

DSLR-A900

RMT-DSLR1

SERVICE MANUAL

LEVEL 2

Ver. 1.1 2009.01

Revision History



*US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong 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 and interchangeable lenses

Lens All of α Lens (except for DT lens*)

* Using a DT lens is not guaranteed because the corners of the field are darkened and the camera does not meet the primary AE performance standard. The APS-C size is automatically selected.

[Image sensor]

Total pixel number of camera
Approx. 25 720 000 pixels

Effective pixel number of camera
Approx. 24 610 000 pixels

Image format
35 mm (35.9×24.0) CMOS sensor

ISO sensitivity (Recommended exposure index)
AUTO, 100 to 6400

[SteadyShot]

System Sensor-Shift mechanism

SteadyShot Compensation capability
Approximately 2.5 to 4 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 system with pentaprism

Focusing Screen
Spherical Acute Matte (exchangeable, option)

Frame coverage
Approx. 1

Magnification
0.74 × with 50 mm lens at infinity,
-1 m⁻¹

Eye point
Approximately 20 mm from the eyepiece

Diopter Adjustment
-3.0 to +1.0 m⁻¹

[Auto Focus System]

System TTL phase-detection system, CCD line sensors (with center dual cross-hair sensor, F2.8 sensor)

Ranging point
9 points and 10 supplementary ranging points

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

AF illuminator
Approx. 1 to 7 m (3.3 to 23 feet)

[Exposure]

Metering Cell
40-segment honeycomb-pattern SPC

Metering Range
0 to 20 EV (2 to 20 EV with Spot metering), (at ISO 100 with F1.4 lens)

[Shutter]

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

Speed range 1/8000 second to 30 seconds, bulb

Flash sync speed
1/250 second (SteadyShot deactivated),
1/200 second (SteadyShot activated)

[Recording media]

CompactFlash card (TypeI,II),
Microdrive, "Memory Stick Duo"

[LCD monitor]

LCD panel 7.5 cm (3.0 type) TFT drive

Total number of dots
921 600 (640 × 3 (RGB) × 480) dots

[LCD monitor]

With backlighting

[Power, general]

Used battery pack
Rechargeable battery pack
NP-FM500H

[Others]

PictBridge Compatible

Exif Print Compatible

PRINT Image Matching III
Compatible

Dimensions Approx. 156.3 × 116.9 × 81.9 mm
(6 1/4 × 4 5/8 × 3 1/4 inches)
(W/H/D, excluding protrusions)

Mass Approx. 850 g (1 lb 14 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!!

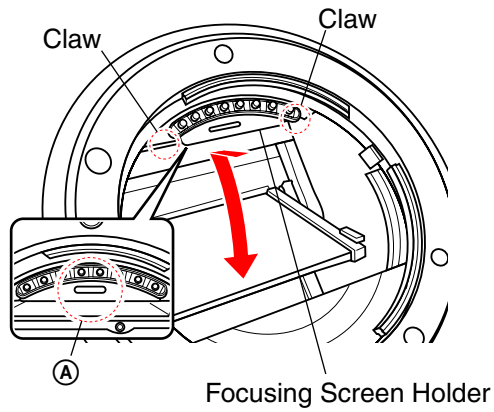
COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

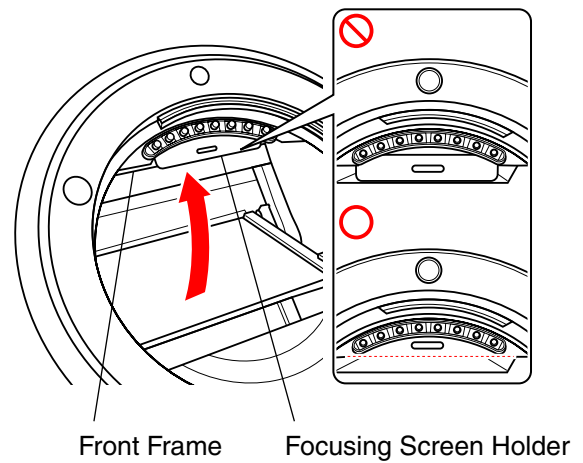
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

1-5. METHOD OF EXCHANGING FOCUSING SCREEN

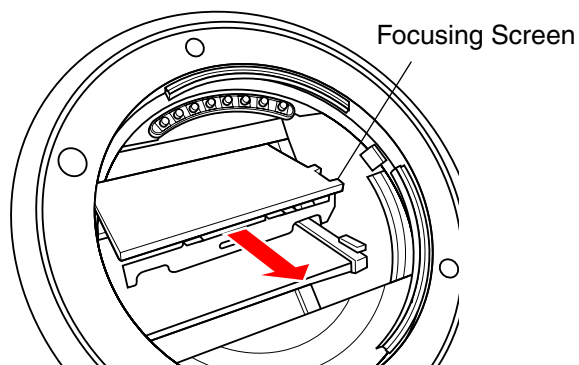
- ① Remove two claws pushing part ① below, and remove focusing screen holder in the direction of arrow.



- ③ Confirm whether the point of the focusing screen holder and the height of front frame become complete after exchanging boards.



- ② Remove focusing screen.



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。

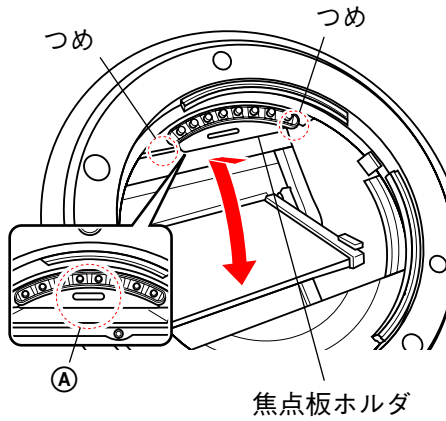
1. 注意事項をお守りください。
サービスのとき特に注意を要する個所については、キャビネット、シャーシ、部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守りください。
2. 指定部品のご使用を
セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。
従って交換部品は、使用されていたものと同じ特性の部品を使用してください。
特に回路図、部品表に△印で指定されている安全上重要な部品は必ず指定のものをご使用ください。
3. 部品の取付けや配線の引きまわしはもとどおりに
安全上、チューブやテープなどの絶縁材料を使用したり、プリント基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

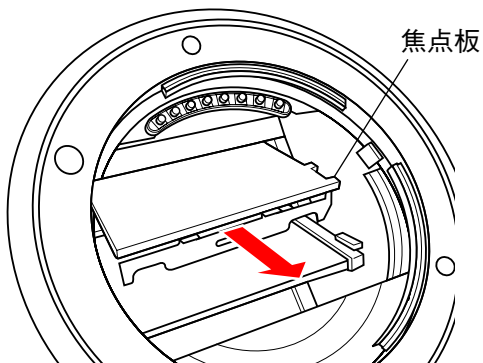
電池の交換は、正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。

1-5. 焦点板の交換方法

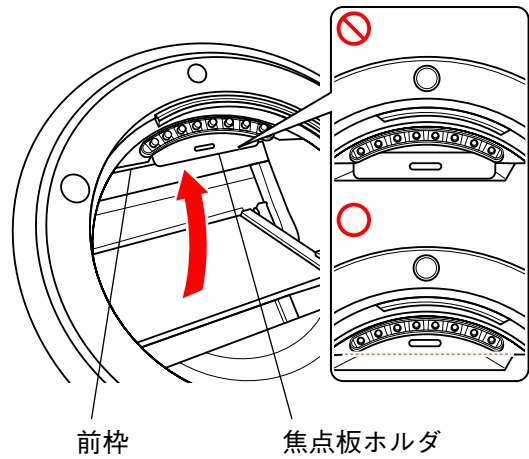
- ① ①部を下に押しつつめ2箇所を外し、矢印方向に焦点板ホルダを外す。



- ② 焦点板を外す。



- ③ 焦点板を交換したあとは、焦点板ホルダの先端と前枠との高さと同じになっているか確認をする。

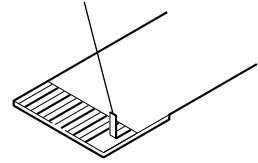


2. DISASSEMBLY

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)



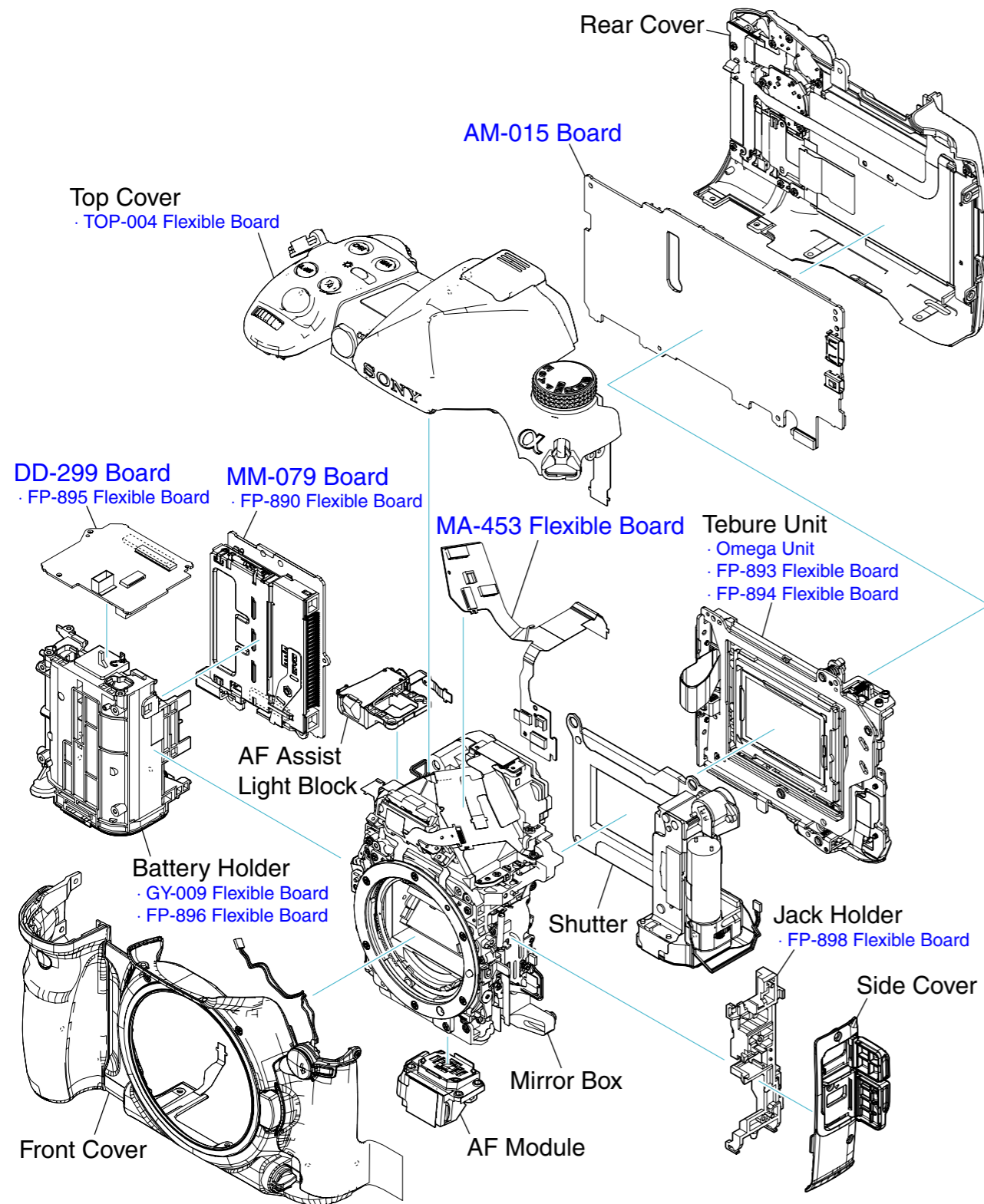
SUBSIDIARY MATERIALS

G: Grease

G-15 (J-6082-619-A)

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

2-1. IDENTIFYING PARTS



- DISASSEMBLY FLOW -

2-2-1. OVERALL SECTION-1

- Side Cover
- Rear Cover
- Top Cover

2-2-2. MAIN BOARD SECTION

- AM-015 Board

2-2-3. OVERALL SECTION-2

- Tebure Unit
- Front Cover

2-2-4. SIDE FRAME SECTION

- MA-453 Flexible Board
- Bottom Frame
- Jack Holder

2-2-5. SHUTTER SECTION

- Shutter
- DD-299 Board

2-2-6. BATTERY HOLDER SECTION

- Battery Holder
- MM-079 Board
- GY-009 Flexible Board

2-2-7. MIRROR BOX SECTION (PENTA UNIT)

- AF Module
- Penta Unit

2-2-8. MIRROR BOX SECTION (SUB UNIT-1)

- Iris Ring
- SLLK Contact Piece Unit
- BL Contact Unit

2-2-9. MIRROR BOX SECTION (SUB UNIT-2)

- Mirror Charge Motor Unit
- Aperture Unit
- AF Driving Unit

2-2. DISASSEMBLY

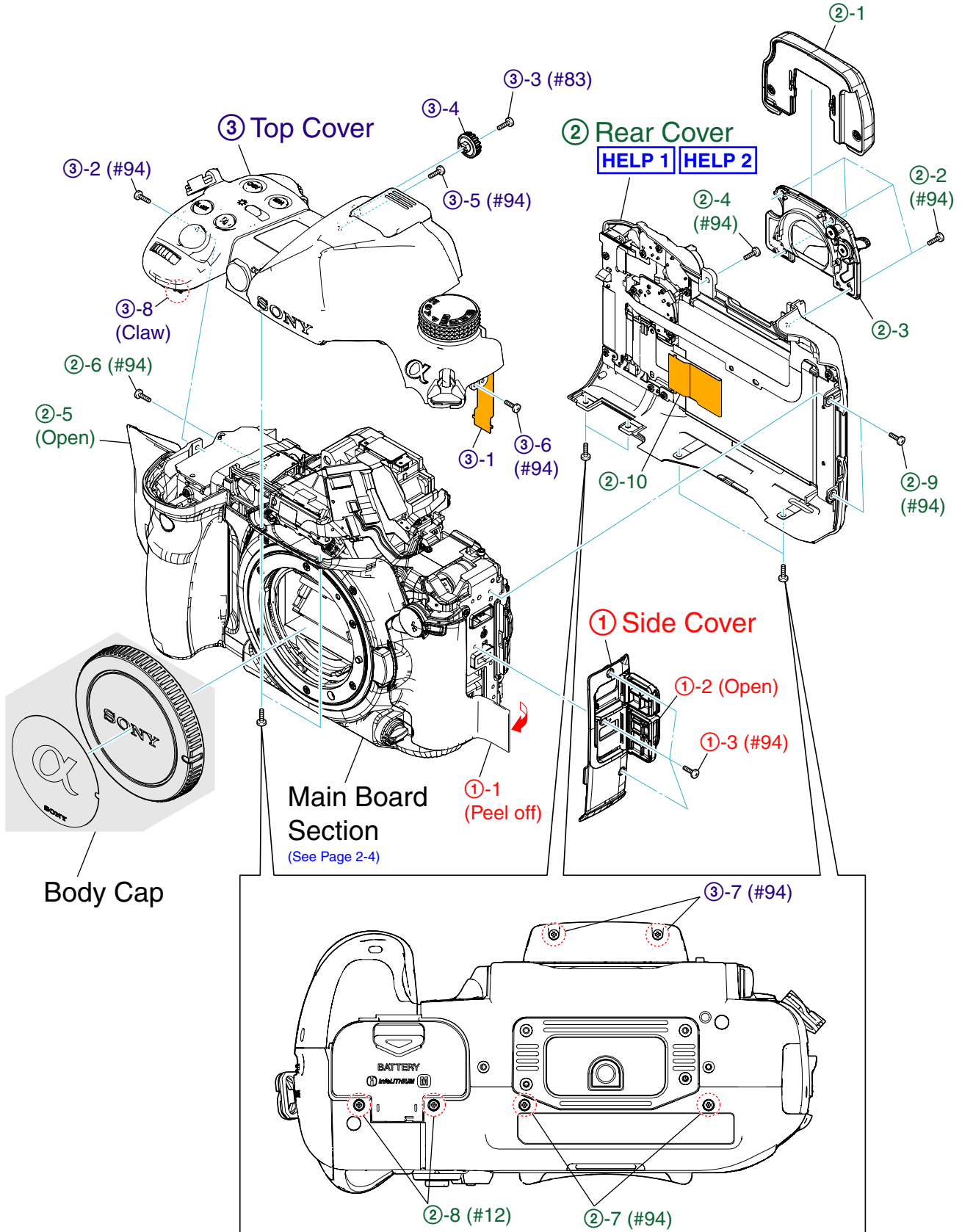
EXPLODED VIEW

HARDWARE LIST

2-2-1. OVERALL SECTION-1

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 Top Cover (③-1 to ③-8)



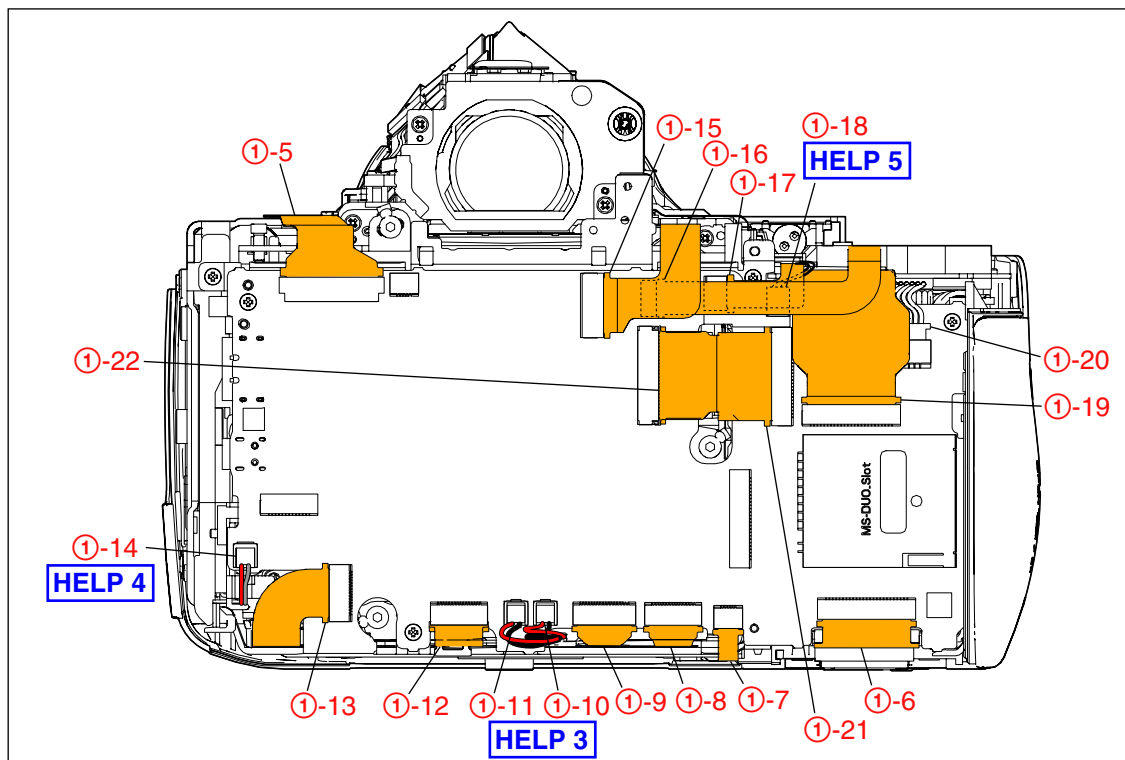
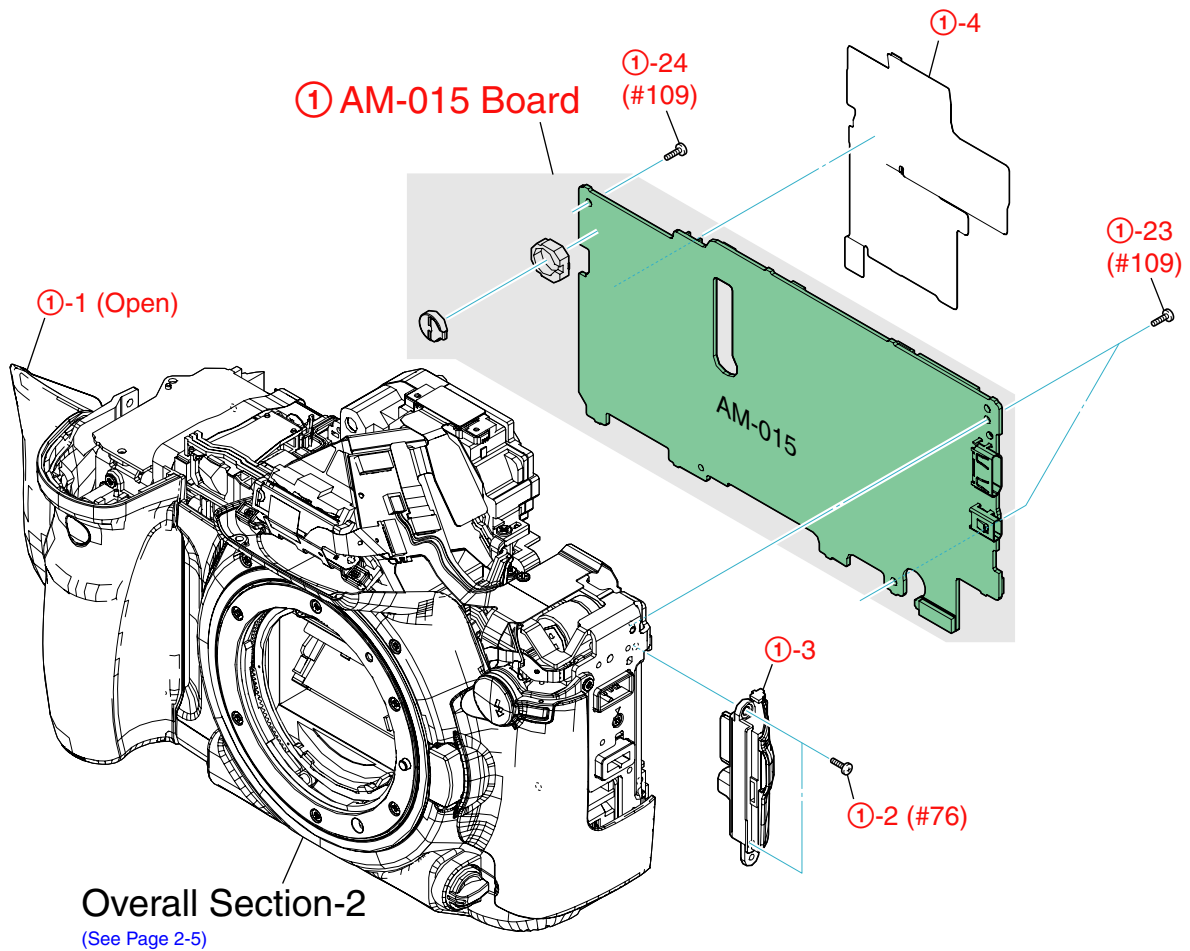
2-2-2. MAIN BOARD SECTION

Follow the disassembly in the numerical order given.

① AM-015 Board (①-1 to ①-24)

EXPLODED VIEW

HARDWARE LIST



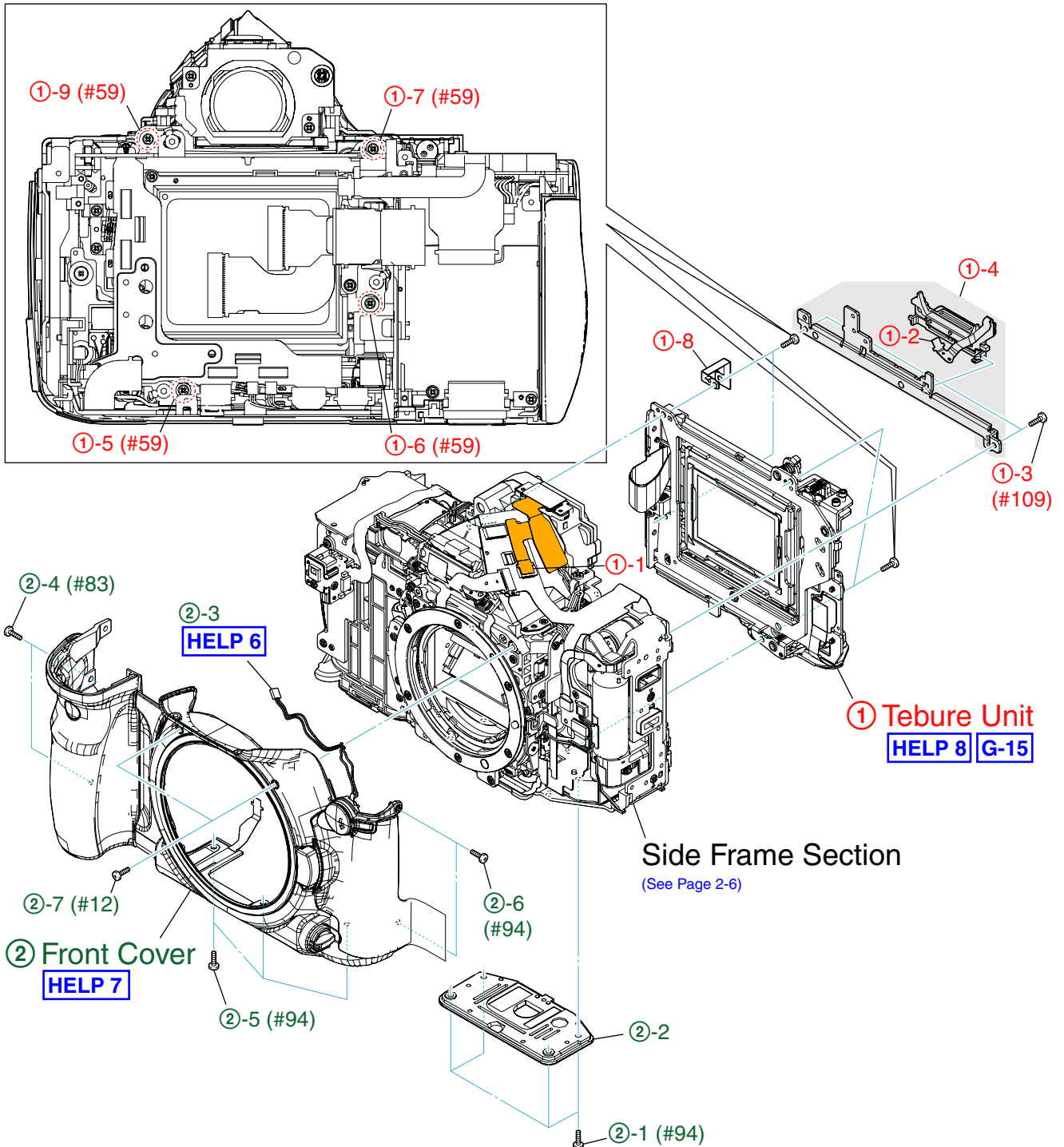
2-2-3. OVERALL SECTION-2

Follow the disassembly in the numerical order given.

- ① Tebure Unit (①-1 to ①-9)
- ② Front Cover (②-1 to ②-7)

EXPLODED VIEW

HARDWARE LIST



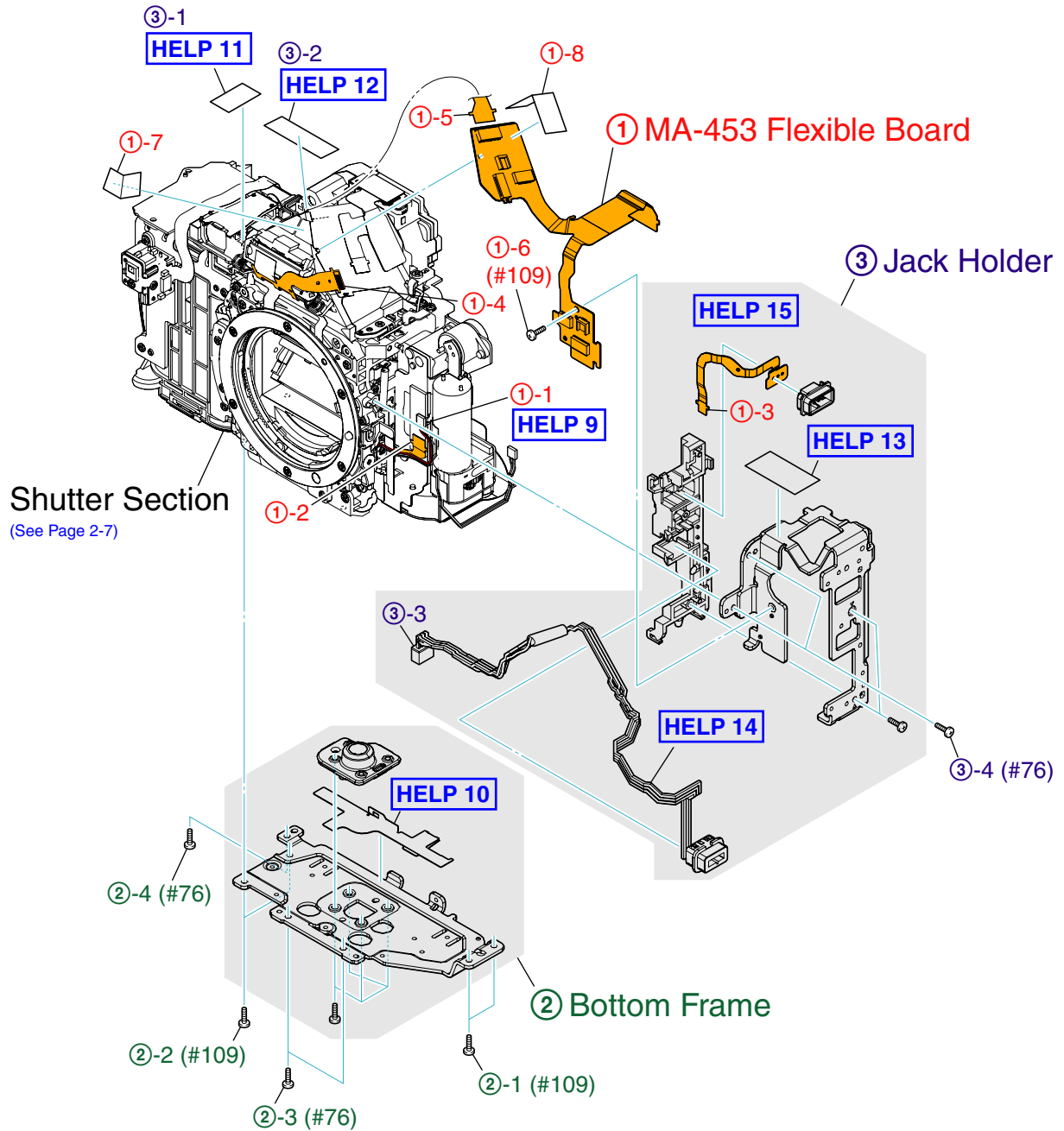
2-2-4. SIDE FRAME SECTION

Follow the disassembly in the numerical order given.

- ① MA-453 Flexible Board (①-1 to ①-8)
- ② Bottom Frame (②-1 to ②-4)
- ③ Jack Holder (③-1 to ③-4)

EXPLODED VIEW

HARDWARE LIST



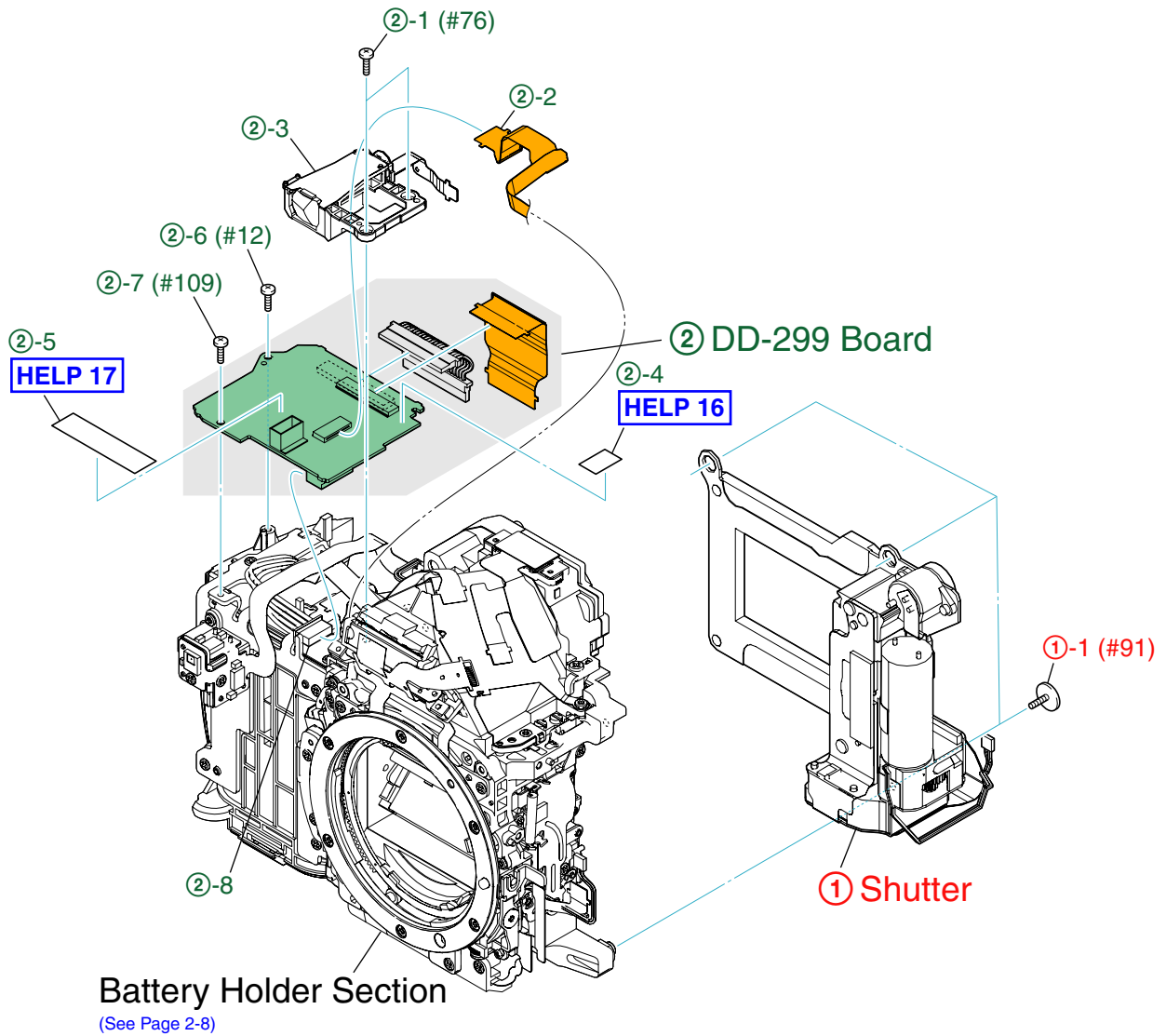
2-2-5. SHUTTER SECTION

Follow the disassembly in the numerical order given.

- ① Shutter (①-1)
- ② DD-299 Board (②-1 to ②-8)

EXPLODED VIEW

HARDWARE LIST



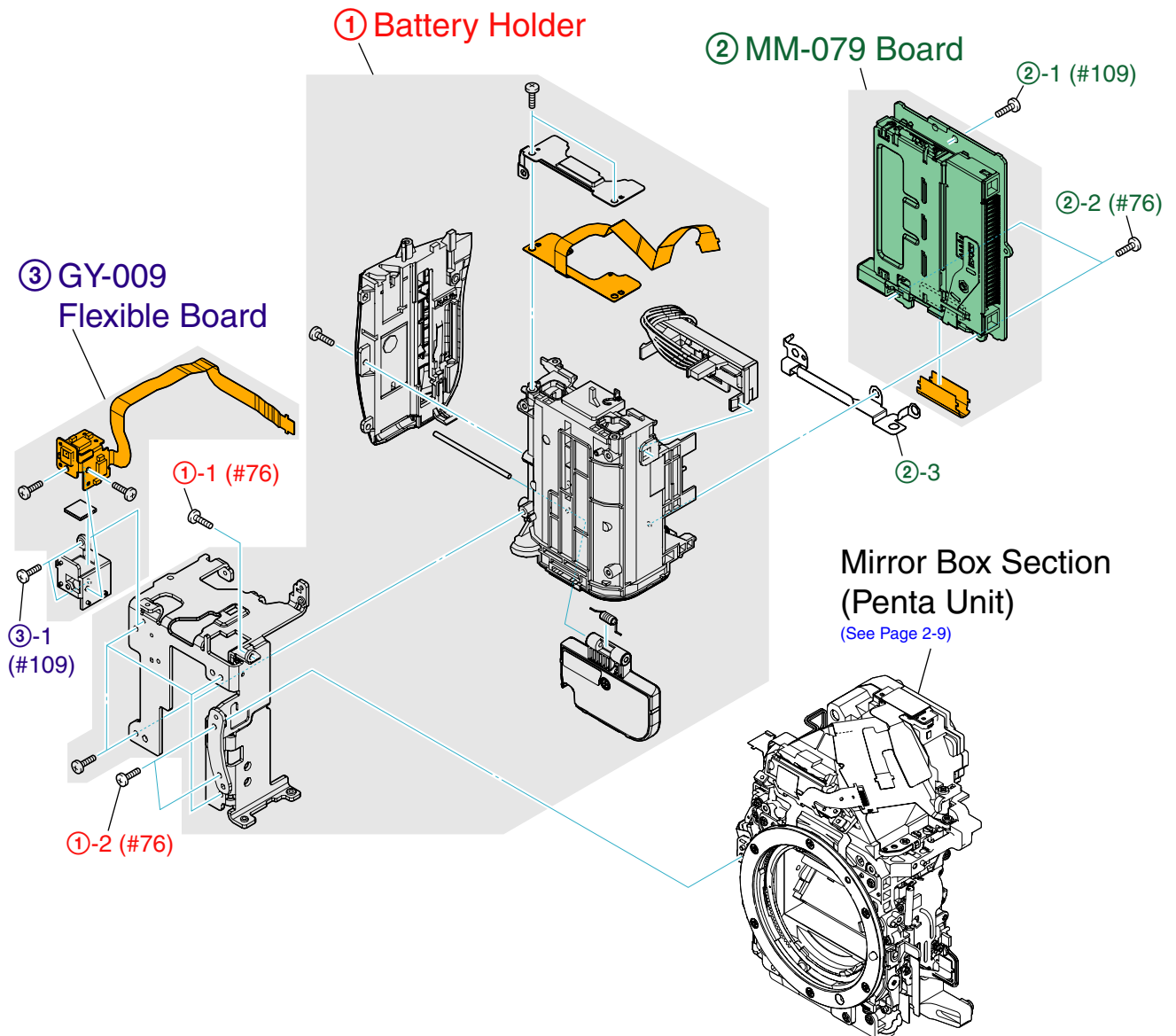
2-2-6. BATTERY HOLDER SECTION

Follow the disassembly in the numerical order given.

- ① Battery Holder (①-1 to ①-2)
- ② MM-079 Board (②-1 to ②-3)
- ③ GY-009 Flexible Board (③-1)

EXPLODED VIEW

HARDWARE LIST



2-2-7. MIRROR BOX SECTION (PENTA UNIT)

Follow the disassembly in the numerical order given.

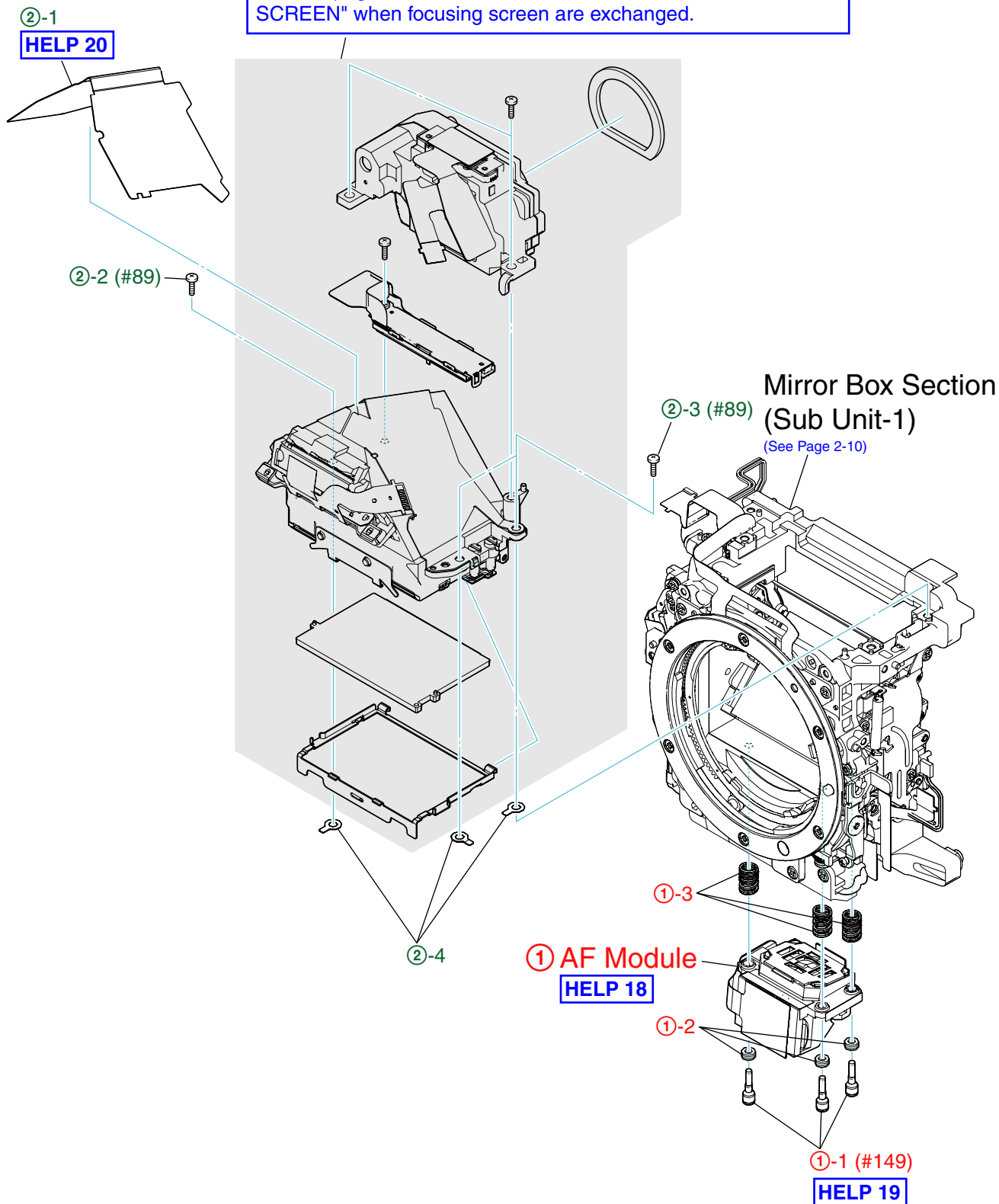
- ① AF Module (①-1 to ①-3)
- ② Penta Unit (②-1 to ②-4)

EXPLODED VIEW

HARDWARE LIST

② Penta Unit

Refer to page 1-2 "1-5. METHOD OF EXCHANGING FOCUSING SCREEN" when focusing screen are exchanged.



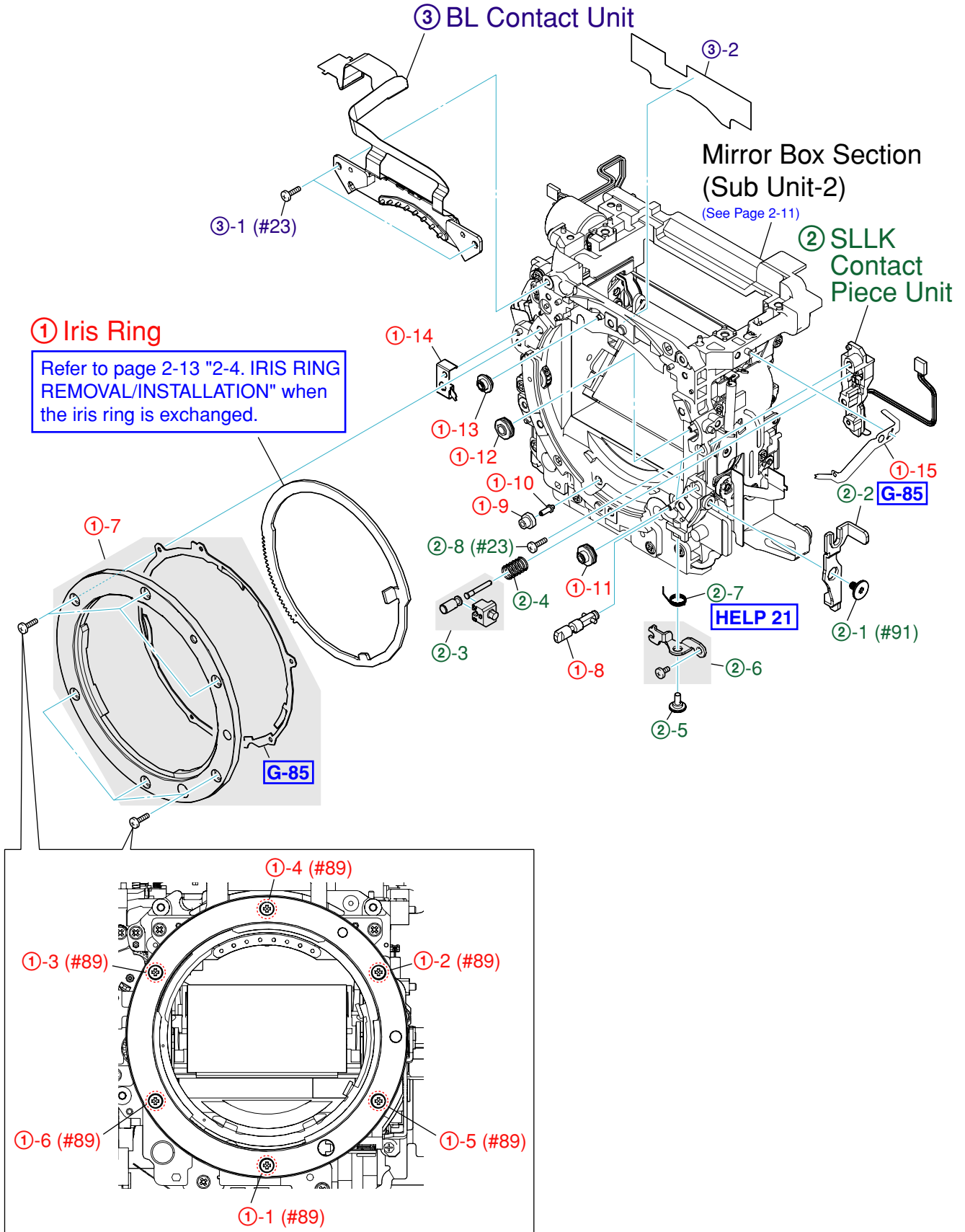
2-2-8. MIRROR BOX SECTION (SUB UNIT-1)

Follow the disassembly in the numerical order given.

- ① Iris Ring (①-1 to ①-15)
- ② SLLK Contact Piece Unit (②-1 to ②-8)
- ③ BL Contact Unit (③-1 to ③-2)

EXPLODED VIEW

HARDWARE LIST



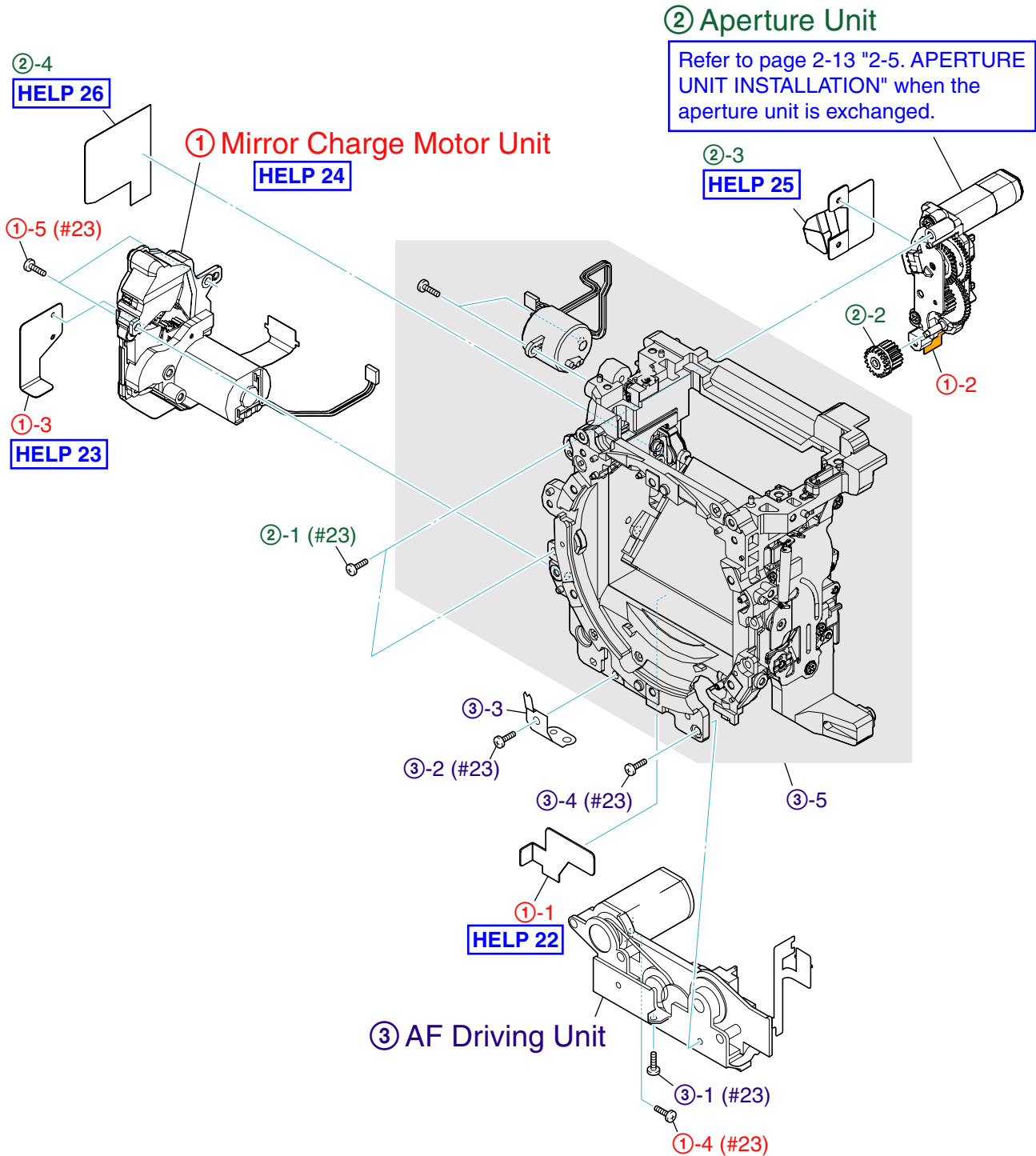
2-2-9. MIRROR BOX SECTION (SUB UNIT-2)

Follow the disassembly in the numerical order given.

- ① Mirror Charge Motor Unit (①-1 to ①-5)
- ② Aperture Unit (②-1 to ②-4)
- ③ AF Driving Unit (③-1 to ③-5)

EXPLODED VIEW

HARDWARE LIST



2-3. IMAGER INCLINATION ADJUSTMENT

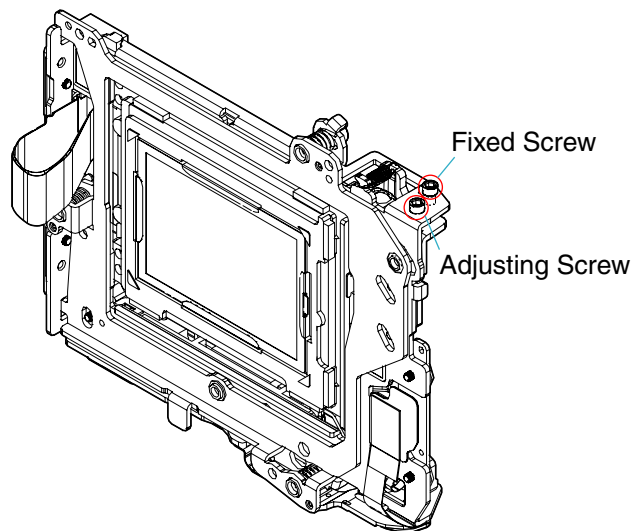
Checking Method

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 ± 0.4 degree, be sure to repair the camera.
 - For the angle above ± 0.2 degree and below ± 0.4 degree, repair the camera according to the user's requirement level.
 - For the angle below ± 0.2 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



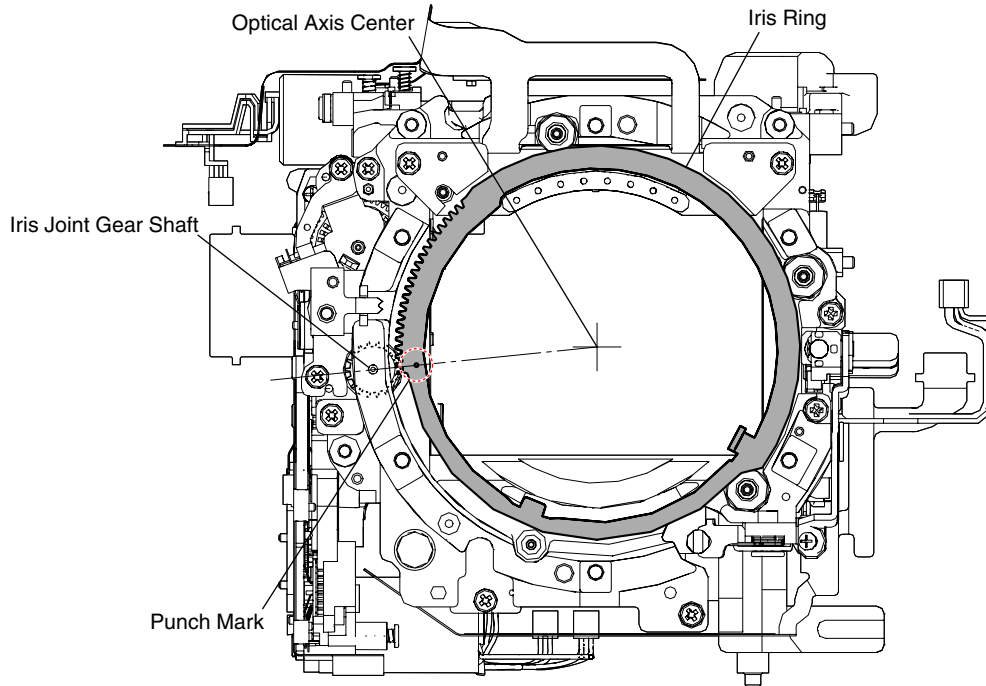
2-4. IRIS RING REMOVAL/INSTALLATION

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 "2-6. 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 its a punch mark aligned with a line that connects the iris joint gear shaft and the optical axis center.



