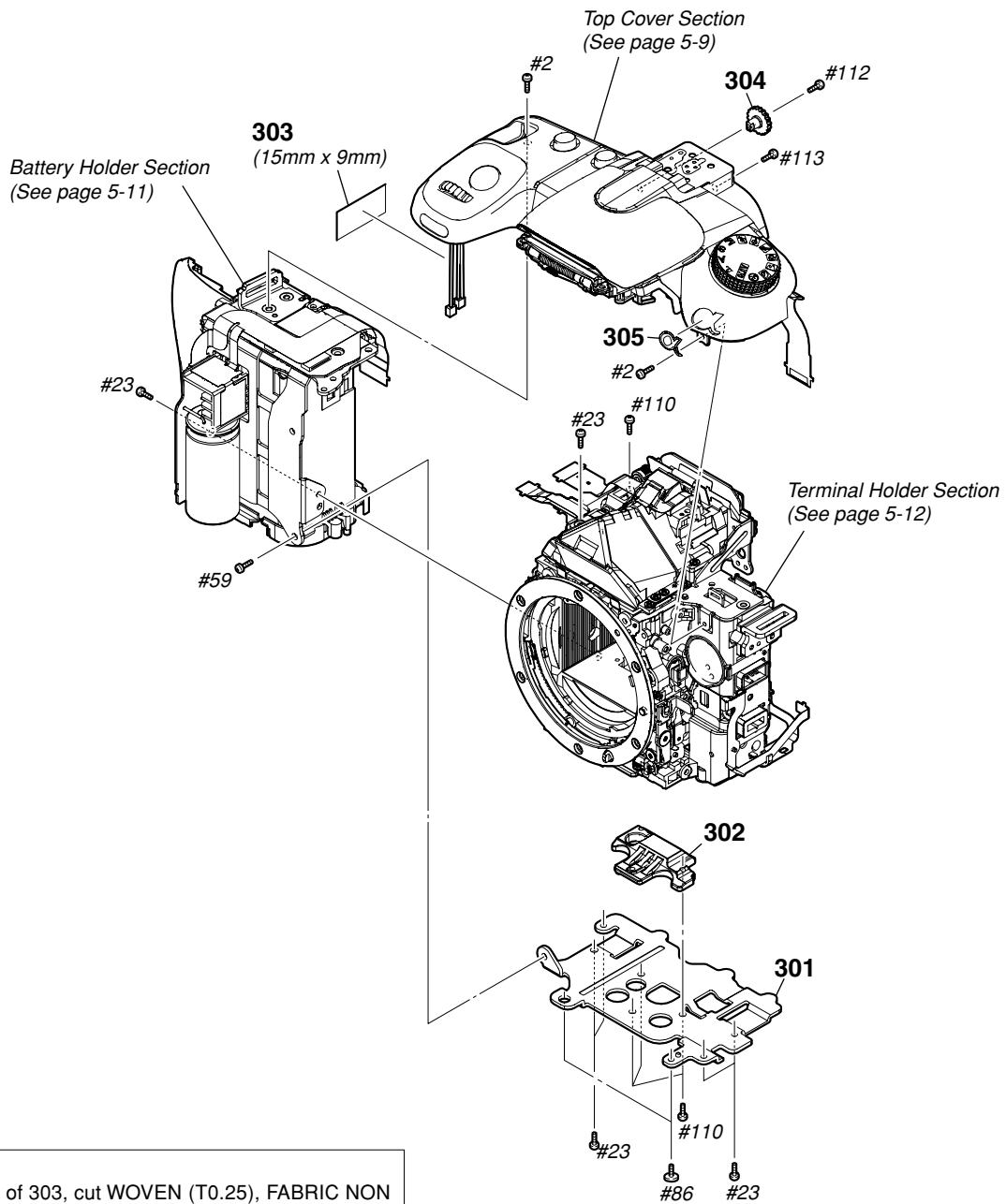
Ref. No.	Part No.	Description
258	A-1382-345-A	UNIT, IS FLEXIBLE (including IS-027 flexible board)
259	A-1382-347-A	CCD ASSY 627 (including IC4303 (CCD imager) and IS-026 board) (Note 1, 2)
260	3-279-624-01	HOLDER, FPC
261	3-279-625-01	SPACER
#87	2-689-328-01	SCREW, CCD AO ADJUSTMENT (Black)
#111	2-887-124-01	TAPPING SCREW 1.7 (Black)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-7. BOTTOM FRAME SECTION



CAUTION:
For the part of 303, cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

CAUTION:
303番は、T0.25ヒメロン(3-076-631-01)を切って使用。

Ref. No.	Part No.	Description
* 301	3-282-818-01	BD BOTTOM FRAME
302	3-282-819-01	BD TRIPOD
303	CAUTION	TAPE (W)
304	3-282-741-01	VM DIOPTER ADJUST KNOB
305	3-282-742-01	LOGO EMBLEM
#2	2-635-562-31	SCREW (M1.7) (Black)

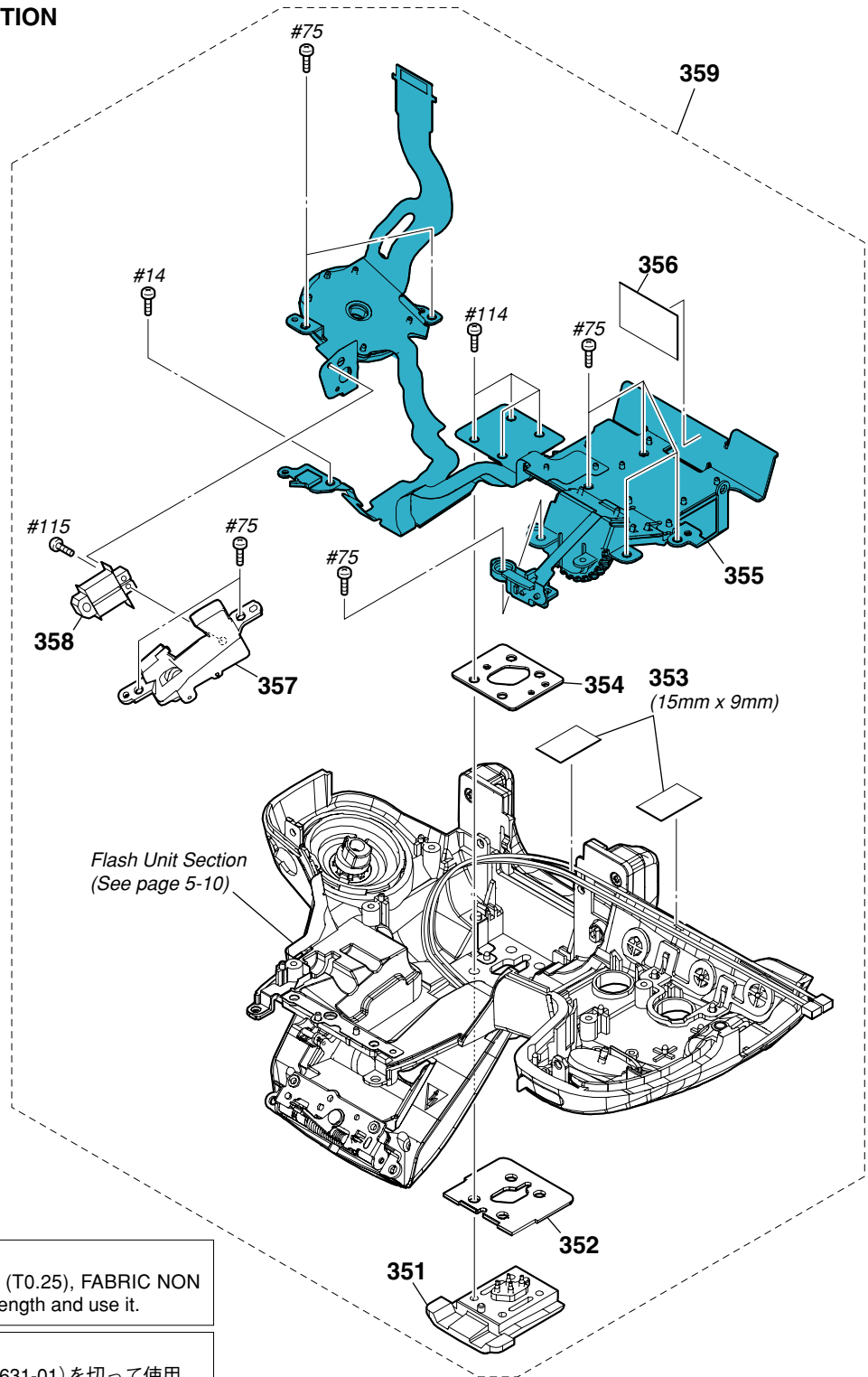
Ref. No.	Part No.	Description
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#59	3-080-205-21	SCREW, TAPPING, P2 (Silver)
#86	2-695-434-21	SCREW (T1.7), HEAD PAN TAPPING (Silver)
#110	2-630-005-21	SCREW (M2), NEW TRUSTER, P2 (Black)
#112	2-178-410-11	TITE (UB TITE) 1.4 (Black)
#113	2-635-562-41	SCREW (M1.7) (Black)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-8. TOP COVER SECTION



CAUTION:
For the part of 353, cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

CAUTION:
353番は、T0.25ヒメロン(3-076-631-01)を切って使用。

Ref. No.	Part No.	Description
351	X-2179-803-1	SHOE ASSY, ACCESSORY
* 352	3-282-828-01	ST SHOE BOARD
353	CAUTION	TAPE (W)
* 354	3-282-827-01	ST SHOE PLATE
355	1-480-471-11	SWITCH BLOCK, CONTROL (TK62700)
* 356	3-291-221-01	CV REAR FLEX INSULATING SHEET
357	X-2187-846-2	ST STROBOSCOPE LOCK ASSY

Ref. No.	Part No.	Description
358	1-455-061-11	SOLENOID, PLUNGER
359	A-1437-519-A	COVER BLOCK ASSY, TOP
#14	2-599-475-11	SCREW (M1.7) (Silver)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)
#114	2-698-464-01	TAPPING SCREW PHI 2 (Silver)
#115	3-348-998-51	SCREW (M1.4X3.5), TAPPING, PAN (Silver)

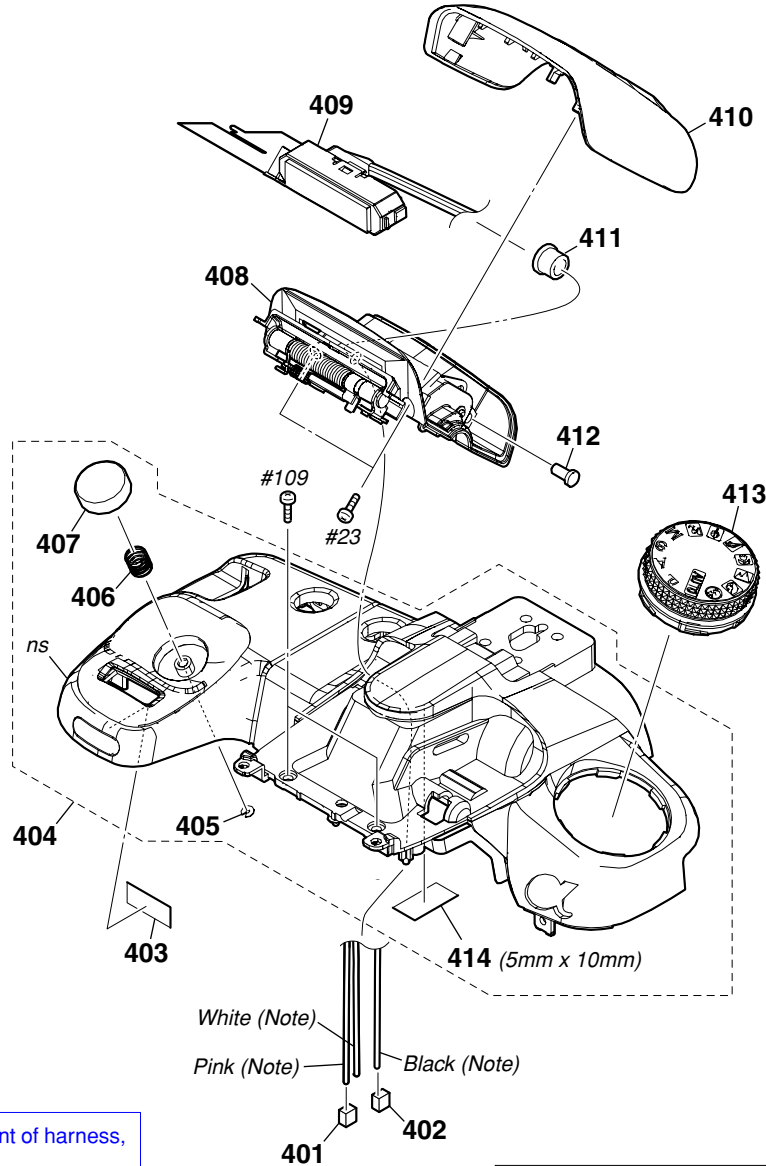
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-9. FLASH UNIT SECTION

ns: not supplied



Note: About the arrangement of harness, refer to HELP 10.

Note: 配線についてはHELP10を参照してください。

CAUTION:
For the part of 414, cut SHEET, ADHESIVE (2-649-300-01) into the desired length and use it.

CAUTION:
414番は、接着紙(2-649-300-01)を切って使用。

• Refer to page 5-1 for mark △.

Ref. No.	Part No.	Description
401	1-820-649-11	HOUSING, CONNECTOR 2P (RED)
402	1-820-649-21	HOUSING, CONNECTOR 2P (YELLOW)
* 403	3-287-595-01	CV SELF LED ELECTROSTATIC S
404	X-2187-842-3	CV TOP COVER (627) ASSY
405	2-629-790-01	WASHER, NYLON
* 406	3-282-839-01	CT RELEASE SPRING
407	3-282-838-01	CT RELEASE BUTTON
408	X-2187-844-2	ST STROBOSCOPE BASE ASSY
△ 409	1-480-409-11	FLASH UNIT (FL62700)

Ref. No.	Part No.	Description
410	3-282-850-01	ST STROBOSCOPE COVER
* 411	3-282-851-01	ST SLIDE SHAFT A
* 412	3-282-852-01	ST SLIDE SHAFT (B)
413	X-2187-843-1	CT MODE DIAL ASSY
414	CAUTION	CV FPC TAPE B
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#109	2-515-483-21	SCREW (M1.7), LOCK ACE, P2 (Black)

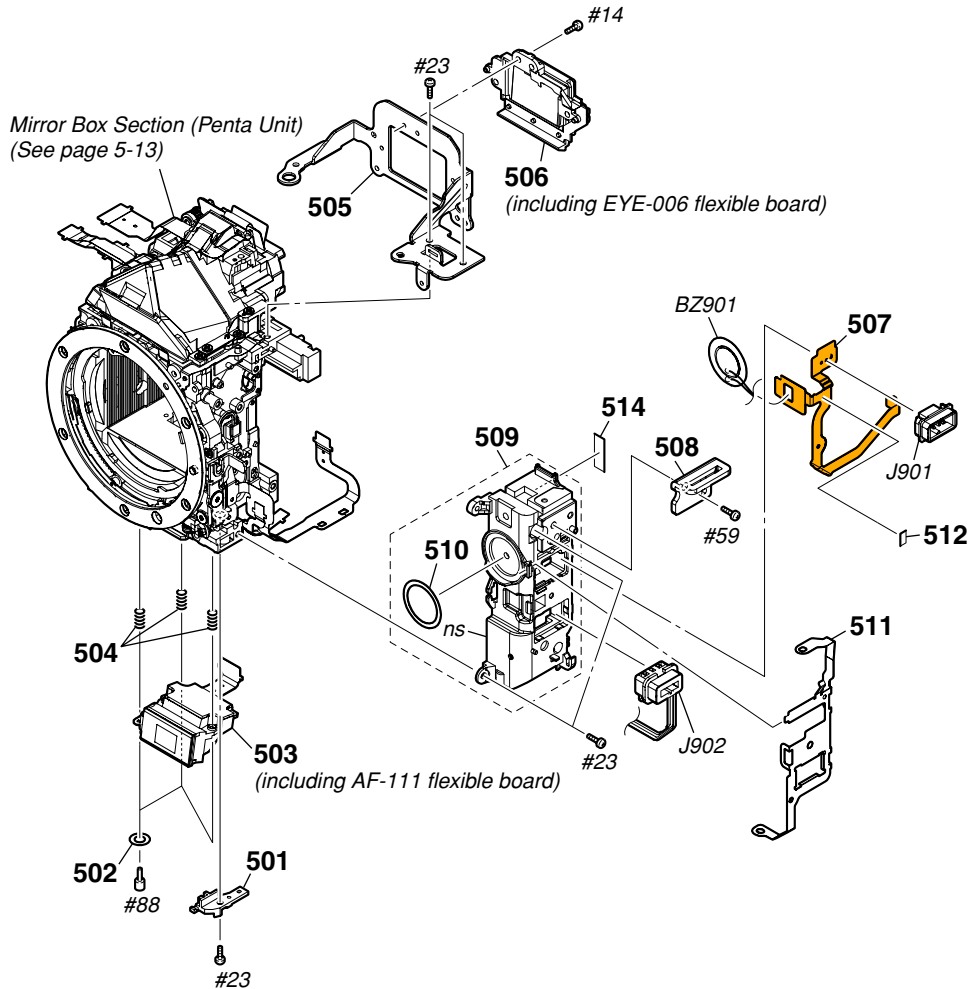
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-11. TERMINAL HOLDER SECTION

ns: not supplied



• Refer to page 5-1 for mark △.

