



作成承認印	配布許可印
	

F55

FAA39001
 FAA39011
 FAA39211
 FAA39221

N55

FAA39101
 FAA39301

Us

FAA39201

REPAIR MANUAL

Nikon | NIKON CORPORATION
 Tokyo, Japan

SPECIFICATION

1. Viewfinder

Type	: Hollow Pentagonal Type Single Lens Reflex Finder
Finder Screen	: B-type Clear Mat Screen V
Finder Replacement	: Unavailable
Screen Replacement	: Unavailable
Finder Visuality Ratio	: Approx. 87% both vertically and horizontally
Magnification	: 0.675 times at -1.52m^{-1} (dpt) 0.604 times at $+0.77\text{m}^{-1}$ (dpt) (50mm lens is used, ∞)
Diopter	: -1.52 to $+0.77\text{m}^{-1}$ (dpt) Can be adjusted by the diopter adjustment lever, by 4-step The optional eyepiece correction lenses can be used together.
Eye Point	: 15.9mm (at -1.52m^{-1} (dpt)) 23.1mm (at $+0.77\text{m}^{-1}$ (dpt)) 17.05mm (at -1m^{-1} (dpt))
Eyepiece Frame	: Rectangular Shape (F-401 type, new-eye eyepiece rubber is equipped.)
Eyepiece Lens	: 3 elements in 3 groups (Material; polycarbonate, acrylic)

2. Shutter

- ① Electronically controlled vertical-travel focal-plane shutter
- ② Max. Shutter Speed 1/2000, At Synchronous Speed 1/90
- ③ Curtain Speed Approx. 8msec (24mm Image plane)
- ④ Traveling Direction Vertical-travel (Up)
- ⑤ The Number of Blade Front curtain 4 elements Rear curtain 4 elements
- ⑥ Material of Blade Aluminum Blade and Plastic Blade are used together
- ⑦ Control Speed Range 30sec. to 1/2000sec., Time (M mode only)

3. Metering

- ① System TTL full-aperture exposure metering system by the IC integrated type five-segments sensor and TTL fill flash by CCD
- ② Control System With D-type Nikkor Lens: 3D five-segment Matrix Metering
Without D-type Nikkor Lens: Five-segment Matrix Metering
When the exposure mode is M: Center-Weighted Metering
- ③ Metering Range EV1 to 20 (ISO 100, when using F1.4 lens)
- ④ AE Lock No lock

4 . Auto Flash

- ①System TTL-BL Fill-Flash by the IC integrated type sensor
- ②Range Built-in speed light:GN2.8 to 12 (ISO 100 m)
External speed light: External fill-flash only
- ③ISO Interlocking Range ISO 25 to 800 (Built-in/ External in common)
- ④Built-in Speed light Auto Flash System
Exposure Mode P, S, A, AUTO, Image program: TTL-BL
- ⑤Full Output Warning Ready-light in the finder blinks (For 3 to 4 sec.)

5 . External Speed light

- ①Communication Serial communication is not available.
- ②Usable function with the external speed light
Shutter speed is changed to the synchronous shutter speed automatically
Ready-light display only
(But only when using the SB that can be recognized by the ready contact of camera.)
- ③Usable Mode Exposure Mode M, A: External auto-flash, Manual fill-flash
Exposure Mode Program Flash Mode: External auto-flash, Manual fill-flash
(When the exposure mode dial is at P, S, AUTO or Image Program, the mode is changed automatically.)
- ④Red Eye Reduction Function
Pre-firing system by the red-eye reduction lamp (By the built-in lamp)

6 . Built-in speed light


- ①Type Serial control type, Auto pop-up type
Auto pop-up, when it is low luminance while pressing the shutter release button lightly at AUTO and Image Program Mode and when satisfying the condition that the speed light pops up for the backlight.
The speed light pops up by operating the flash sync mode button at PSAM modes, and the speed light fires compulsorily when the speed light pops up.
- ②Guide No. 12 (ISO 100 · m)
- ③Illuminating Angle Cover the 28mm lens
- ④Charging Time Approx. 3 sec.
- ⑤Red Eye Reduction Function
Pre-firing System by the red-eye reduction lamp

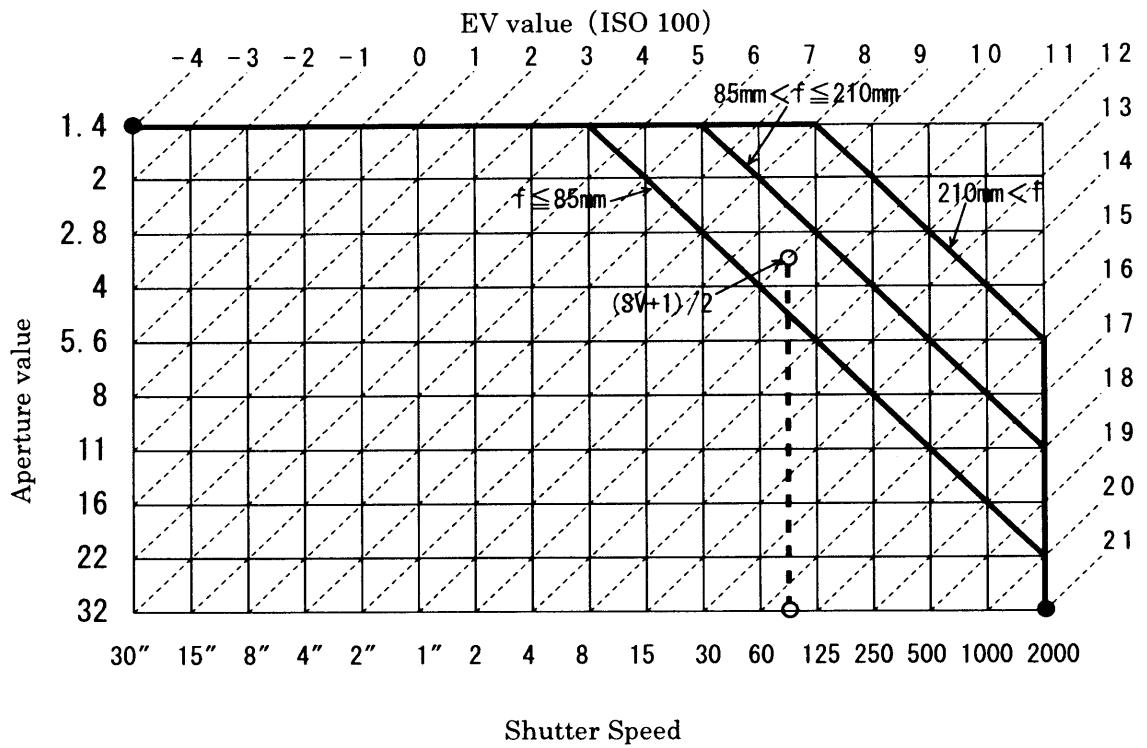
7. AF

- ①Detection System TTL Phase Difference Detection System using AP-7 module
- ②Detection Range EV-1 to 19 (ISO100, at normal temperature)
- ③Usable Lens for Detection Maximum aperture value F5.6 or less
- ④Usable Lens for Driving AF Nikkor lenses except AF Nikkor for F3AF, AF-I and AF-S lens
- ⑤Driving Mode Auto-Servo AF Mode (AF-A)
(Switch: EASY PSAM, AUTO, P.F> Image program except Sports Continuous Mode DIFFICULT)
- ⑥Tracking Drive Single AF servo at Auto AF servo and Continuous Servo AF mode are available
- ⑦Focus Lock Focus is locked when the focus does not track at Single AF servo and the subject is in-focus.
After the focus is locked, if it recognizes that the object is a moving body, it cancels the lock.
- ⑧AF-Assist Illuminator Auto firing only
Cancel the AF-Assist Illuminator at Landscape mode and Sports Continuous mode
Function that cancels the AF-Assistant Illuminator: Unavailable
It can perform the metering from approx. 0.5m to 3m
Focusing time is the same as that of EV3 or brighter (Exclusive white and black chart, 20C)
Assist illuminator of the body fires also when using the external speedlight with the assist illuminator.


8. Program Diagram

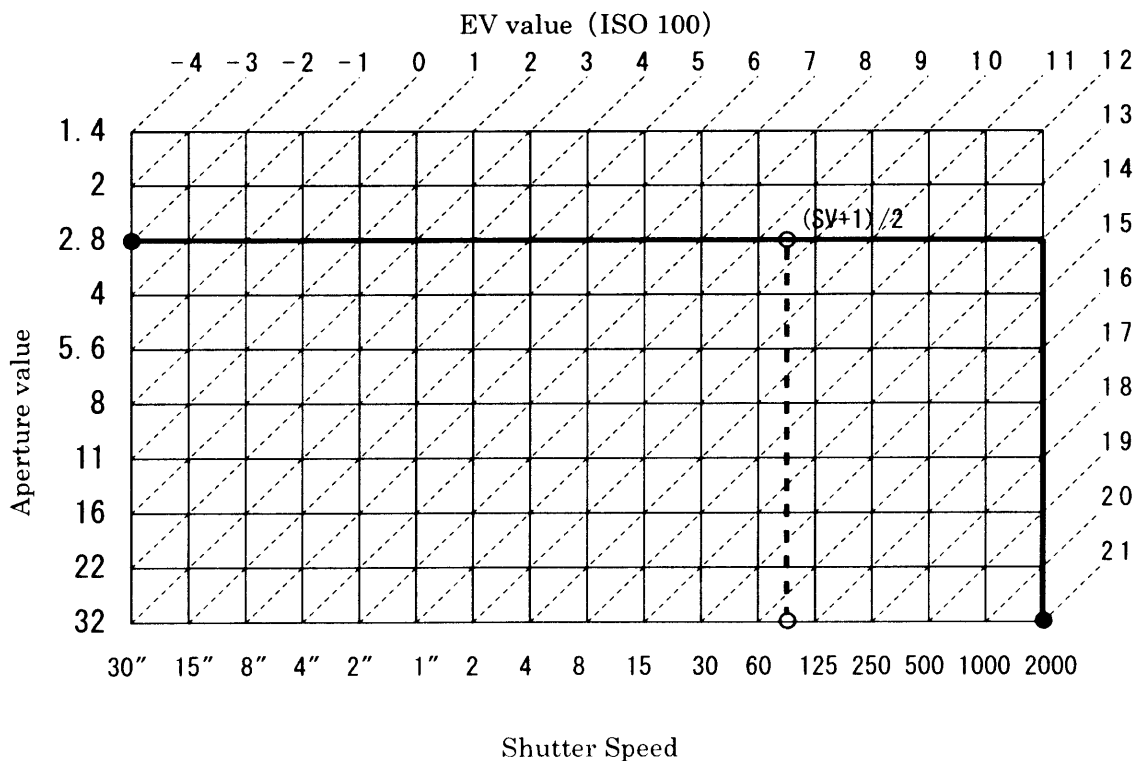
● — ● When not using the speed light ○ - - - ○ When using the built in speed light

(1) Auto-Multi Program Mode (P) and AUTO Mode ()

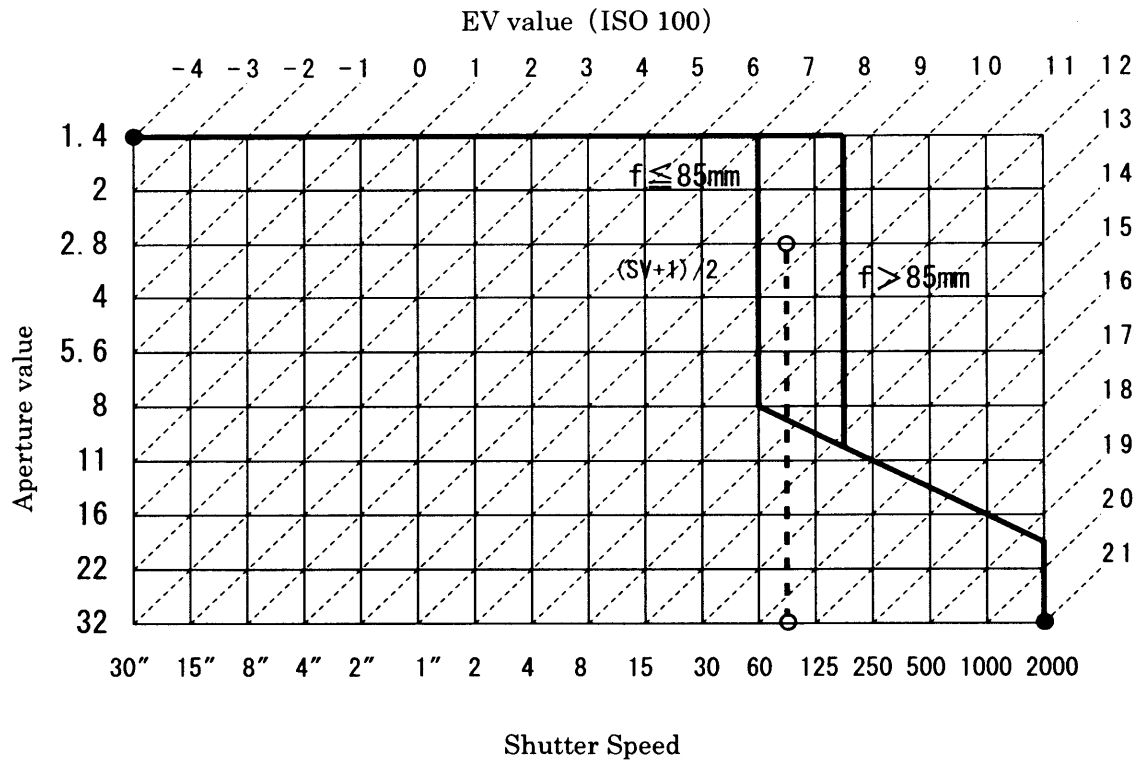


In the control diagram, the limit of the control aperture value at the aperture side is mentioned 1.4, but on the control, the aperture value is available up to 1.0 and the limit is not made. (Since no lens of which aperture value is more than 1.4 can be controlled, the aperture value more than 1.4 is not mentioned in the diagram.)

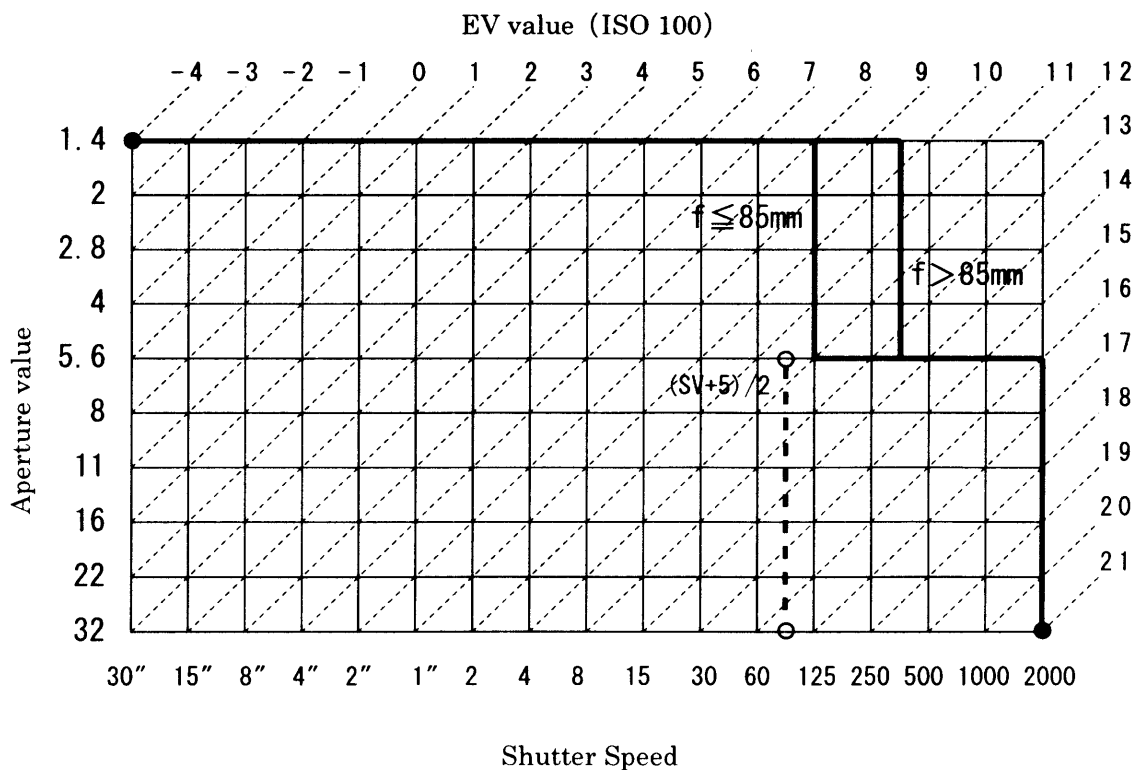
(2) Portrait Mode ()



[3] Landscape Mode (🏞️)



[4] Close-Up Mode (🌸)



DISASSEMBLING

1 . SEPARATION OF THE FRONT BODY FROM THE REAR BODY

BOTTOM COVER	D 1
BACK DOOR	D 2
FRONT COVER, GRIP COVER	D 3
TOP COVER	D 4
SEPARATION OF THE FRONT AND REAR BODY	D 5



2 . FRONT BODY

SHUTTER	D 7
LCD DISPLAY	D 8
MAIN PCB	D 8
AF SENSOR UNIT	D 9
REMOVE THE WIRES AND SOLDERING BRIDGES	D 9
APERTURE CONTROL BASE PLATE	D 1 0
APERTURE CONTROL LEVER	D 1 0
HORIZONTAL AF LEVER UNIT, F min SW	D 1 1
SB/BKTSWFPC, LENS RELEASE GROUP	D 1 1
LEVER # 191, A/M SW	D 1 2
TTL FPC UNIT	D 1 2
AF DRIVING UNIT	D 1 3
BAYONET MOUNT	D 1 3
LENS CONTACT	D 1 4
MIRROR HOLDER	D 1 4
PENTAPRISM GROUP	D 1 5

3 . REAR BODY

SB UNIT, DC/DC UNIT, SUB PCB	D 1 6
COMMAND DIAL, DX CONTACT	D 1 6
BOTTOM BASE PLATE	D 1 7
FILM ADVANCE UNIT	D 1 7
SMALL PARTS REAR BODY	D 1 8

DISASSEMBLING/ASSEMBLING/ADJUSTMENT

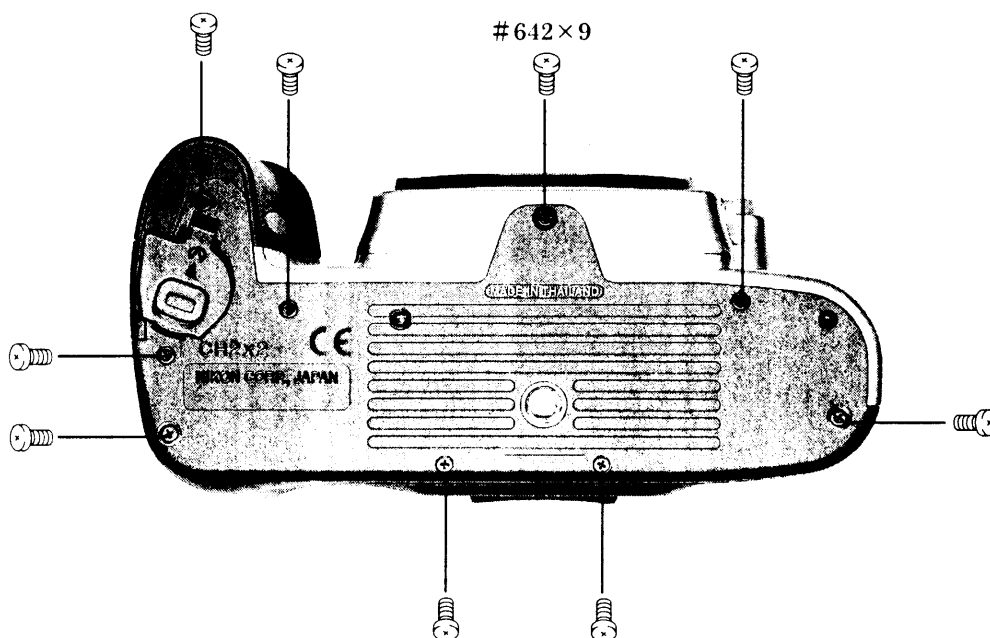
 WARNING	
	<ul style="list-style-type: none"> ● Due to its internal high voltage area, make sure to check the safety when removing the cover. ● Be sure to discharge the static electricity from the main condenser according to the instruction in the repair manual after removing the Grip cover.

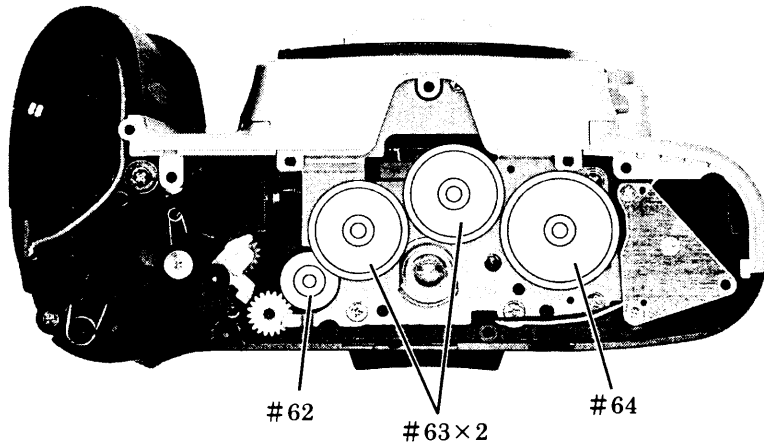
- Note :**
- ① This repair manual is made by using a product manufactured for trial, therefore, some part might be different from those of the mass production product.
Arrangement of wires might be changed depending on the period of manufacturing.
 - ② Be sure to take off the battery before disassembly.
 - ③ At disassembly, make sure to memorize how to arrange the wires, how to fix the screws, and the types of used screws.
 - ④ Be sure to get yourself grounded because of the static electricity which exerts any serious adverse effect to ICs.
 - ⑤ When you disassemble the camera body further than described in the disassembling section, refer to the exploded drawings and assembling section, since some parts are disassembled as a unit part.

DISASSEMBLING

1. SEPARATION OF THE FRONT BODY FROM THE REAR BODY

BOTTOM COVER

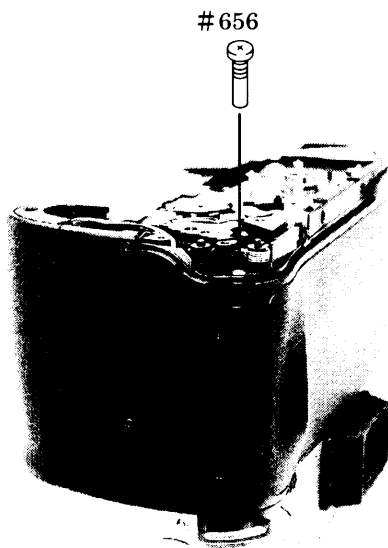




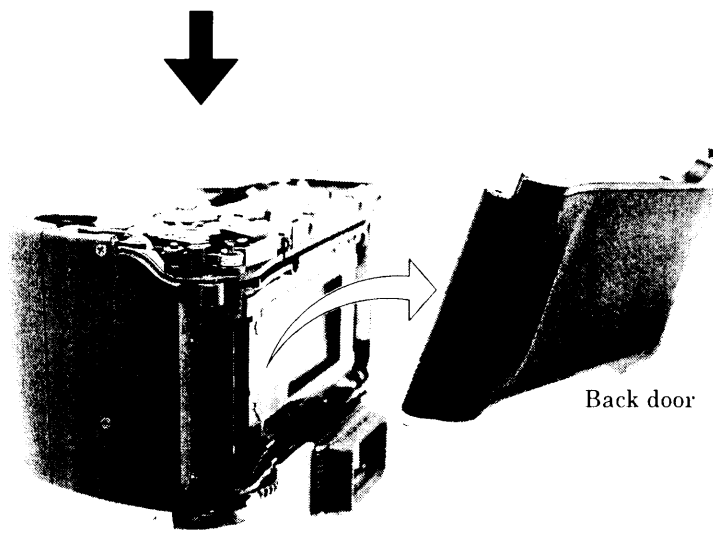
- Remove the gears indicated in Figure on the left.

BACK DOOR

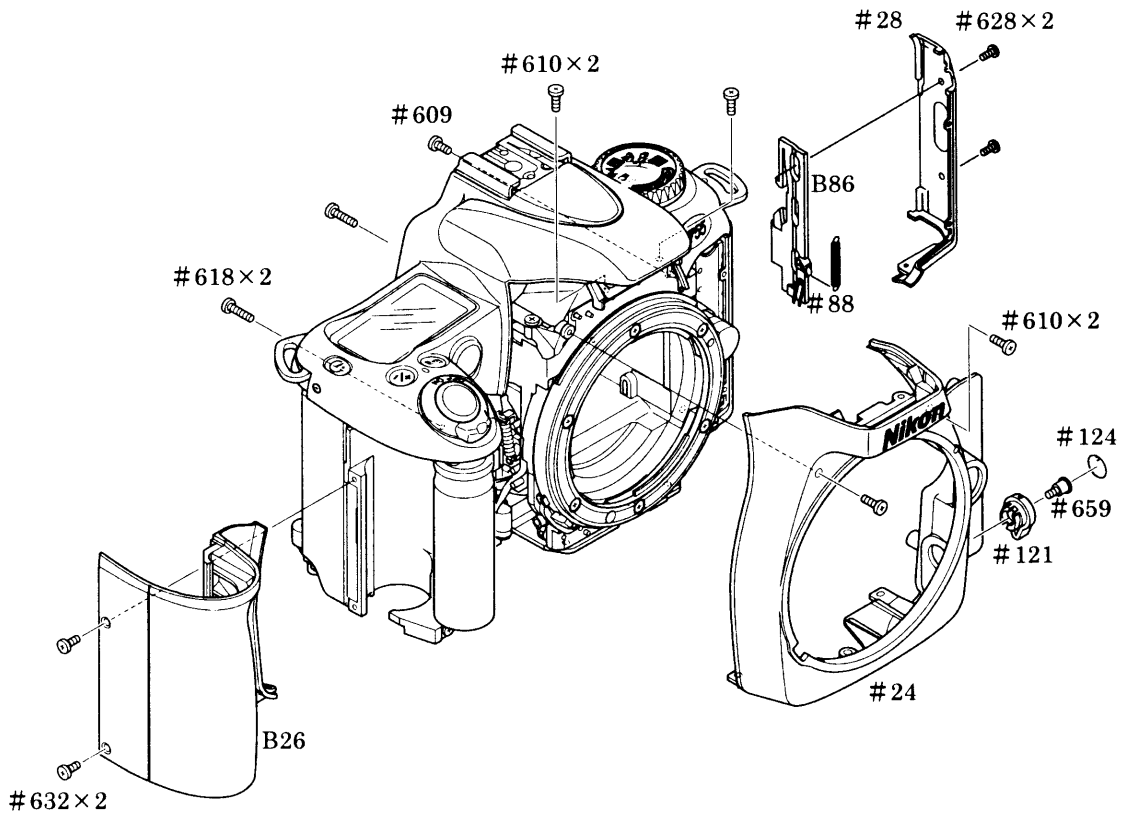
Notes : Never use the solvent when cleaning the pressure plate, but use the A-level dust cleaning cloth or Savina Minimax and wipe it softly because the pressure plate of this camera is coated with the special paint.



- Remove the screw #656, and then remove the camera back as shown in Picture below.

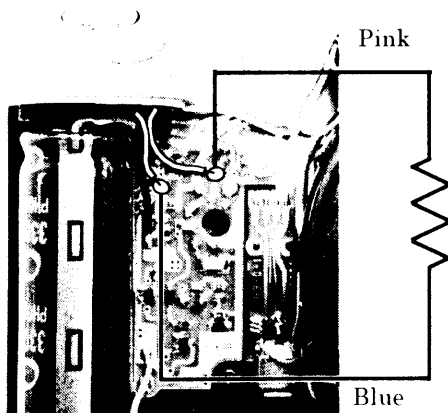


FRONT COVER, GRIP COVER



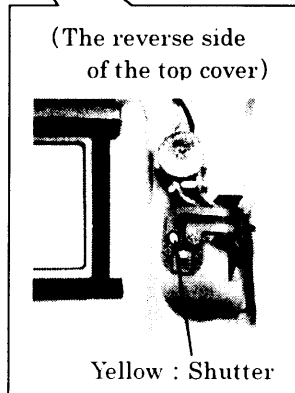
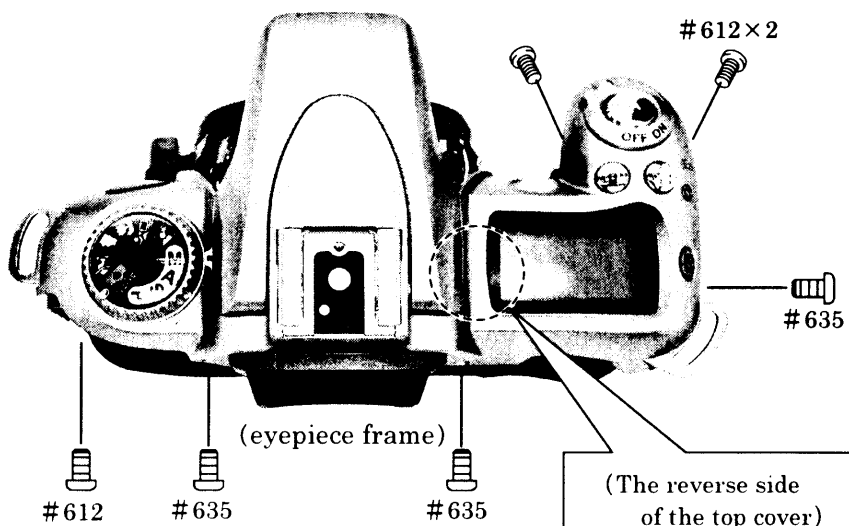
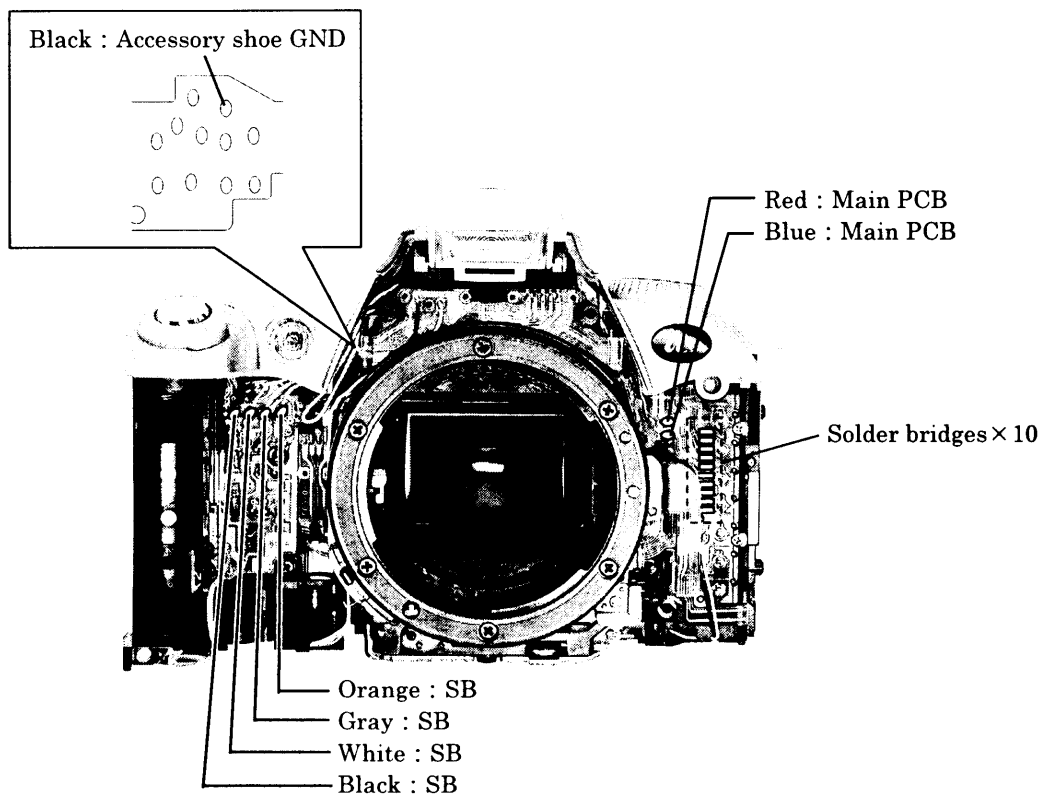
Discharging from the main capacitor

- After discharging electricity, unsolder the pink and blue wires, and then remove the main condenser.



For the discharge a resistance of approx $2k\ \Omega$ /5W should be used.

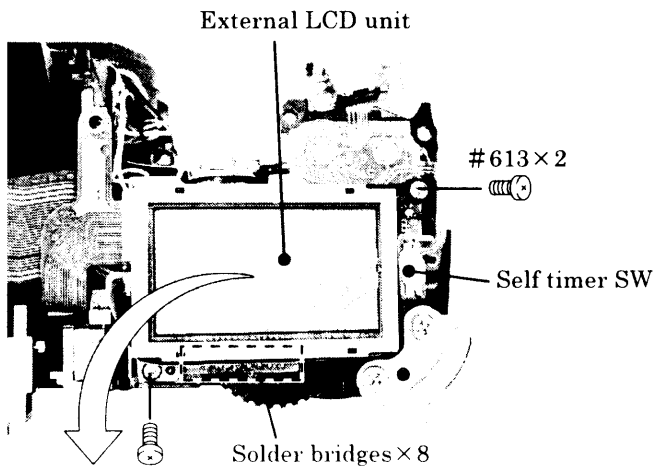
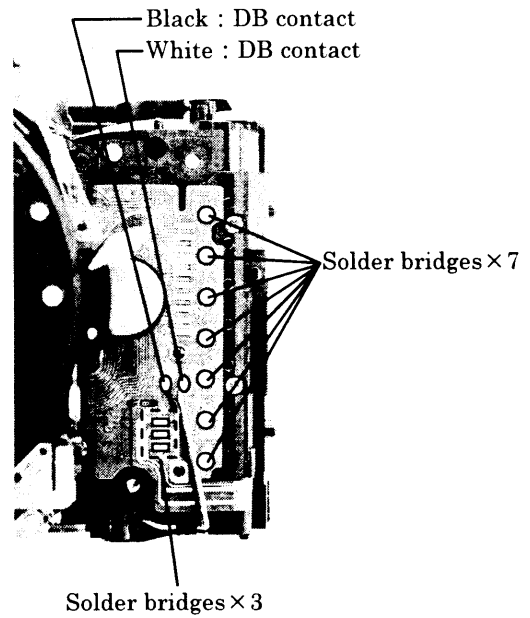
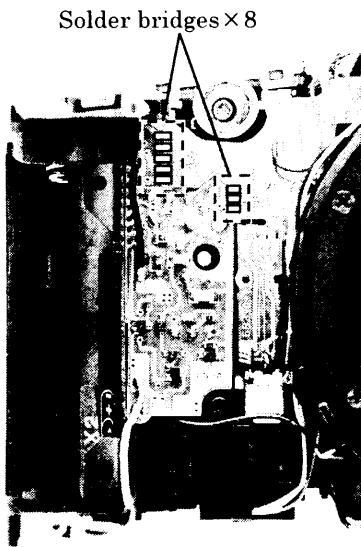
TOP COVER



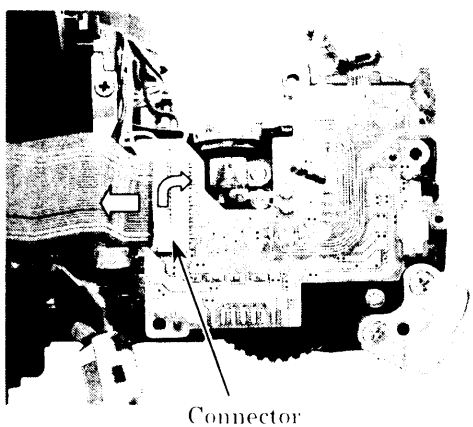
• With removing the top cover, the eyepiece frame can be removed.

SEPARATION OF THE FRONT AND REAR BODY

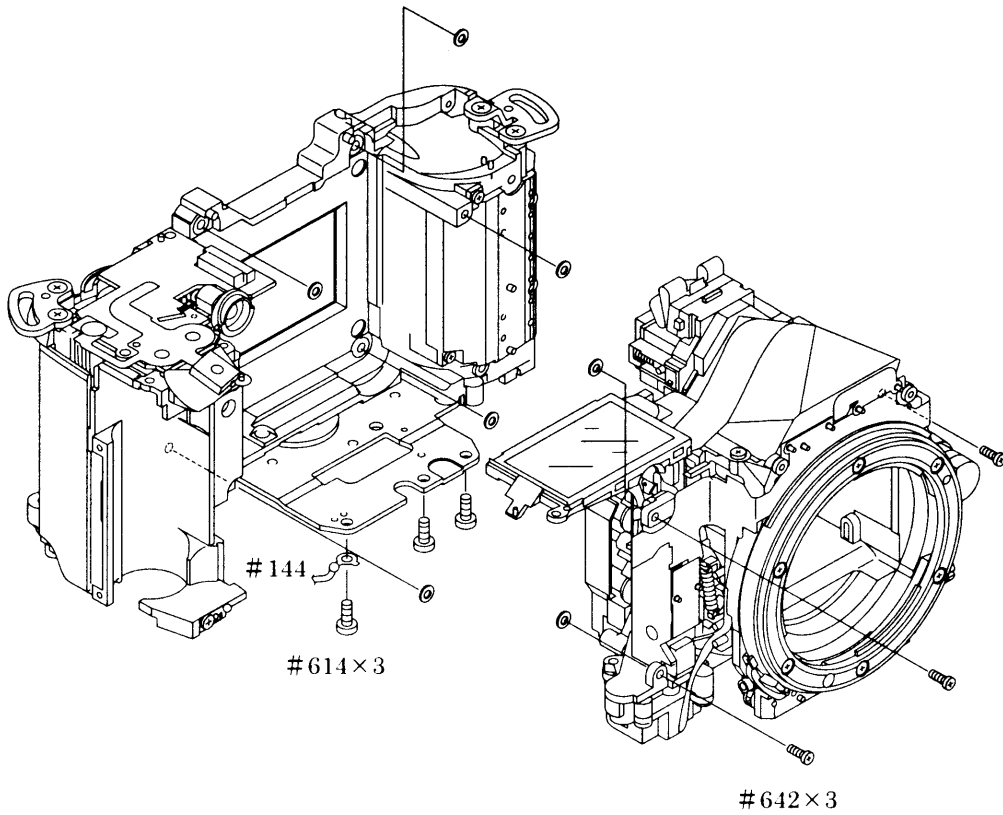
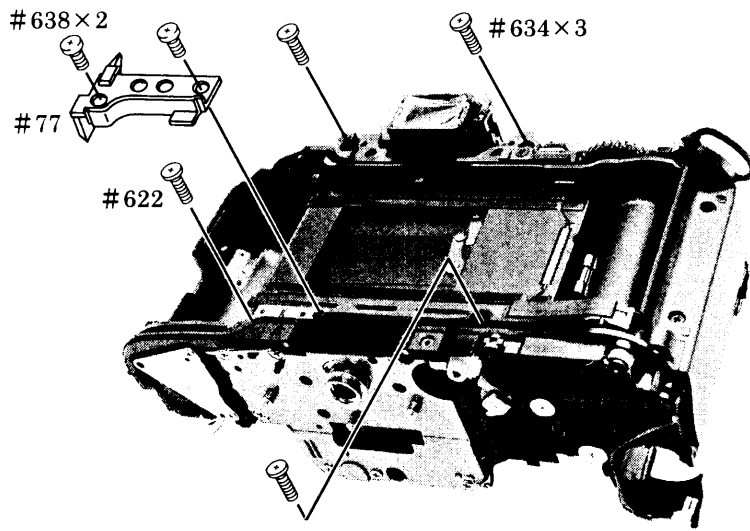
Remove each wires and solder bridges



Note : Remove the FPC of the self-timer SW first, and then lift up the external LCD unit in an arrow direction.