2-5. APERTURE UNIT INSTALLATION

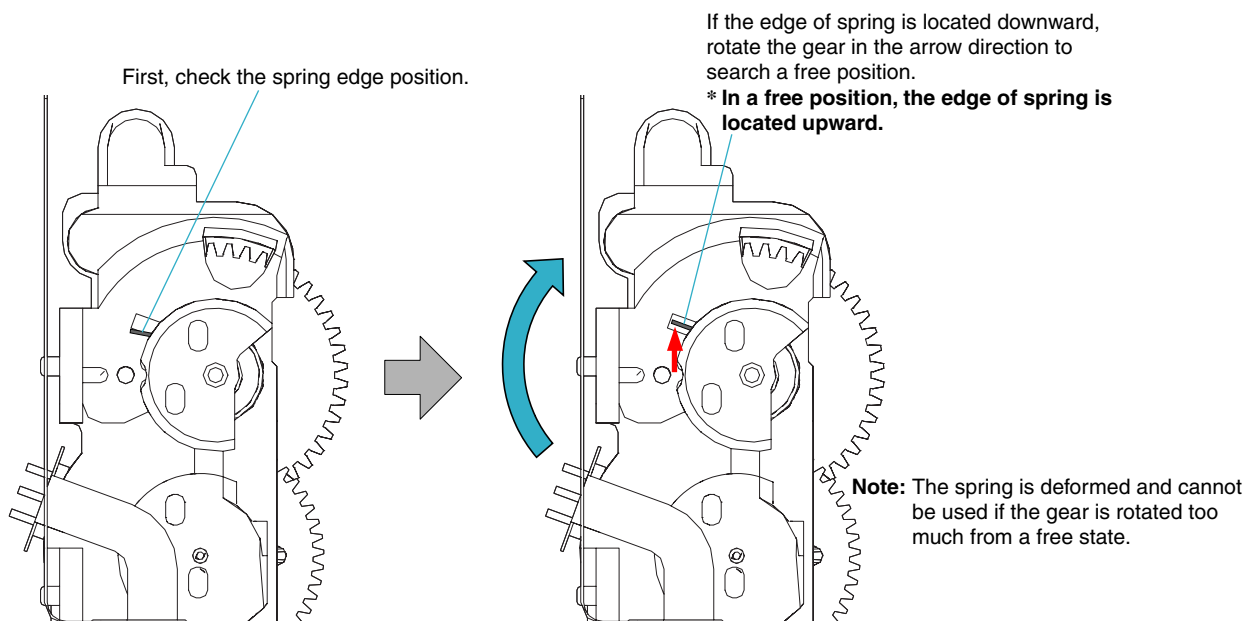
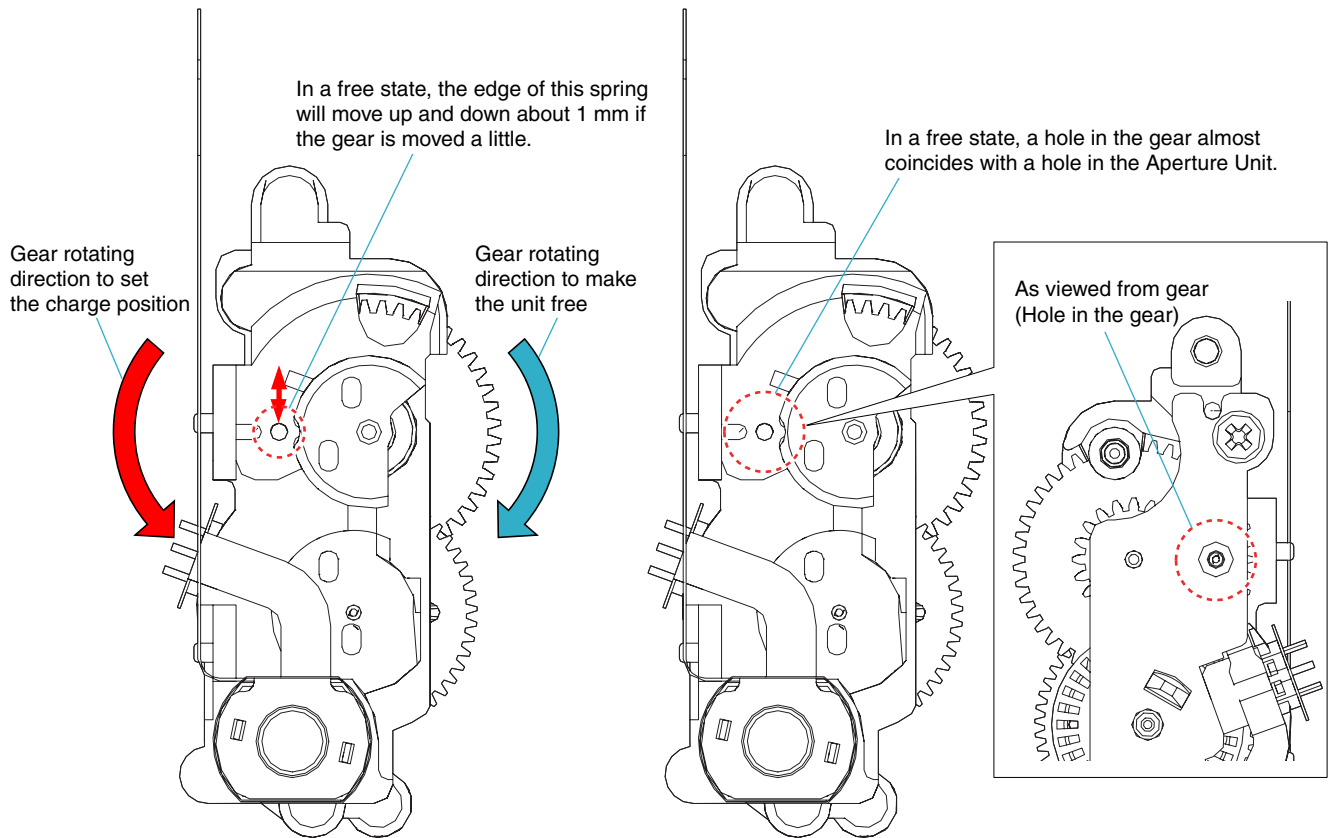
- * The Aperture Unit is supplied by being set in the charge position (initial position), but if this position is disordered when the Aperture Unit is removed, or if the charge position is to be set again, perform as follows.
- * Refer to "2-6. Aperture Unit Charge Position Setting" for the confirm method at the charge position.

2-6. 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 "2-7. Aperture Unit Free Position Setting" for the setting and the confirm method at the free position.

2-7. APERTURE UNIT FREE POSITION SETTING

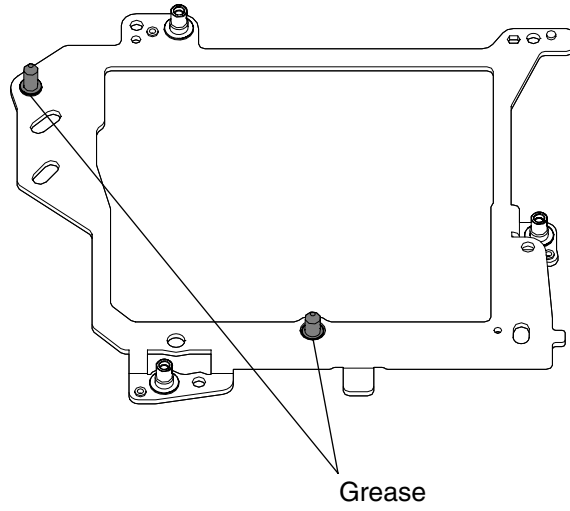
1. Set the Aperture Unit to a free position once, if the gear was rotated accidentally and the charge position is disordered, or if the charge position was shifted during disassembly.



2-8. GREASE APPLICATION AREA

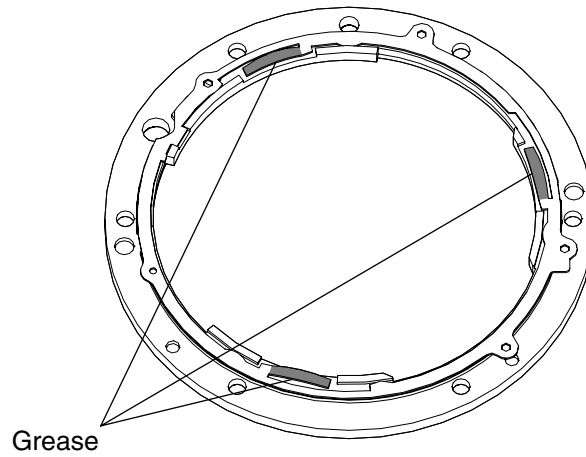
Grease uses G-15 (J-6082-619-A).

Chassis Assy Unit

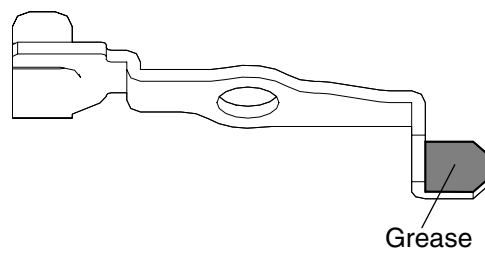


Grease uses G-85 (J-6082-626-A).

Ring (SP)



Coupler Joint Lever



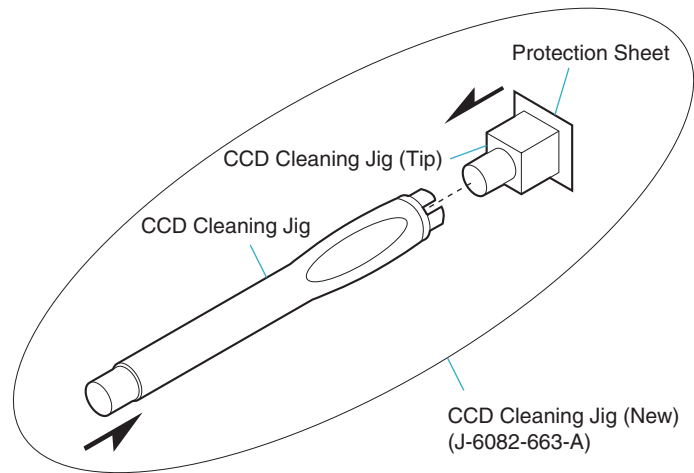
2-9. CLEANING PROCEDURE OF OLPF

<Preparation for Remedy>

If you use the new Jig (J-6082-663-A) below, make sure to clean the CCD Cleaning Jig (Tip) below before using, please.

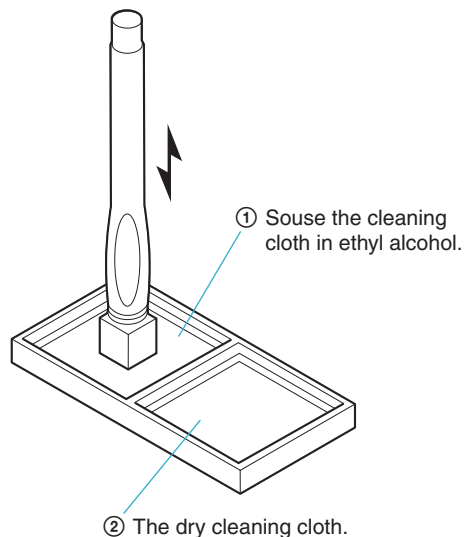
Note: Protection sheet is for preventing the scratch of a surface on the Jig (Tip).

The protection sheet may be come off the Jig when you take the Jig from a bag, but it is no problem.



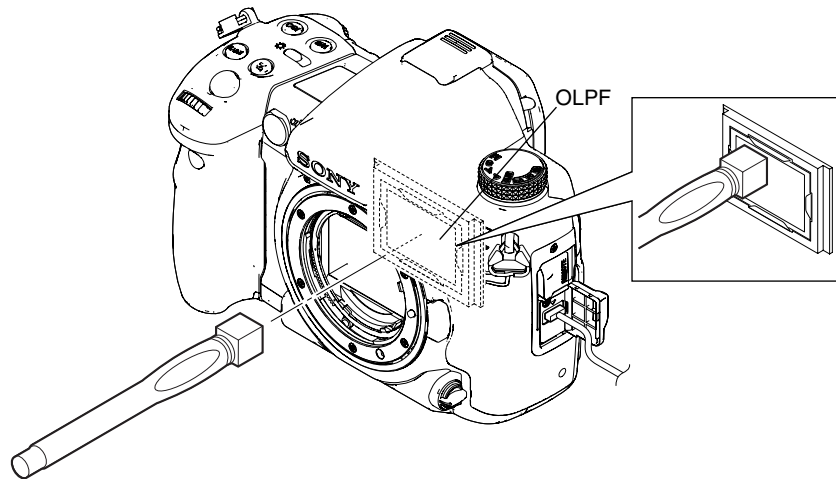
<Cleaning Procedure for Tip of CCD Cleaning Jig>

1. Put the two cleaning cloths on a tray like below.
 - ① Souse the one cleaning cloth in ethyl alcohol.
 - ② Put the other cleaning cloth on a tray as it is dry.
2. Dab the tip of CCD cleaning jig at the cleaning cloth of ① 5 or 6 times.
* Do not slide the tip from right to left or up and down while dabbing.
3. Dab the tip of CCD cleaning jig at the cleaning cloth of ② 5 or 6 times.
* Do not slide from right to left or up and down while dabbing.
4. Wait until the tip will be dried completely.



<Cleaning Procedure for the OLPF>

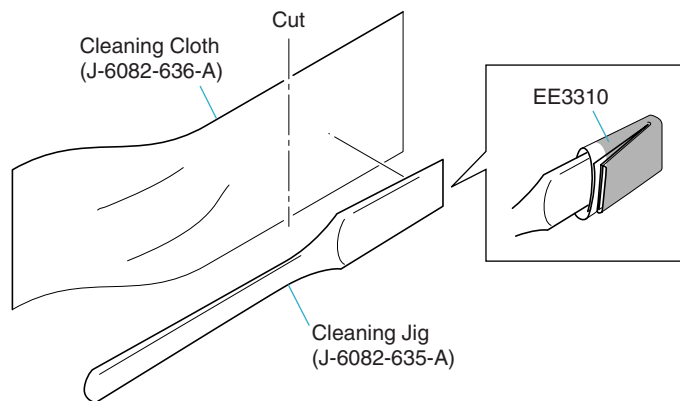
1. Clean up the tip of CCD cleaning jig.
2. Set a camera to a cleaning mode.
3. Dab the tip of CCD cleaning jig at the OLPF, and pull up straight.
* Do not slide from right to left or up and down while dabbing.
4. Repeat "3" several times to clean up.
5. According to service manual, check if there is dirt on the CCD.



<ATTENTION>

If you cannot remove dirt with remedy above, cleaning by the following jig are used.

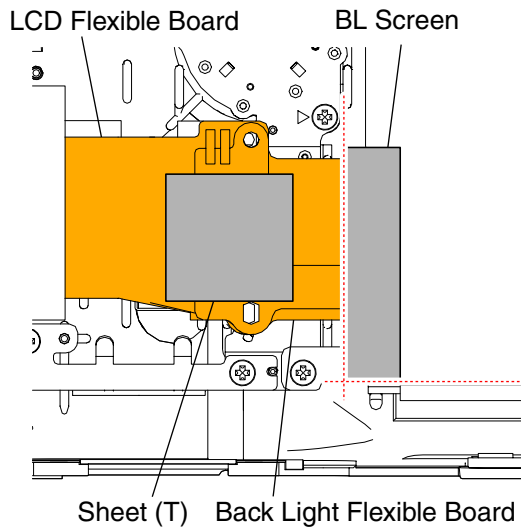
Soak a small amount of EE3310 (Liquid cleaner) after wrapping the cleaning cloth (J-6082-636-A) around the cleaning jig (J-6082-635-A).



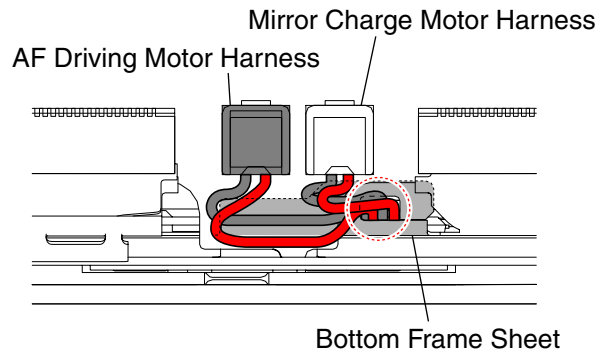
HELP

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

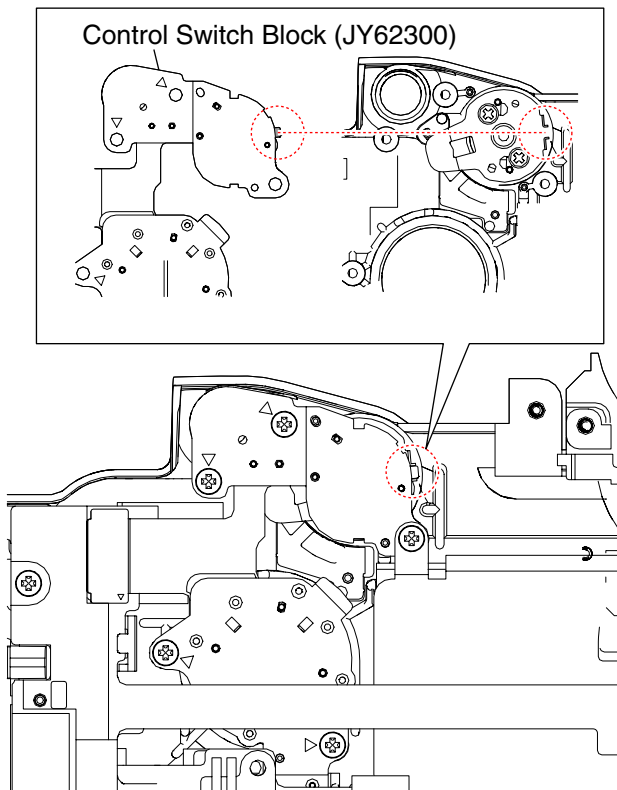
HELP 1: Sheet (T)/BL Screen



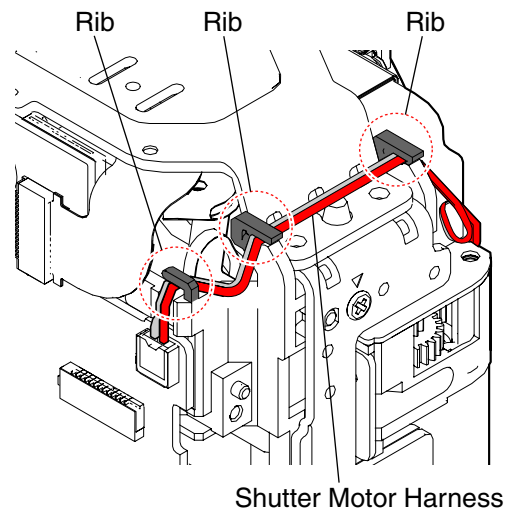
HELP 3: AF Driving/Mirror Charge Motor Harness



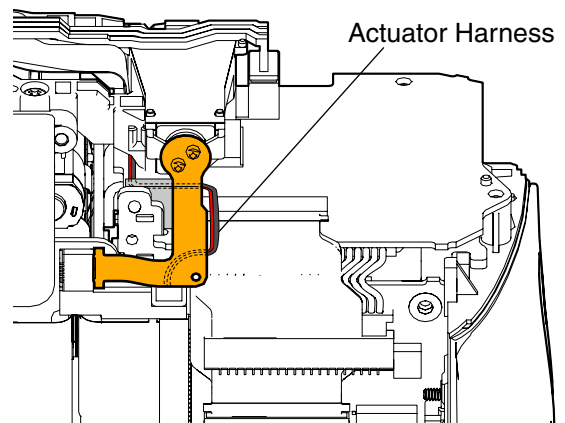
HELP 2: Control Switch Block (JY62300)



HELP 4: Shutter Motor Harness

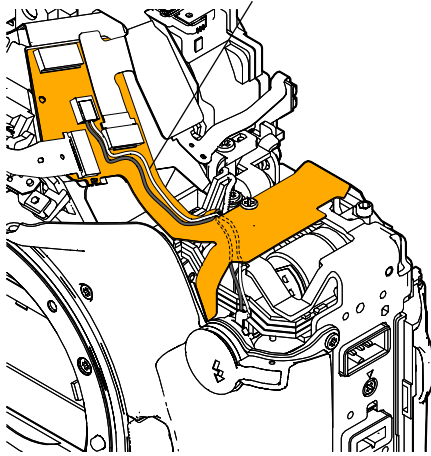


HELP 5: Actuator Harness

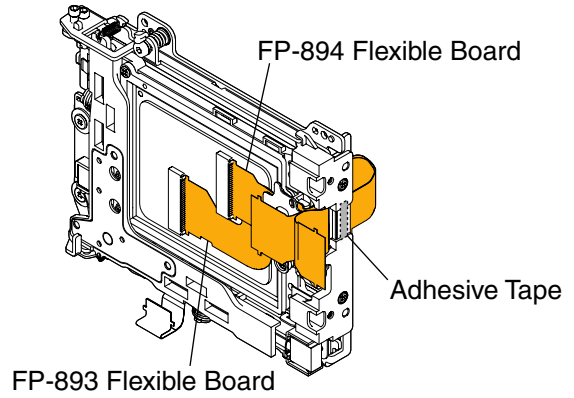


HELP 6: Synchronise Terminal Harness

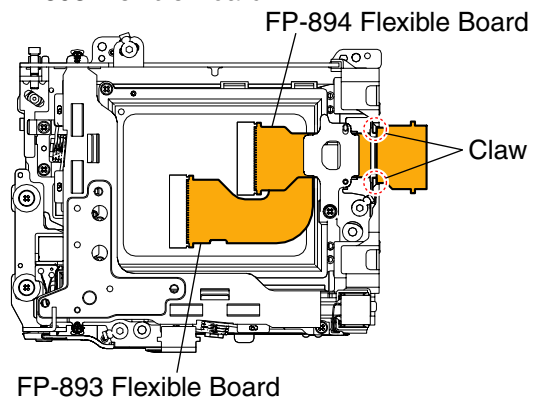
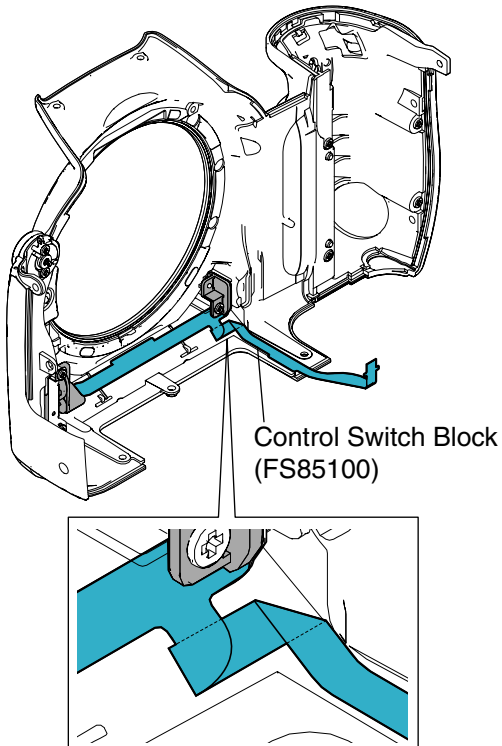
Synchronise Terminal Harness



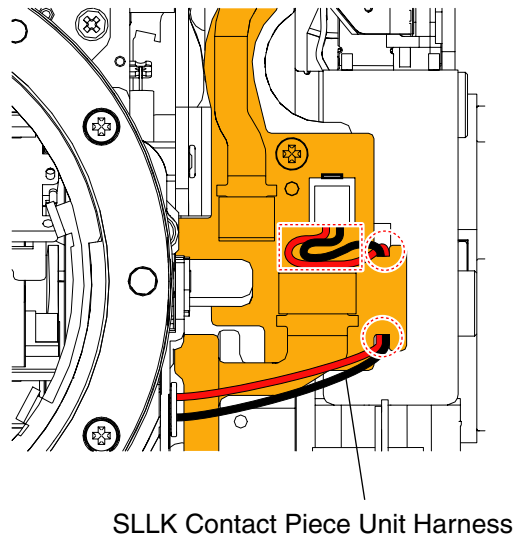
HELP 8: FP-893/FP-894 Flexible Board



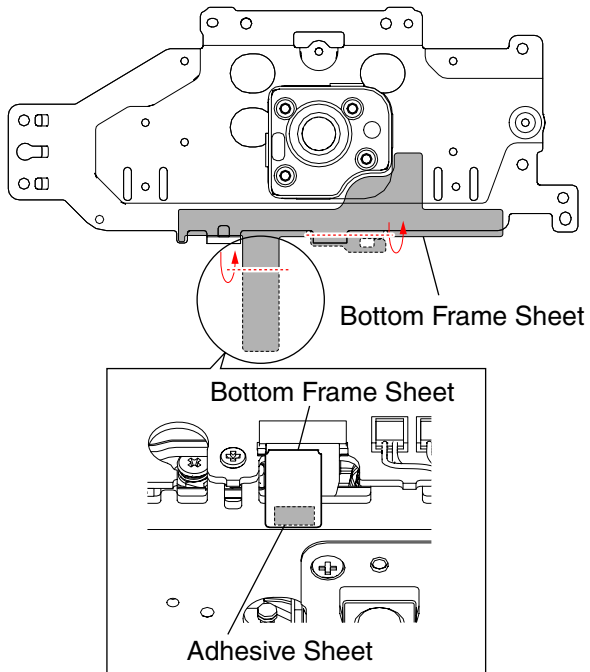
HELP 7: Control Switch Block (FS85100)



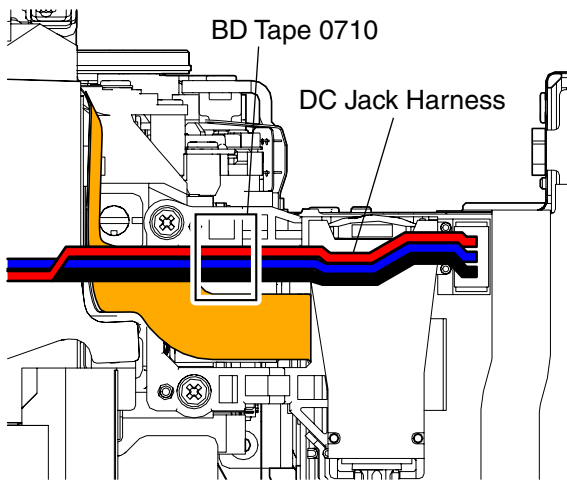
HELP 9: SLLK Contact Piece Unit Harness



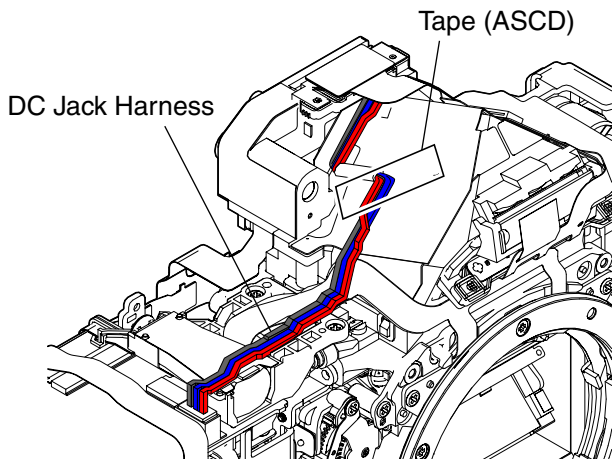
HELP 10: Bottom Frame Sheet



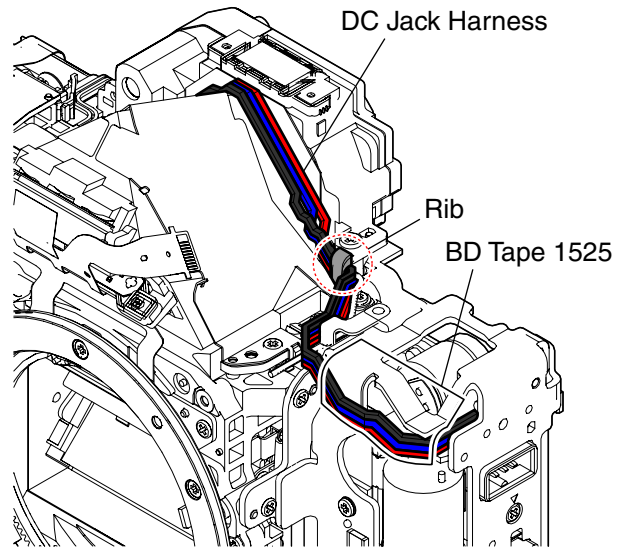
HELP 11: BD Tape 0710/DC Jack Harness



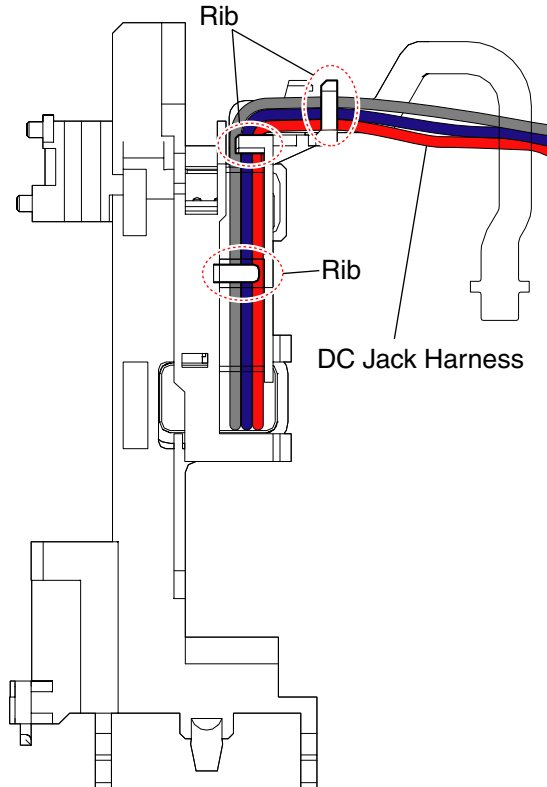
HELP 12: Tape (ASCD)/DC Jack Harness



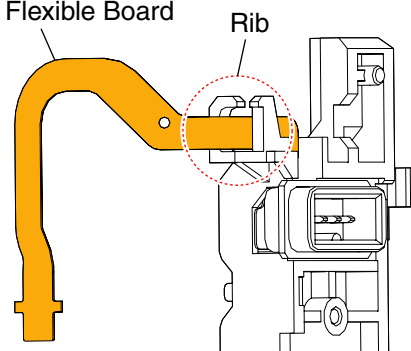
HELP 13: BD Tape 1525/DC Jack Harness



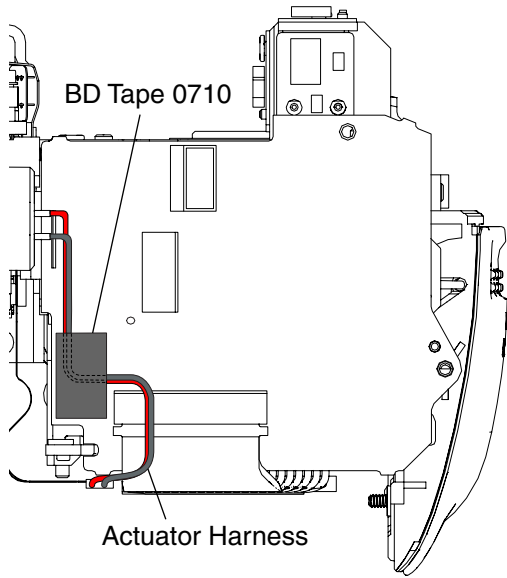
HELP 14: DC Jack Harness



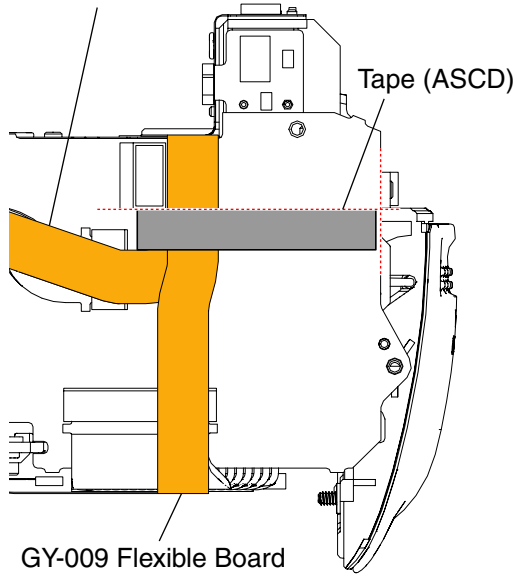
HELP 15: FP-898 Flexible Board



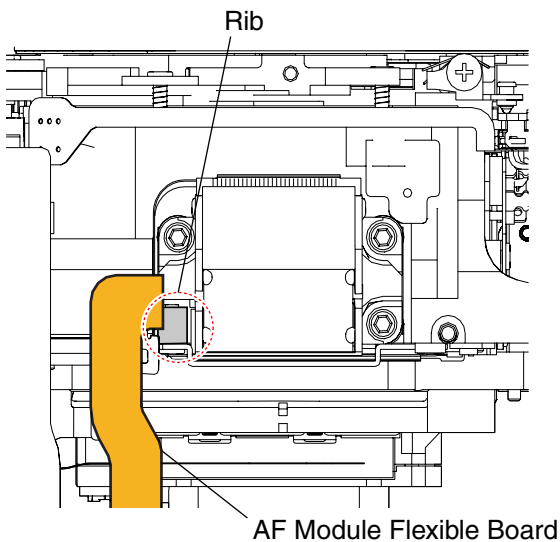
HELP 16: BD Tape 0710/Actuator Harness



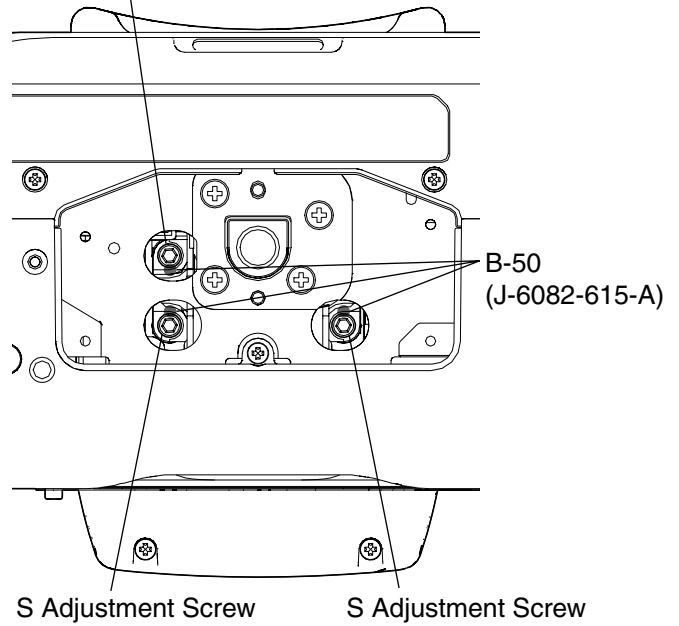
**HELP 17: Tape (ASCD)/
GY-009/FP-896 Flexible Board
FP-896 Flexible Board**



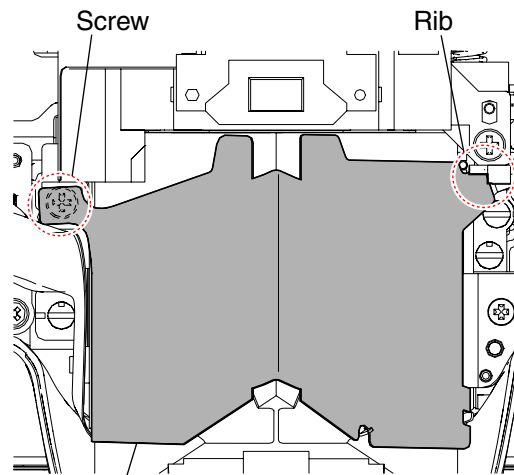
HELP 18: AF Module Flexible Board



**HELP 19: S Adjustment Screw
S Adjustment Screw**

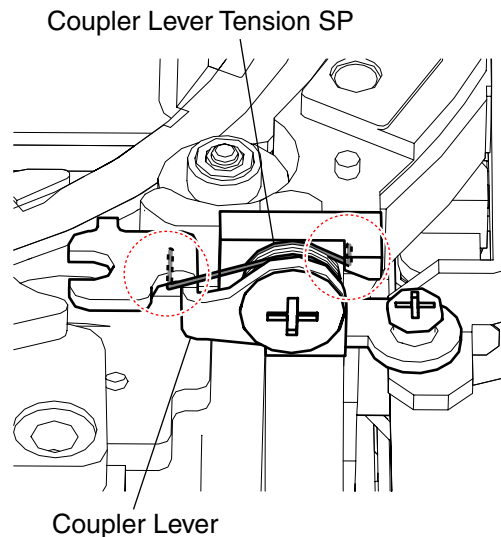


HELP 20: BD Penta Insulation Sheet

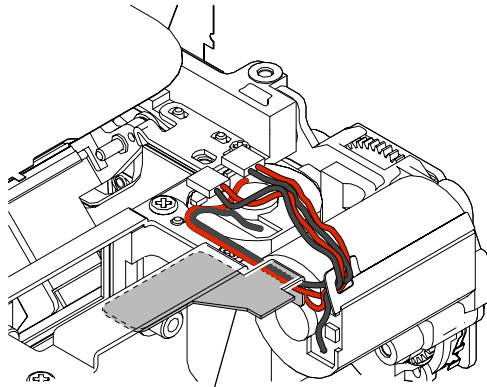


BD Penta Insulation Sheet

HELP 21: Coupler Lever Tension SP



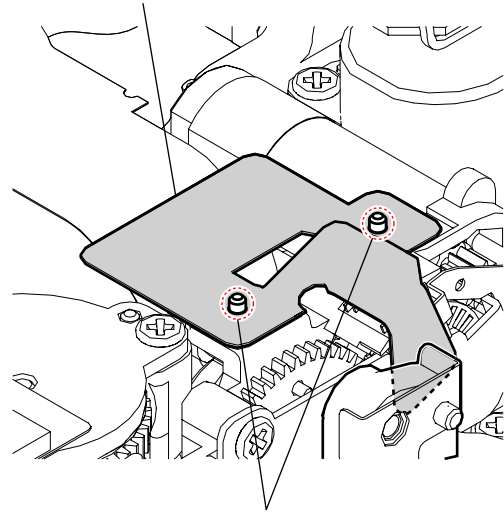
HELP 22: MB Motor Harness Sheet



MB Motor Harness Sheet

HELP 25: AP Flexible Protection Sheet

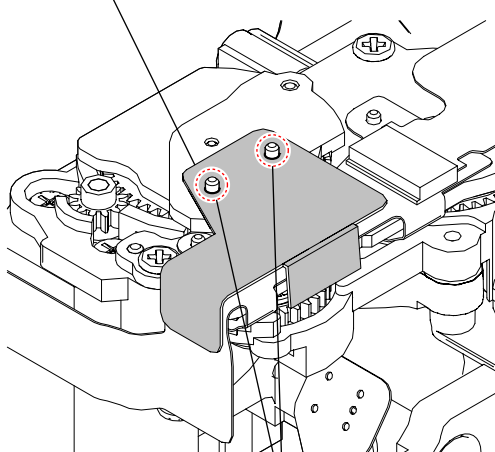
AP Flexible Protection Sheet



Boss

HELP 23: MB Flexible Protection Sheet

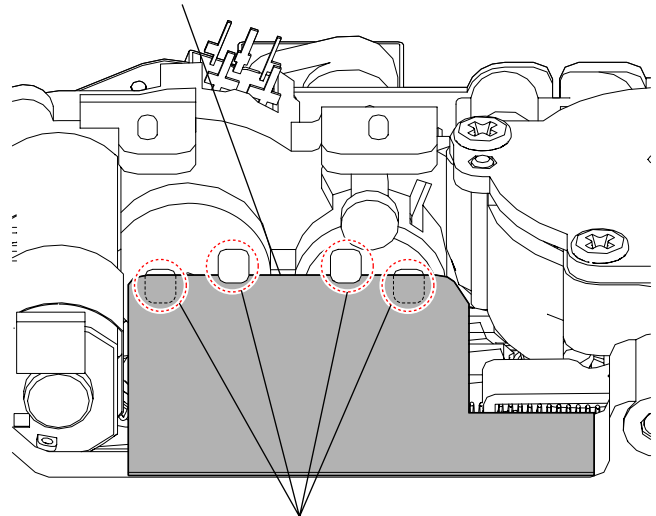
MB Flexible Protection Sheet



Boss

HELP 26: MB IS-Flexible Protection Sheet

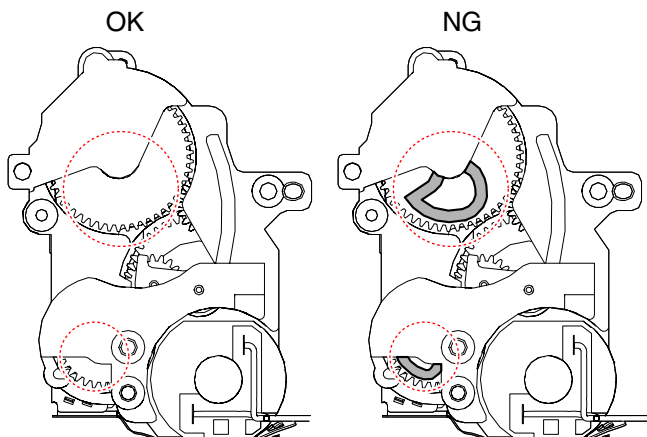
MB IS-Flexible Protection Sheet



Rib

HELP 24: Mirror Charge Motor Unit

Installation Position of Gears



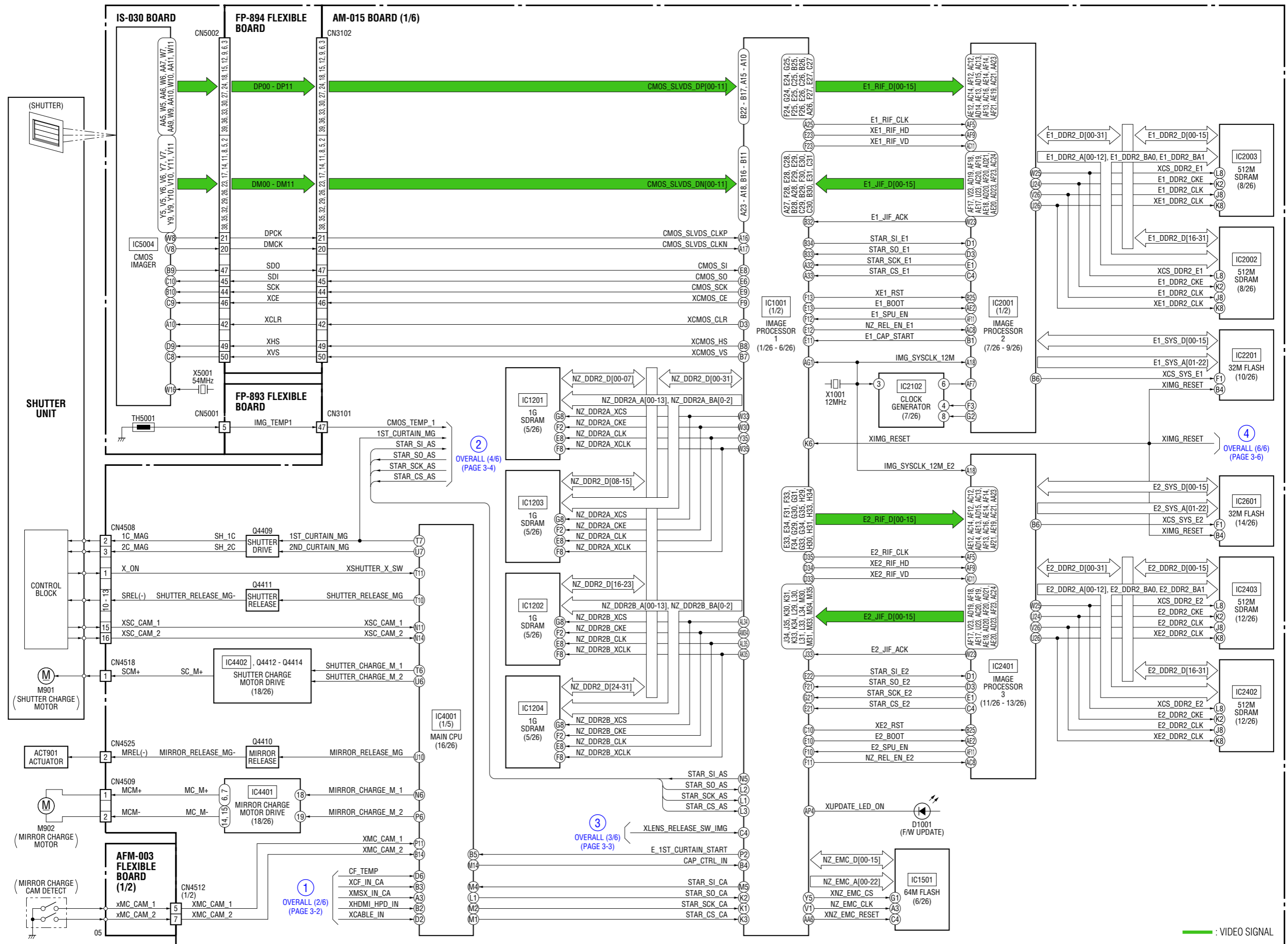
3. BLOCK DIAGRAMS

Link

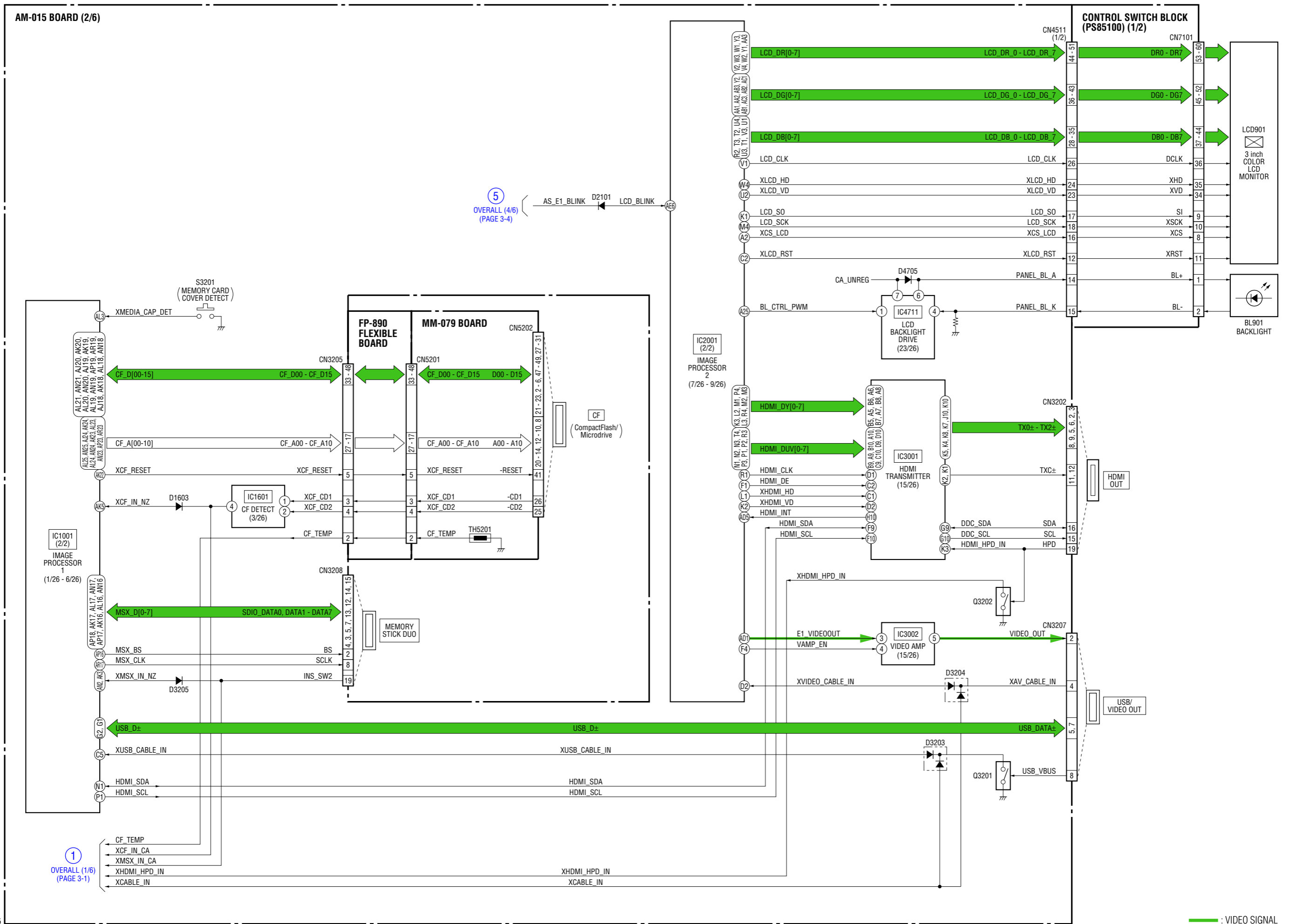
OVERALL BLOCK DIAGRAM (1/6)	POWER BLOCK DIAGRAM (1/6)
OVERALL BLOCK DIAGRAM (2/6)	POWER BLOCK DIAGRAM (2/6)
OVERALL BLOCK DIAGRAM (3/6)	POWER BLOCK DIAGRAM (3/6)
OVERALL BLOCK DIAGRAM (4/6)	POWER BLOCK DIAGRAM (4/6)
OVERALL BLOCK DIAGRAM (5/6)	POWER BLOCK DIAGRAM (5/6)
OVERALL BLOCK DIAGRAM (6/6)	POWER BLOCK DIAGRAM (6/6)

3. BLOCK DIAGRAMS

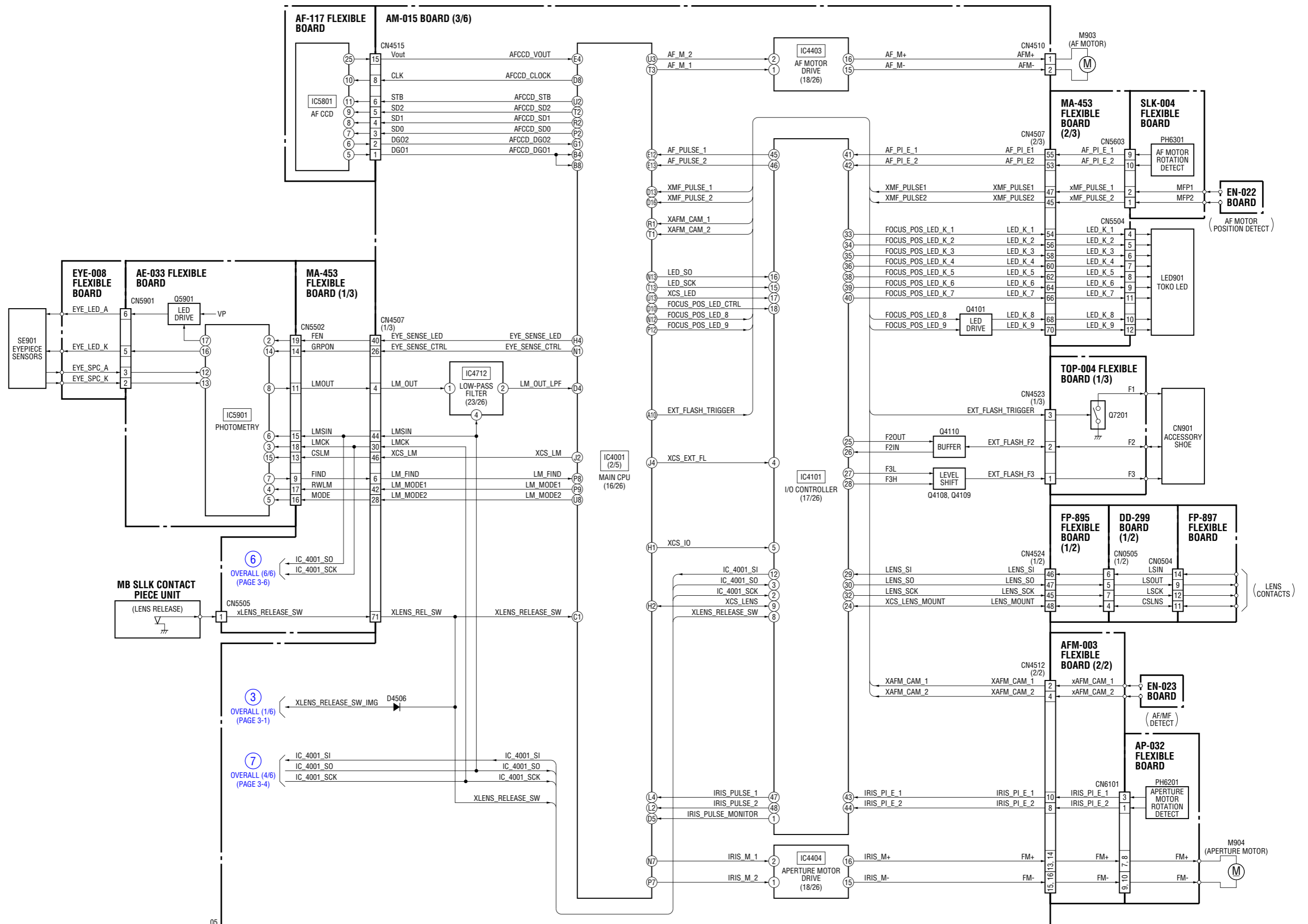
3-1. OVERALL BLOCK DIAGRAM (1/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