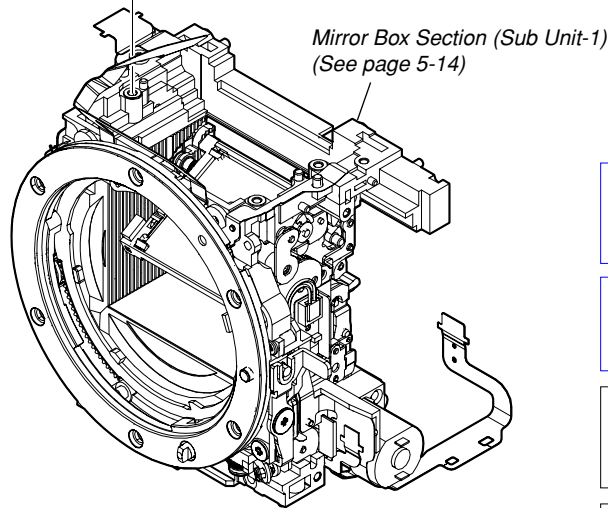
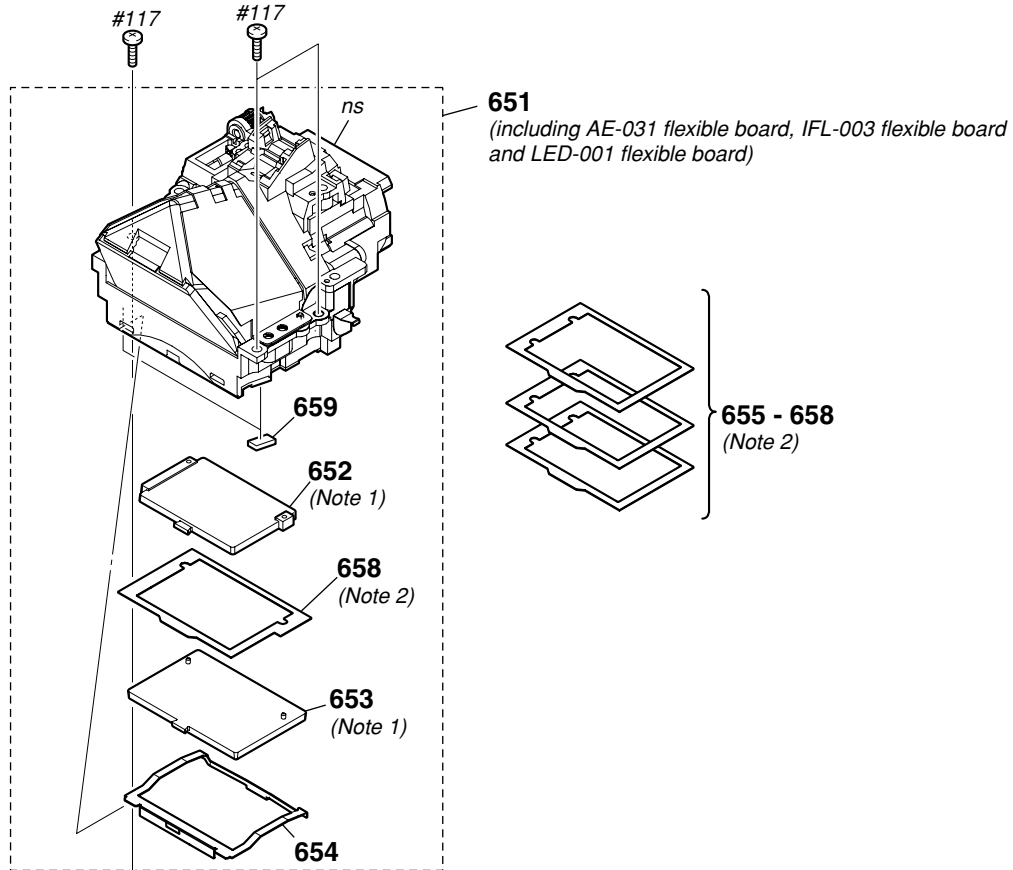
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
* 501	3-282-822-01	HOLDER, DCJ CABLE	* 511	3-282-882-01	BD TERMINAL RETAINER PLATE
502	2-688-865-01	WASHER, S ADJUSTMENT	* 512	3-282-751-01	BD SIDE COVER (L) SHEET
503	A-1317-238-A	ALX-6270 (AF MODULE) (including AF-111 flexible board)	* 514	3-298-583-01	BD TEBURE SPACER SHEET
504	2-693-420-01	SP, S ADJUSTMENT	BZ901	1-826-816-11	BUZZER, PIEZOELECTRIC
* 505	3-282-817-01	BD EYE PIECE FRAME	J901	1-480-041-11	REMOTE HOLDER (REMOTE)
506	A-1437-505-A	EYE PIECE FRAME UNIT (including EYE-006 flexible board)	△ J902	1-821-194-21	JACK, DC
507	A-1442-602-A	RM-096 FLEXIBLE BOARD, COMPLETE	#14	2-599-475-11	SCREW (M1.7) (Silver)
508	3-282-883-01	BD EYELET (L)	#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
* 509	X-2187-851-1	BD TERMINAL HOLDER ASSY	#59	3-080-205-21	SCREW, TAPPING, P2 (Silver)
510	3-282-873-01	BD BUZZER TAPE	#88	2-689-015-01	SCREW, S ADJUSTMENT (Silver)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-12. MIRROR BOX SECTION (PENTA UNIT)



Note 1: Refer to page 1-2 "1-5. METHOD OF EXCHANGING SI SCREEN AND FOCUS PLATE" when SI screen or focus plate are exchanged.

Note 1: SIスクリーンまたは焦点板を交換する際は、1-5ページの「1-5. SIスクリーン、焦点板の交換」を参照してください。

Note 2: These are spacers use to adjust thickness when Viewfinder Back Adjustment is done.
Adjusting Item: "Viewfinder Back Adj."

Note 2: ビューファインダーバック調整を行う際、厚さ調整のために使用するスペーサです。
調整項目: 「Viewfinder Back Adj.」

Ref. No.	Part No.	Description
651	A-1382-513-A	PENTA UNIT 627 (including AE-031 flexible board, IFL-003 flexible board and LED-001 flexible board)
652	A-1498-933-A	SI SCREEN (SERVICE) (Note 1)
653	A-1498-934-A	FORCUS PLATE (SERVICE) (Note 1)
654	3-279-665-01	VM FS RETAINER

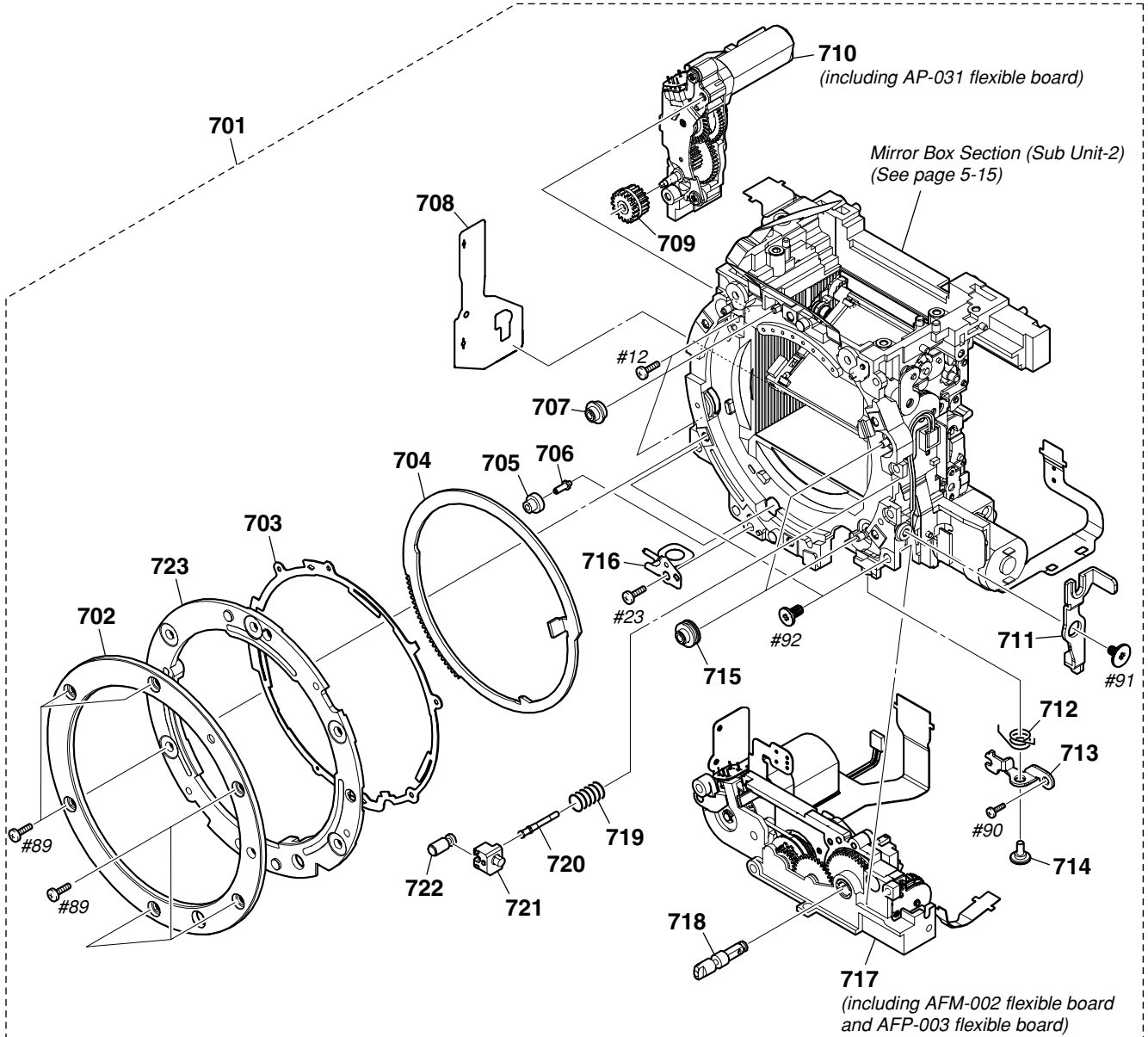
Ref. No.	Part No.	Description
655	2-689-369-01	SPACER (A), VB (T=0.05mm) (Note 2)
656	2-689-370-01	SPACER (B), VB (T=0.1mm) (Note 2)
657	2-689-371-01	SPACER (C), VB (T=0.15mm) (Note 2)
658	2-689-372-01	SPACER (D), VB (T=0.2mm) (Note 2)
659	3-279-666-01	CUSHION, MAIN MIRROR
#117	2-695-429-31	SCREW (T1.7), HEAD PAN TAPPING (Silver)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-13. MIRROR BOX SECTION (SUB UNIT-1)



Ref. No.	Part No.	Description
701	A-1382-393-A	SUB BLOCK ASSY, MIRROR BOX
702	2-689-021-01	MOUNT, H
703	2-689-198-01	RING (SP)
704	2-689-312-01	RING, IRIS
705	3-277-916-01	ROLLER (C), RING
706	3-268-951-01	SHAFT, RING ROLLER (C)
707	2-689-314-01	ROLLER (B), RING
* 708	3-268-957-01	SHEET, IRIS FPC PROTECTION
709	2-689-306-01	GEAR, IRIS JOINT
710	A-1317-689-A	APERTURE UNIT (including AP-031 flexible board)
711	3-268-940-01	LEVER, COUPLER
712	3-268-941-01	SP, COUPLER LEVER TENSION
713	3-268-942-01	LEVER, COUPLER JOINT
714	2-689-289-01	SHAFT, COUPLER LEVER
715	2-689-313-01	ROLLER (A), RING

Ref. No.	Part No.	Description
* 716	3-279-645-01	PLATE (LOWER), H MOUNT LUG
717	A-1382-446-A	AF DRIVING UNIT (including AFM-002 flexible board and AFP-003 flexible board)
718	X-2179-722-1	AF COUPLER ASSY
719	3-268-945-01	SP, LENS LOCK
720	3-268-943-01	PIN, LENS LOCK
721	3-268-944-01	HOLDER, LENS LOCK PIN
722	3-268-956-01	PIN, LENS LOCK GUIDE
723	2-688-792-01	SPACER, MOUNT
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#89	2-695-575-01	SCREW (T2), +P1 PAN TAPPING (Silver)
#90	3-271-395-01	SCREW (M1.7), LEVER ADJUSTMENT (Silver)
#91	2-695-434-11	SCREW (T1.7), HEAD PAN TAPPING (Silver)
#92	3-268-954-01	SCREW, AF BASE PLATE STOPPER (Black)

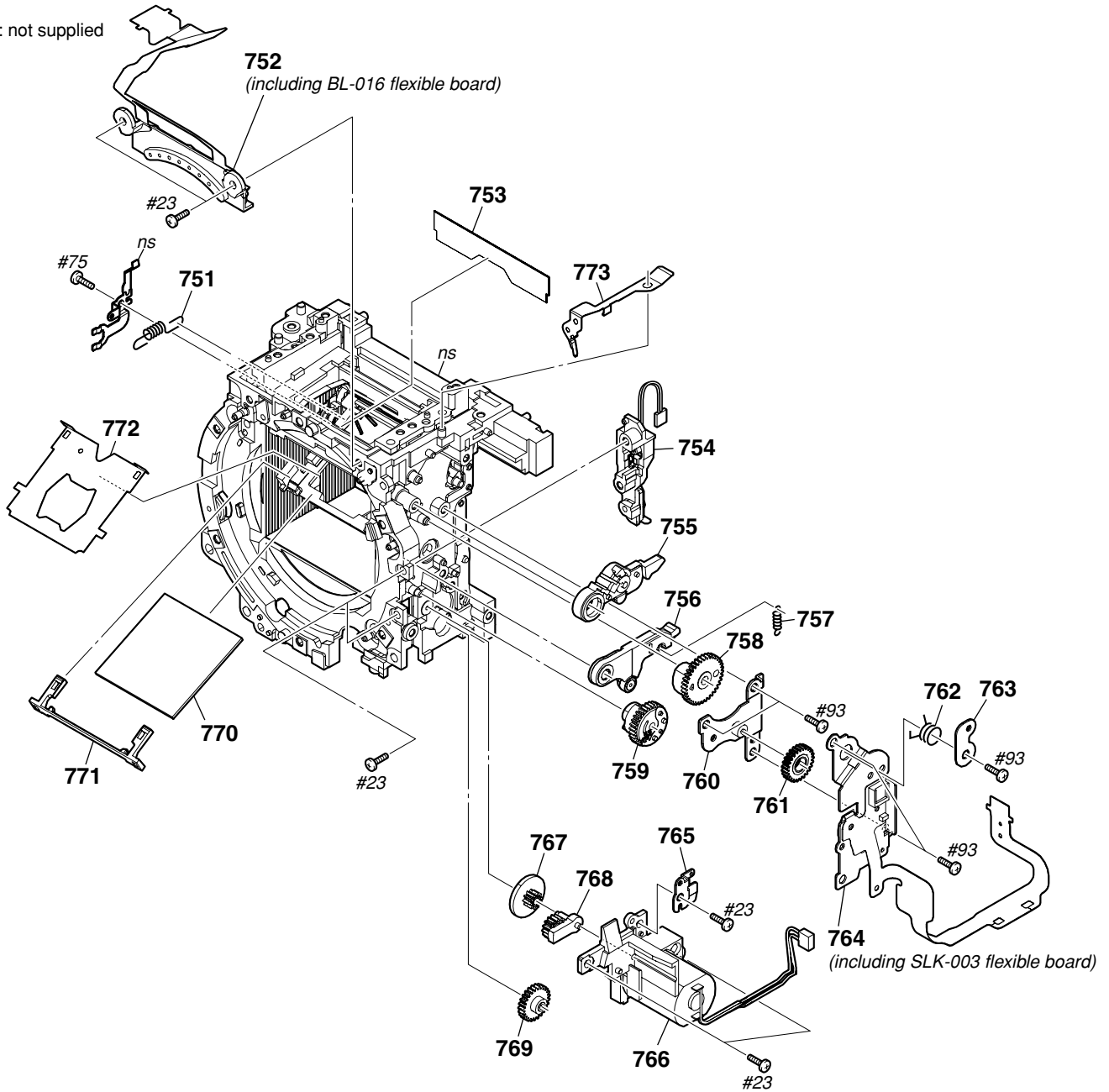
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-14. MIRROR BOX SECTION (SUB UNIT-2)

ns: not supplied



Ref. No.	Part No.	Description
751	3-268-935-01	SP, SUB MIRROR FUNCTION
752	A-1382-459-A	BL CONTACT HOLDER UNIT (including BL-016 flexible board)
753	3-279-649-01	SHEET, BL DUST PROTECT
754	A-1317-687-A	SLLK BASE PLATE UNIT
755	X-2179-717-1	MIRROR CHARGE LEVER ASSY
756	3-279-648-01	LEVER, SHUTTER CHARGE
757	3-268-931-01	SP, SHUTTER CHARGE LEVER
758	3-268-928-02	GEAR, MIRROR CHARGE CAM
759	X-2179-720-2	SHUTTER CAM GEAR ASSY
760	X-2179-719-1	CHARGE BASE PLATE C ASSY
761	3-268-927-02	GEAR, IDLE
762	3-268-929-01	DRIVING (SP), MIRROR
763	3-268-930-01	RETAINER, MIRROR DRIVING (SP)
764	X-2187-459-1	CHARGE BASE PLATE B ASSY (including SLK-003 flexible board)

Ref. No.	Part No.	Description
765	3-268-937-01	RETAINER, ADJUSTMENT PLATE
766	A-1382-460-A	CHARGE BASE PLATE A UNIT
767	3-279-642-01	GEAR, DECELERATION
768	X-2187-400-1	PLANET GEAR ASSY (6230)
769	3-268-926-11	GEAR, SUN
770	3-269-005-01	MAIN MIRROR
771	3-279-657-03	RETAINER, MAIN MIRROR
772	3-279-655-01	PLATE, AF MASK
* 773	3-279-644-01	PLATE (UPPER), H MOUNT LUG
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)
#93	3-254-082-01	SCREW (Silver)

Electrical parts list of the AM-013 board is not shown.
Page 5-16 to 5-22 is not shown.