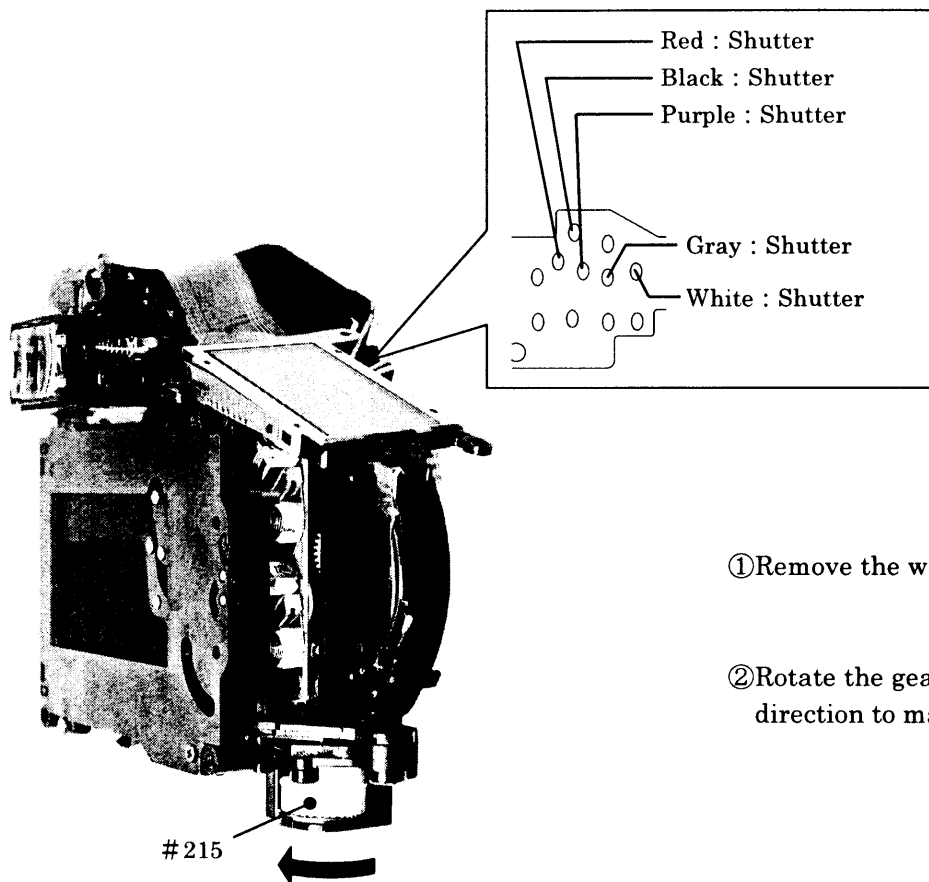


• Remove the FPC of the main PCB from the connector.



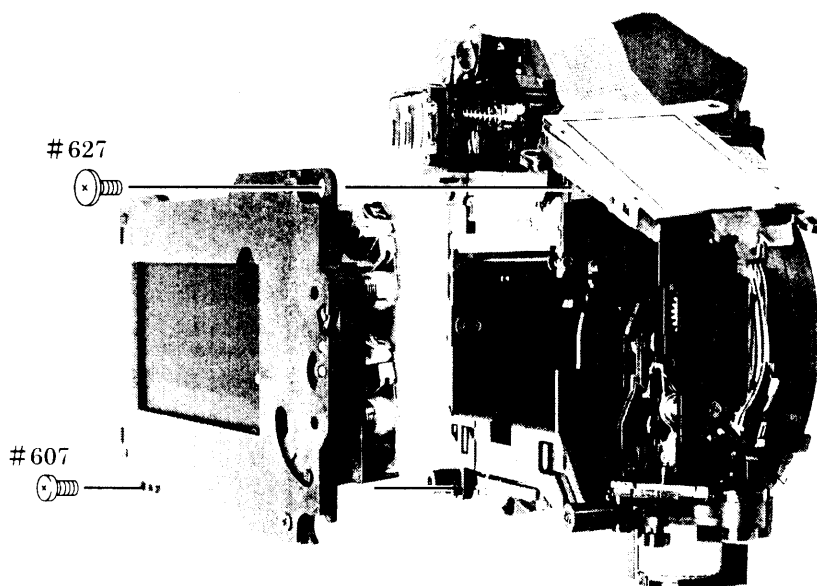
2. FRONT BODY

SHUTTER



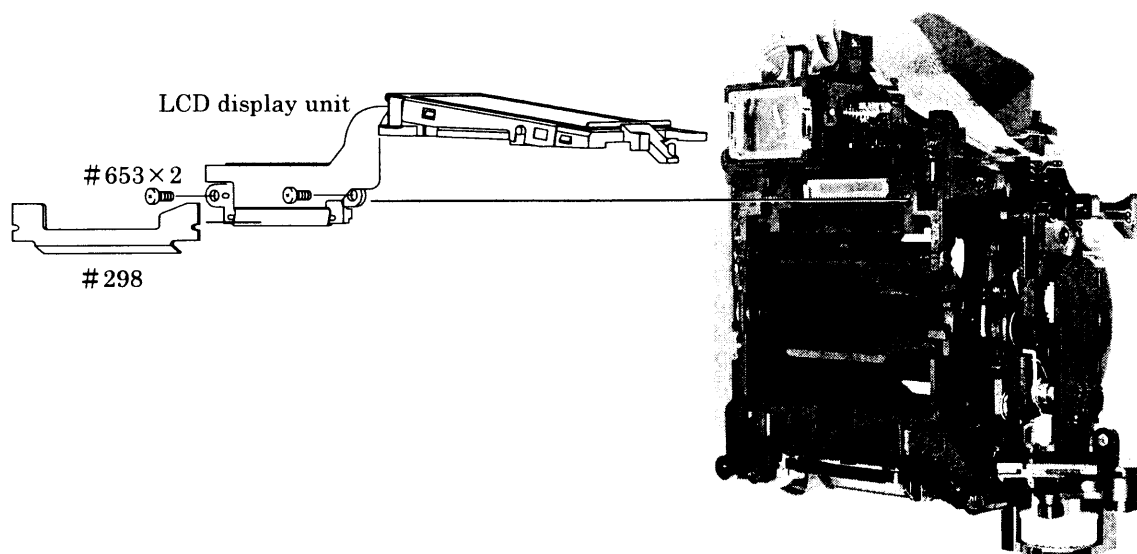
① Remove the wires of the shutter.

② Rotate the gear #215 in an arrow direction to make the mirror up

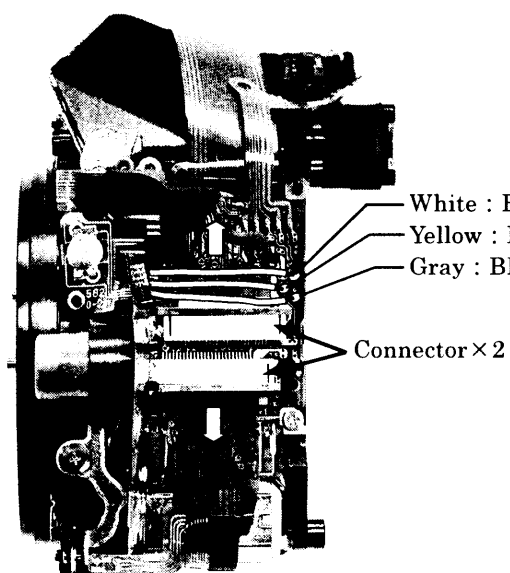


· After removing the shutter, rotate the gear #215 to make the mirror down.

LCD DISPLAY UNIT



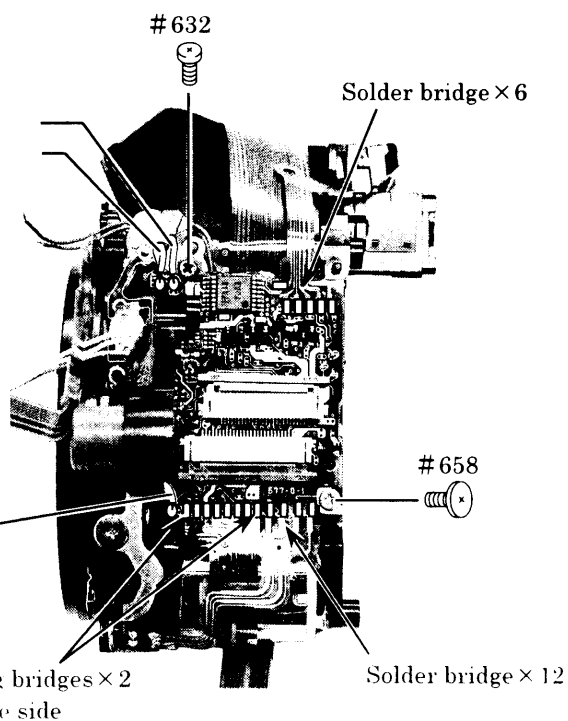
MAIN PCB



White : BKT-SW
 Yellow : BKT-SW
 Gray : BKT-SW

Connector x 2

Red : AF Motor
 Black : AF Motor



Solder bridge x 6

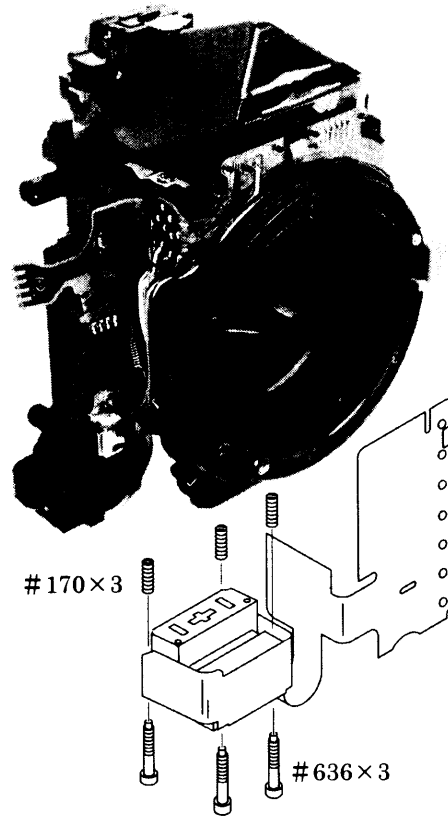
#658

Yellow : A/M SW

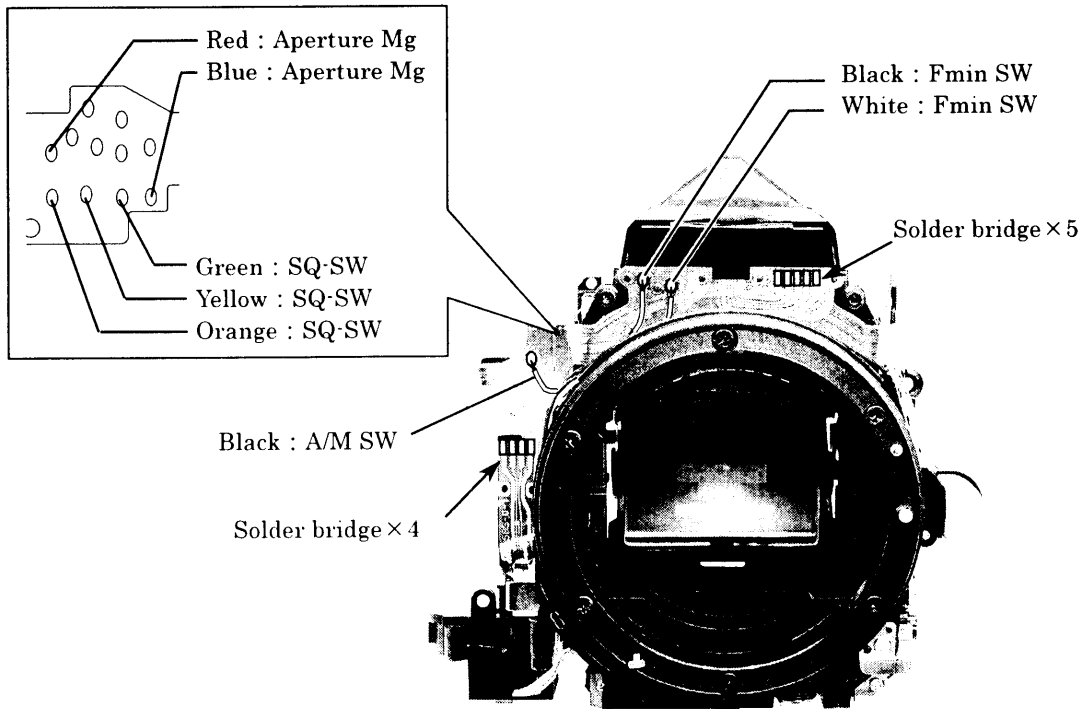
The soldering bridges x 2
 on the reverse side

Solder bridge x 12

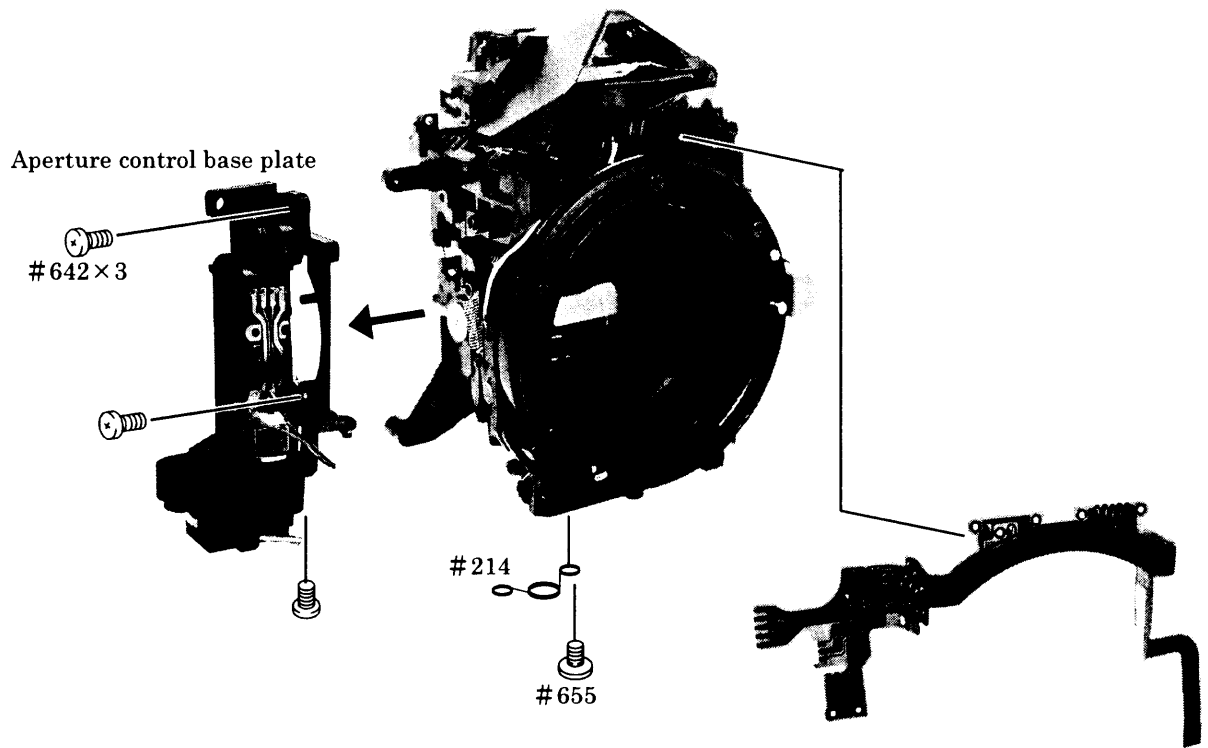
AF SENSOR UNIT



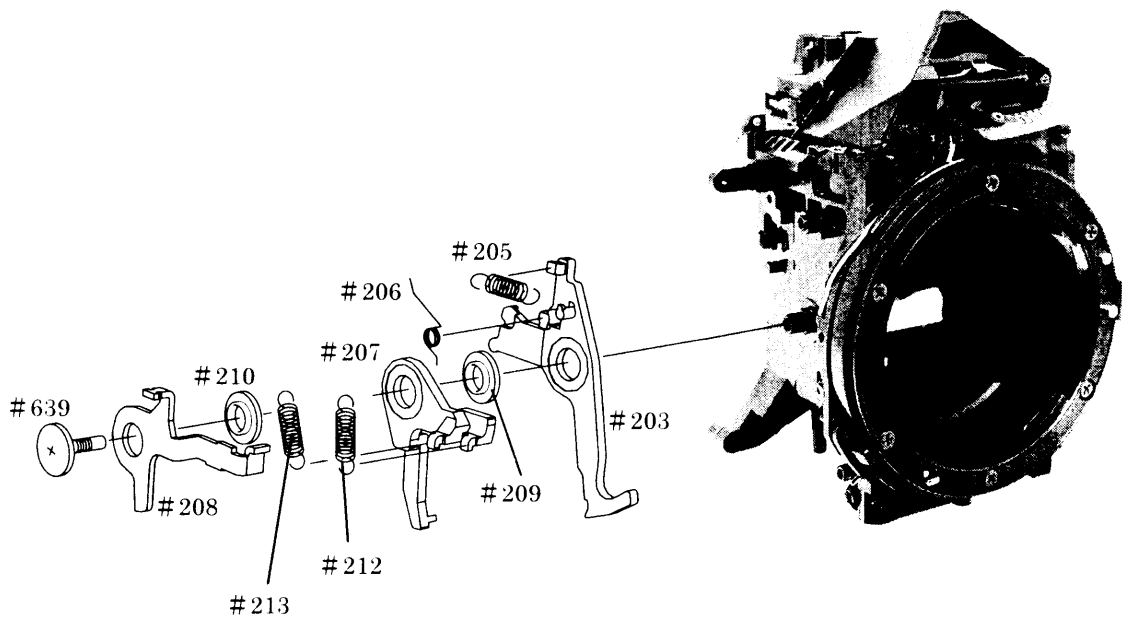
REMOVE THE WIRES AND SOLDERING BRIDGES



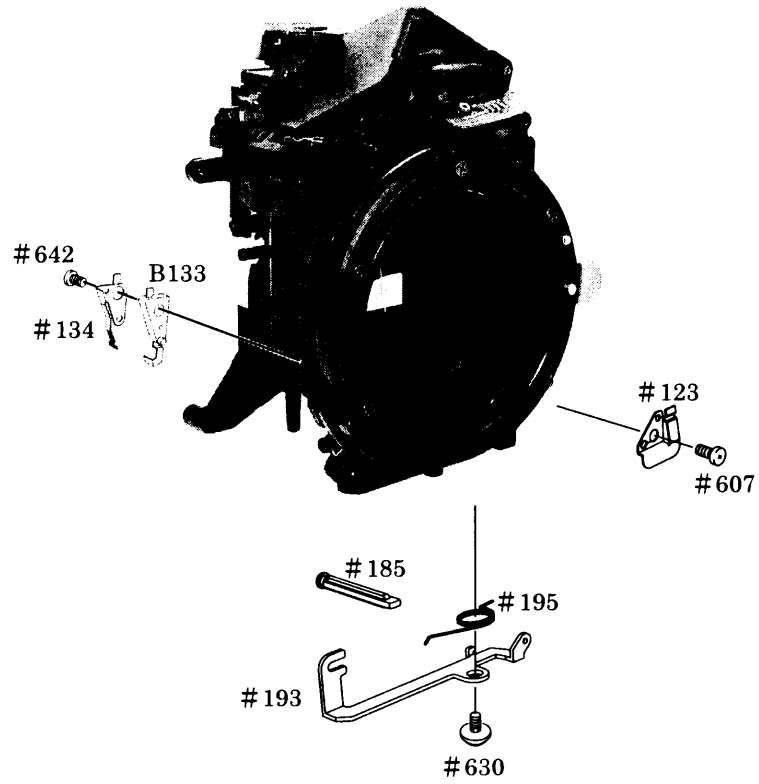
APERTURE CONTROL BASE PLATE



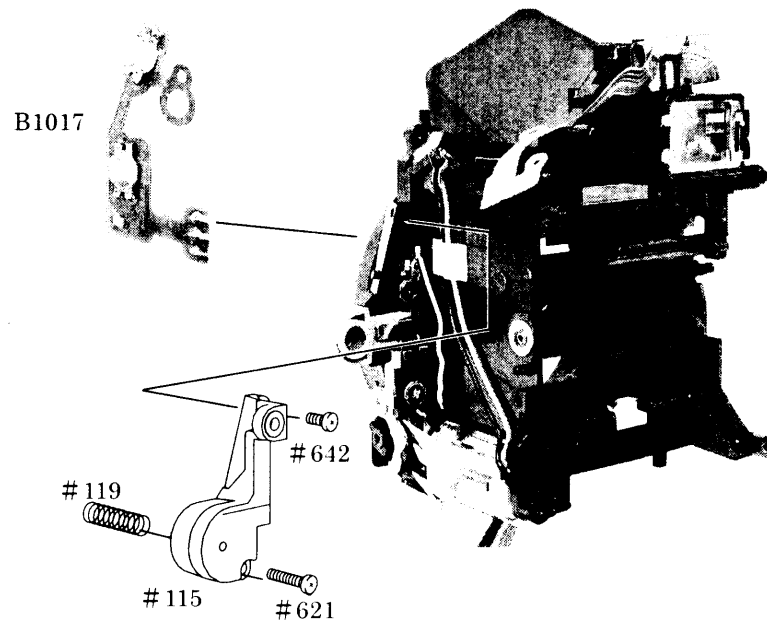
APERTURE CONTROL LEVER



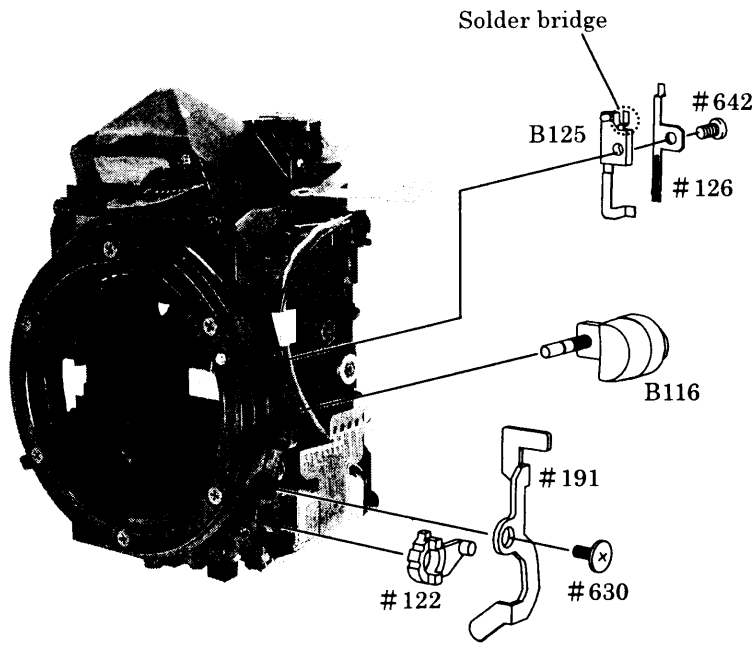
HORIZONTAL AF LEVER UNIT, F min SW



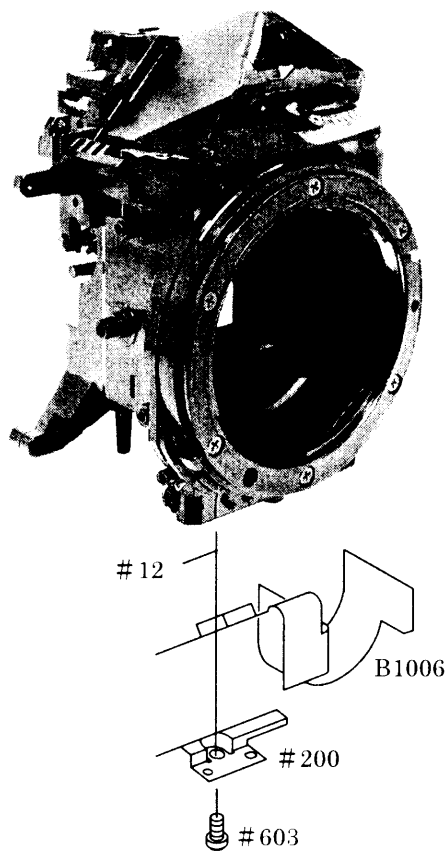
SB/BKTSWFPC, LENS RELEASE GROUP



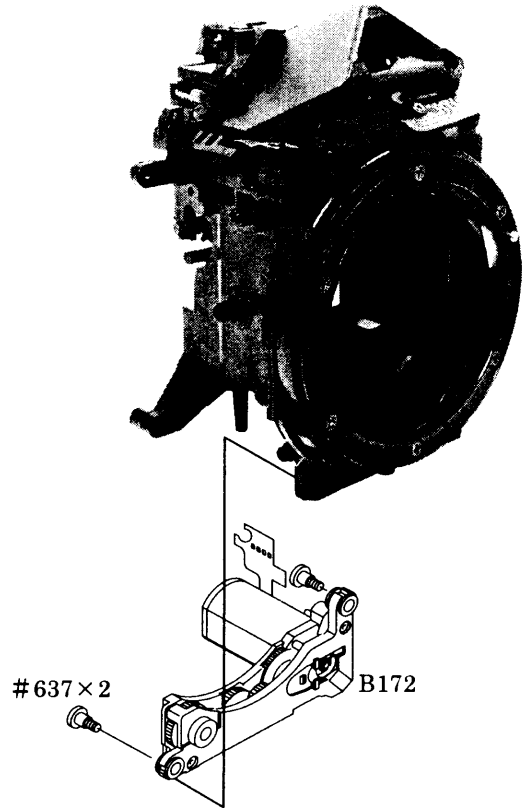
LEVER # 191、A/M SW



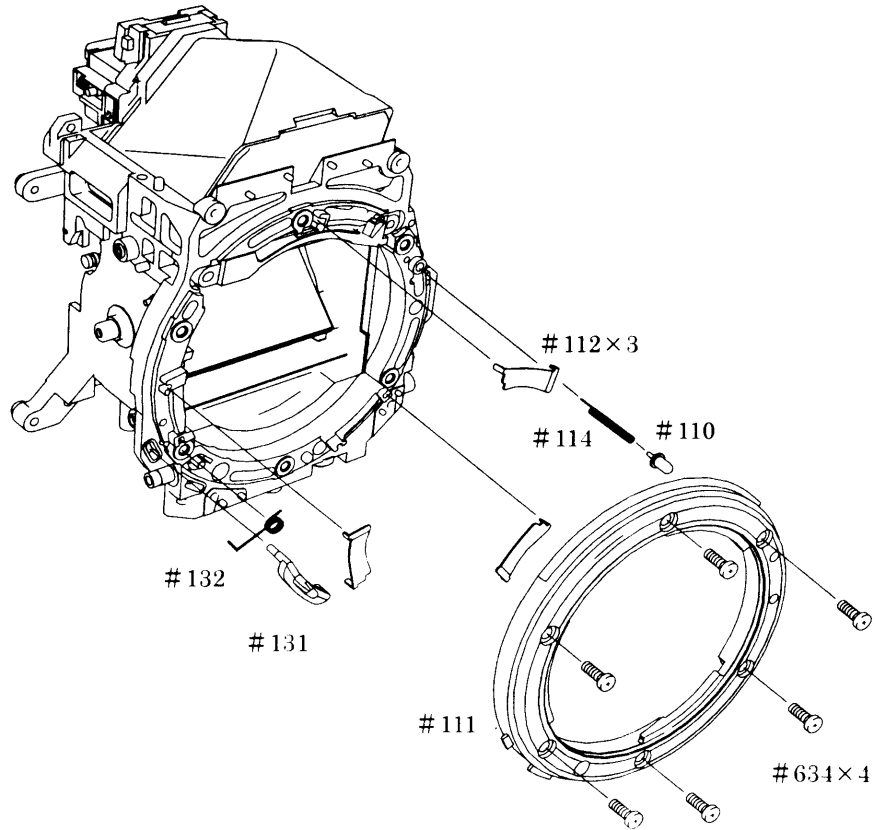
TTL FPC UNIT



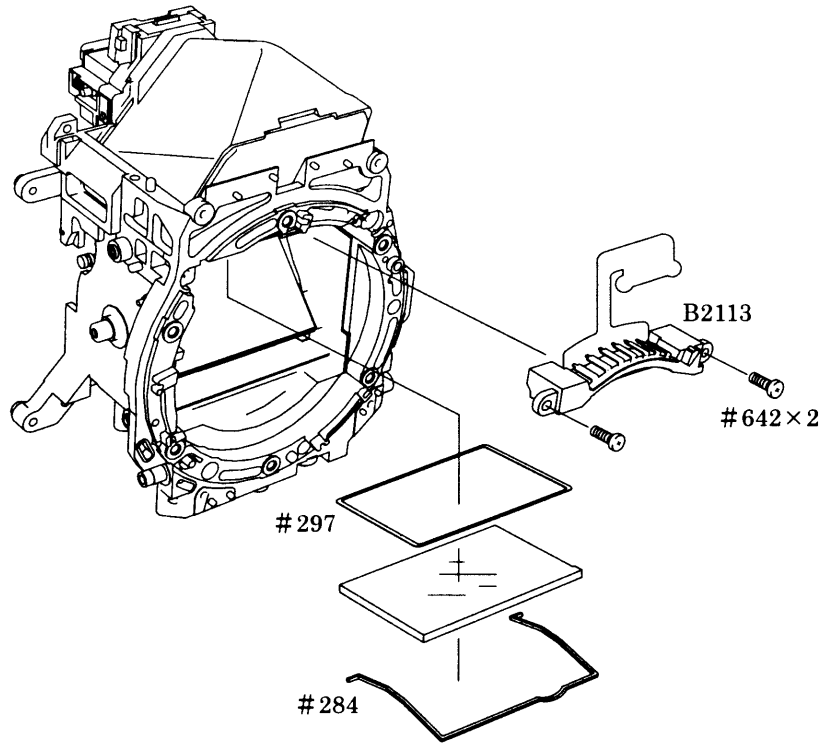
AF DRIVING UNIT



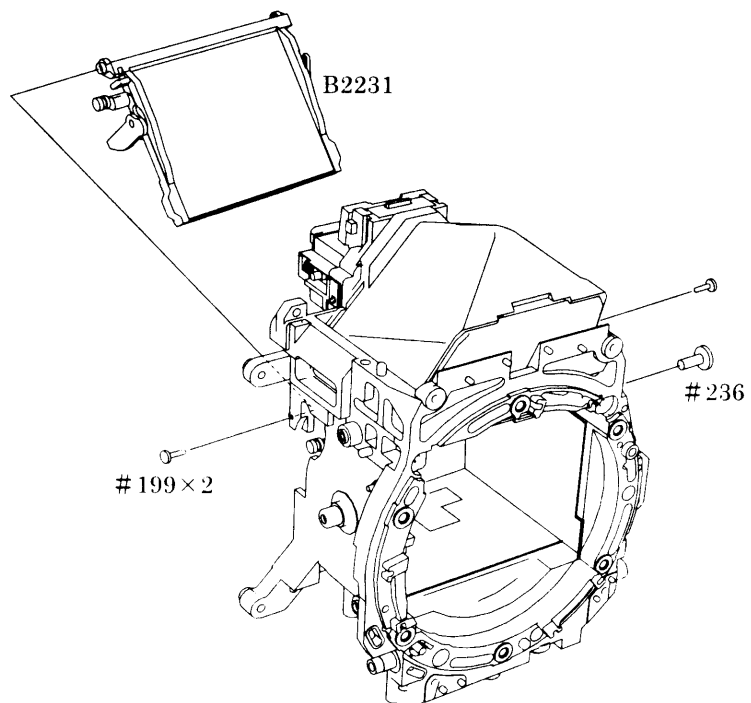
BAYONET MOUNT



LENS CONTACT

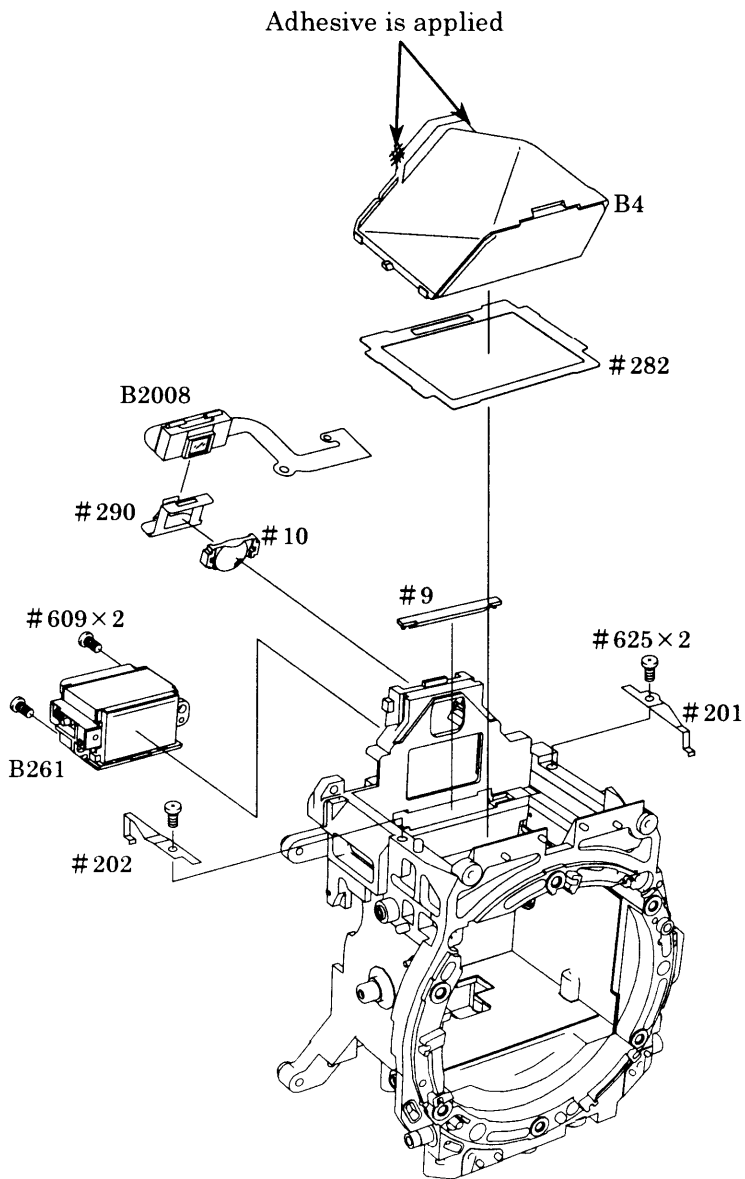


MIRROR HOLDER



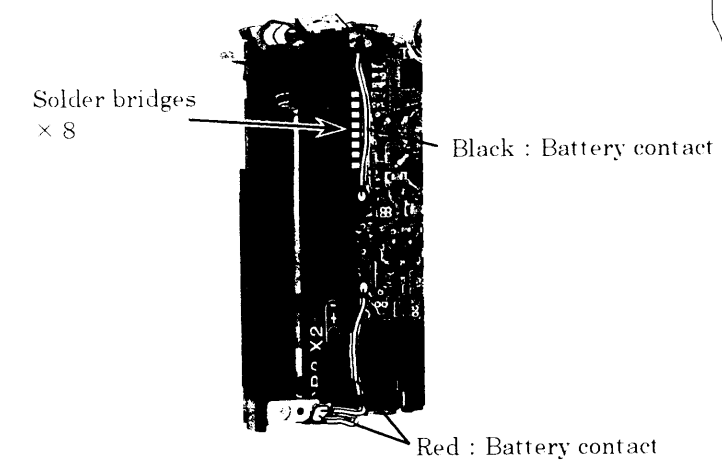
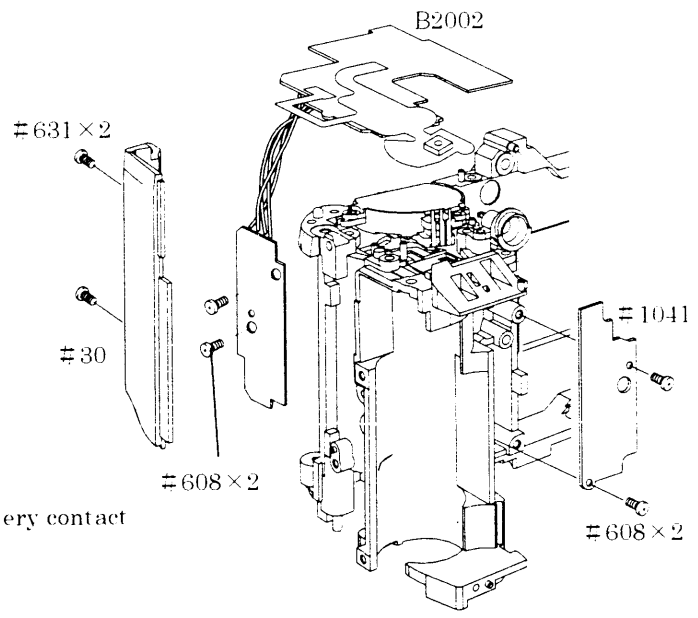
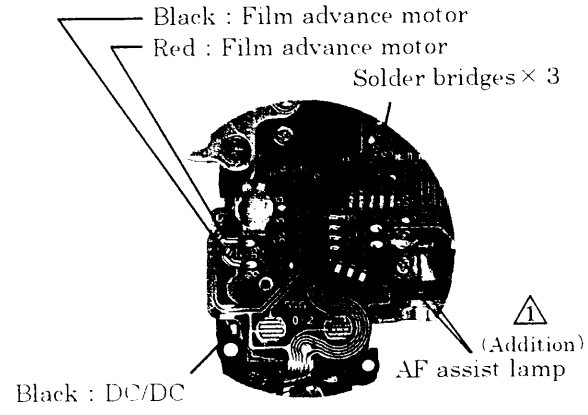
PENTAPRISM GROUP

Note : Since the prism of this camera is plastic hollow type, when cleaning inside the prism, blow inside the prism by using the blower.