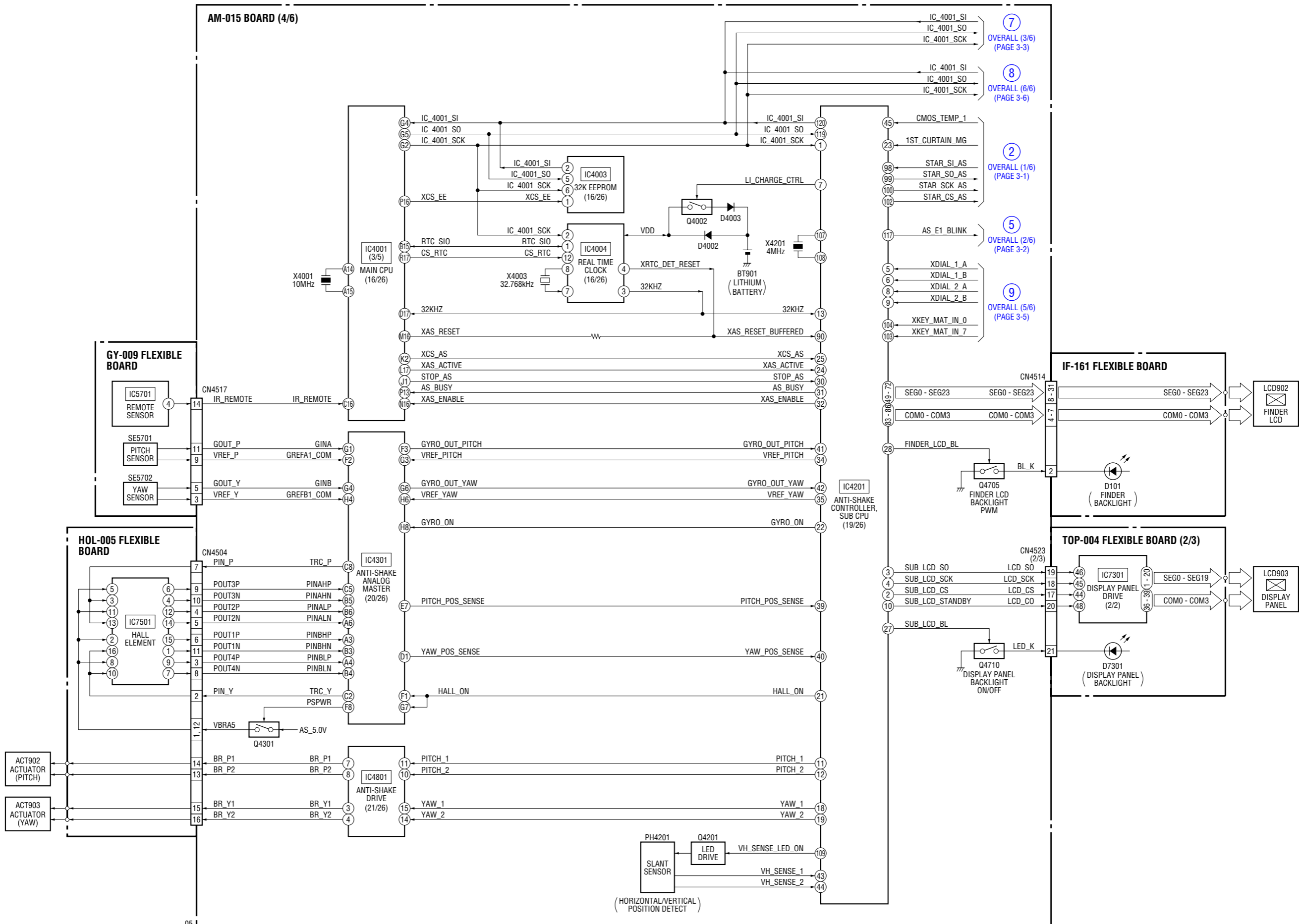
3-2. OVERALL BLOCK DIAGRAM (2/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



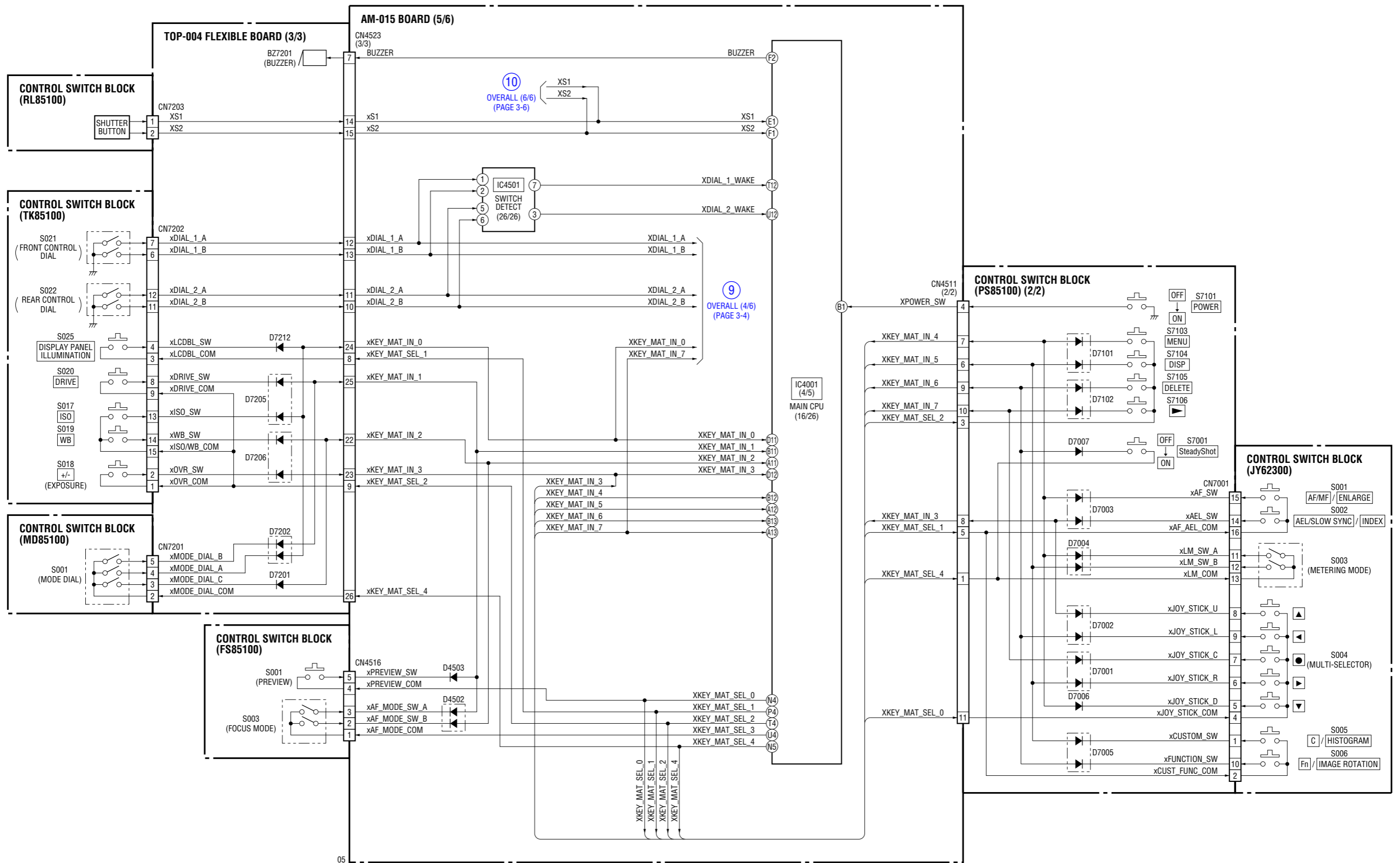
3-3. OVERALL BLOCK DIAGRAM (3/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



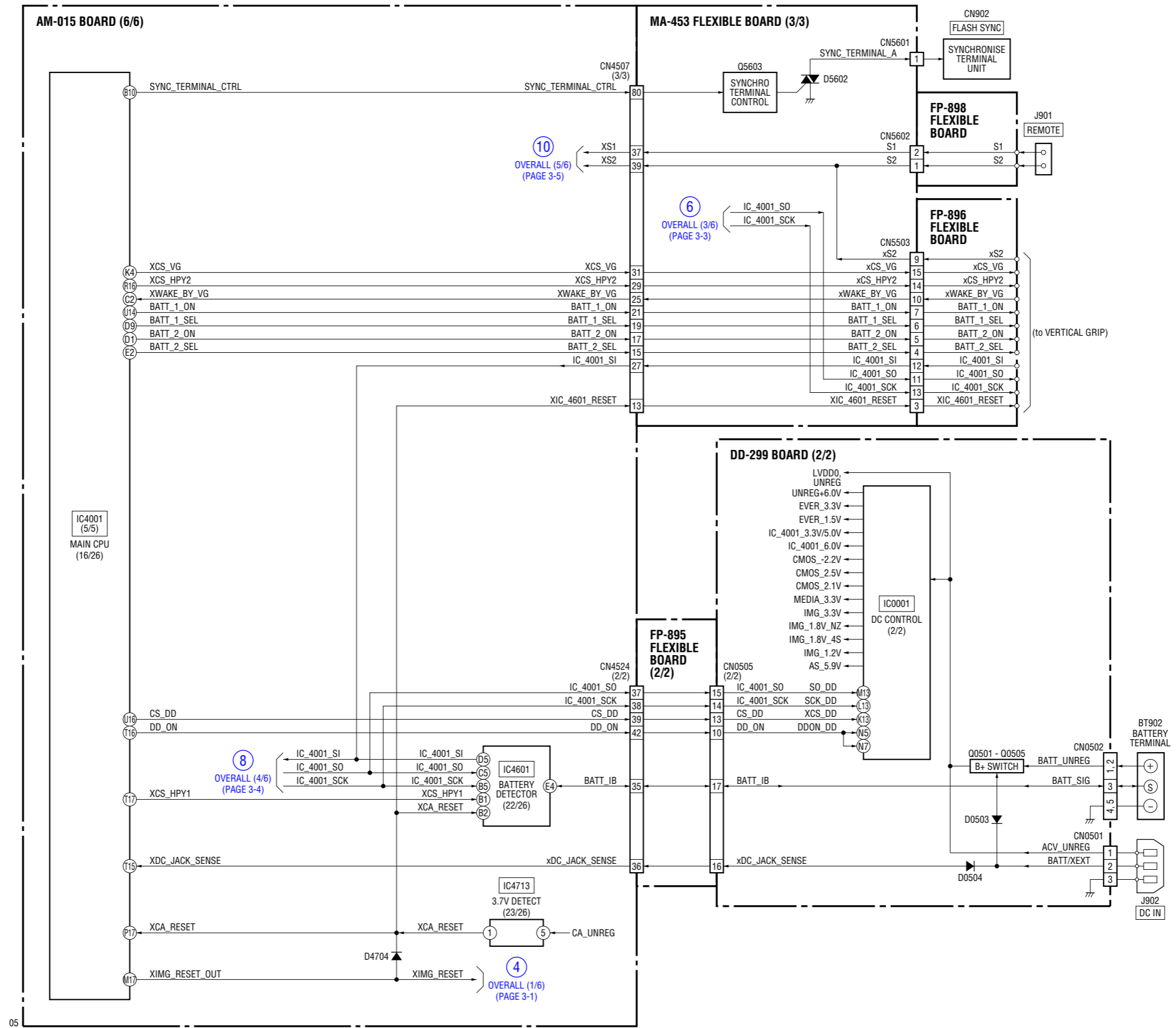
3-4. OVERALL BLOCK DIAGRAM (4/6) (): Number in parenthesis () indicates the division number of schematic diagram where the component is located.



3-5. OVERALL BLOCK DIAGRAM (5/6) (): Number in parenthesis () indicates the division number of schematic diagram where the component is located.

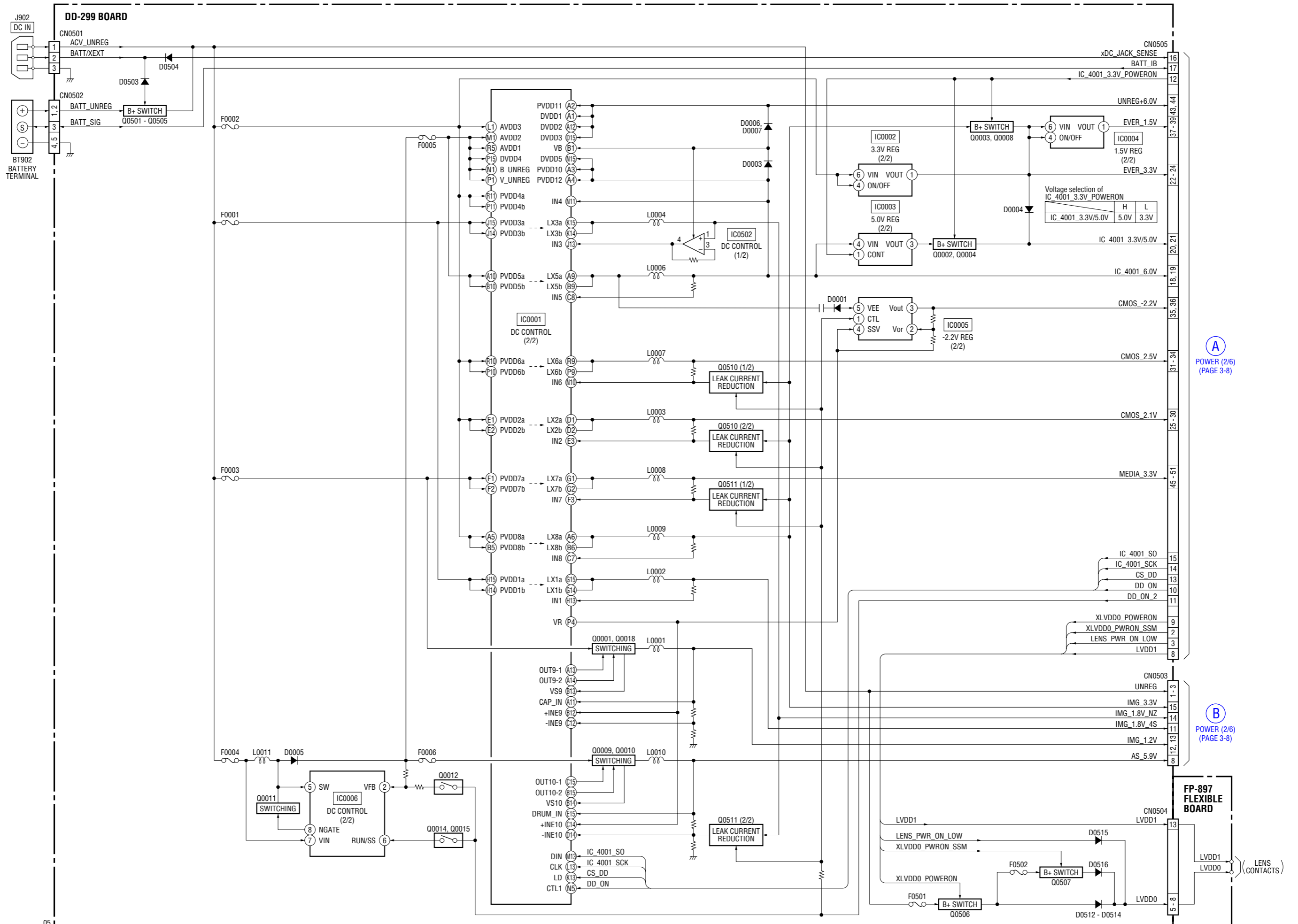


3-6. OVERALL BLOCK DIAGRAM (6/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



3-7. POWER BLOCK DIAGRAM (1/6)

() : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

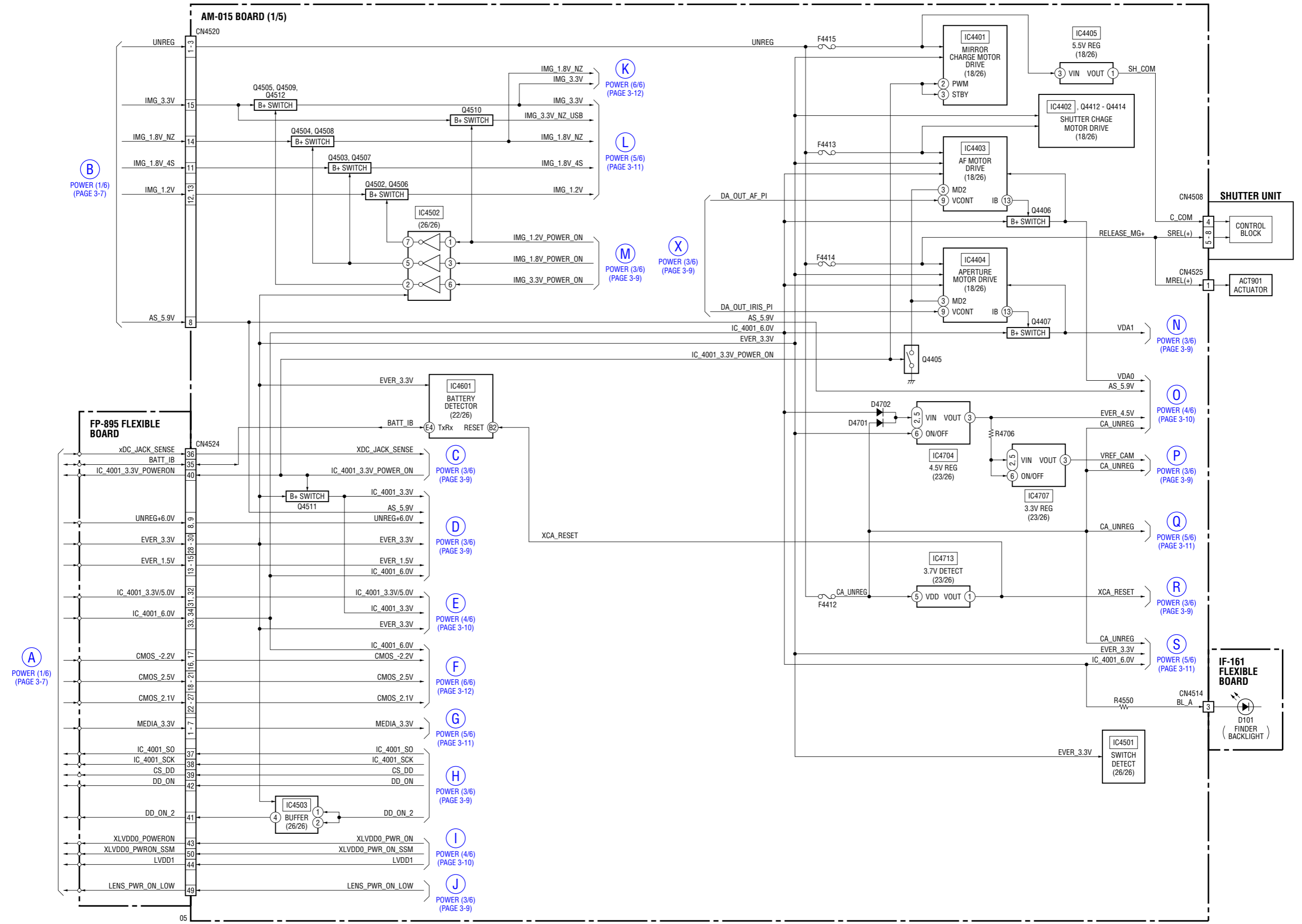


(A)
POWER (2/6)
(PAGE 3-8)

(B)
POWER (2/6)
(PAGE 3-8)

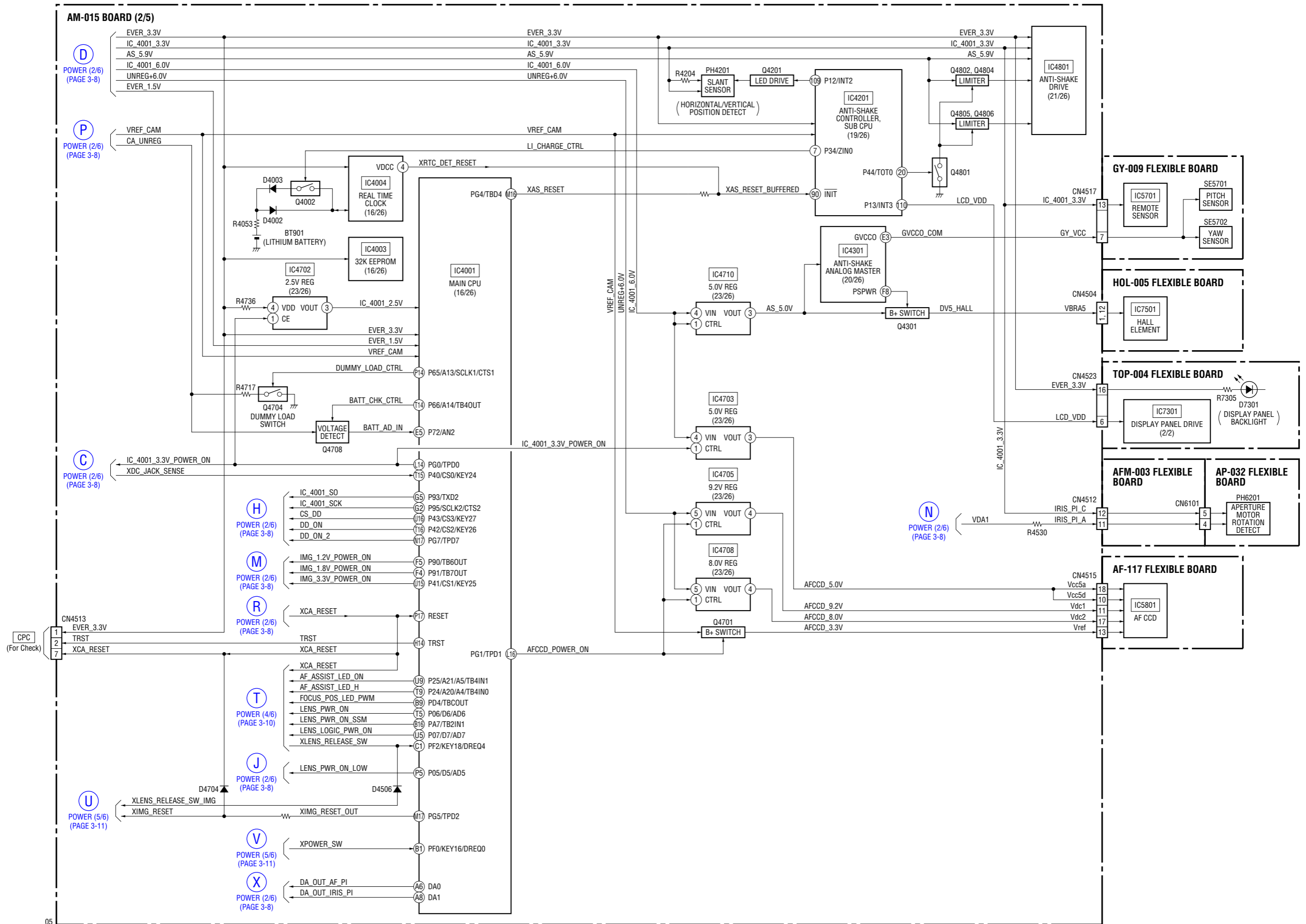
3-8. POWER BLOCK DIAGRAM (2/6)

(): Number in parenthesis () indicates the division number of schematic diagram where the component is located.



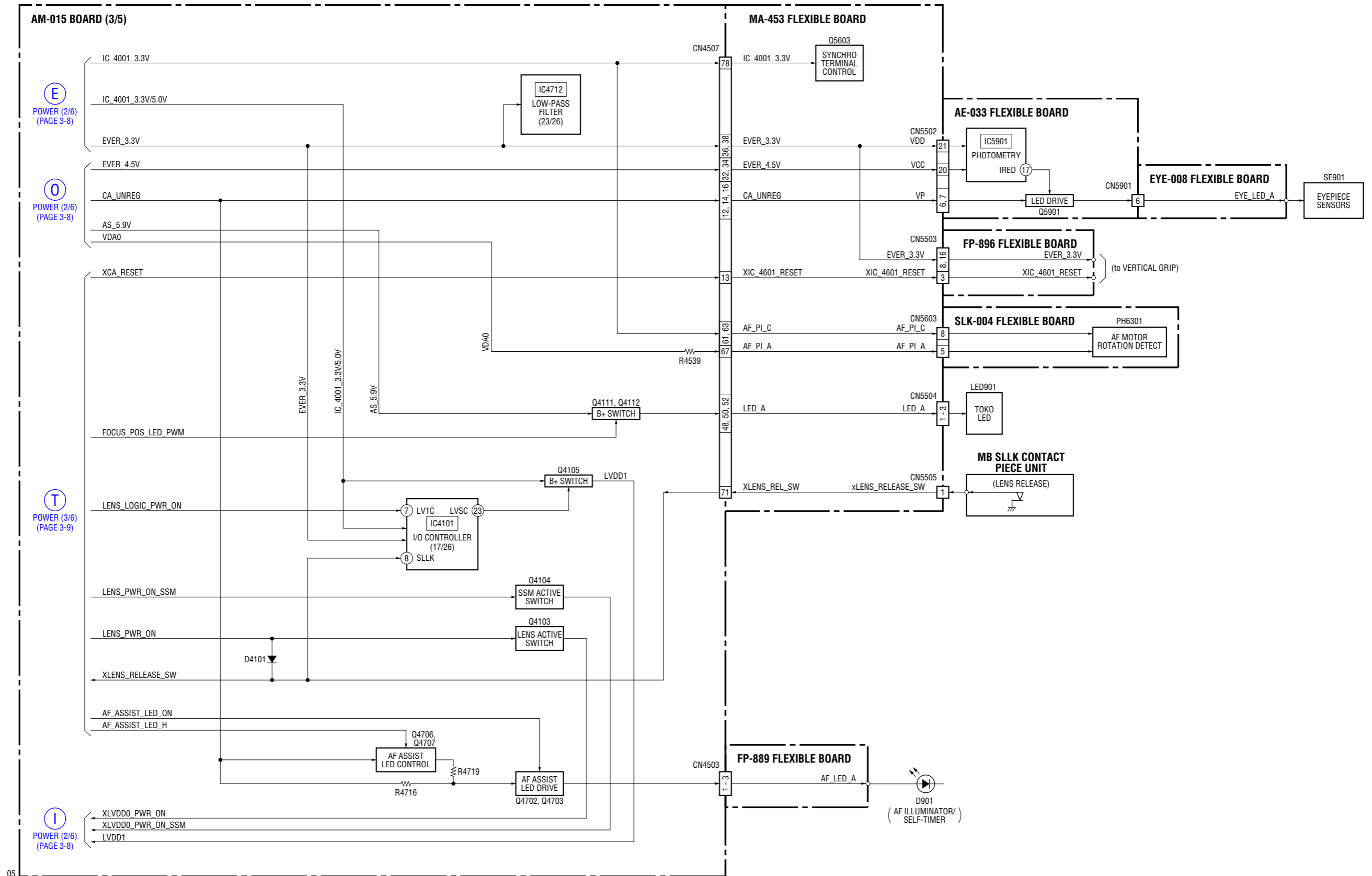
3-9. POWER BLOCK DIAGRAM (3/6)

(): Number in parenthesis () indicates the division number of schematic diagram where the component is located.



3-10. POWER BLOCK DIAGRAM (4/6)

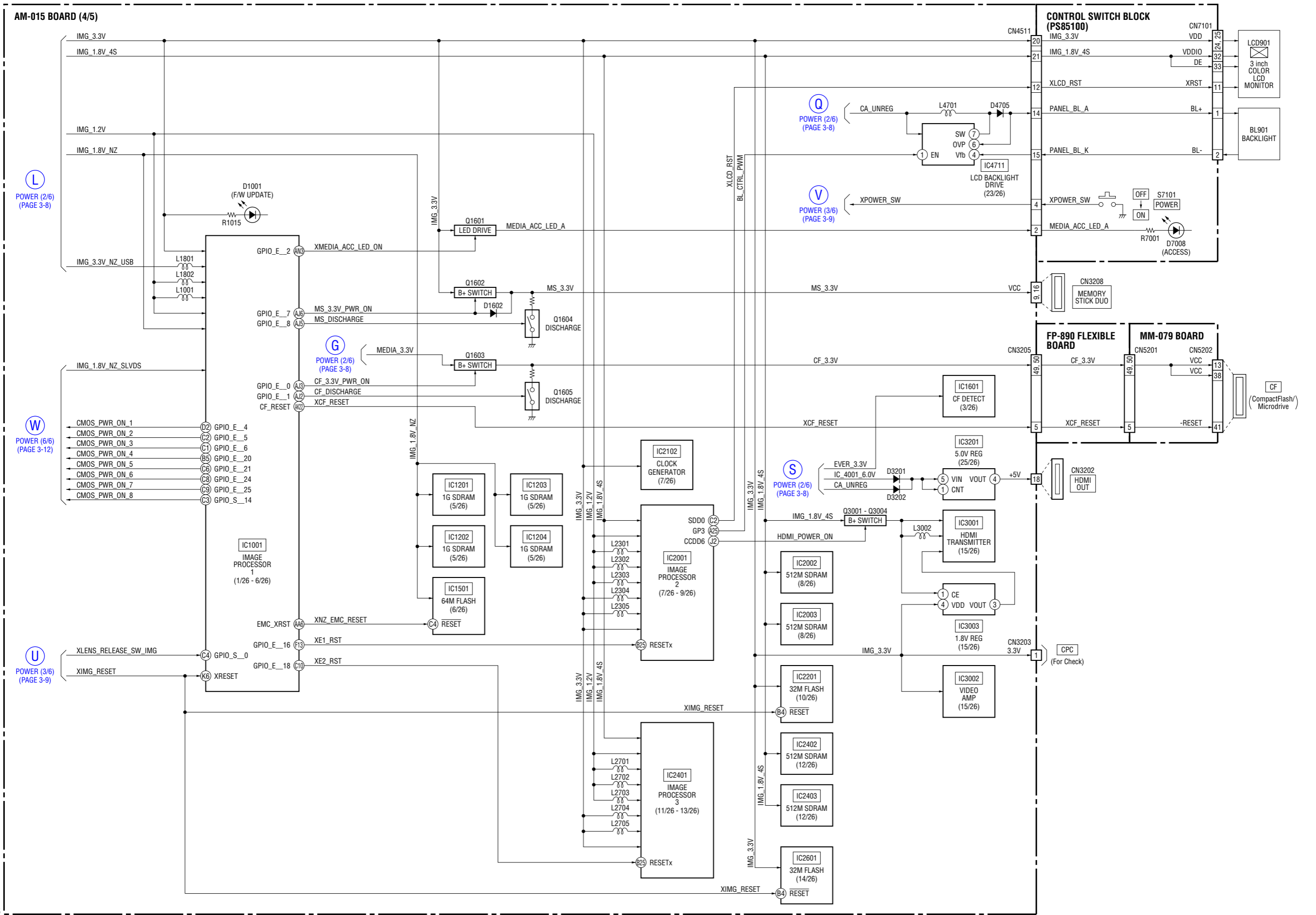
() : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



05

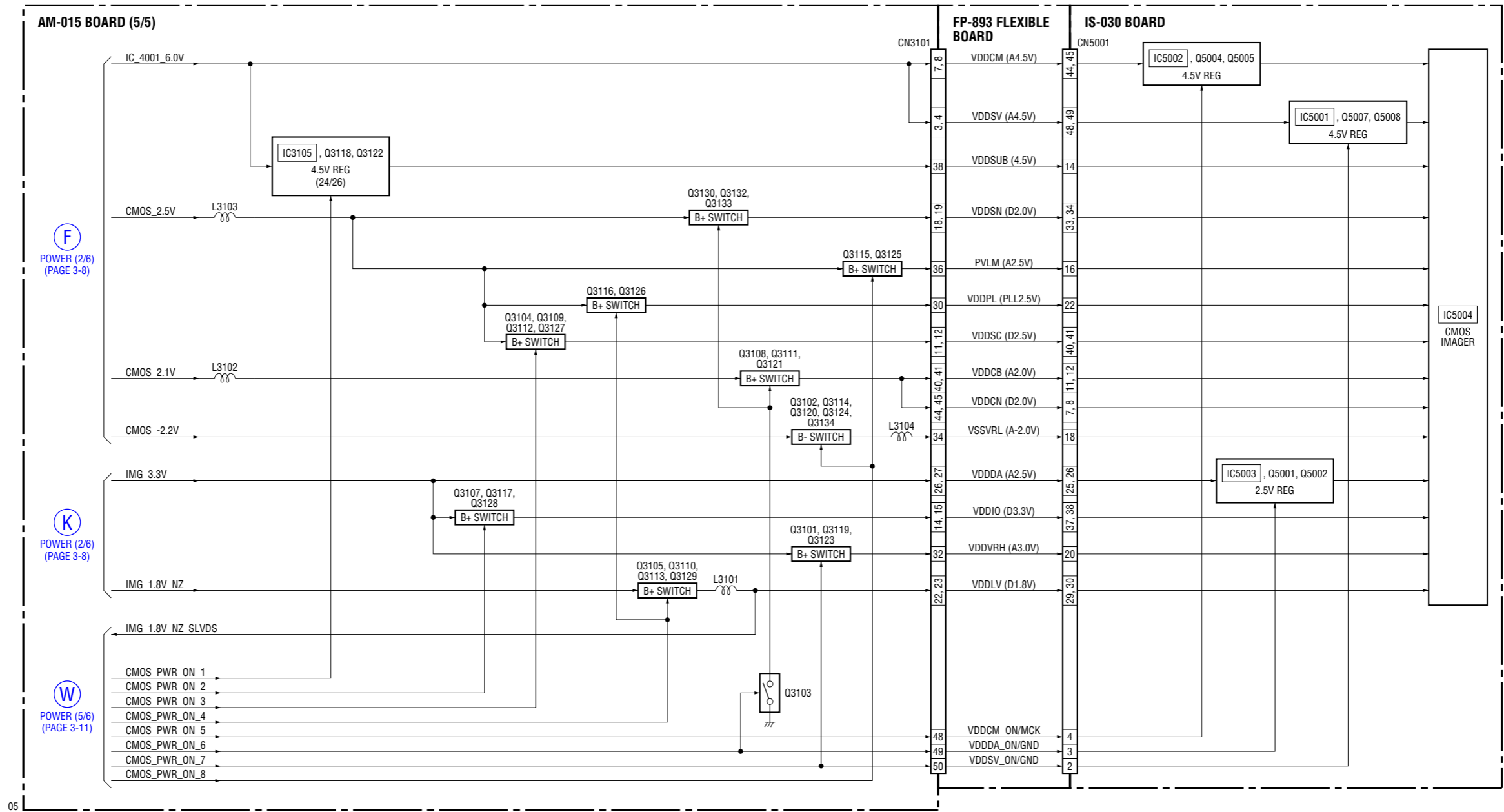
3-11. POWER BLOCK DIAGRAM (5/6)

(): Number in parenthesis () indicates the division number of schematic diagram where the component is located.



3-12. POWER BLOCK DIAGRAM (6/6)

() : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

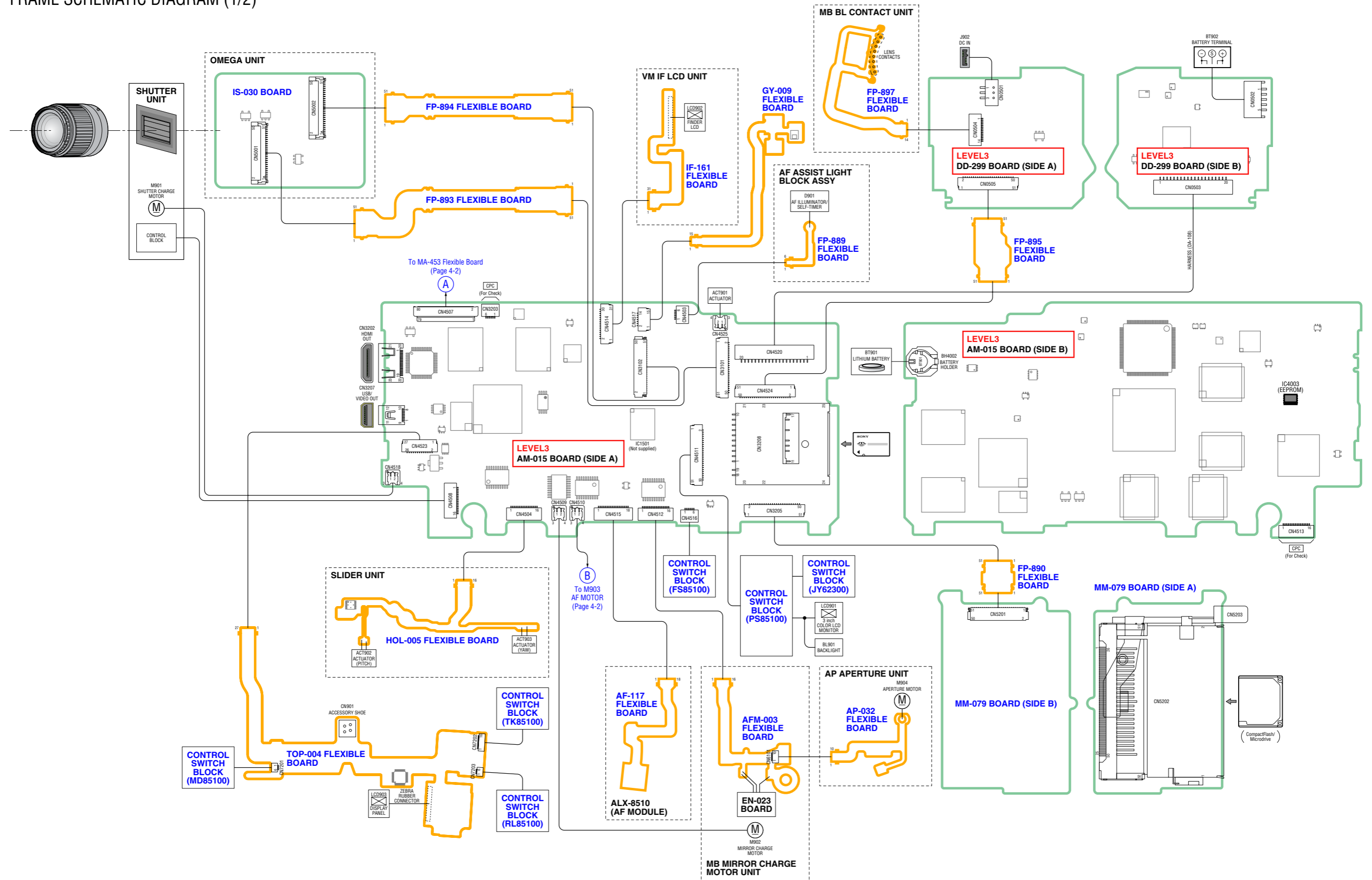


05

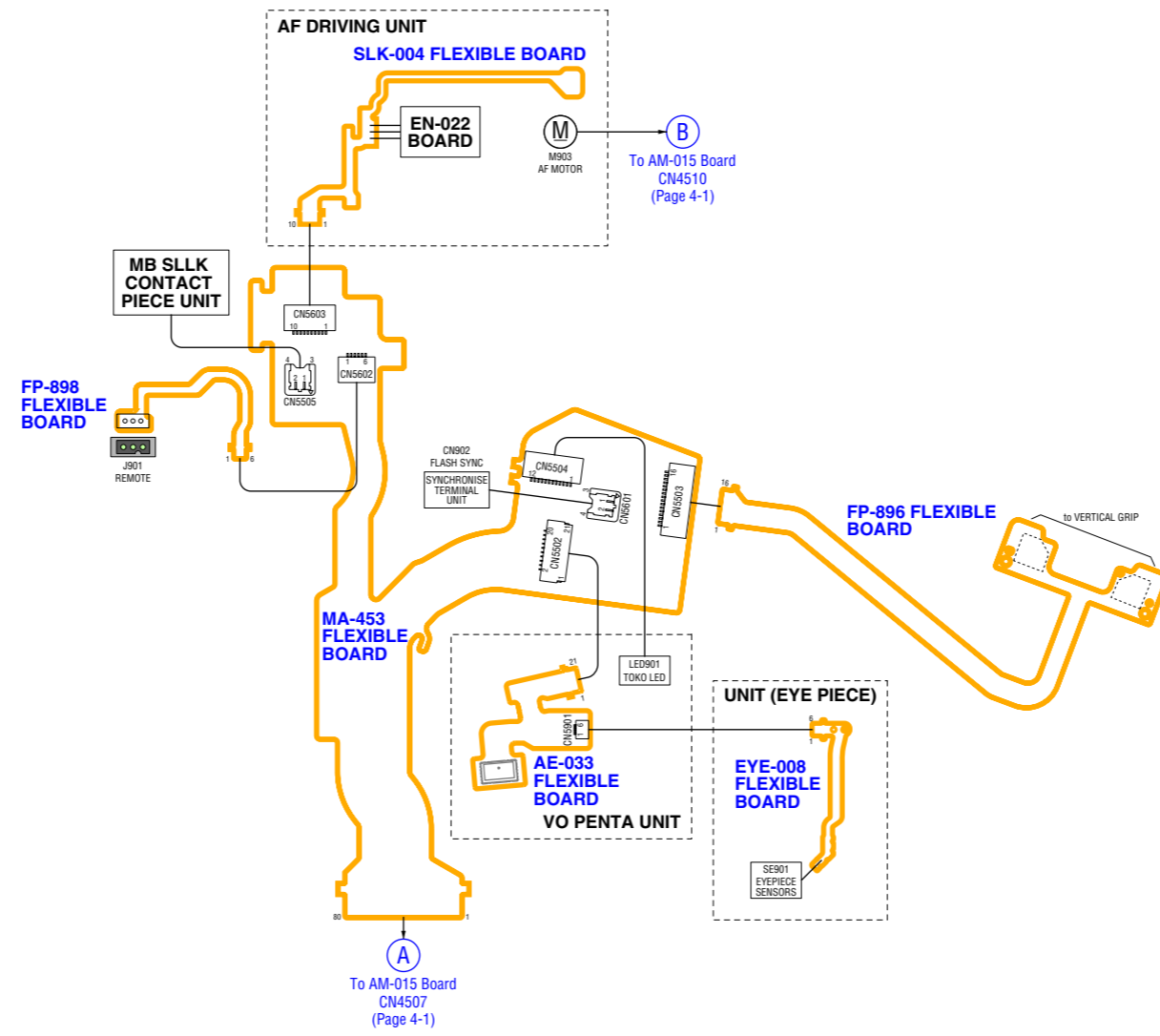
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAMS

FRAME SCHEMATIC DIAGRAM (1/2)



FRAME SCHEMATIC DIAGRAM (2/2)



4-2. SCHEMATIC DIAGRAMS

Link

• IS-030 BOARD (CMOS IMAGER)	• AP-032 FLEXIBLE BOARD (APERTURE MOTOR)
• MM-079 BOARD (CF SLOT)	• IF-161 FLEXIBLE BOARD (FINDER)
• AF-117 FLEXIBLE BOARD (AF CCD)	• TOP-004 FLEXIBLE BOARD (1/2) (BUZZER, ACCESSORY SHOE)
• GY-009 FLEXIBLE BOARD (GYRO SENSOR, REMOTE SENSOR)	• TOP-004 FLEXIBLE BOARD (2/2) (DISPLAY PANEL DRIVE)
• HOL-005 FLEXIBLE BOARD (HALL ELEMENT, ACTUATOR)	• FP-893 FLEXIBLE BOARD (AM-IS CONNECTION)
• MA-453 FLEXIBLE BOARD (1/2) (CONNECTOR)	• FP-894 FLEXIBLE BOARD (AM-IS CONNECTION)
• MA-453 FLEXIBLE BOARD (2/2) (CONNECTOR)	• FP-890 FLEXIBLE BOARD (AM-MM CONNECTION)
• FP-898 FLEXIBLE BOARD (REMOTE JACK)	• FP-895 FLEXIBLE BOARD (AM-DD CONNECTION)
• SLK-004 FLEXIBLE BOARD (AF SENSOR)	• CONTROL SWITCH BLOCK (PS85100) (1/2)
• AE-033 FLEXIBLE BOARD (PHOTOMETRY)	• CONTROL SWITCH BLOCK (PS85100) (2/2)
• EYE-008 FLEXIBLE BOARD (EYEPIECE)	• CONTROL SWITCH BLOCK (JY62300)
• FP-896 FLEXIBLE BOARD (VERTICAL GRIP TERMINAL)	• CONTROL SWITCH BLOCK (FS85100)
• FP-889 FLEXIBLE BOARD (AF ASSIST LIGHT)	• CONTROL SWITCH BLOCK (MD85100)
• FP-897 FLEXIBLE BOARD (LENS CONTACTS)	• CONTROL SWITCH BLOCK (TK85100)
• AFM-003 FLEXIBLE BOARD (AF/MF SWITCH, CHARGE CAM)	• CONTROL SWITCH BLOCK (RL85100)

• COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. 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 22U TA A	L452 10UH 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 spécifié.

(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、1/10W以下。
 $\text{k}\Omega=1000 \Omega$, $\text{M}\Omega=1000 \text{k}\Omega$
- 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ります。

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

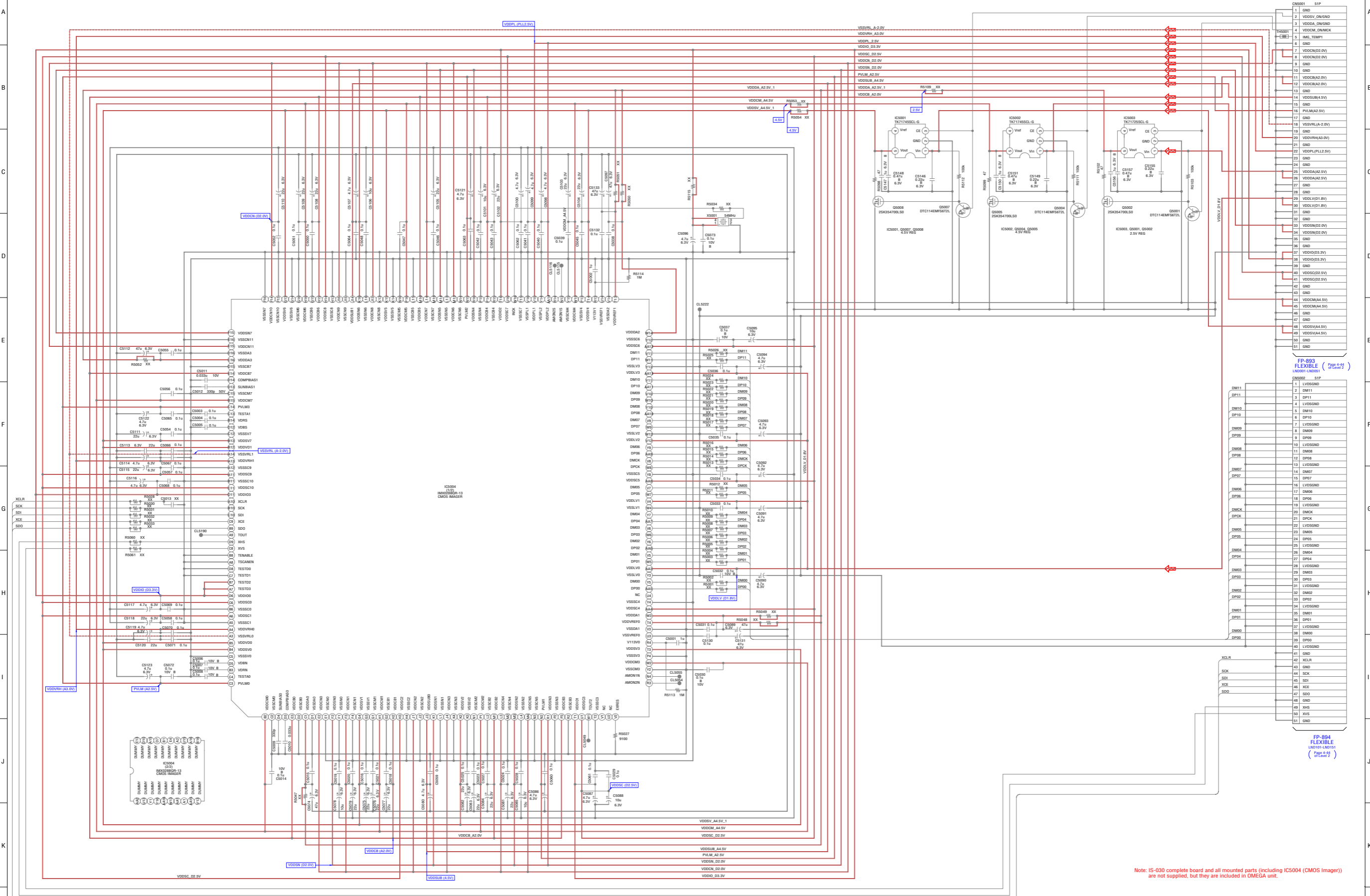
- 抵抗、コンデンサ、ICなど定数にXXがあるものは、使用していない事を示しています。このため、使用していない回路が記載されている事があります。
- ★印のある部品は、機種などにより異なりますので機能別マウント一覧表を参照してください。
- 可変抵抗と半固定抵抗で、B特性の表示を省略。
- 信号名表記について、下記のような場合があります。
XEDIT → EDIT PB/XREC → PB/REC
- は不燃性抵抗。
- はヒューズ抵抗。
- はパネル表示名称。
- はB+ライン。
- はB-ライン。
- はBライン (+, -) の入出力方向を示す。
- は調整名称。

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。

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。

\triangle 印の部品、または \triangle 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。

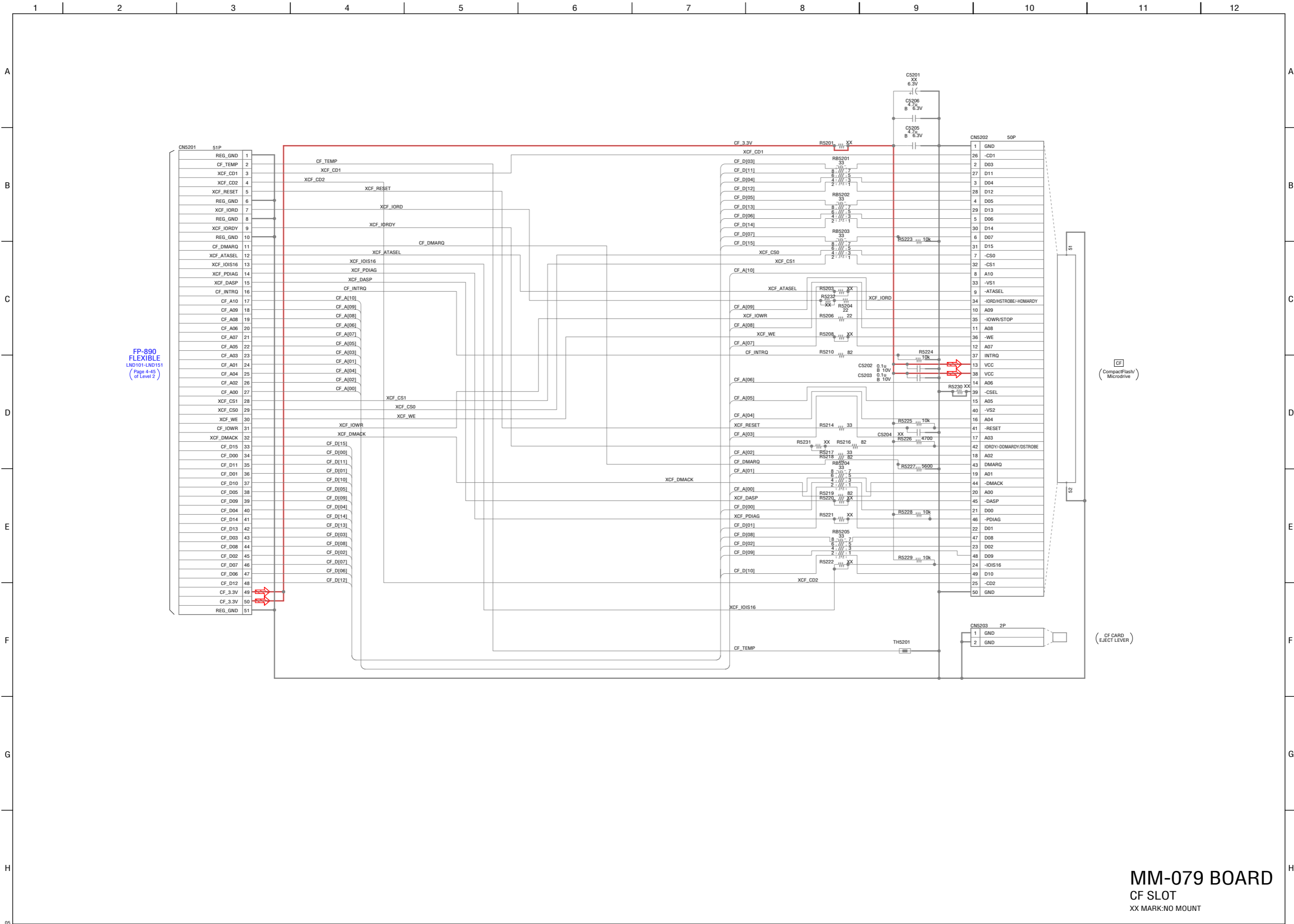


- | Pin | Signal |
|-----|----------------|
| 1 | GND |
| 2 | VDDSV_ON/GND |
| 3 | VDDCM_A2/GND |
| 4 | VDDCM_ON/GND |
| 5 | IML_TEMP1 |
| 6 | GND |
| 7 | VDDCN(D2.0V) |
| 8 | VDDCN(D2.0V) |
| 9 | GND |
| 10 | GND |
| 11 | VDDCM(A2.0V) |
| 12 | VDDCM(A2.0V) |
| 13 | GND |
| 14 | VDDCM(A4.5V) |
| 15 | GND |
| 16 | PULM(A2.5V) |
| 17 | GND |
| 18 | VSSVRL(A-2.0V) |
| 19 | GND |
| 20 | VDDVRRH(A4.5V) |
| 21 | GND |
| 22 | VDDPL(PL12.5V) |
| 23 | GND |
| 24 | GND |
| 25 | VDDA(A2.5V) |
| 26 | VDDA(A2.5V) |
| 27 | GND |
| 28 | GND |
| 29 | VDDVRL(D1.0V) |
| 30 | VDDVRL(D1.0V) |
| 31 | GND |
| 32 | GND |
| 33 | VDDSN(D2.0V) |
| 34 | VDDSN(D2.0V) |
| 35 | GND |
| 36 | GND |
| 37 | VDDIO(D3.3V) |
| 38 | VDDIO(D3.3V) |
| 39 | GND |
| 40 | VDDSC(D2.5V) |
| 41 | VDDSC(D2.5V) |
| 42 | GND |
| 43 | GND |
| 44 | VDDCM(A4.5V) |
| 45 | VDDCM(A4.5V) |
| 46 | GND |
| 47 | GND |
| 48 | VDDSV(A4.5V) |
| 49 | VDDSV(A4.5V) |
| 50 | GND |
| 51 | GND |

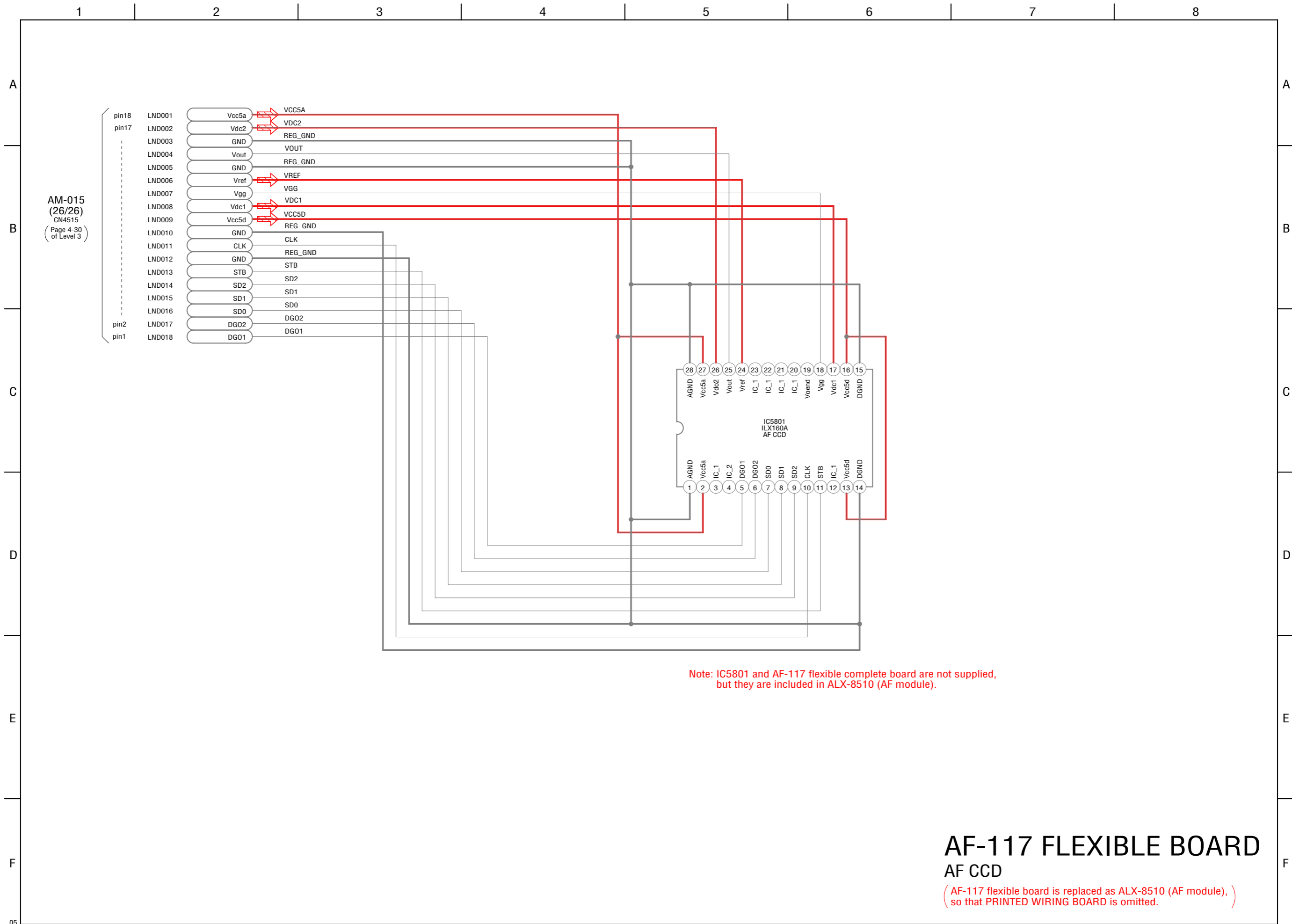
Note: IS-030 complete board and all mounted parts (including IC5004 (CMOS Imager)) are not supplied, but they are included in OMEGA unit.