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	A-1437-492-A	GY-008 FLEXIBLE BOARD, COMPLETE *****
		< CAPACITOR >
C6201	1-165-875-11	CERAMIC CHIP 10uF 10% 10V
C6202	1-165-875-11	CERAMIC CHIP 10uF 10% 10V
C6203	1-165-875-11	CERAMIC CHIP 10uF 10% 10V
C6204	1-165-875-11	CERAMIC CHIP 10uF 10% 10V
		< SENSOR >
SE6201	1-480-049-31	SENSOR, ANGULAR VELOCITY (PITCH)
SE6202	1-480-049-31	SENSOR, ANGULAR VELOCITY (YAW)
	A-1382-347-A	CCD ASSY 627 (Note)
	(Not supplied)	IS-026 BOARD, COMPLETE *****
		(IC4303 (CCD imager), IS-026 complete board and all mounted parts are not supplied, but they are included in CCD assy 627.)
		< IC >
IC4303	(Not supplied)	ICX493AQA-13 (CCD IMAGER) (Note)
	A-1437-496-A	LF-056 FLEXIBLE BOARD, COMPLETE *****
		< CAPACITOR >
C9401	1-100-742-91	CERAMIC CHIP 2.2uF 20% 10V
C9402	1-100-742-91	CERAMIC CHIP 2.2uF 20% 10V
C9403	1-112-021-91	CERAMIC CHIP 2.2uF 20% 16V
C9404	1-114-098-91	CERAMIC CHIP 2.2uF 20% 25V
C9405	1-100-743-91	CERAMIC CHIP 2.2uF 20% 16V
* C9406	1-112-746-11	CERAMIC CHIP 4.7uF 10% 6.3V
* C9407	1-112-746-11	CERAMIC CHIP 4.7uF 10% 6.3V
* C9408	1-112-746-11	CERAMIC CHIP 4.7uF 10% 6.3V
C9409	1-112-300-91	CERAMIC CHIP 4.7uF 10% 10V
C9410	1-100-670-11	CERAMIC CHIP 4.7uF 20% 16V
C9411	1-100-967-91	CERAMIC CHIP 4.7uF 20% 25V
C9412	1-100-967-91	CERAMIC CHIP 4.7uF 20% 25V
C9413	1-100-670-11	CERAMIC CHIP 4.7uF 20% 16V
C9414	1-112-300-91	CERAMIC CHIP 4.7uF 10% 10V
		< CONNECTOR >
* CN9401	1-821-202-71	CONNECTOR, FPC (ZIF) 45P
		< FERRITE BEAD >
FB9401	1-414-864-11	FERRITE, EMI (SMD) (1608)
		< RESISTOR >
R9401	1-216-864-11	SHORT CHIP 0
R9402	1-216-864-11	SHORT CHIP 0
R9403	1-216-864-11	SHORT CHIP 0

Ref. No.	Part No.	Description
	A-1442-603-A	MA-450 FLEXIBLE BOARD, COMPLETE *****
		< CONNECTOR >
* CN5902	1-816-643-51	FFC/FPC CONNECTOR (LIF) 10P
* CN5903	1-816-647-51	FFC/FPC CONNECTOR (LIF) 18P
* CN5904	1-816-645-51	FFC/FPC CONNECTOR (LIF) 14P
	A-1437-495-A	MM-076 BOARD, COMPLETE *****
		< CAPACITOR >
C5202	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C5203	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C5205	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
		< CONNECTOR >
* CN5201	1-820-857-71	CONNECTOR, FPC (ZIF) 51P
CN5202	1-818-139-11	PIN, CONNECTOR (CF CARD)
* CN5203	1-821-457-11	CONNECTOR, CARD (COMPACT FLASH) (CF CARD EJECT LEVER)
		< RESISTOR >
R5244	1-218-977-11	RES-CHIP 100K 5% 1/16W
R5246	1-218-977-11	RES-CHIP 100K 5% 1/16W
		< COMPOSITION CIRCUIT BLOCK >
RB5201	1-234-372-11	RES, NETWORK 100 (1005X4)
RB5202	1-234-372-11	RES, NETWORK 100 (1005X4)
RB5203	1-234-372-11	RES, NETWORK 100 (1005X4)
RB5204	1-234-372-11	RES, NETWORK 100 (1005X4)
RB5205	1-234-372-11	RES, NETWORK 100 (1005X4)
RB5206	1-234-372-11	RES, NETWORK 100 (1005X4)
RB5207	1-234-372-11	RES, NETWORK 100 (1005X4)
RB5208	1-234-372-11	RES, NETWORK 100 (1005X4)
	A-1442-602-A	RM-096 FLEXIBLE BOARD, COMPLETE *****
		(BZ901 and J901 are not included in RM-096 flexible complete board.)
		< BUZZER >
BZ901	1-826-816-11	BUZZER, PIEZOELECTRIC
		< JACK >
J901	1-480-041-11	REMOTE HOLDER (REMOTE)
		< LINE FILTER >
LF8601	1-457-088-21	COIL, COMMOM MORD CHOKE

Note: Be sure to read "Precautions for Replacement of Imager" on page 4-2 when changing the imager.

Note: イメージャの交換時は4-3ページの“イメージャ交換時の注意”を必ずお読みください。

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
	A-1437-493-A	ST-196 BOARD, COMPLETE	*****		
	3-277-350-01	TAPE (62300), CAPACITOR FIXED	< CAPACITOR >		
△* C901	1-114-603-11	ELECT	250uF		330V
C6501	1-119-667-11	CERAMIC CHIP	22uF		10V
C6502	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C6504	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C6506	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6507	1-164-360-11	CERAMIC CHIP	0.1uF		16V
			< CONNECTOR >		
* CN6501	1-816-644-51	FFC/FPC CONNECTOR (LIF) 12P			
* CN6503	1-821-666-11	PIN, CONNECTOR			
* CN6504	1-821-666-21	PIN, CONNECTOR			
			< DIODE >		
△* D6501	6-502-219-01	DIODE FV02R80TP			
△ D6502	6-501-119-01	DIODE RR264M-400			
			< IC >		
△* IC6501	6-711-948-01	IC BD4216NUV-E2			
			< TRANSISTOR >		
△* Q6501	6-551-937-01	TRANSISTOR TIG032TS-S-TL-E			
			< RESISTOR >		
* R6501	1-246-338-21	METAL CHIP	3M		1/8W
R6502	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R6506	1-216-807-11	METAL CHIP	68	5%	1/10W
R6507	1-216-857-11	METAL CHIP	1M	5%	1/10W
R6510	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6514	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6516	1-216-845-11	METAL CHIP	100K	5%	1/10W
			< TRANSFORMER >		
△* T6501	1-445-335-11	TRANSFORMER, D.C.-D.C.CONVERTER			

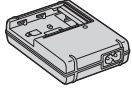
• Refer to page 5-1 for mark △.

Ver. 1.3 2008.06

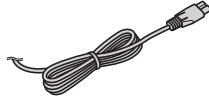
The changed portions from Ver. 1.1 are shown in blue.

Checking supplied accessories.

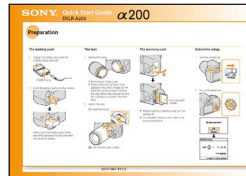
Note: This item is supplied with the unit as an accessory, but is not prepared as a service part.



Battery Charger
BC-VM10
△ 1-479-742-41



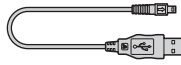
Power Cord
△ 1-792-549-41 (J)
△ 1-824-910-71 (AEP)
△ 1-827-269-12 (UK)
△ 1-832-121-31 (CH)
△ 1-833-892-21 (KR)



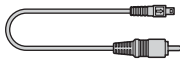
Quick Start Guide
3-277-947-01 (JAPANESE) (J)
3-277-947-11 (ENGLISH) (AEP, UK)
3-277-947-21 (FRENCH, ITALIAN) (AEP)
3-277-947-31 (SPANISH, PORTUGUESE) (AEP)
3-277-947-41 (GERMAN, DUTCH) (AEP)
3-277-947-61 (RUSSIAN) (AEP)
3-277-947-81 (KOREAN) (KR)
3-277-947-91 (SIMPLIFIED CHINESE) (CH)



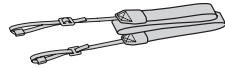
Rechargeable Battery Pack
NP-FM500H
(Note)



USB Cable
1-834-311-21



Video Cable
1-834-312-11



Shoulder Strap
3-282-907-03

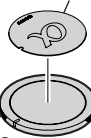


Instruction Manual
3-277-950-01 (JAPANESE) (J)
3-277-950-11 (ENGLISH) (AEP, UK)
3-277-950-21 (FRENCH, ITALIAN) (AEP)
3-277-950-31 (SPANISH, PORTUGUESE) (AEP)
3-277-950-41 (GERMAN, DUTCH) (AEP)
3-277-950-61 (RUSSIAN) (AEP)
3-277-950-81 (KOREAN) (KR)
3-277-950-93 (SIMPLIFIED CHINESE) (CH)



Eyepiece Cover
3-273-458-01

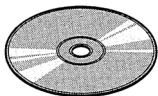
Body Cap Seal
2-894-387-01



Body Cap
2-688-728-02



Eyecup
X-2187-839-1



CD-ROM
(Application Software for α Camera)
3-277-944-01

• Refer to page 5-1 for mark △.

DSLR-A200

SONY®

SERVICE MANUAL

Ver. 1.3 2008.06

This SUPPLEMENT-2 is the revised version of SUPPLEMENT-1.
Replace the SUPPLEMENT-1 (9-852-244-81) with the SUPPLEMENT-2.
Please discard the SUPPLEMENT-1.

LEVEL 2

*AEP Model
UK Model
Chinese Model
Korea Model
Japanese Model*

SUPPLEMENT-2

File this supplement with the service manual.
(D108-123)

- Addition of Korea Model
- Change of Board's Suffix No.
- Change of Repair Parts
- Change of Disassembly
- Addition of LCD Type (SONY TYPE)
- Revision of Accessories

Note: Please refer to Ver.1.3 of SERVICE MANUAL (9-854-244-32) for the addition of Korea model and the revision of accessories.

- Suffix No. of AM-013 board has been changed from **11** into **13**, **23**.
- Suffix No. of RM-096 flexible board has been changed from **11**, **12** into **21**.
- Suffix No. of MA-450 flexible board has been changed from **11** into **12**.

About suffix No. **11** and **12**, there are no changes of schematic diagram and printed wiring board.

- Along with AUO TYPE, SONY TYPE is added at type of LCD.
- When the machine needs to be repaired, make sure to follow the item of "LCD TYPE CHECK".

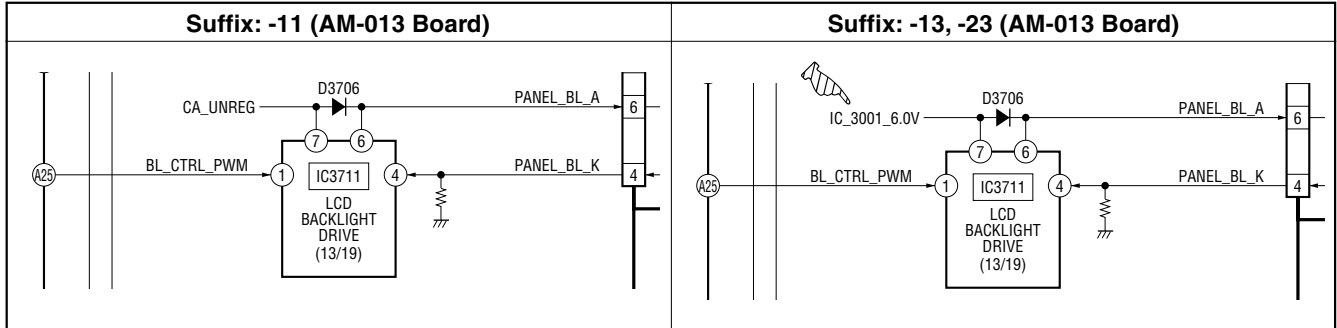
 : Points changed portion.

- Change of AM-013 Board's Suffix No.

3. BLOCK DIAGRAMS

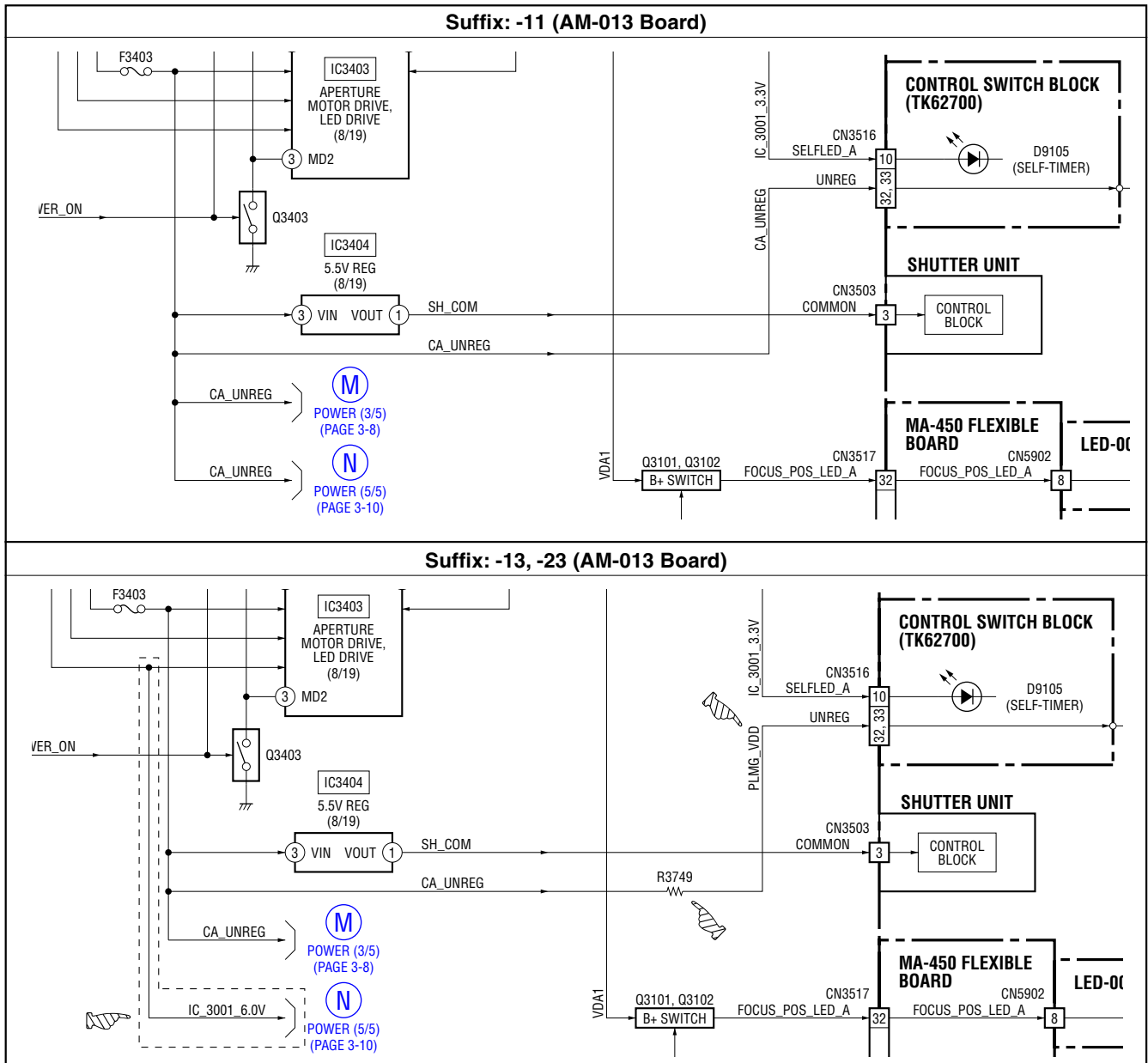
3-1. OVERALL BLOCK DIAGRAM (1/5)