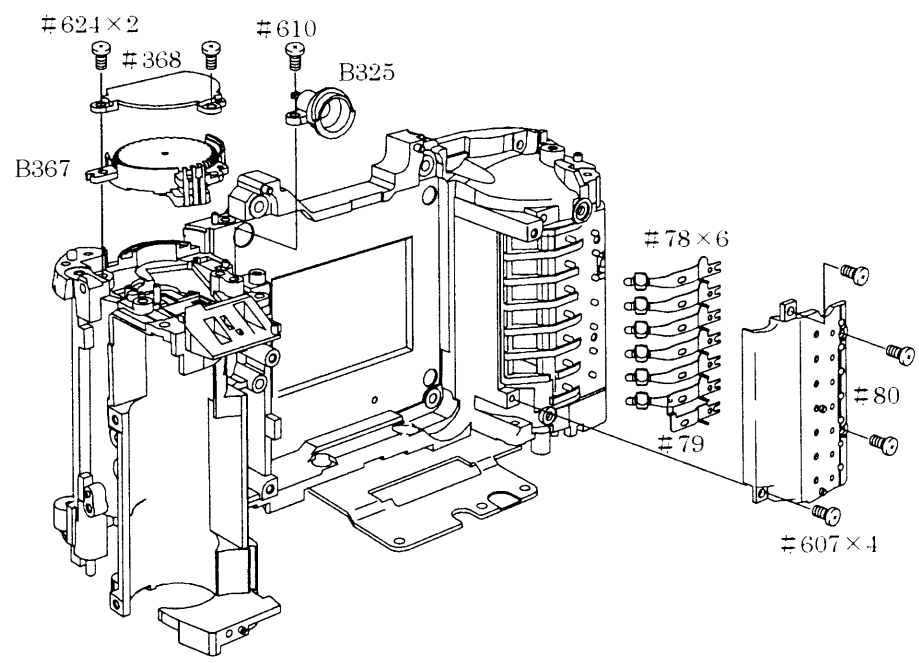


3. REAR BODY

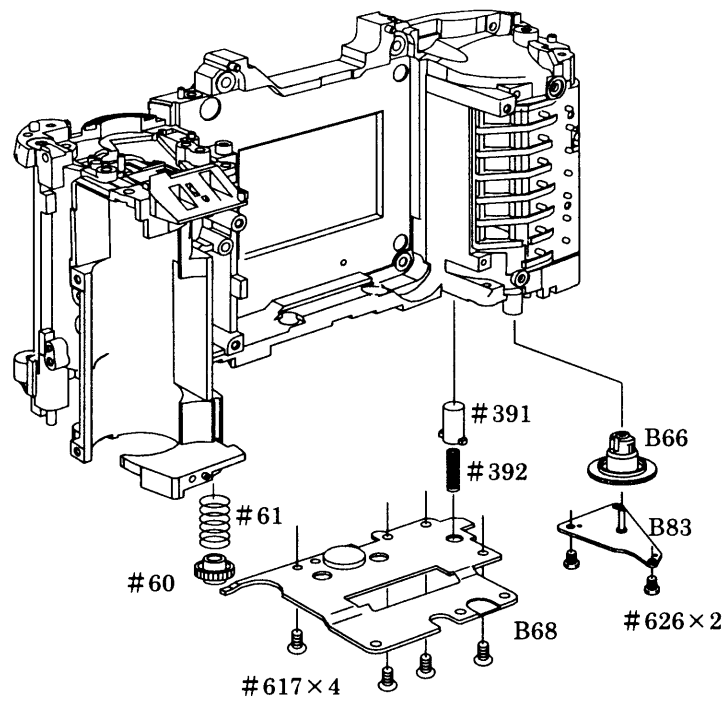
SB UNIT. DC/DC UNIT. SUB PCB



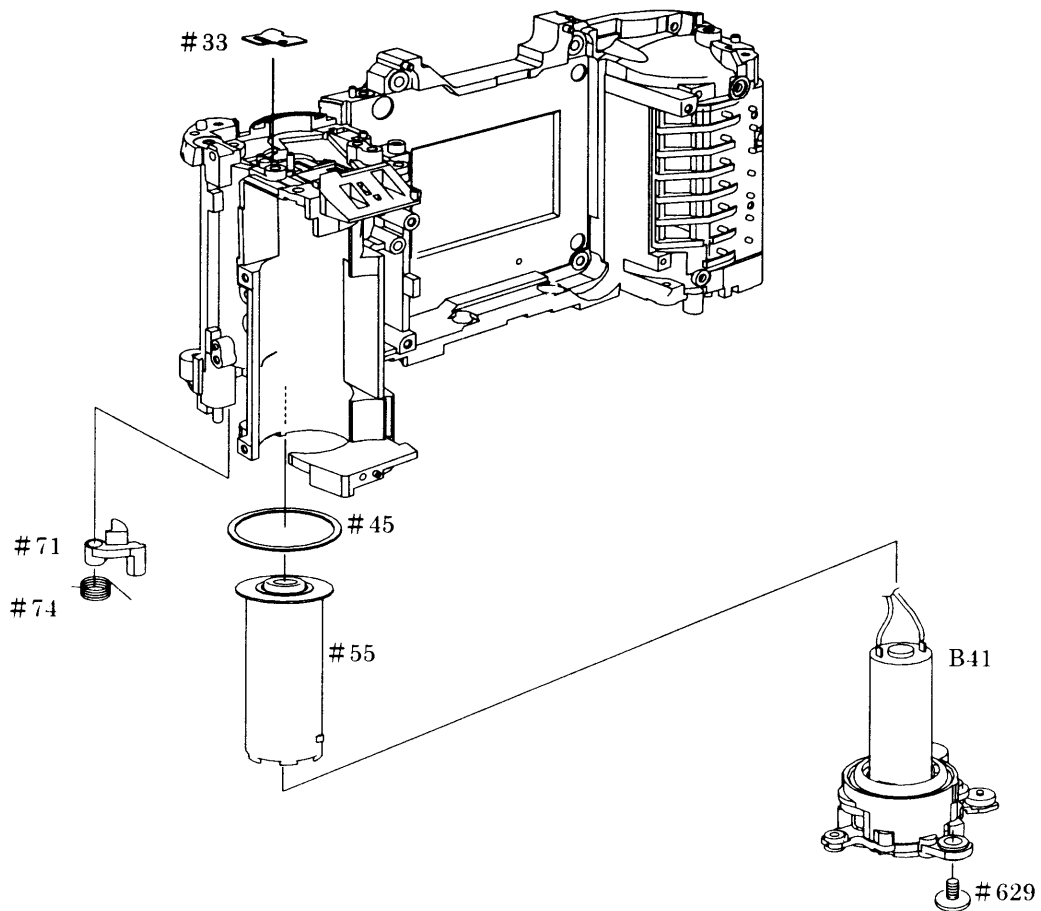
COMMAND DIAL. DX CONTACT



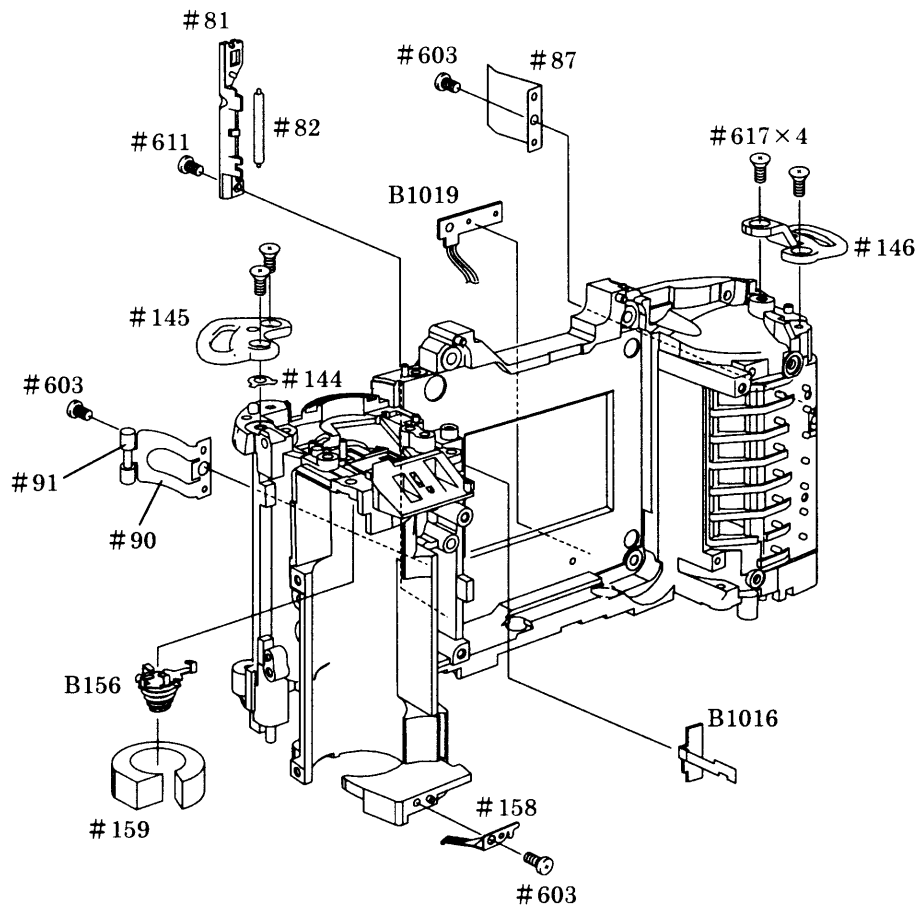
BOTTOM BASE PLATE



FILM ADVANCE UNIT



SMALL PARTS REAR BODY



ASSEMBLING/ADJUSTMENT

1. FRONT BODY

MIRROR HOLDER	A 1
APERTURE CONTROL LEVER, F min SW	A 2
APERTURE CONTROL BASE PLATE	A 3
AF DRIVING UNIT	A 4
LEVER # 191, A/M SW	A 4
HORIZONTAL AF LEVER	A 5
BAYONET MOUNT	A 5
LENS RELEASE BUTTON GROUP	A 6
HIGHT ADJUSTMENT OF AF COUPLING SHAFT	A 6
ADJUSTMENT OF APERTURE LEVER POSITION	A 7
TTL FPC UNIT	A 7
AF SENSOR UNIT	A 8
SB/BKTSWFPC	A 8
MAIN PCB	A 9
ANGLE ADJUSTMENT OF MAIN MIRROR AND SUB MIRROR TO 45°	A 1 0
LCD DISPLAY UNIT	A 1 1
SHUTTER	A 1 1
EYEPIECE LENS UNIT	A 1 2
PENTAPRISM GROUP	A 1 2
AE SPD POSITION ADJUSTMENT	A 1 3

2. REAR BODY

SMALL PARTS REAR BODY	A 1 4
FILM ADVANCE UNIT	A 1 4
COMMAND DIAL, DX CONTACT	A 1 5
SB UNIT, DC/DC UNIT, SUB PCB	A 1 6
BOTTOM BASE PLATE	A 1 6

3. MOUNTING BOTH THE FRONT AND REAR BODY

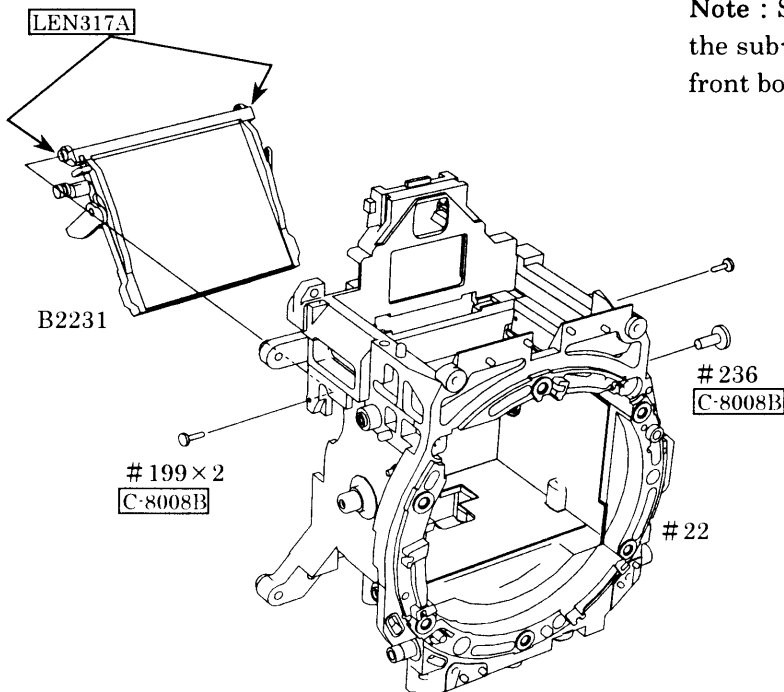
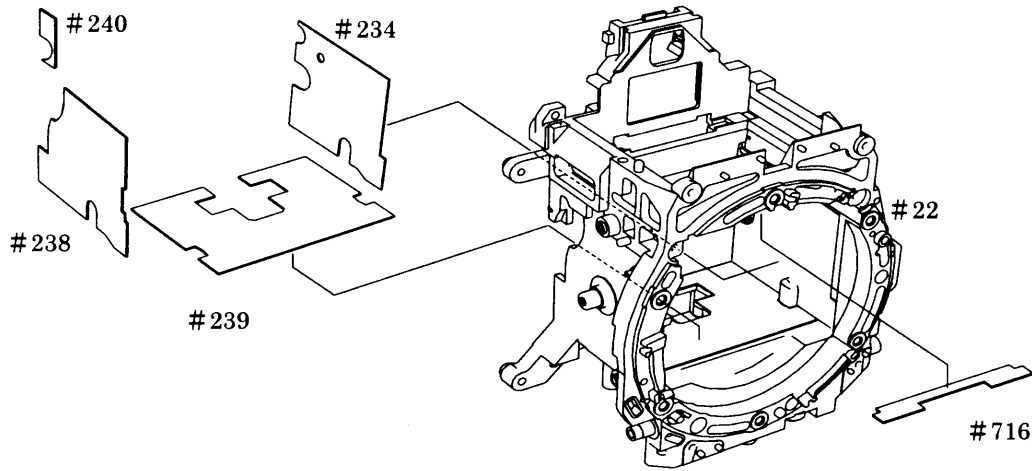
MOUNT THE FRONT BODY TO THE REAR BODY	A 1 7
INSPECTION & ADJUSTMENT OF BODY BACK	A 1 7
BACK DOOR OPEN/CLOSE AREA	A 1 9
TOP COVER	A 1 9

MAIN CONDENSER	A 2 2
FRONT COVER, GRIP COVER	A 2 2
ADJUSTMENT THROUGH PC	A 2 3
AF/AE ADJUSTMENT	A 2 4
BACK DOOR	A 2 5
BOTTOM COVER	A 2 6
ADJUSTMENT OF OPENING IN SB PART	A 2 6

ASSEMBLING/ADJUSTMENT

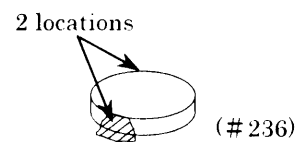
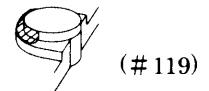
1. FRONT BODY

MIRROR HOLDER

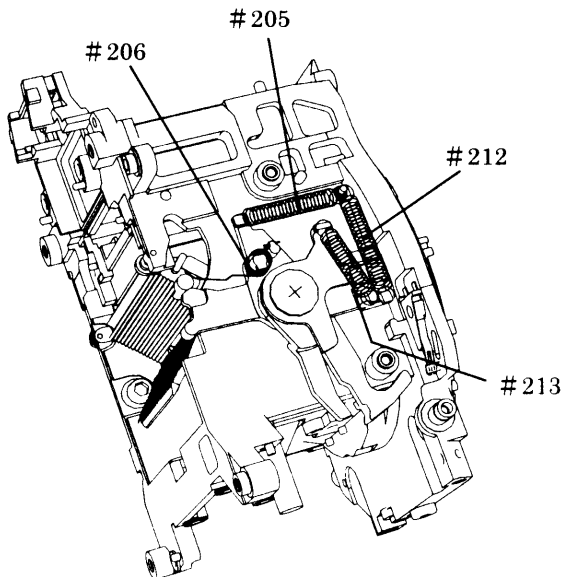
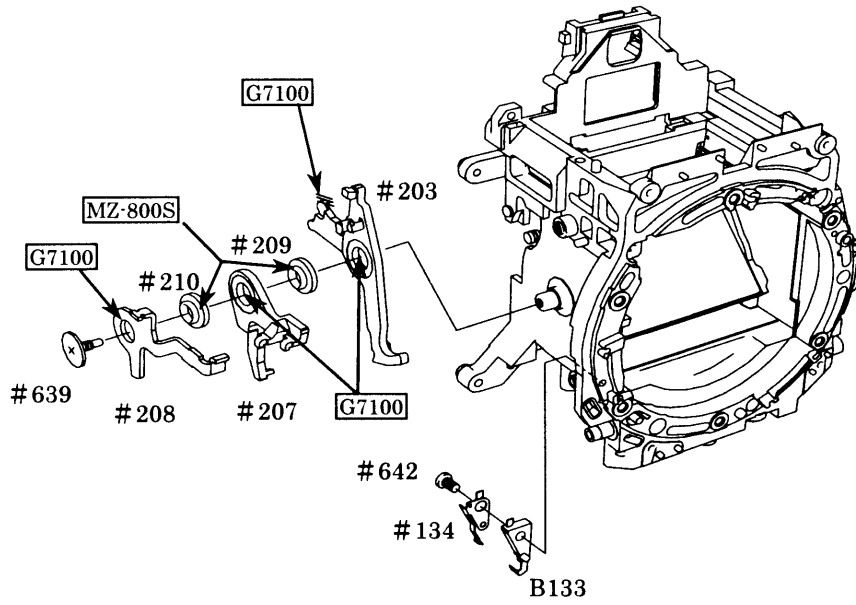


Note : Stand the mirror up and assemble the sub-mirror deflection pin # 236 into the front body # 22.

• Where C-8080B is applied

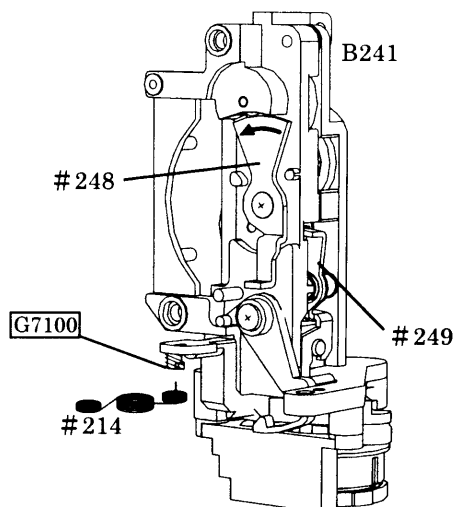


APERTURE CONTROL LEVER, F min SW

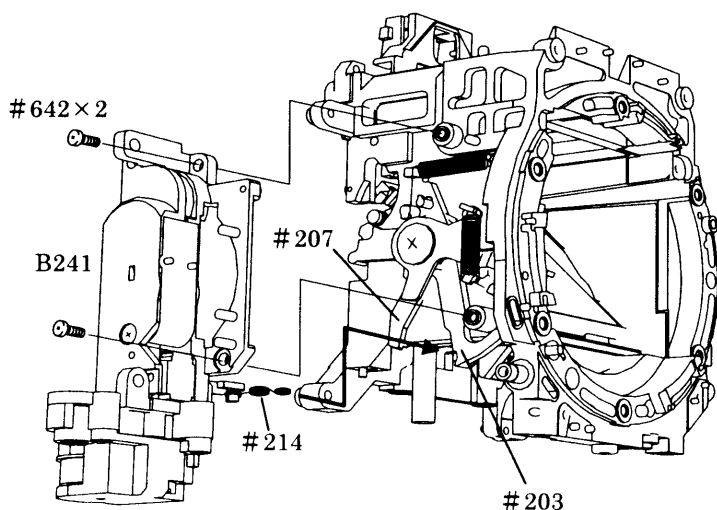


- Order of setting springs
- Set the springs in order of #260
- #205 · #212 · #213.

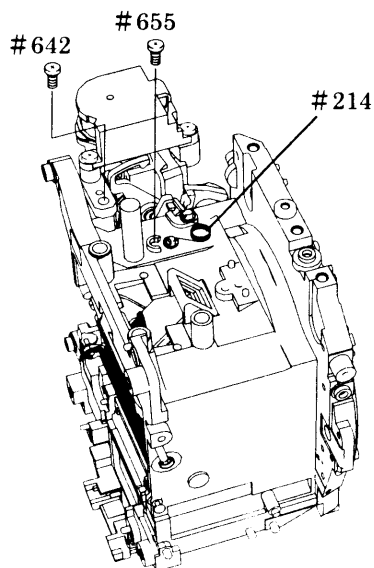
APERTURE CONTROL BASE PLATE



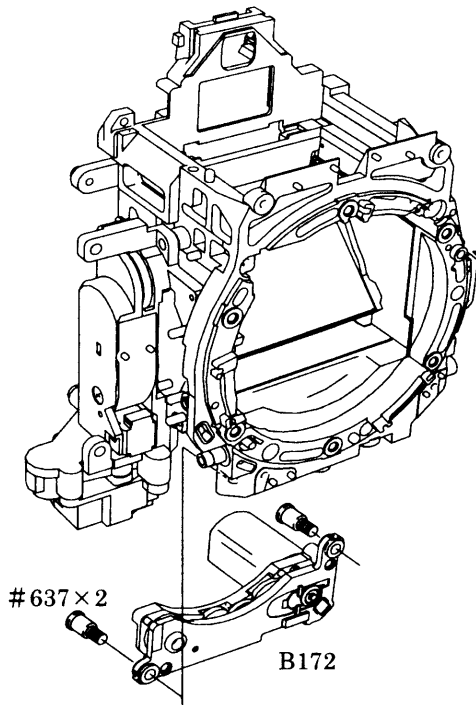
- ① Set the spring #214.
- ② Move the lever #248 in an arrow direction to touch the limit.
- ③ Push the #249 to lock the lever #248.



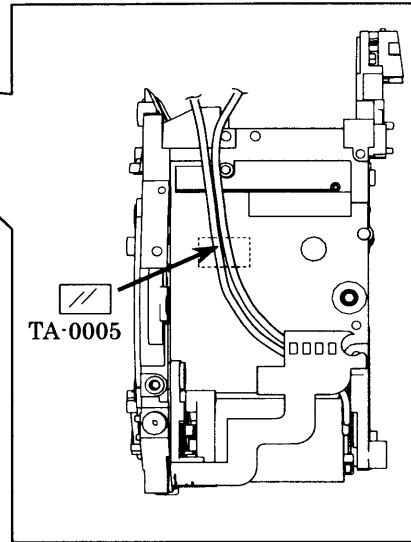
- ④ Attach B241 so that the spring #214 comes between the mirror up lever #203 and #207.



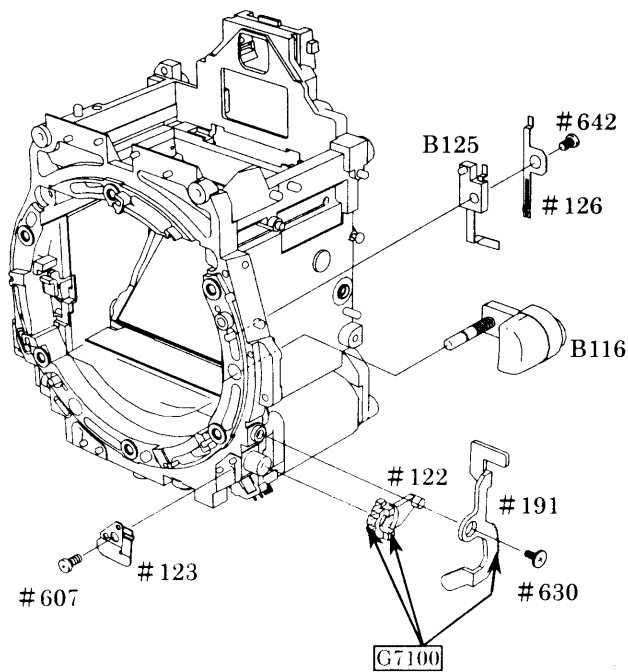
AF DRIVING UNIT



• After attaching the AF driving unit, arrange the wires of the AF motor as shown Figure below.

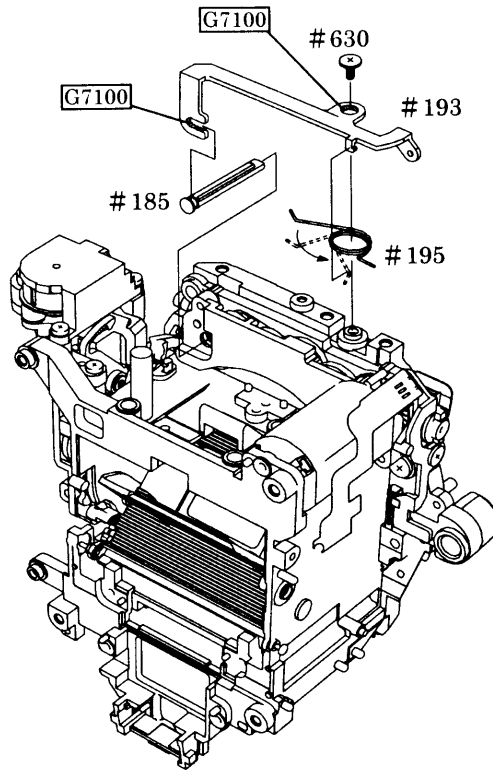


LEVER #191, A/M SW

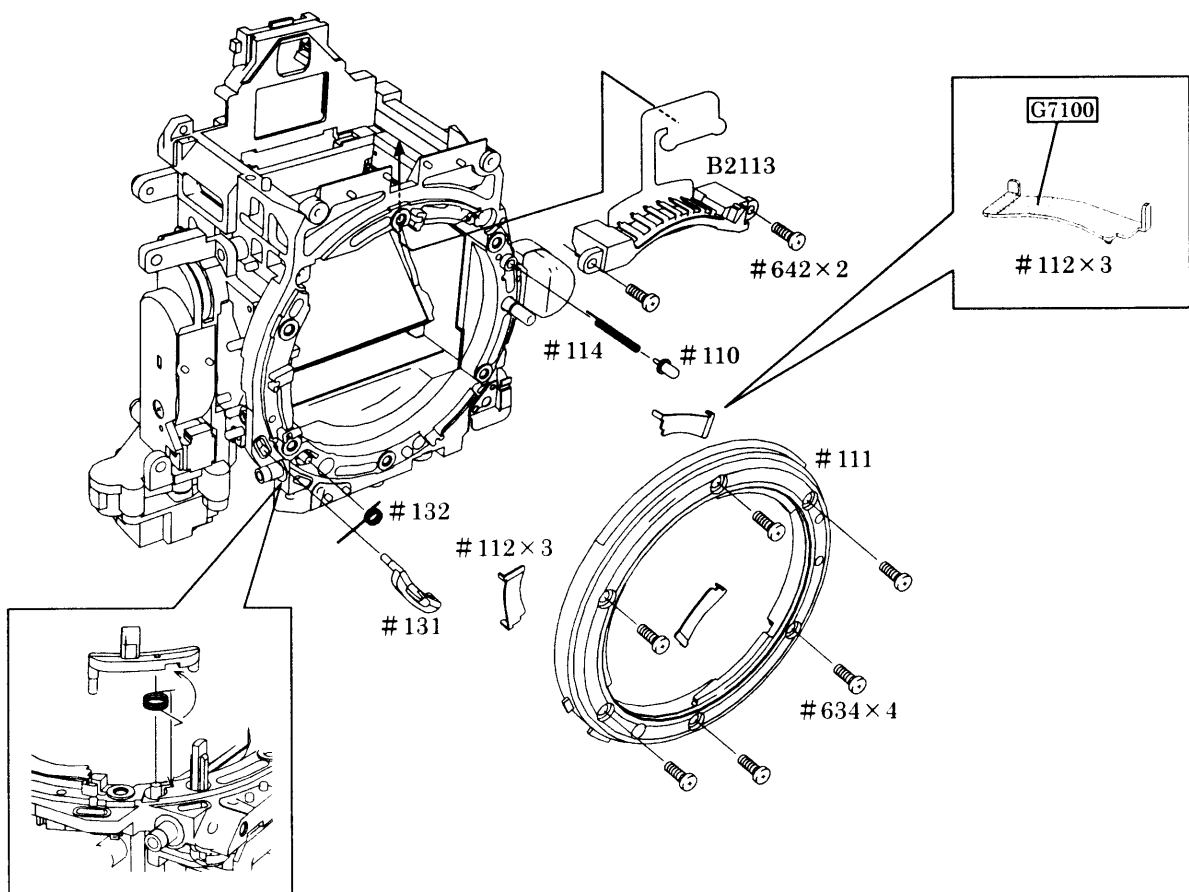


• Order of attaching
 B116 - #122 - #191 - #630
 B125 - #126 - #642 - #123
 - #607

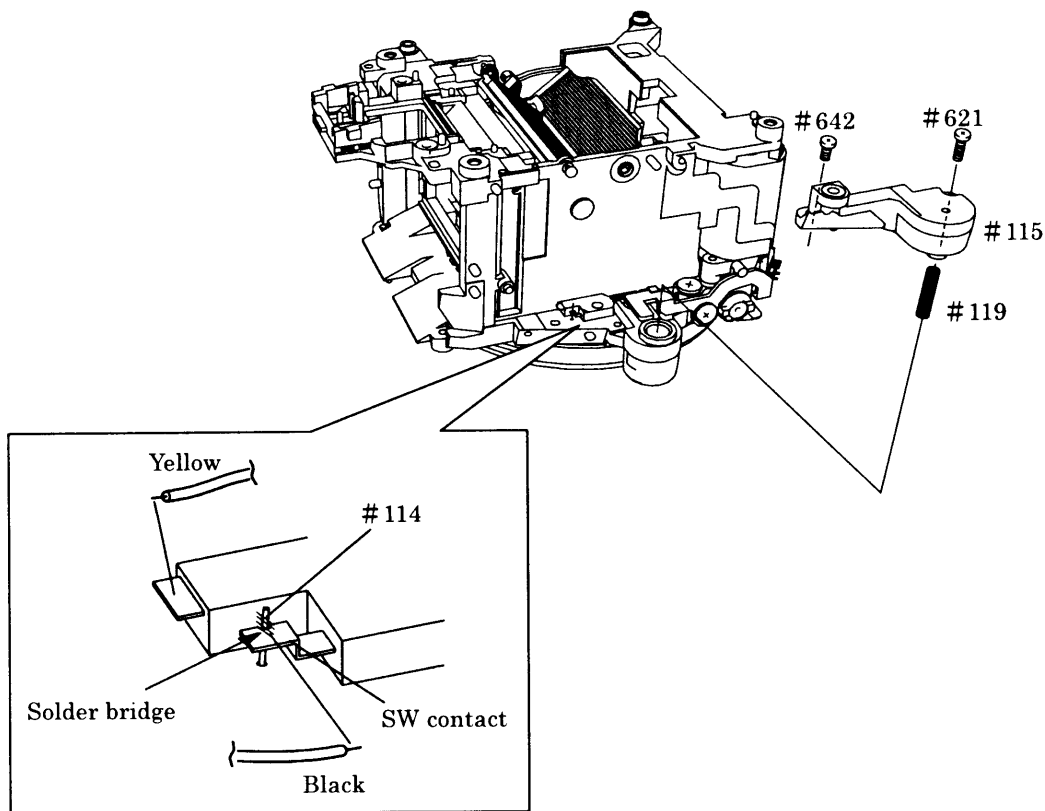
HORIZONTAL AF LEVER UNIT



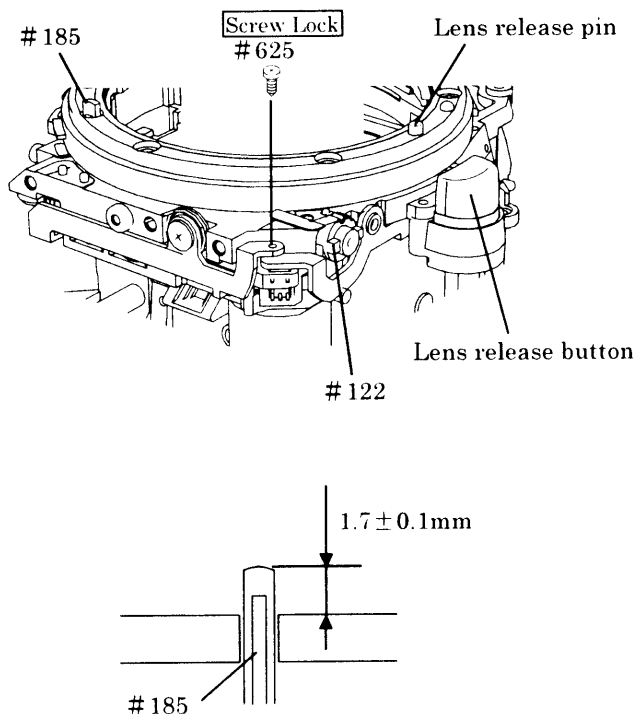
BAYONET MOUNT



LENS RELEASE BUTTON GROUP

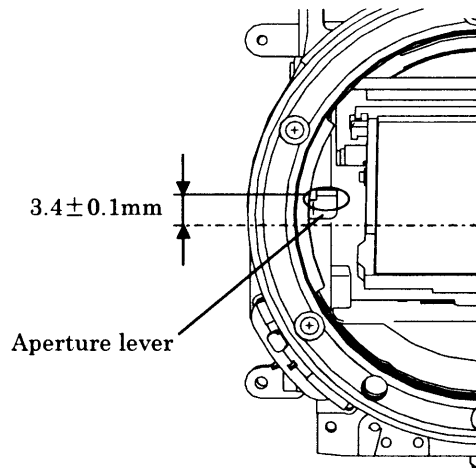


HEIGHT ADJUSTMENT OF AF COUPLING SHAFT



- ① Set the A/M change-over cam # 122 to "AF". After pressing the lens quick-disconnect button two or three times, measure the height of the AF coupling shaft # 185.
- ② Adjust the height of the AF coupling shaft using screw # 625.
- ③ The AF coupling shaft should not protrude over the lens mount surface, when the height of lens release pin is adjusted to 0.4mm.
- ④ After adjusting, secure screw # 625 using Screw Lock.

ADJUSTMENT OF APERTURE LEVER POSITION

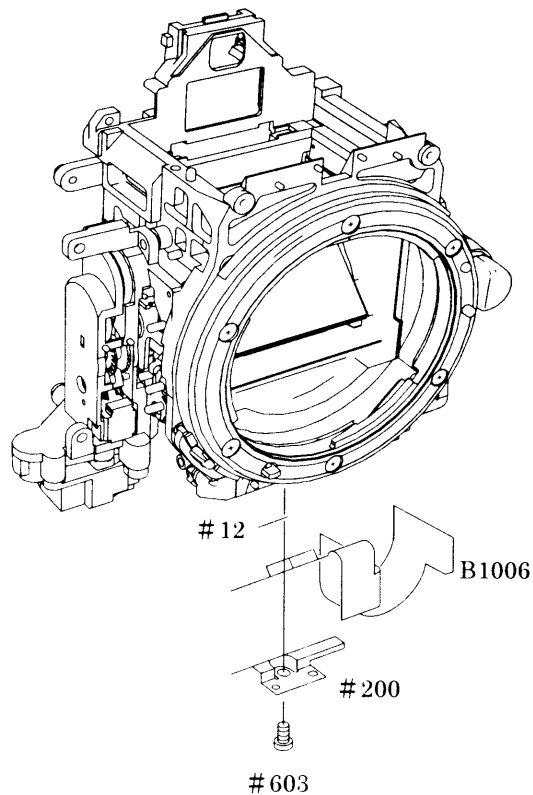


● Measure the height of the aperture lever using tool J18004.

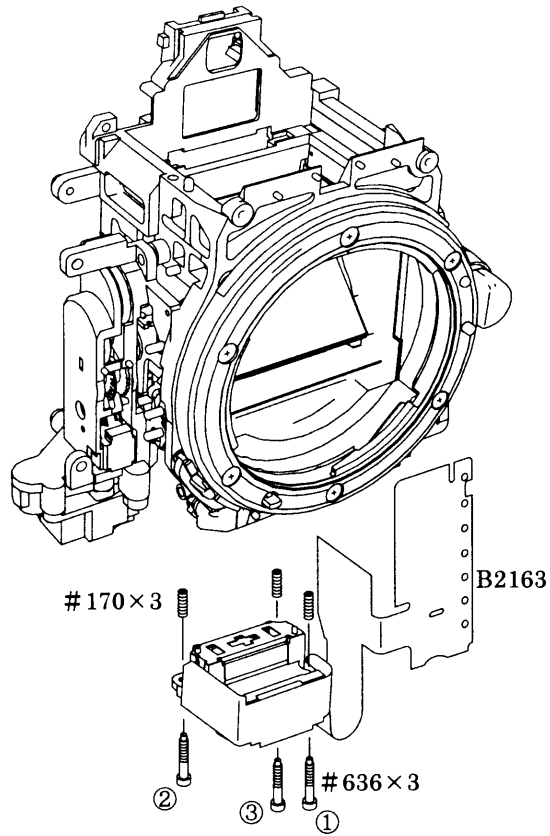
Standard value: $3.4 \pm 0.1\text{mm}$

If the height of the aperture lever is out of the standard value, bend the circled position to adjust. While adjusting, take care not to bend the inside lever and stopper portion.