IS-030 BOARD
 CMOS IMAGER
 XX MARK:NO MOUNT

Schematic diagrams of the AM-015 and DD-299 boards are not shown.
Pages from 4-5 to 4-32 are not shown.



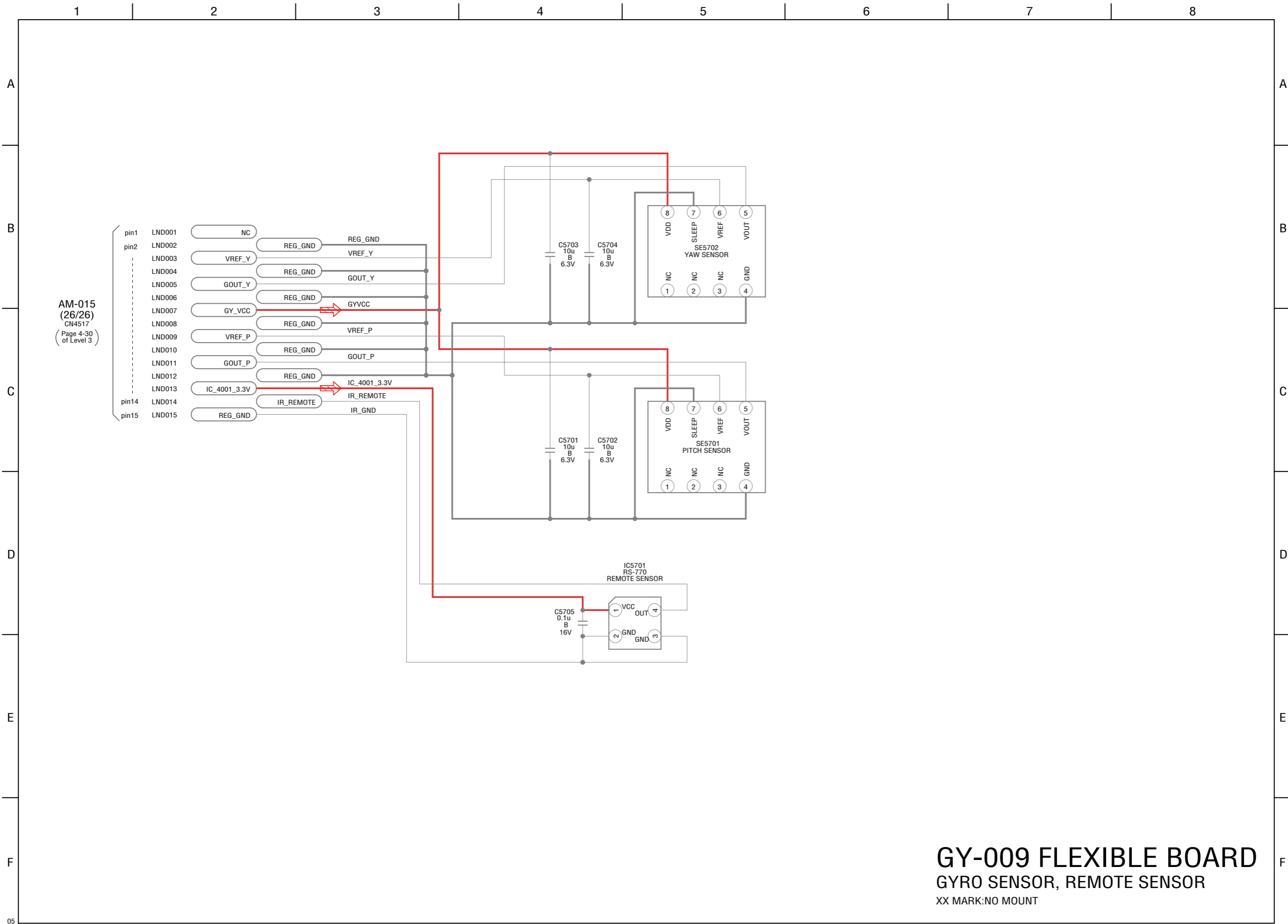
MM-079 BOARD
CF SLOT
 XX MARK:NO MOUNT



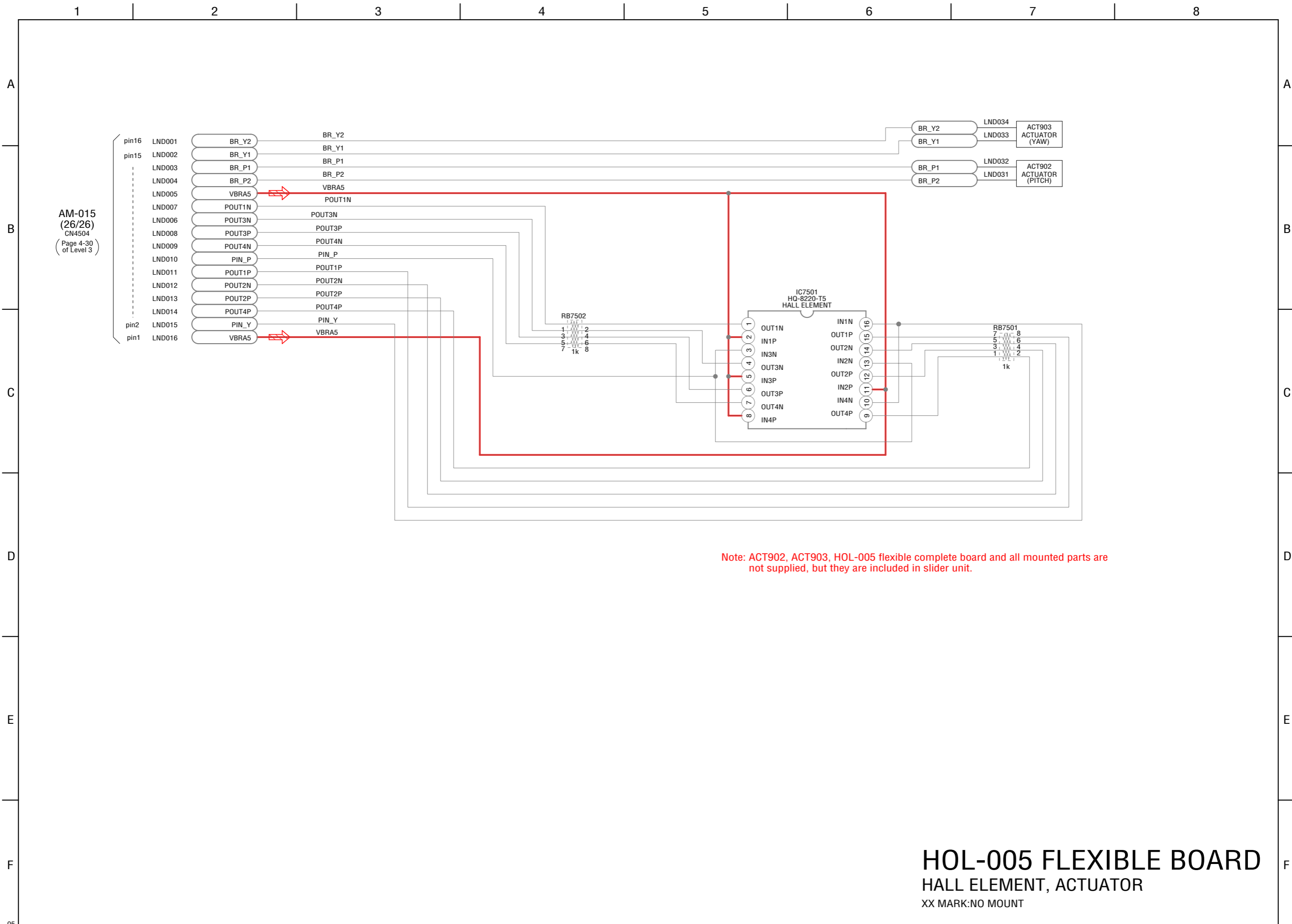
AF-117 FLEXIBLE BOARD

AF CCD

(AF-117 flexible board is replaced as ALX-8510 (AF module), so that PRINTED WIRING BOARD is omitted.)



GY-009 FLEXIBLE BOARD
 GYRO SENSOR, REMOTE SENSOR
 XX MARK:NO MOUNT

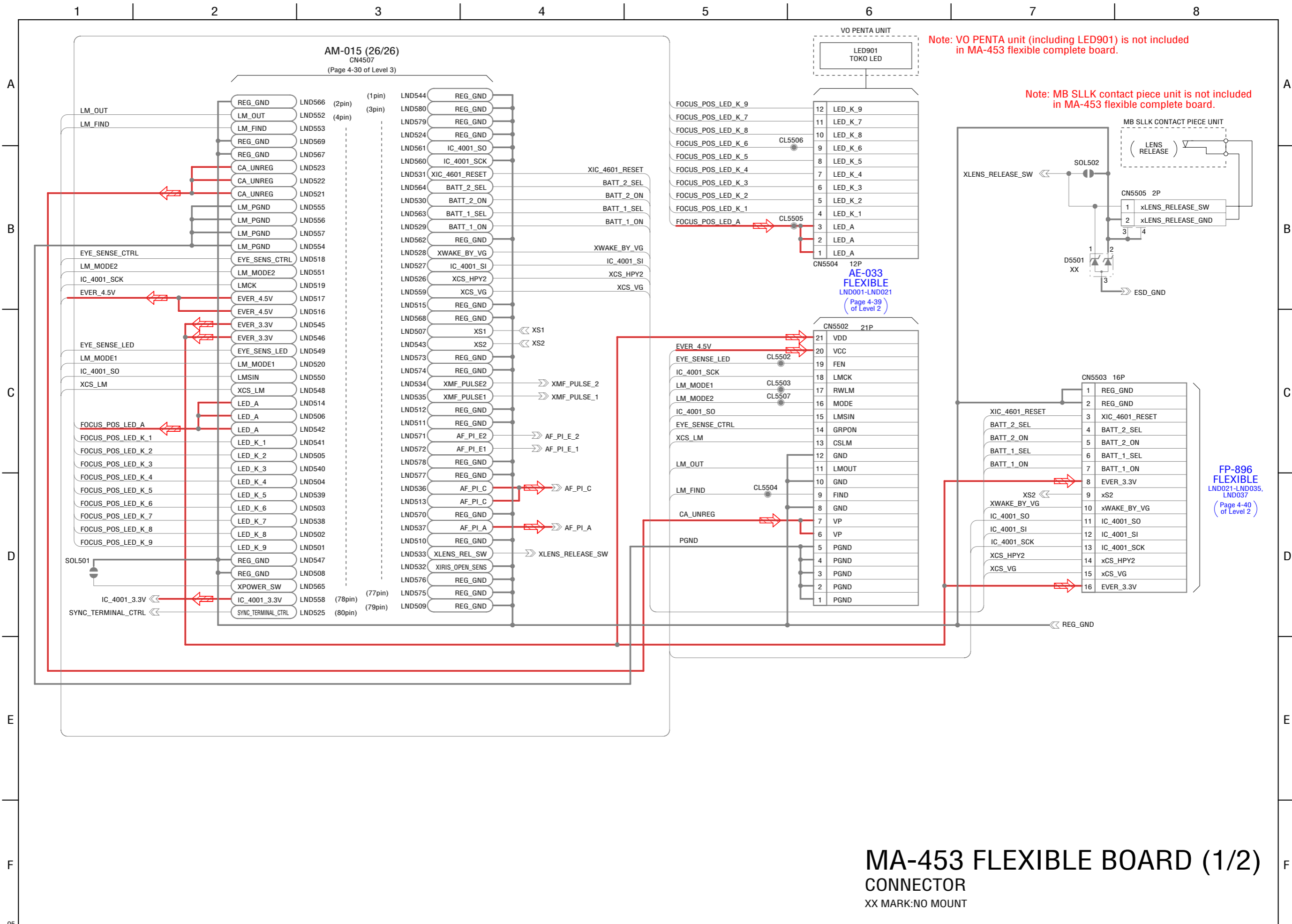


Note: ACT902, ACT903, HOL-005 flexible complete board and all mounted parts are not supplied, but they are included in slider unit.

HOL-005 FLEXIBLE BOARD

HALL ELEMENT, ACTUATOR

XX MARK:NO MOUNT



Note: VO PENTA unit (including LED901) is not included in MA-453 flexible complete board.

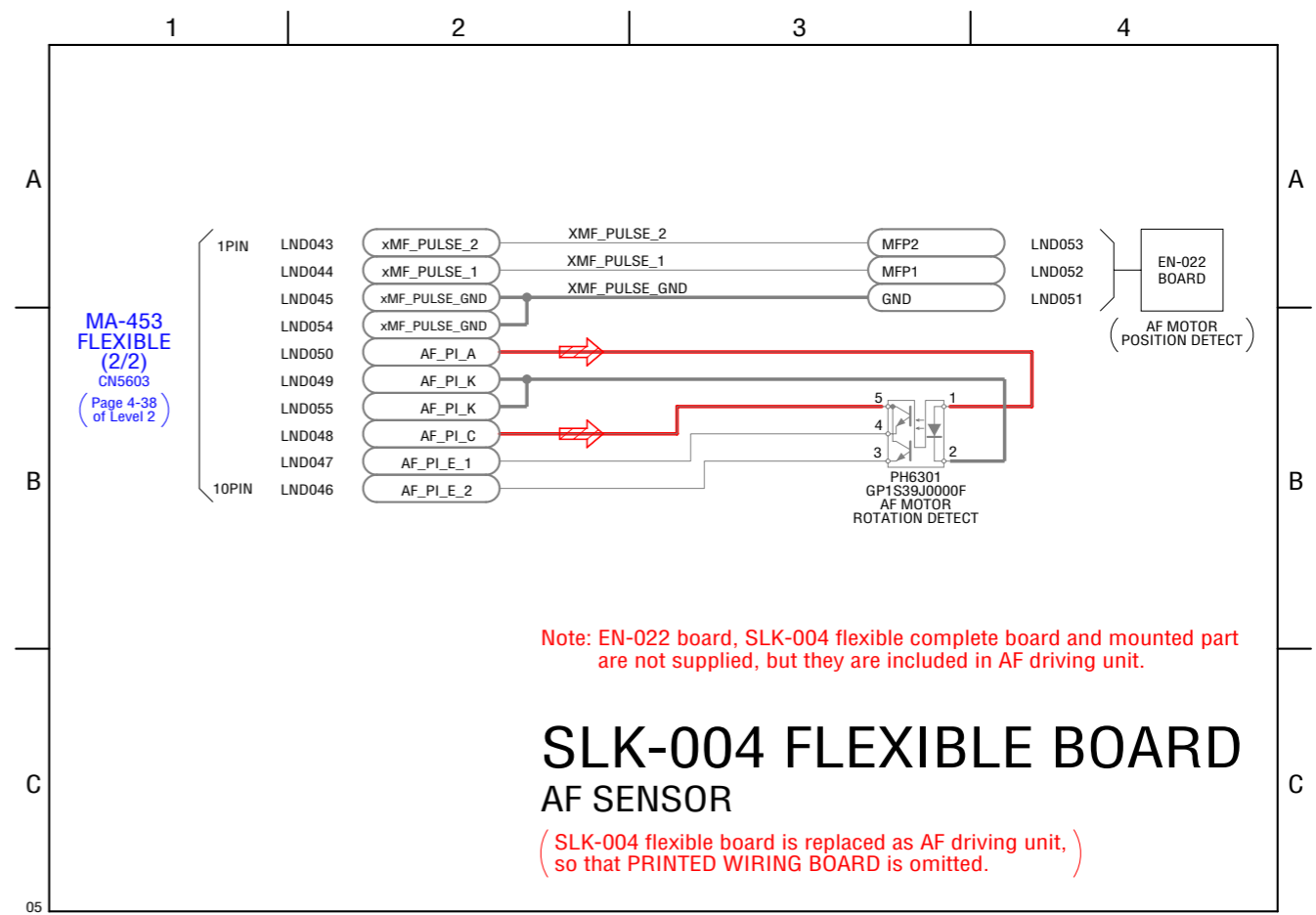
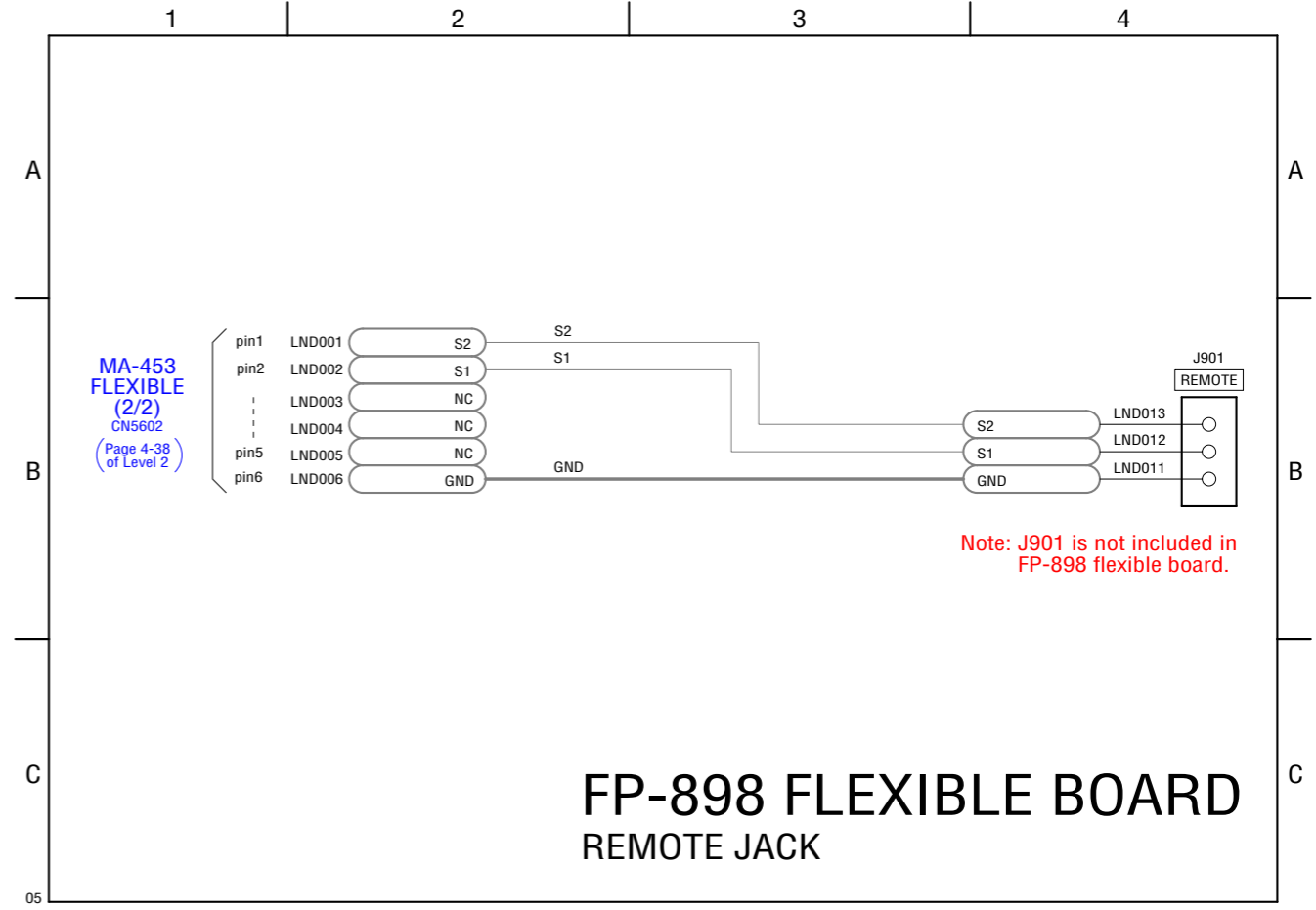
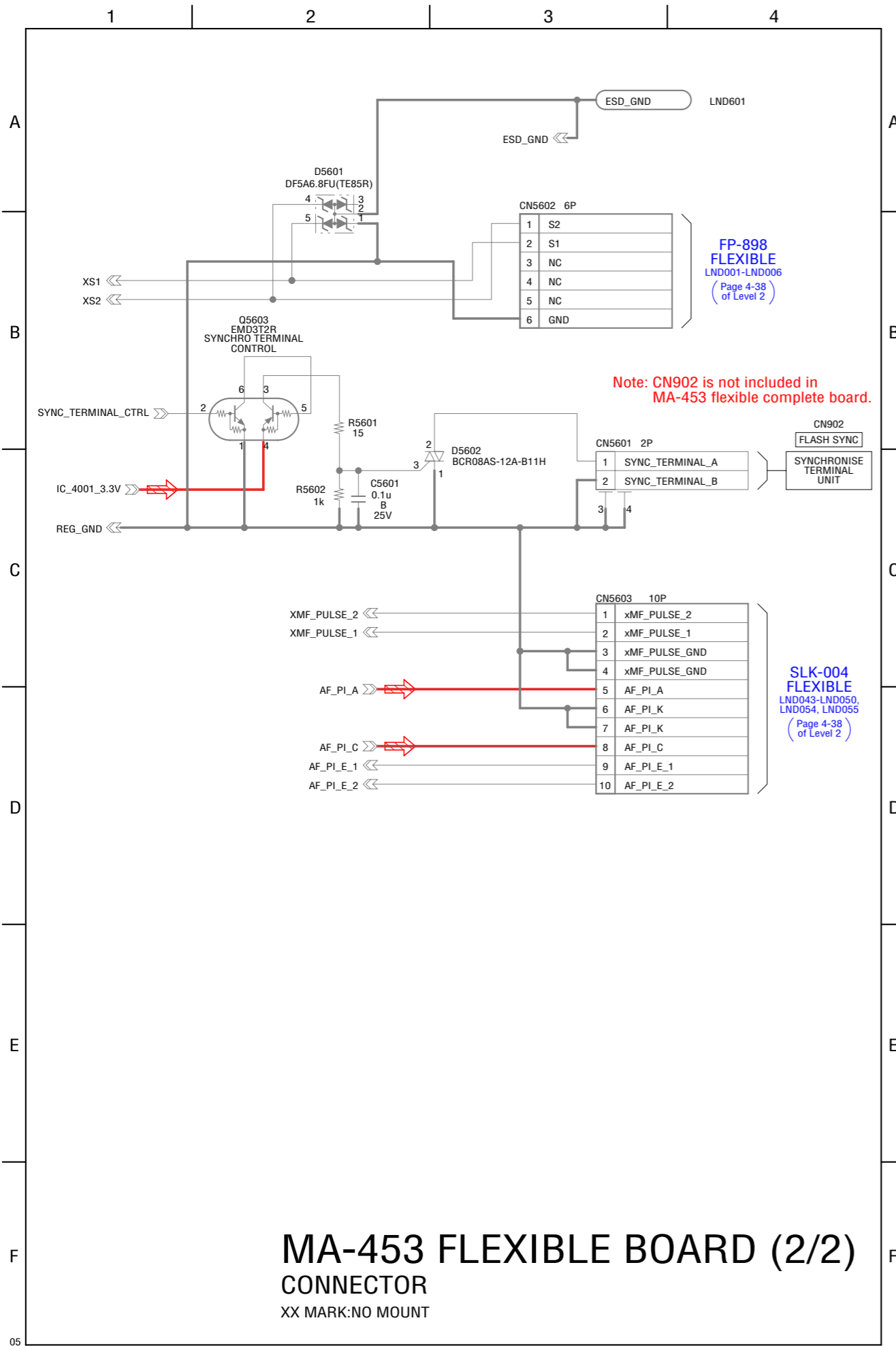
Note: MB SLLK contact piece unit is not included in MA-453 flexible complete board.

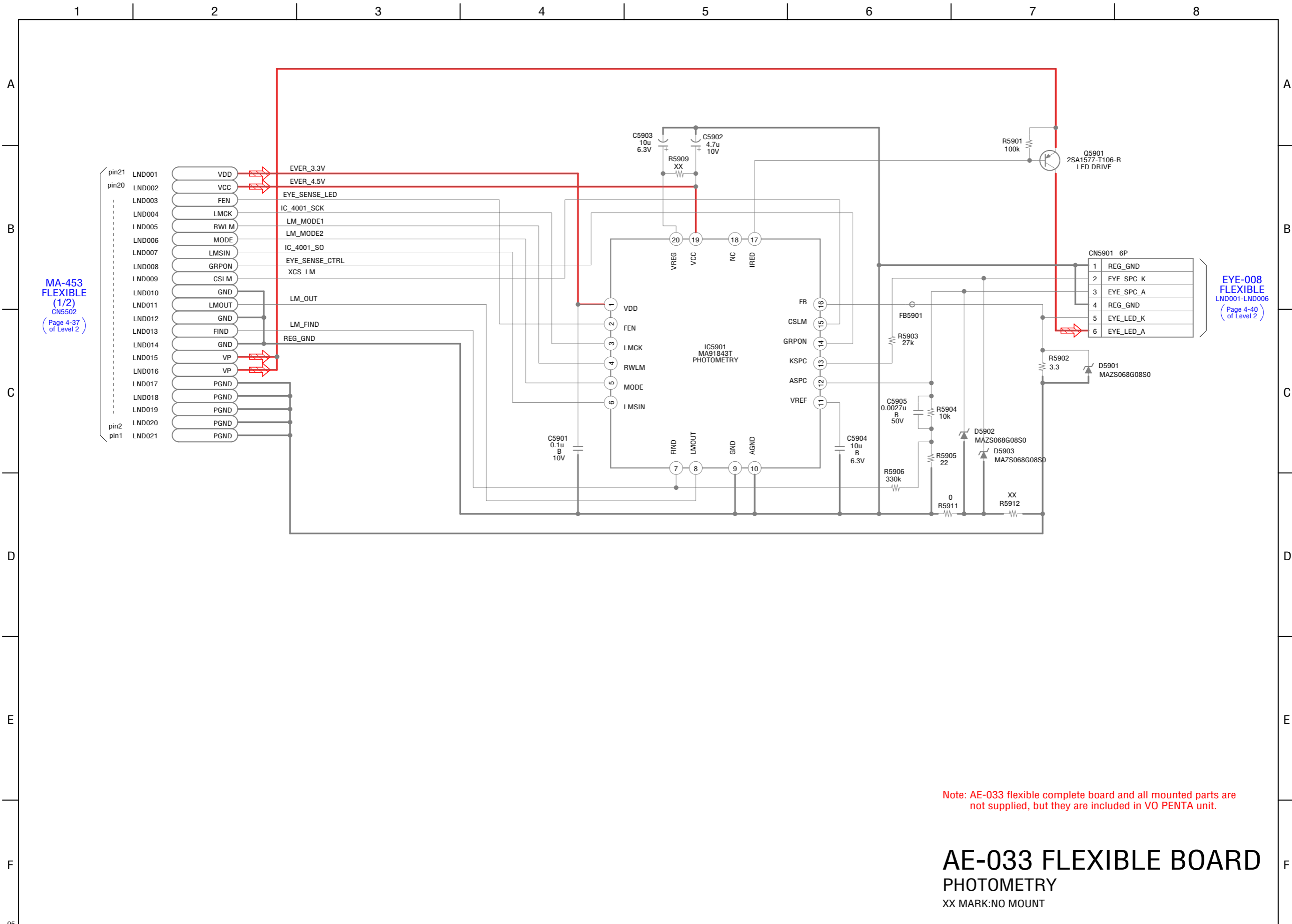
AE-033 FLEXIBLE LND001-LND021 (Page 4-39 of Level 2)

FP-896 FLEXIBLE LND021-LND035, LND037 (Page 4-40 of Level 2)

MA-453 FLEXIBLE BOARD (1/2) CONNECTOR

XX MARK:NO MOUNT



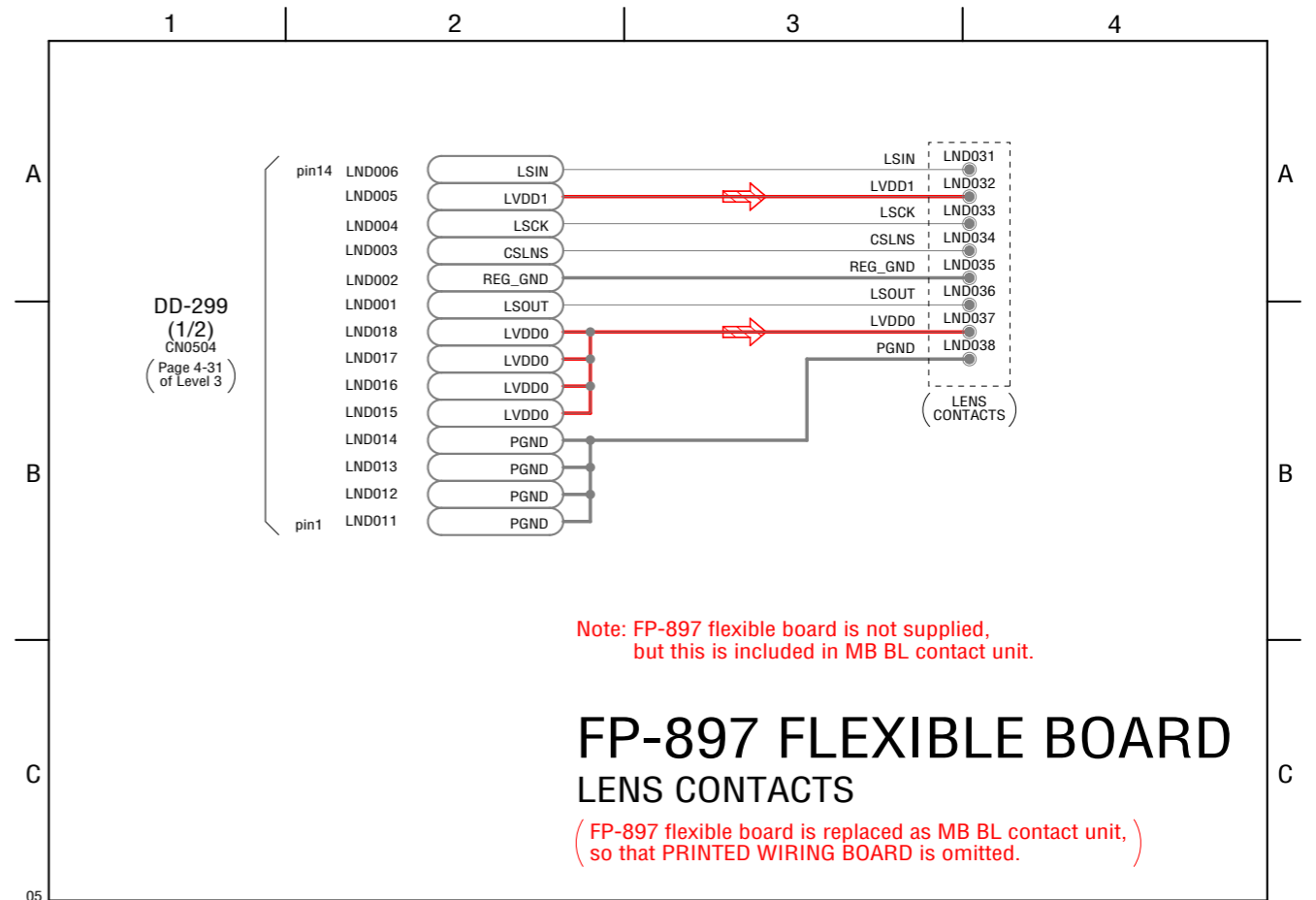
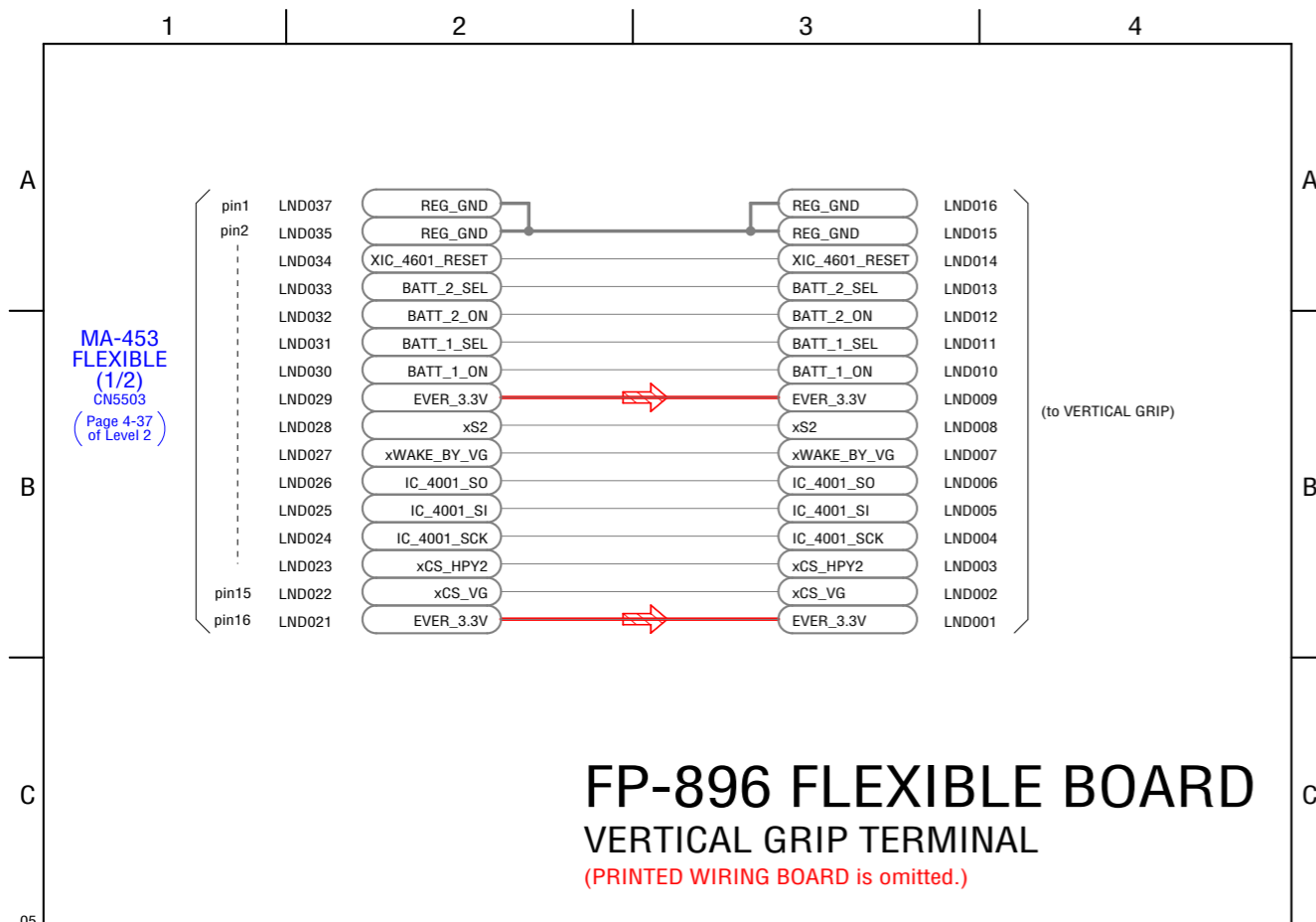
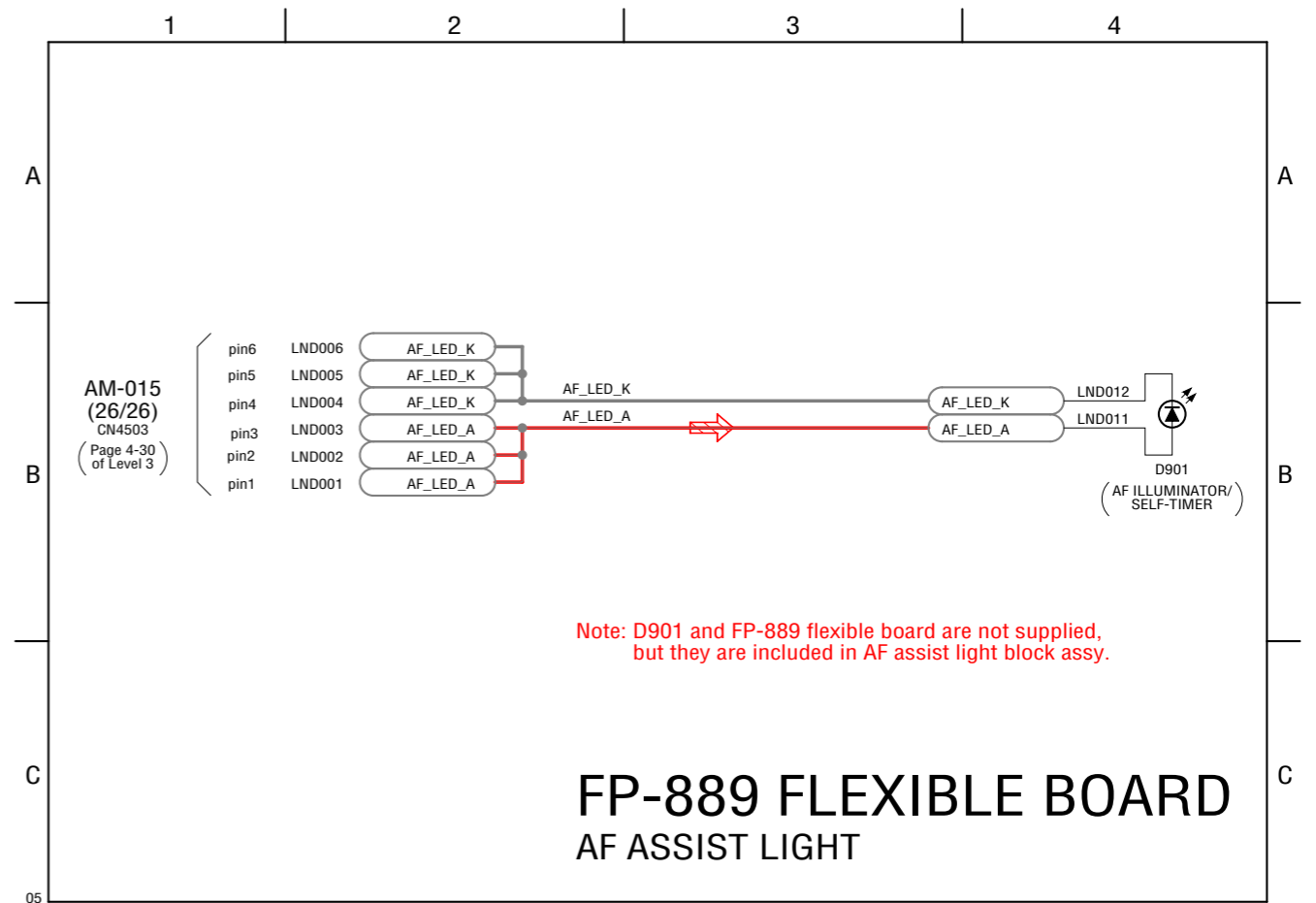
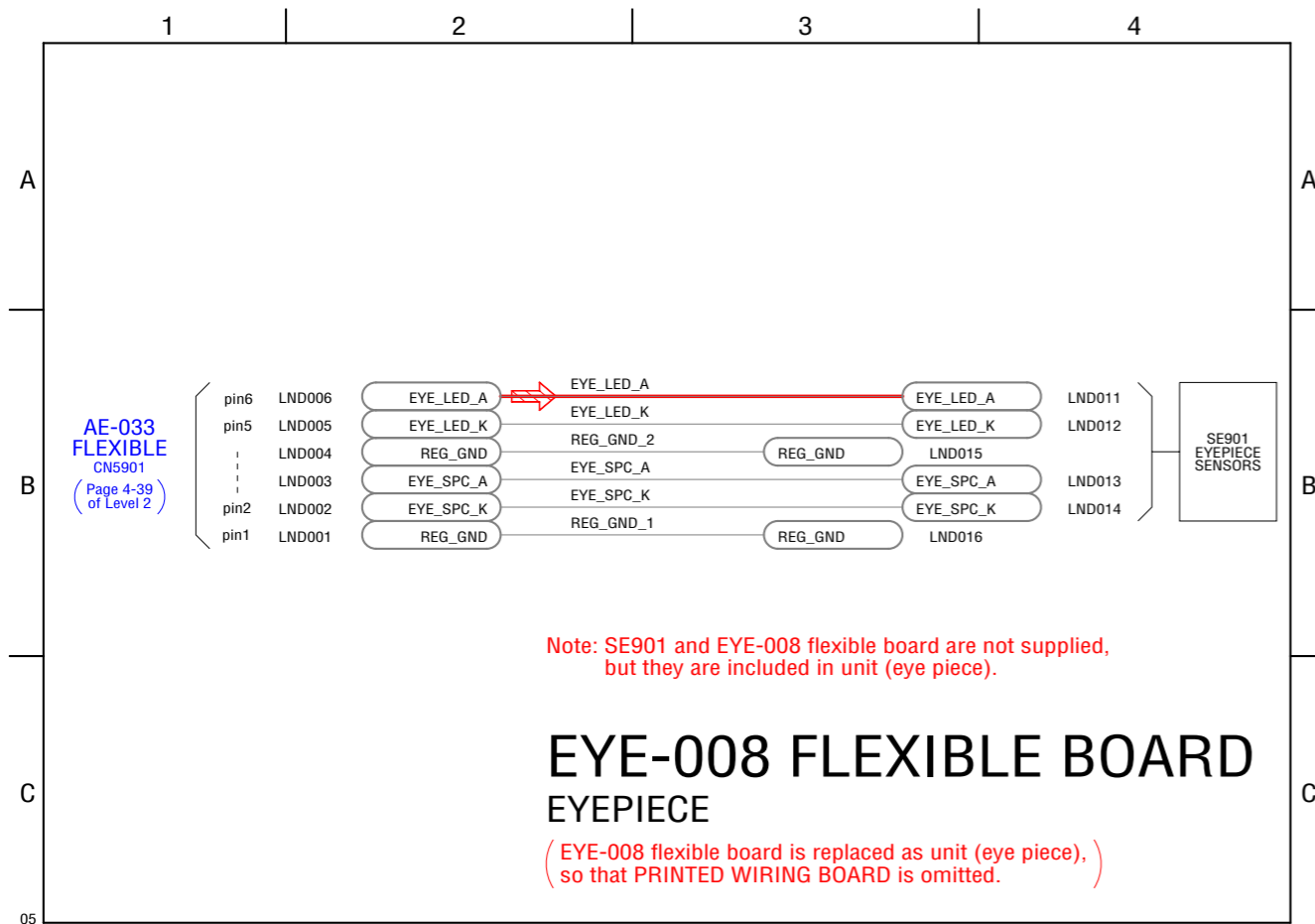


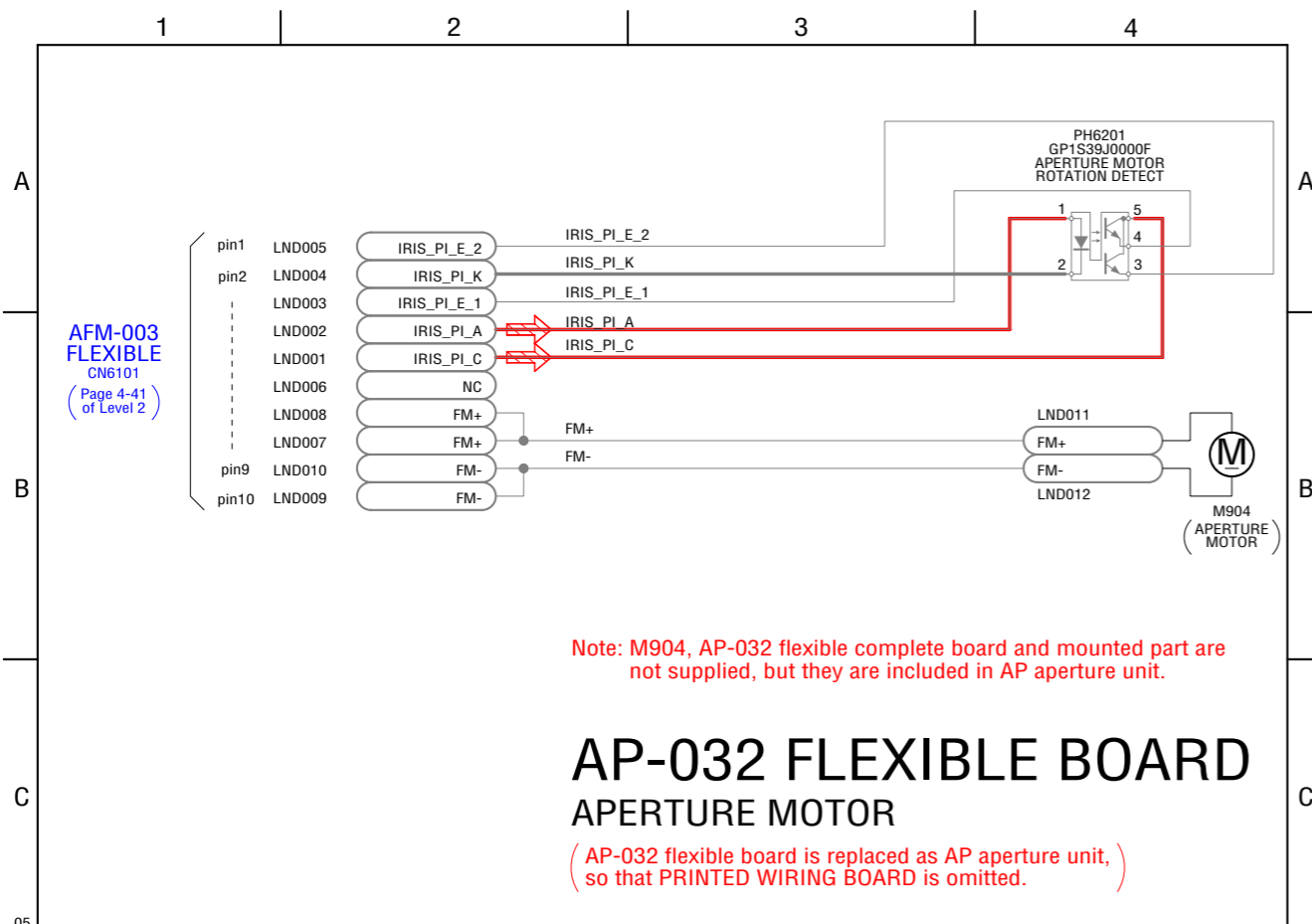
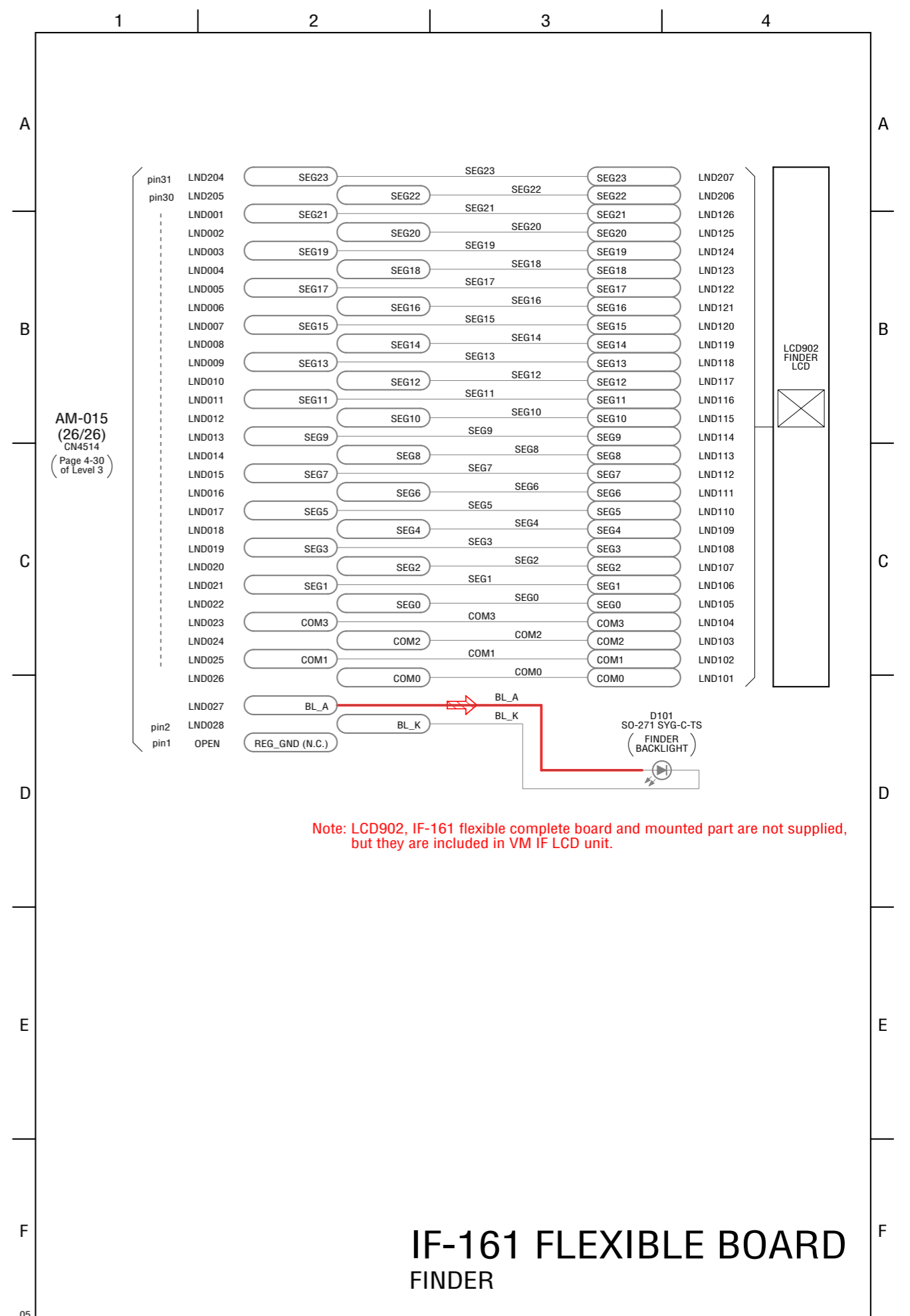
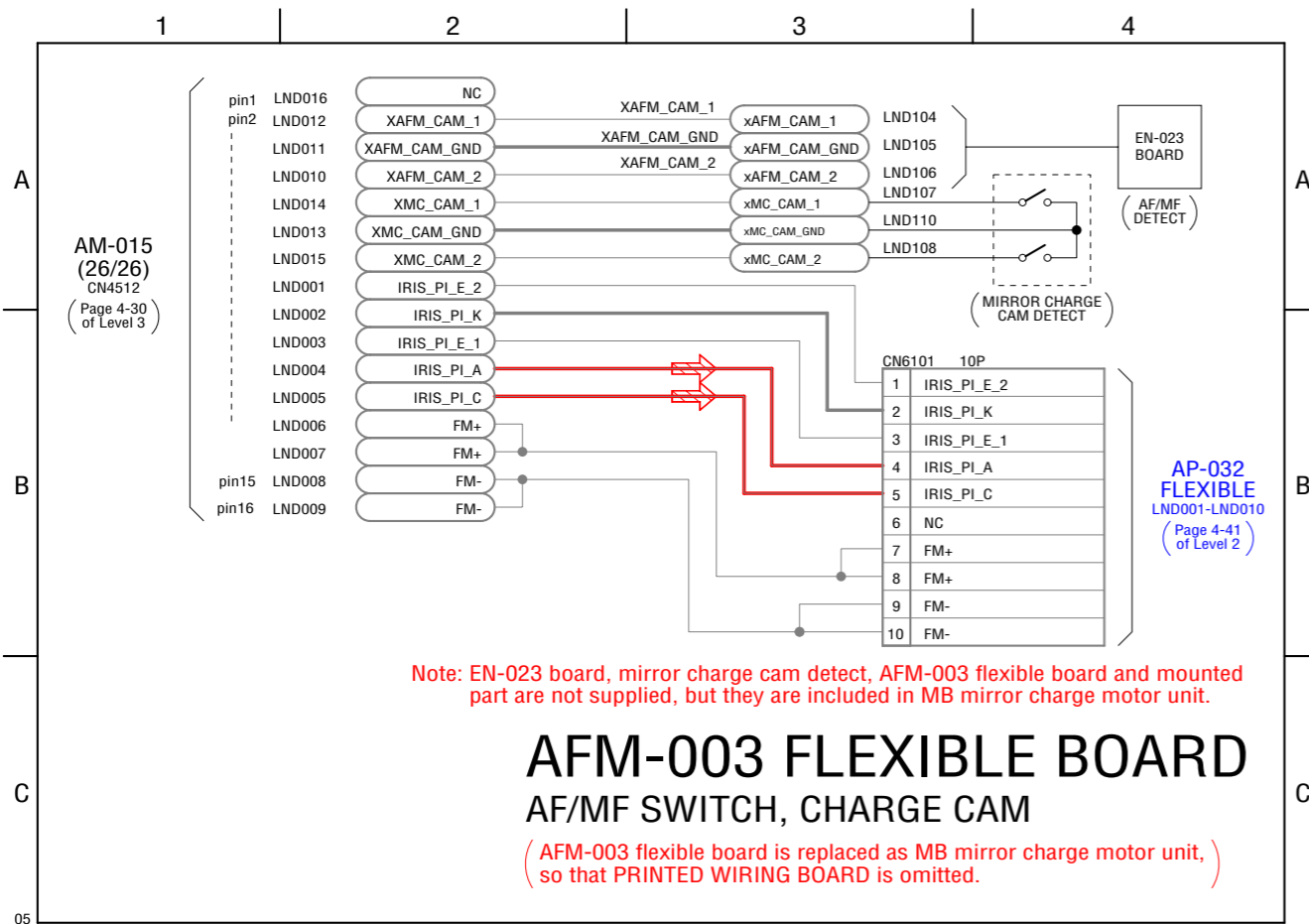
Note: AE-033 flexible complete board and all mounted parts are not supplied, but they are included in VO PENTA unit.