(Service manual page 3-1)



3-7. POWER BLOCK DIAGRAM (2/5)

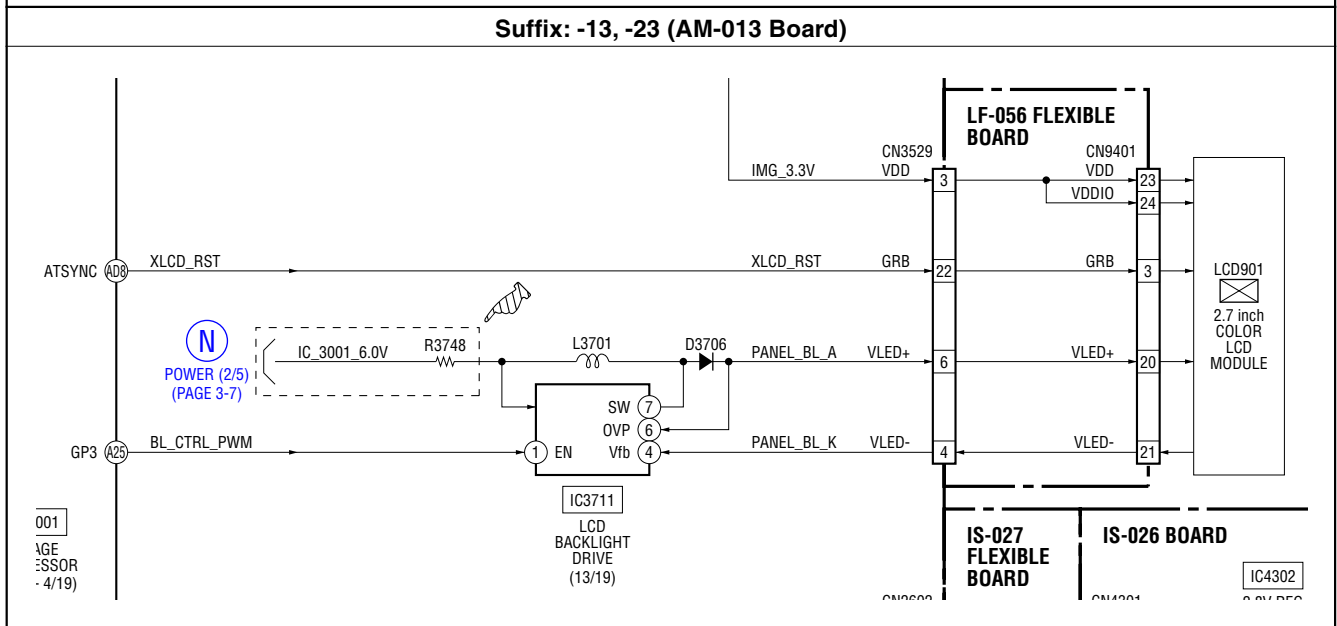
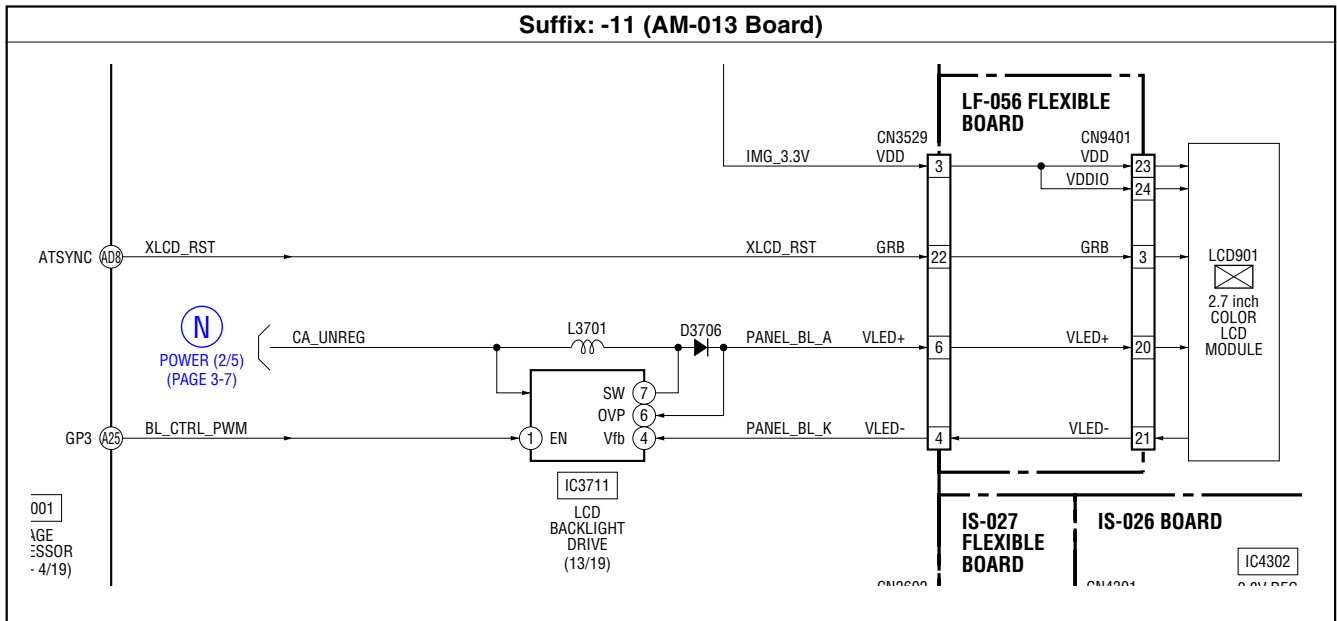
(Service manual page 3-7)



 : Points changed portion.

3-10. POWER BLOCK DIAGRAM (5/5)

(Service manual page 3-10)



5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

Page	Suffix: -11 (AM-013 Board)			Suffix: -13, -23 (AM-013 Board)		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
5-5	154	A-1437-664-A	AM-013 BOARD, COMPLETE (SERVICE)	154	A-1437-664-B	AM-013 BOARD, COMPLETE (SERVICE)

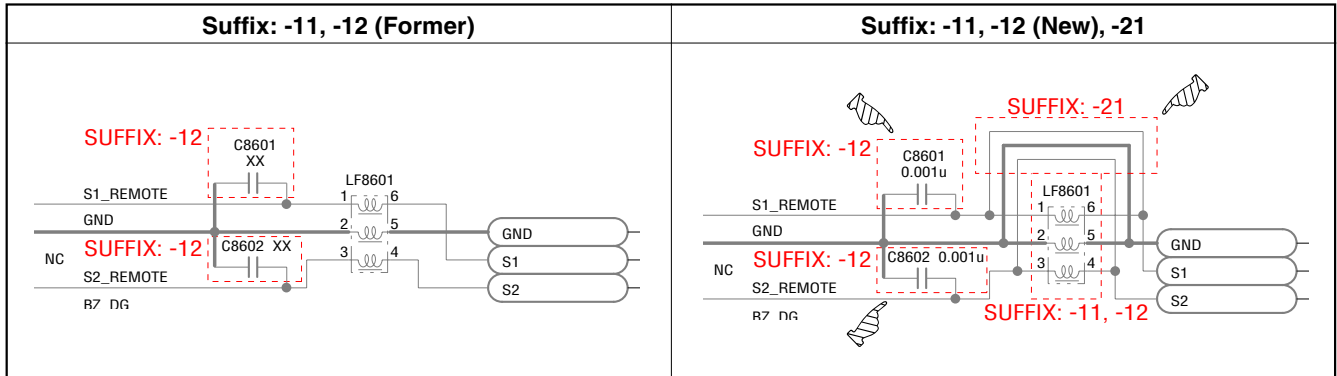
 : Points changed portion.

- Change of RM-096 Flexible Board's Suffix No.
- Change of Repair Parts

4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

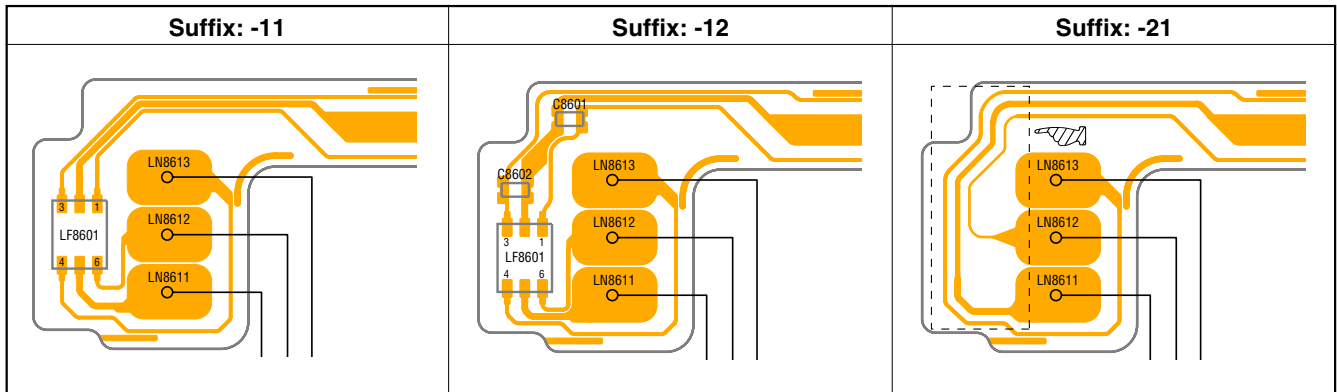
4-2. SCHEMATIC DIAGRAMS

RM-096 FLEXIBLE BOARD (REMOTE JACK)
(Service manual page 4-32, Location A-2 to B-3)



4-3. PRINTED WIRING BOARDS

RM-096 FLEXIBLE BOARD
(Service manual page 4-50)



5. REPAIR PARTS LIST

5-2. ELECTRICAL PARTS LIST

	Suffix: -11, -12 (Former)	Suffix: -11, -12 (New), -21																																				
5-23	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Ref. No.</th> <th style="width: 15%;">Part No.</th> <th style="width: 75%;">Description</th> </tr> </thead> <tbody> <tr> <td></td> <td>A-1442-602-A</td> <td>RM-096 FLEXIBLE BOARD, COMPLETE *****</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">< CAPACITOR ></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">< LINE FILTER ></td> </tr> <tr> <td></td> <td>LF8601 1-457-088-21</td> <td>COIL, COMMOM MORD CHOKE</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description		A-1442-602-A	RM-096 FLEXIBLE BOARD, COMPLETE *****			< CAPACITOR >			< LINE FILTER >		LF8601 1-457-088-21	COIL, COMMOM MORD CHOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Ref. No.</th> <th style="width: 15%;">Part No.</th> <th style="width: 75%;">Description</th> </tr> </thead> <tbody> <tr> <td></td> <td>A-1442-602-A</td> <td>RM-096 FLEXIBLE BOARD, COMPLETE (Note 1) *****</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">< CAPACITOR ></td> </tr> <tr> <td></td> <td>C8601 1-164-937-11</td> <td>CERAMIC CHIP 0.001uF 10% 50V (Suffix: -12)</td> </tr> <tr> <td></td> <td>C8602 1-164-937-11</td> <td>CERAMIC CHIP 0.001uF 10% 50V (Suffix: -12)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">< LINE FILTER ></td> </tr> <tr> <td></td> <td>LF8601 1-457-088-21</td> <td>COIL, COMMOM MORD CHOKE (Suffix: -11, -12)</td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Note 1: Use the RM-096 complete flexible board (A-1442-602-A) when replacing the board having the suffix-21.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Note 1: 末尾-21の基板を交換の際はRM-096 complete flexible board (A-1442-602-A) を使用してください。</p> </div>	Ref. No.	Part No.	Description		A-1442-602-A	RM-096 FLEXIBLE BOARD, COMPLETE (Note 1) *****			< CAPACITOR >		C8601 1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V (Suffix: -12)		C8602 1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V (Suffix: -12)			< LINE FILTER >		LF8601 1-457-088-21	COIL, COMMOM MORD CHOKE (Suffix: -11, -12)
Ref. No.	Part No.	Description																																				
	A-1442-602-A	RM-096 FLEXIBLE BOARD, COMPLETE *****																																				
		< CAPACITOR >																																				
		< LINE FILTER >																																				
	LF8601 1-457-088-21	COIL, COMMOM MORD CHOKE																																				
Ref. No.	Part No.	Description																																				
	A-1442-602-A	RM-096 FLEXIBLE BOARD, COMPLETE (Note 1) *****																																				
		< CAPACITOR >																																				
	C8601 1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V (Suffix: -12)																																				
	C8602 1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V (Suffix: -12)																																				
		< LINE FILTER >																																				
	LF8601 1-457-088-21	COIL, COMMOM MORD CHOKE (Suffix: -11, -12)																																				

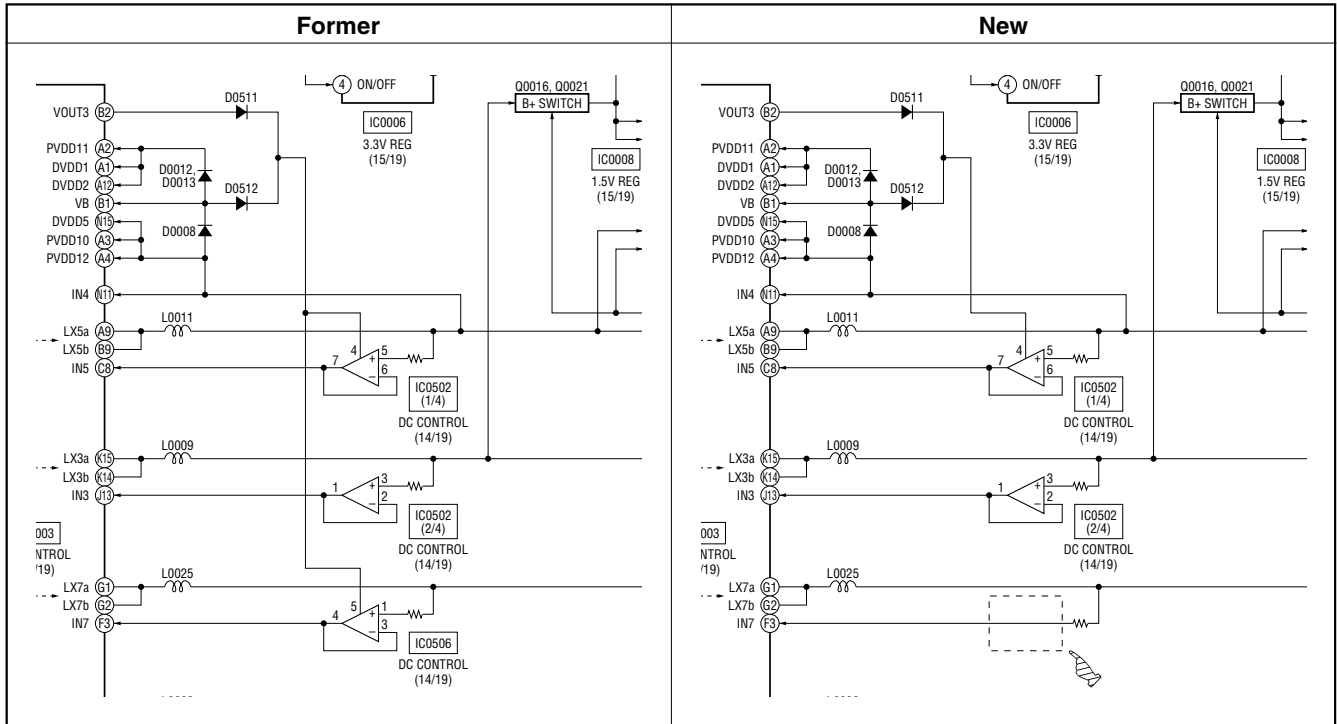
 : Points changed portion.