TTL FPC UNIT

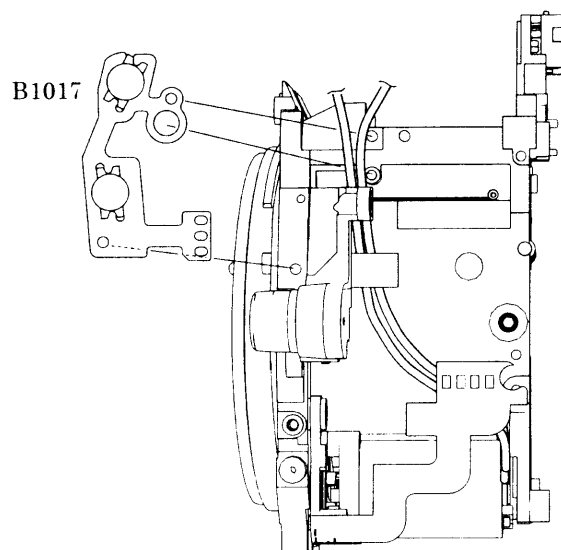


AF SENSOR UNIT

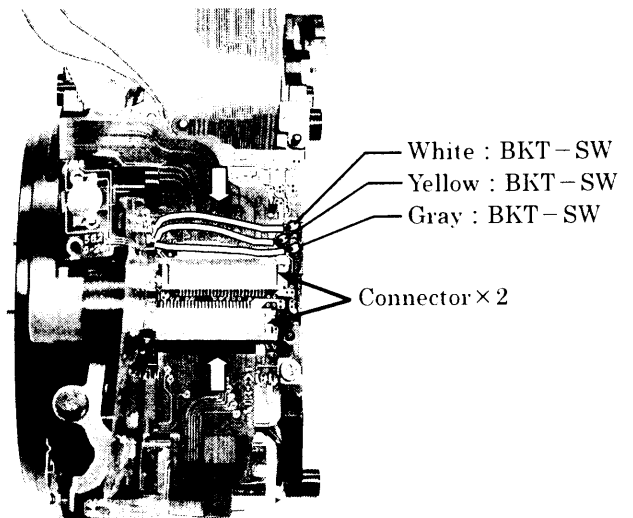
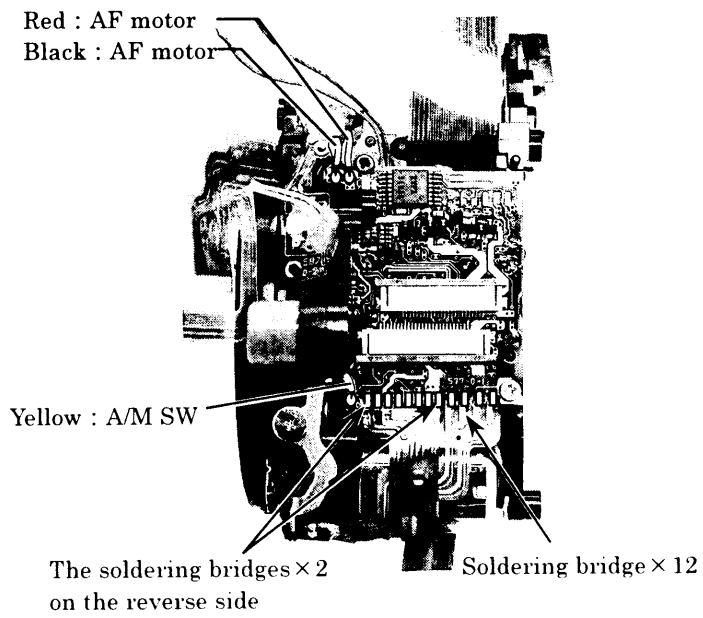
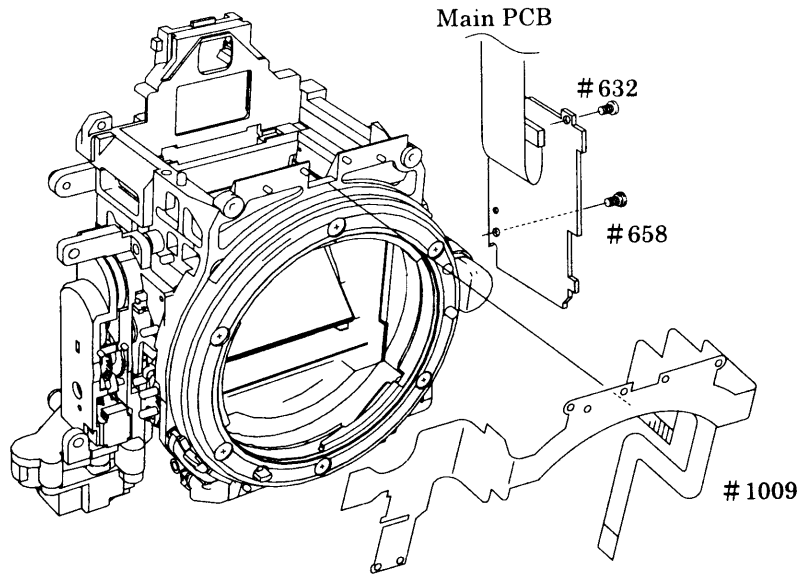


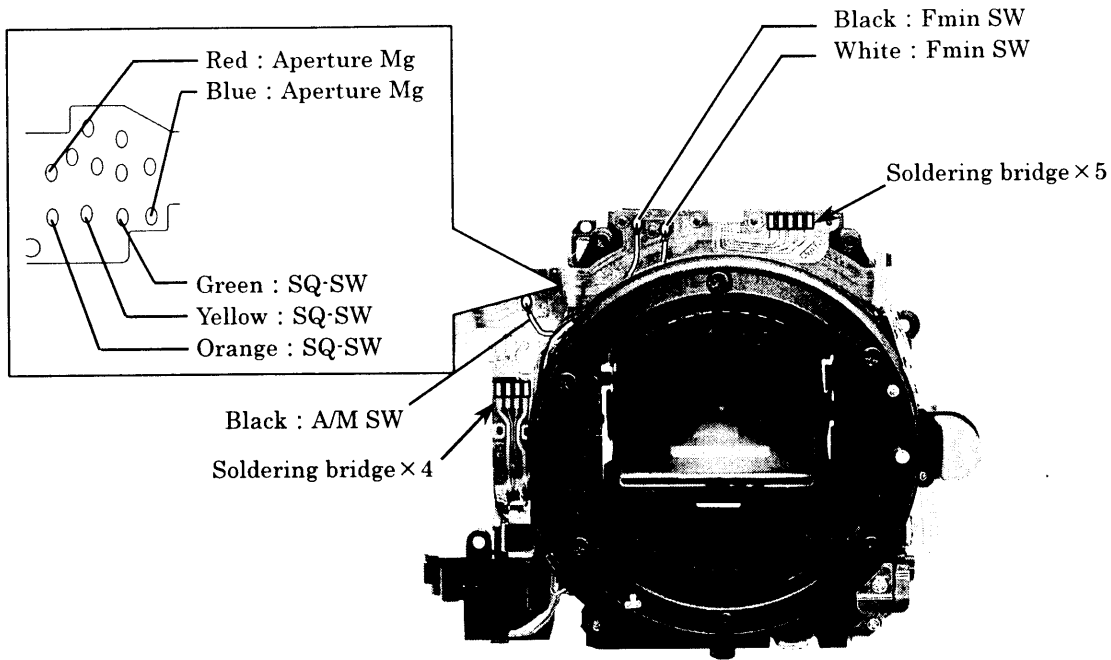
- Tighten the screw # 636×3 in order of ① to ③ by the hex key to the end, and then rotate them about 2 revolutions back.

SB/BKTSWFPC

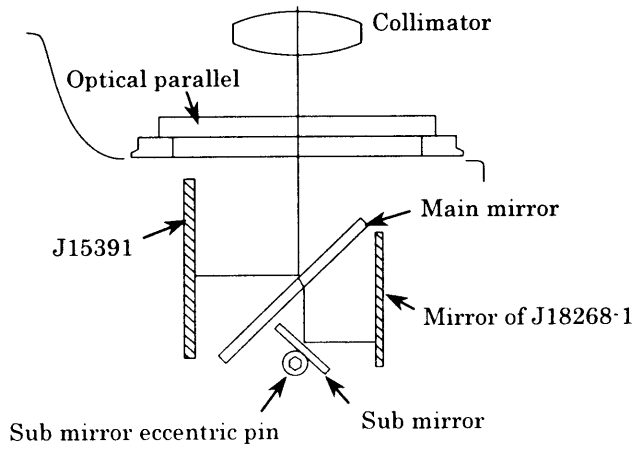


MAIN PCB





ANGLE ADJUSTMENT OF MAIN MIRROR AND SUB MIRROR TO 45°



* Use tools

1. Angle inspection of main mirror
 - ① Collimator (J19002)
 - ② Mirror angle inspection mirror (J15391)
 - ③ Optical parallel (J18037)
2. Angle adjustment of sub mirror
 - ① Collimator (J19002)
 - ② Sub mirror angle adjustment tool (J18268-1)
 - ③ Hexagonal Wrench

● Angle inspection of the main mirror to 45°

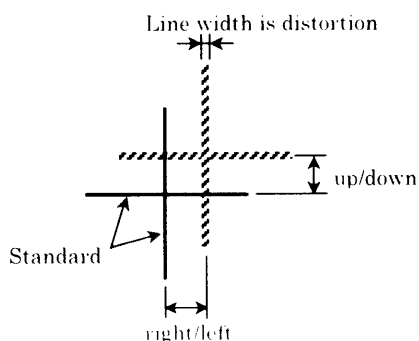
Note : This camera does not have an eccentric pin for the main mirror.

- If the difference on the top, bottom, right and left is out of standard, the mirror unit B2231 might be defective or the mirror shaft might be bended.

● Angle adjustment of the sub mirror to 45°

Note : Check accuracy by moving the main mirror up and down for a few times before and after the adjustment.

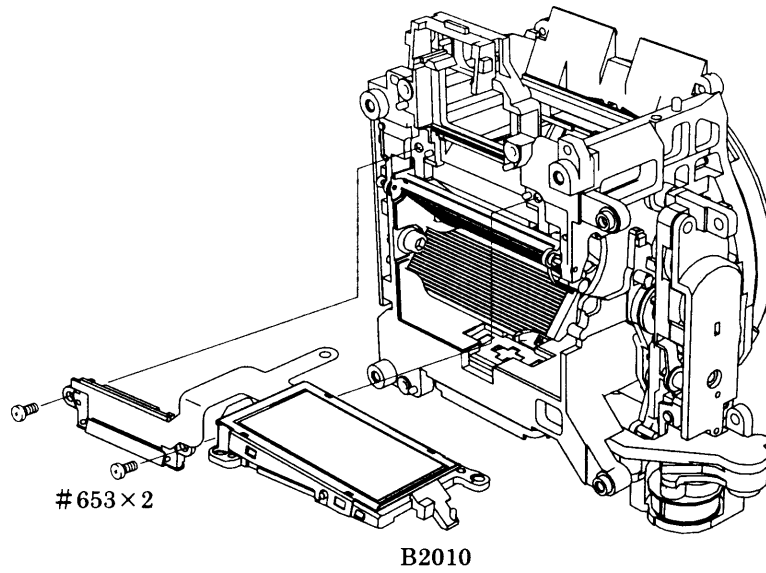
- Check the difference on the top and bottom. If it is out of standard, adjust the angle by rotating the eccentric pin for sub mirror.



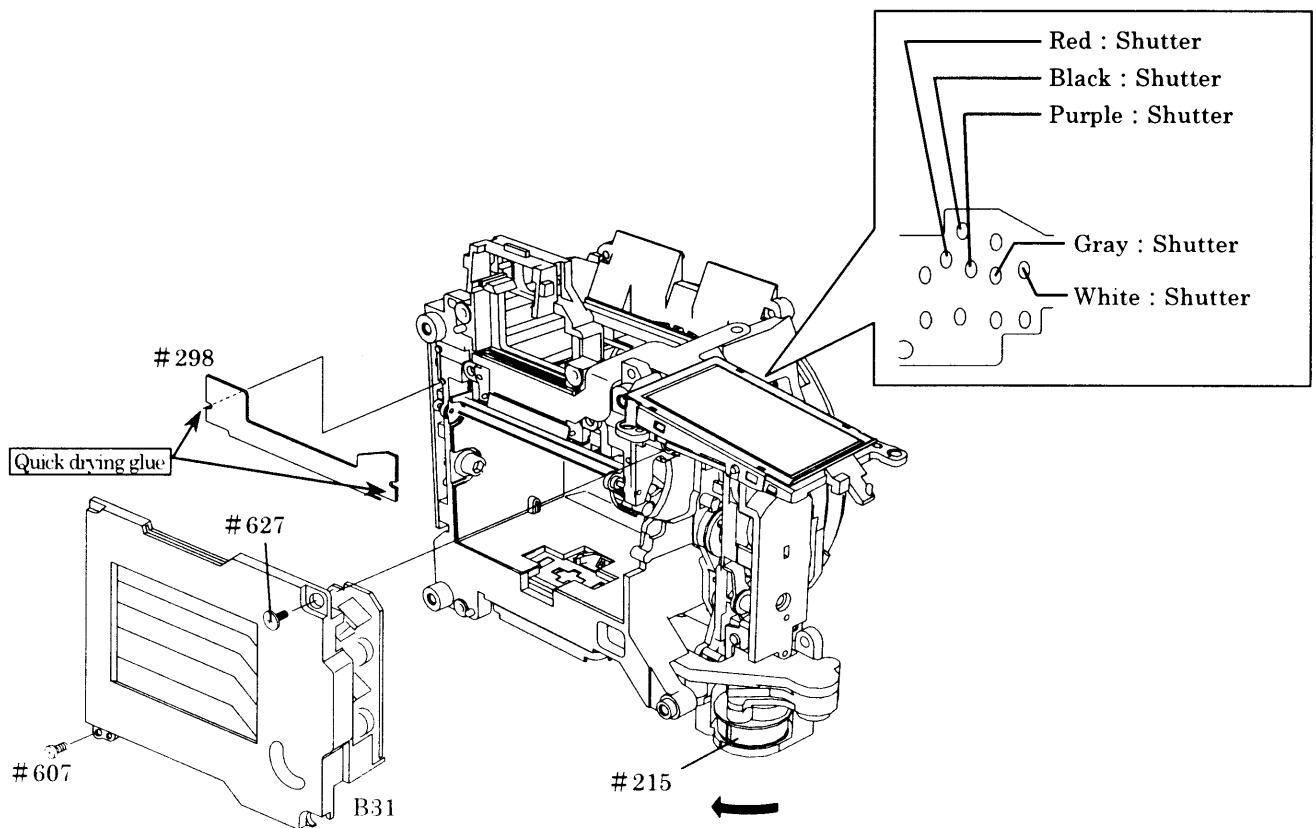
Standard :

	Main mirror	Sub mirror
Discrepancy (right/left)	Within ± 20'	
Discrepancy (up/down)	Within ± 15'	Within ± 5'
Distortion	Within ± 8'	Within ± 8'

LCD DISPLAY UNIT



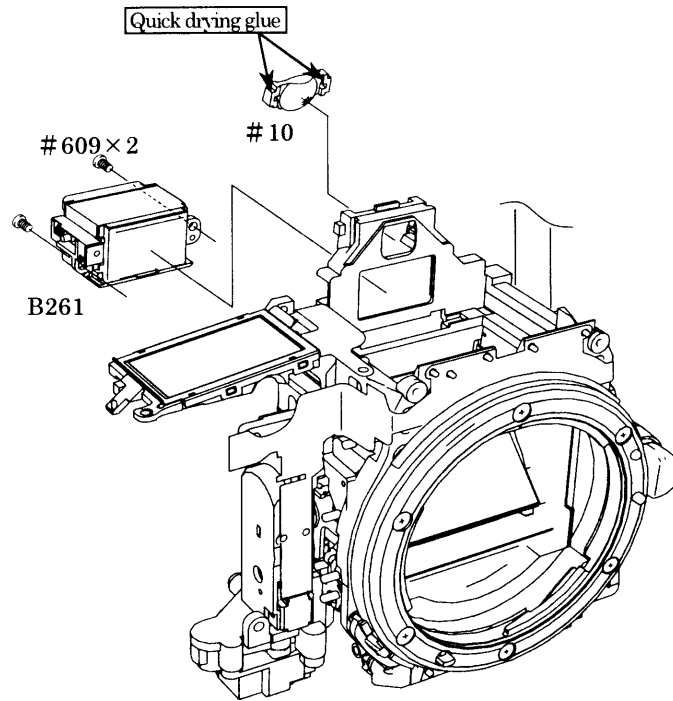
SHUTTER



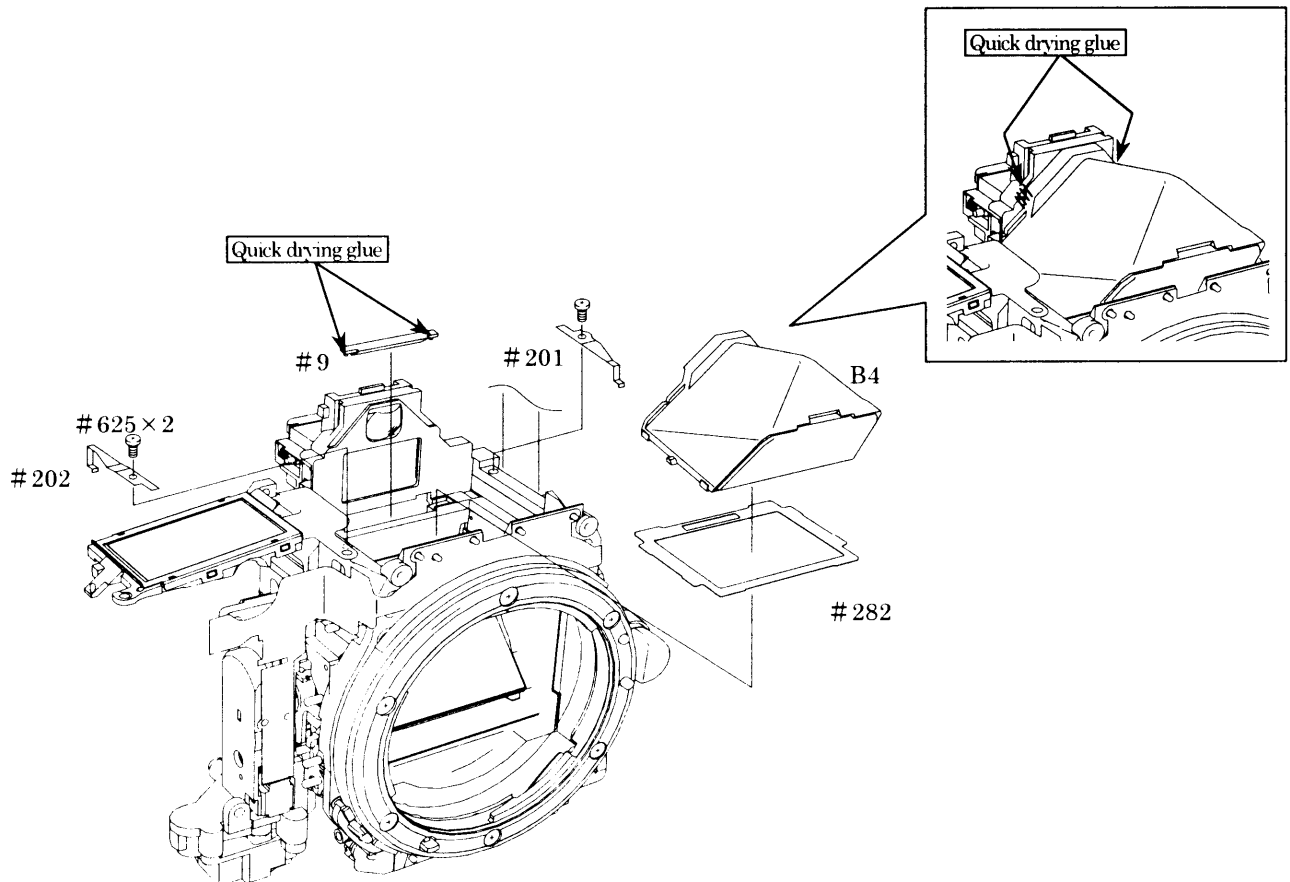
- ① Attach the light baffle plate #298.
- ② Rotate the gear #215 in an arrow direction to make the mirror up.
- ③ Attach the shutter.
- ④ Rotate the gear #215 to make the mirror down.

Note : After adhesive becomes completely dry, attach the shutter.

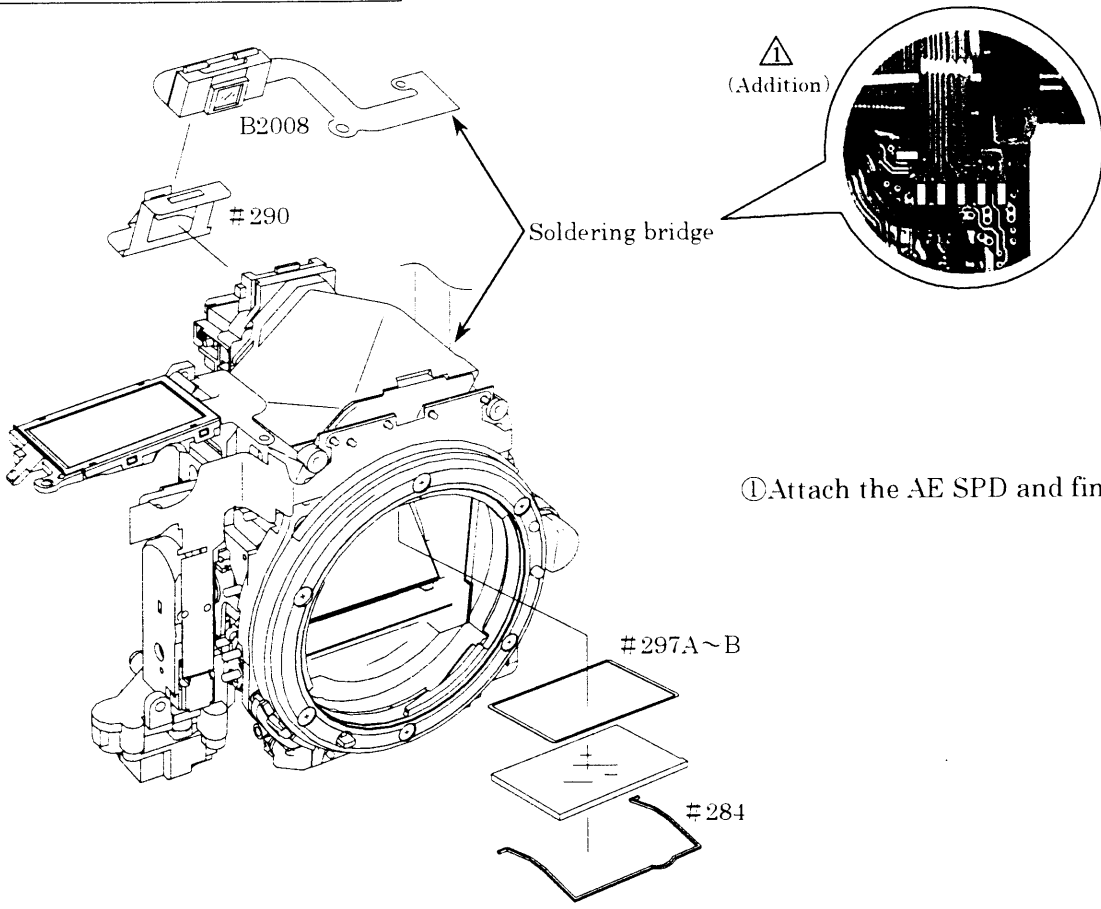
EYEPiece LENS UNIT



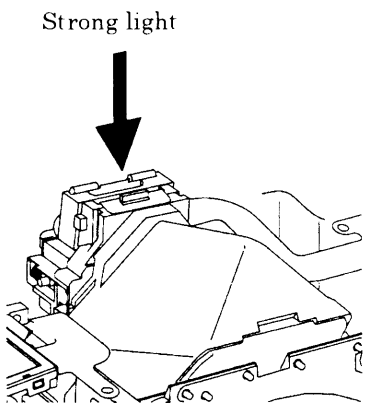
PENTAPRISM GROUP



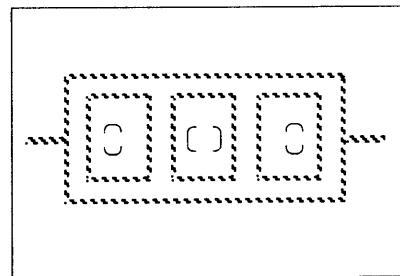
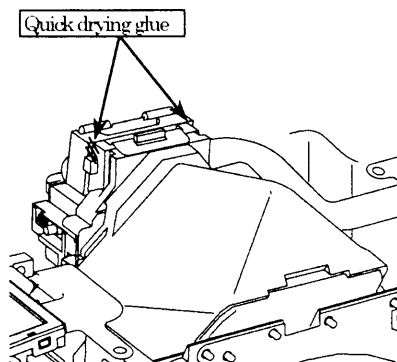
AE SPD POSITION ADJUSTMENT



① Attach the AE SPD and finder screen.



- ② Shade the eyepiece lens and the shutter side of the mirror box by using a piece of black tape, etc.
- ③ Give strong light from the upper side of the AE SPD as shown Figure on the left to reflect the pattern of AE SPD on the main mirror.
- ④ Set the focus frame of the screen and the pattern of AE SPD as shown in Figure below.

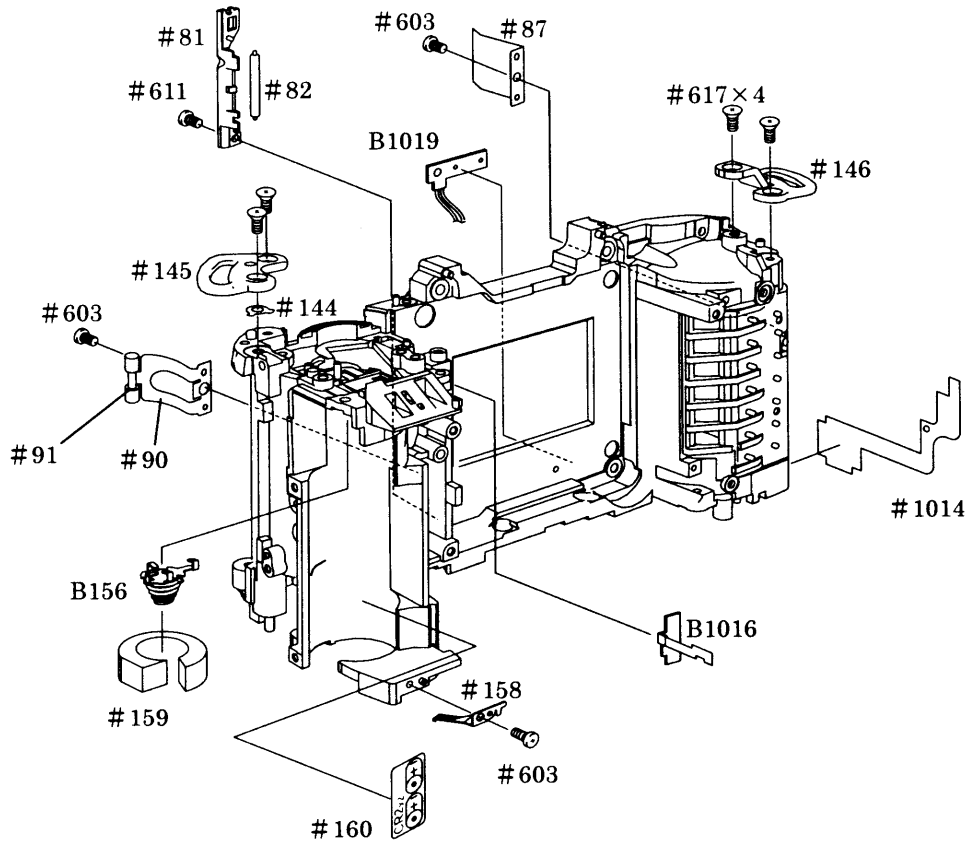


⑤ Fix the AE SPD holder to the mirror box with quick dry glue.

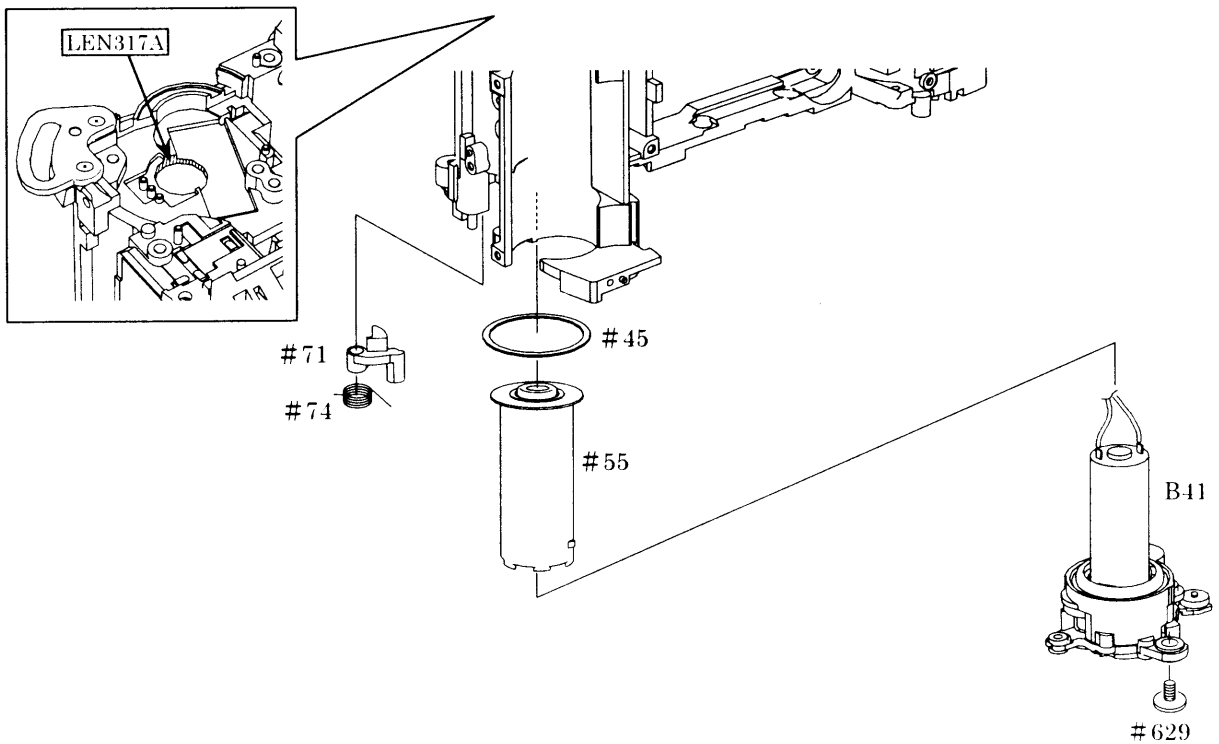


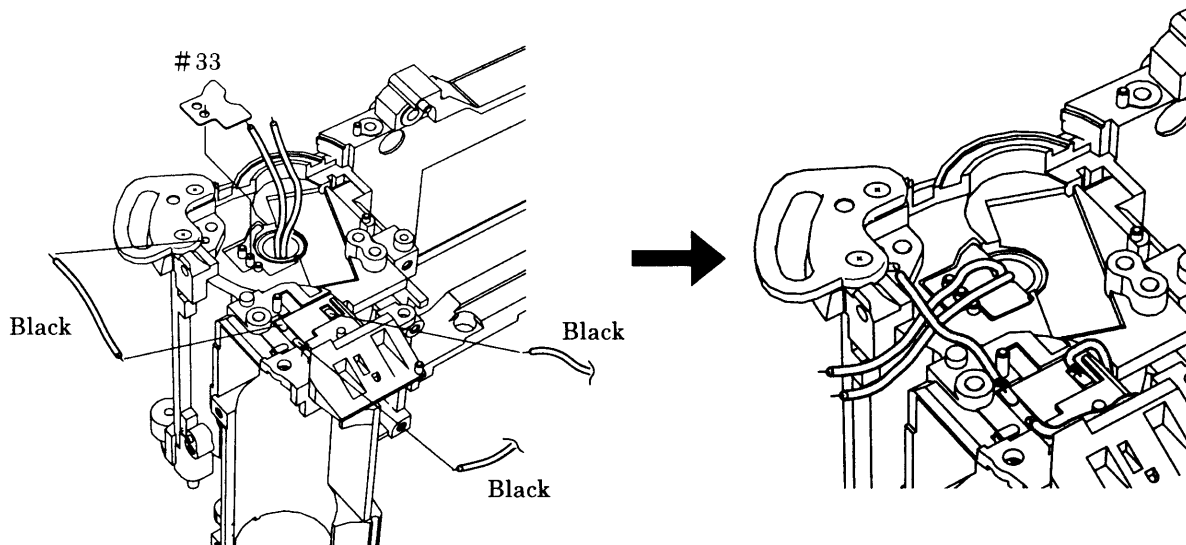
2. REAR BODY

SMALL PARTS REAR BODY

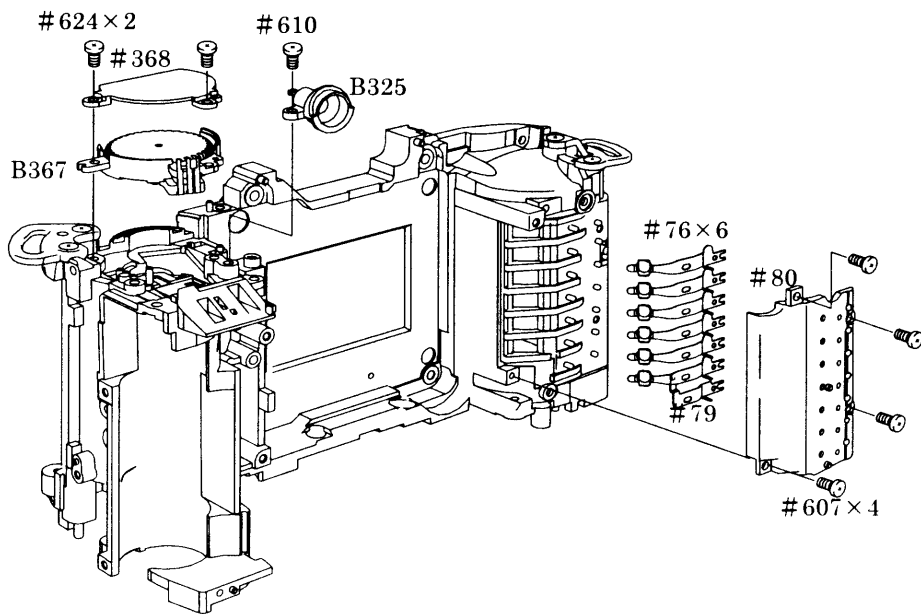


FILM ADVANCE UNIT

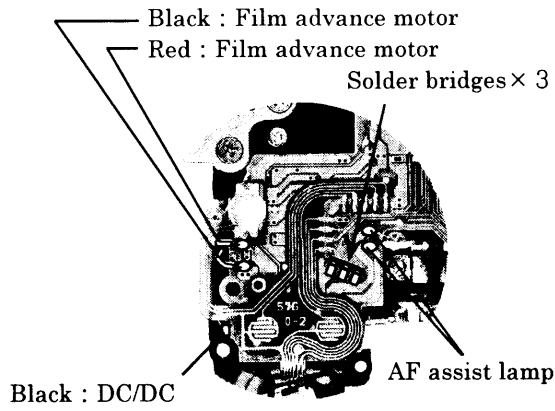




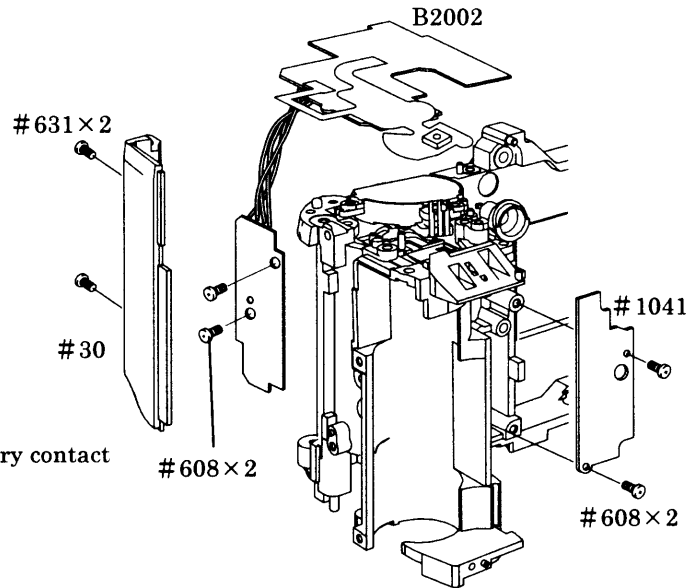
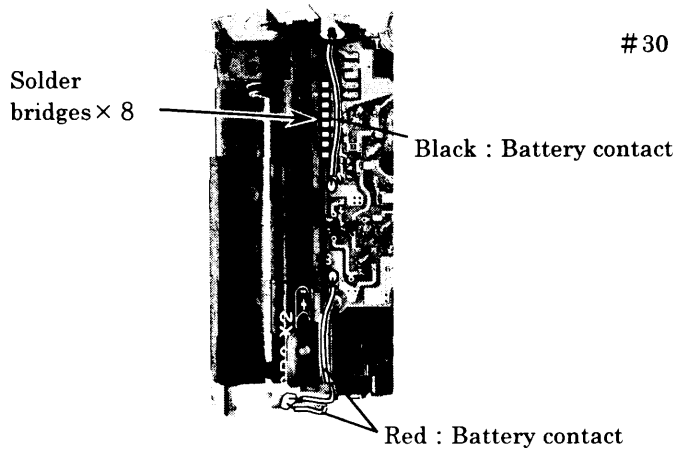
COMMAND DIAL, DX CONTACT



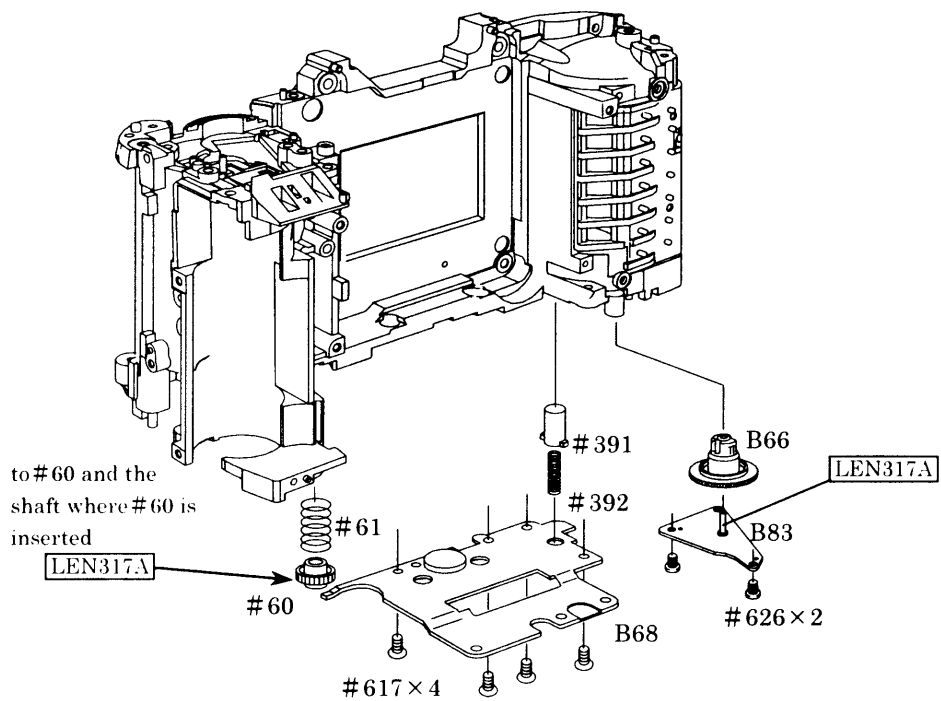
SB UNIT, DC/DC UNIT, SUB PCB



Note : AF assist lamp does not have polarity.