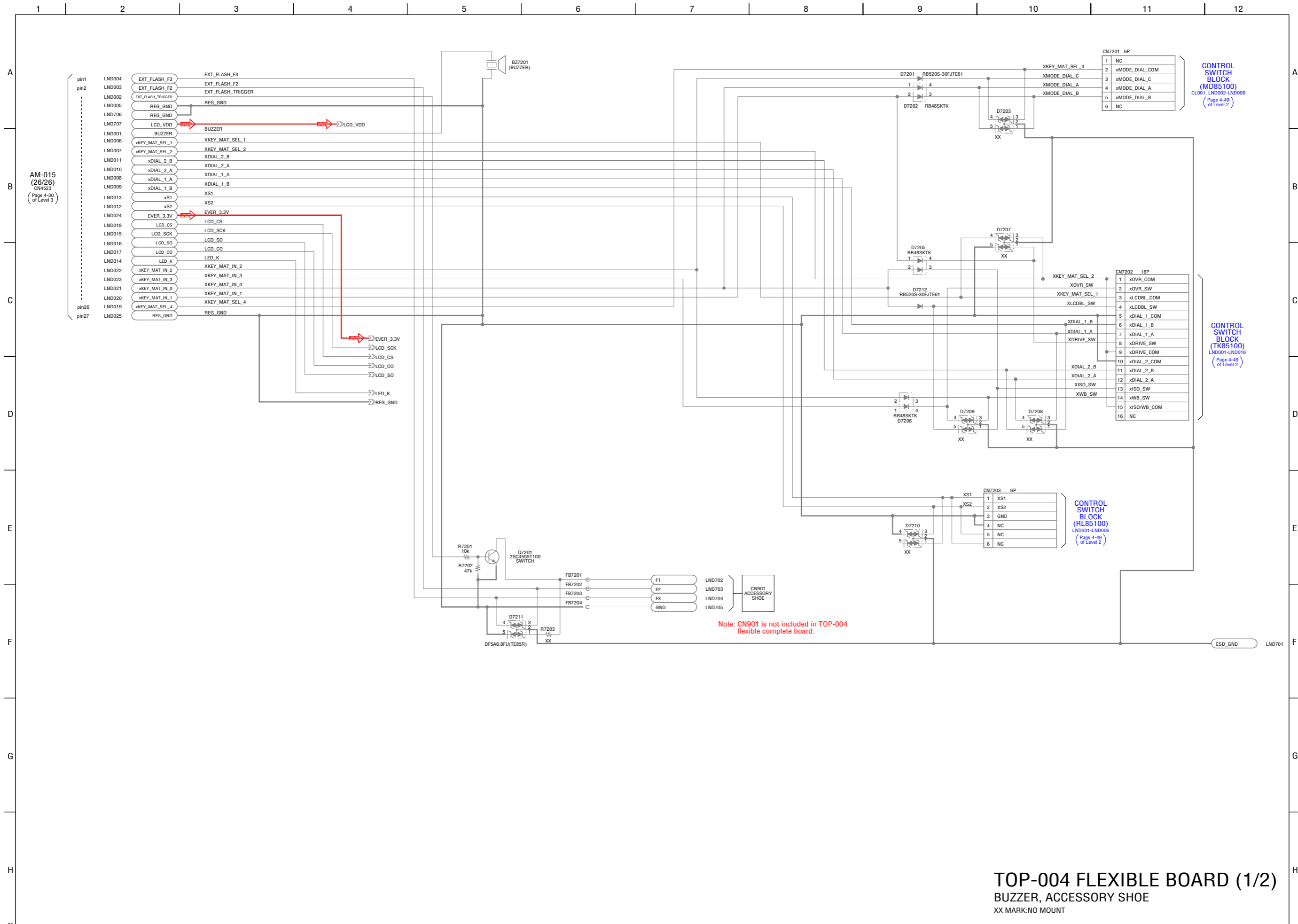
AE-033 FLEXIBLE BOARD

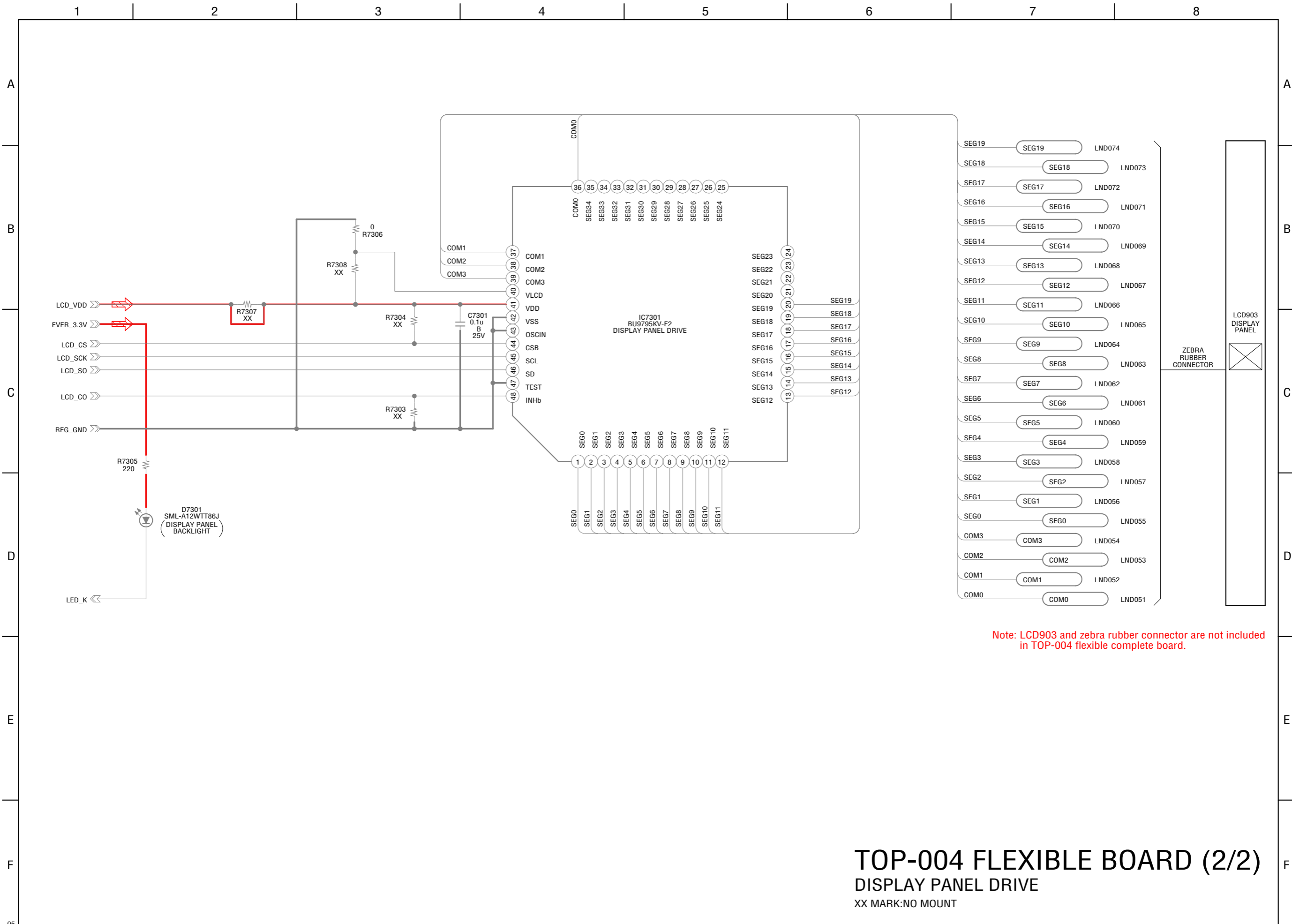
PHOTOMETRY

XX MARK:NO MOUNT







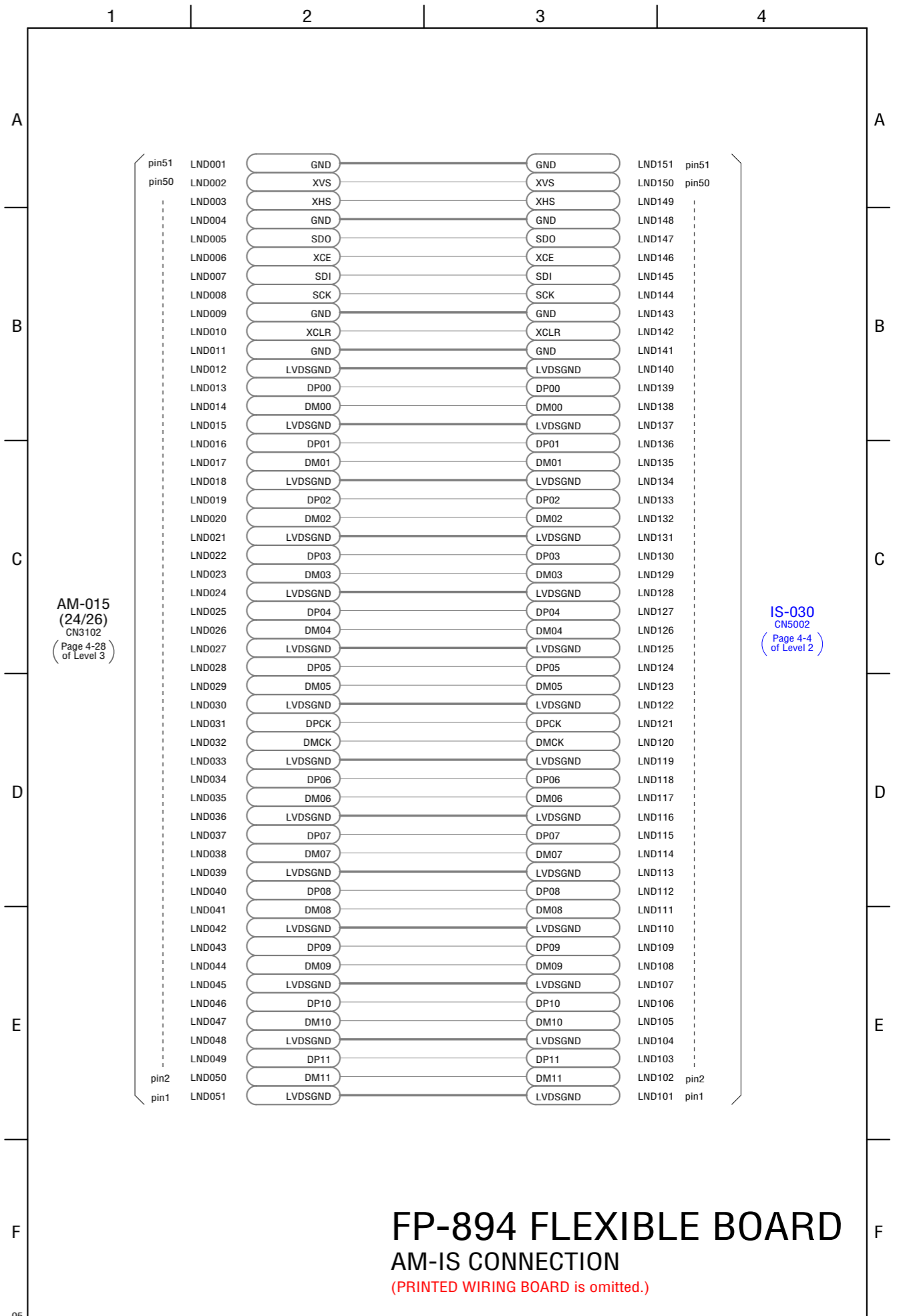
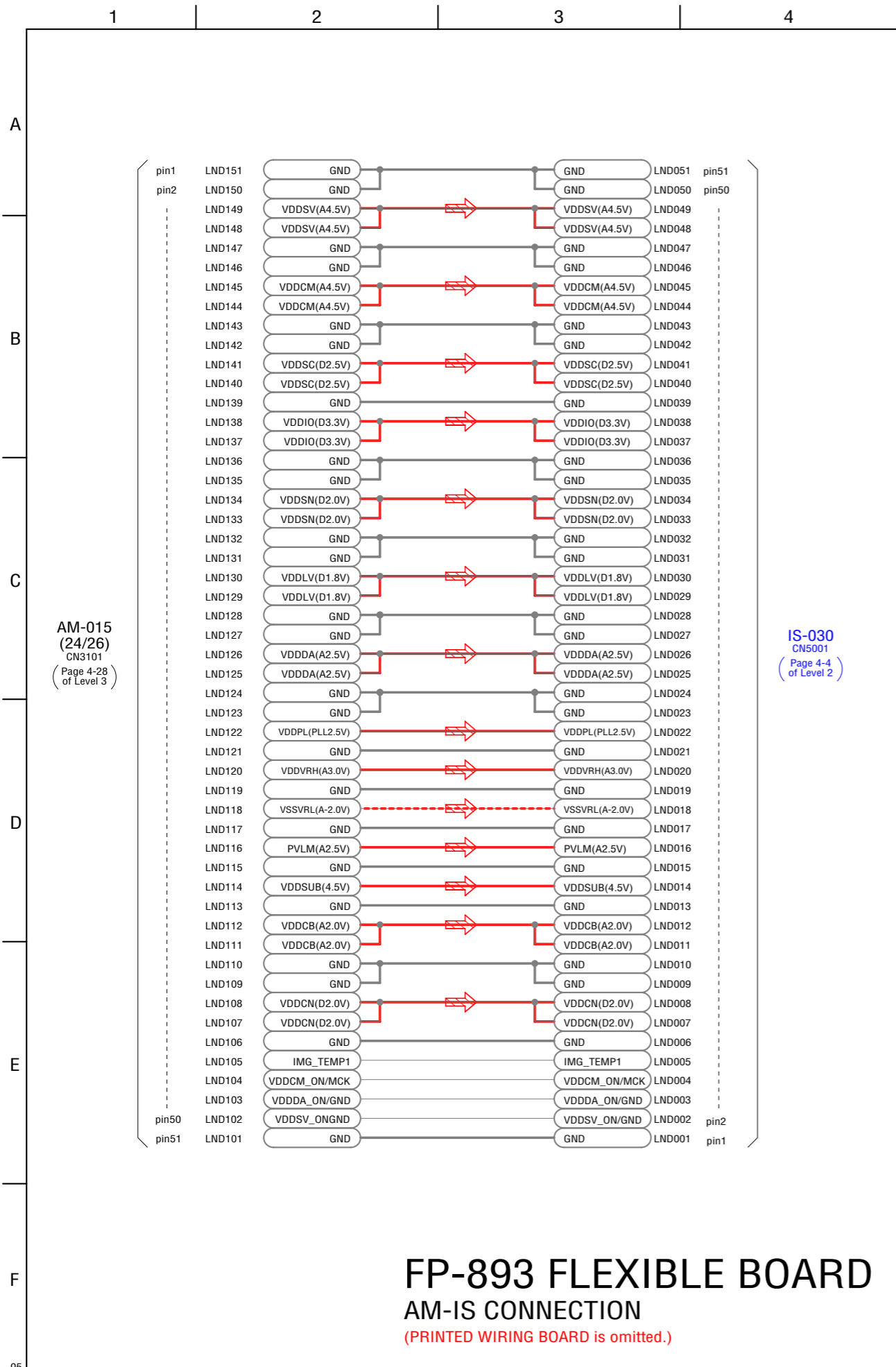


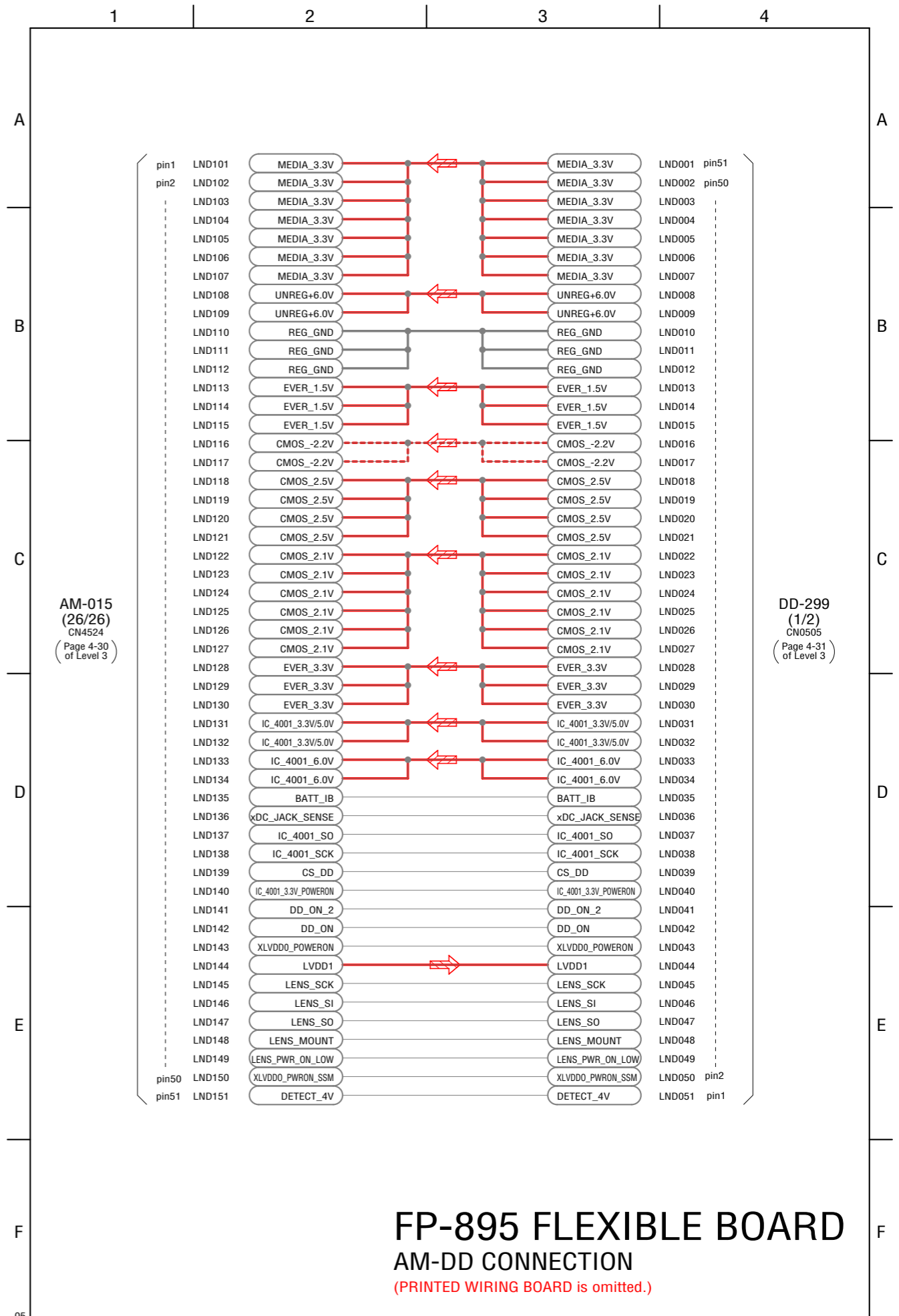
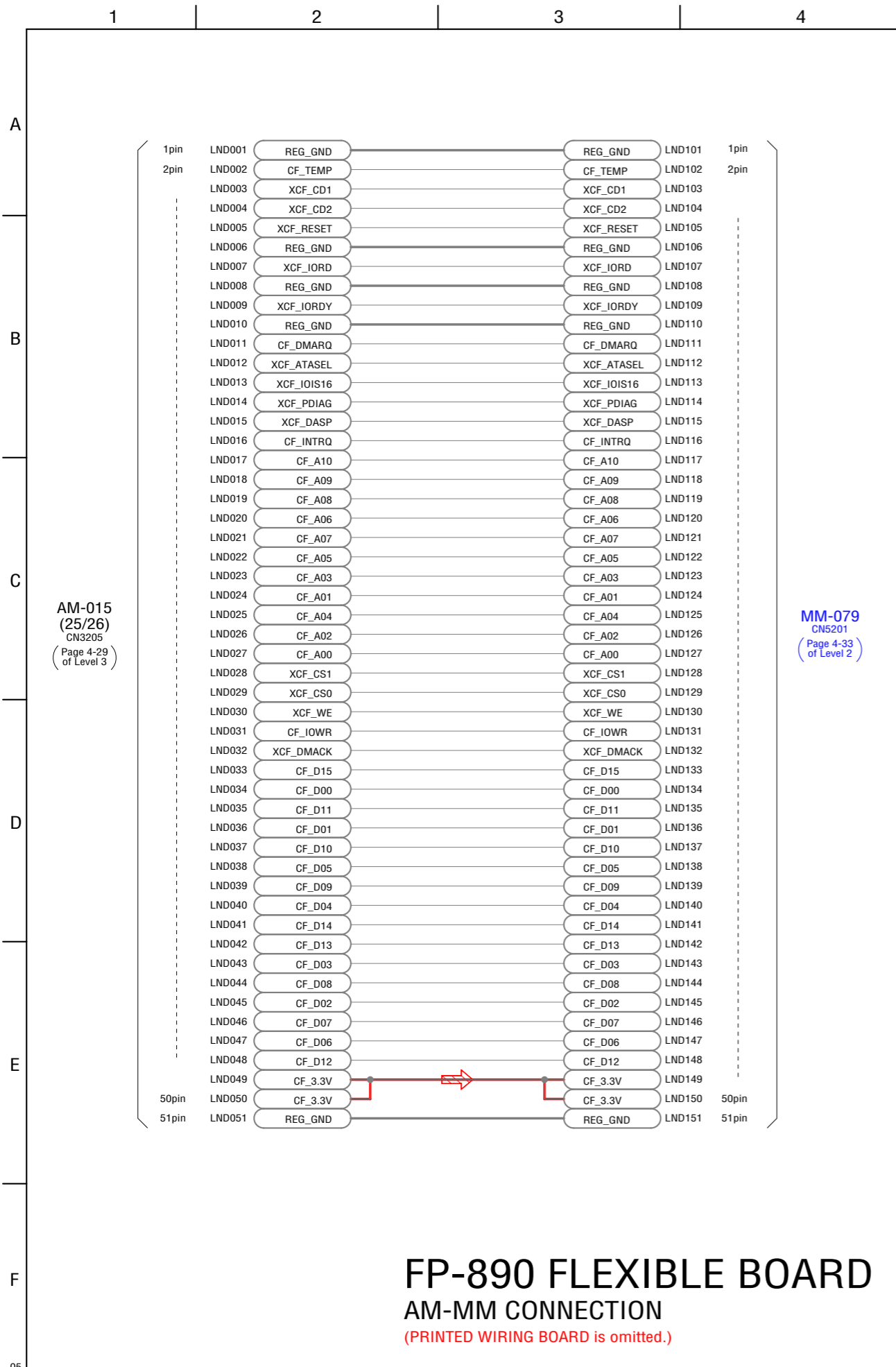
Note: LCD903 and zebra rubber connector are not included in TOP-004 flexible complete board.

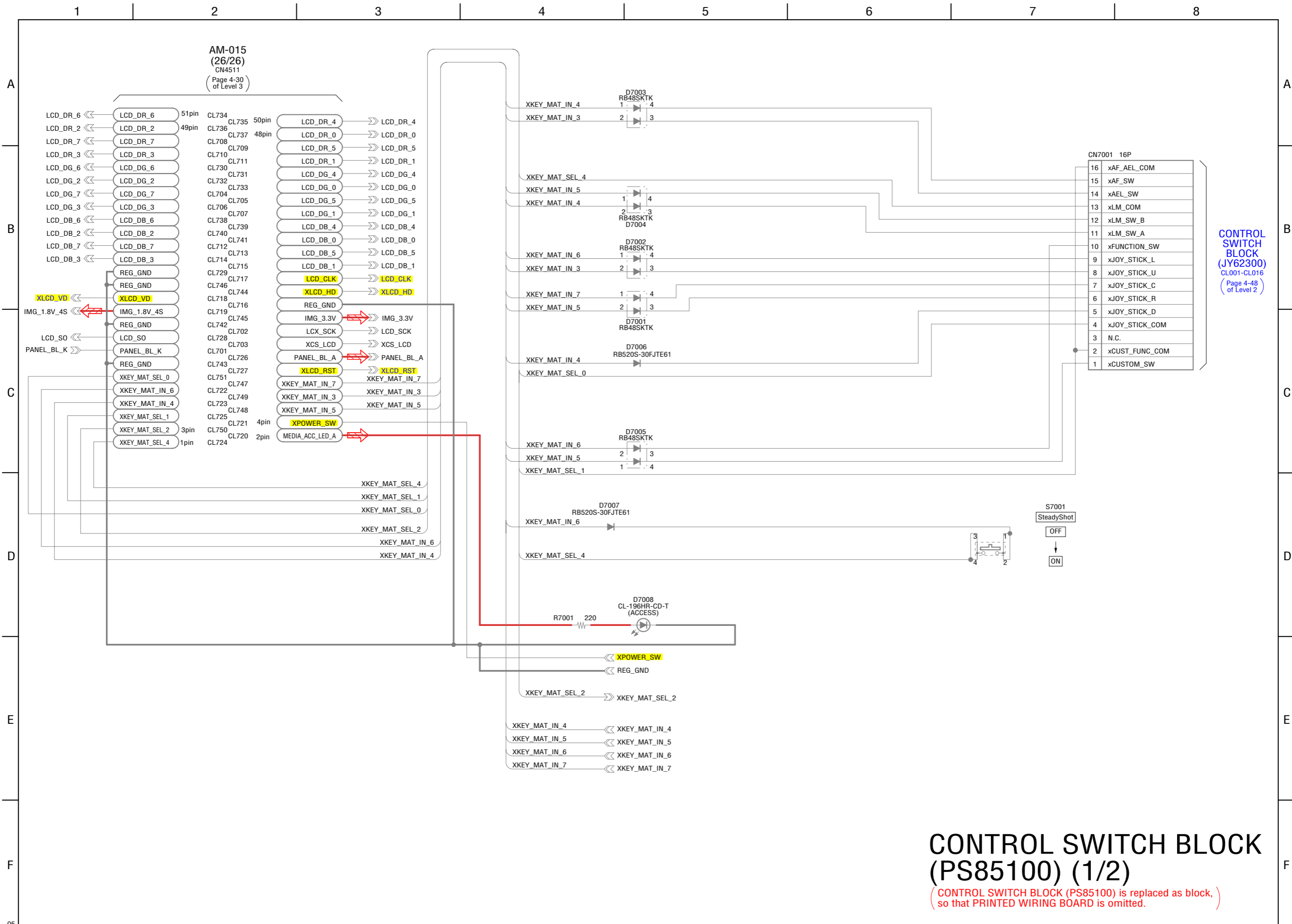
TOP-004 FLEXIBLE BOARD (2/2)

DISPLAY PANEL DRIVE

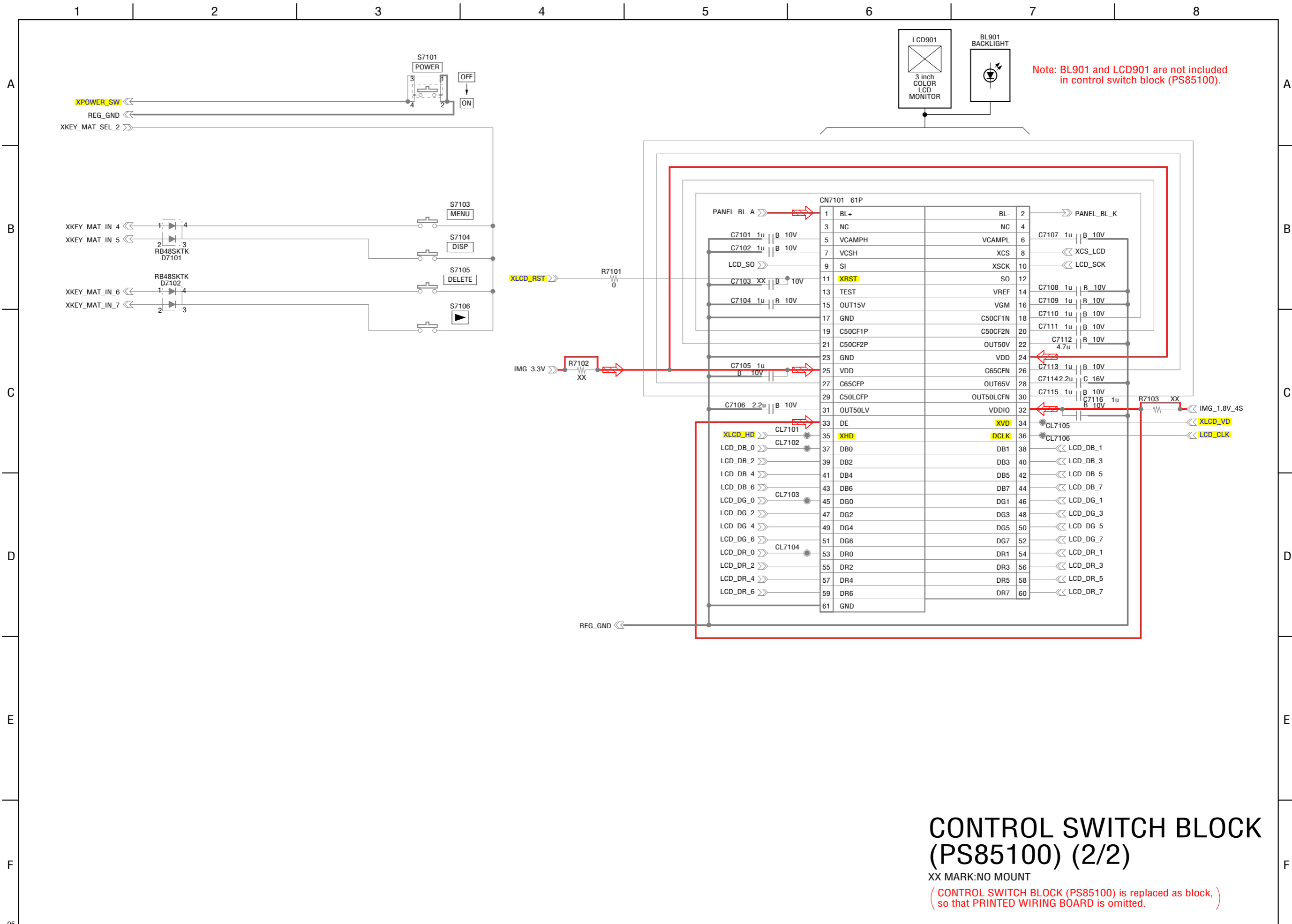
XX MARK:NO MOUNT







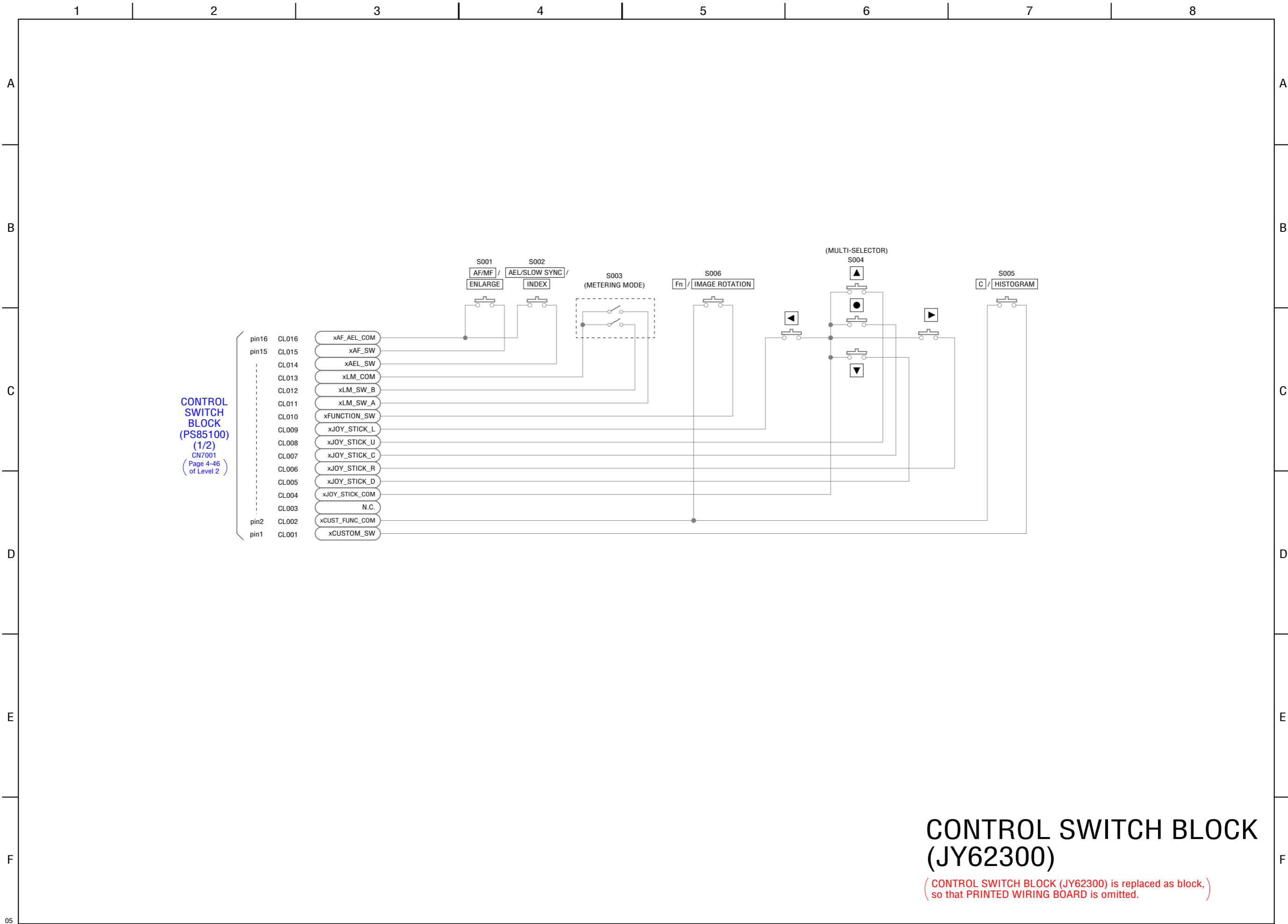
CONTROL SWITCH BLOCK (PS85100) (1/2)
 (CONTROL SWITCH BLOCK (PS85100) is replaced as block, so that PRINTED WIRING BOARD is omitted.)



CONTROL SWITCH BLOCK (PS85100) (2/2)

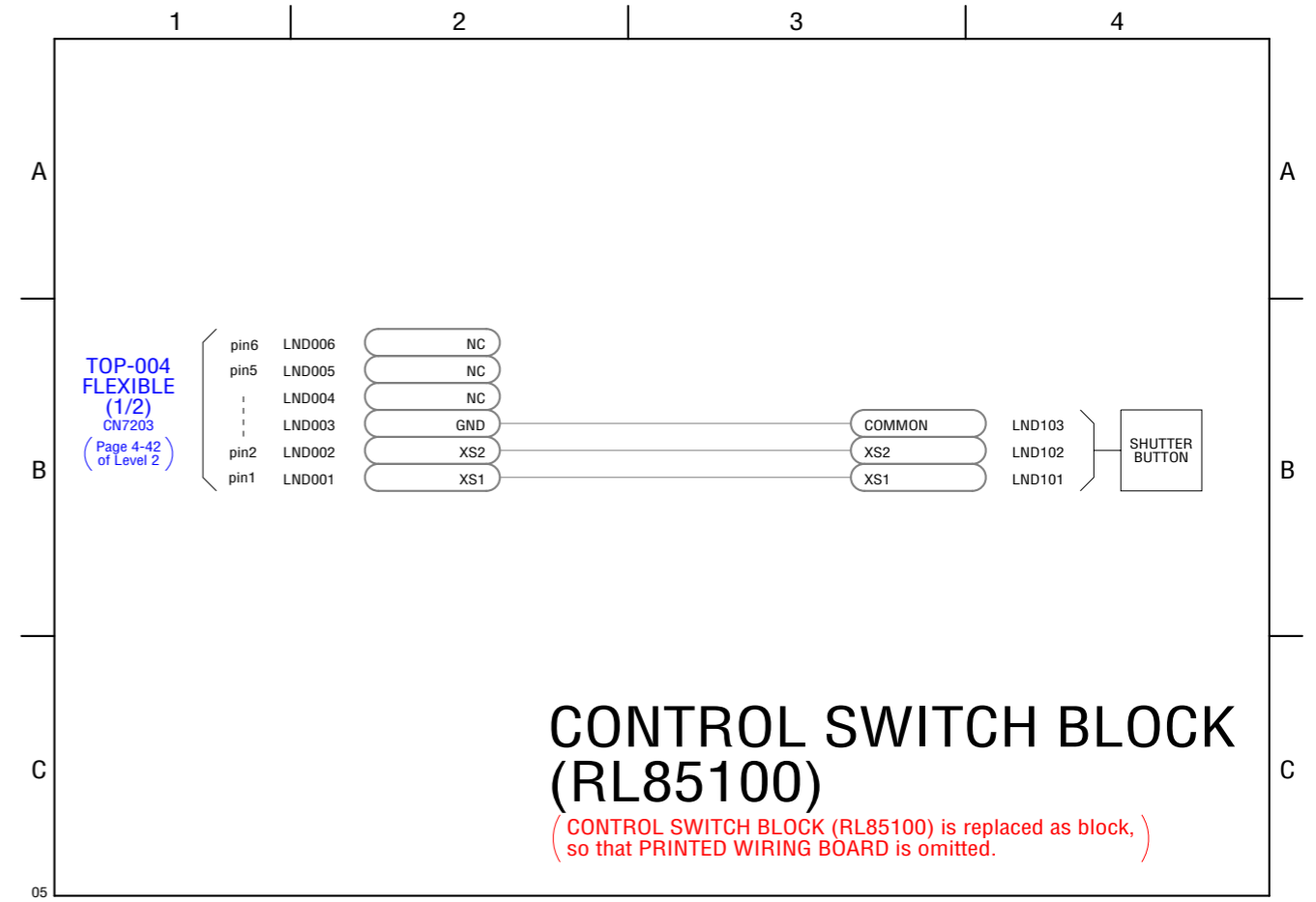
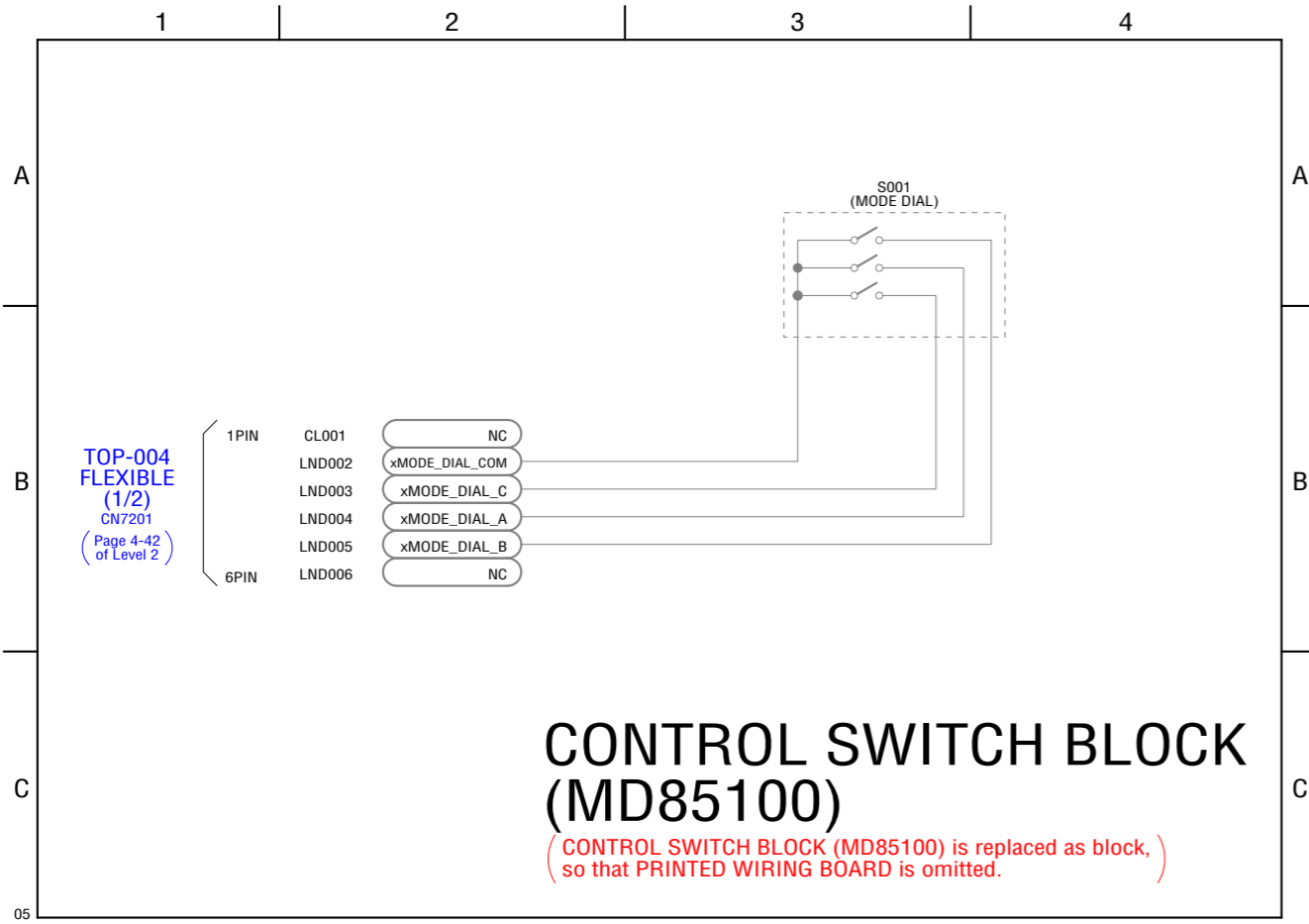
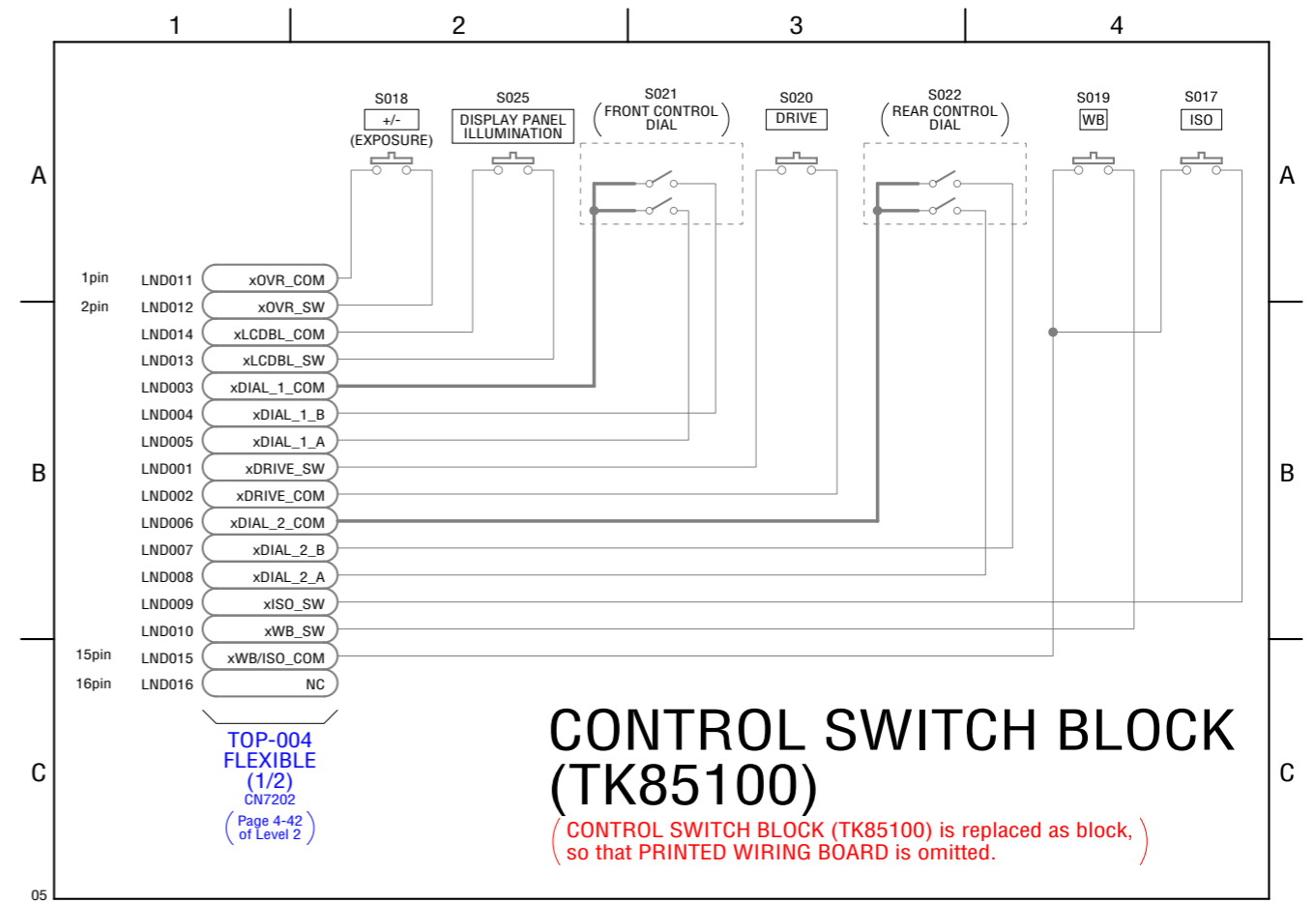
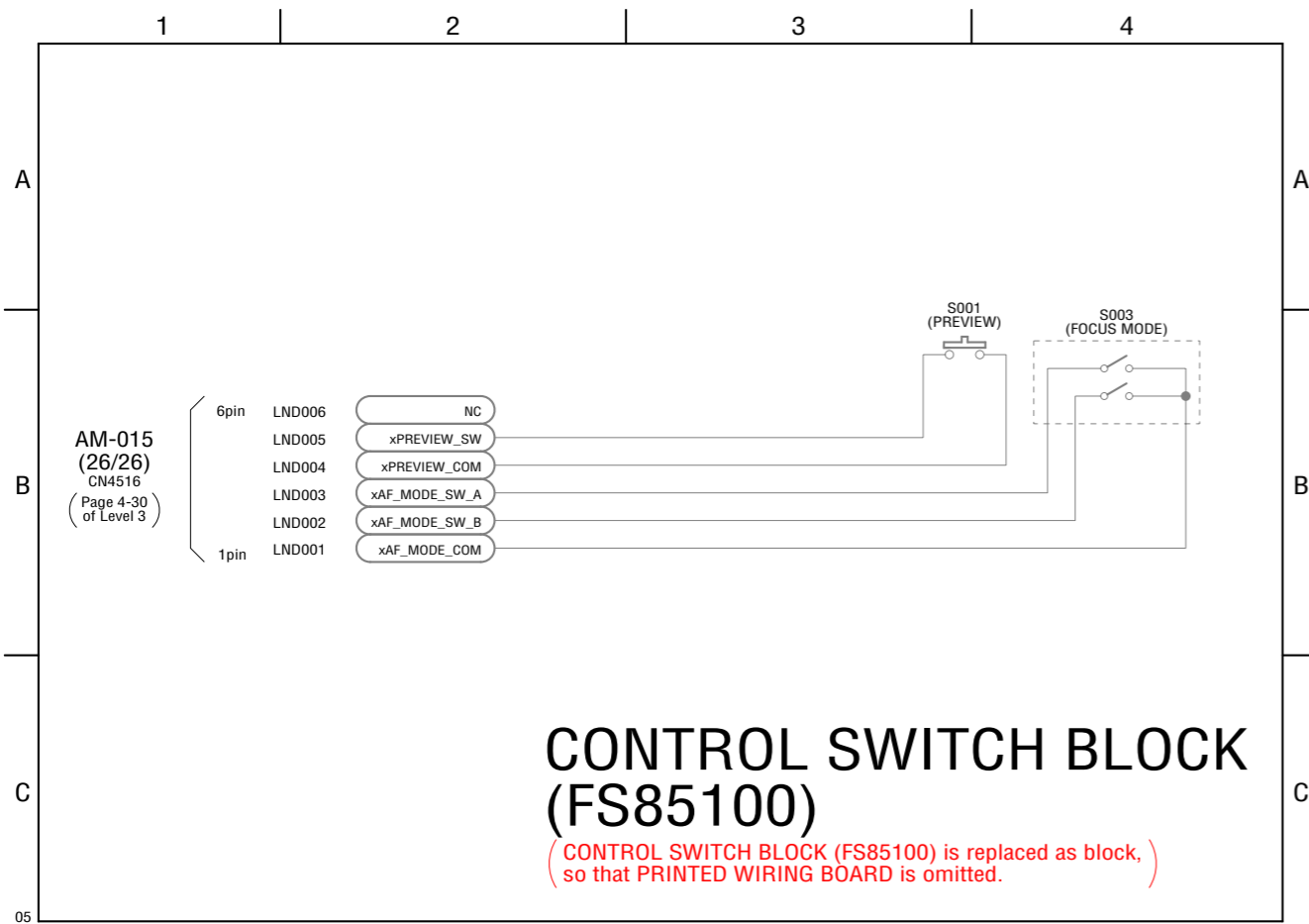
XX MARK:NO MOUNT

(CONTROL SWITCH BLOCK (PS85100) is replaced as block, so that PRINTED WIRING BOARD is omitted.)



CONTROL SWITCH BLOCK (JY62300)

(CONTROL SWITCH BLOCK (JY62300) is replaced as block, so that PRINTED WIRING BOARD is omitted.)



4-3. PRINTED WIRING BOARDS

Link

• IS-030 BOARD	• FP-898 FLEXIBLE BOARD
• MM-079 BOARD	• AE-033 FLEXIBLE BOARD
• GY-009 FLEXIBLE BOARD	• FP-889 FLEXIBLE BOARD
• HOL-005 FLEXIBLE BOARD	• IF-161 FLEXIBLE BOARD
• MA-453 FLEXIBLE BOARD	• TOP-004 FLEXIBLE BOARD







• COMMON NOTE FOR PRINTED WIRING BOARDS

4-3. PRINTED WIRING BOARDS

4-3. PRINTED WIRING BOARDS

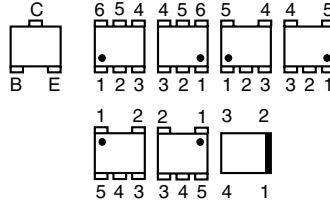
(ENGLISH)

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

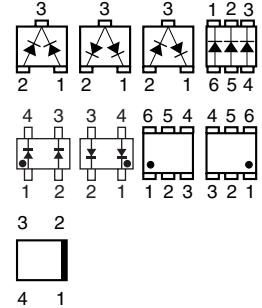
-  : Uses unleaded solder.
-  : Circuit board
-  : Flexible board
-  : Pattern from the side which enables seeing.
-  : pattern of the rear side
(The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.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

- Chip parts.