- Change of Repair Parts

3. BLOCK DIAGRAMS

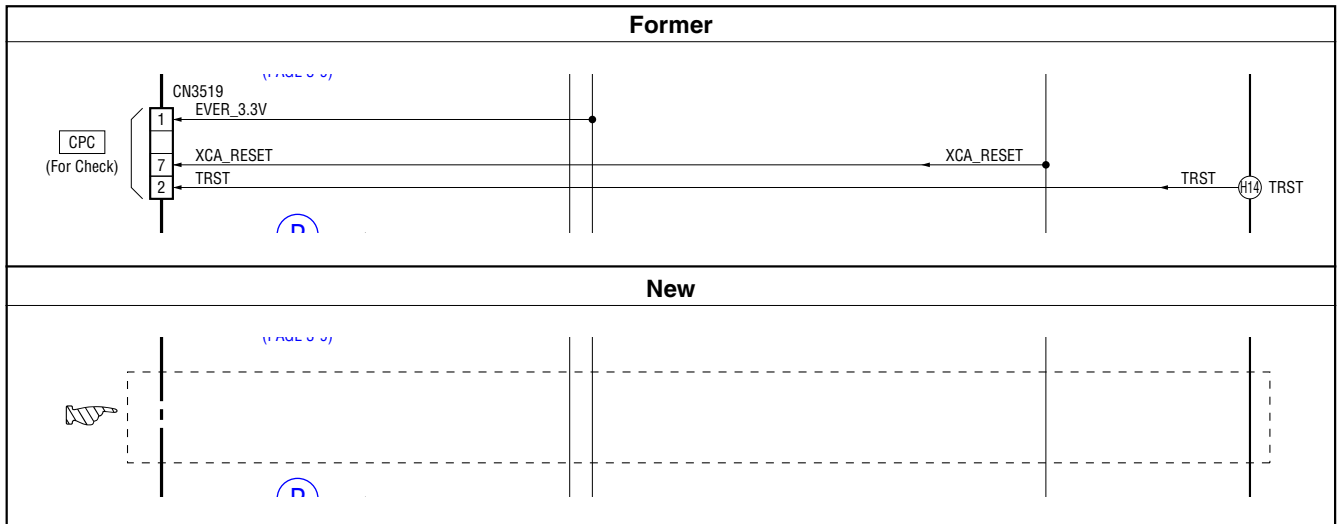
3-6. POWER BLOCK DIAGRAM (1/5)

(Service manual page 3-6)



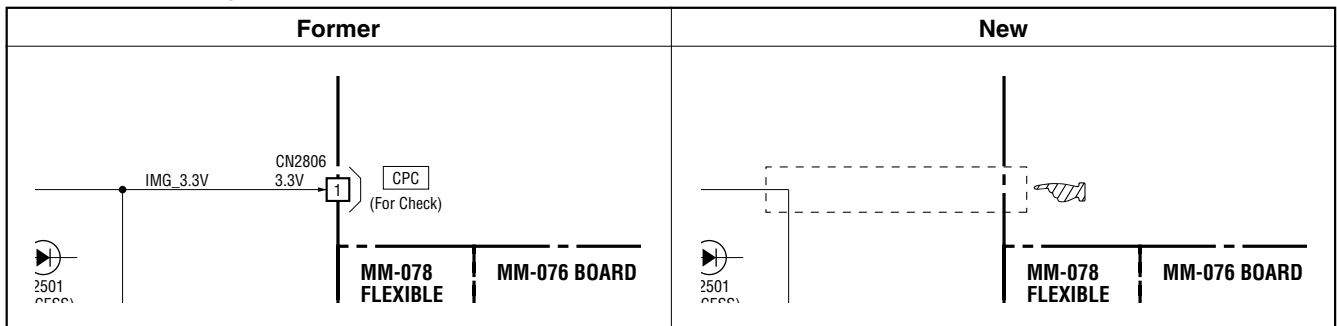
3-8. POWER BLOCK DIAGRAM (3/5)


(Service manual page 3-8)



3-10. POWER BLOCK DIAGRAM (5/5)

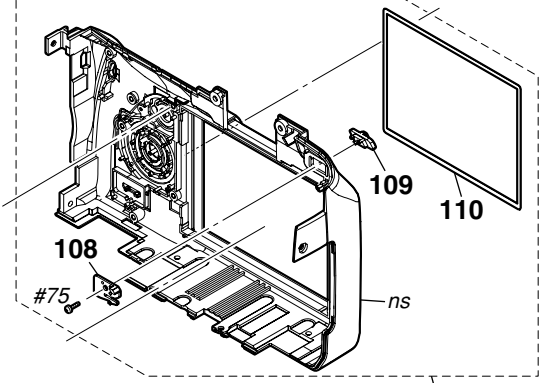
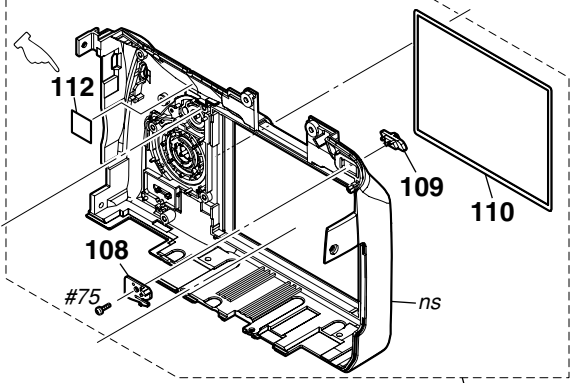
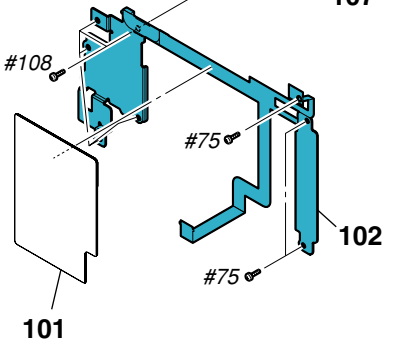
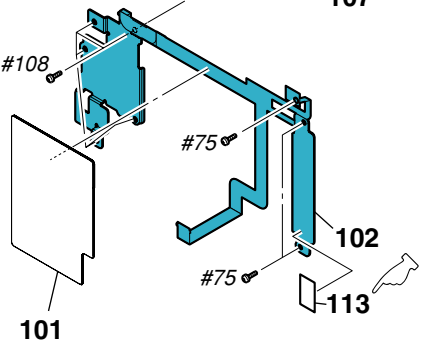
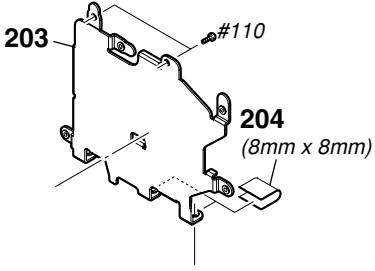
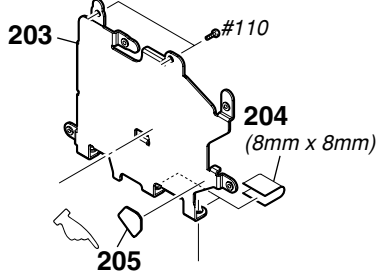
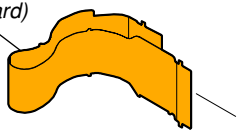
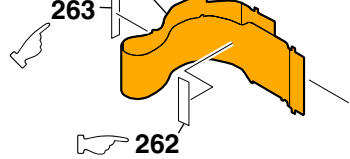
(Service manual page 3-10)



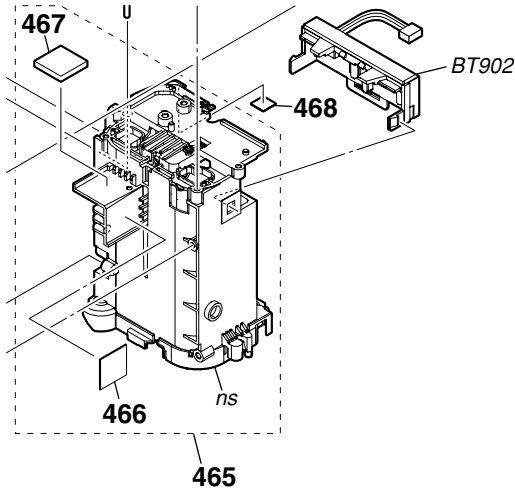
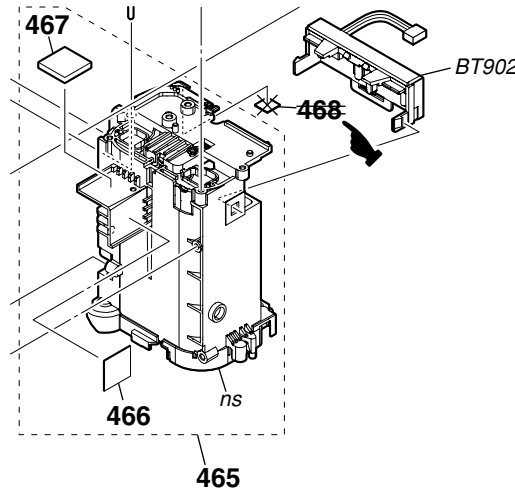
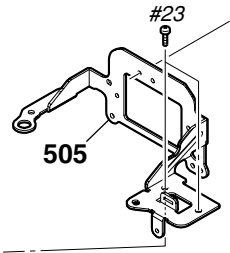
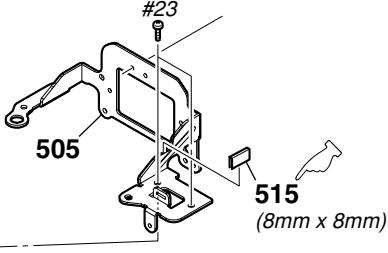
 : Points added portion.

5. REPAIR PARTS LIST

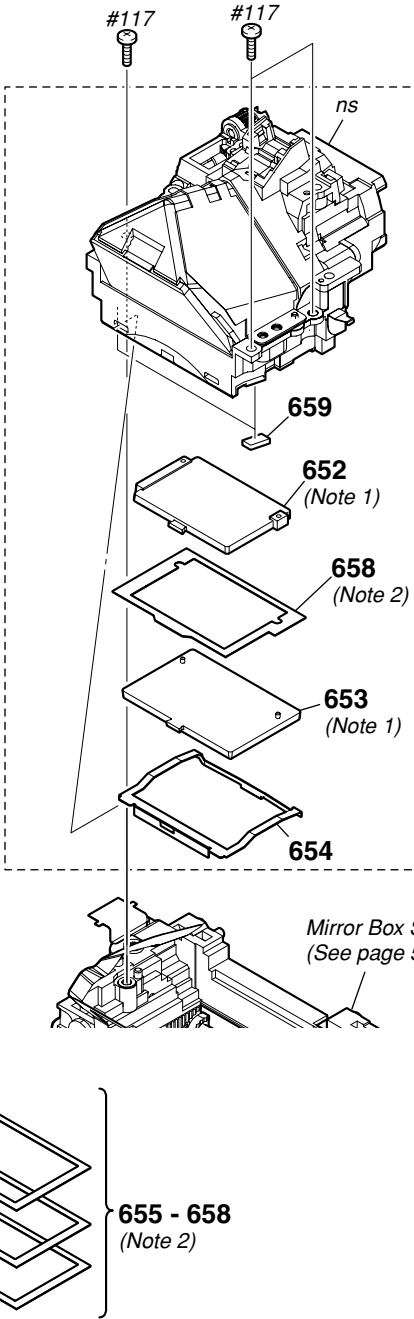
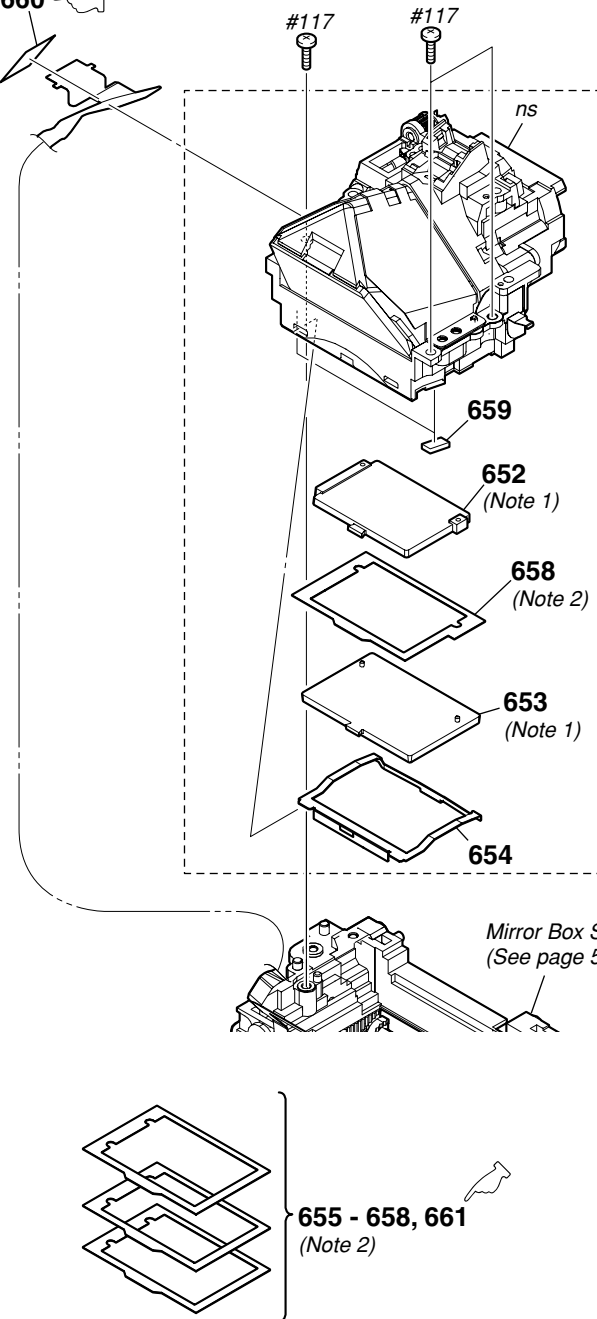
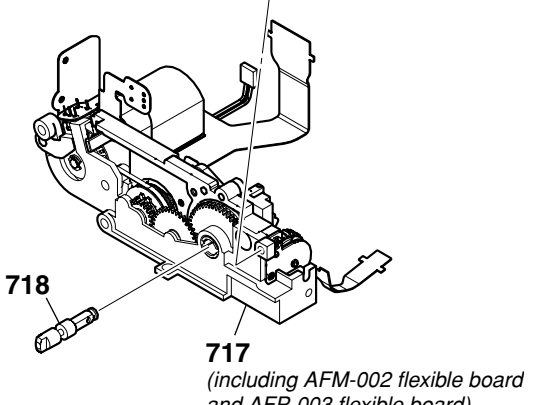
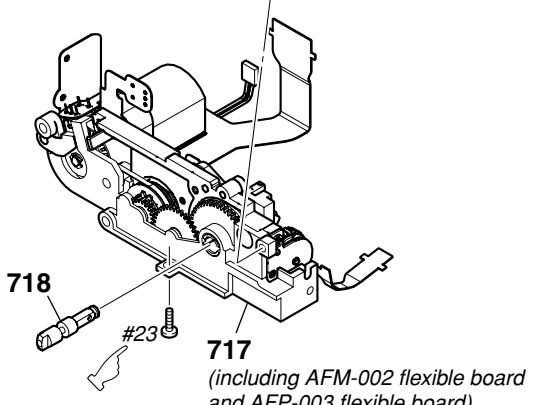
5-1. EXPLODED VIEWS

Page	Former	New												
5-2	<table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>* 6</td> <td>3-282-749-01</td> <td>BD SIDE COVER (L)</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	* 6	3-282-749-01	BD SIDE COVER (L)	<table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>3-282-749-02</td> <td>BD SIDE COVER (L)</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	6	3-282-749-02	BD SIDE COVER (L)
Ref. No.	Part No.	Description												
* 6	3-282-749-01	BD SIDE COVER (L)												
Ref. No.	Part No.	Description												
6	3-282-749-02	BD SIDE COVER (L)												
5-4														
														
		<table border="1"> <tbody> <tr> <td>112</td> <td>3-085-917-01</td> <td>SHEET, PROTECTION, BT FLEXIBLE</td> </tr> <tr> <td>113</td> <td>3-870-313-01</td> <td>SHEET, AFM FLEXIBLE GUARD</td> </tr> </tbody> </table>	112	3-085-917-01	SHEET, PROTECTION, BT FLEXIBLE	113	3-870-313-01	SHEET, AFM FLEXIBLE GUARD						
112	3-085-917-01	SHEET, PROTECTION, BT FLEXIBLE												
113	3-870-313-01	SHEET, AFM FLEXIBLE GUARD												
5-6														
		<table border="1"> <tbody> <tr> <td>* 205</td> <td>3-269-906-01</td> <td>CUSHION, BB</td> </tr> </tbody> </table>	* 205	3-269-906-01	CUSHION, BB									
* 205	3-269-906-01	CUSHION, BB												
5-7	<p>258 (including IS-027 flexible board)</p> 	<p>258 (including IS-027 flexible board)</p> 												
	<table border="1"> <tbody> <tr> <td>254</td> <td>A-1376-336-A</td> <td>SLIDER UNIT (FOR SERVICE) (including ACT-001 flexible board and HOL-004 flexible board)</td> </tr> </tbody> </table>	254	A-1376-336-A	SLIDER UNIT (FOR SERVICE) (including ACT-001 flexible board and HOL-004 flexible board)	<table border="1"> <tbody> <tr> <td>254</td> <td>A-1557-615-A</td> <td>UNIT, SLIDER (6270) (FOR SERVICE) (including ACT-001 flexible board and HOL-004 flexible board)</td> </tr> <tr> <td>* 262</td> <td>3-283-511-01</td> <td>TAPE, IS FPC FIX (SERVICE)</td> </tr> <tr> <td>* 263</td> <td>3-700-910-01</td> <td>TAPE (C), IS FPC (SERVICE)</td> </tr> </tbody> </table>	254	A-1557-615-A	UNIT, SLIDER (6270) (FOR SERVICE) (including ACT-001 flexible board and HOL-004 flexible board)	* 262	3-283-511-01	TAPE, IS FPC FIX (SERVICE)	* 263	3-700-910-01	TAPE (C), IS FPC (SERVICE)
254	A-1376-336-A	SLIDER UNIT (FOR SERVICE) (including ACT-001 flexible board and HOL-004 flexible board)												
254	A-1557-615-A	UNIT, SLIDER (6270) (FOR SERVICE) (including ACT-001 flexible board and HOL-004 flexible board)												
* 262	3-283-511-01	TAPE, IS FPC FIX (SERVICE)												
* 263	3-700-910-01	TAPE (C), IS FPC (SERVICE)												

 : Points added portion.
 : Points deleted portion.