BOTTOM BASE PLATE

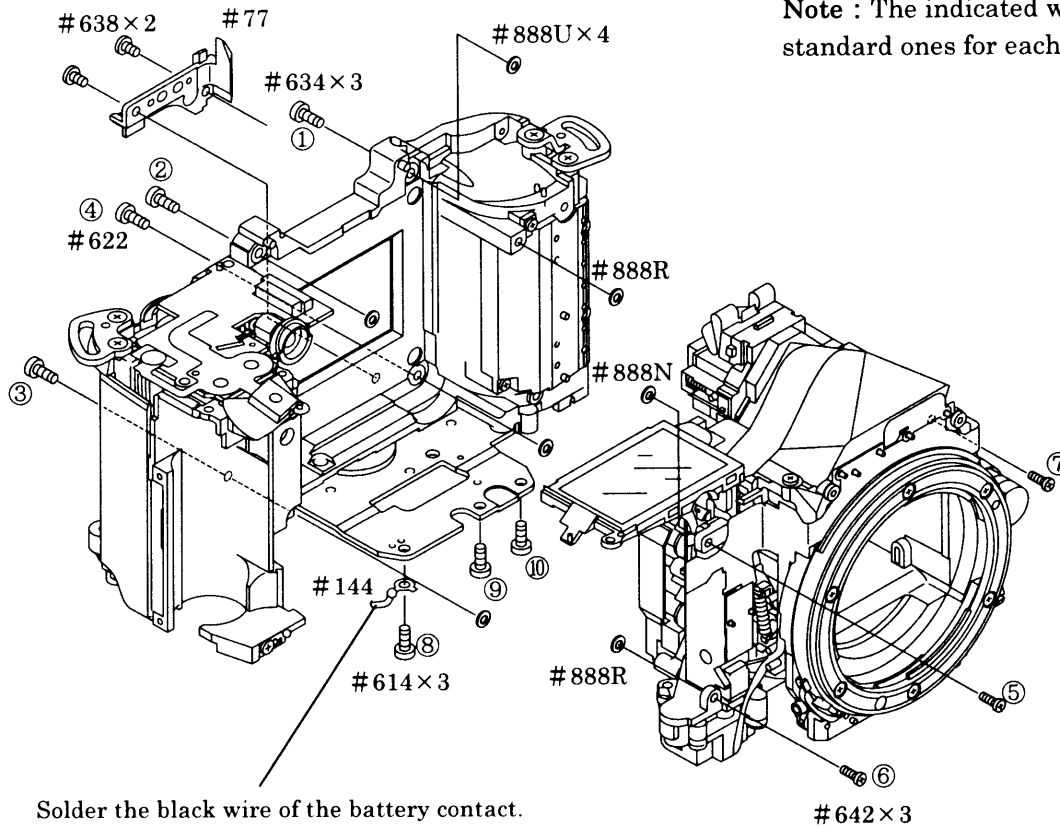


3. MOUNTING BOTH THE FRONT AND THE REAR BODY

MOUNT THE FRONT BODY TO THE REAR BODY

· Tighten the screws in order of ①-⑩.

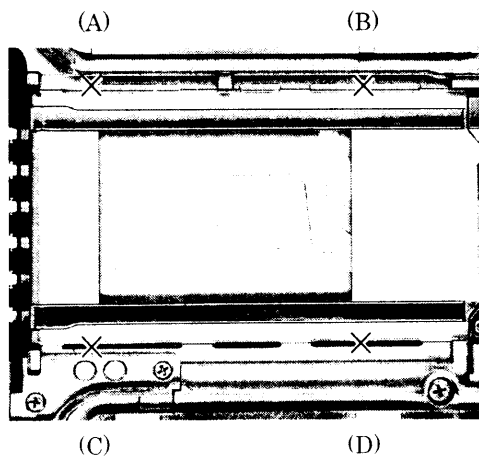
Note : The indicated washers #888 are the standard ones for each position.



Solder the black wire of the battery contact.

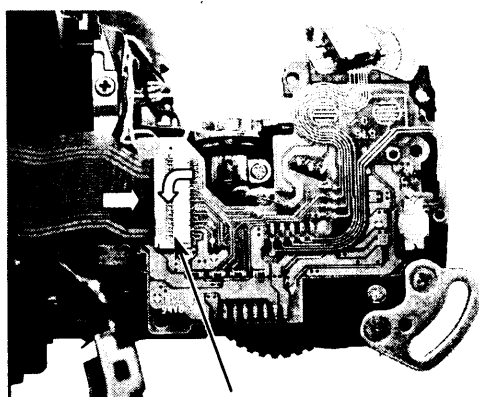
INSPECTION & ADJUSTMENT OF BODY BACK

Note : Take note (A) to (D) in order to the difference from the standard 46.67mm at AF adjustment after inspection and adjustment.

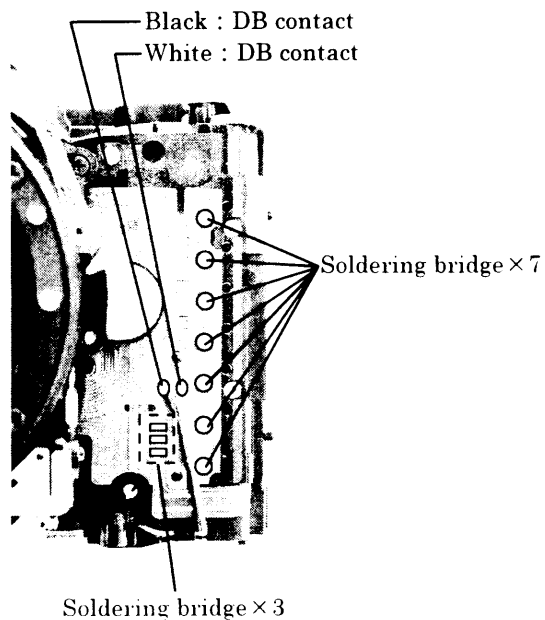
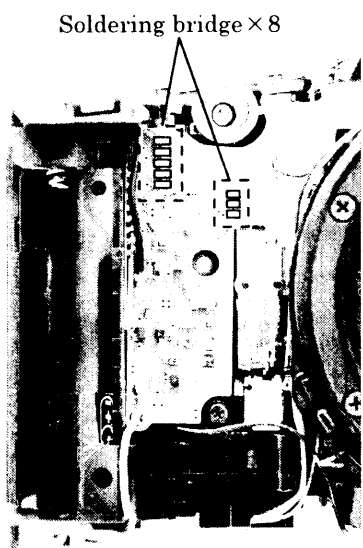
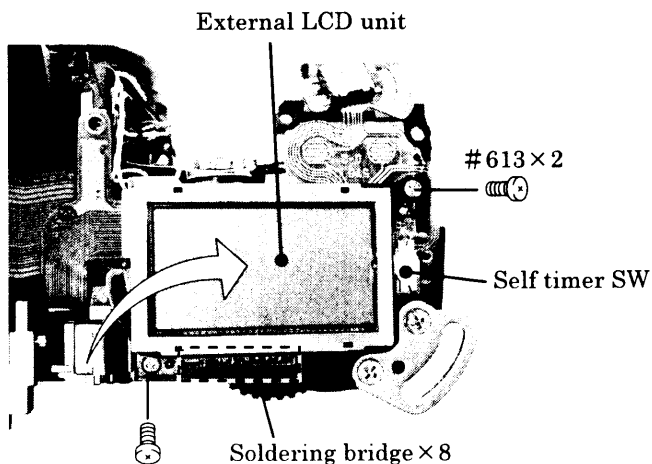


- Measure between the bayonet surface and the outer rail.
- × marking: Where to be measured
- Standard : 46.64±0.06mm / Tolerance for flatness: within 0.06mm
- If the measured value is out of standard, perform the adjustment by moving the front body and rear body by unfastening the screws on them.
Or adjust it by the washers between the front body and rear body.

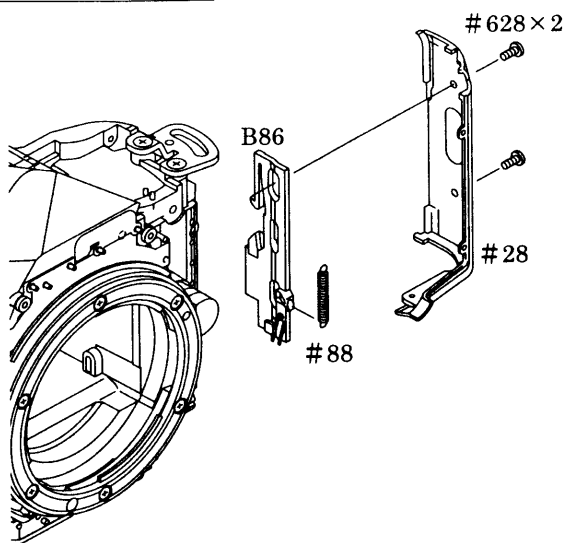
Connector, Soldering bridges



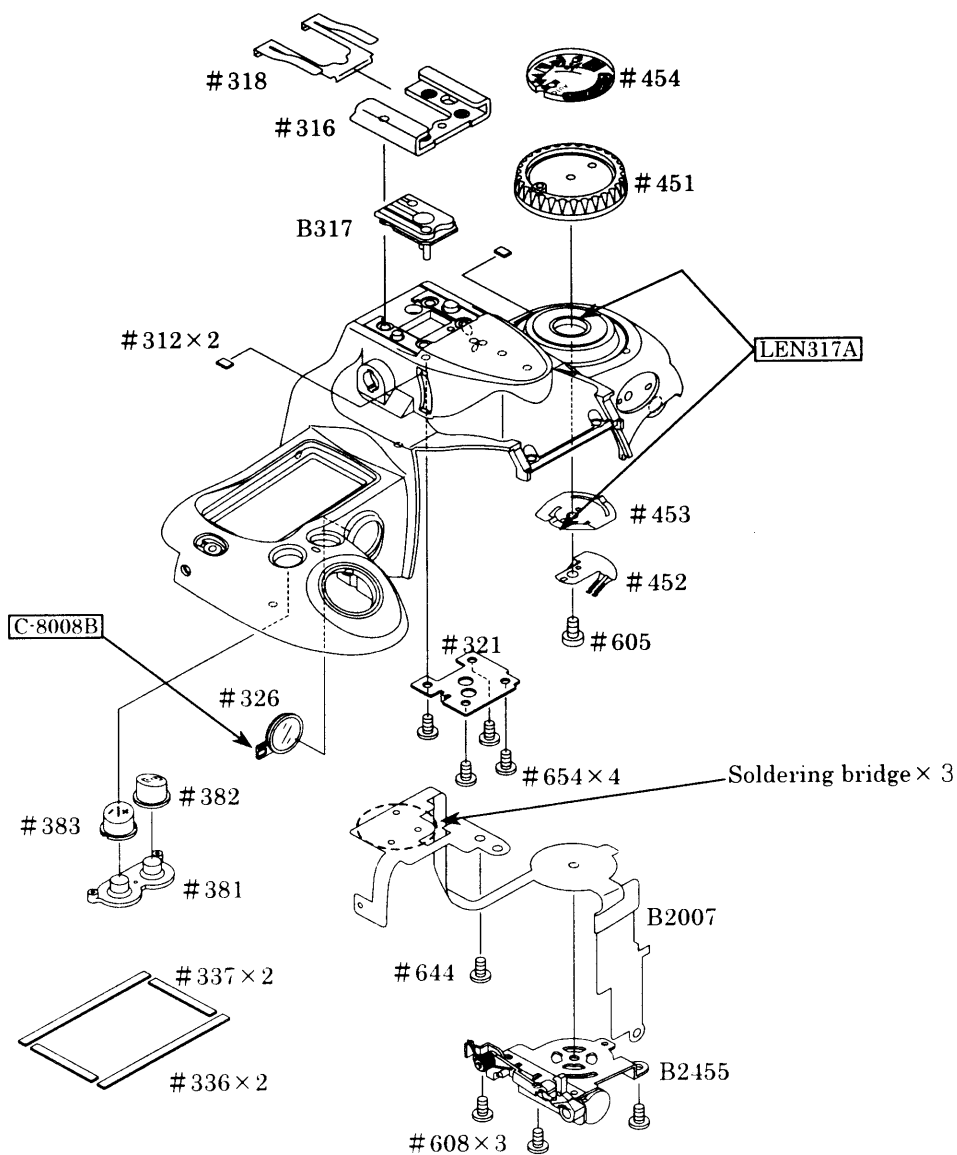
Connector

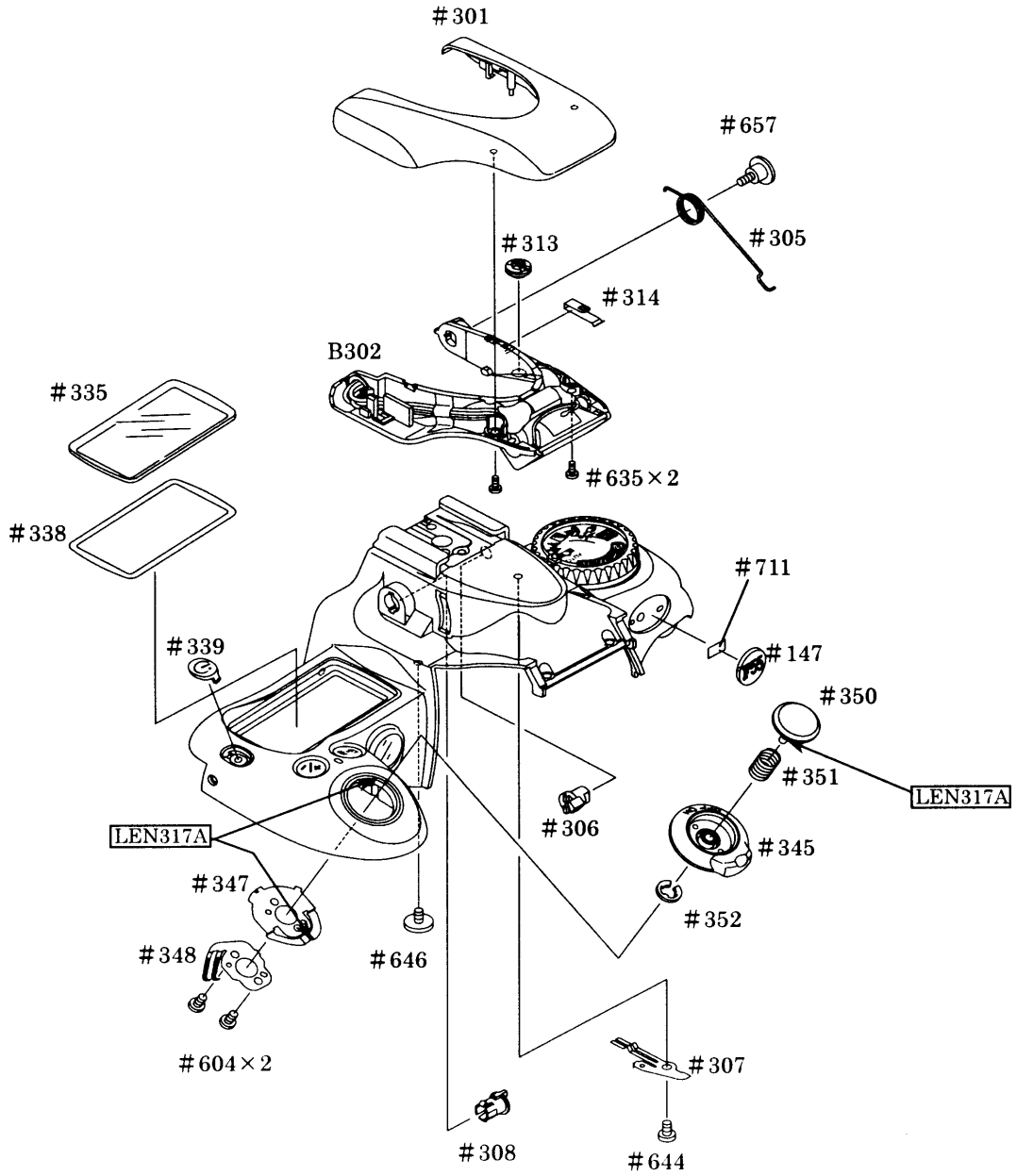


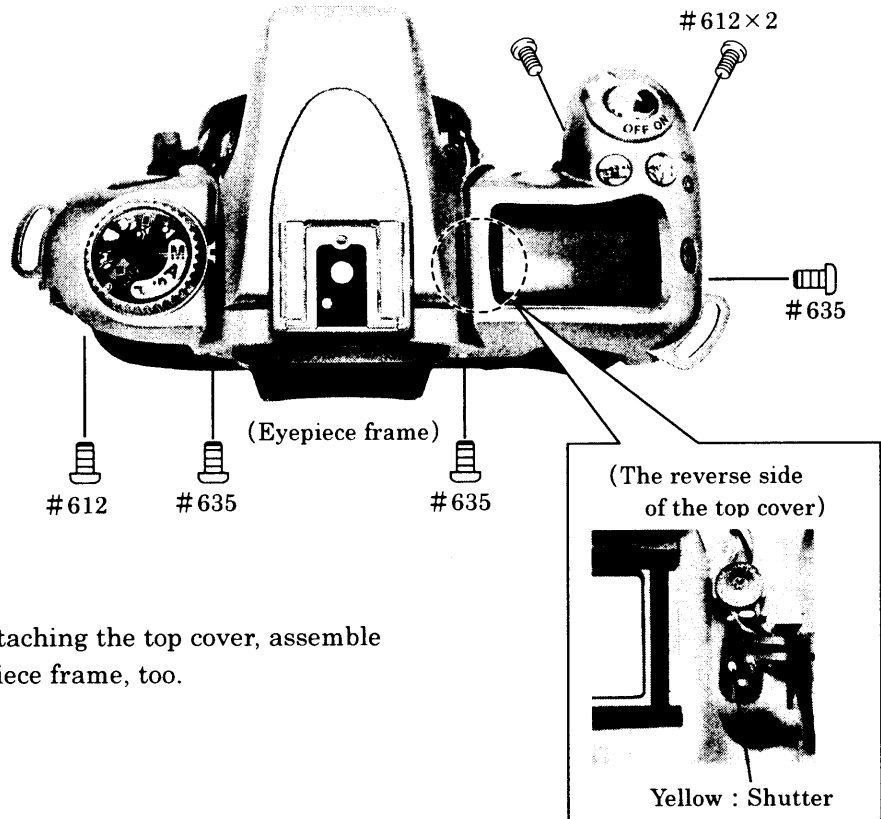
BACK DOOR OPEN/CLOSE AREA



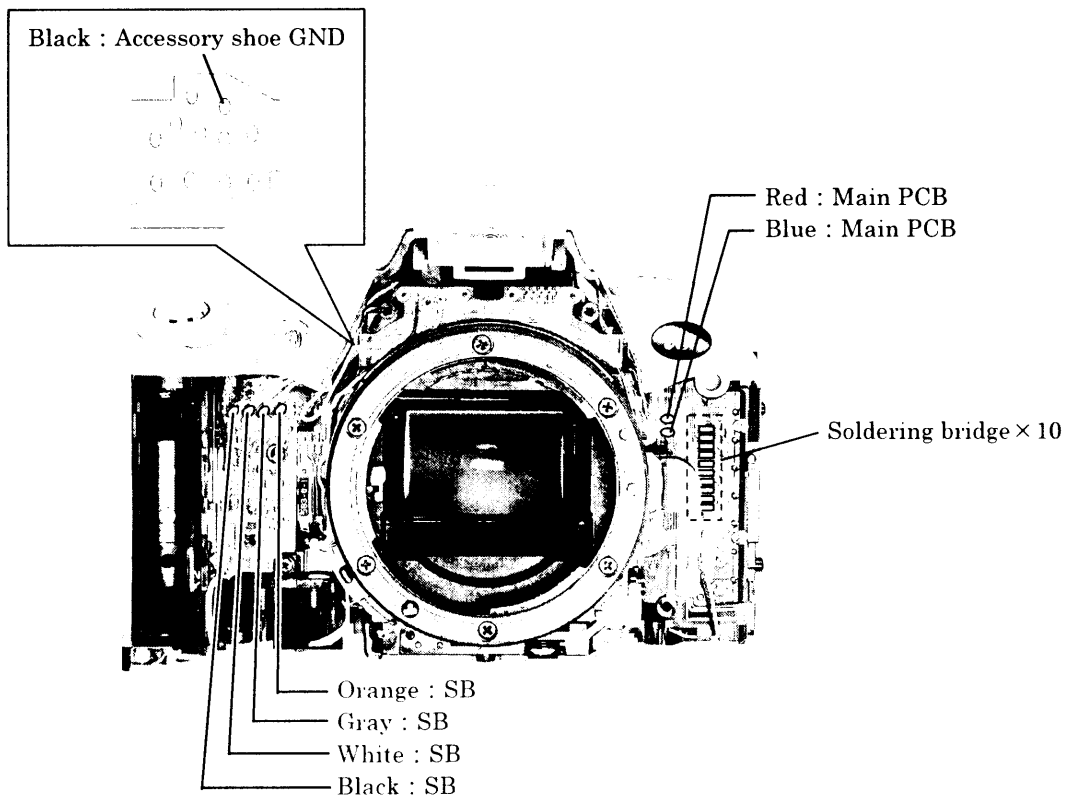
TOP COVER



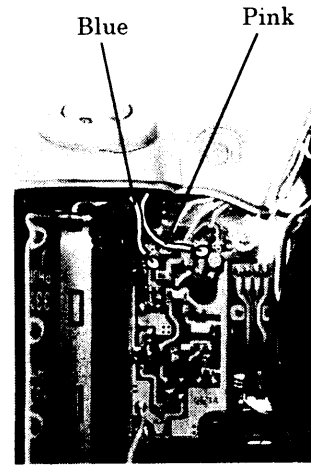
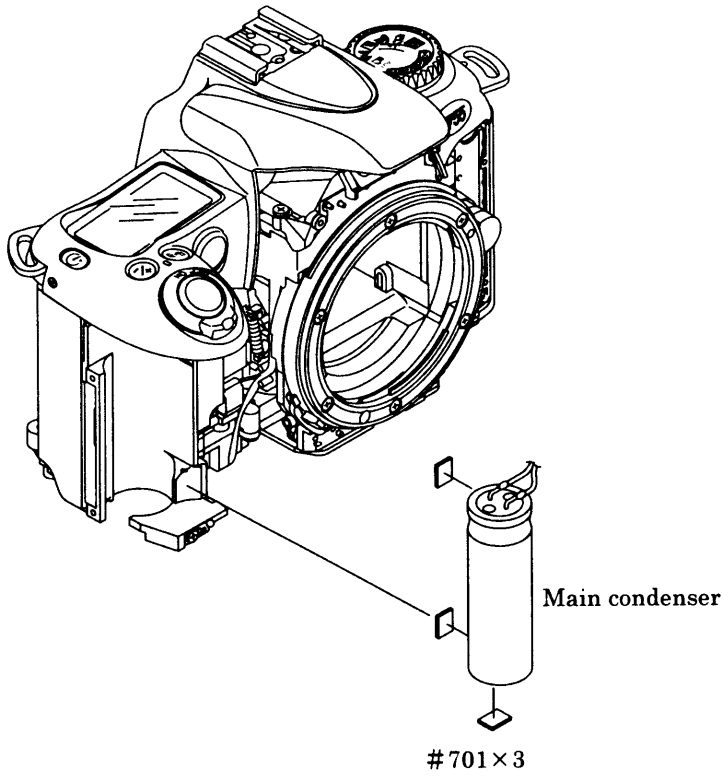




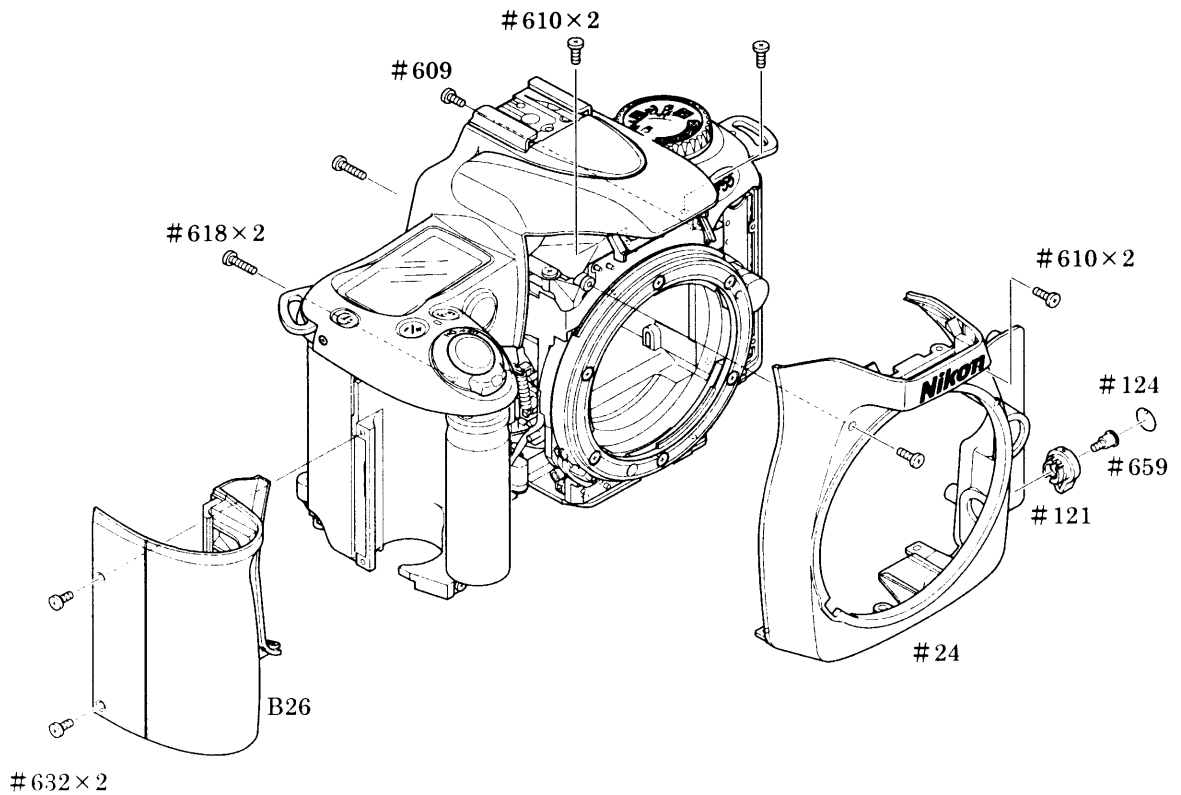
※When attaching the top cover, assemble the eyepiece frame, too.



MAIN CONDENSER

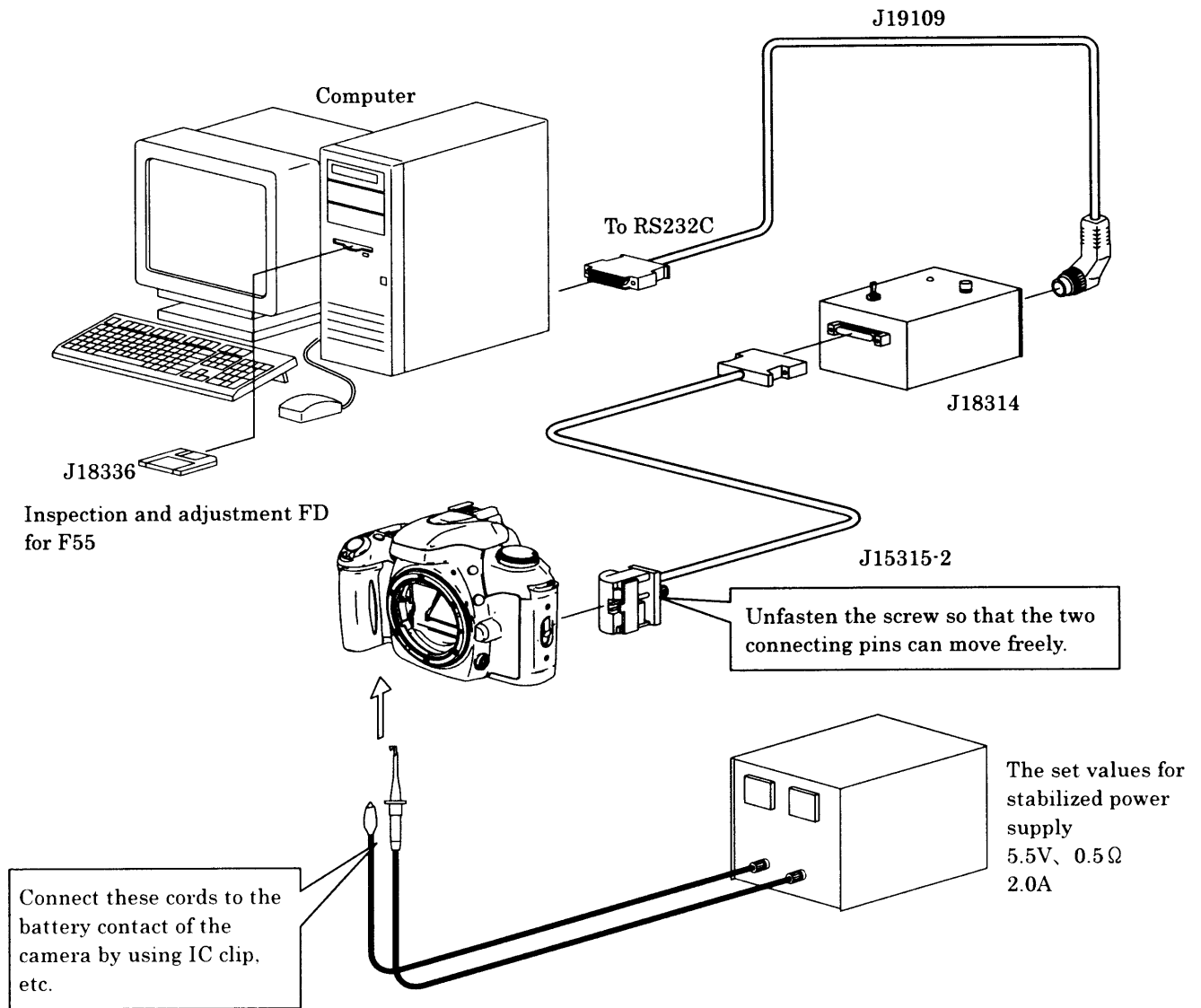


FRONT COVER, GRIP COVER



ADJUSTMENT THROUGH PC

9pin-25pin adapter is necessary for a computer with 9pin RS-232C terminal.
RJ is not available.



AF/AE ADJUSTMENT

- Note : ① Be sure to perform the AF adjustment first, then perform the AE adjustment.
- ② When using this adjustment software for the first time, prepare 5 units of F55 cameras to measure and obtain the average value of them at the AF accuracy inspection. Then input the average value of these measured 5 units in “WRITING OF AF ADJ. LENS OFFSET VALE” “ in the main menu.
- ※ If there is lens data for adjustment of F65, it is possible to make a file for F55 from the file for F65 at “WRITING OF AF ADJ. LENS OFFFSET VALUE” in the menu of adjustment software.

· AF ADJUSTMENT

[Inspection and adjustment items]

- ① Inspection and adjustment for the AF accuracy (whole item shall be adjusted)
- ② YAW, PITCH
- ③ LARK adjustment (include CCD output)
- ④ MBF adjustment

[Tool in use]

1. For adjustment of whole item:

The tool(s) used for the AE-oriented adjustment shall be utilized.

2. For check of the AF accuracy

- ① Z adjustment lens (J18266) for F5, F100, F80
- ② AF adjustment stand (J15259)
- ③ Z lens holder (J15280) or position conversion adapter (J15271) for tripod socket
- ④ AF chart (J18273) for F5, F100, F80
- ⑤ Lighting box (J15264) for high frequency

3. For adjustment of YAW, and PITCH

- ① The whole tool used for the check of AF accuracy just as mentioned above
- ② Adjustment tool for YAW, and PITCH (J18230)

4. For adjustment of LARK (include CCD output adjustment)

- ① The whole tool used for the check of AF accuracy just as mentioned above
- ② AF 50/1.4D lens

· AE adjustment




1. AE adjustment
2. Aperture adjustment
3. M 1/2000 adjustment
4. TTL adjustment
5. Battery check adjustment

Note : Be sure to utilize either “F90” or “N90” oriented camera’s shutter curtain.

Confirmation of the Battery check display mode

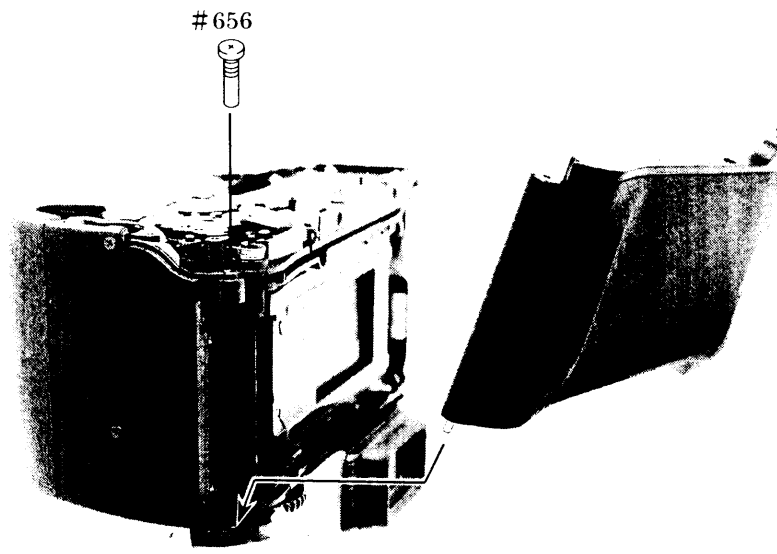
After adjusting the battery check, input below-mentioned each voltage data to the camera and then check the external LCD mode.

Note : Conduct the inspection by switching each voltage in order of No.1 to 5.

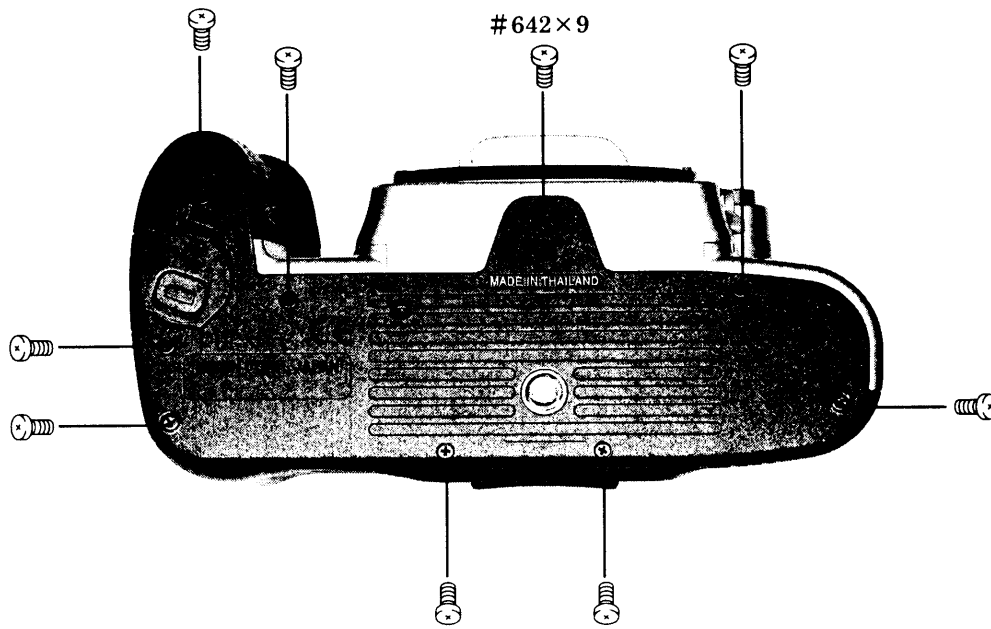
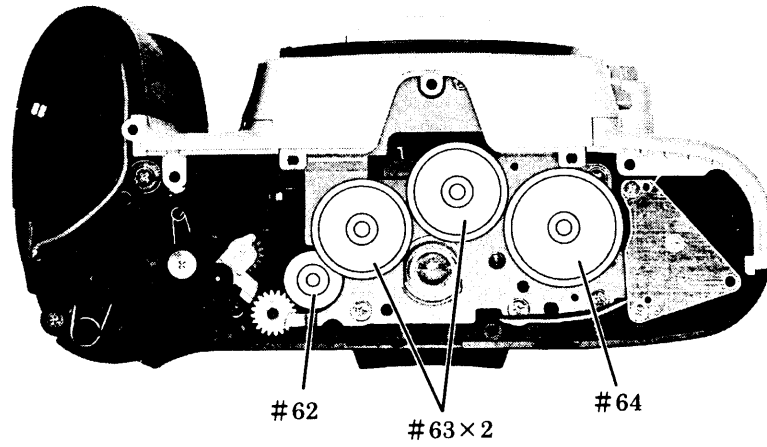
External LCD mode	Set up voltage from the stabilized power supply	
	① 5.00V	⑤ 5.30V±0.2V
	② 4.80V±0.2V	④ 5.00V±0.2V
 blinks	③ 4.50V±0.2V	

BACK DOOR

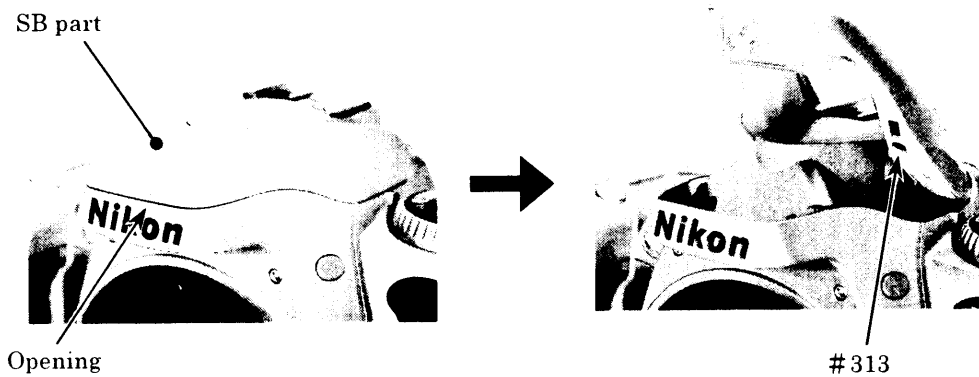
Note : Never use the solvent when cleaning the pressure plate, but use the A-level dust cleaning cloth or Savina Minimax and wipe it softly because the pressure plate of this camera is coated with the special paint.