Transistor









Diode




(JAPANESE)

プリント図共通ノート

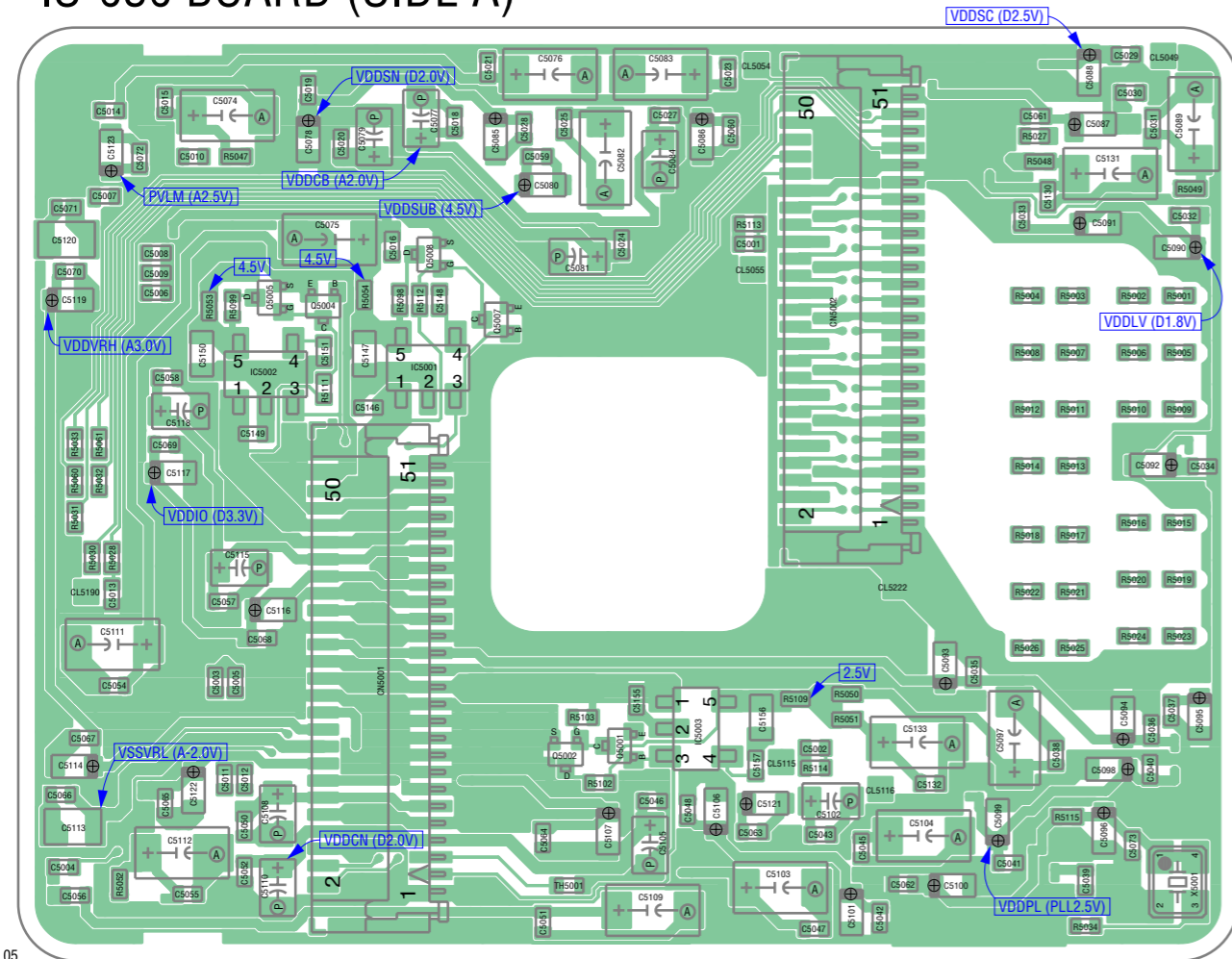
【プリント図ノート】

-  : 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-030 (8 layers)

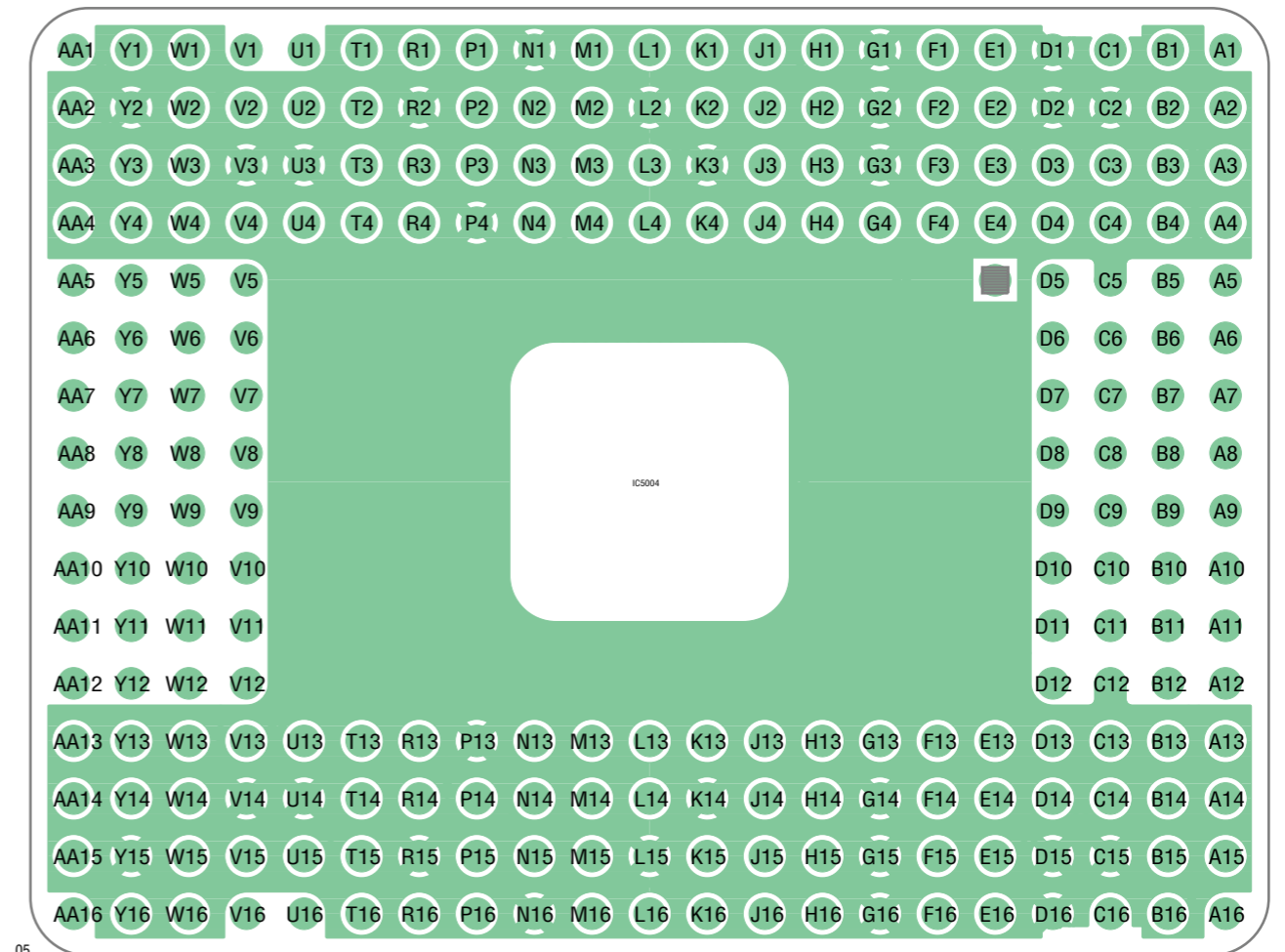
 : Uses unleaded solder.

IS-030 BOARD (SIDE A)



05 1-875-731-11

IS-030 BOARD (SIDE B)



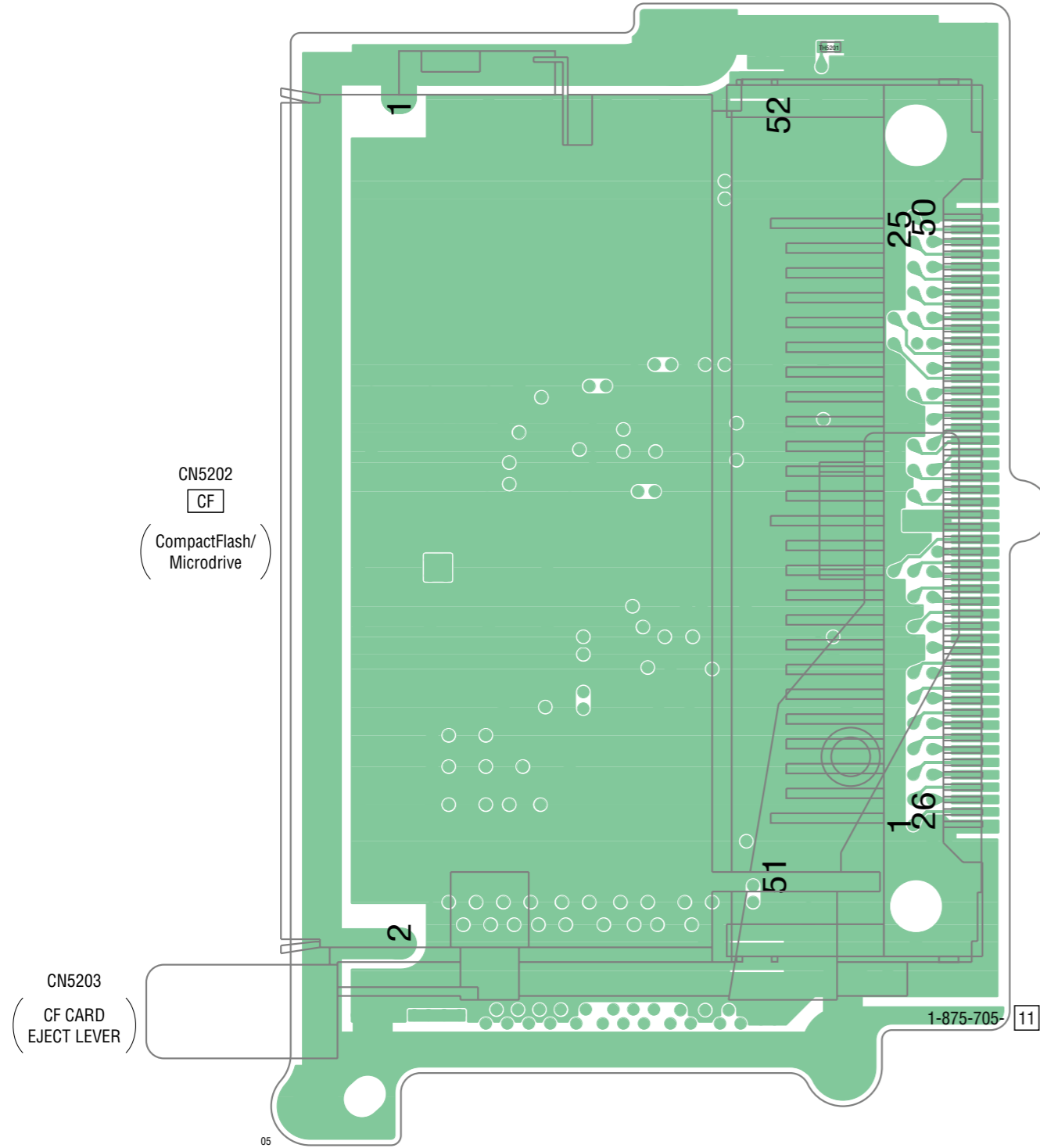
05 Note: IS-030 complete board and all mounted parts (including IC5004 (CMOS Imager)) are not supplied, but they are included in OMEGA unit. 1-875-731-11

Printed wiring boards of the AM-015 and DD-299 boards are not shown.
Pages from 4-52 to 4-54 are not shown.

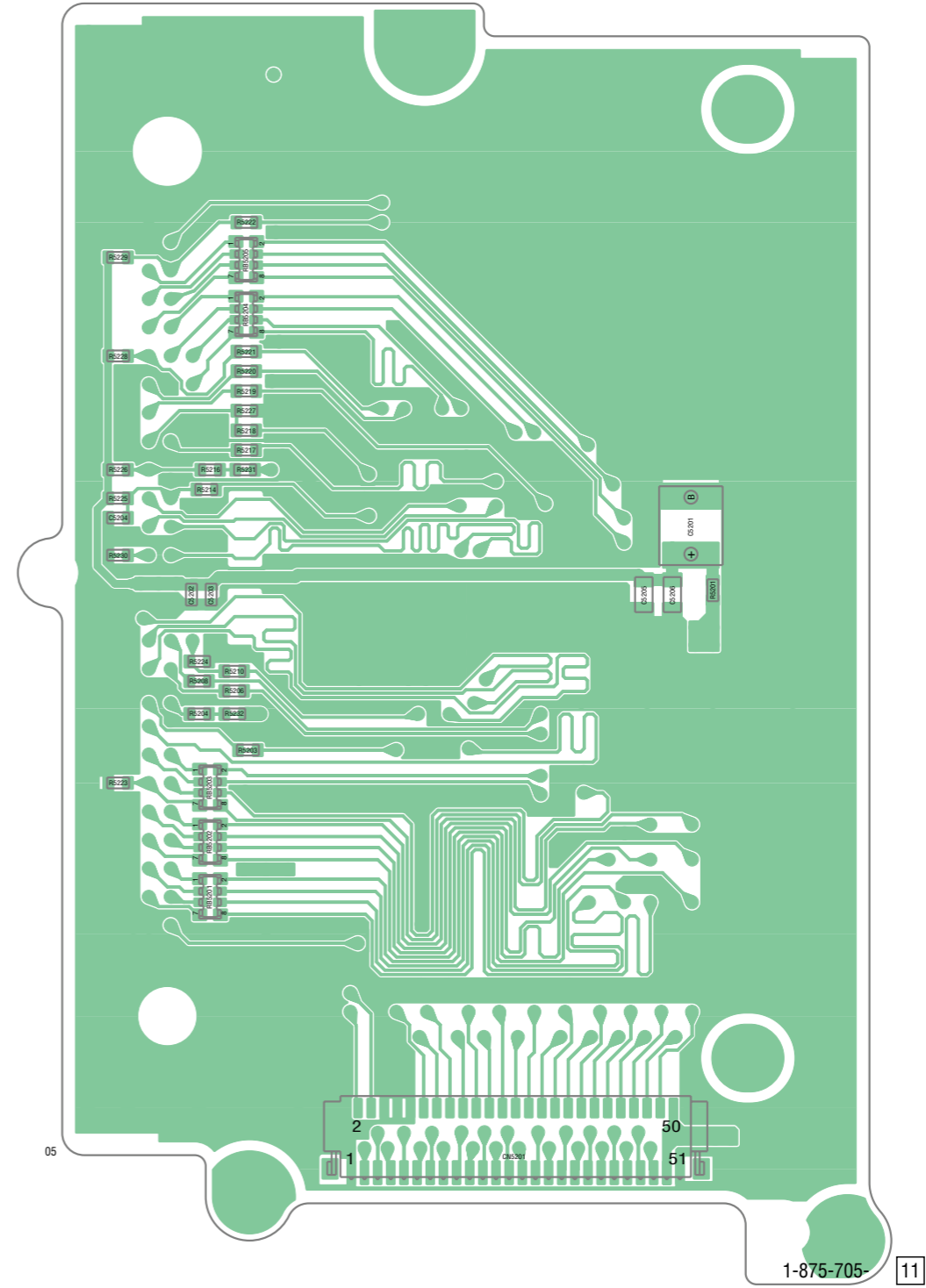
MM-079 (4 layers)

 : Uses unleaded solder.

MM-079 BOARD (SIDE A)

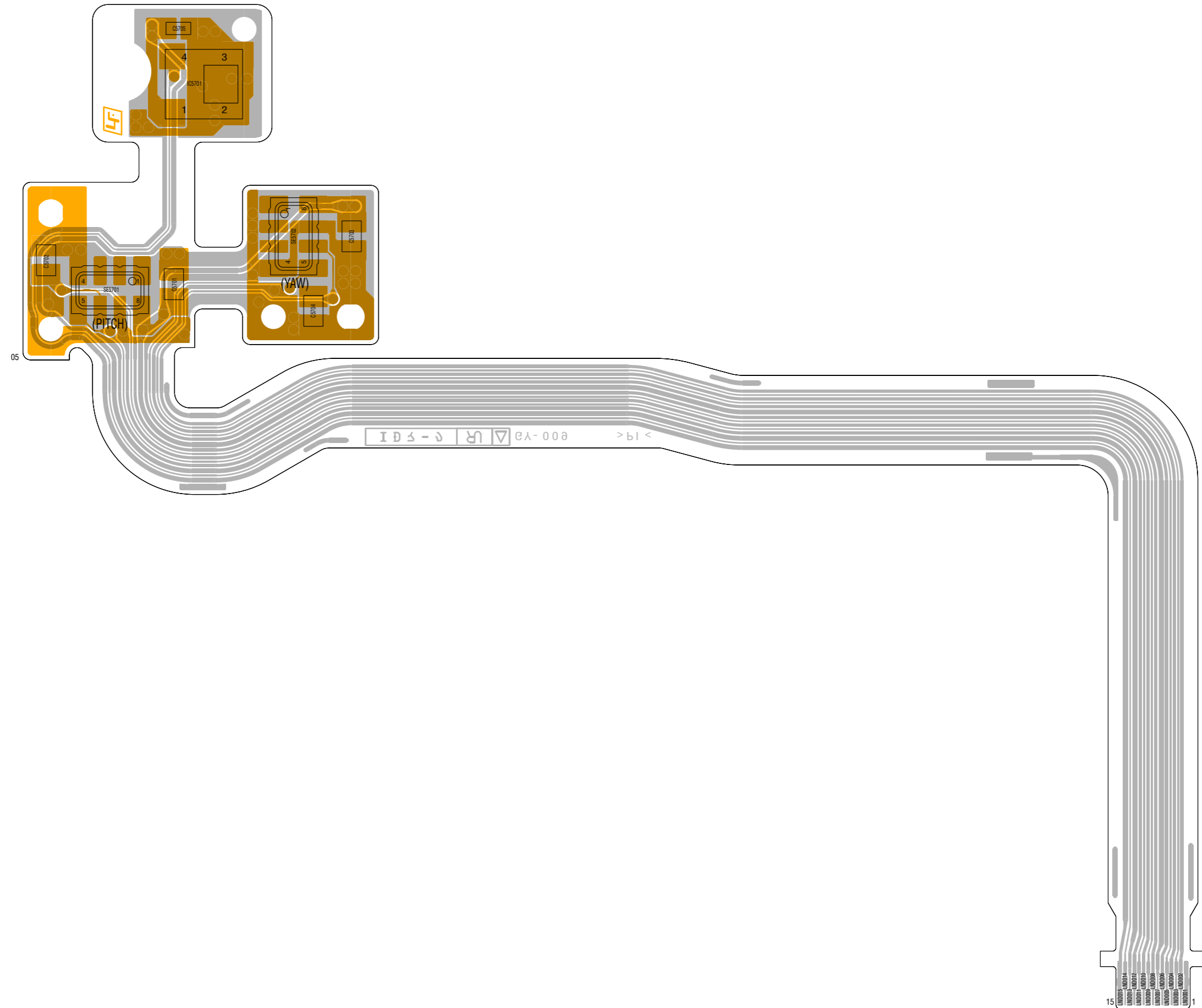


MM-079 BOARD (SIDE B)



 : Uses unleaded solder.

GY-009 FLEXIBLE BOARD



1-875-707-11

HOL-005 (1 layer)

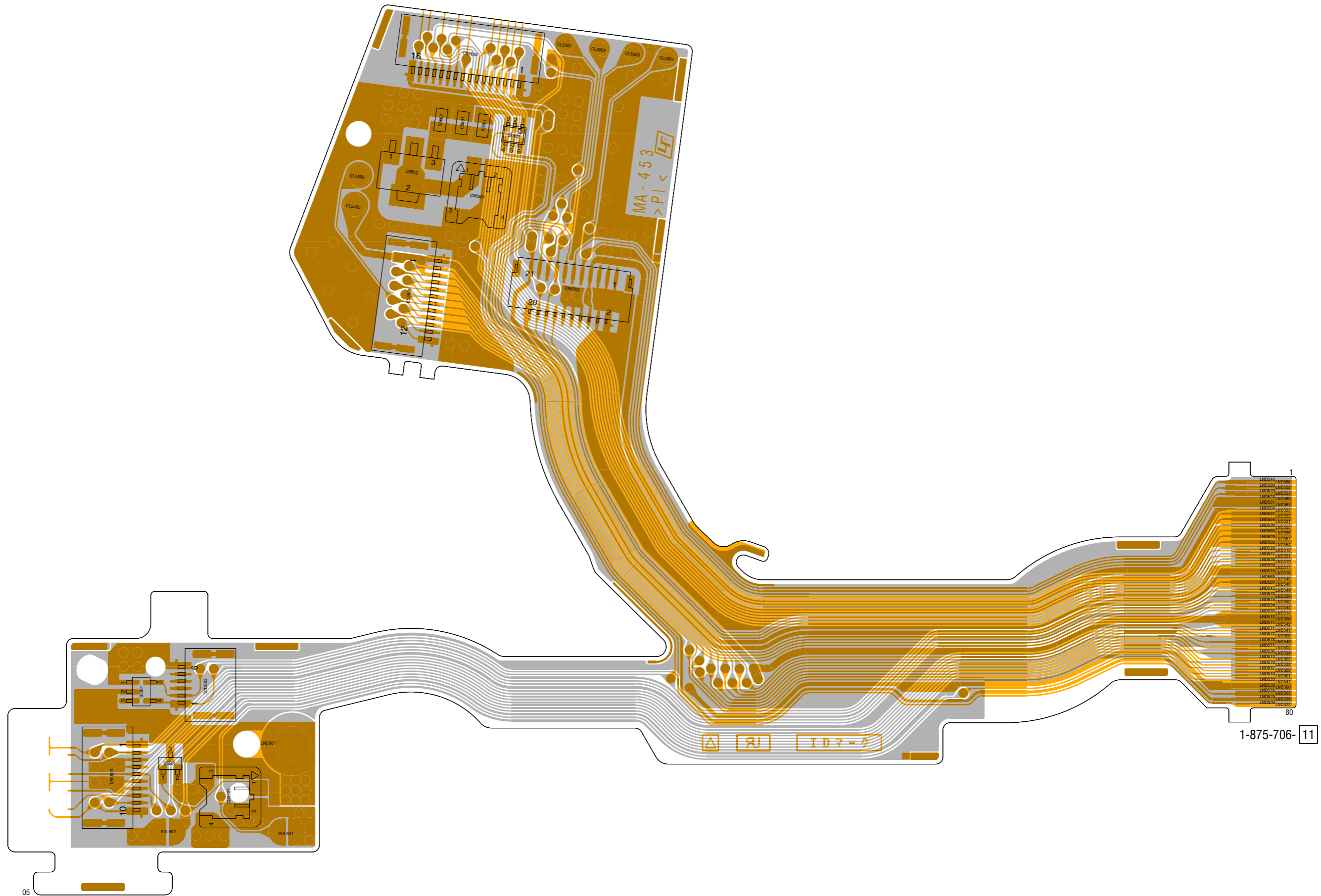
 : Uses unleaded solder.

HOL-005 FLEXIBLE BOARD

Note: ACT902, ACT903, HOL-005 flexible complete board and all mounted parts are not supplied, but they are included in slider unit.



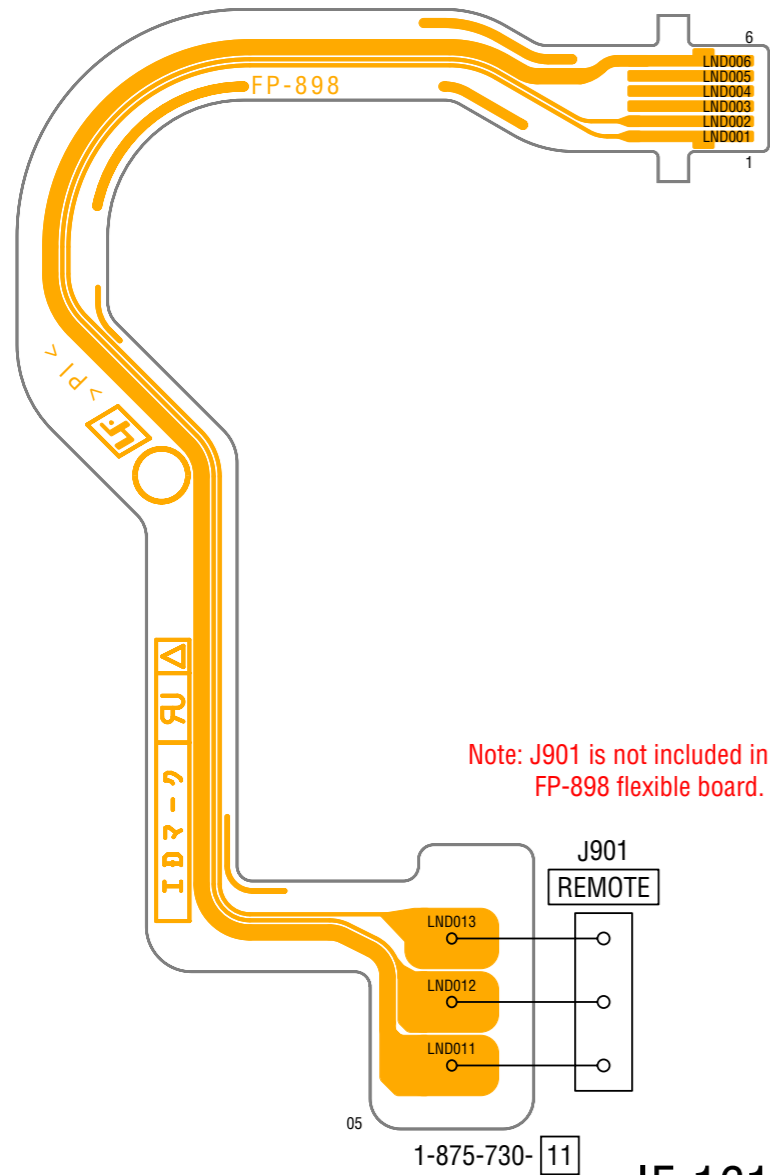
MA-453 FLEXIBLE BOARD



1-875-706-11

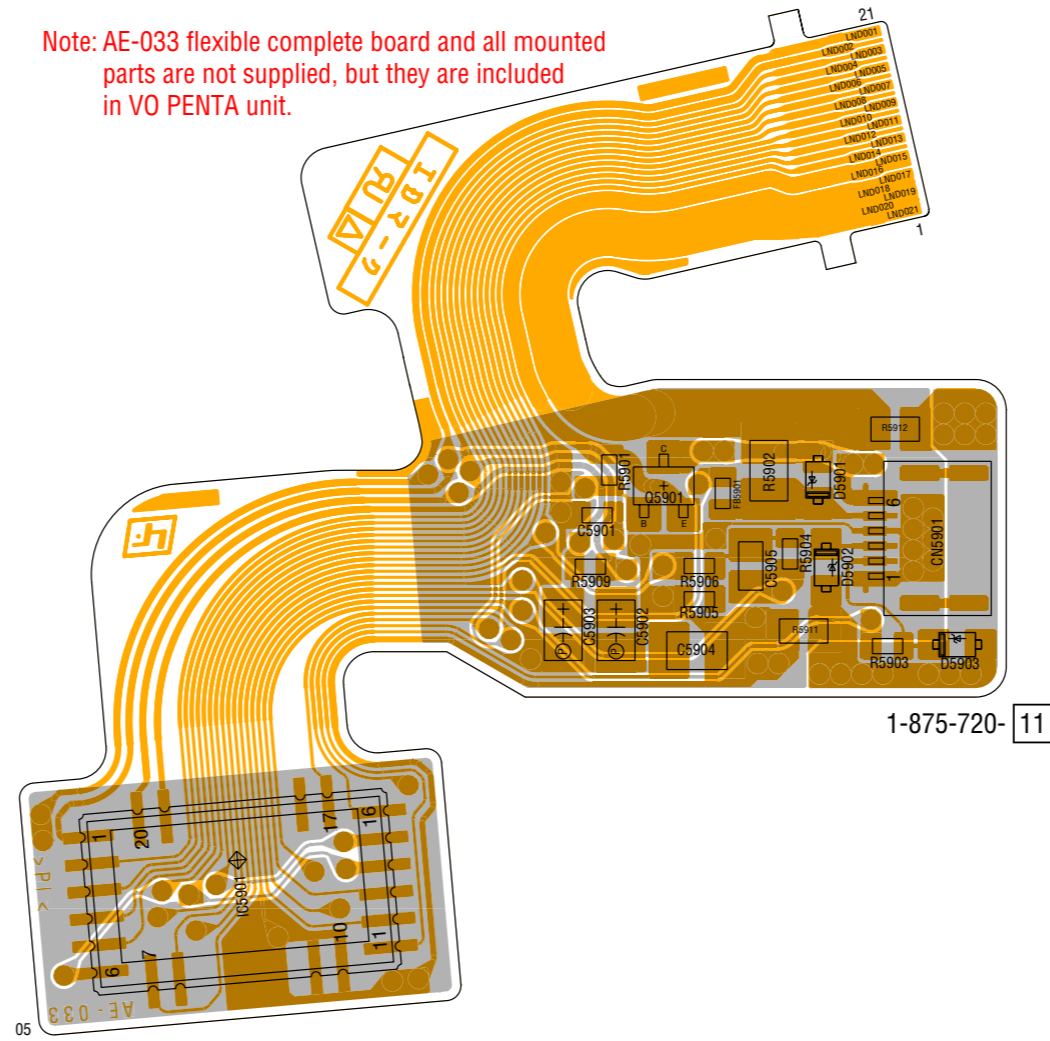
 : Uses unleaded solder.

FP-898 FLEXIBLE BOARD

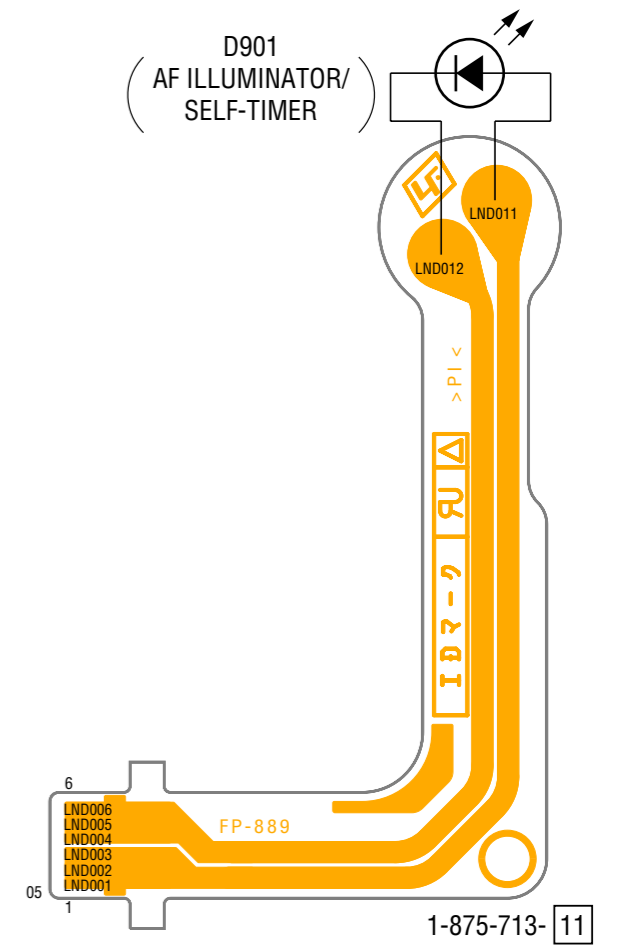


AE-033 FLEXIBLE BOARD

Note: AE-033 flexible complete board and all mounted parts are not supplied, but they are included in VO PENTA unit.

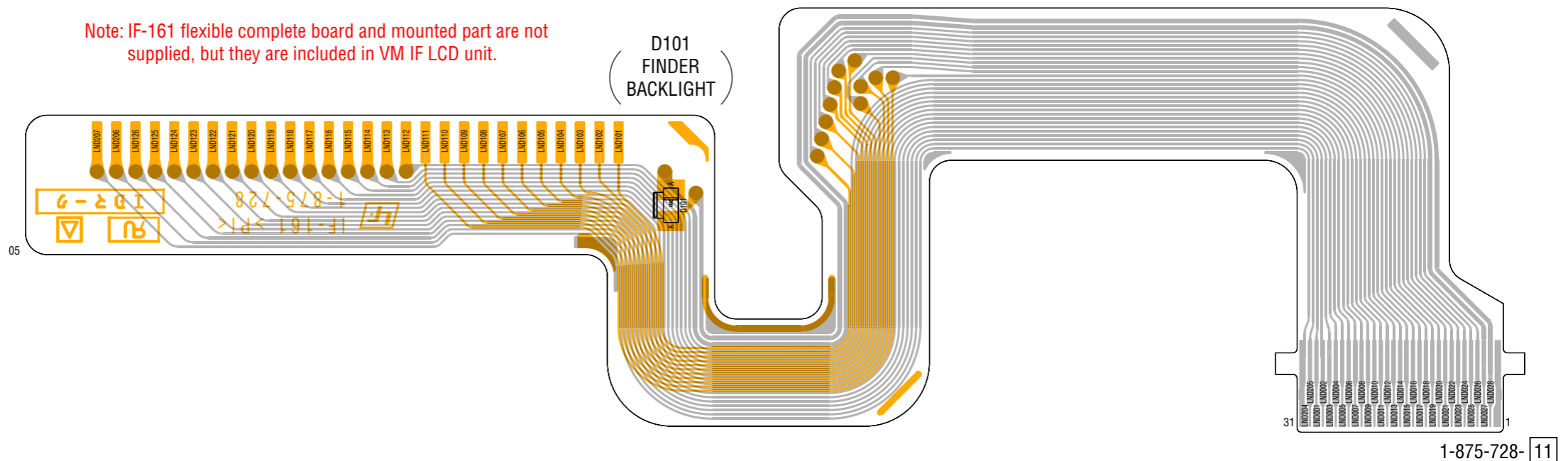


FP-889 FLEXIBLE BOARD



IF-161 FLEXIBLE BOARD

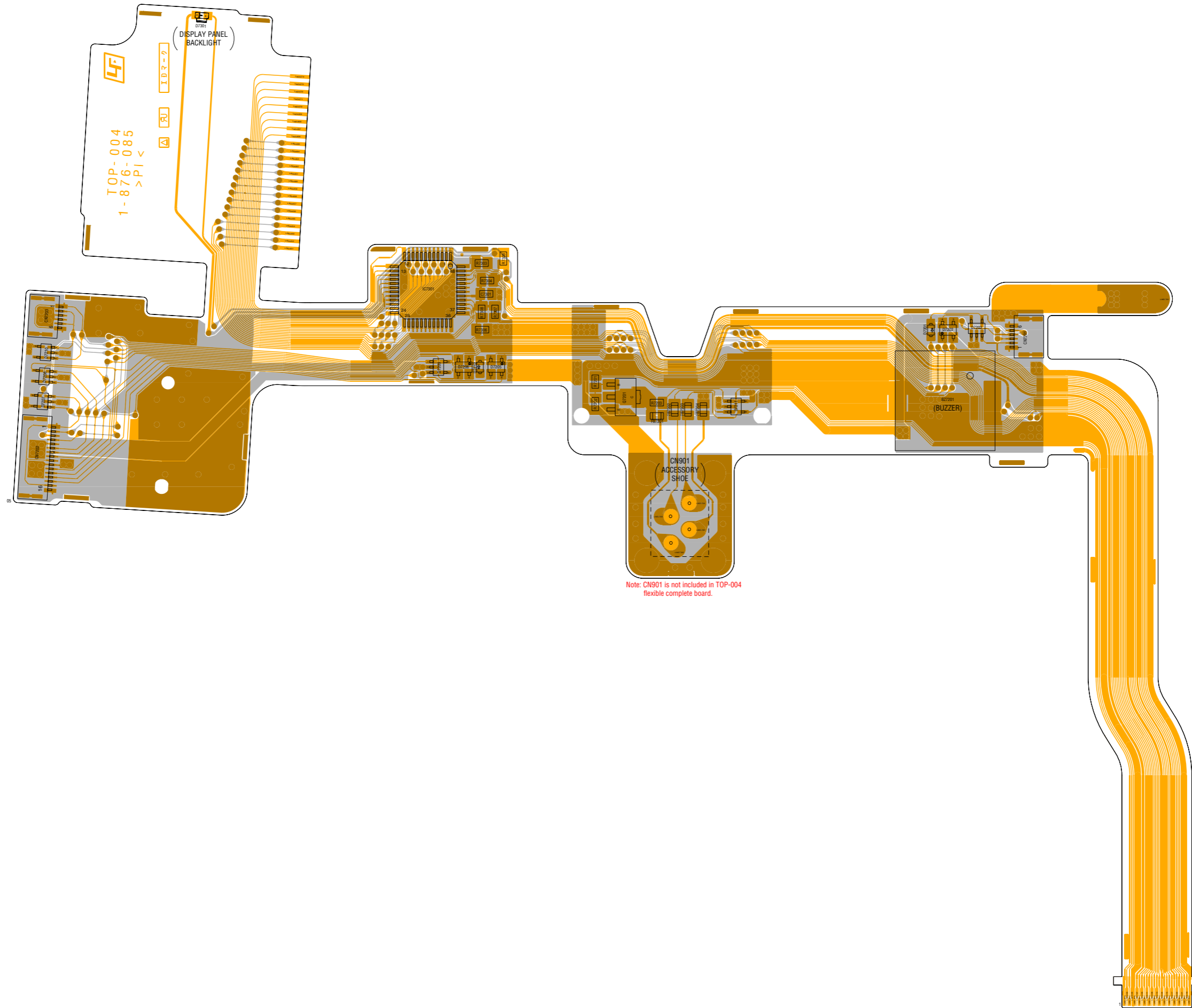
Note: IF-161 flexible complete board and mounted part are not supplied, but they are included in VM IF LCD unit.



TOP-004 (2 layers)

 : Uses unleaded solder.

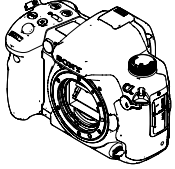
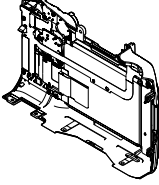
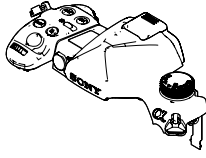
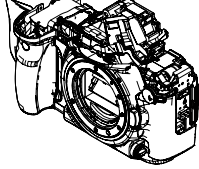
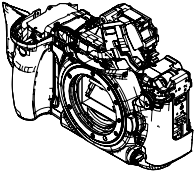
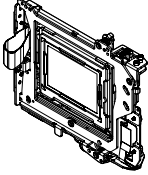
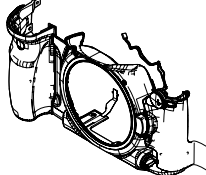
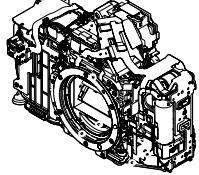
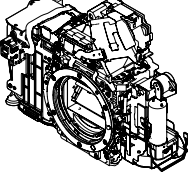
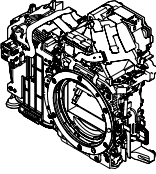
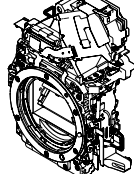
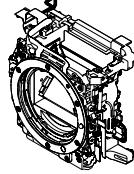
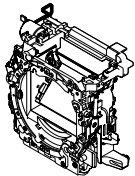
TOP-004 FLEXIBLE BOARD



Note: CN901 is not included in TOP-004 flexible complete board.

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-1	REAR COVER SECTION	TOP COVER SECTION	MAIN BOARD SECTION	
 E	 F	 G	 H	
OVERALL SECTION-2	TEBURE UNIT SECTION	FRONT COVER SECTION	SIDE FRAME SECTION	
 I	 J	 K	 L	
SHUTTER SECTION	BATTERY HOLDER SECTION	MIRROR BOX SECTION (PENTA UNIT)	MIRROR BOX SECTION (SUB UNIT-1)	
 M				
MIRROR BOX SECTION (SUB UNIT-2)				

Link

ELECTRICAL PARTS LIST

ACCESSORIES

• GY-009 FLEXIBLE BOARD J	• MA-453 FLEXIBLE BOARD H	• TOP-004 FLEXIBLE BOARD C
• IS-030 BOARD F	• MM-079 BOARD J	

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...

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

(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。

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
TH : Thai model
TW : Taiwan model

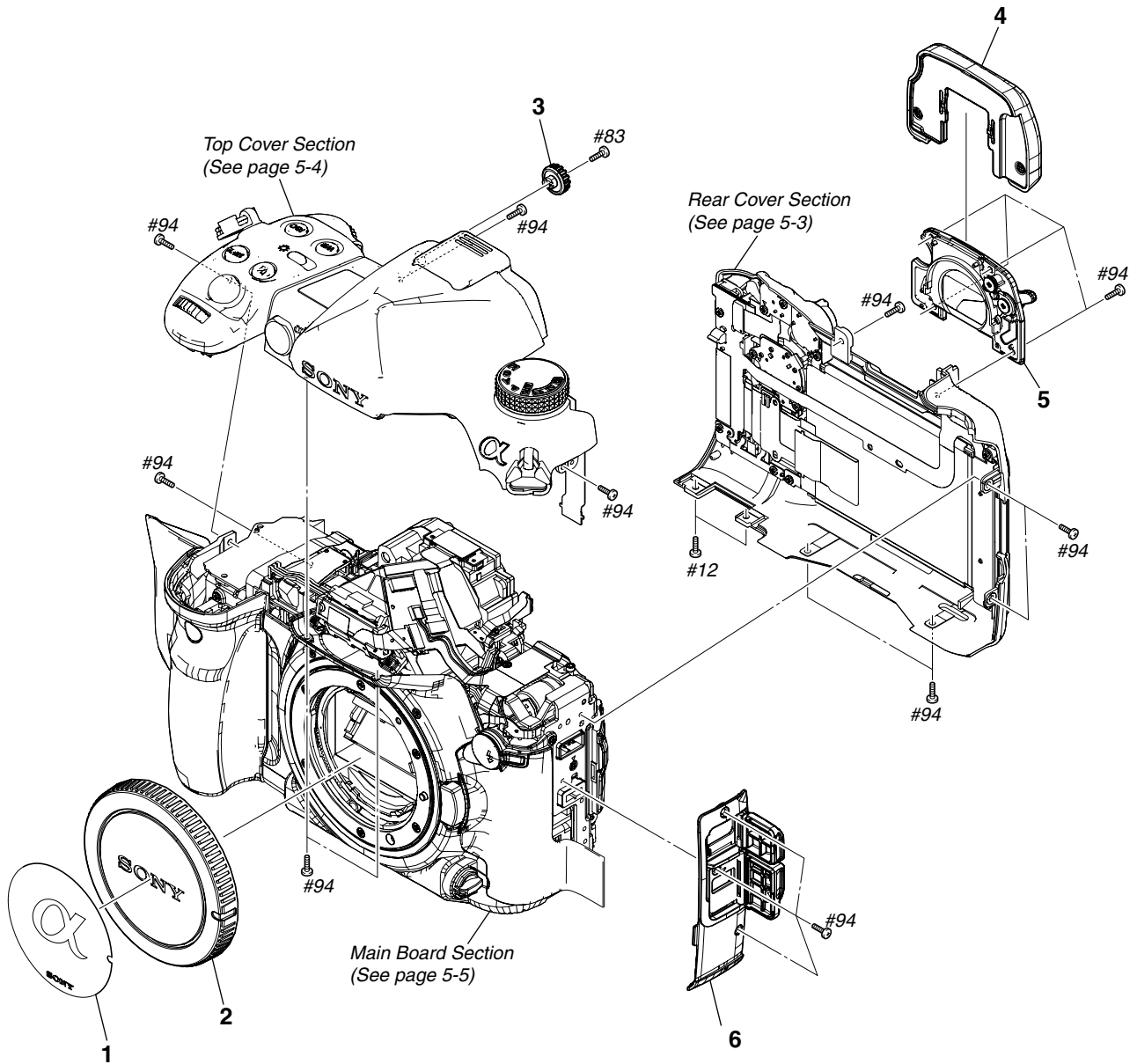
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL SECTION-1



Ref. No.	Part No.	Description
1	2-894-387-01	SEAL, BODY CAP
2	2-688-728-02	CAP, BODY
3	3-269-762-01	DIAL, DIOPTER ADJUST
4	X-2319-492-1	AC EYE HOOD ASSY
5	X-2319-495-1	VM EYE PIECE FRAME ASSY

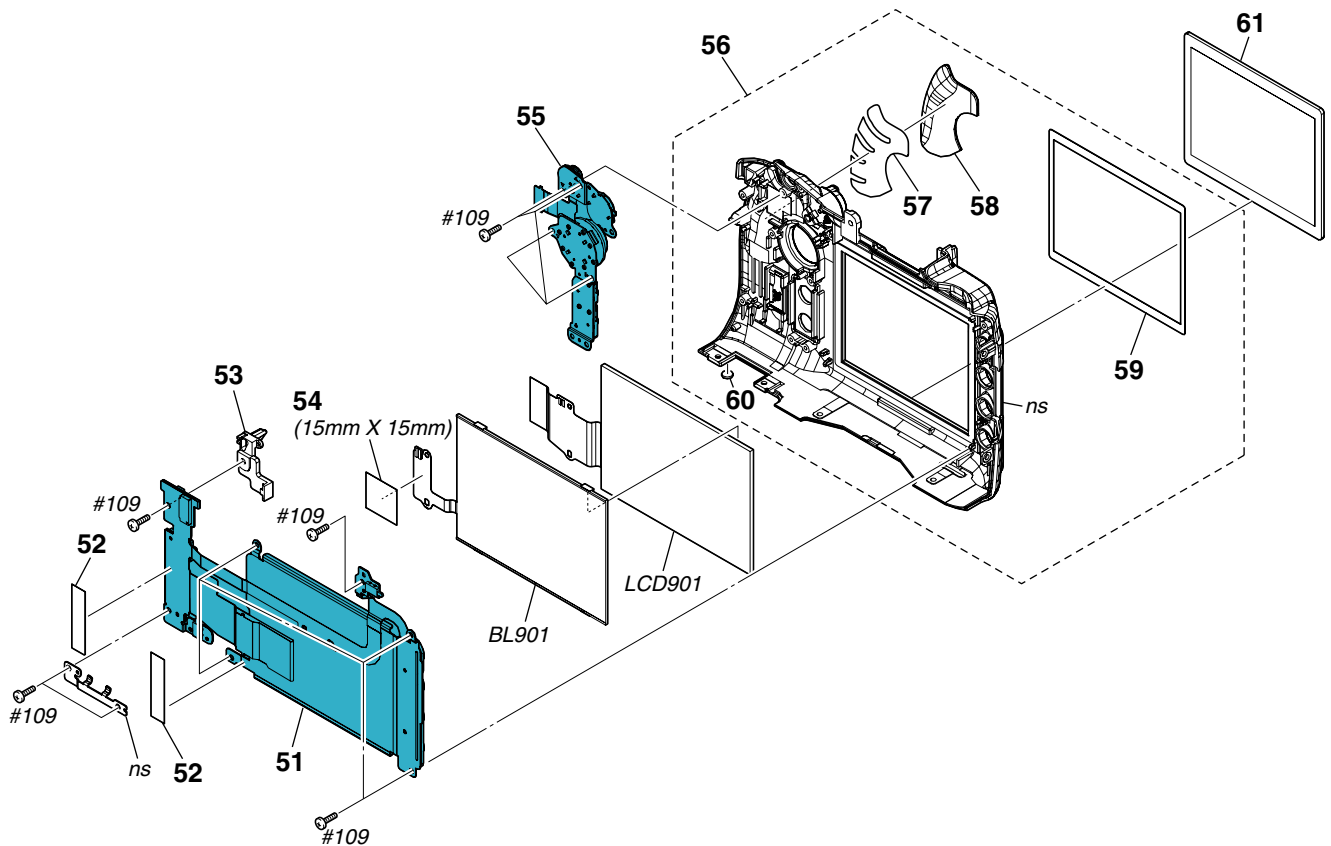
Ref. No.	Part No.	Description
6	X-2319-493-1	CV SIDE COVER ASSY
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#83	3-080-204-41	SCREW, TAPPING, P2 (Black)
#94	2-515-483-31	SCREW (M1.7), LOCK ACE, P2 (Black)

5. REPAIR PARTS LIST

HARDWARE LIST

5-1-2. REAR COVER SECTION

ns: not supplied



CAUTION:
For the part of 54, cut SHEET, INSULATING, CD (3-091-260-01) into the desired length and use it.

CAUTION:
54番は、CD絶縁シート(3-091-260-01)を切って使用。

Ref. No.	Part No.	Description
51	1-480-662-11	SWITCH BLOCK, CONTROL (PS85100)
* 52	3-280-675-01	SCREEN, BL
* 53	4-110-965-01	CV WINDOW (ACCESS)
54	CAUTION	SHEET (T)
55	1-480-183-11	SWITCH BLOCK, CONTROL (JY62300)
56	X-2319-520-1	CV REAR COVER ASSY
57	4-110-969-01	CV REAR RUBBER ADHESIVE SHEET

Ref. No.	Part No.	Description
58	4-110-968-01	CV REAR RUBBER
59	4-110-971-01	CV ADHESIVE SHEET (LCD)
60	4-113-595-01	CV STOP CUSHION
61	4-110-966-01	CV LCD WINDOW
BL901	1-480-291-11	BLOCK, LIGHT GUIDE PLATE (3.0)
LCD901	8-753-286-94	ACX561AKA-1
#109	2-515-483-21	SCREW (M1.7), LOCK ACE, P2 (Black)

5. REPAIR PARTS LIST

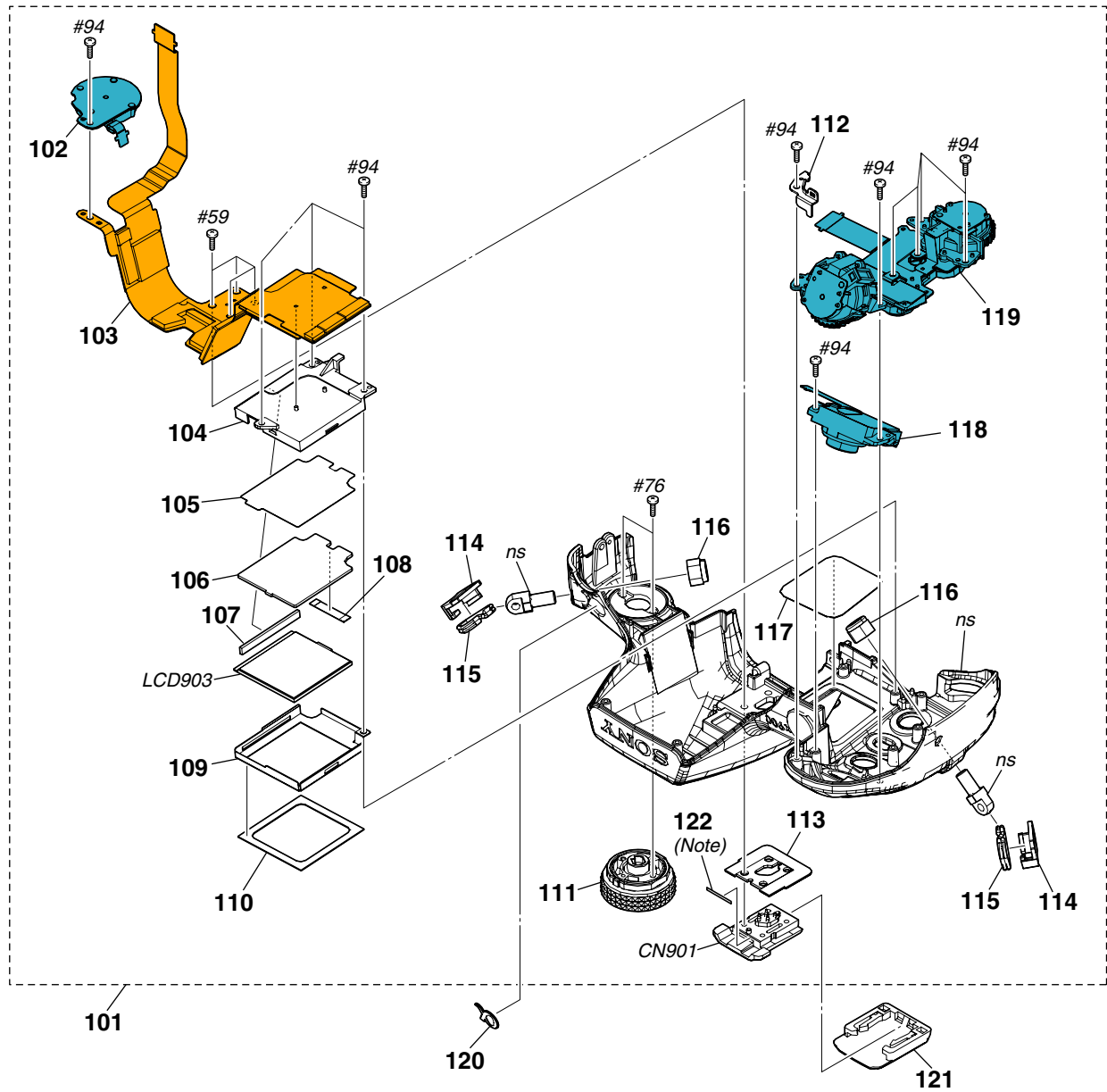
HARDWARE LIST

5-1-3. TOP COVER SECTION

ns: not supplied

Note: In the set to which the CV accessory shoe sheet is not pasted, this part is unnecessary.