Page	Former	New												
5-9	<table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>357</td> <td>X-2187-846-2</td> <td>ST STROBOSCOPE LOCK ASSY</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	357	X-2187-846-2	ST STROBOSCOPE LOCK ASSY	<table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>357</td> <td>X-2190-835-2</td> <td>ST STROBOSCOPE LOCK ASSY</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	357	X-2190-835-2	ST STROBOSCOPE LOCK ASSY
Ref. No.	Part No.	Description												
357	X-2187-846-2	ST STROBOSCOPE LOCK ASSY												
Ref. No.	Part No.	Description												
357	X-2190-835-2	ST STROBOSCOPE LOCK ASSY												
5-10	<p>CAUTION: For the part of 414, cut SHEET, ADHESIVE (2-649-300-01) into the desired length and use it.</p> <p>CAUTION: 414番は、接着紙(2-649-300-01)を切って使用。</p> <table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>414</td> <td>CAUTION</td> <td>CV FPC TAPE B</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	414	CAUTION	CV FPC TAPE B	<p>CAUTION: For the part of 414, cut SHEET, ADHESIVE (2-649-300-01) into the desired length and use it.</p> <p>CAUTION: 414番は、接着紙(2-649-300-01)を切って使用。</p> <table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>414</td> <td>3-287-447-11</td> <td>CV FPC TAPE B</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	414	3-287-447-11	CV FPC TAPE B
Ref. No.	Part No.	Description												
414	CAUTION	CV FPC TAPE B												
Ref. No.	Part No.	Description												
414	3-287-447-11	CV FPC TAPE B												
5-11	 <p>* 468 3-452-743-01 BD BTH SPACER SHEET</p>													
5-12		 <p>CAUTION: For the part of 515, cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.</p> <p>CAUTION: 515番は、T0.25ヒメロン(3-076-631-01)を切って使用。</p> <table border="1"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>515</td> <td>CAUTION</td> <td>BD VTN INSULATING TAPE</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	515	CAUTION	BD VTN INSULATING TAPE						
Ref. No.	Part No.	Description												
515	CAUTION	BD VTN INSULATING TAPE												

 : Points added portion.

Page	Former	New																		
5-13	 <p>Mirror Box S (See page 5)</p> <p>655 - 658 (Note 2)</p> <table border="1" data-bbox="215 1556 742 1646"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Ref. No.	Part No.	Description							 <p>Mirror Box S (See page 5)</p> <p>655 - 658, 661 (Note 2)</p> <table border="1" data-bbox="845 1556 1452 1646"> <thead> <tr> <th>Ref. No.</th> <th>Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>660</td> <td>3-870-313-01</td> <td>SHEET, AFM FLEXIBLE GUARD</td> </tr> <tr> <td>* 661</td> <td>3-700-972-01</td> <td>SPACER (E), VB (T=0.25mm) (Note 2)</td> </tr> </tbody> </table>	Ref. No.	Part No.	Description	660	3-870-313-01	SHEET, AFM FLEXIBLE GUARD	* 661	3-700-972-01	SPACER (E), VB (T=0.25mm) (Note 2)
Ref. No.	Part No.	Description																		
Ref. No.	Part No.	Description																		
660	3-870-313-01	SHEET, AFM FLEXIBLE GUARD																		
* 661	3-700-972-01	SPACER (E), VB (T=0.25mm) (Note 2)																		
5-14	 <p>717 (including AFM-002 flexible board and AFP-003 flexible board)</p>	 <p>717 (including AFM-002 flexible board and AFP-003 flexible board)</p>																		

-  : Points added portion.
-  : Points changed portion.

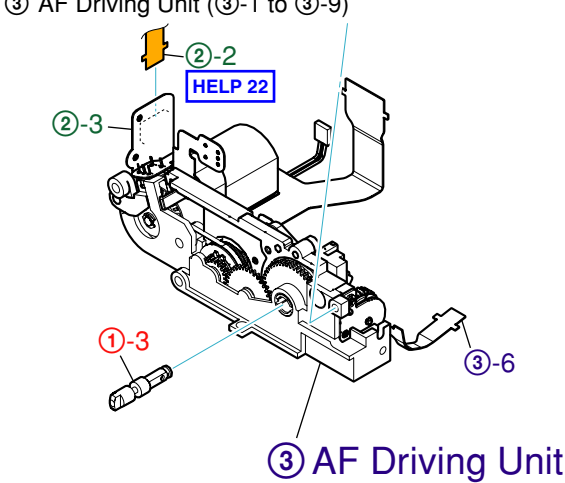
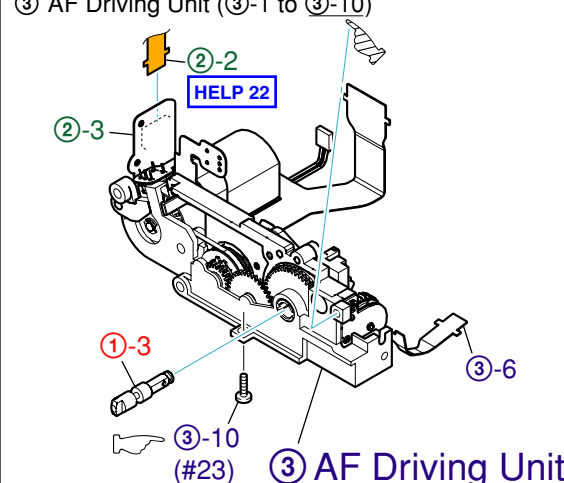
5-2. ELECTRICAL PARTS LIST

Page	Former			New		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
5-23	MA-450 Flexible Board			MA-450 Flexible Board		
			< CONNECTOR >			< CONNECTOR >
	* CN5904	1-816-645-51	FFC/FPC CONNECTOR (LIF) 14P	CN5904	1-816-645-61	FFC/FPC CONNECTOR (LIF) 14P

• Change of Disassembly

2. DISASSEMBLY

2-2. DISASSEMBLY

Page	Former	New
2-14	<p>③ AF Driving Unit (③-1 to ③-9)</p>  <p>③ AF Driving Unit</p>	<p>③ AF Driving Unit (③-1 to ③-10)</p>  <p>③ AF Driving Unit</p>

• Addition of LCD Type (SONY TYPE)

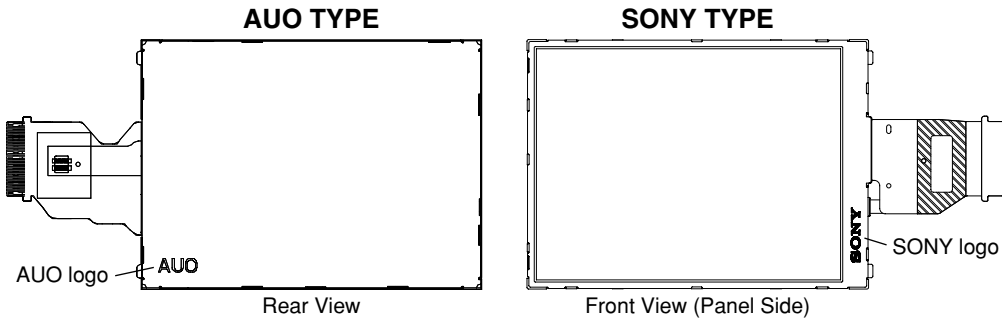
1. SERVICE NOTE

1-6. LCD TYPE CHECK

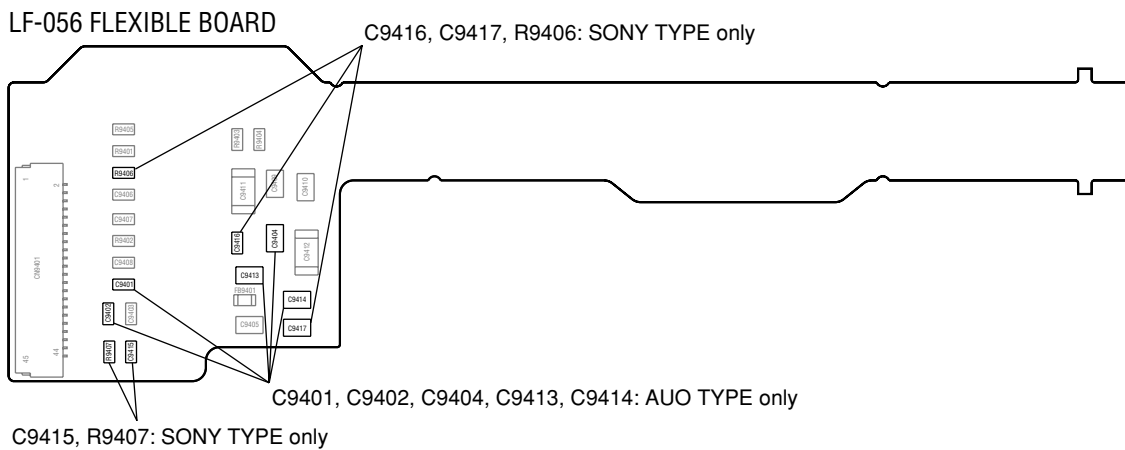
The combination of LCD panel, LF-056 flexible board, and AM-013 board is in each type of LCD.

	AUO TYPE	SONY TYPE
LCD panel	AUO	SONY
LF-056 flexible board's Part No.	A-1437-496-A	A-1542-395-A
AM-013 board's Part No.	A-1437-664-A (Suffix: -11) A-1437-664-B (Suffix: -13, -23)	A-1437-664-B (Suffix: -13, -23)

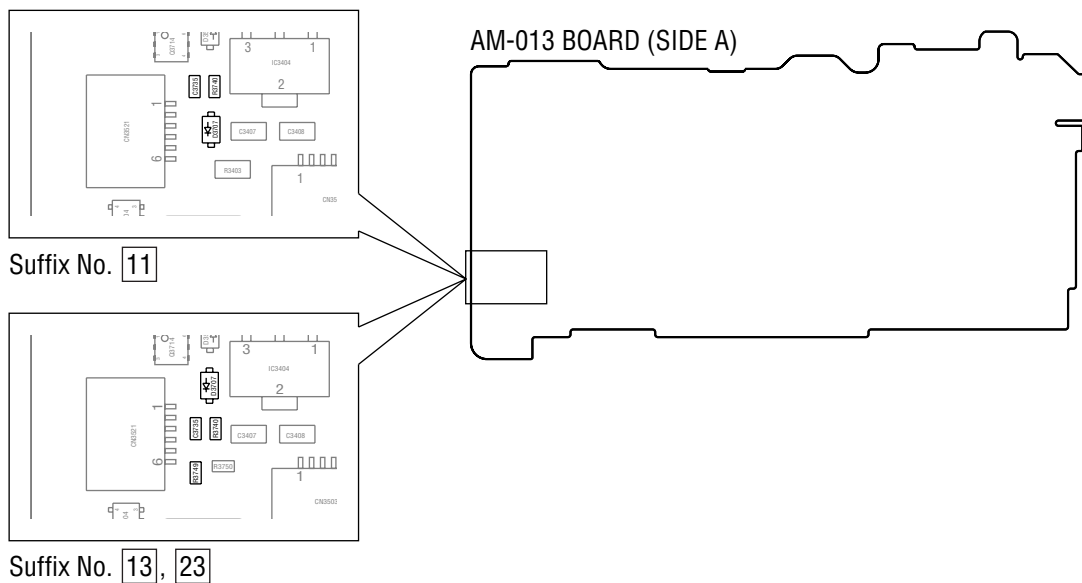
• Discrimination method of LCD panel



• Discrimination method of LF-056 flexible board



• Discrimination method of AM-013 board



1. SERVICE NOTE

ENGLISH

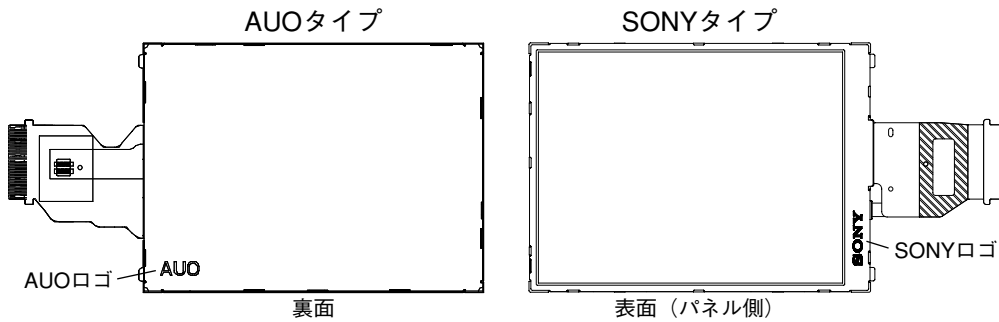
JAPANESE

1-6. LCDタイプチェック

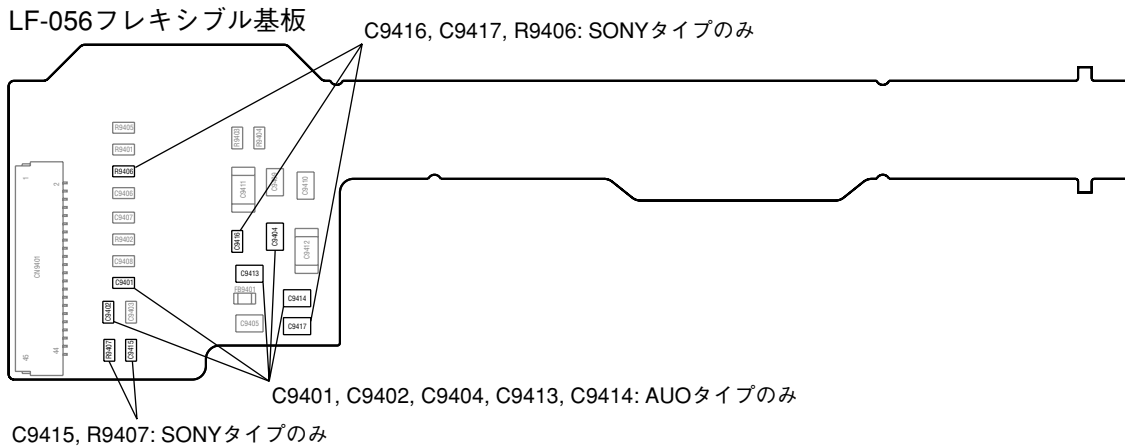
LCDのタイプごとにLCDパネルとLF-056フレキシブル基板とAM-013基板の組み合わせがあります。

	AUOタイプ	SONYタイプ
LCDパネル	AUO	SONY
LF-056フレキシブル基板の部品番号	A-1437-496-A	A-1542-395-A
AM-013の部品番号	A-1437-664-A (基板末尾: -11) A-1437-664-B (基板末尾: -13, -23)	A-1437-664-B (基板末尾: -13, -23)

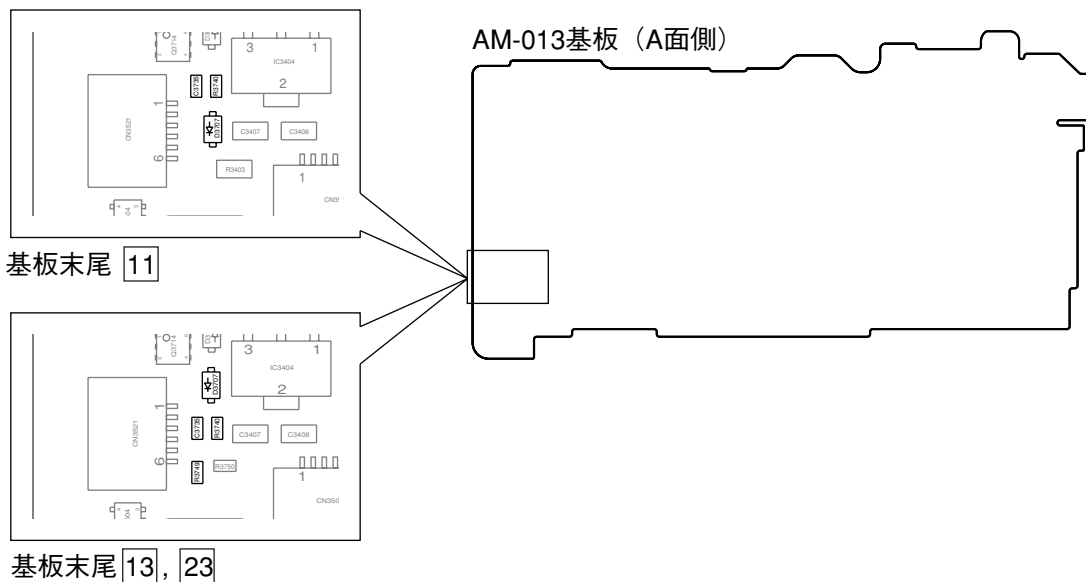
• LCDパネルの見分け方



• LF-056フレキシブル基板の見分け方



• AM-013基板の見分け方

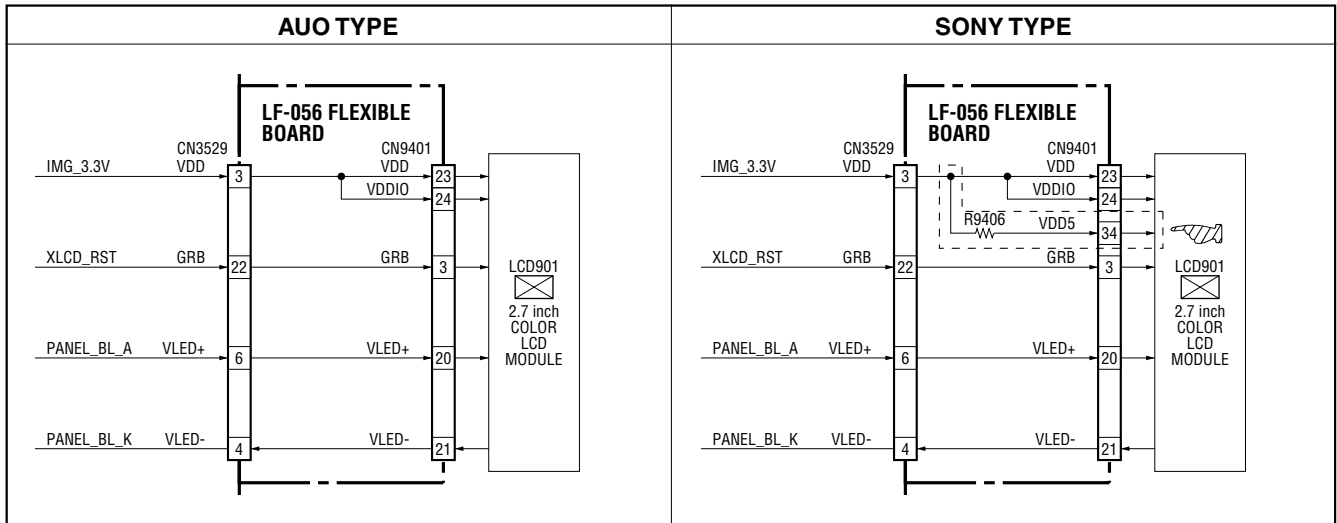


 : Points changed portion.