BOTTOM COVER



ADJUSTMENT OF OPENING IN SB PART

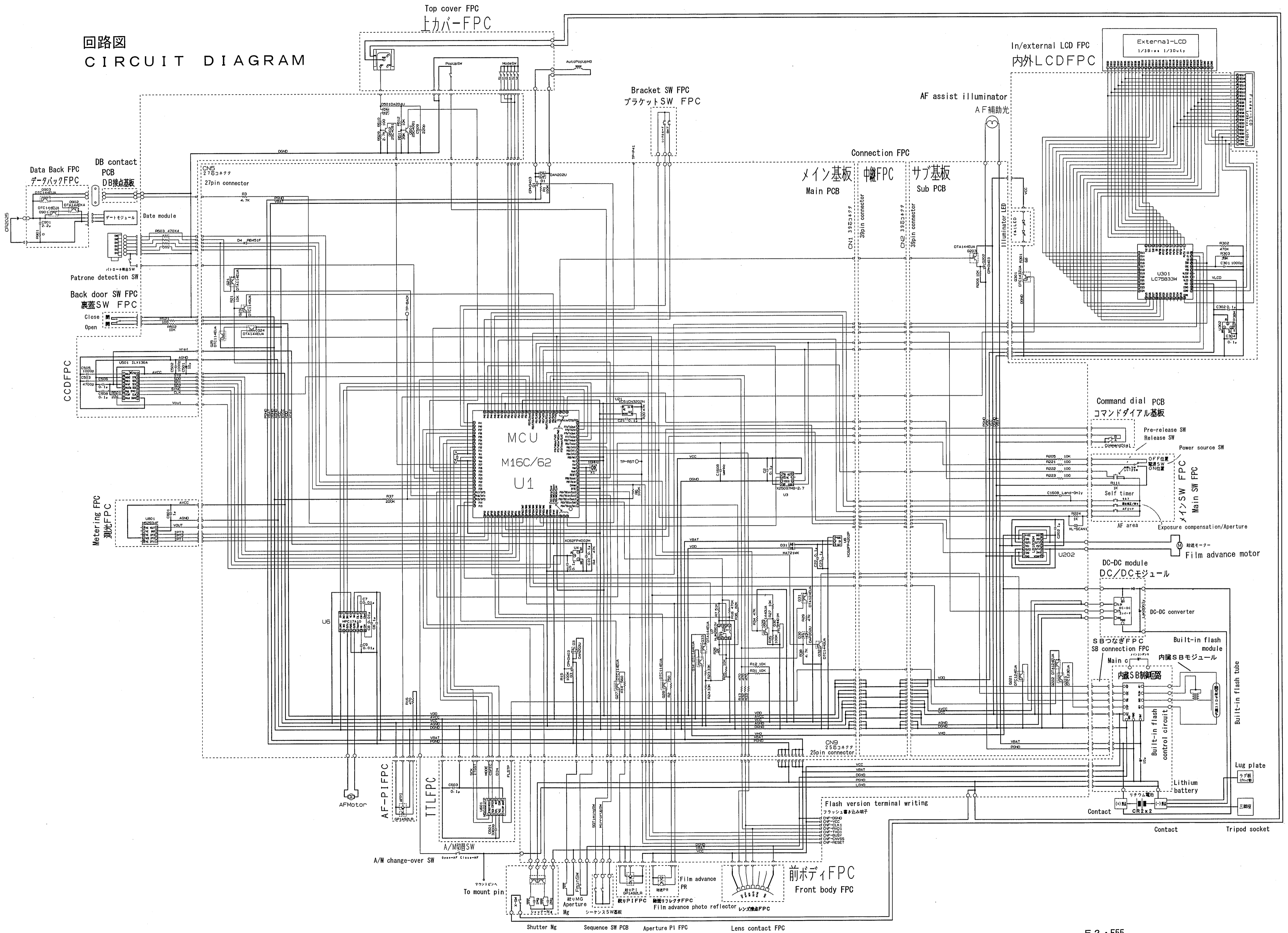


- When pressing the SB part from the top, if play or opening is big, adjust the opening by making the SB part pop up and rotate the #313 by the hex key.

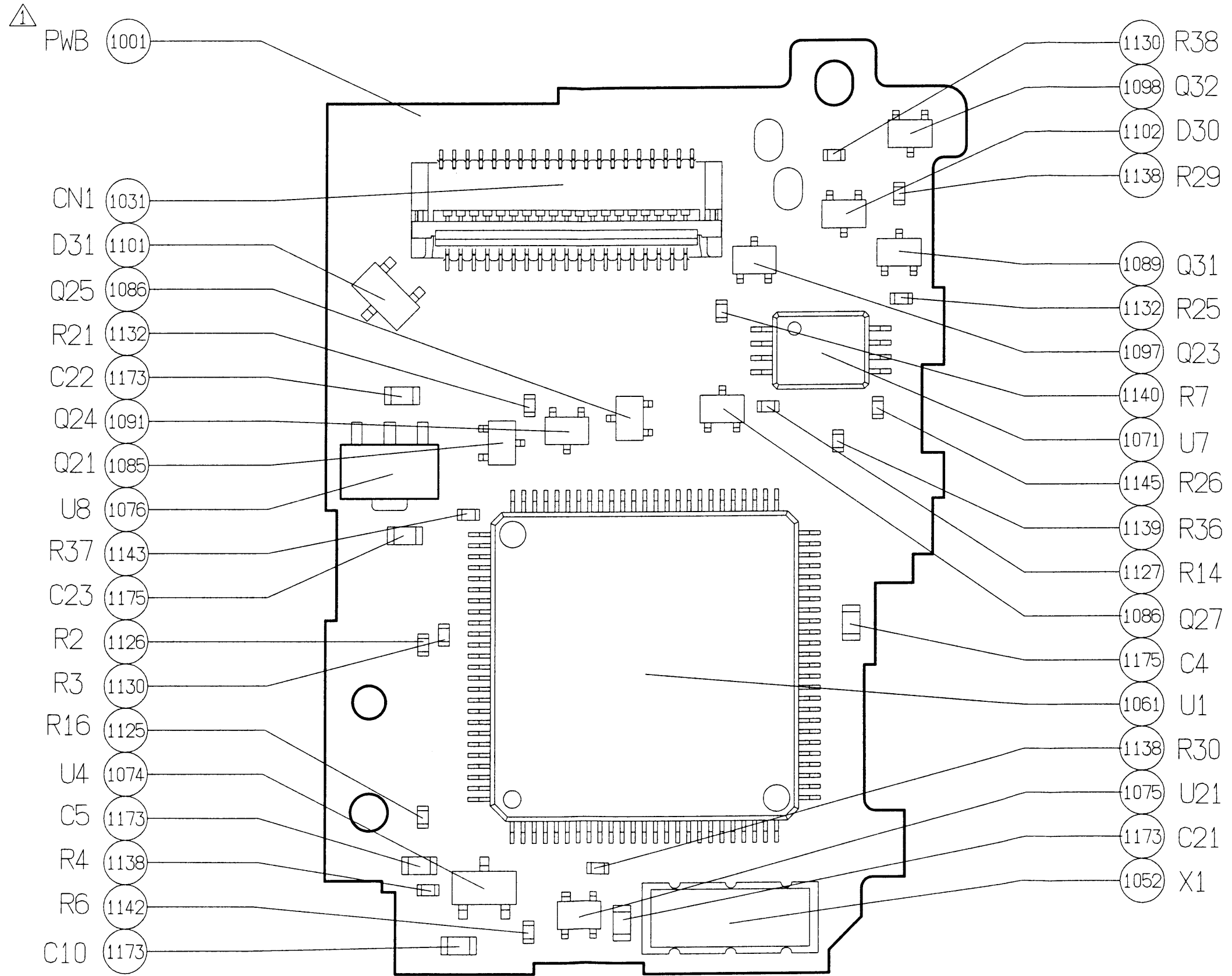
ELECTRIC CIRCUIT

WIRING	E 1
CIRCUIT DIAGRAM	E 2
MAIN PCB	E 3
SUB PCB	E 7
CCD FPC	E 1 1
TTL FPC	E 1 2
TOP COVER FPC	E 1 3
METERING FPC	E 1 4
FRONT BODY FPC	E 1 5
IN/EXTERNAL LCD FPC	E 1 6
MAIN SW FPC	E 1 8
AFPI FPC	E 2 0
LENS CONTACT FPC	E 2 1
BACK DOOR SW FPC	E 2 2
SB CONNECTION FPC	E 2 3
FILM ADVANCE FPC	E 2 4
APERTURE PI FPC	E 2 5
DATABACK FPC	E 2 6
DB CONTACT FPC	E 2 7
BRACKET SW FPC	E 2 8
EEPROM DATA	E 2 9

回路図
CIRCUIT DIAGRAM

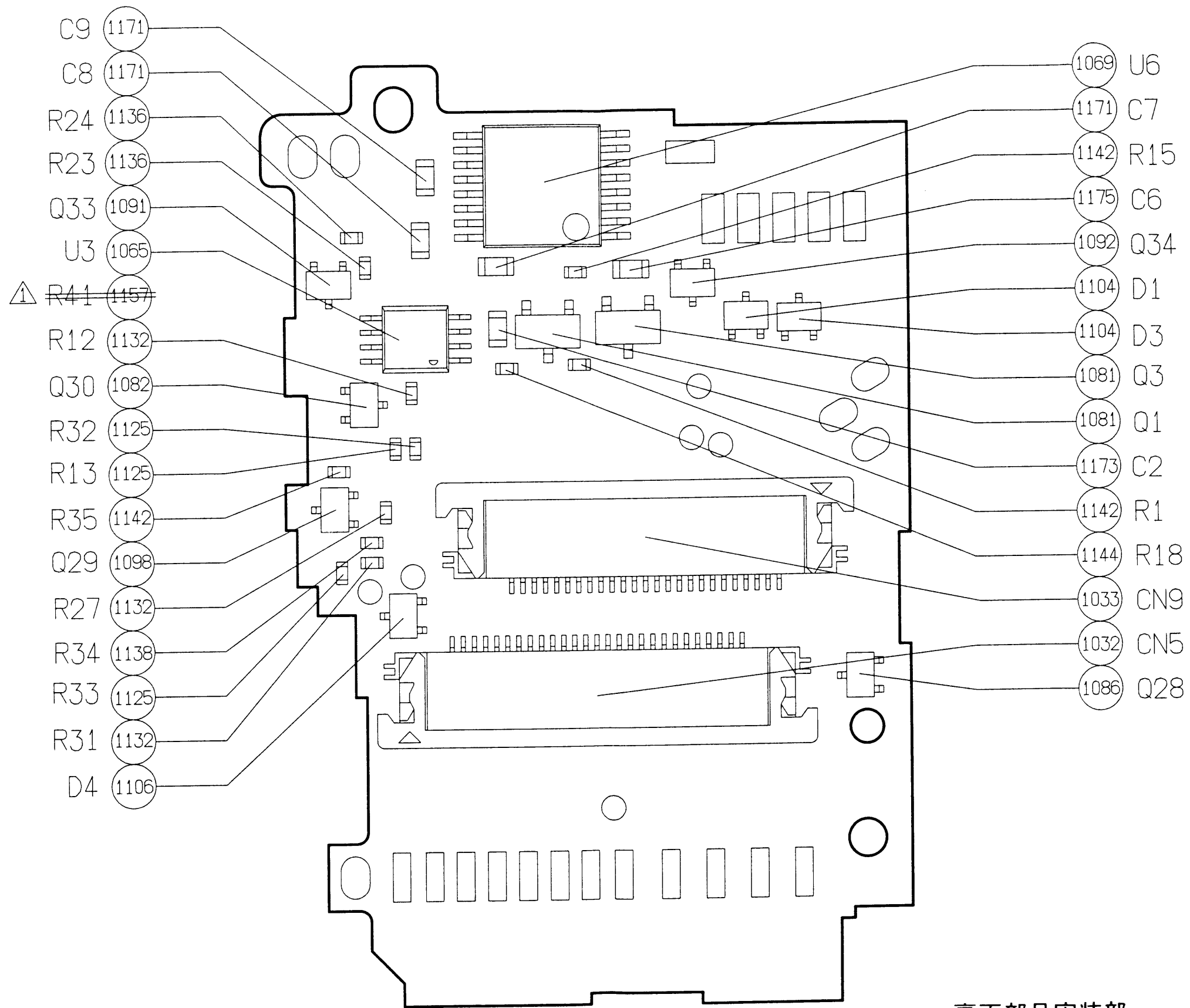


メイン PCB
MAIN PCB



表面部品実装図
Front side parts location's diagram

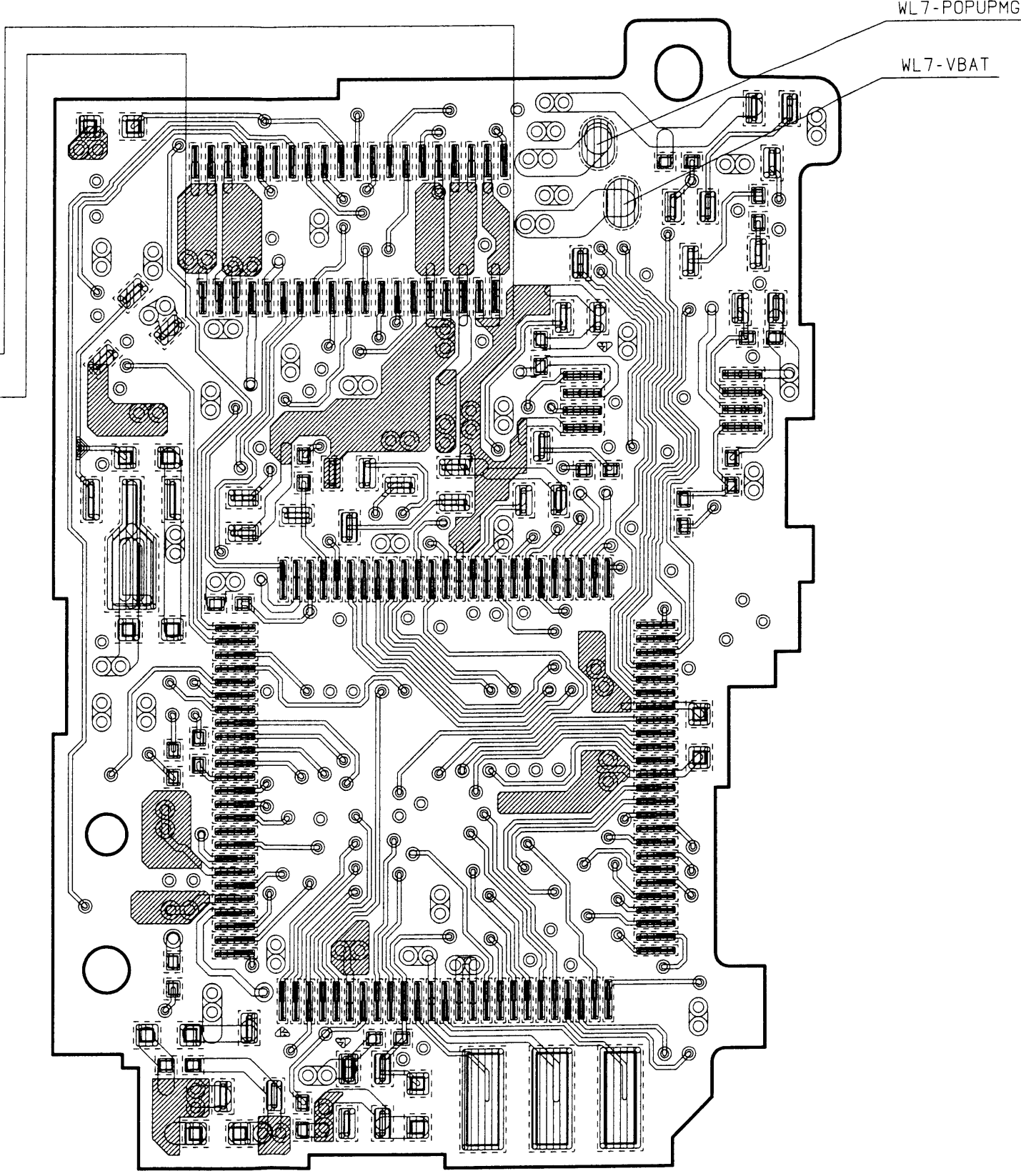
メイン PCB
MAIN PCB



裏面部品実装部
Back side parts location's diagram

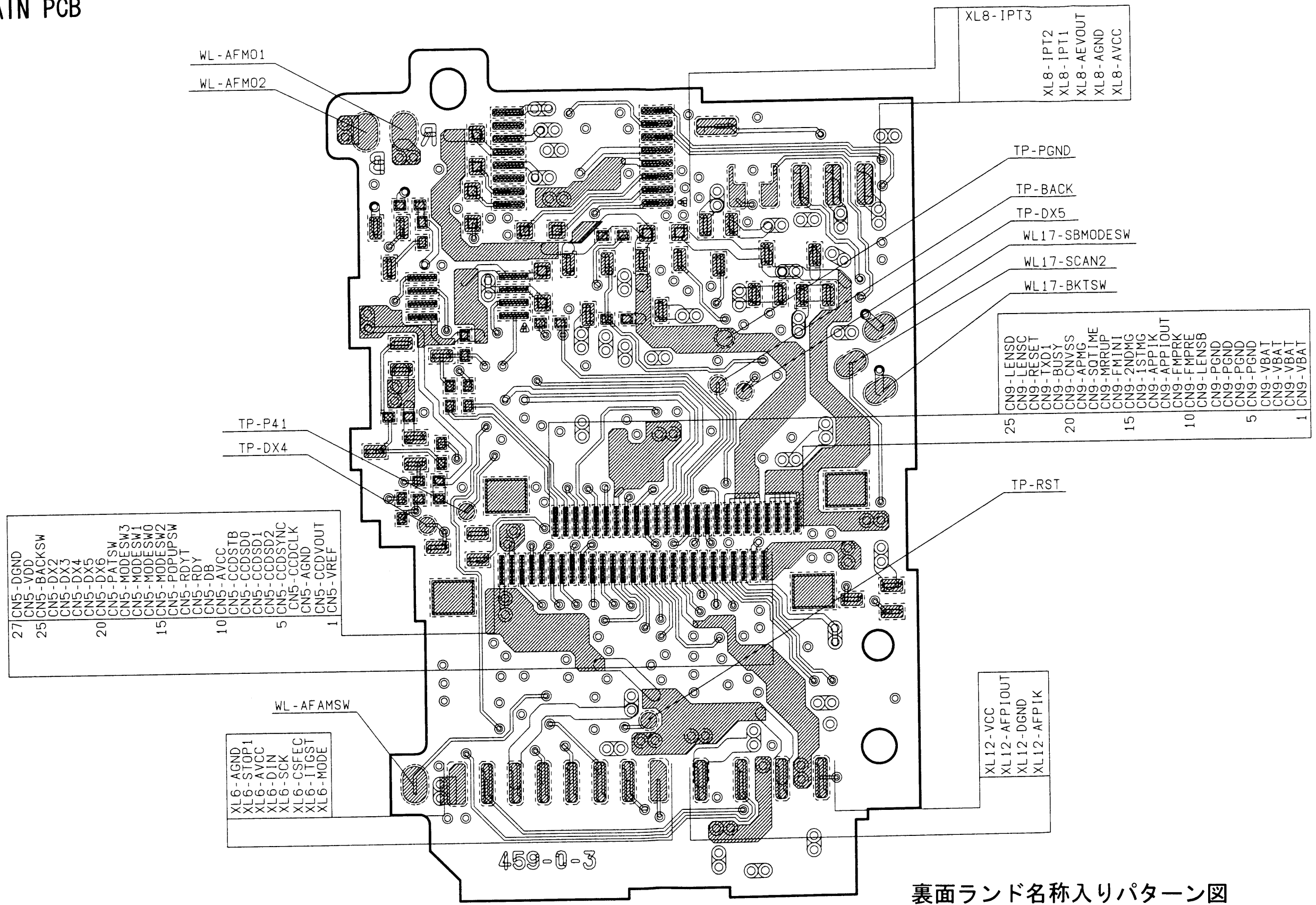
メイン PCB
MAIN PCB

1	CN1-AGND	CN1-AGND
	CN1-AGND	CN1-AGND
5	CN1-AVCC	CN1-AVCC
	CN1-SBSTOP	CN1-SBSTOP
	CN1-SBTRG	CN1-SBTRG
	CN1-NC	CN1-NC
	CN1-FMIN1	CN1-FMIN1
15	CN1-AFAREASW	CN1-AFAREASW
	CN1-SELFV	CN1-SELFV
	CN1-MAINSW	CN1-MAINSW
25	CN1-CMDA	CN1-CMDA
	CN1-ILLED	CN1-ILLED
	CN1-CLKO	CN1-CLKO
	CN1-LCDCE	CN1-LCDCE
	CN1-AFLAMP	CN1-AFLAMP
	CN1-VCC	CN1-VCC
35	CN1-VDD	CN1-VDD
	CN1-VDD	CN1-VDD
	CN1-DGND	CN1-DGND
39	CN1-SBOSC	CN1-SBOSC
2	CN1-AGND	CN1-AGND
	CN1-AVCC	CN1-AVCC
	CN1-AVCC	CN1-AVCC
	CN1-SBRDY	CN1-SBRDY
10	CN1-VMO	CN1-VMO
	CN1-FMIN2	CN1-FMIN2
	CN1-SCAN1	CN1-SCAN1
	CN1-EXPSW	CN1-EXPSW
20	CN1-HSW	CN1-HSW
	CN1-CMDB	CN1-CMDB
	CN1-RLSSW	CN1-RLSSW
	CN1-TXDO	CN1-TXDO
	CN1-CTL	CN1-CTL
	CN1-LCDINH	CN1-LCDINH
30	CN1-VCC	CN1-VCC
	CN1-VCC	CN1-VCC
	CN1-VDD	CN1-VDD
	CN1-DGND	CN1-DGND
38	CN1-DGND	CN1-DGND



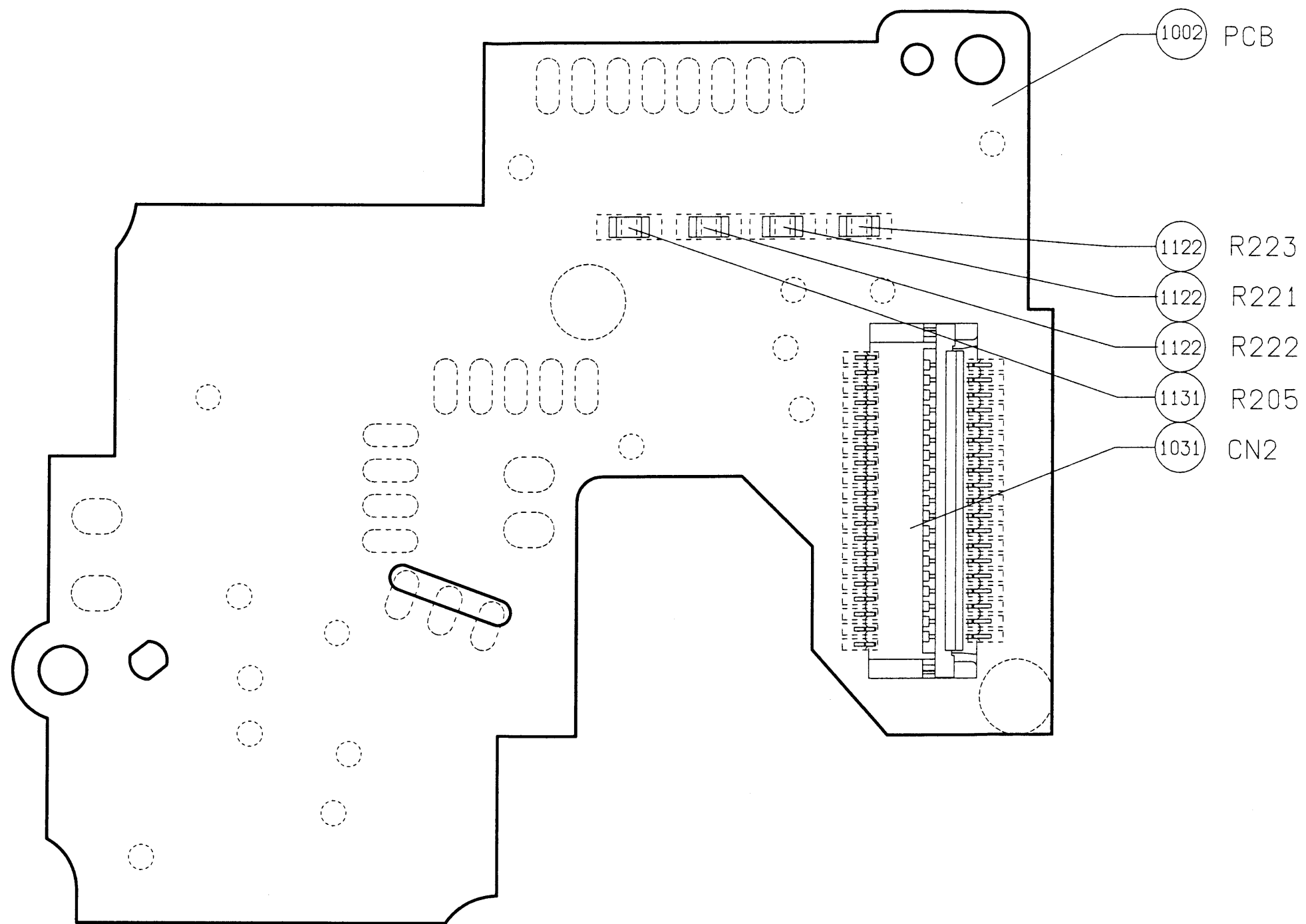
表面ランド名称入りパターン図
Front side pattern diagram with land name

メイン PCB MAIN PCB



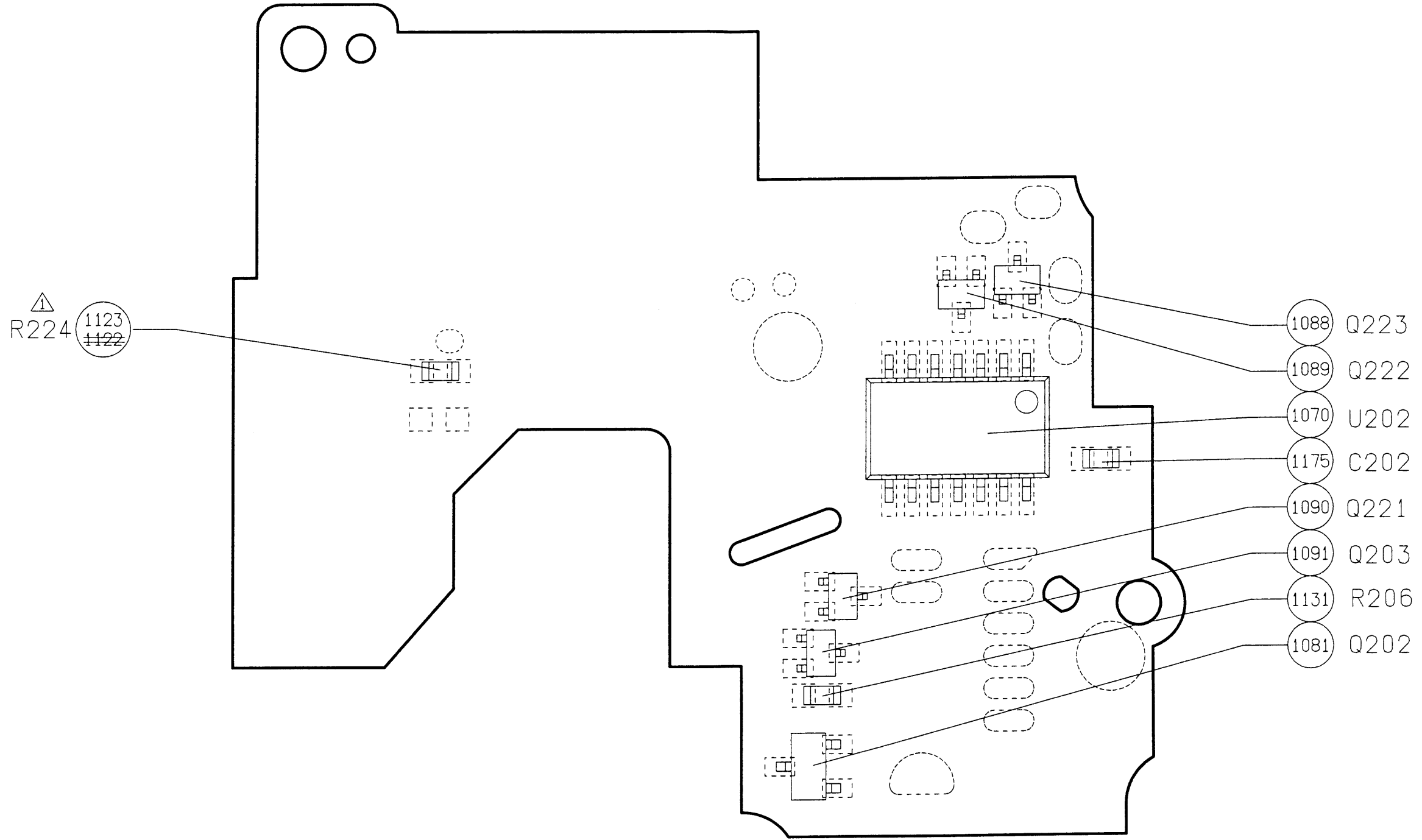
裏面ランド名称入りパターン図
Back side pattern diagram with land name

サブ PCB
SUB PCB



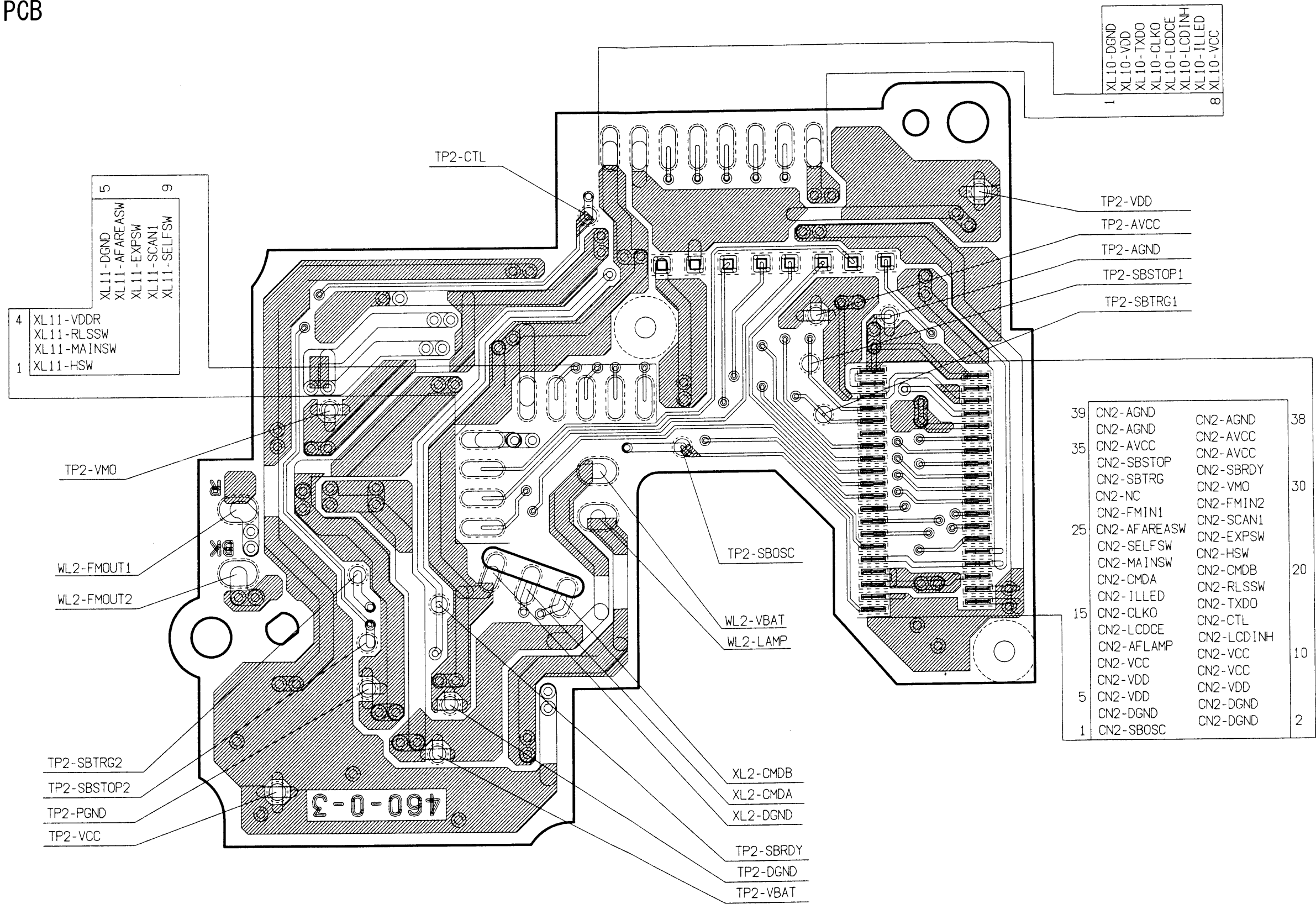
表面部品実装図
Front side parts location's diagram

サブ PCB
SUB PCB



裏面部品実装部
Back side parts location's diagram

サブ PCB
SUB PCB



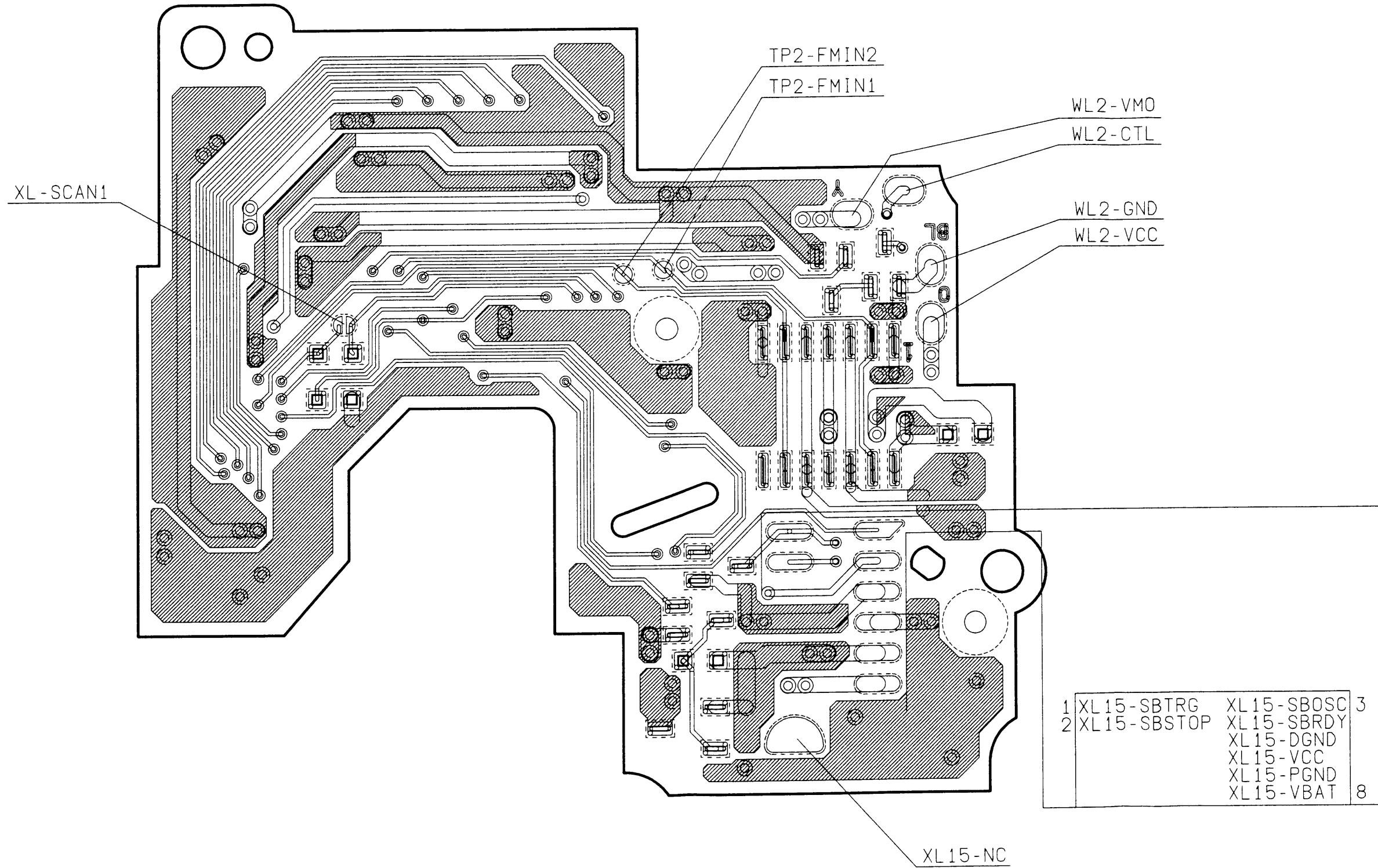
5	XL11-DGND	XL11-AFAREASW	9
	XL11-EXPSW	XL11-SCAN1	
	XL11-SELFSW		
4	XL11-VDDR		
	XL11-RLSSW		
	XL11-MAINSW		
1	XL11-HSW		

1	XL10-DGND		8
	XL10-VDD		
	XL10-TXDO		
	XL10-CLKO		
	XL10-LCDCE		
	XL10-LCDINH		
	XL10-ILLED		
	XL10-VCC		

39	CN2-AGND	CN2-AGND	38
	CN2-AGND	CN2-AVCC	
35	CN2-AVCC	CN2-AVCC	
	CN2-SBSTOP	CN2-SBRDY	
	CN2-SBTRG	CN2-VMO	30
	CN2-NC	CN2-FMIN2	
	CN2-FMIN1	CN2-SCAN1	
25	CN2-AFAREASW	CN2-EXPSW	
	CN2-SELFSW	CN2-HSW	
	CN2-MAINSW	CN2-CMDB	20
	CN2-CMDA	CN2-RLSSW	
	CN2-ILLED	CN2-TXDO	
15	CN2-CLKO	CN2-CTL	
	CN2-LCDCE	CN2-LCDINH	10
	CN2-AFLAMP	CN2-VCC	
	CN2-VCC	CN2-VCC	
	CN2-VDD	CN2-VDD	
5	CN2-VDD	CN2-DGND	
	CN2-DGND	CN2-DGND	2
1	CN2-SBOSC		

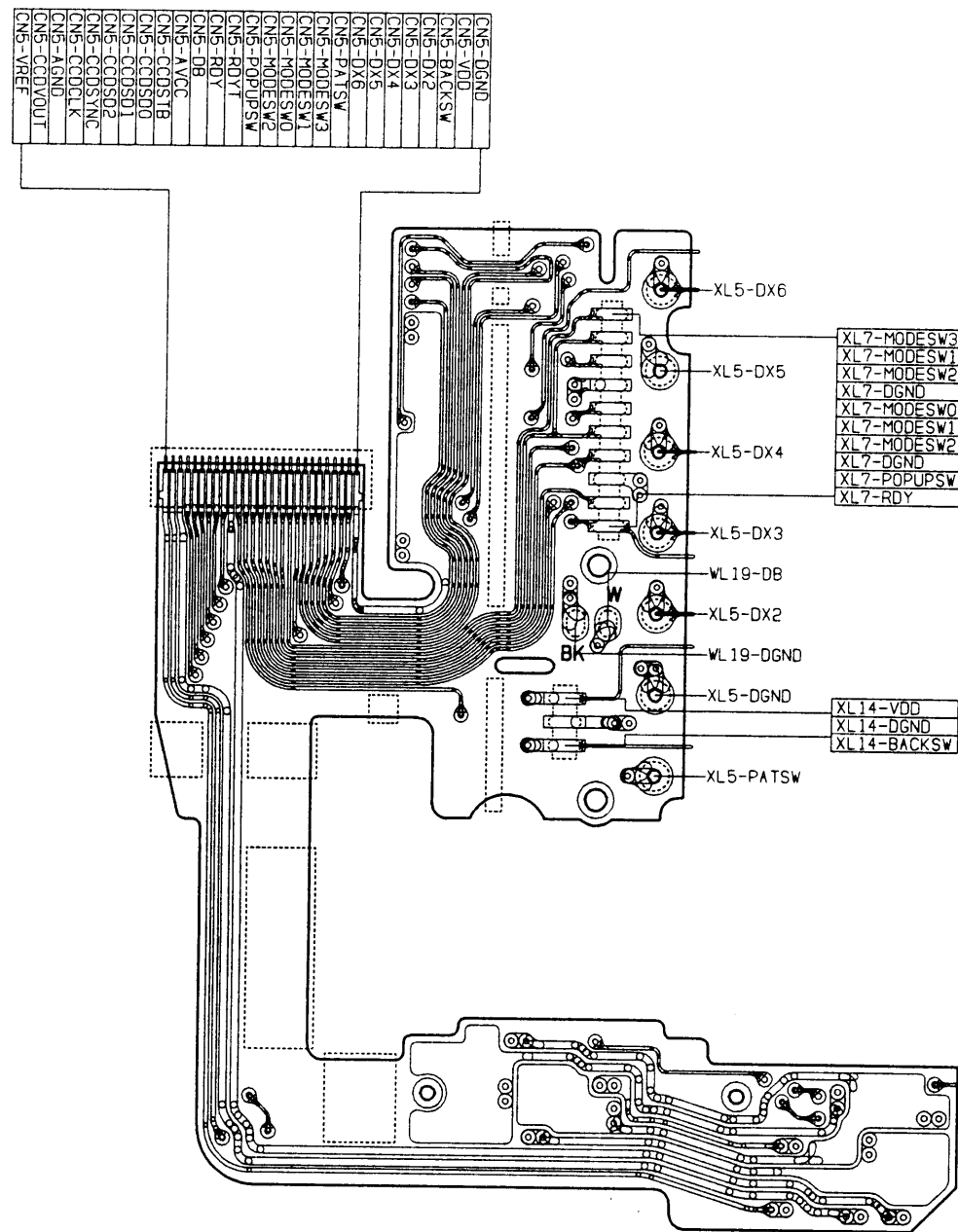
表面ランド名称入りパターン図
Front side pattern diagram with land name