Note: CV アクセサリーシートが貼られていないセットには、この部品は不要です。



Ref. No.	Part No.	Description
101	A-1557-714-A	CV TOP COVER BLOCK ASSY
102	1-480-660-11	SWITCH BLOCK, CONTROL (MD85100)
103	A-1557-729-A	TOP-004 FLEXIBLE BOARD, COMPLETE
104	4-110-827-01	CV SUB LCD HOLDER
105	4-110-826-01	CV REFLECTION SHEET
106	4-110-825-01	CV LIGHT GUIDE PLATE
107	1-822-124-11	ZEBRA RUBBER CONNECTOR
108	4-110-828-01	CV LED REFLECTION SHEET
109	4-110-824-01	CV STATUS LCD RETAINER,
110	4-110-823-01	CV STATUS LCD CUSHION,
111	X-2319-505-1	CT MODE DIAL ASSY
* 112	4-110-829-01	CV FRONT (G) HOOK
113	2-689-299-01	PLATE, SHOE PAVING
114	3-722-005-02	PAD, TRIANGLE BRACKET

Ref. No.	Part No.	Description
115	3-269-823-01	EYELET, TRIANGLE
116	3-680-316-02	NUT (M4), STOPPER
117	4-110-832-01	CV SUB LCD WINDOW
118	1-480-663-11	SWITCH BLOCK, CONTROL (RL85100)
119	1-480-659-11	SWITCH BLOCK, CONTROL (TK85100)
120	3-269-855-01	EMBLEM, LOGO
121	2-688-767-02	COVER, SHOE
122	4-121-960-01	CV ACCESSORY SHOE SHEET (Note)
CN901	X-2179-803-2	SHOE ASSY, ACCESSORY
LCD903	1-802-715-11	DISPLAY PANEL, LIQUID CRYSTAL
#59	3-080-205-21	SCREW, TAPPING, P2 (Silver)
#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)
#94	2-515-483-31	SCREW (M1.7), LOCK ACE, P2 (Black)

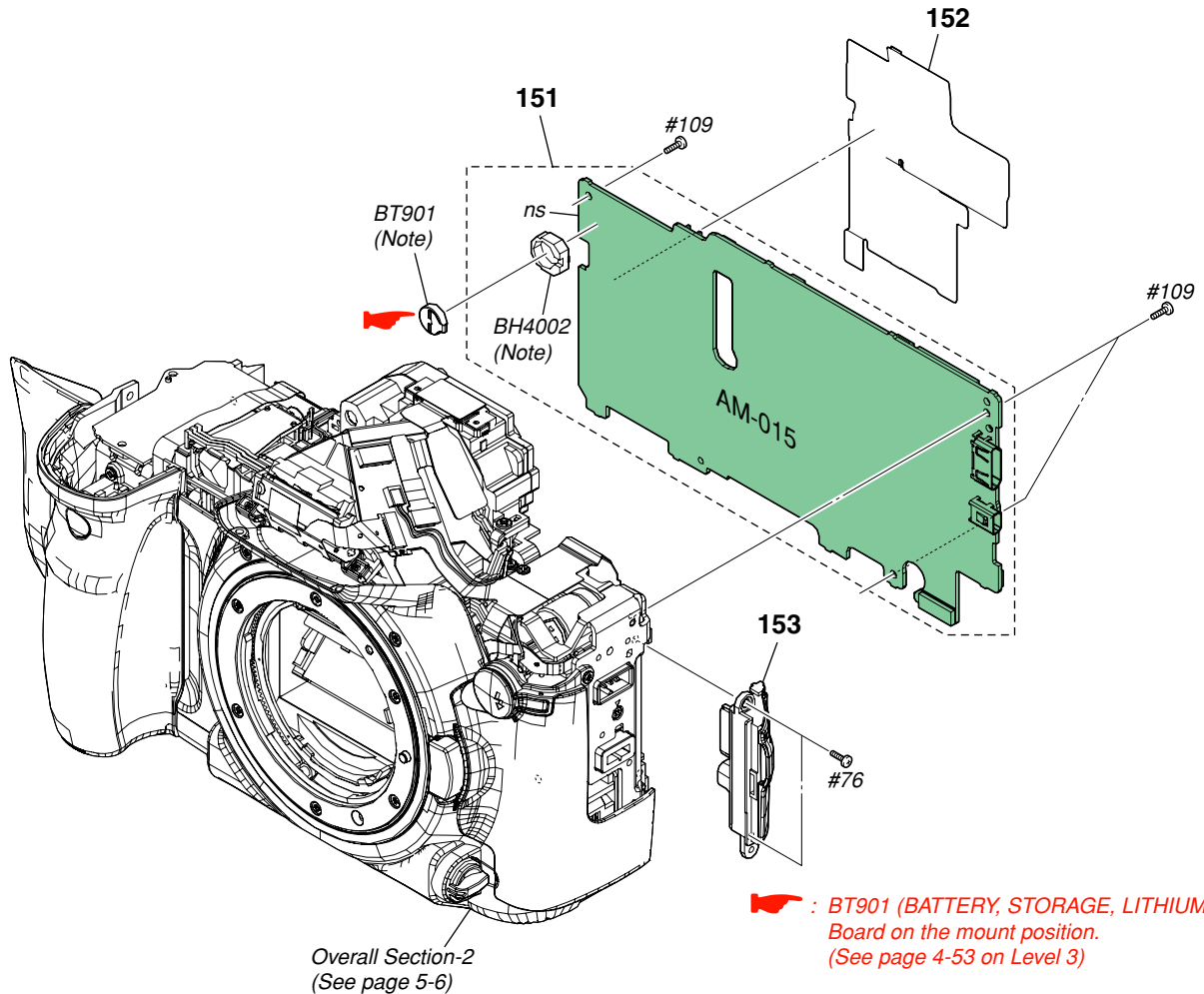
5. REPAIR PARTS LIST

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。

• Refer to page 5-1 for mark △.

Note: Replace the battery holder (BH4002) together when replacing the lithium battery (BT901) on the AM-015 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-015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 (BH4002) 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。

Ref. No.	Part No.	Description
151	A-1565-987-A	AM-015 BOARD, COMPLETE (SERVICE)
152	4-110-791-01	BD LABEL (AM)
153	X-2319-494-1	CV USB COVER ASSY
△*BH4002	1-756-615-51	HOLDER, BATTERY (Note)

Ref. No.	Part No.	Description
△BT901	1-756-134-12	BATTERY, STORAGE, LITHIUM (Note)
#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)
#109	2-515-483-21	SCREW (M1.7), LOCK ACE, P2 (Black)

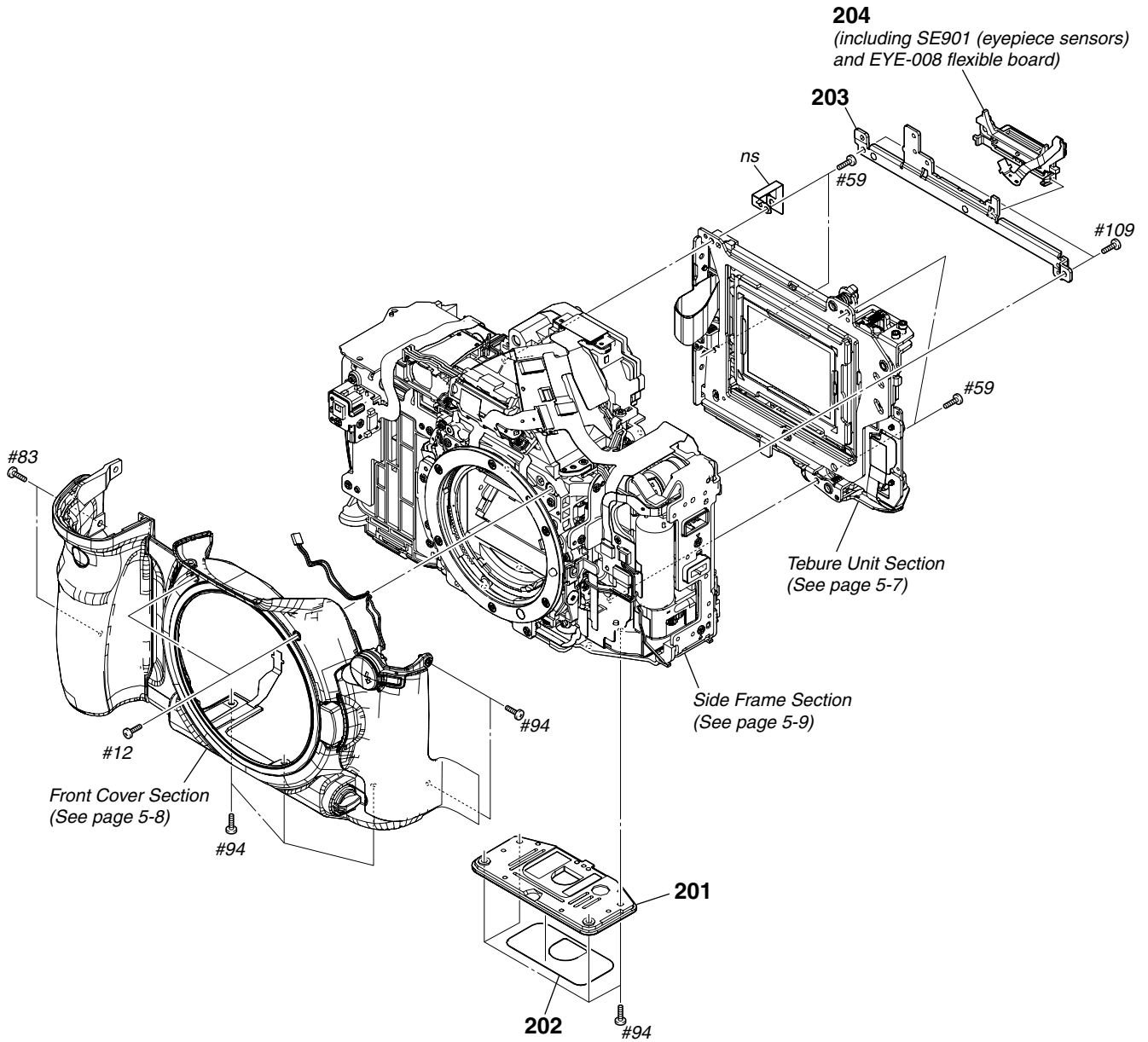
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-5. OVERALL SECTION-2

ns: not supplied



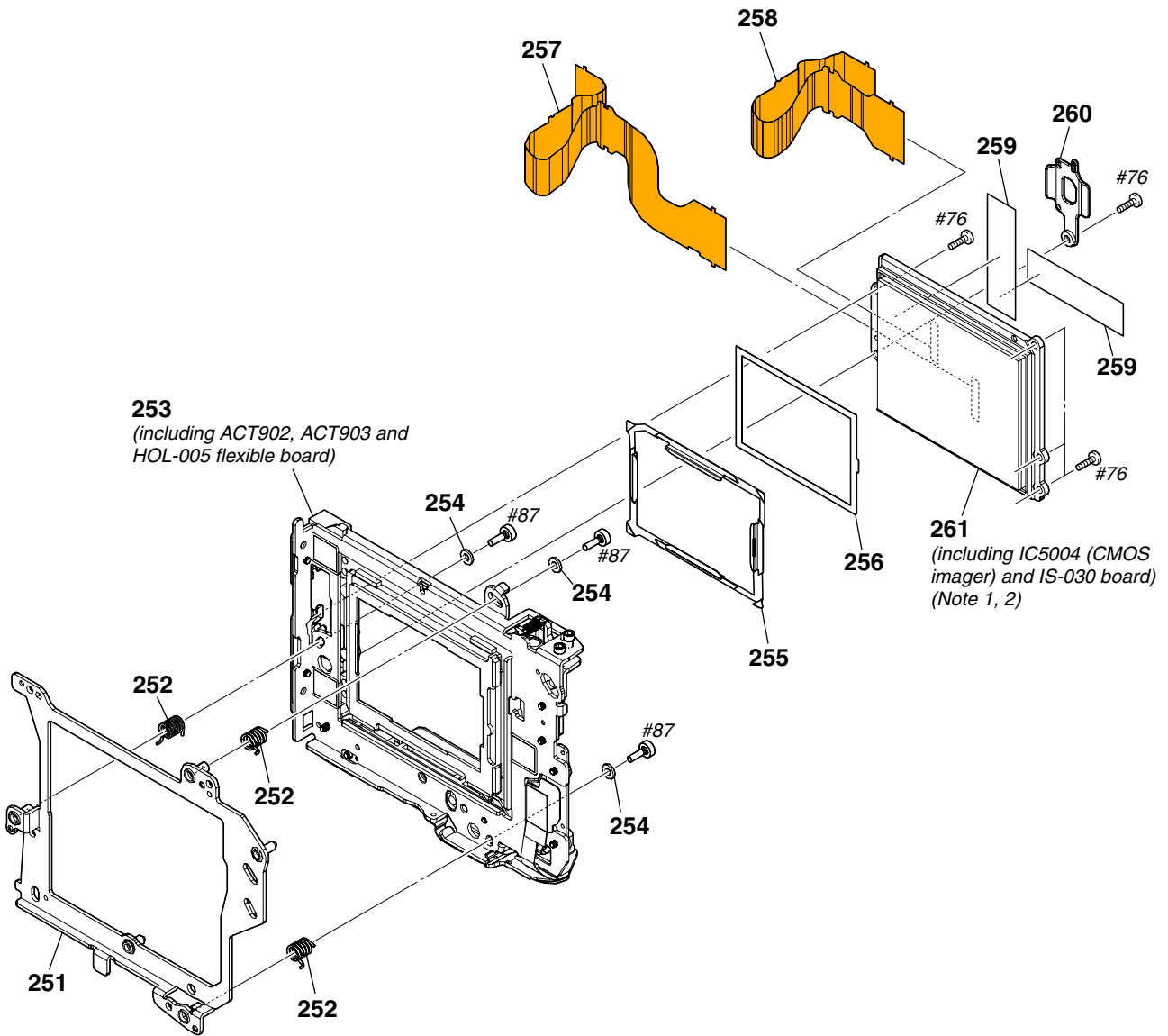
Ref. No.	Part No.	Description
201	4-110-769-01	CV BOTTOM RUBBER
202	4-110-720-01	CV MAIN CAUTION LABEL (US, CND, AEP, UK, E, AUS)
202	4-110-988-01	CV BOTTOM LABEL (HK, KR, CH, J)
* 203	4-110-786-01	BD BACK FRAME
204	1-480-674-11	UNIT (EYE PIECE) (including SE901 (eyepiece sensors) and EYE-008 flexible board)

Ref. No.	Part No.	Description
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#59	3-080-205-21	SCREW, TAPPING, P2 (Silver)
#83	3-080-204-41	SCREW, TAPPING, P2 (Black)
#94	2-515-483-31	SCREW (M1.7), LOCK ACE, P2 (Black)
#109	2-515-483-21	SCREW (M1.7), LOCK ACE, 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 4-3 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 "2-9. CLEANING PROCEDURE OF OLPF" on page 2-16 for method of cleaning the OLPF.

Note 2: OLPFの清掃方法は2-16ページの「2-9. CLEANING PROCEDURE OF OLPF」を参照してください。

Ref. No.	Part No.	Description
251	X-2319-509-1	CHASSIS ASSY UNIT
252	4-110-892-01	SPRING, ADJUSTMENT AO
253	A-1566-052-A	SLIDER UNIT (SERVICE) (including ACT902, ACT903 and HOL-005 flexible board)
254	3-292-847-01	WASHER
* 255	4-110-890-01	PLATE, LPF RETAINER
* 256	4-110-889-01	SHEET, LPF MASK
257	1-875-717-11	FP-893 FLEXIBLE BOARD

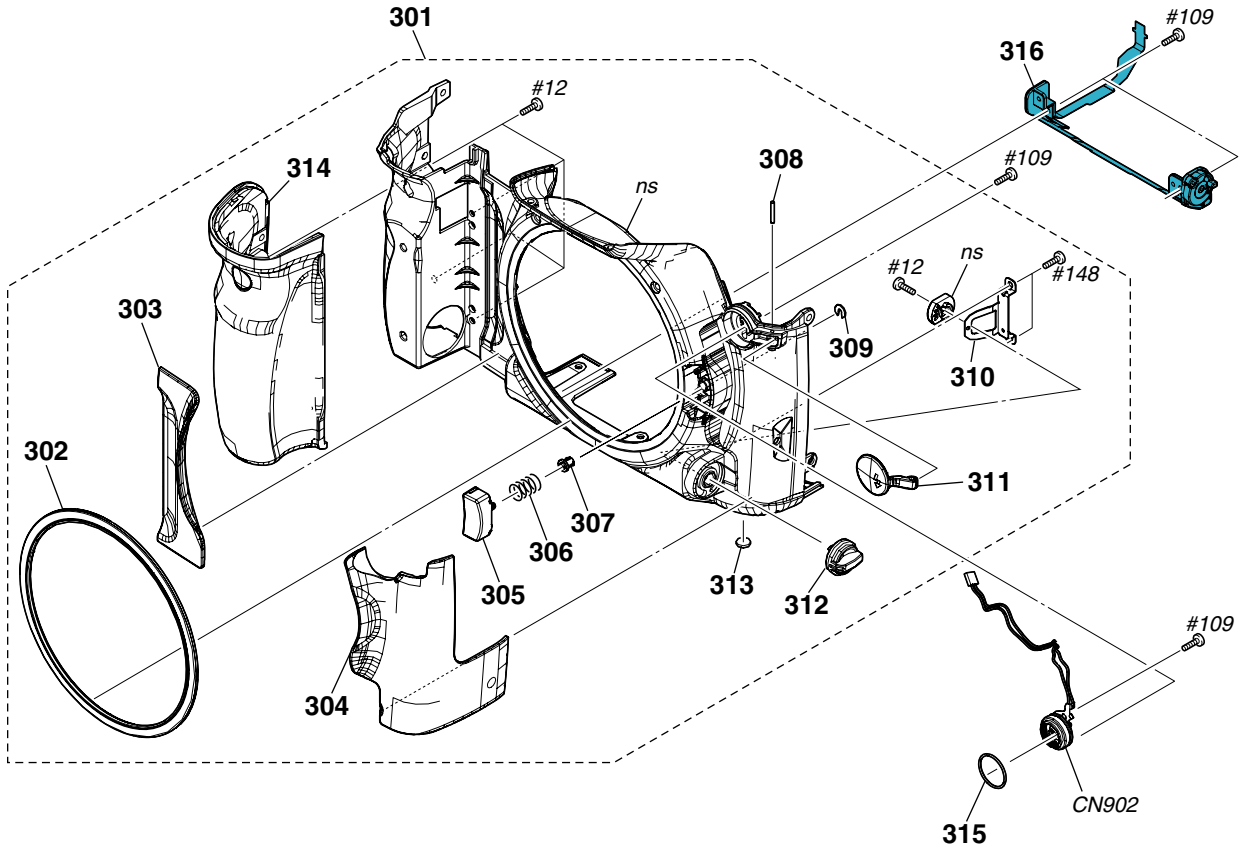
Ref. No.	Part No.	Description
258	1-875-718-11	FP-894 FLEXIBLE BOARD
259	3-274-513-01	TAPE (ASCD)
* 260	4-110-891-01	PLATE FPC GUIDE
261	A-1557-766-A	UNIT, OMEGA (including IC5004 (CMOS imager) and IS-030 board) (Note 1, 2)
#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)
#87	2-689-328-01	SCREW, CCD AO ADJUSTMENT (Black)

5. REPAIR PARTS LIST

HARDWARE LIST

5-1-7. FRONT COVER SECTION

ns: not supplied



Ref. No.	Part No.	Description
301	X-2319-519-1	CV FRONT COVER ASSY
* 302	4-110-991-01	CV DECORATION RING
303	X-2319-510-1	CV BODY RUBBER (R) ASSY
304	X-2319-518-1	CV BODY RUBBER (L) ASSY
* 305	4-110-899-01	CV LENS LOCK BUTTON
306	3-269-816-01	SPRING, COMPRESSION
* 307	4-110-897-01	CV BUTTON SLEEVE
* 308	4-110-896-01	CV SYNCHRO TERMINAL SHAFT
309	7-624-102-04	STOP RING 1.5, TYPE -E
* 310	4-110-895-01	CV CLICK PLATE SPRING
311	4-110-894-01	CV SYNCHRO TERMINAL COVER

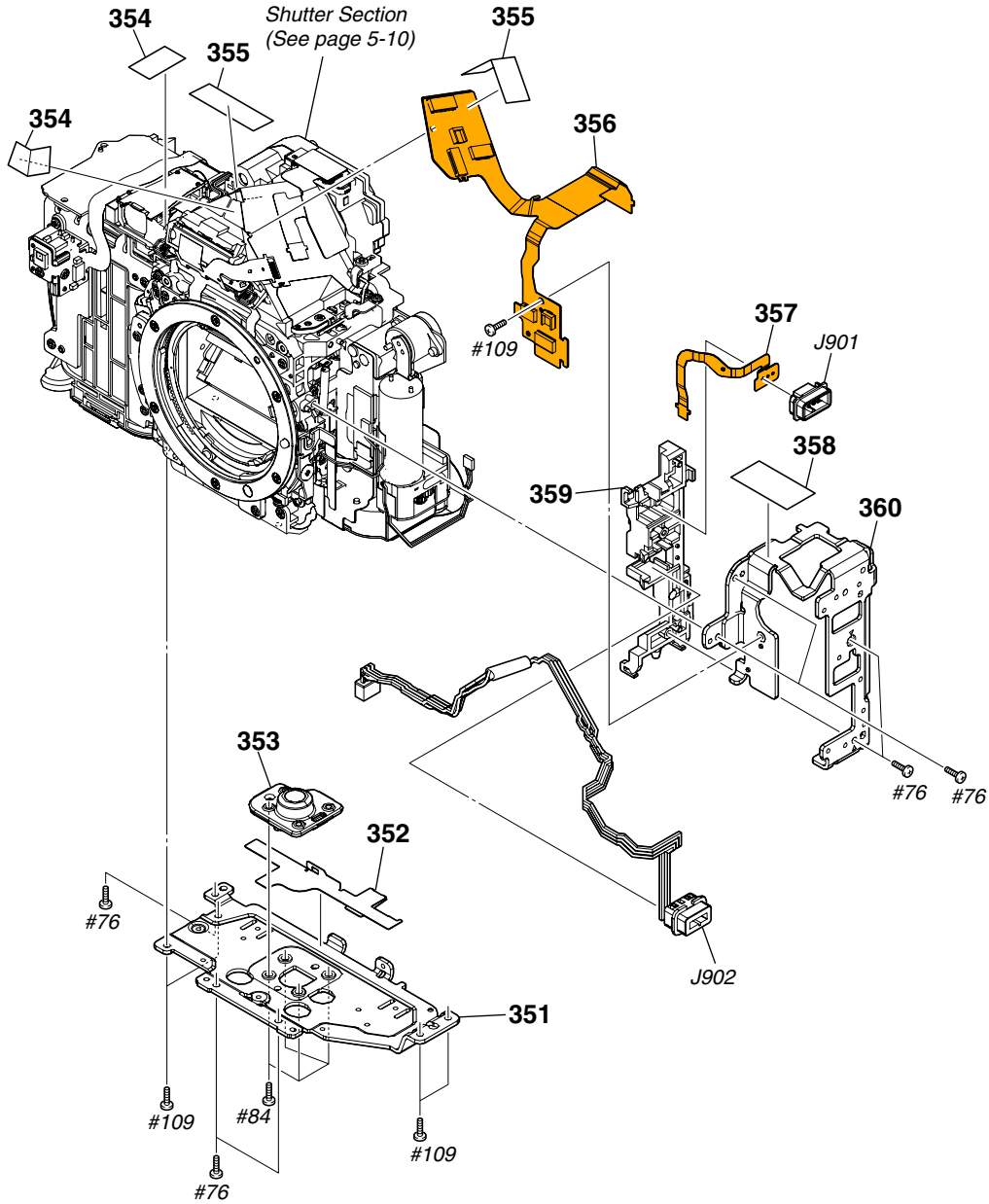
Ref. No.	Part No.	Description
* 312	4-110-898-01	CV MF KNOB
313	4-113-595-01	CV STOP CUSHION
314	X-2319-511-1	CV GRIP ASSY
315	3-269-900-01	O RING, SYNCHRO
316	1-480-661-11	SWITCH BLOCK, CONTROL (FS85100)
CN902	1-480-402-31	TERMINAL UNIT, SYNCHRONISE (FLASH SYNC)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#109	2-515-483-21	SCREW (M1.7), LOCK ACE, P2 (Black)
#148	3-057-082-21	SCREW (M1.7), P2 (Silver)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-8. SIDE FRAME SECTION



• Refer to page 5-1 for mark △.

Ref. No.	Part No.	Description
* 351	4-110-784-01	BD BOTTOM FRAME
* 352	4-110-794-01	BD BOTTOM FRAME SHEET
	3-269-890-01	PLATE, TRIPOD
* 354	4-118-743-01	BD TAPE 0710
355	3-274-513-01	TAPE (ASCD)
356	A-1557-725-A	MA-453 FLEXIBLE BOARD, COMPLETE
	1-875-730-11	FP-898 FLEXIBLE BOARD
* 358	4-110-795-01	BD TAPE 1525

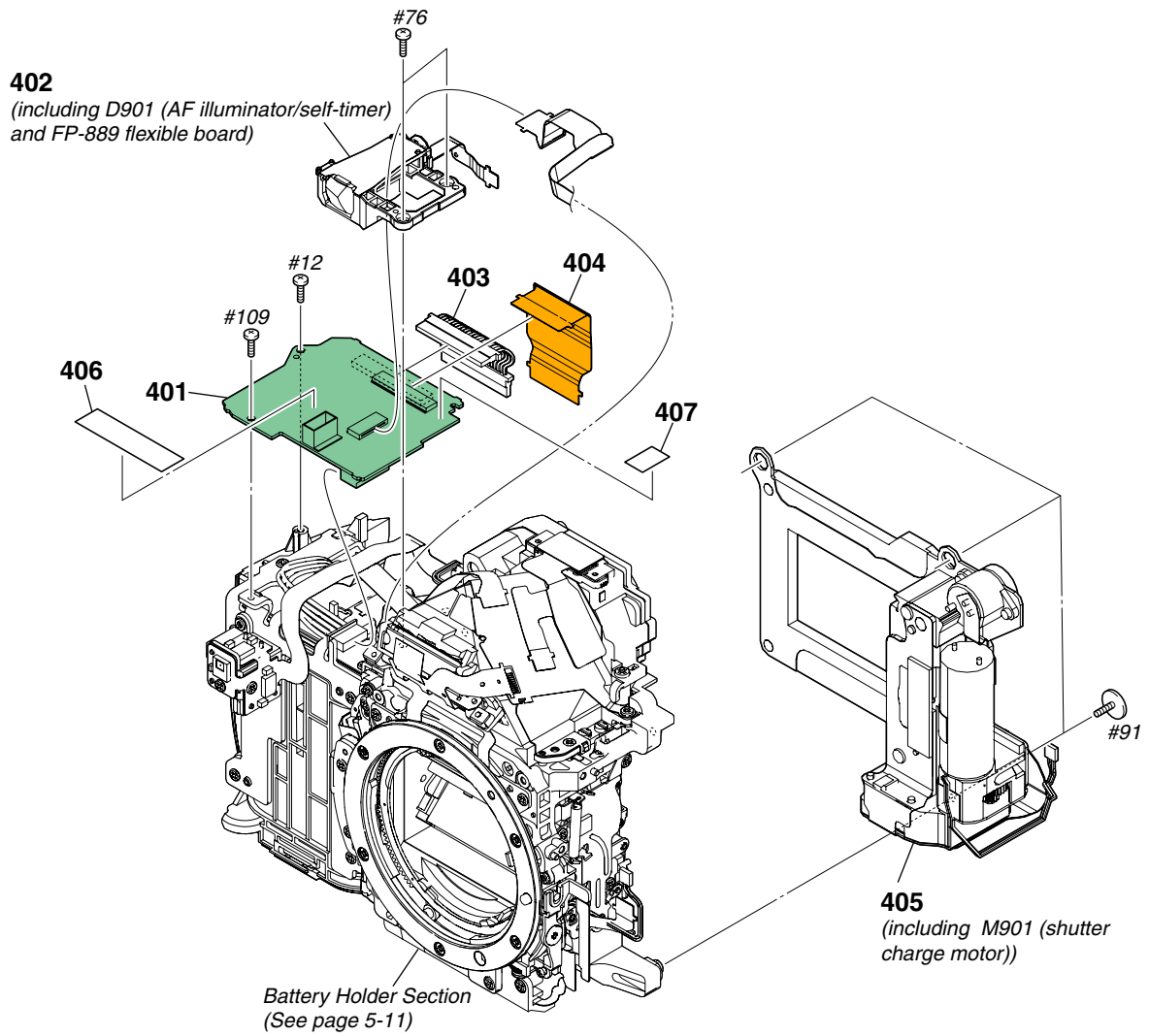
Ref. No.	Part No.	Description
* 359	4-110-787-01	BD JACK HOLDER
* 360	4-110-785-01	BD SIDE FRAME
	J901	1-480-041-11 REMOTE HOLDER (REMOTE)
△ J902	1-821-194-31	JACK, DC (DC IN)
	#76	2-666-551-11 SCREW, TAPPING, P2 (Silver)
	#84	3-072-453-11 O PLATE +P2 MAIN M2EG GRIP (Silver)
	#109	2-515-483-21 SCREW (M1.7), LOCK ACE, P2 (Black)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-9. SHUTTER SECTION



Ref. No.	Part No.	Description
401	A-1557-726-A	DD-299 BOARD, COMPLETE
402	A-1557-722-A	AF ASSIST LIGHT BLOCK ASSY (including D901 (AF illuminator/self-timer) and FP-889 flexible board)
403	1-966-182-11	HARNESS (DA-108)
404	1-875-721-11	FP-895 FLEXIBLE BOARD
405	1-788-739-11	SHUTTER (including M901 (shutter charge motor))

Ref. No.	Part No.	Description
406	3-274-513-01	TAPE (ASCD)
* 407	4-118-743-01	BD TAPE 0710
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)
#91	2-695-434-11	SCREW (T1.7), HEAD PAN TAPPING (Silver)
#109	2-515-483-21	SCREW (M1.7), LOCK ACE, P2 (Black)

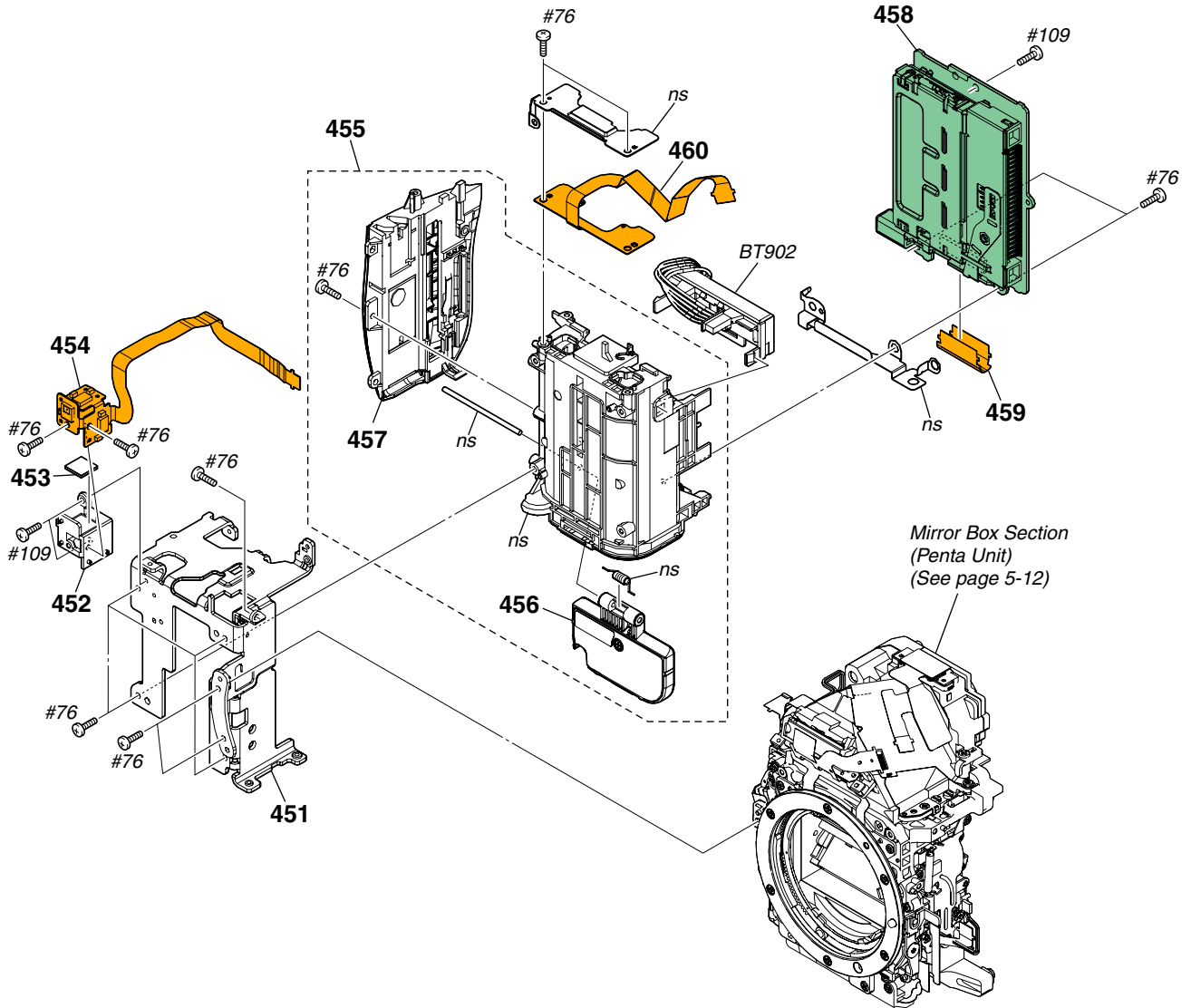
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-10. BATTERY HOLDER SECTION

ns: not supplied



• Refer to page 5-1 for mark Δ .

Ref. No.	Part No.	Description
451	X-2319-496-1	BD FRONT FRAME ASSY
* 452	4-110-790-01	BD GYRO BASE
* 453	4-110-793-01	BD JY CUSHION
454	A-1557-728-A	GY-009 FLEXIBLE BOARD, COMPLETE
455	X-2319-521-2	BD BATTERY HOLDER ASSY
456	X-2179-804-1	LID ASSY, BATTERY CASE
457	X-2320-626-2	MEDIA LID HOLDER ASSY (SERVICE)

Ref. No.	Part No.	Description
458	A-1557-727-A	MM-079 BOARD, COMPLETE
459	1-875-714-11	FP-890 FLEXIBLE BOARD
460	1-875-726-11	FP-896 FLEXIBLE BOARD
Δ BT902	1-780-515-11	TERMINAL BOARD, BATTERY
#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)
#109	2-515-483-21	SCREW (M1.7), LOCK ACE, P2 (Black)

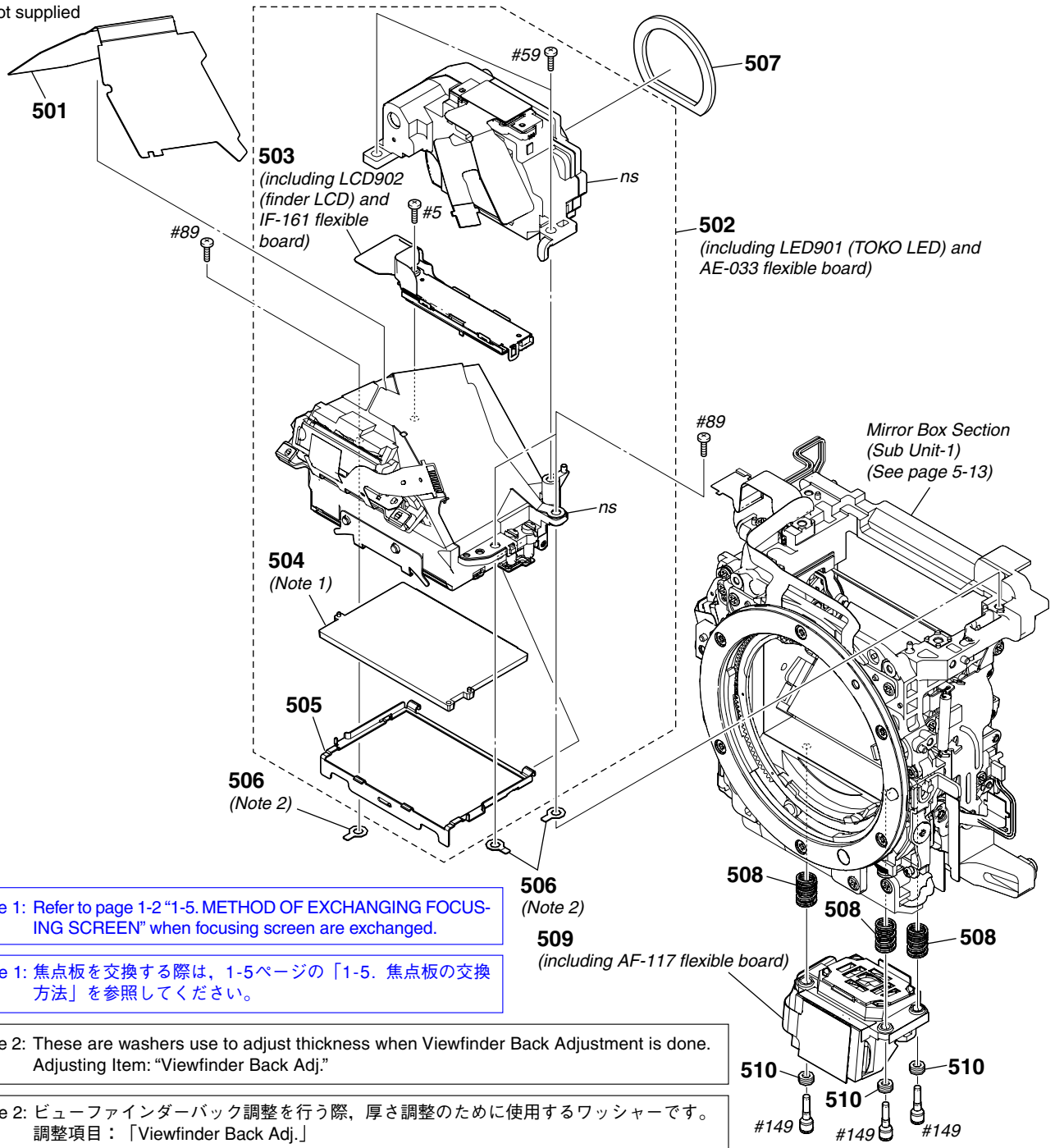
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-11. MIRROR BOX SECTION (PENTA UNIT)

ns: not supplied



Note 1: Refer to page 1-2 "1-5. METHOD OF EXCHANGING FOCUSING SCREEN" when focusing screen are exchanged.

Note 1: 焦点板を交換する際は、1-5ページの「1-5. 焦点板の交換方法」を参照してください。

Note 2: These are washers 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ワッシャーです。調整項目：「Viewfinder Back Adj.」

Ref. No.	Part No.	Description
501	4-110-797-01	BD PENTA INSULATION SHEET
502	A-1556-575-A	VO PENTA UNIT (including LED901 (TOKO LED) and AE-033 flexible board)
503	A-1556-621-A	VM IF LCD UNIT (including LCD902 (finder LCD) and IF-161 flexible board)
504	4-105-064-01	VO FOCUSING SCREEN (Note 1)
505	4-109-421-01	VM FOCUSING SCREEN HOLDER
* 506	4-109-527-01	VM VB WASHER (T=0.03 mm) (Note 2)
* 506	4-109-527-11	VM VB WASHER (T=0.05 mm) (Note 2)
* 506	4-109-527-21	VM VB WASHER (T=0.1 mm) (Note 2)
* 506	4-109-527-31	VM VB WASHER (T=0.15 mm) (Note 2)

Ref. No.	Part No.	Description
* 506	4-109-527-41	VM VB WASHER (T=0.2 mm) (Note 2)
507	4-110-796-01	BD G3 HOLDER CUSHION
508	3-270-085-01	ADJUSTMENT (SP), S
509	A-1357-328-A	ALX-8510 (AF module) (including AF-117 flexible board)
510	2-688-865-01	WASHER, S ADJUSTMENT
#5	3-080-204-01	SCREW, TAPPING, P2 (Black)
#59	3-080-205-21	SCREW, TAPPING, P2 (Silver)
#89	2-695-575-01	SCREW (T2), +P1 PAN TAPPING (Silver)
#149	4-115-505-01	S ADJUSTMENT SCREW (8510) (Silver)

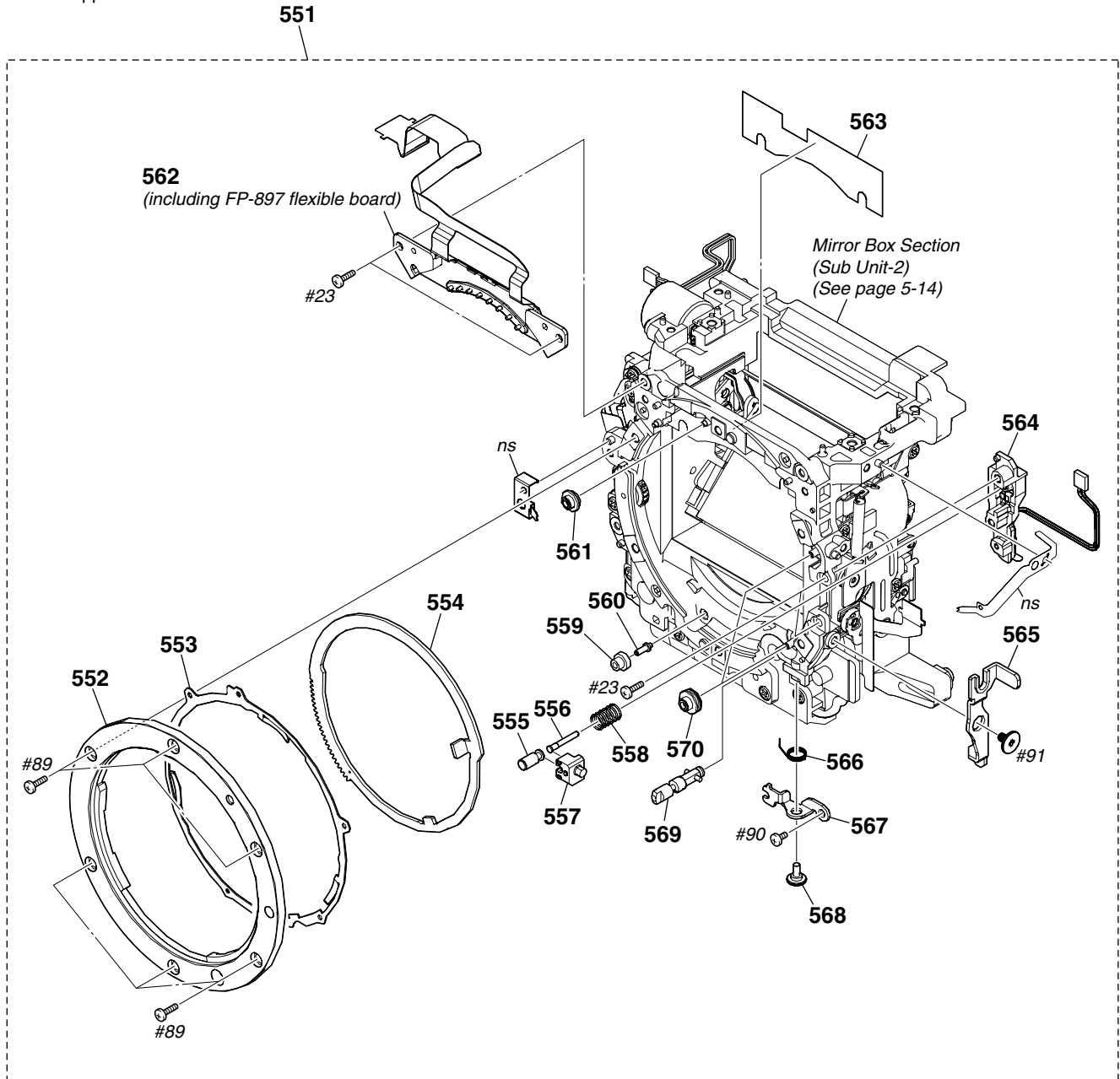
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

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

ns: not supplied



Ref. No.	Part No.	Description
551	A-1565-977-A	MIRROR BOX SUB UNIT (SERVICE)
552	4-117-659-01	MB A MOUNT (851)
553	3-268-950-01	RING (SP)
* 554	4-109-314-01	AP IRIS RING
555	3-268-943-01	PIN, LENS LOCK
556	3-268-956-01	PIN, LENS LOCK GUIDE
557	3-268-944-01	HOLDER, LENS LOCK PIN
558	3-268-945-01	SP, LENS LOCK
559	3-277-916-01	ROLLER (C), RING
560	3-268-951-01	SHAFT, RING ROLLER (C)
* 561	4-109-316-01	AP RING ROLLER B
562	A-1556-573-A	MB BL CONTACT UNIT (including FP-897 flexible board)

Ref. No.	Part No.	Description
* 563	4-109-531-01	MB BL PROTECT SHEET
564	A-1556-571-A	MB SLLK CONTACT PIECE UNIT
565	3-268-942-01	LEVER, COUPLER JOINT
566	3-268-941-01	SP, COUPLER LEVER TENSION
567	3-268-940-01	LEVER, COUPLER
568	2-689-289-01	SHAFT, COUPLER LEVER
569	X-2179-722-1	AF COUPLER ASSY
* 570	4-109-315-01	AP RING ROLLER A
#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)

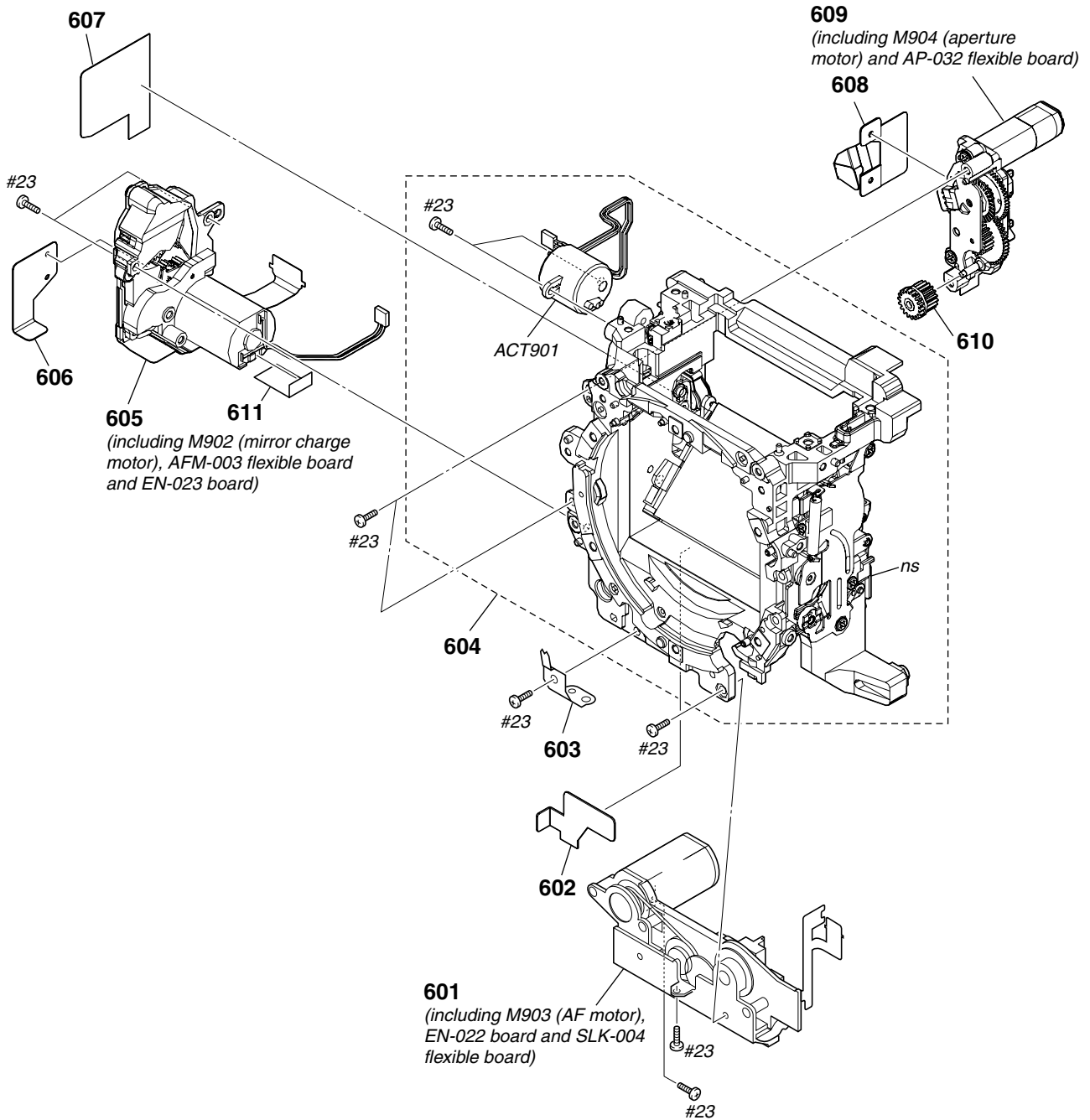
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-13. MIRROR BOX SECTION (SUB UNIT-2)

ns: not supplied



Ref. No.	Part No.	Description
601	A-1556-576-A	AF DRIVING UNIT (including M903 (AF motor), EN-022 board and SLK-004 flexible board)
* 602	4-109-320-01	MB MOTOR HARNESS SHEET (A)
* 603	4-109-319-01	AF GND PLATE
604	A-1556-572-B	MB MIRROR BOX SUB UNIT
605	A-1556-574-A	MB MIRROR CHARGE MOTOR UNIT (including M902 (mirror charge motor), AFM-003 flexible board and EN-023 board)
* 606	4-109-322-01	MB FLEXIBLE PROTECTION SHEET

Ref. No.	Part No.	Description
* 607	4-109-323-01	MB IS-FLEXIBLE PROTECTION SHEET
* 608	4-109-321-02	AP FLEXIBLE PROTECTION SHEET
609	A-1556-577-A	AP APERTURE UNIT (including M904 (aperture motor) and AP-032 flexible board)
* 610	4-109-317-01	AP IRIS JOINT GEAR
* 611	4-118-743-01	BD TAPE 0710
ACT901	1-480-716-11	ACTUATOR
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)

Electrical parts list of the AM-015 and DD-299 boards are not shown.
Pages from 5-15 to 5-25 are not shown.

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	A-1557-728-A	GY-009 FLEXIBLE BOARD, COMPLETE *****
		< CAPACITOR >
C5701	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C5702	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C5703	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C5704	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C5705	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V
		< IC >
IC5701	6-600-163-01	IC RS-770
		< SENSOR >
SE5701	1-480-049-21	SENSOR, ANGULAR VELOCITY (PITCH)
SE5702	1-480-049-21	SENSOR, ANGULAR VELOCITY (YAW)
	A-1557-766-A	UNIT, OMEGA (Note) (Not supplied) IS-030 BOARD, COMPLETE *****
		(IS-030 complete board and all mounted parts (including IC5004 (CMOS imager)) are not supplied, but they are included in OMEGA unit.)
	A-1557-725-A	MA-453 FLEXIBLE BOARD, COMPLETE *****
		< CAPACITOR >
C5601	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V
		< CONNECTOR >
* CN5502	1-817-698-81	CONNECTOR, FPC (ZIF) 21P
CN5503	1-816-646-61	FFC/FPC CONNECTOR (LIF) 16P
* CN5504	1-816-644-51	FFC/FPC CONNECTOR (LIF) 12P
* CN5505	1-820-332-11	HOUSING, CONNECTOR 2P
* CN5601	1-820-332-11	HOUSING, CONNECTOR 2P
CN5602	1-816-654-61	FFC/FPC CONNECTOR (LIF) 6P
* CN5603	1-816-643-51	FFC/FPC CONNECTOR (LIF) 10P
		< DIODE >
D5601	8-719-078-81	DIODE DF5A6.8FU (TE85R)
* D5602	6-600-647-01	BCR08AS-12A-B11H
		< TRANSISTOR >
* Q5603	6-550-010-01	TRANSISTOR EMD3T2R
		< RESISTOR >
R5601	1-216-799-11	METAL CHIP 15 5% 1/10W
R5602	1-216-821-11	METAL CHIP 1K 5% 1/10W
	A-1557-727-A	MM-079 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

Ref. No.	Part No.	Description
* C5205	1-112-746-11	CERAMIC CHIP 4.7uF 10% 6.3V
* C5206	1-112-746-11	CERAMIC CHIP 4.7uF 10% 6.3V
		< CONNECTOR >
* CN5201	1-821-501-11	CONNECTOR, FPC (ZIF) 51P
CN5202	1-818-139-11	PIN, CONNECTOR (CF CARD) (CompactFlash/Microdrive)
* CN5203	1-821-457-11	CONNECTOR, CARD (COMPACT FLASH) (CF CARD EJECT LEVER)
		< RESISTOR >
R5204	1-218-933-11	METAL CHIP 22 5% 1/16W
R5206	1-218-933-11	METAL CHIP 22 5% 1/16W
R5210	1-218-940-11	METAL CHIP 82 5% 1/16W
R5214	1-218-935-11	METAL CHIP 33 5% 1/16W
R5216	1-218-940-11	METAL CHIP 82 5% 1/16W
R5217	1-218-935-11	METAL CHIP 33 5% 1/16W
R5218	1-218-940-11	METAL CHIP 82 5% 1/16W
R5219	1-218-940-11	METAL CHIP 82 5% 1/16W
R5223	1-218-965-11	METAL CHIP 10K 5% 1/16W
R5224	1-218-965-11	METAL CHIP 10K 5% 1/16W
R5225	1-218-965-11	METAL CHIP 10K 5% 1/16W
R5226	1-218-961-11	METAL CHIP 4.7K 5% 1/16W
R5227	1-218-962-11	METAL CHIP 5.6K 5% 1/16W
R5228	1-218-965-11	METAL CHIP 10K 5% 1/16W
R5229	1-218-965-11	METAL CHIP 10K 5% 1/16W
		< COMPOSITION CIRCUIT BLOCK >
RB5201	1-242-963-21	RES, NETWORK 33 (1005X4)
RB5202	1-242-963-21	RES, NETWORK 33 (1005X4)
RB5203	1-242-963-21	RES, NETWORK 33 (1005X4)
RB5204	1-242-963-21	RES, NETWORK 33 (1005X4)
RB5205	1-242-963-21	RES, NETWORK 33 (1005X4)
		< THERMISTOR >
TH5201	1-804-949-11	THERMISTOR, NTC (SMD)
	A-1557-729-A	TOP-004 FLEXIBLE BOARD, COMPLETE *****
		< BUZZER >
BZ7201	1-825-579-11	BUZZER, PIEZOELECTRIC
		< CAPACITOR >
C7301	1-100-566-91	CERAMIC CHIP 0.1uF 10% 25V
		< CONNECTOR >
CN7201	1-816-654-61	FFC/FPC CONNECTOR (LIF) 6P
CN7202	1-816-646-61	FFC/FPC CONNECTOR (LIF) 16P
CN7203	1-816-654-61	FFC/FPC CONNECTOR (LIF) 6P
		< DIODE >
D7201	8-719-069-29	DIODE RB520S-30FJTE61
D7202	8-719-074-08	DIODE MA4ZD03001S0
D7205	8-719-074-08	DIODE MA4ZD03001S0

Note: Be sure to read "Precautions for Replacement of Imager" on page 4-3 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。

Ref. No.	Part No.	Description
D7206	8-719-074-08	DIODE MA4ZD03001S0
D7211	8-719-078-81	DIODE DF5A6.8FU (TE85R)
D7212	8-719-069-29	DIODE RB520S-30FJTE61
D7301	6-600-623-01	DIODE SML-A12WTT86J (DISPLAY PANEL BACKLIGHT)

< FERRITE BEAD >

FB7201	1-414-760-21	INDUCTOR, FERRITE BEAD
FB7202	1-414-760-21	INDUCTOR, FERRITE BEAD
FB7203	1-414-760-21	INDUCTOR, FERRITE BEAD
FB7204	1-414-760-21	INDUCTOR, FERRITE BEAD

< IC >

* IC7301	6-713-079-01	IC BU9795KV-E2
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< TRANSISTOR >

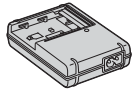
* Q7201	6-551-861-01	TRANSISTOR 2SC4505T100
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< RESISTOR >

R7201	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7202	1-216-841-11	METAL CHIP	47K	5%	1/10W
R7305	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R7306	1-216-864-11	SHORT CHIP	0		

Checking supplied accessories.