3. BLOCK DIAGRAMS

3-10. POWER BLOCK DIAGRAM (5/5)

(Service manual page 3-10)

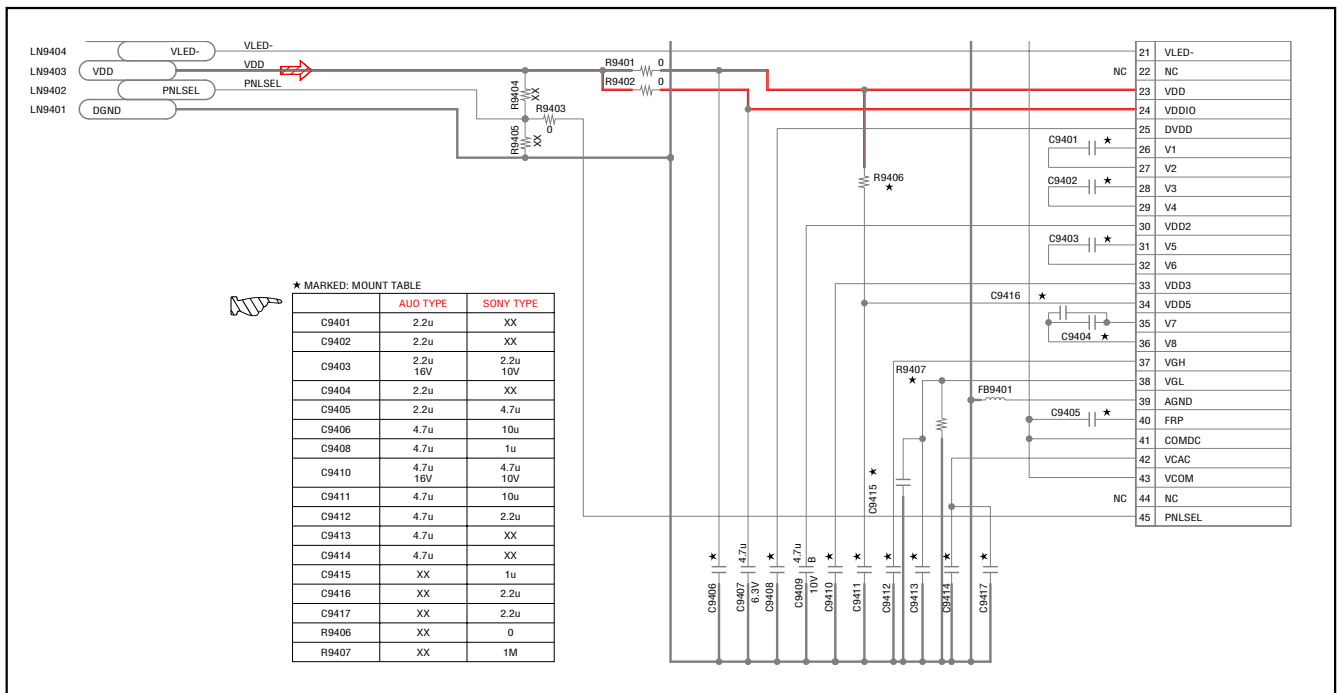


4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

LF-056 FLEXIBLE BOARD (LCD)

(Service manual page 4-26, Location D-5 to F-9)



5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

Page	AUO TYPE			SONY TYPE		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
5-4	103	A-1437-496-A	LF-056 FLEXIBLE BOARD, COMPLETE	103	A-1542-395-A	LF-056 FLEXIBLE BOARD, COMPLETE
	LCD901	1-802-570-11	LCD MODULE (A027DN01 V1)	LCD901	8-753-298-16	ACX373AKM-3

5-2. ELECTRICAL PARTS LIST

Page	AUO TYPE						SONY TYPE					
	Ref. No.	Part No.	Description				Ref. No.	Part No.	Description			
		A-1437-496-A	LF-056 FLEXIBLE BOARD, COMPLETE *****				A-1542-395-A	LF-056 FLEXIBLE BOARD, COMPLETE *****				
			< CAPACITOR >					< CAPACITOR >				
	C9401	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V						
	C9402	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V						
	C9403	1-112-021-91	CERAMIC CHIP	2.2uF	20%	16V	C9403	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V
	C9404	1-114-098-91	CERAMIC CHIP	2.2uF	20%	25V						
	C9405	1-100-743-91	CERAMIC CHIP	2.2uF	20%	16V	C9405	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V
	* C9406	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V	C9406	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
	* C9407	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V	C9407	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
	* C9408	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V	C9408	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
	C9409	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V	C9409	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V
	C9410	1-100-670-11	CERAMIC CHIP	4.7uF	20%	16V	C9410	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V
	C9411	1-100-967-91	CERAMIC CHIP	4.7uF	20%	25V	* C9411	1-100-910-91	CERAMIC CHIP	10uF	20%	10V
	C9412	1-100-967-91	CERAMIC CHIP	4.7uF	20%	25V	C9412	1-114-750-91	CERAMIC CHIP	2.2uF	20%	16V
5-23	C9413	1-100-670-11	CERAMIC CHIP	4.7uF	20%	16V						
	C9414	1-112-300-91	CERAMIC CHIP	4.7uF	10%	10V						
			< CONNECTOR >						< CONNECTOR >			
	* CN9401	1-821-202-71	CONNECTOR, FPC (ZIF) 45P				* CN9401	1-821-202-71	CONNECTOR, FPC (ZIF) 45P			
			< FERRITE BEAD >						< FERRITE BEAD >			
	FB9401	1-414-864-11	FERRITE, EMI (SMD) (1608)				FB9401	1-414-864-11	FERRITE, EMI (SMD) (1608)			
			< RESISTOR >						< RESISTOR >			
	R9401	1-216-864-11	SHORT CHIP	0			R9401	1-216-864-11	SHORT CHIP	0		
	R9402	1-216-864-11	SHORT CHIP	0			R9402	1-216-864-11	SHORT CHIP	0		
	R9403	1-216-864-11	SHORT CHIP	0			R9403	1-216-864-11	SHORT CHIP	0		
							R9406	1-216-864-11	SHORT CHIP	0		
							R9407	1-216-857-11	METAL CHIP	1M	5%	1/10W

HARDWARE LIST (1/6)

#1: M1.7 X 2.5
(Black)
2-635-562-11

#2: M1.7 X 4.0
(Black)
2-635-562-31

#3: M1.7 X 2.5
(Red)
2-660-401-01

#4: M1.4 X 2.5 (Tapping)
(Dark Silver)
3-348-998-81

#5: M1.7 X 3.5 (Tapping)
(Black)
3-080-204-01

#6: M1.4 X 1.7
(Silver)
2-598-474-01

#7: M1.7 X 1.6
(Black)
7-627-552-18

#8: M1.7 X 3.5 (Tapping)
(Silver)
3-078-890-01

#9: M1.7 X 5.0 (Tapping)
(Silver)
3-078-890-21

#10: M1.7 X 4.0
(Silver)
2-599-475-31

#11: M1.7 X 4.0 (Tapping)
(Silver)
3-078-890-11

#12: M1.7 X 5.0 (Tapping)
(Black)
3-080-204-21

#13: M1.7 X 2.5 (Tapping)
(Silver)
3-085-397-01

#14: M1.7 X 2.5
(Silver)
2-599-475-11

#15: M1.4 X 1.5
(Silver)
3-062-214-01

#16: M1.4 X 2.5
(Silver)
2-586-337-01

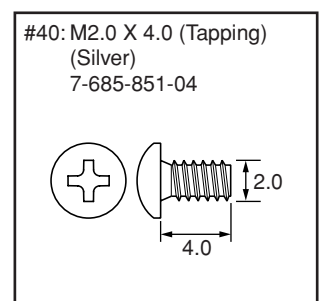
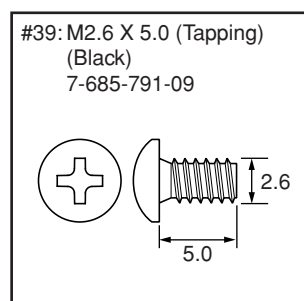
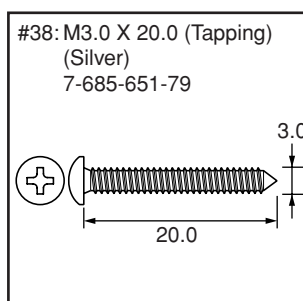
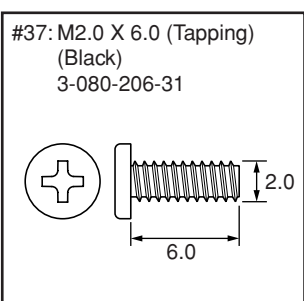
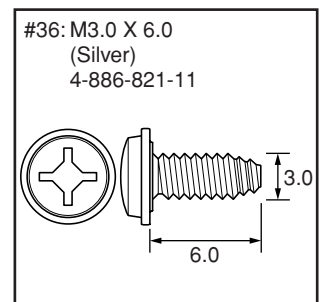
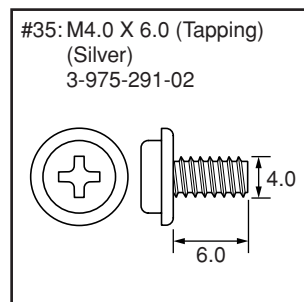
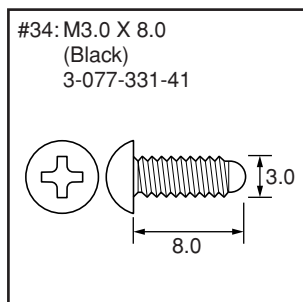
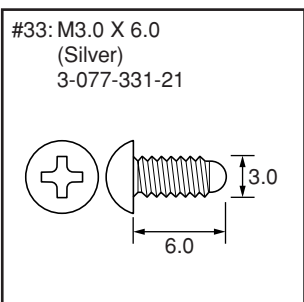
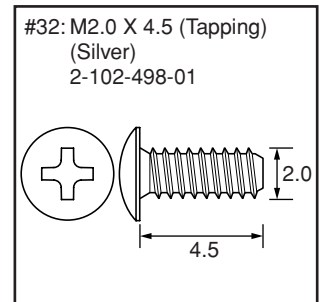
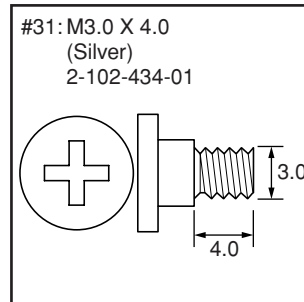
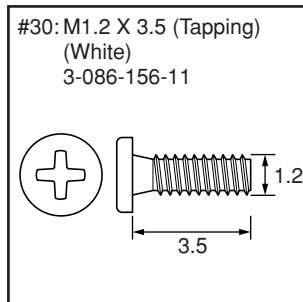
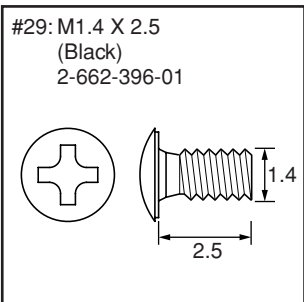
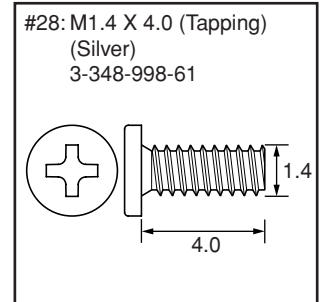
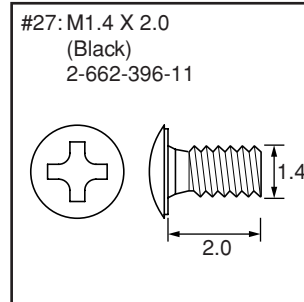
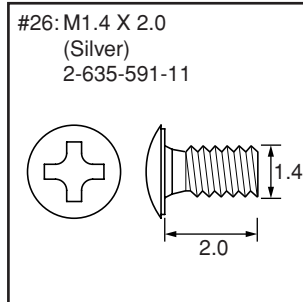
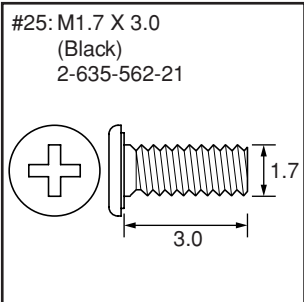
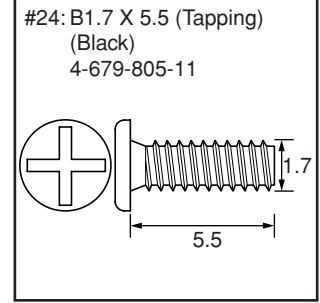
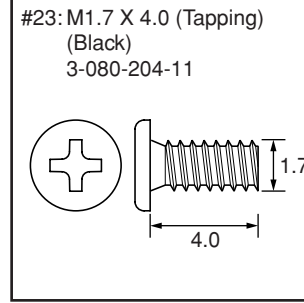
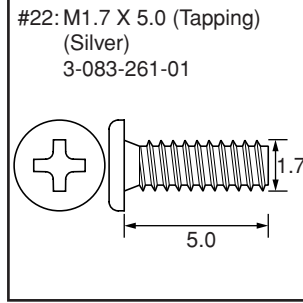
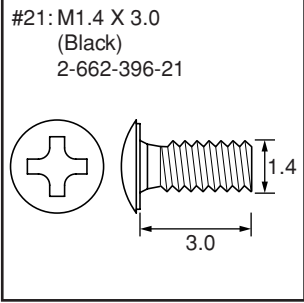
#17: M1.7 X 1.5
(Silver)
2-586-389-01