サブ PCB
SUB PCB

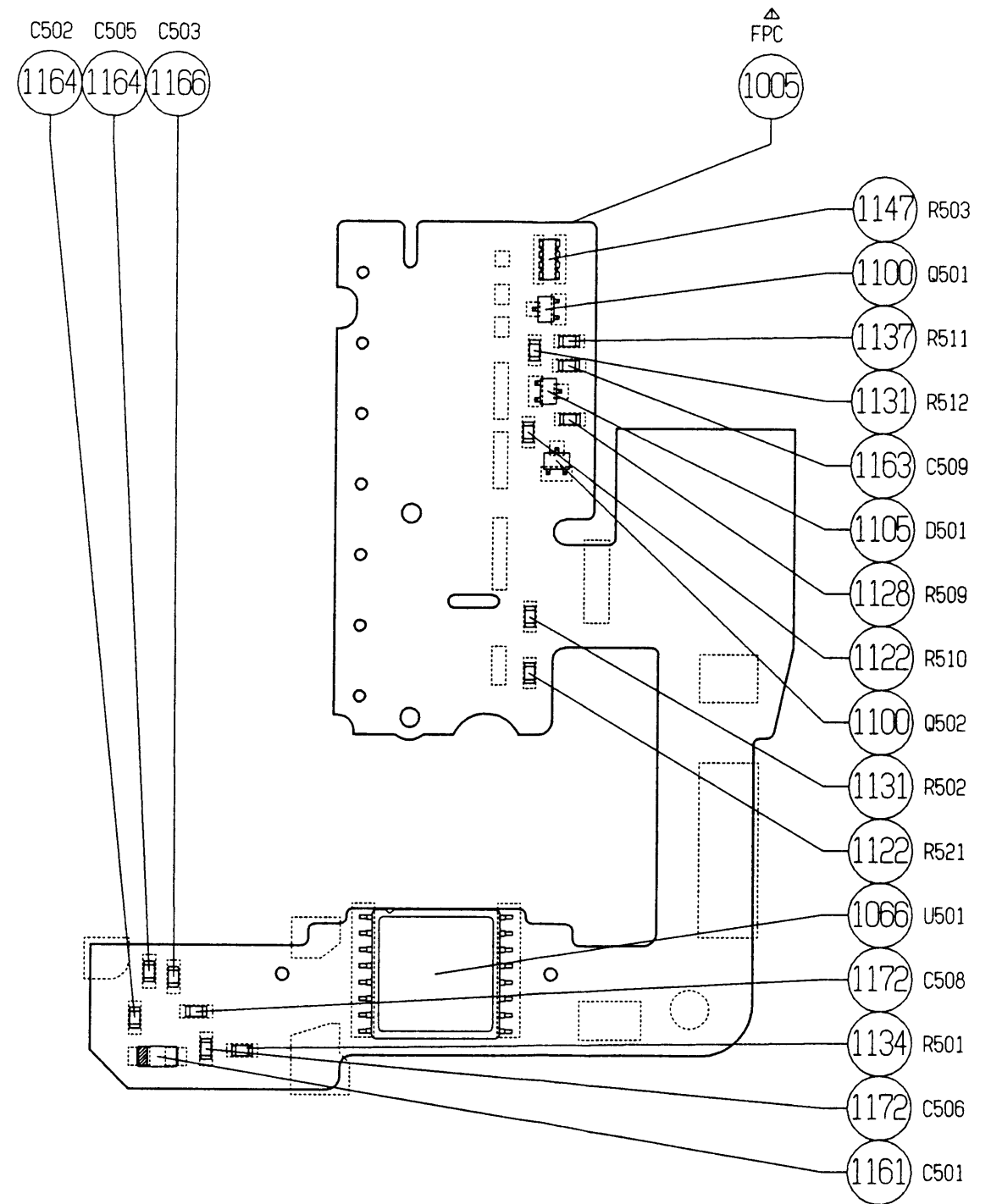


裏面ランド名称入りパターン図
Back side pattern diagram with land name

CCD FPC

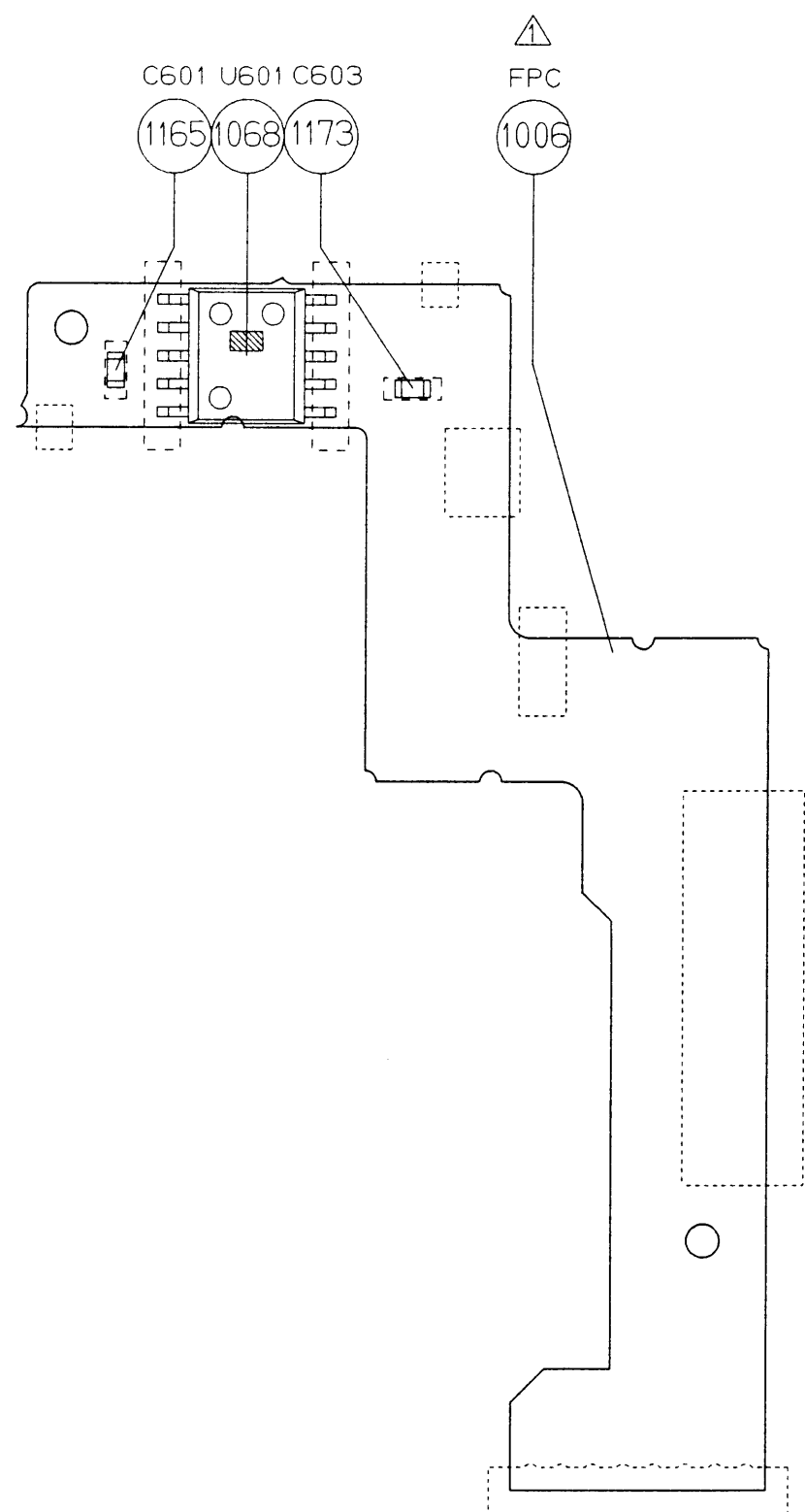


表面ランド名称図
Front side land name

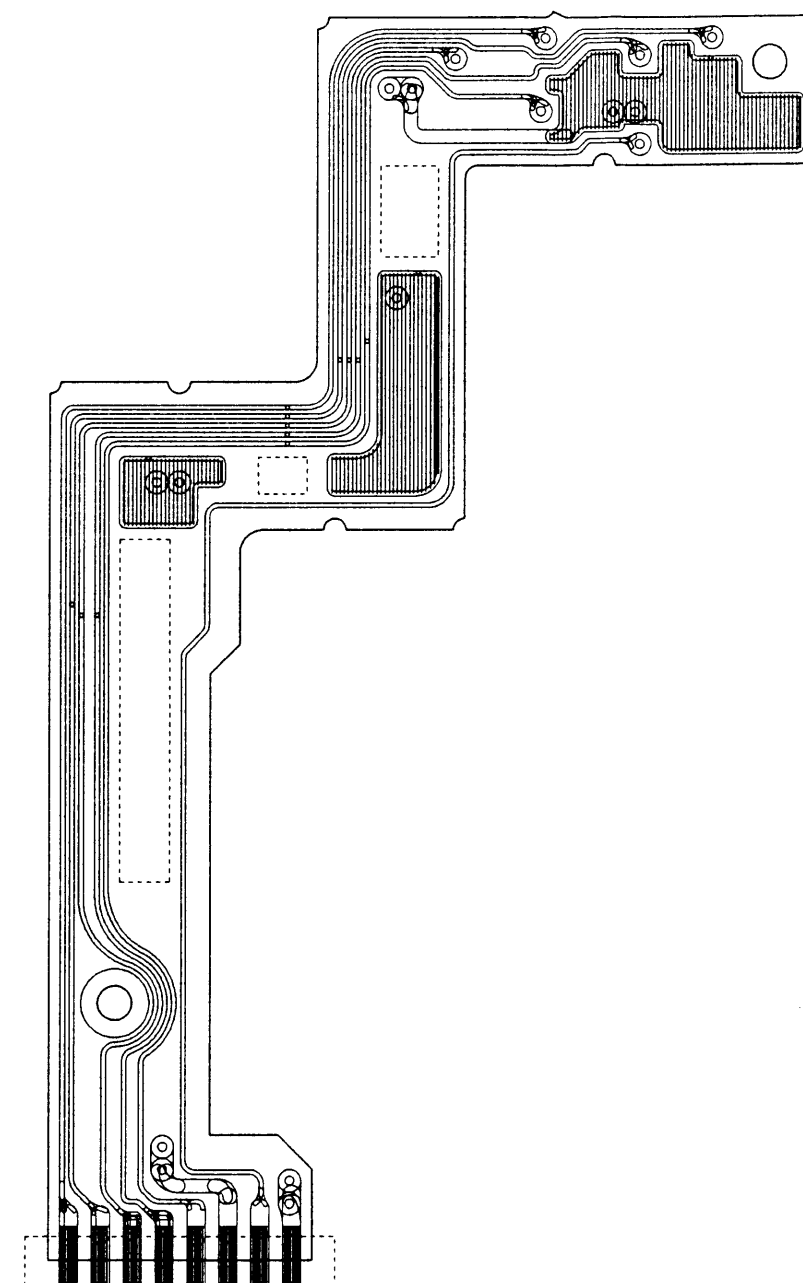


表面部品実装図
Front side parts location's diagram

TTL FPC

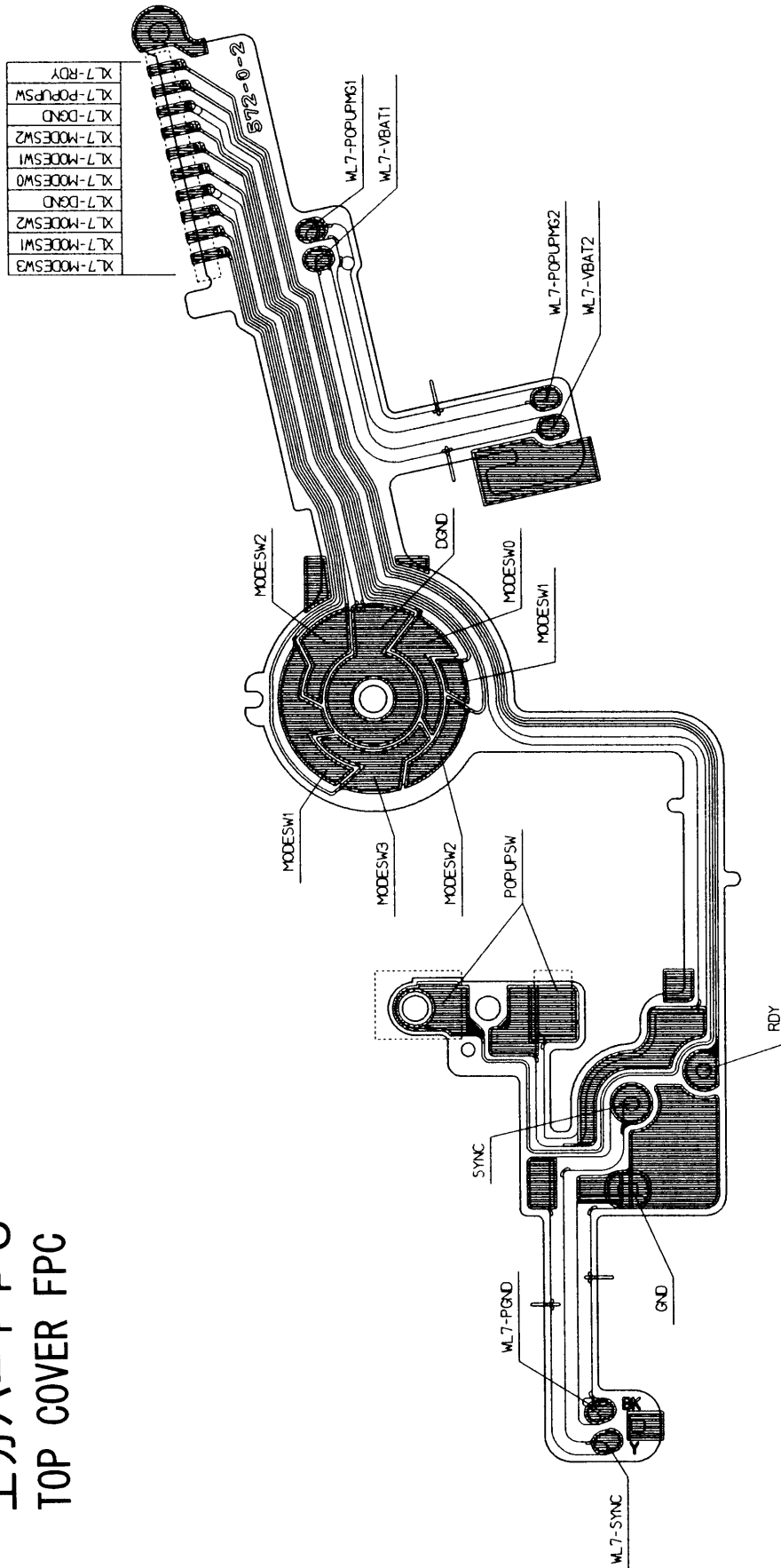


表面部品実装図
Front side parts location's diagram



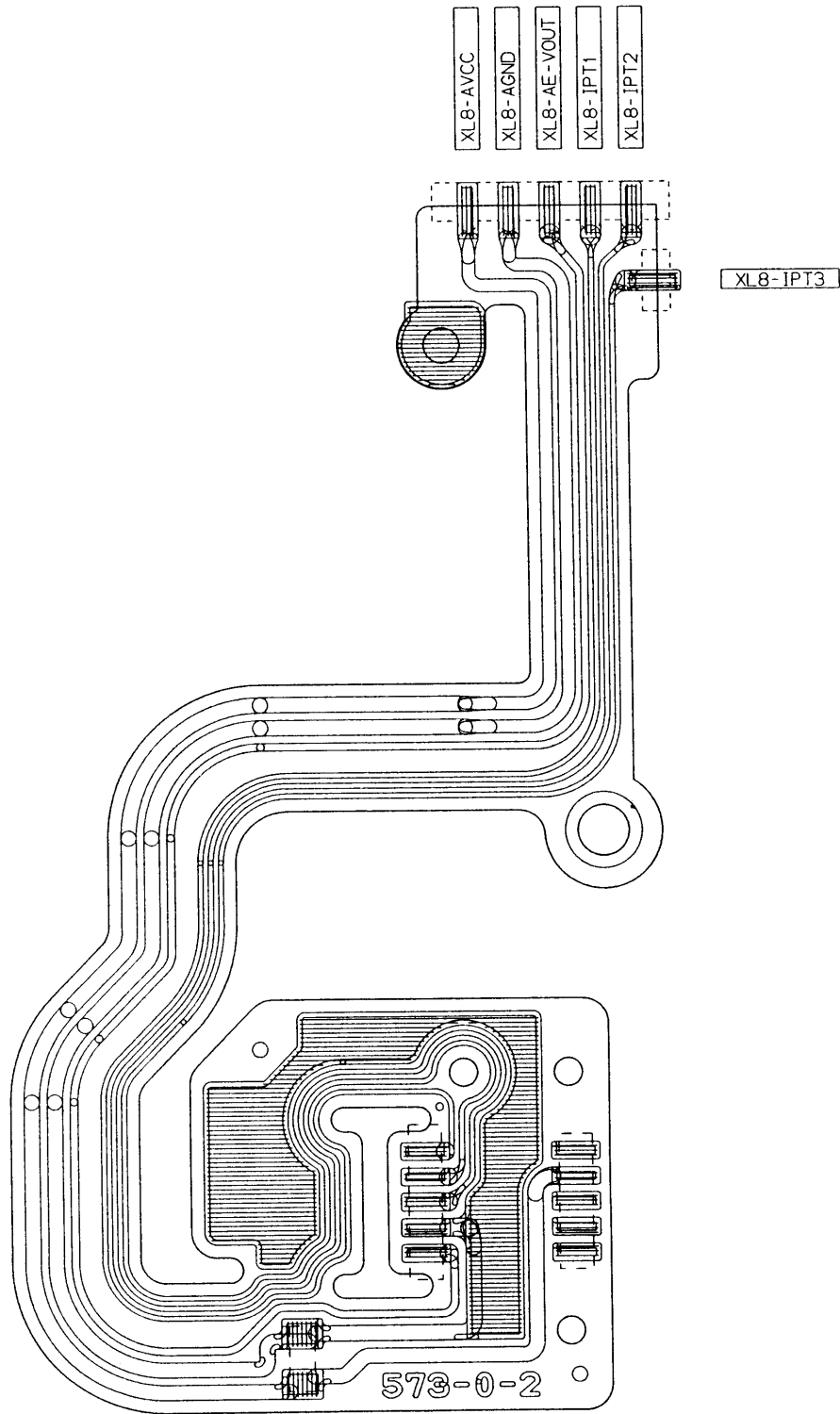
裏面ランド名称入りパターン図
Back side pattern diagram with land name

上カバー FPC
TOP COVER FPC



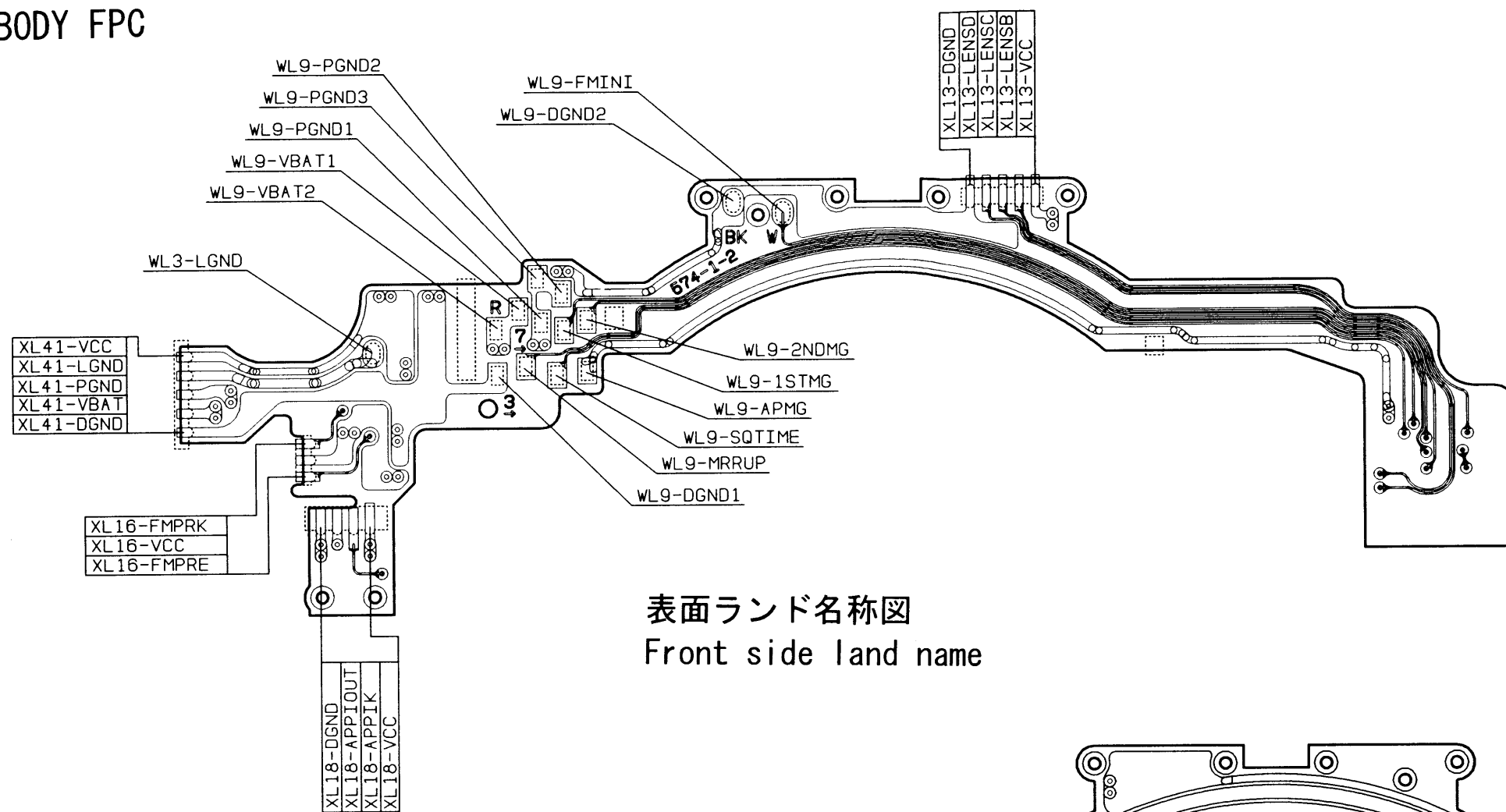
表面ランド名称入りパターン図
Front side pattern diagram with land name