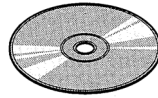
Note: This item is supplied with the unit as an accessory, but is not prepared as a service part.



Battery Charger
BC-VM10
△ 1-479-742-21 (US, CND)
△ 1-479-742-41
(EXCEPT US, CND)



Power Cord
△ 1-555-074-91 (AUS)
△ 1-790-107-61 (US, CND)
△ 1-792-549-41 (J)
△ 1-824-910-71 (AEP, E)
△ 1-827-269-12 (UK, HK)
△ 1-832-121-31 (CH)
△ 1-833-892-21 (KR)



CD-ROM
(Application Software for α camera)
4-110-321-01



Rechargeable Battery Pack
NP-FM500H
(Note)



Conversion 2P Adaptor
△ 1-569-008-12 (E)



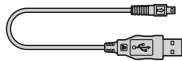
Operating instructions: Read This First
3-877-682-01 (JAPANESE) (J)
3-877-682-11 (ENGLISH) (EXCEPT KR, CH, J)
3-877-682-21 (FRENCH, ITALIAN) (CND, AEP)
3-877-682-31 (SPANISH, PORTUGUESE) (AEP, E)
3-877-682-41 (GERMAN, DUTCH) (AEP)
3-877-682-51 (TRADITIONAL CHINESE, SIMPLIFIED CHINESE)
(E, HK)
3-877-682-61 (RUSSIAN) (AEP)
3-877-682-71 (ARABIC, PERSIAN) (E)
3-877-682-81 (KOREAN) (KR)
3-877-682-91 (SIMPLIFIED CHINESE) (CH)



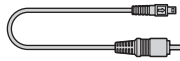
Wireless Remote Commander
(Remote Commander)
RMT-DSLR1
1-480-392-11



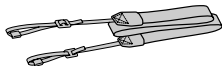
Remote Commander Clip
3-273-459-11



USB Cable
1-834-311-31



Video Cable
1-834-312-11



Shoulder Strap
4-111-307-01

Body Cap Seal
2-894-387-01



Body Cap
2-688-728-02



Accessory Shoe Cap
2-688-767-02



Eyecup
X-2319-492-1

• Refer to page 5-1 for mark △.

DSLR-A900

RMT-DSLR1

SONY[®]

SERVICE MANUAL

Ver. 1.1 2009.01

LEVEL 2

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Japanese Model

SUPPLEMENT-1

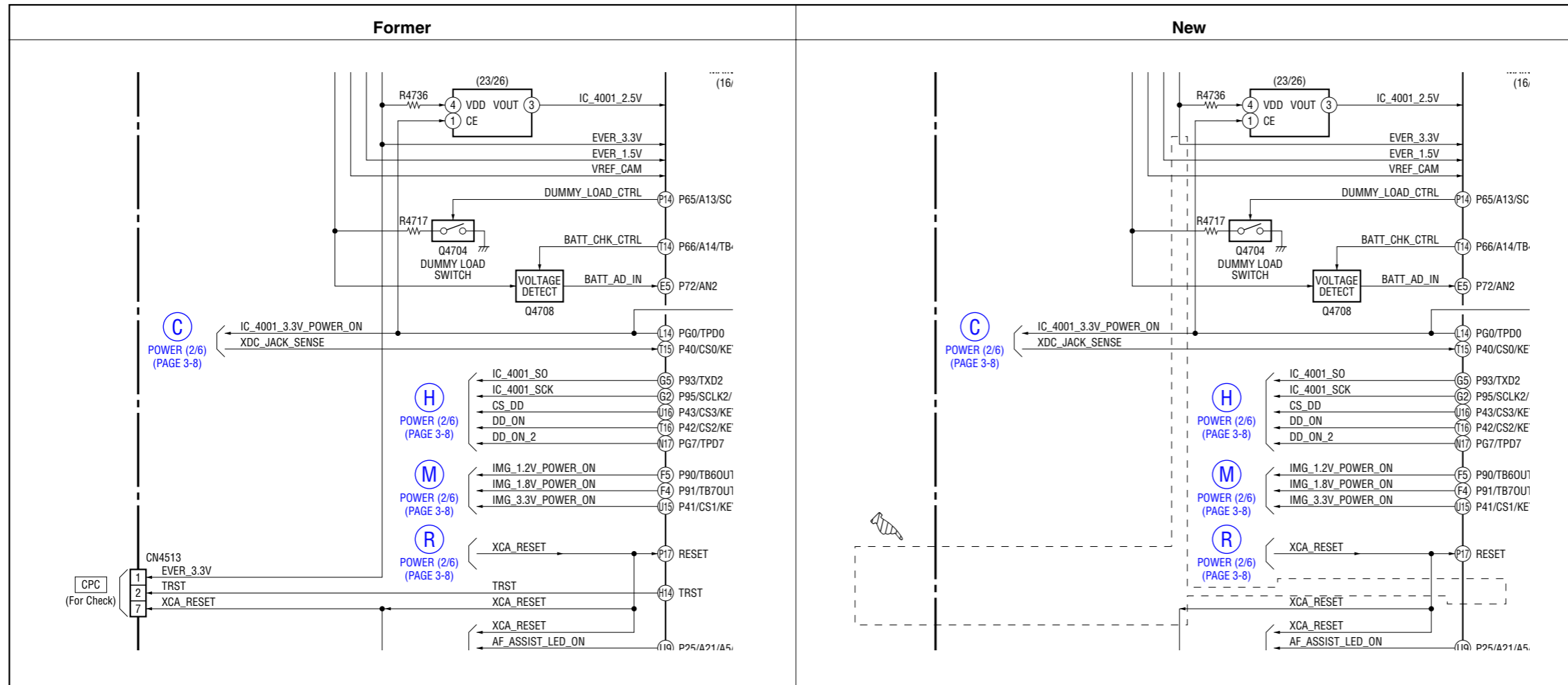
File this supplement with the service manual.
(DI08-309)

- Change of Repair Parts

3. BLOCK DIAGRAMS

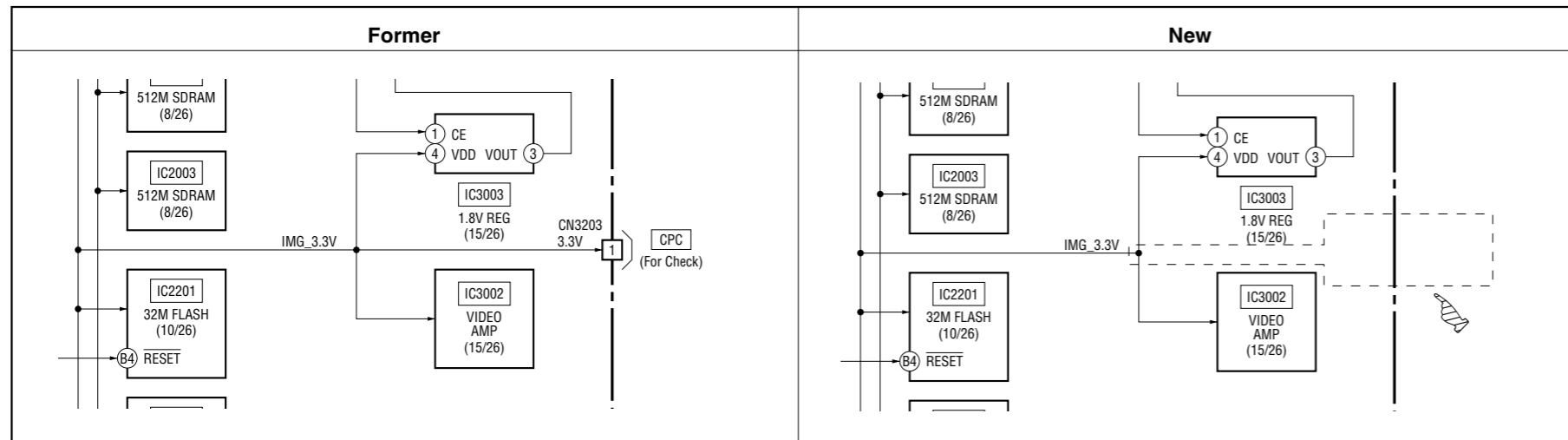
3-9. POWER BLOCK DIAGRAM (3/6)

(Service manual page 3-9)



3-11. POWER BLOCK DIAGRAM (5/6)

(Service manual page 3-11)



 : Points changed portion.

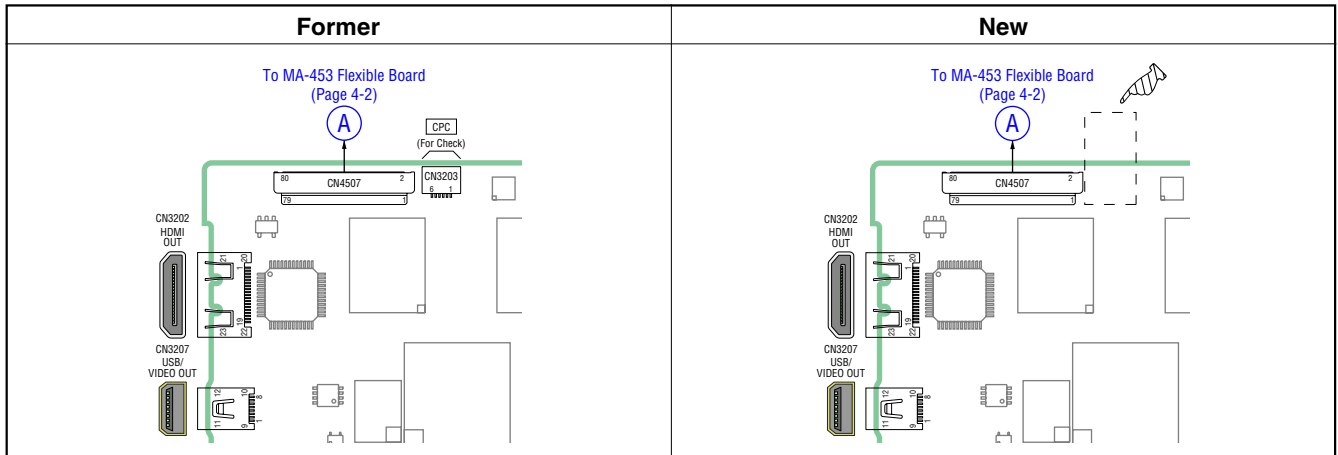
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAMS

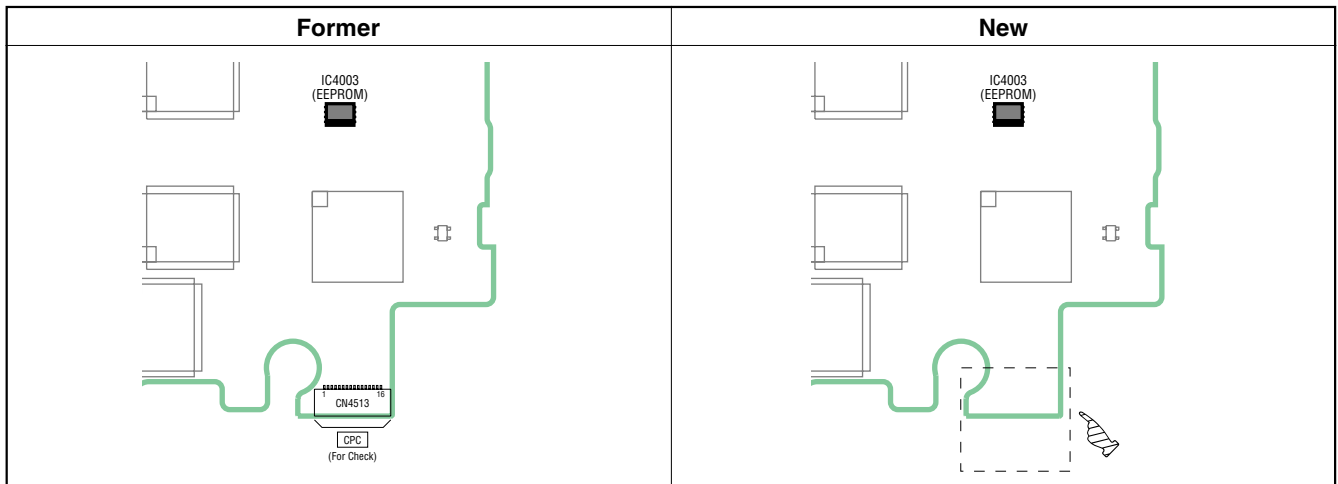
FRAME SCHEMATIC DIAGRAM (1/2)

(Service manual page 4-1)

AM-015 BOARD (SIDE A)



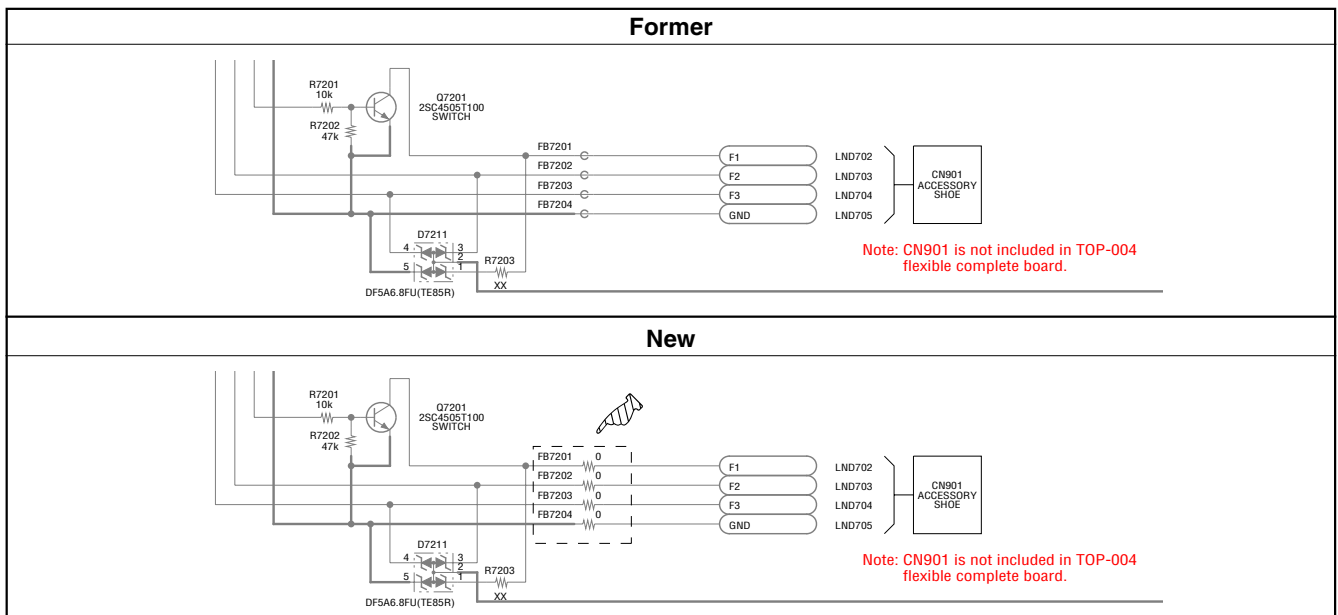
AM-015 BOARD (SIDE B)



4-2. SCHEMATIC DIAGRAMS

TOP-004 FLEXIBLE BOARD (1/2) (BUZZER, ACCESSORY SHOE)

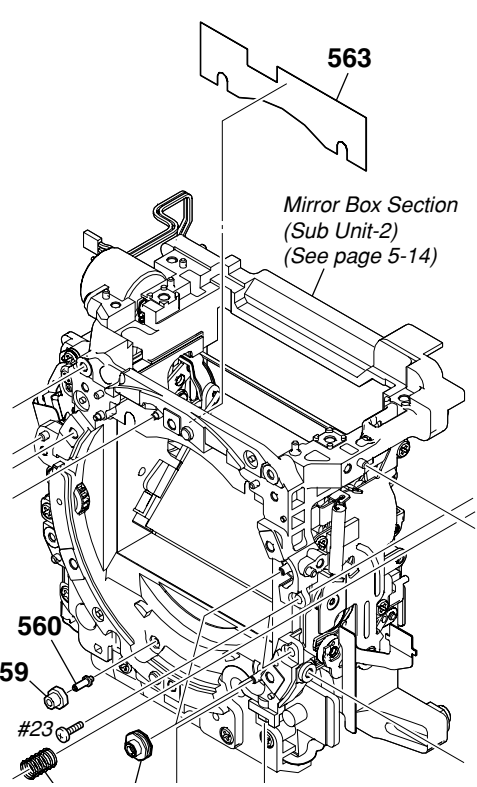
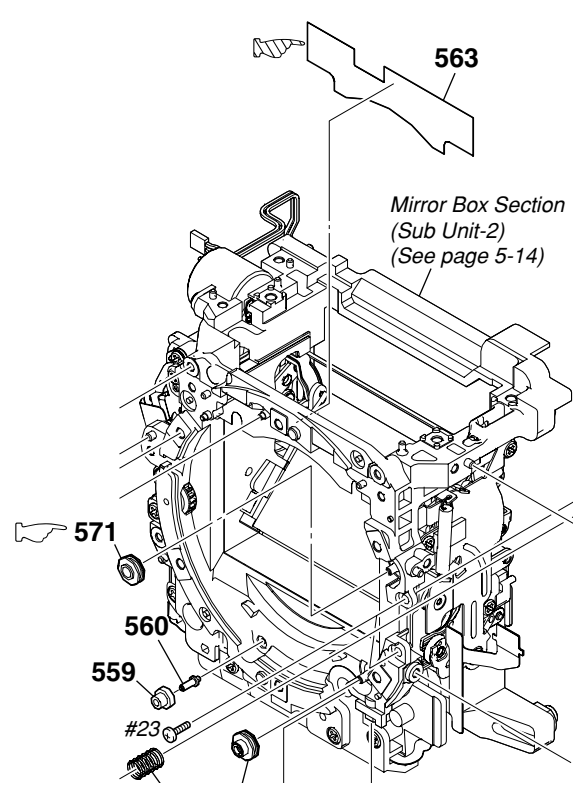
(Service manual page 4-42, Location E-5 to F-8)



-  : Points added portion.
 : Points changed portion.

5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

Page	Former	New
	Ref. No. Part No. Description	Ref. No. Part No. Description
5-5	△*BH4002 1-756-615-51 HOLDER, BATTERY (Note)	△ BH4002 1-756-615-61 HOLDER, BATTERY (Note)
5-13	 <p>Mirror Box Section (Sub Unit-2) (See page 5-14)</p> <p>* 563 4-109-531-01 MB BL PROTECT SHEET</p>	 <p>Mirror Box Section (Sub Unit-2) (See page 5-14)</p> <p>* 563 4-109-531-02 MB BL PROTECT SHEET 571 4-138-838-01 AP RING ROLLER D</p>

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

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

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

Note: Replace the battery holder (BH4002) together when replacing the lithium battery (BT901) on the AM-015 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-015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 (BH4002) 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。

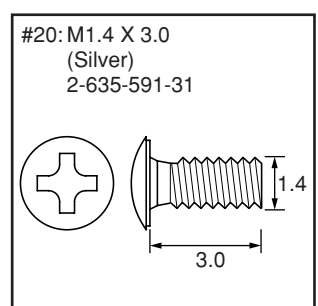
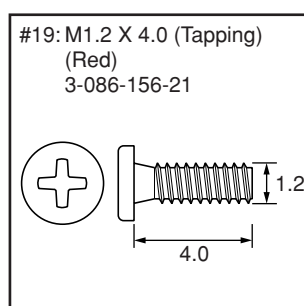
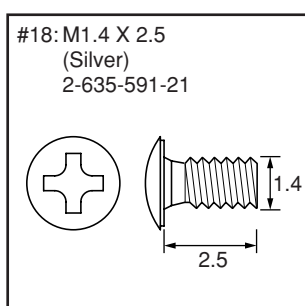
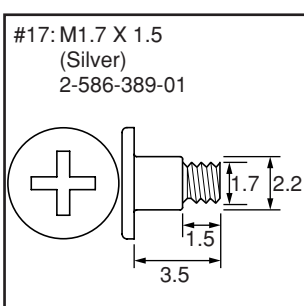
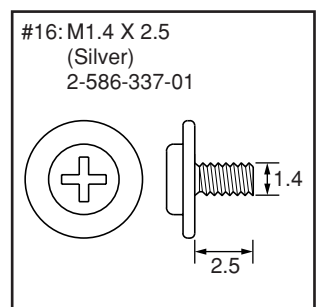
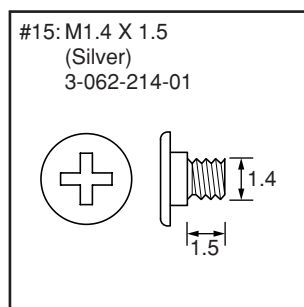
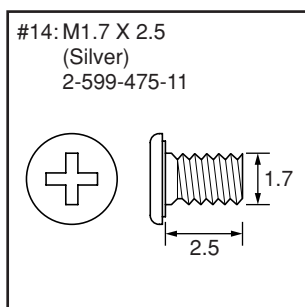
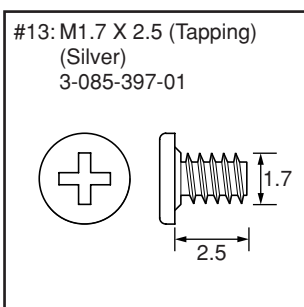
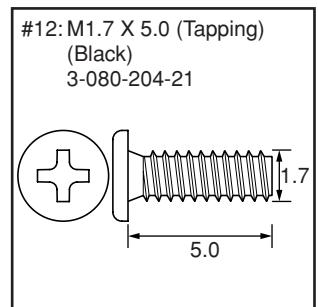
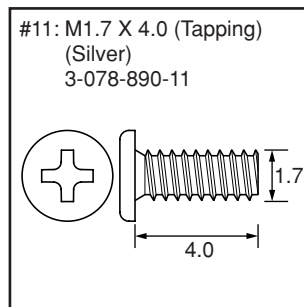
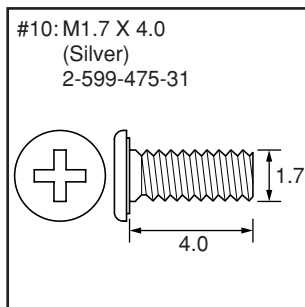
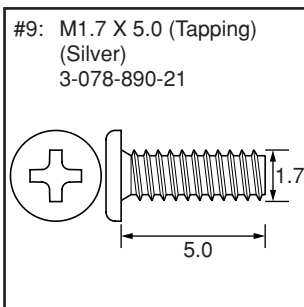
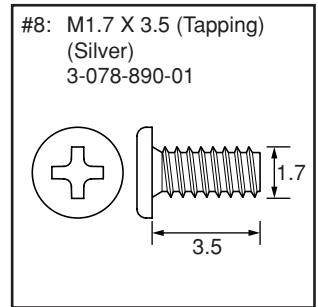
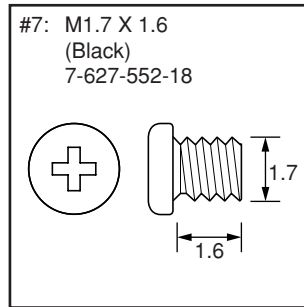
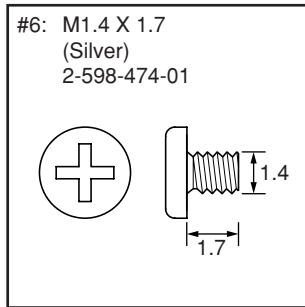
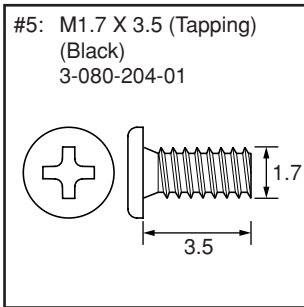
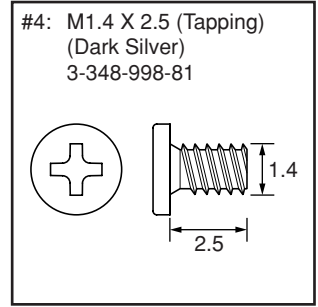
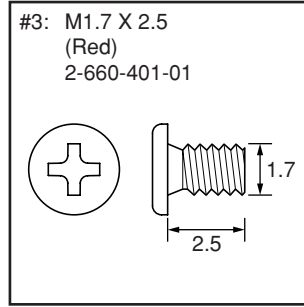
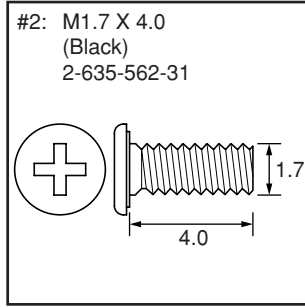
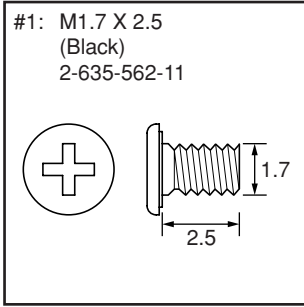
5-2. ELECTRICAL PARTS LIST

Page	Former	New
	Ref. No. Part No. Description	Ref. No. Part No. Description
5-27	<p>TOP-004 Flexible Board</p> <p>< FERRITE BEAD ></p> <p>FB7201 1-414-760-21 INDUCTOR, FERRITE BEAD FB7202 1-414-760-21 INDUCTOR, FERRITE BEAD FB7203 1-414-760-21 INDUCTOR, FERRITE BEAD FB7204 1-414-760-21 INDUCTOR, FERRITE BEAD</p>	<p>TOP-004 Flexible Board</p> <p>< JUMPER RESISTOR ></p> <p>FB7201 1-216-864-11 SHORT CHIP 0 (Note) FB7202 1-216-864-11 SHORT CHIP 0 (Note) FB7203 1-216-864-11 SHORT CHIP 0 (Note) FB7204 1-216-864-11 SHORT CHIP 0 (Note)</p>

Note: Short chips are mounted to the location where FB7201 to FB7204 are printed.

Note: FB7201～FB7204には短路がマウントされています。

HARDWARE LIST (1/8)



HARDWARE LIST (2/8)

#21: M1.4 X 3.0
(Black)
2-662-396-21

#22: M1.7 X 5.0 (Tapping)
(Silver)
3-083-261-01

#23: M1.7 X 4.0 (Tapping)
(Black)
3-080-204-11

#24: B1.7 X 5.5 (Tapping)
(Black)
4-679-805-11

#25: M1.7 X 3.0
(Black)
2-635-562-21

#26: M1.4 X 2.0
(Silver)
2-635-591-11

#27: M1.4 X 2.0
(Black)
2-662-396-11

#28: M1.4 X 4.0 (Tapping)
(Silver)
3-348-998-61

#29: M1.4 X 2.5
(Black)
2-662-396-01

#30: M1.2 X 3.5 (Tapping)
(White)
3-086-156-11

#31: M3.0 X 4.0
(Silver)
2-102-434-01

#32: M2.0 X 4.5 (Tapping)
(Silver)
2-102-498-01

#33: M3.0 X 6.0
(Silver)
3-077-331-21

#34: M3.0 X 8.0
(Black)
3-077-331-41

#35: M4.0 X 6.0 (Tapping)
(Silver)
3-975-291-02

#36: M3.0 X 6.0
(Silver)
4-886-821-11

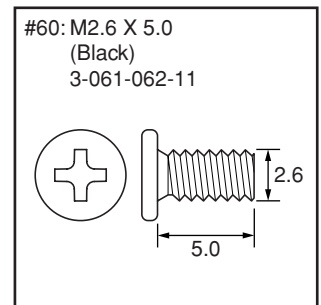
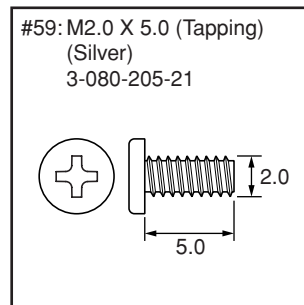
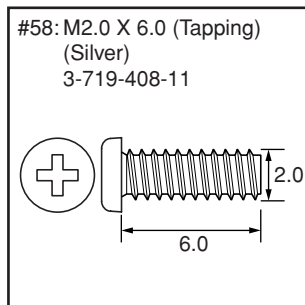
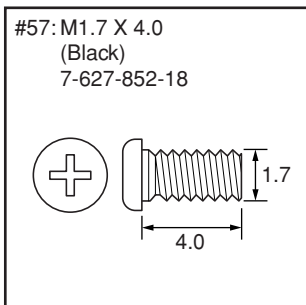
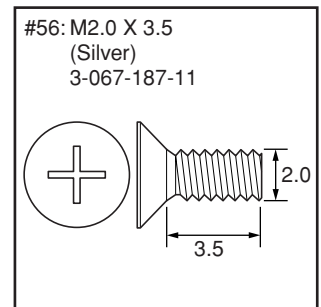
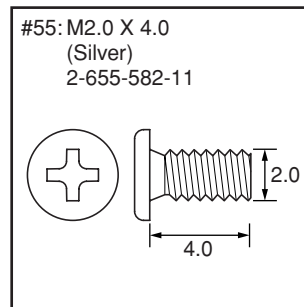
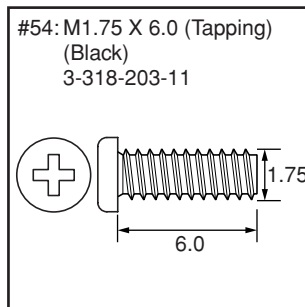
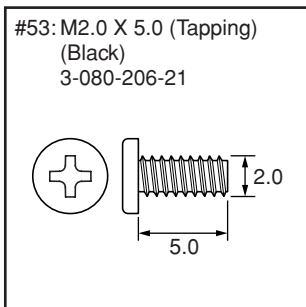
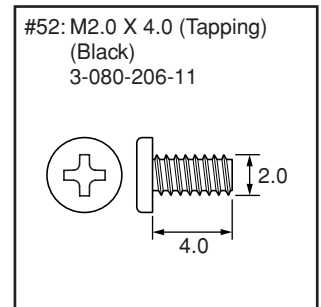
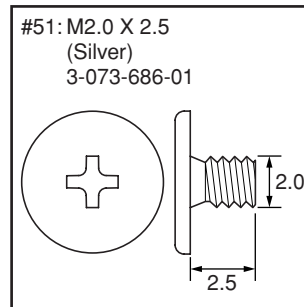
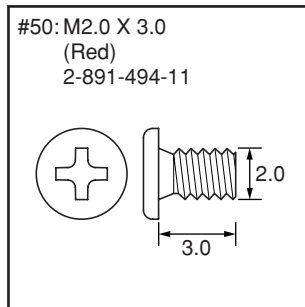
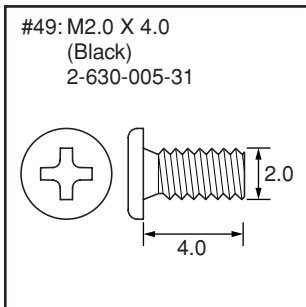
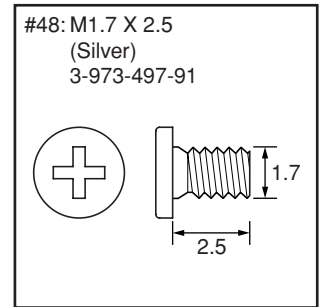
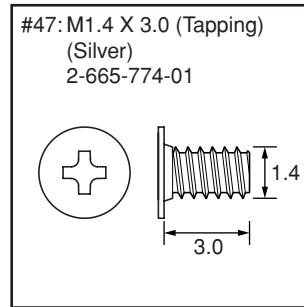
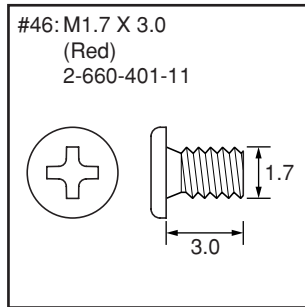
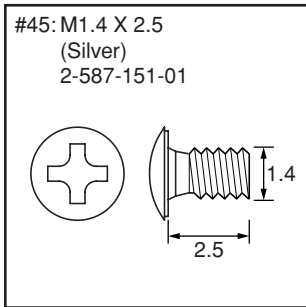
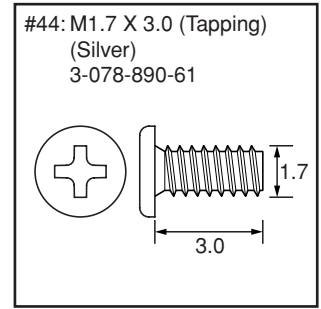
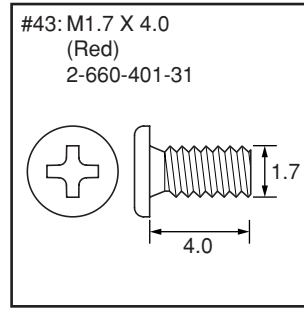
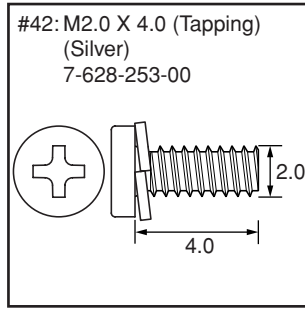
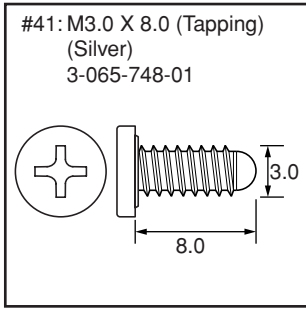
#37: M2.0 X 6.0 (Tapping)
(Black)
3-080-206-31

#38: M3.0 X 20.0 (Tapping)
(Silver)
7-685-651-79

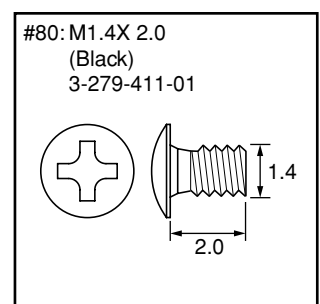
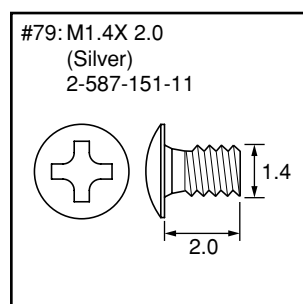
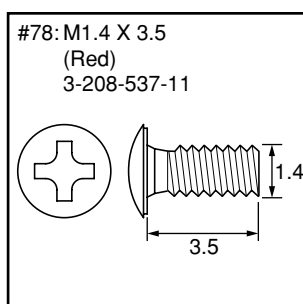
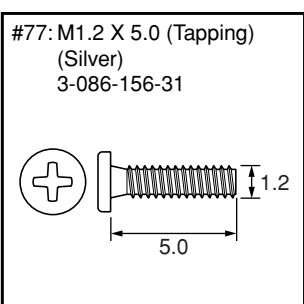
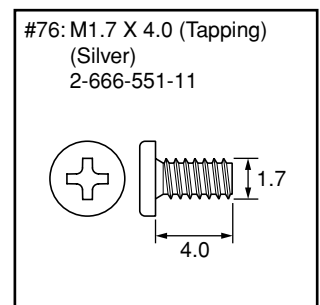
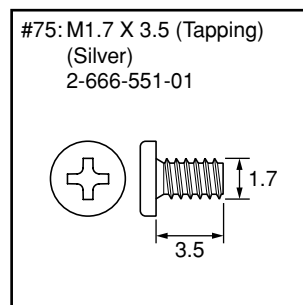
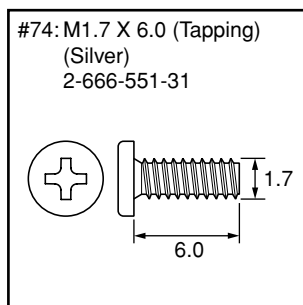
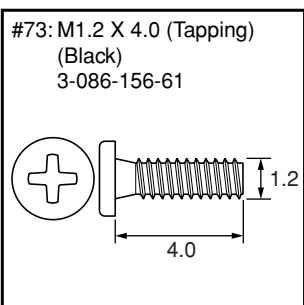
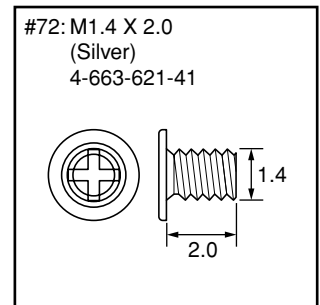
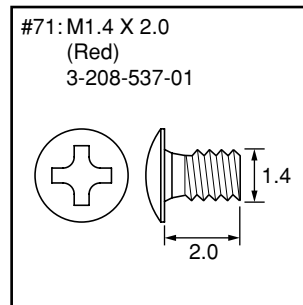
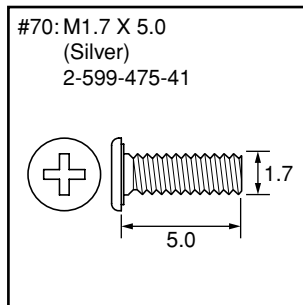
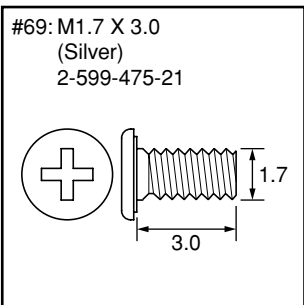
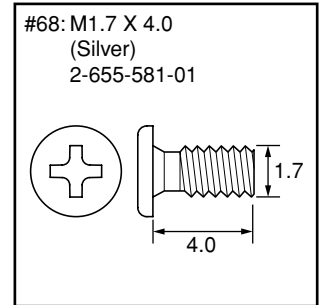
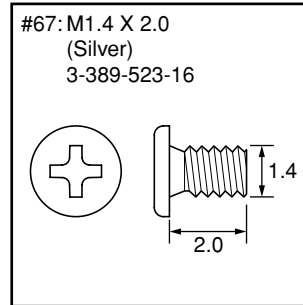
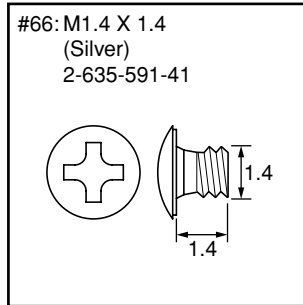
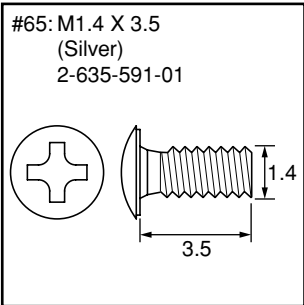
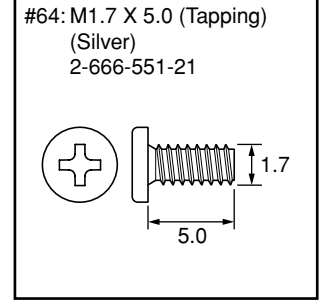
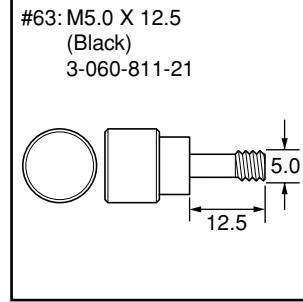
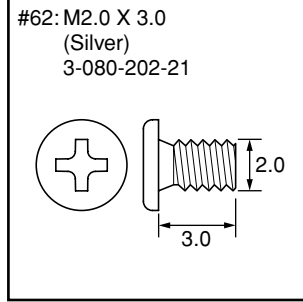
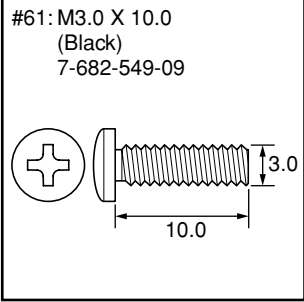
#39: M2.6 X 5.0 (Tapping)
(Black)
7-685-791-09

#40: M2.0 X 4.0 (Tapping)
(Silver)
7-685-851-04

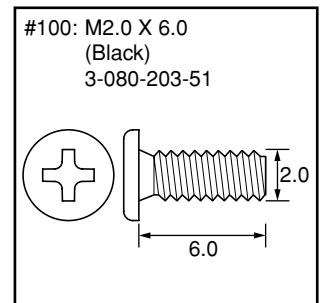
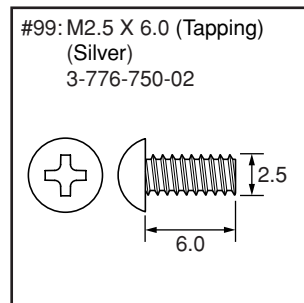
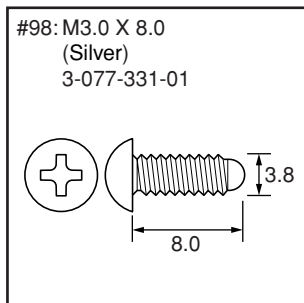
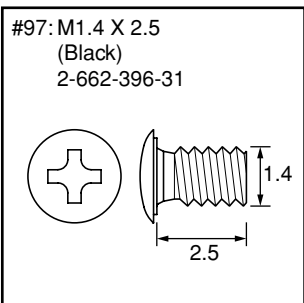
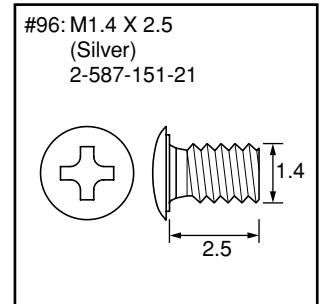
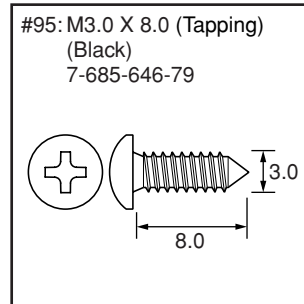
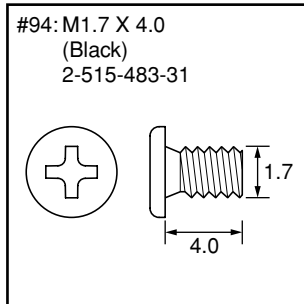
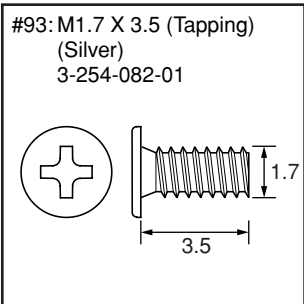
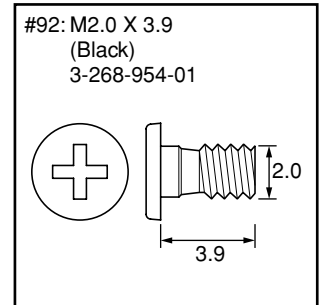
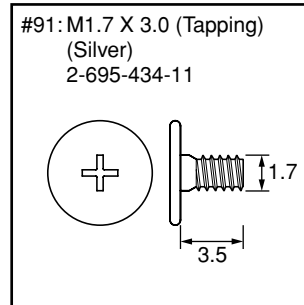
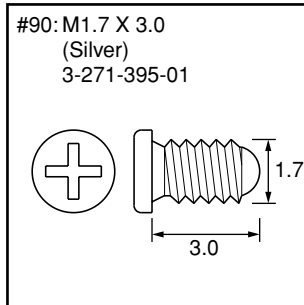
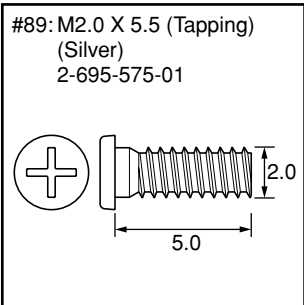
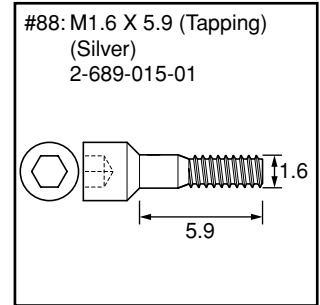
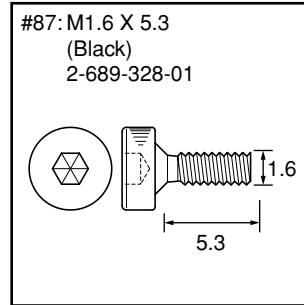
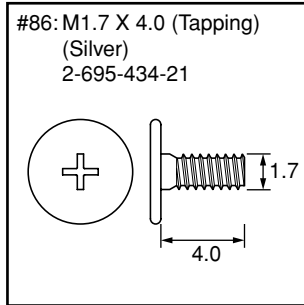
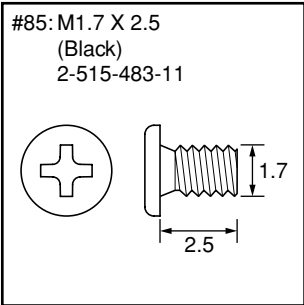
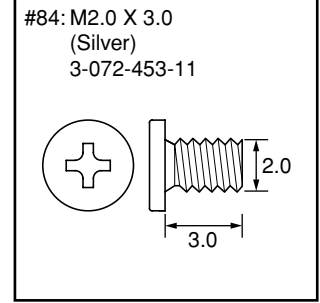
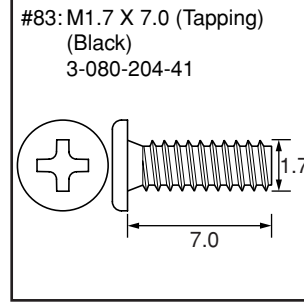
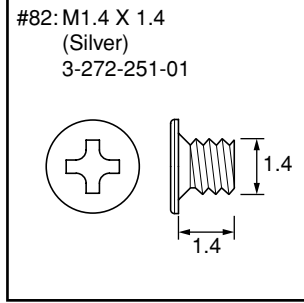
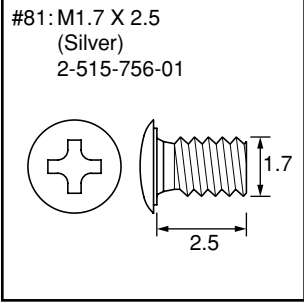
HARDWARE LIST (3/8)



HARDWARE LIST (4/8)



HARDWARE LIST (5/8)



HARDWARE LIST (6/8)

#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

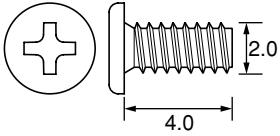
#118: M1.4 X 2.0
(Black)
2-655-580-01

#119: M2.6 X 5.0
(Black)
7-627-556-58

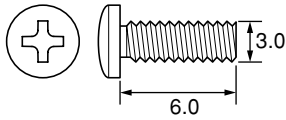
#120: M2.6 X 6.0
(Silver)
7-621-770-67

HARDWARE LIST (7/8)

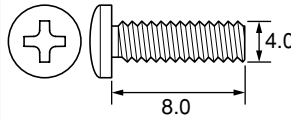
#121: M2.0 X 4.0 (Tapping)
(Silver)
3-080-205-11



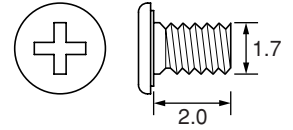
#122: M3.0 X 6.0
(Black)
7-682-547-09



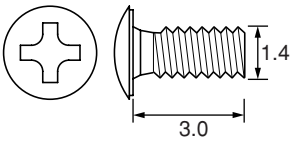
#123: M4.0 X 8.0
(Black)
7-682-561-09



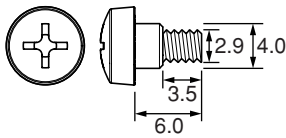
#124: M1.7 X 2.0
(Silver)
2-599-475-01



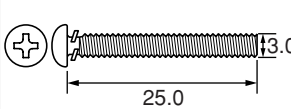
#125: M1.4 X 3.0
(Black)
3-291-847-01



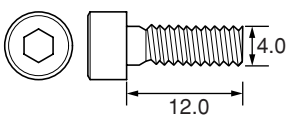
#126: M2.9 X 3.5
(Black)
3-292-616-01



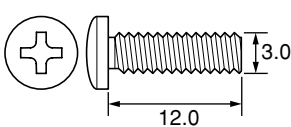
#127: M3.0 X 25.0
(Black)
7-682-654-09



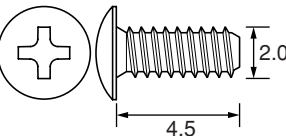
#128: M4.0 X 12.0
(Black)
3-452-472-01



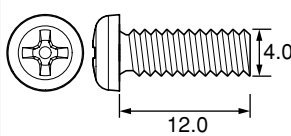
#129: M3.0 X 12.0
(Black)
7-682-550-09



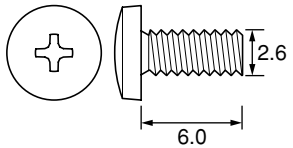
#130: M2.0 X 4.5 (Tapping)
(Silver)
3-732-817-11



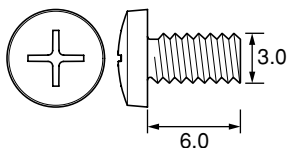
#131: M4.0 X 12.0
(Silver)
3-452-471-01



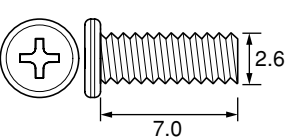
#132: M2.6 X 6.0
(Black)
4-673-655-01



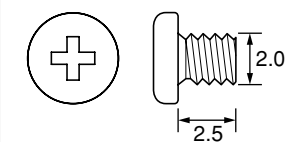
#133: M3.0 X 6.0
(Black)
3-452-484-01



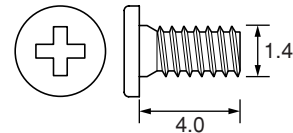
#134: M2.6 X 7.0
(Black)
3-299-572-01



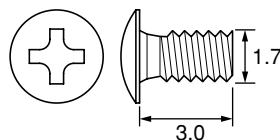
#135: M2.0 X 2.5
(Black)
7-627-553-28



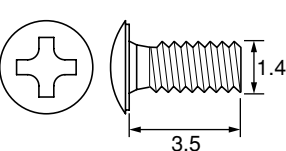
#136: M1.4 X 4.0 (Tapping)
(Black)
3-065-509-11



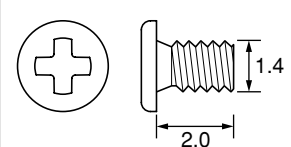
#137: M1.7 X 3.0
(Black)
3-090-976-62



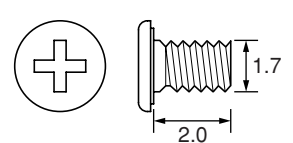
#138: M1.4 X 3.5
(Silver)
4-104-078-01



#139: M1.4 X 2.0
(Silver)
2-655-579-01

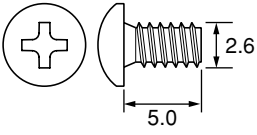


#140: M1.7 X 2.0
(Black)
2-635-562-01

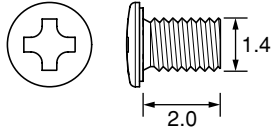


HARDWARE LIST (8/8)

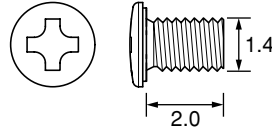
#141: M2.6 X 5.0 (Tapping)
(Silver)
7-685-791-01



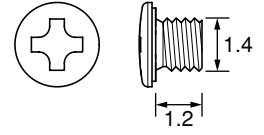
#142: M1.4 X 2.0
(Silver)
4-111-392-01



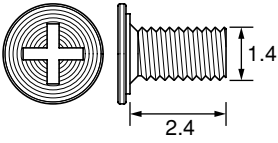
#143: M1.4 X 2.0
(Black)
4-111-392-11



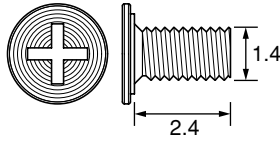
#144: M1.4 X 1.2
(Silver)
4-111-392-21



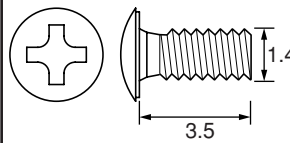
#145: M1.4 X 2.4
(Silver)
4-111-248-01



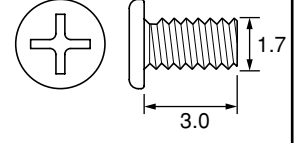
#146: M1.4 X 2.4
(Black)
4-111-248-11



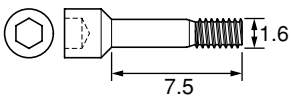
#147: M1.4 X 3.5
(Black)
2-662-396-41



#148: M1.7 X 3.0
(Silver)
3-057-082-21



#149: M1.6 X 7.5 (Tapping)
(Silver)
4-115-505-01



#150: M1.4 X 3.0
(Black)
4-105-150-01