#18: M1.4 X 2.5
(Silver)
2-635-591-21

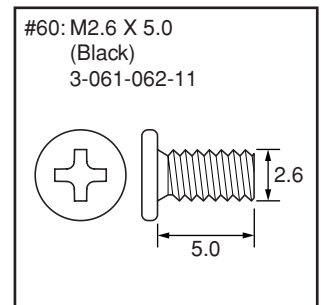
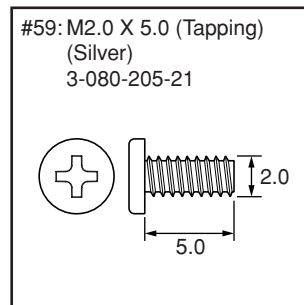
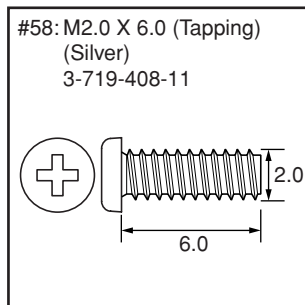
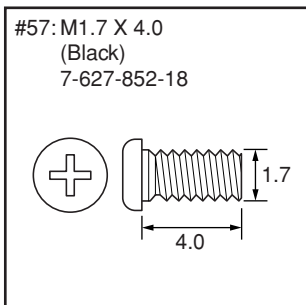
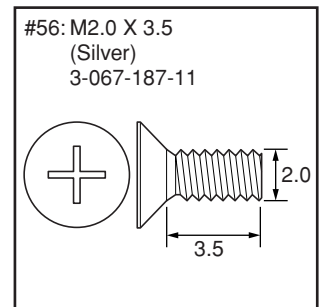
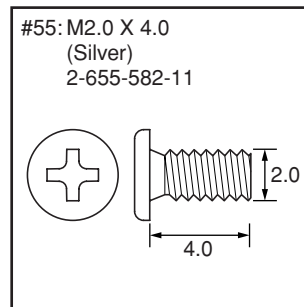
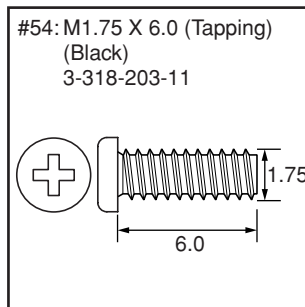
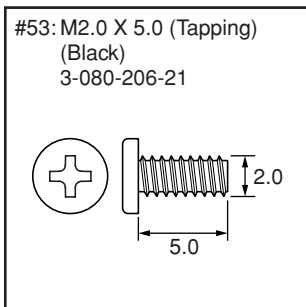
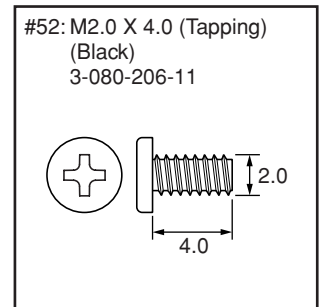
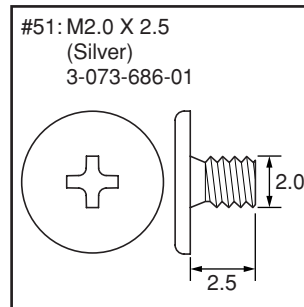
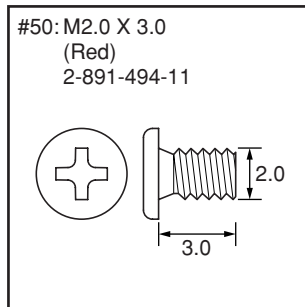
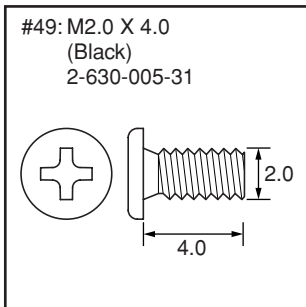
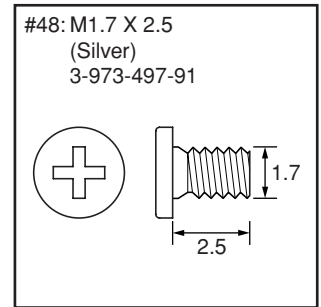
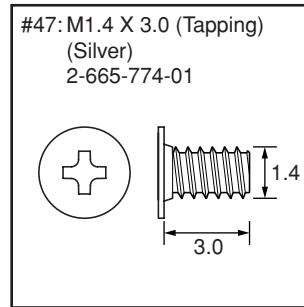
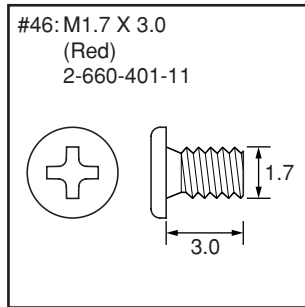
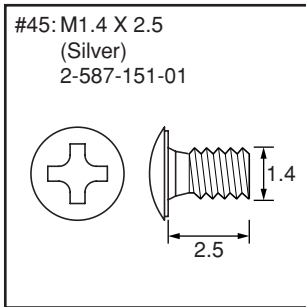
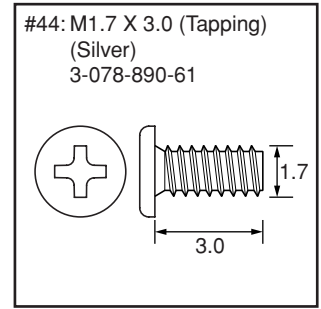
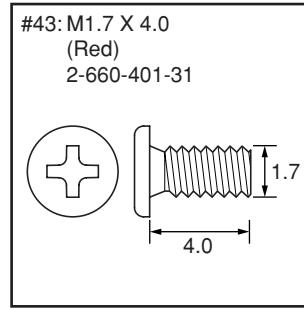
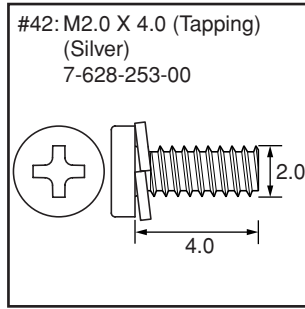
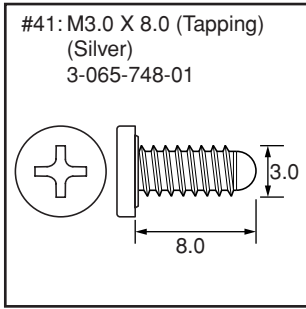
#19: M1.2 X 4.0 (Tapping)
(Red)
3-086-156-21

#20: M1.4 X 3.0
(Silver)
2-635-591-31

HARDWARE LIST (2/6)



HARDWARE LIST (3/6)



HARDWARE LIST (4/6)

#61: M3.0 X 10.0
(Black)
7-682-549-09

#62: M2.0 X 3.0
(Silver)
3-080-202-21

#63: M5.0 X 12.5
(Black)
3-060-811-21

#64: M1.7 X 5.0 (Tapping)
(Silver)
2-666-551-21

#65: M1.4 X 3.5
(Silver)
2-635-591-01

#66: M1.4 X 1.4
(Silver)
2-635-591-41

#67: M1.4 X 2.0
(Silver)
3-389-523-16

#68: M1.7 X 4.0
(Silver)
2-655-581-01

#69: M1.7 X 3.0
(Silver)
2-599-475-21

#70: M1.7 X 5.0
(Silver)
2-599-475-41

#71: M1.4 X 2.0
(Red)
3-208-537-01

#72: M1.4 X 2.0
(Silver)
4-663-621-41

#73: M1.2 X 4.0 (Tapping)
(Black)
3-086-156-61

#74: M1.7 X 6.0 (Tapping)
(Silver)
2-666-551-31

#75: M1.7 X 3.5 (Tapping)
(Silver)
2-666-551-01

#76: M1.7 X 4.0 (Tapping)
(Silver)
2-666-551-11

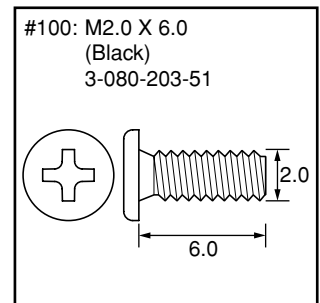
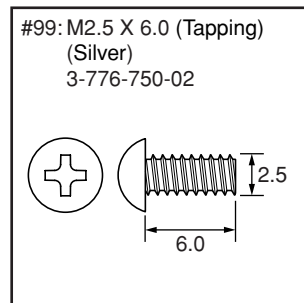
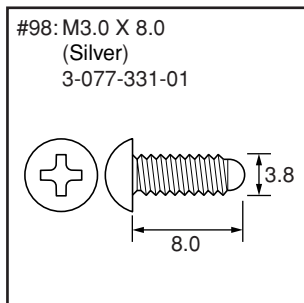
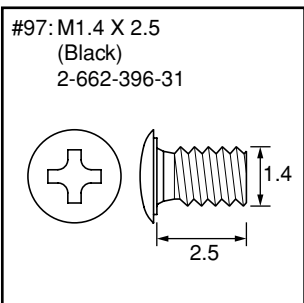
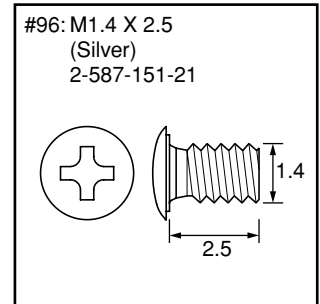
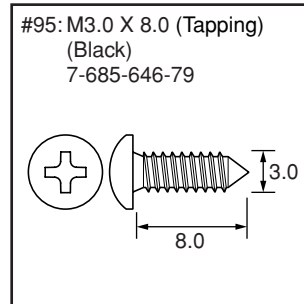
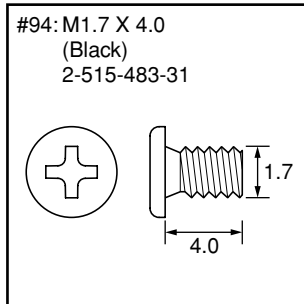
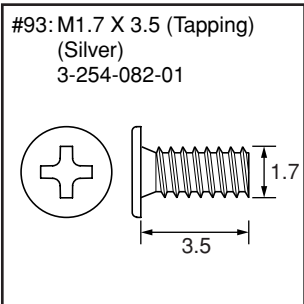
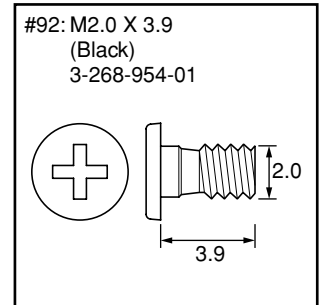
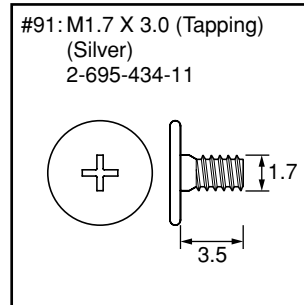
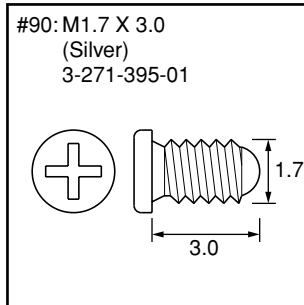
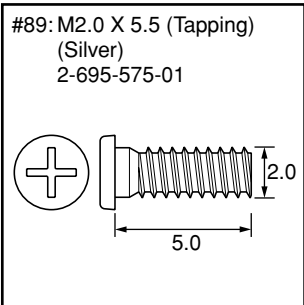
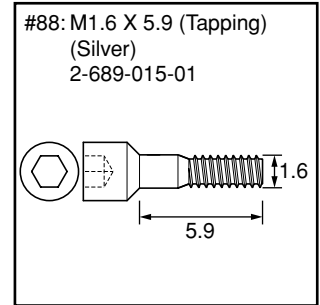
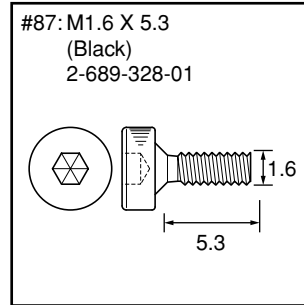
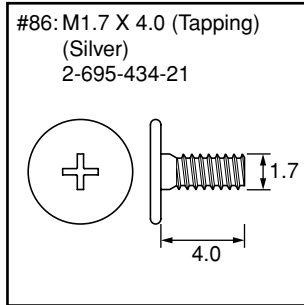
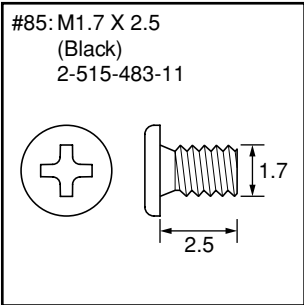
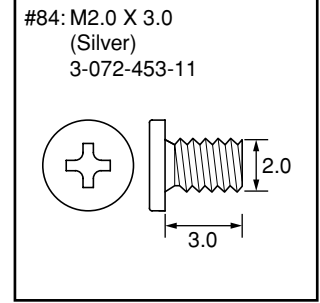
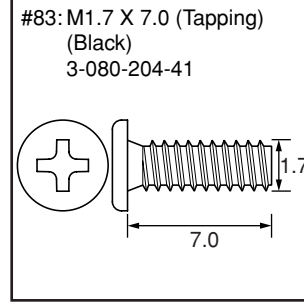
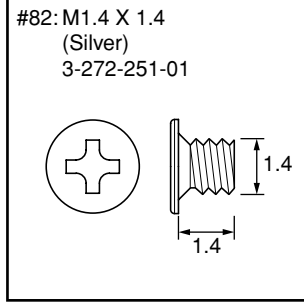
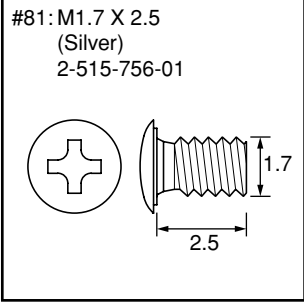
#77: M1.2 X 5.0 (Tapping)
(Silver)
3-086-156-31

#78: M1.4 X 3.5
(Red)
3-208-537-11

#79: M1.4 X 2.0
(Silver)
2-587-151-11

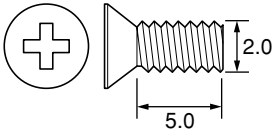
#80: M1.4 X 2.0
(Black)
3-279-411-01

HARDWARE LIST (5/6)

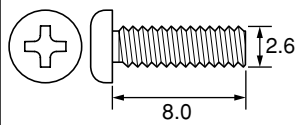


HARDWARE LIST (6/6)

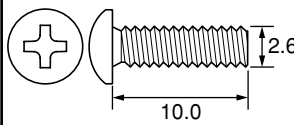
#101: M2.0 X 5.0
(Silver)
7-621-555-39



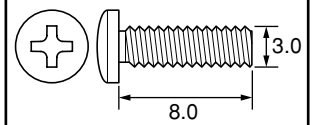
#102: M2.6 X 8.0
(Black)
7-621-284-30



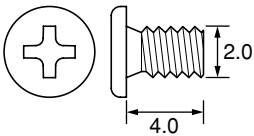
#103: M2.6 X 10.0
(Silver)
7-685-794-09



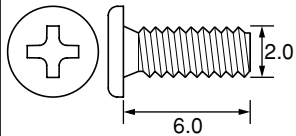
#104: M3.0 X 8.0
(Black)
7-682-548-09



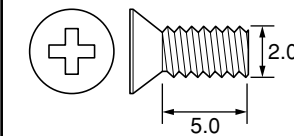
#105: M2.0 X 4.0
(Red)
2-891-494-31



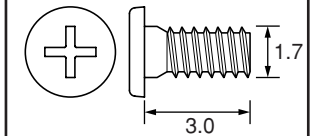
#106: M2.0 X 6.0
(Black)
3-713-786-11



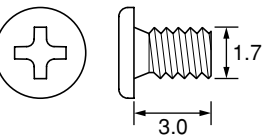
#107: M2.0 X 5.0
(Silver)
3-032-750-01



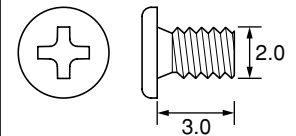
#108: M1.7 X 3.0 (Tapping)
(Black)
2-695-430-01



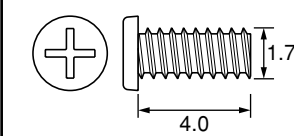
#109: M1.7 X 3.0
(Black)
2-515-483-21



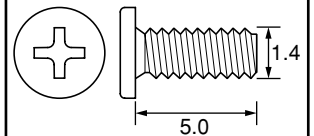
#110: M2.0 X 3.0
(Black)
2-630-005-21



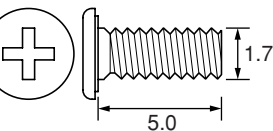
#111: M1.7 X 4.0 (Tapping)
(Black)
2-887-124-01



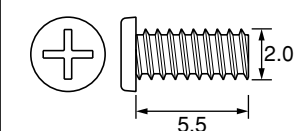
#112: M1.4 X 5.0
(Black)
2-178-410-11



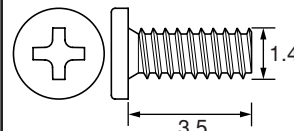
#113: M1.7 X 5.0
(Black)
2-635-562-41



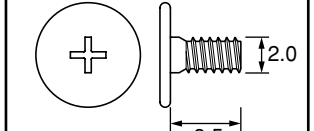
#114: M2.0 X 5.5 (Tapping)
(Silver)
2-698-464-01



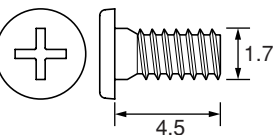
#115: M1.4 X 3.5 (Tapping)
(Silver)
3-348-998-51



#116: M2.0 X 3.5 (Tapping)
(Silver)
2-695-435-01



#117: M1.7 X 4.5 (Tapping)
(Silver)
2-695-429-31



Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2007.12	Official Release	—	—
1.1	2008.01	Revised-1 (A1 DI07-259)	<ul style="list-style-type: none"> • Correction of Repair Parts S.M. revised: Page 2-12 , HELP 20 , Page 5-10 , Page 5-12	Yes
1.2	2008.05	Supplement-1 (S1 DI08-081)	<ul style="list-style-type: none"> • Addition of Korea Model • Change of Disassembly • Change of Board's Suffix No. • Change of Repair Parts • Addition of LCD Type (SONY TYPE) • Revision of Accessories S.M. revised: Page 5-25	Yes
1.3	2008.06	Supplement-2 (S2 DI08-123)	<ul style="list-style-type: none"> • Addition of Korea Model • Change of Board's Suffix No. • Change of Repair Parts • Change of Disassembly • Addition of LCD Type (SONY TYPE) • Revision of Accessories S.M. revised: Page 5-25 This SUPPLEMENT-2 is the revised version of SUPPLEMENT-1. Replace the SUPPLEMENT-1 (9-852-244-81) with the SUPPLEMENT-2. Please discard the SUPPLEMENT-1.	Yes