測光 F P C
METERING FPC

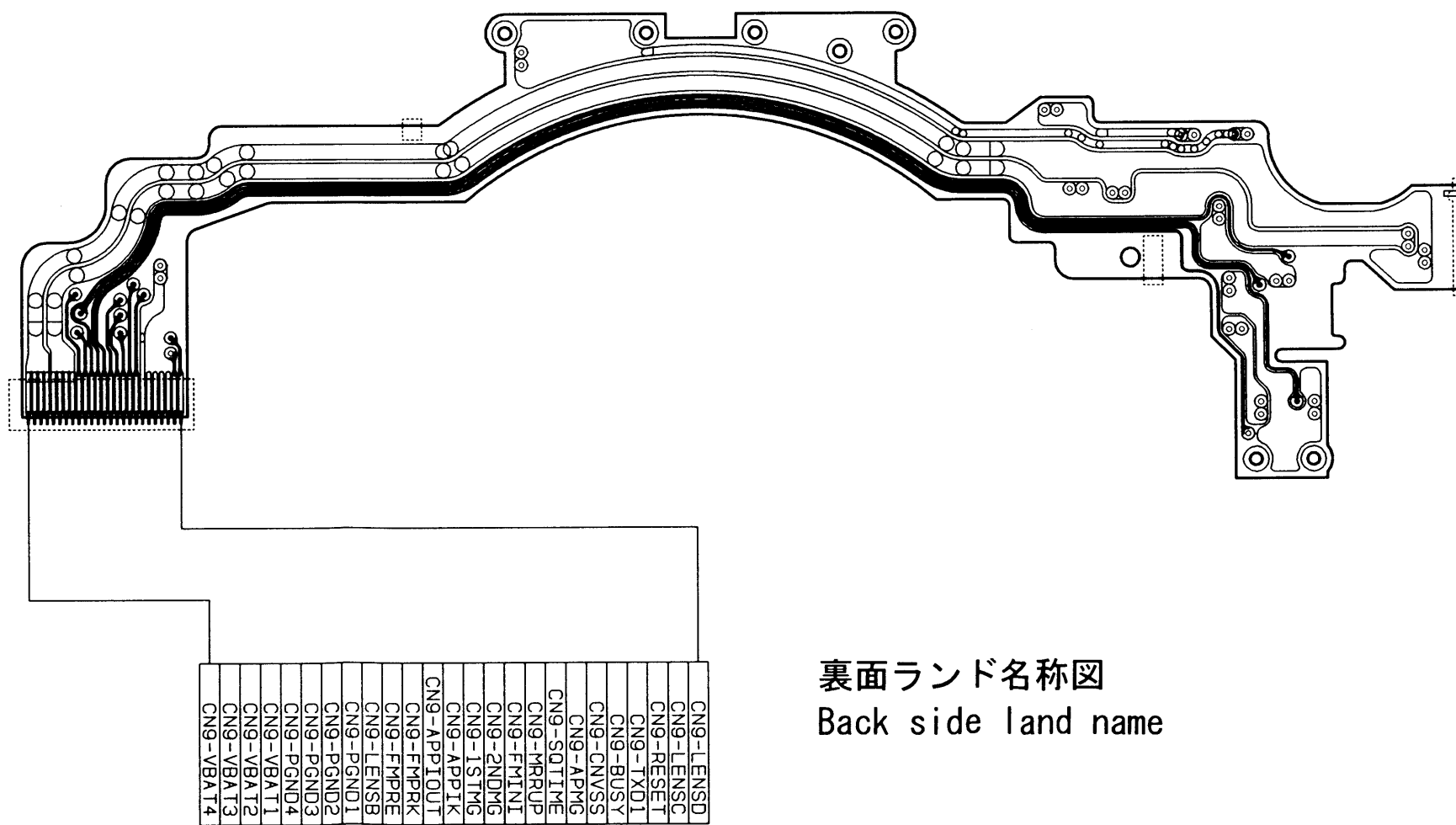


表面ランド名称入りパターン図
Front side pattern diagram with land name

前ボディFPC
FRONT BODY FPC

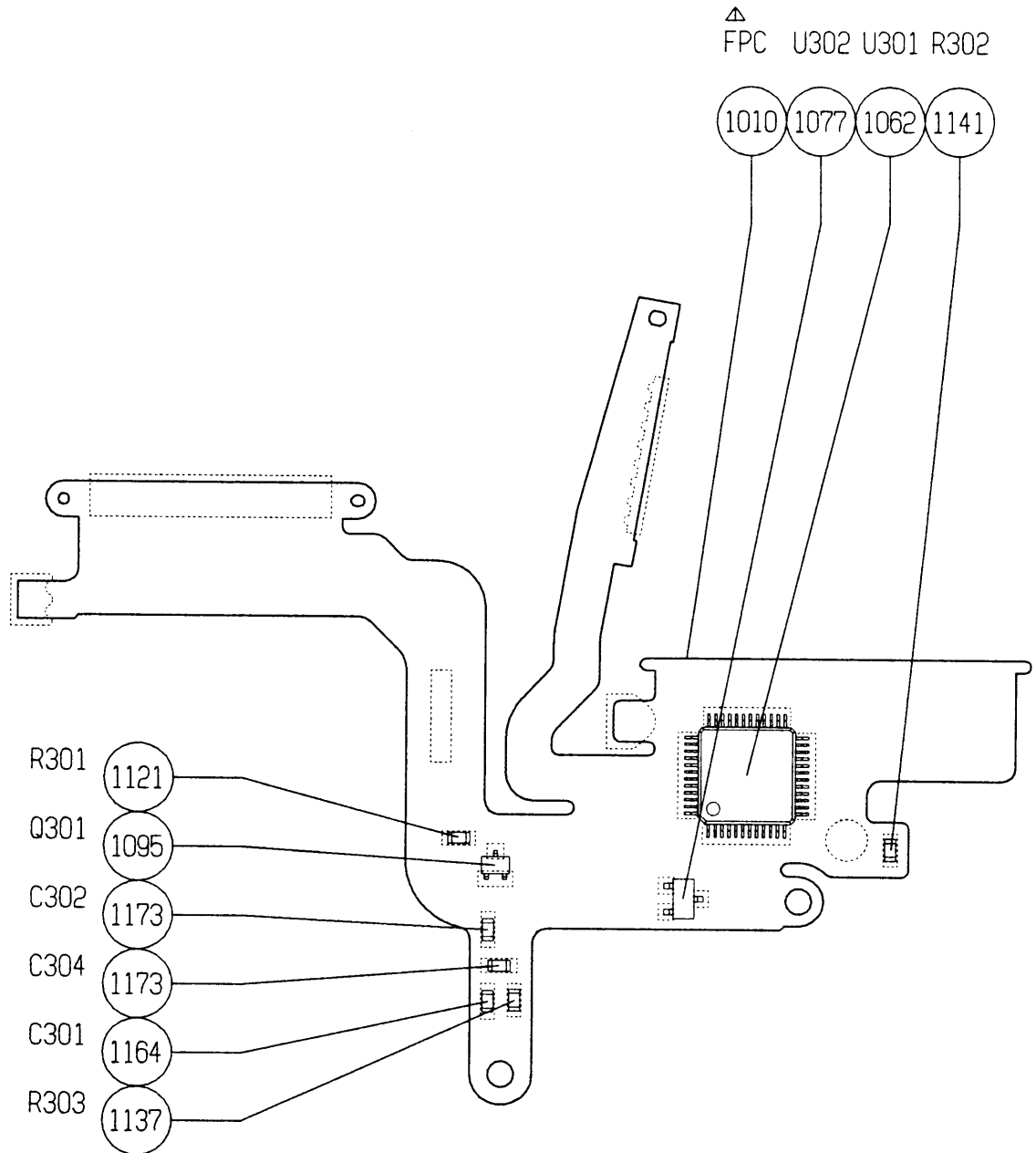


表面ランド名称図
Front side land name



裏面ランド名称図
Back side land name

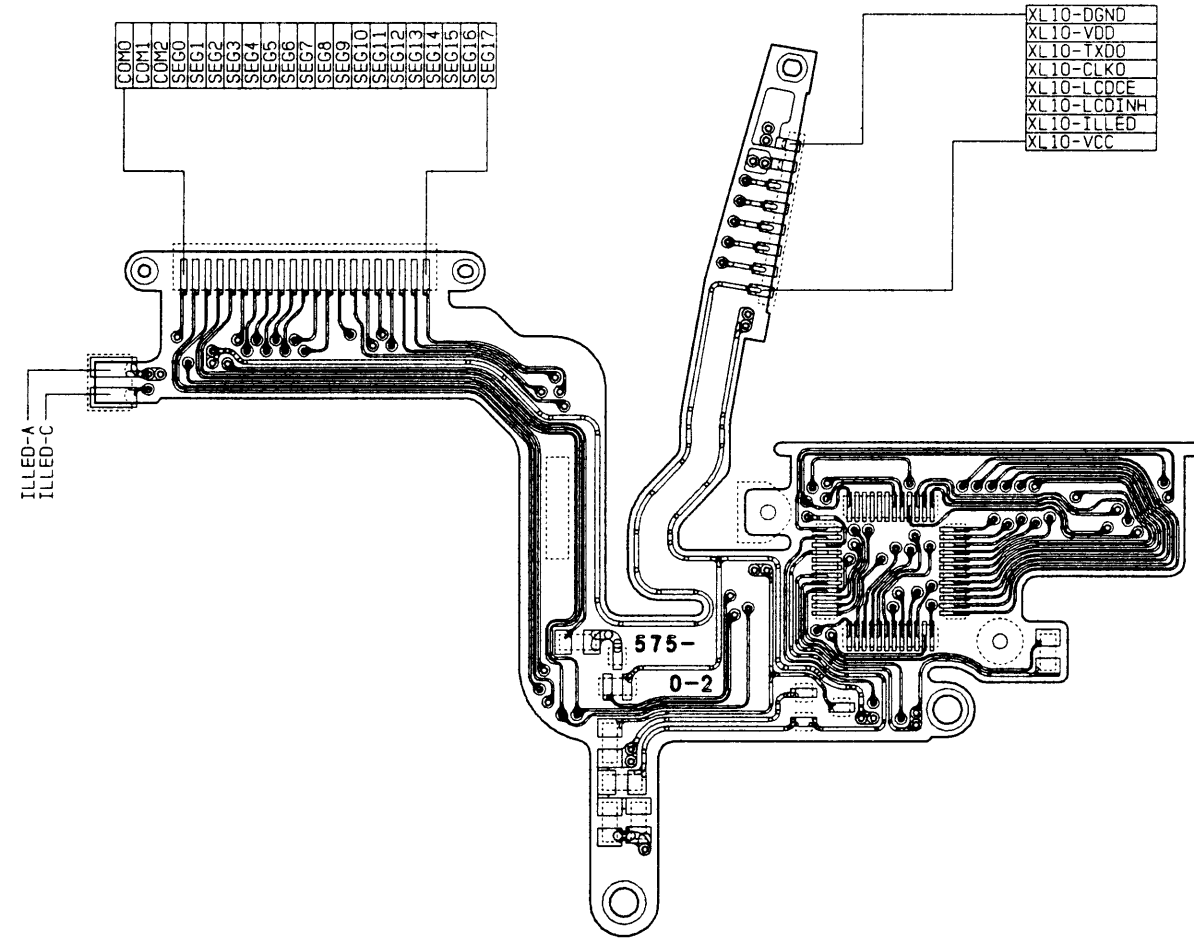
内外LCD FPC
IN/EXTERNAL LCD FPC



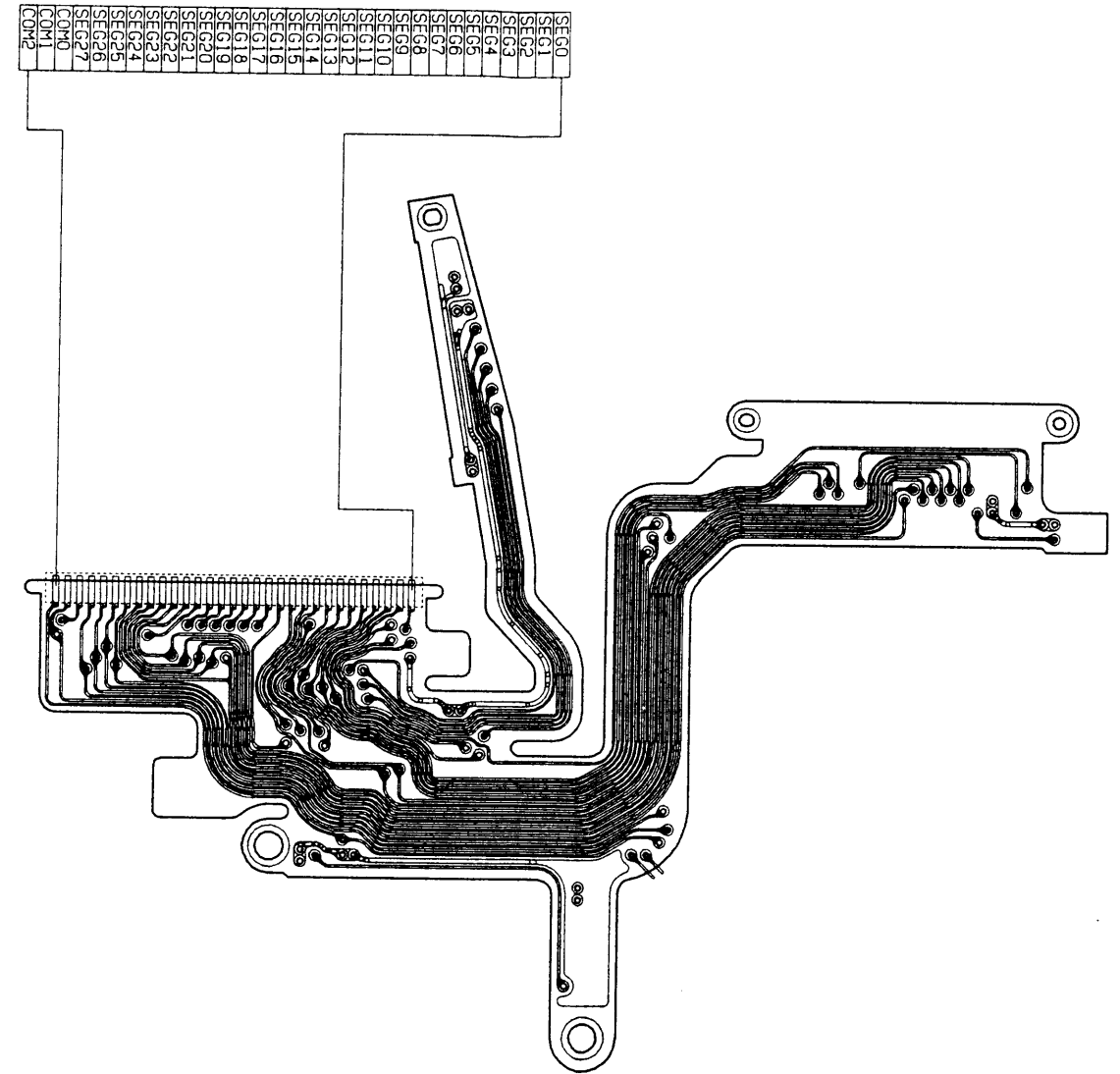
表面部品実装図

Front side parts location's diagram

内外LCD FPC
IN/EXTERNAL LCD FPC

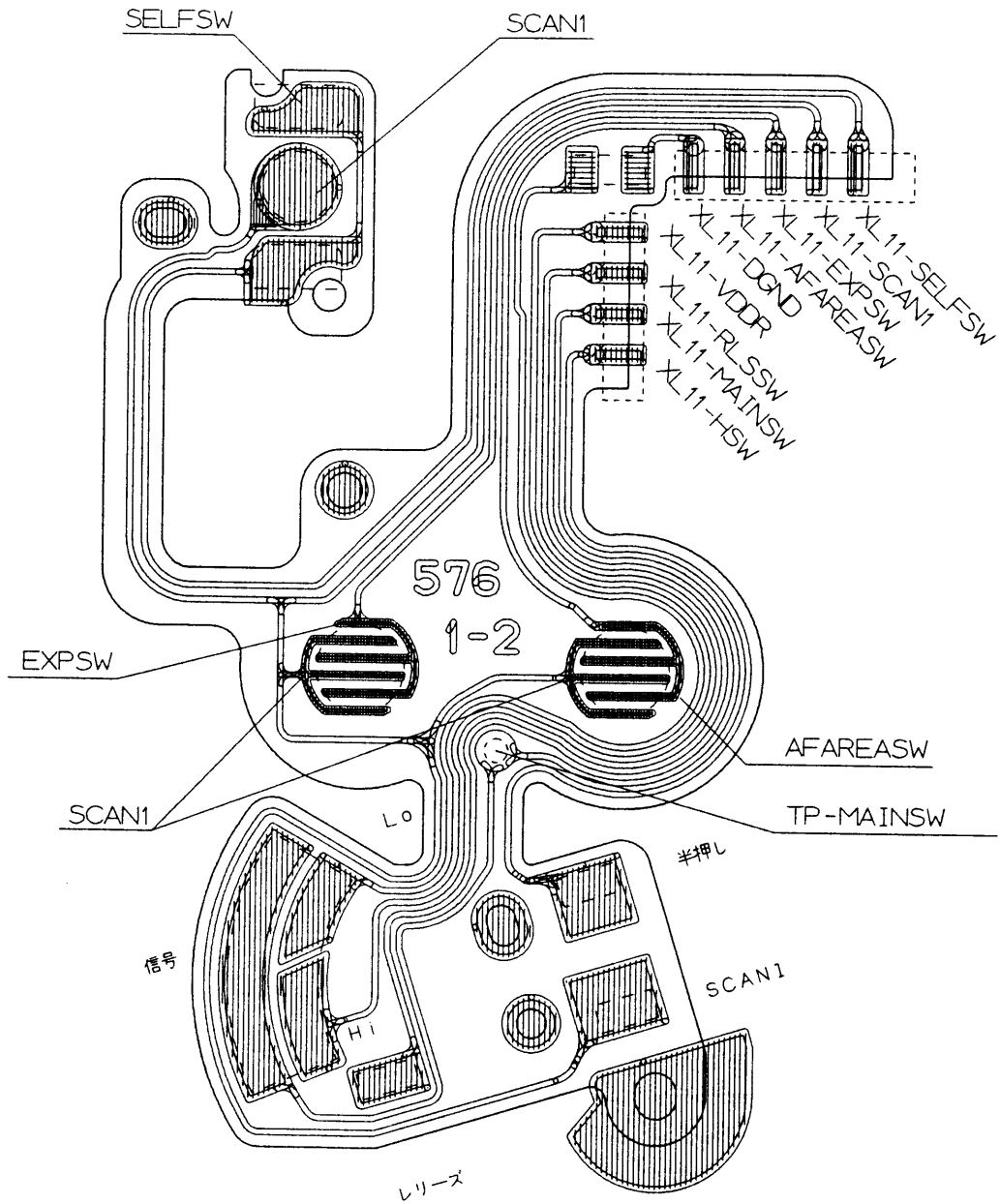


表面ランド名称図
Front side land name



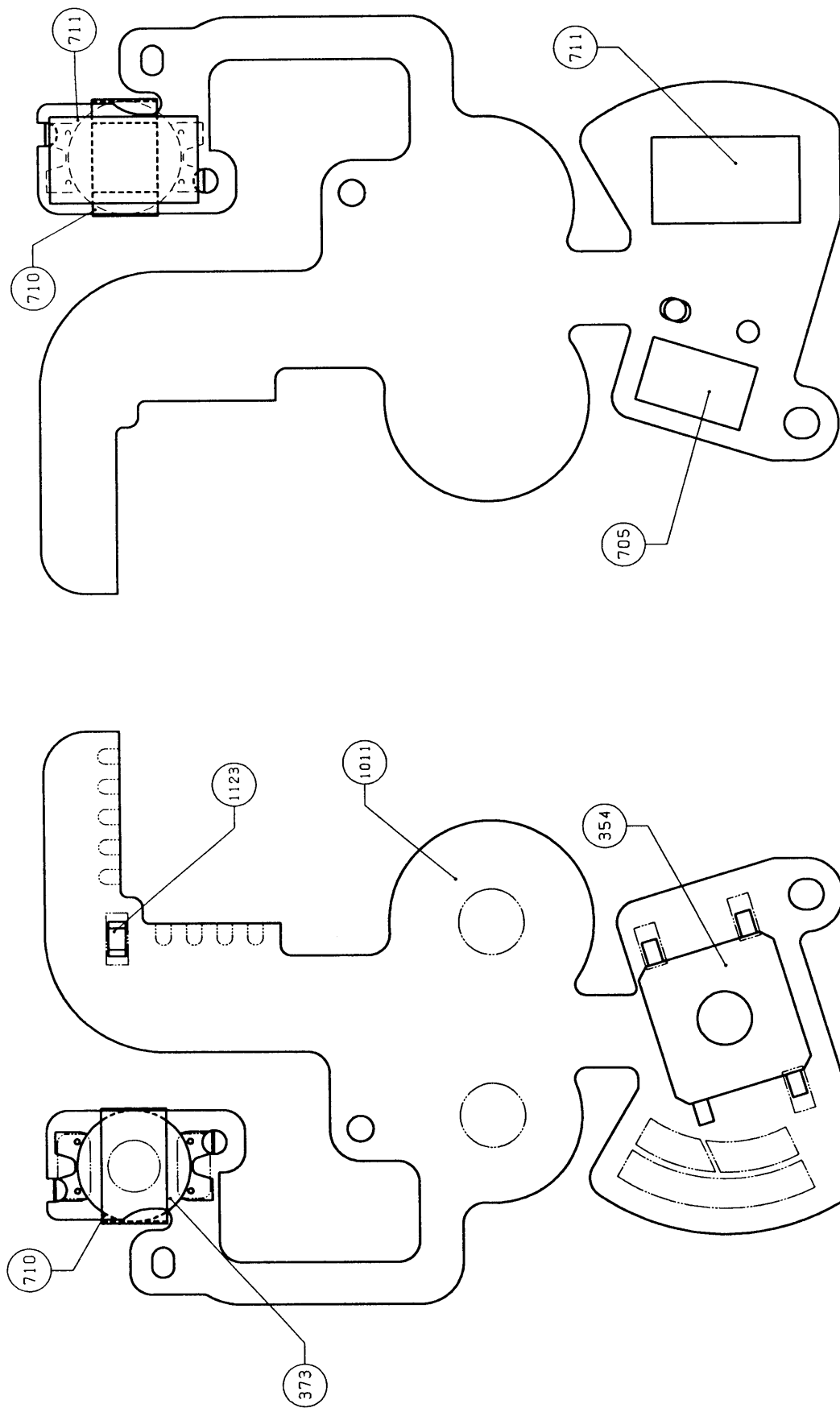
裏面ランド名称入りパターン図
Back side pattern diagram with land name

メインSW FPC
MAIN SWITCH FPC

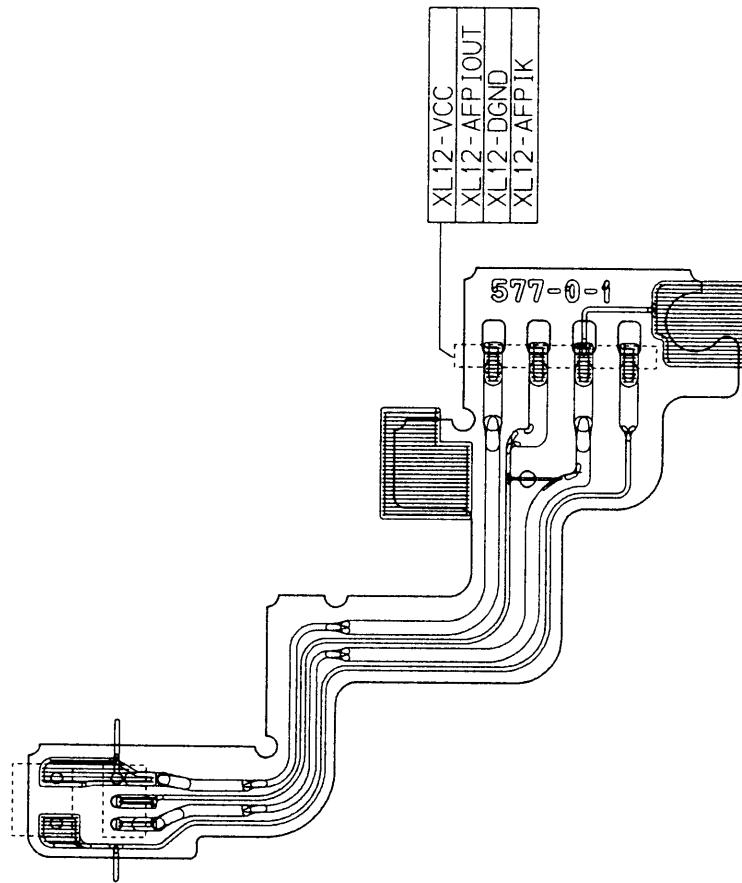


表面ランド名称入りパターン図
Front side pattern diagram with land name

メインSW FPC
MAIN SW FPC

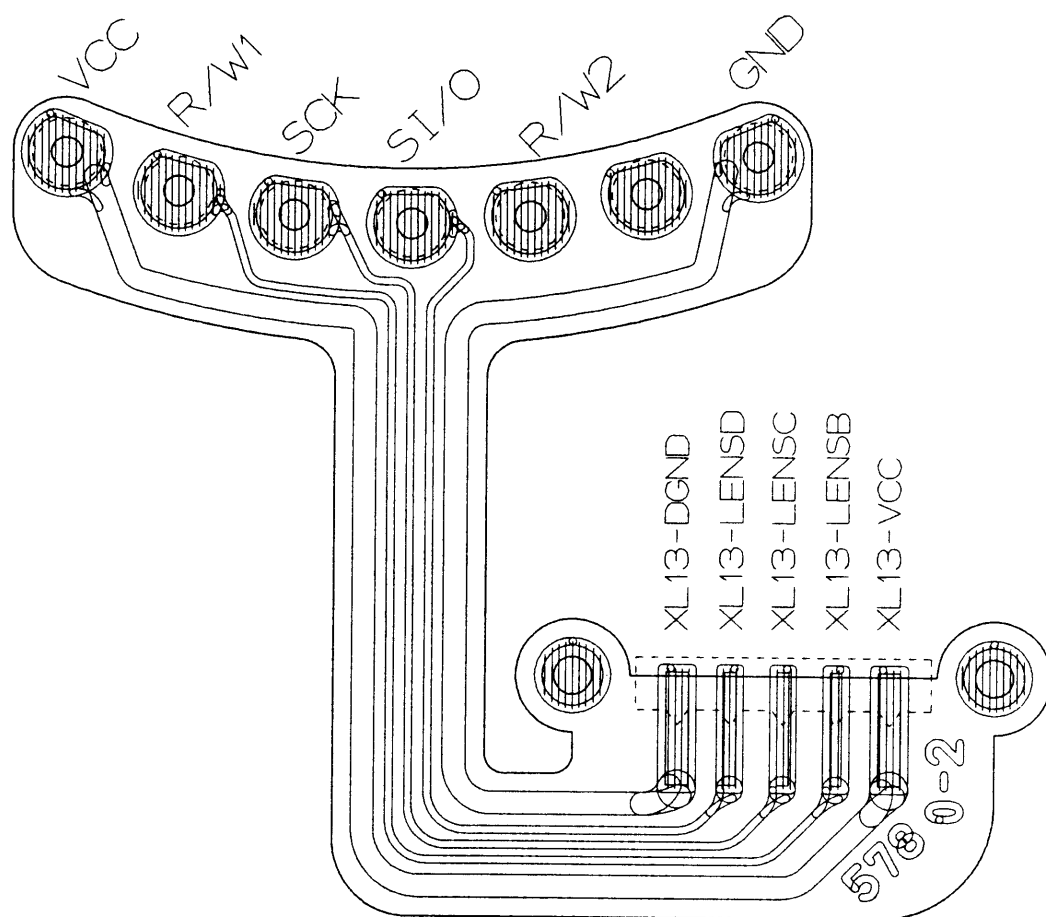


AFPI FPC



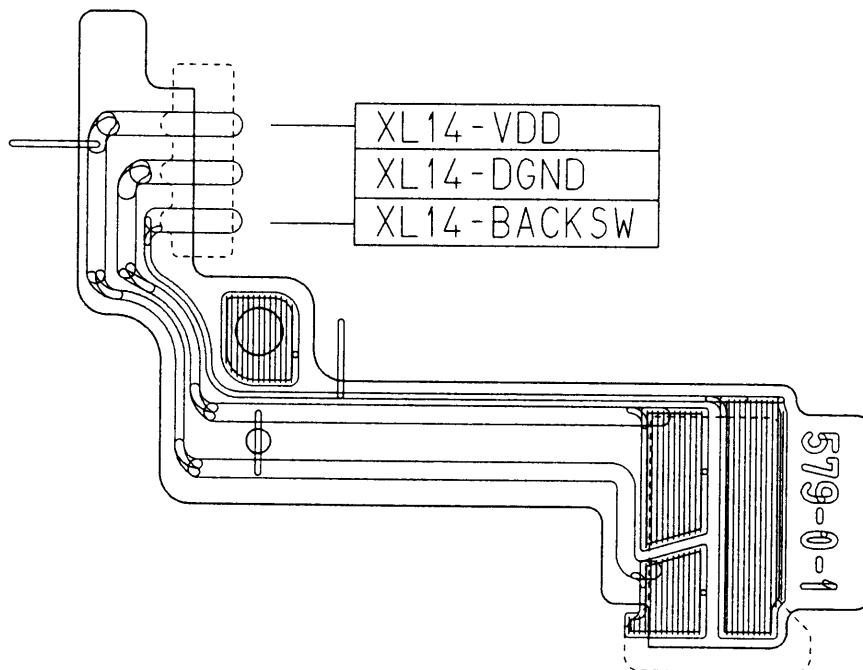
表面ランド名称入りパターン図
Front side pattern diagram with land name

レンズ接点FPC
LENS CONTACT FPC



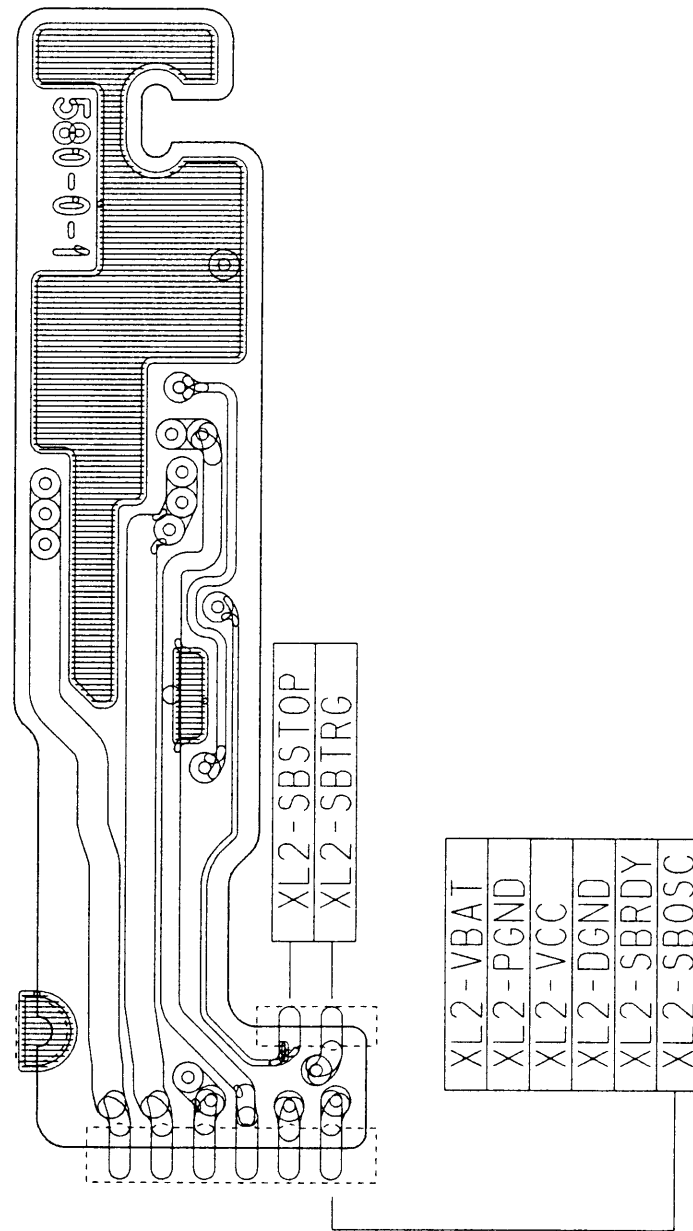
表面ランド名称入りパターン図
Front side pattern diagram with land name

裏蓋 SW FPC
 BACK DOOR SW FPC

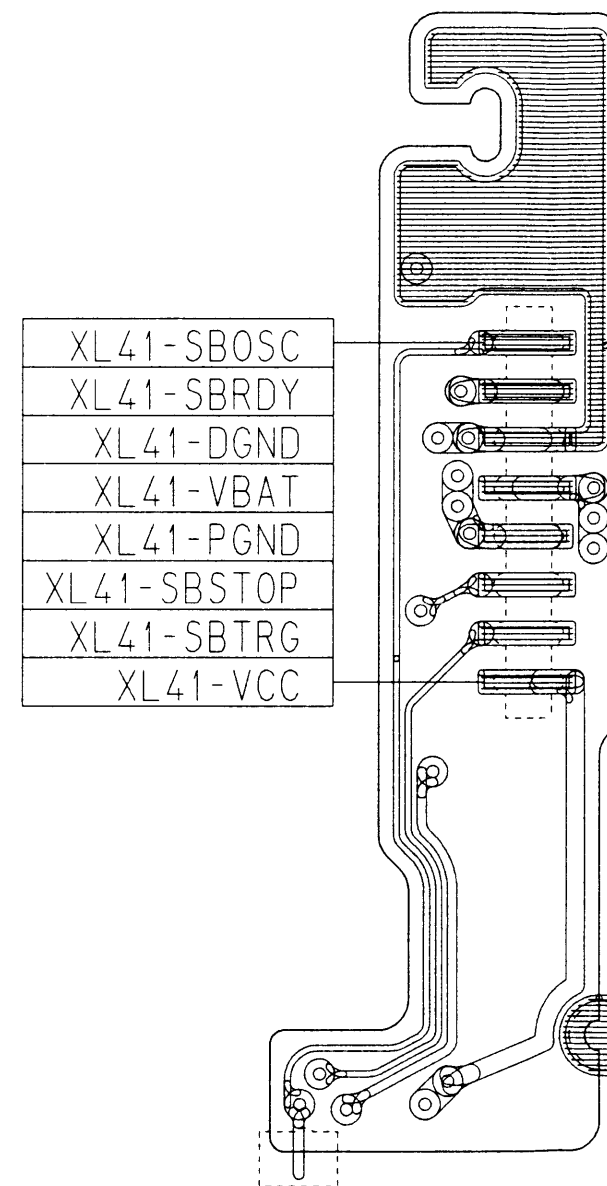


表面ランド名称入りパターン図
 Front side pattern diagram with land name

SBつなぎFPC
SB CONNECTION FPC

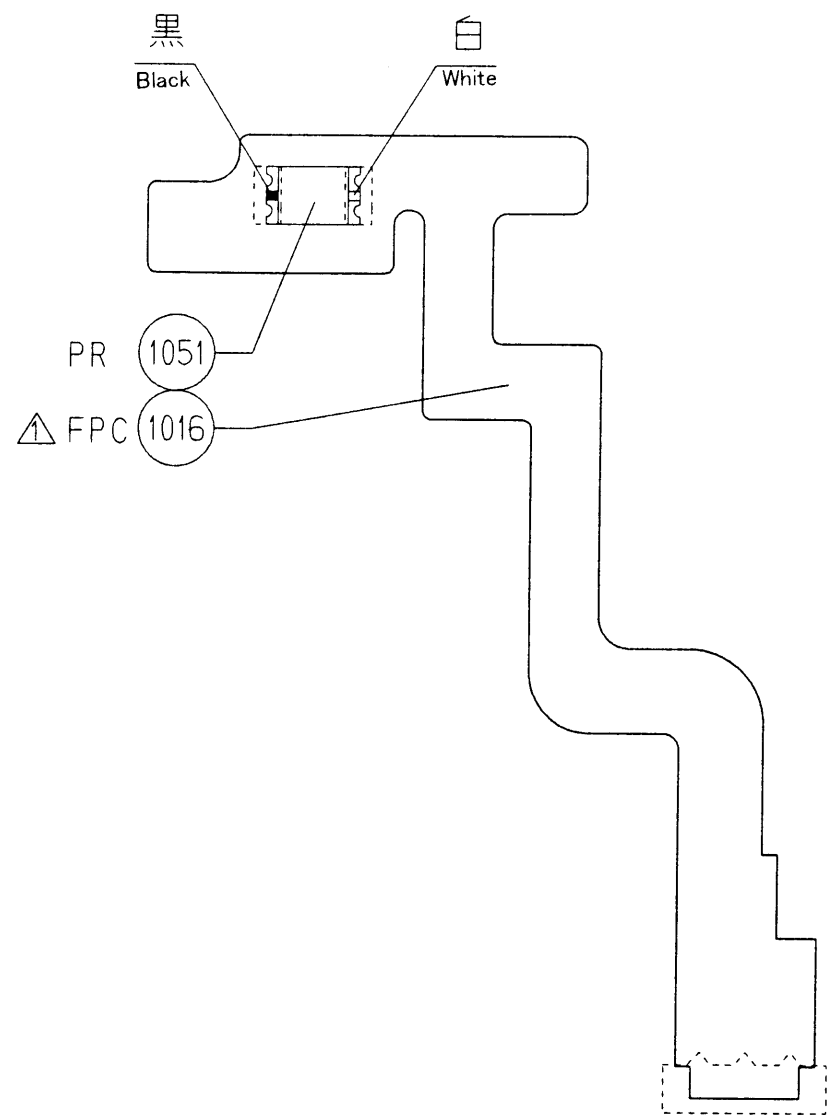


表面ランド名称入りパターン図
Front side pattern diagram with land name

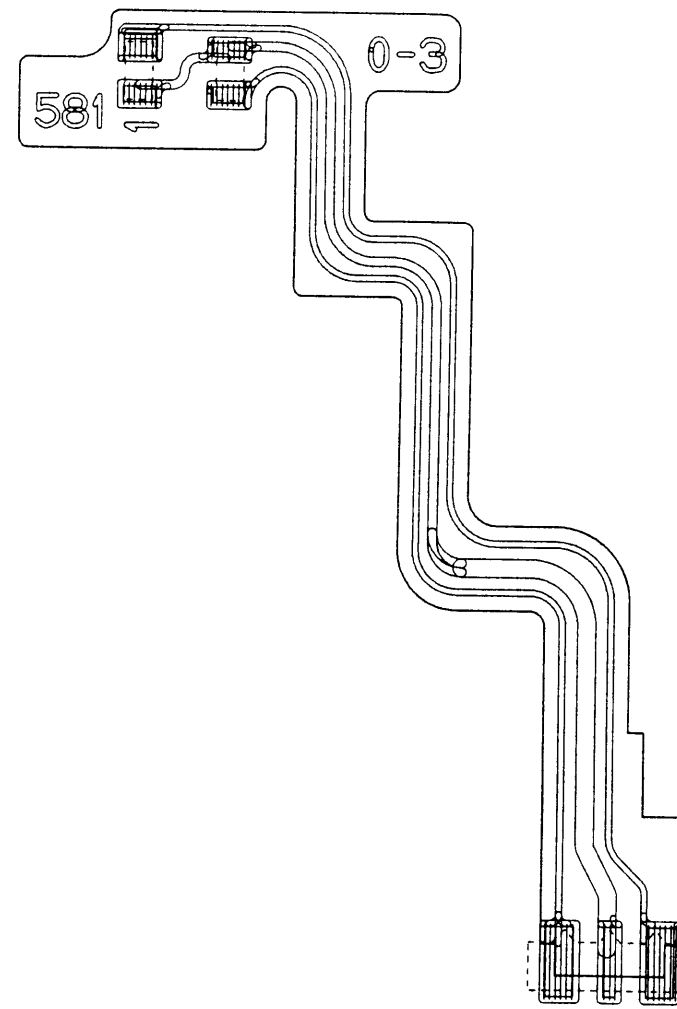


裏面ランド名称入りパターン図
Back side pattern diagram with land name

給送PR FPC
FILM ADVANCE FPC

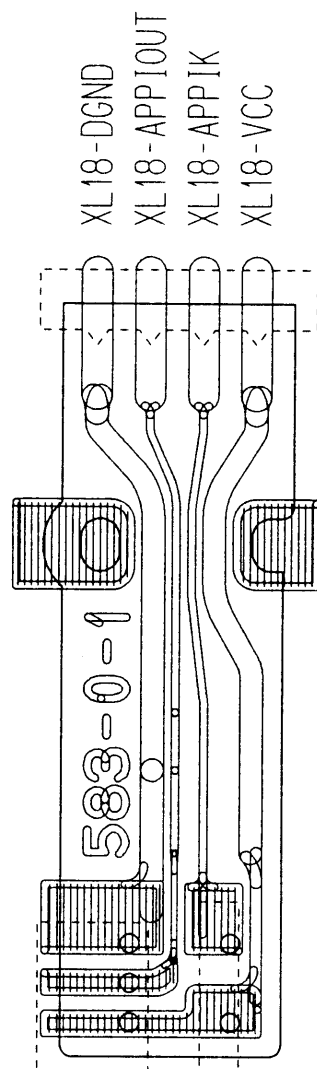


表面部品実装図
Front side parts location's diagram



表面ランド名称入りパターン図
Front side pattern diagram with land name

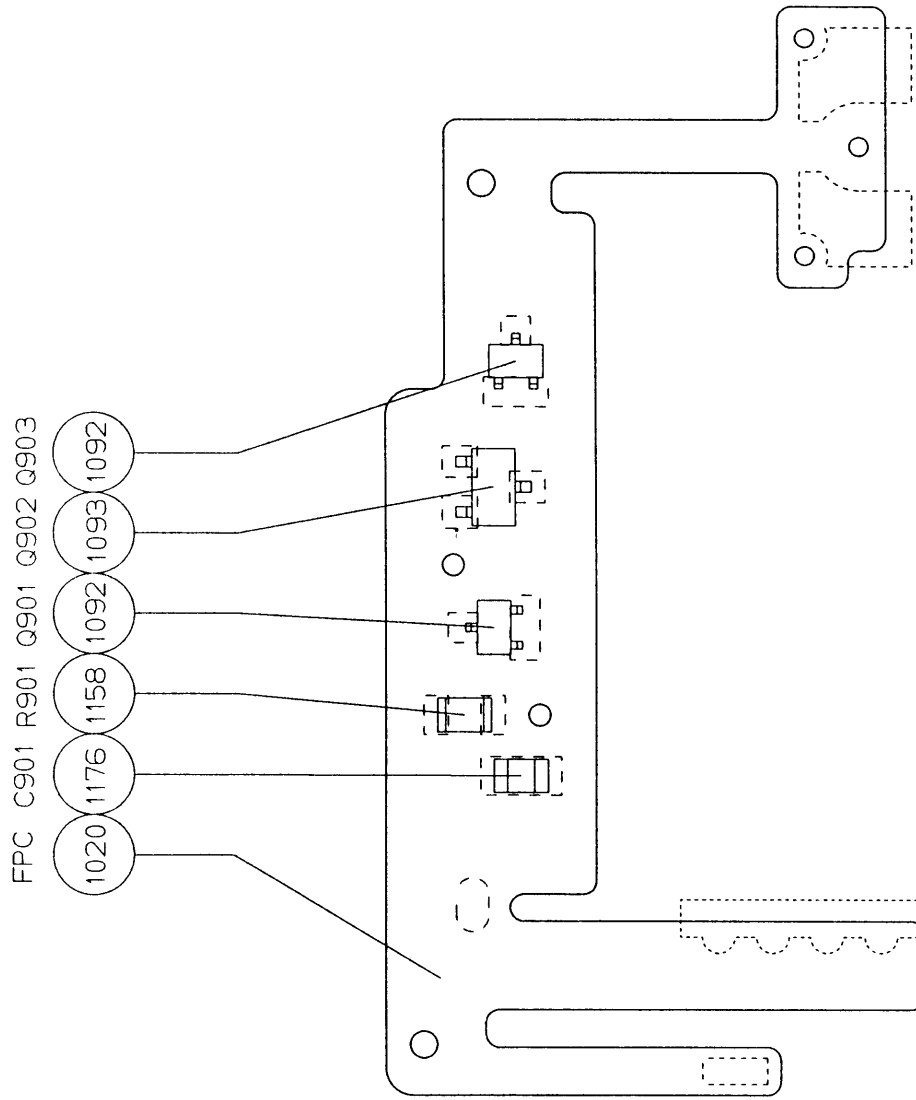
絞り P I F P C
APERTURE P I F P C



表面ランド名称入りパターン図

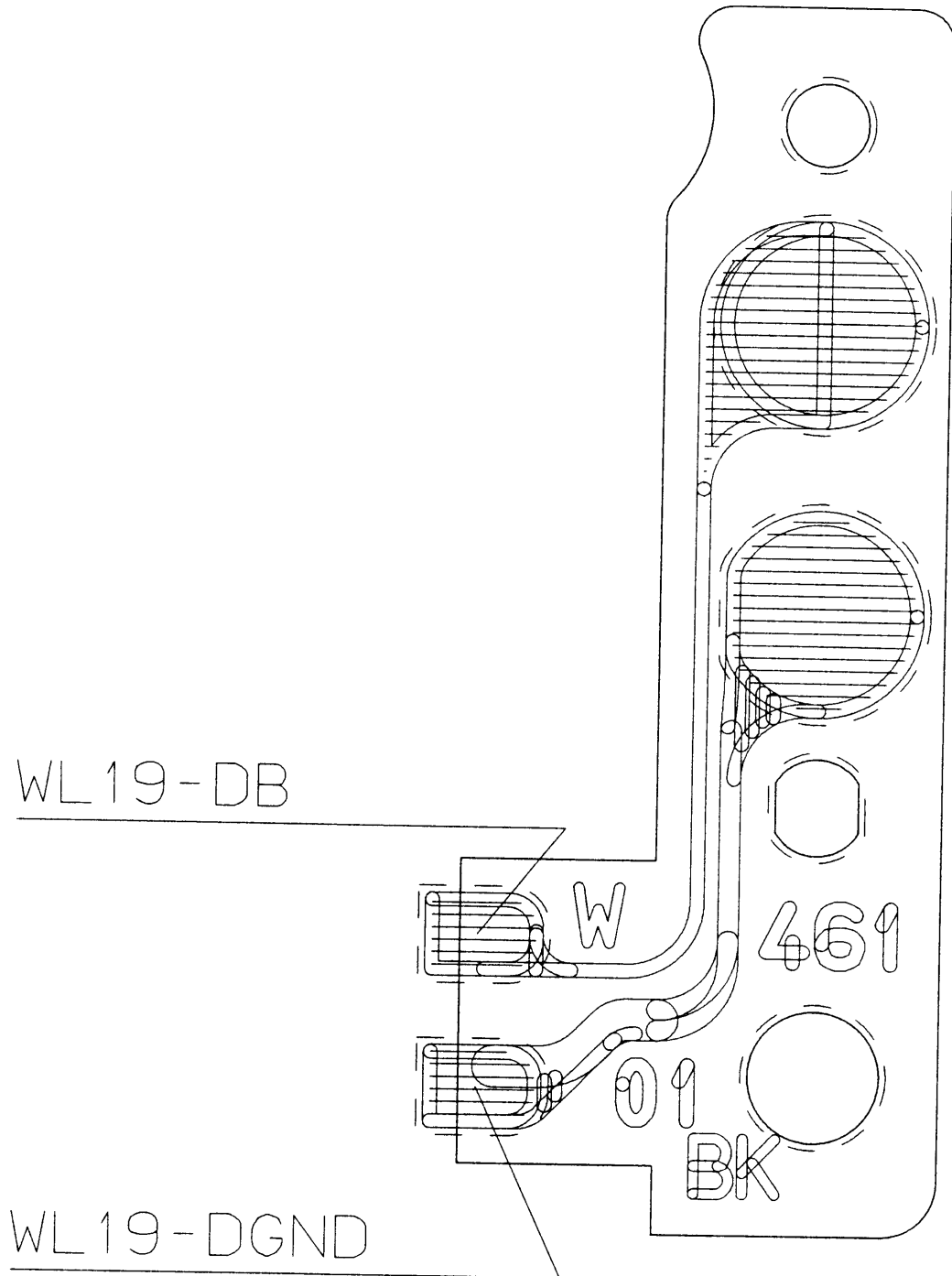
Front side pattern diagram with land name

データバック FPC
DATA BACK FPC



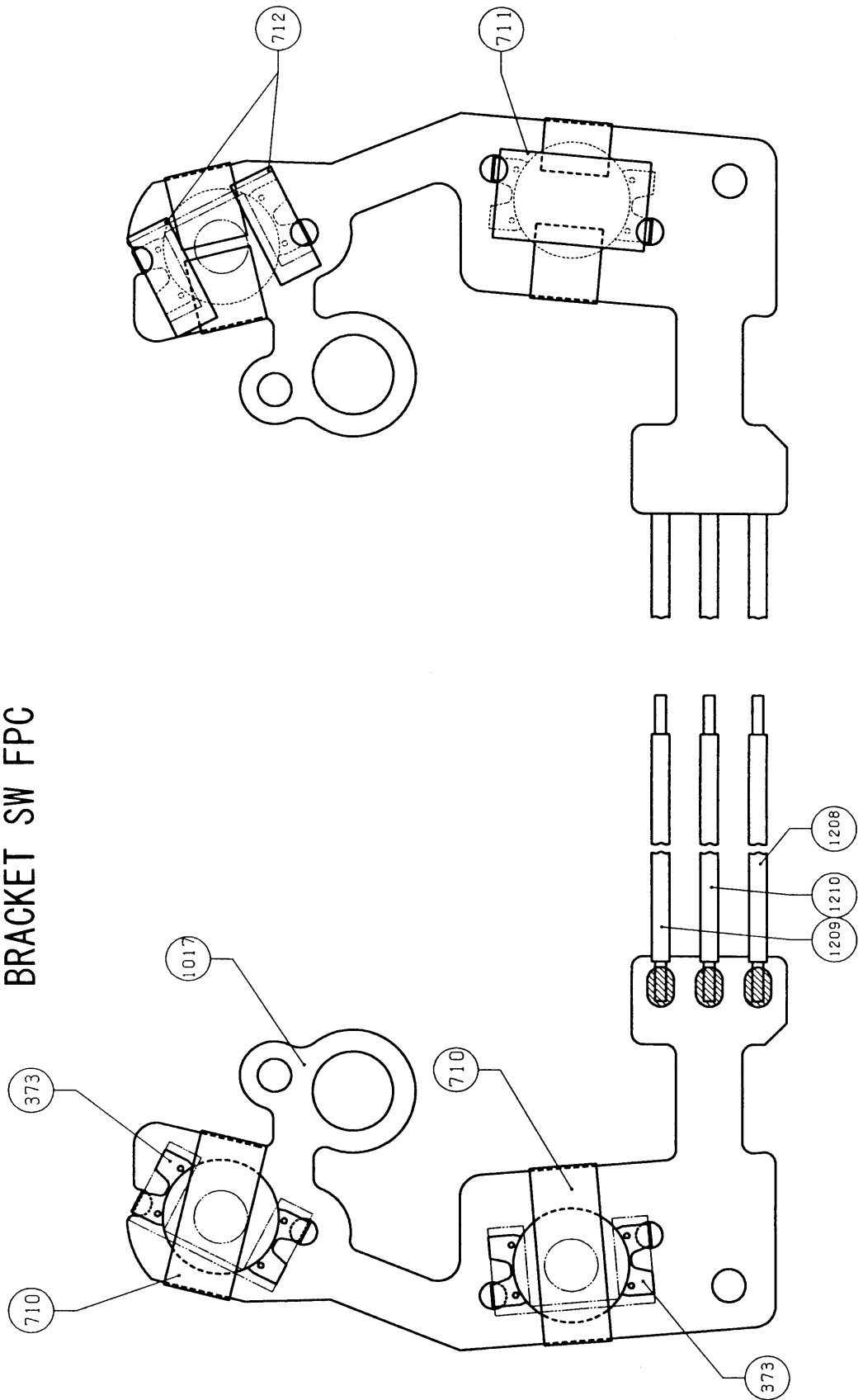
表面部品実装図
Front side parts location's diagram

DB 接点 F P C
DB CONTACT FPC



表面ランド名称入りパターン図
Front side pattern diagram with land name

ブラケットSW FPC
BRACKET SW FPC



F55/N55/Us EEPROM DATA

2001-12-14

ADDRESS	CONTENTS	CPU				REMARK
		MP 1				
0	CAMERA CONTROL DATA	0				
3 5	CAMERA CONTROL DATA	0				
3 6	CAMERA CONTROL DATA	6 1				
3 7	CAMERA CONTROL DATA	1 5 3				
3 8	CAMERA CONTROL DATA	5 9				
3 9	CAMERA CONTROL DATA	1 5 3				
4 0	CAMERA CONTROL DATA	1 9 3				
4 1	CAMERA CONTROL DATA	1 5 3				
4 2	CAMERA CONTROL DATA	6 3				
4 3	CAMERA CONTROL DATA	5 1				
4 4	CAMERA CONTROL DATA	6 5				
4 5	CAMERA CONTROL DATA	0				
4 6	AF ADJUSTMENT DATA	4 1				
4 7	AF ADJUSTMENT DATA	2				
4 8	MBF ADJUSTMENT DATA	0				
4 9	MBF ADJUSTMENT DATA	0				
5 0	AF ADJUSTMENT DATA	0				
5 1	AF ADJUSTMENT DATA	0				
7 6	AF ADJUSTMENT DATA	0				
7 7	AF ADJUSTMENT DATA	0				
7 8	CAMERA CONTROL DATA	5 4				
7 9	CAMERA CONTROL DATA	7 1				
8 0	CAMERA CONTROL DATA	5 9				
8 1	CAMERA CONTROL DATA	1 5 3				
8 2	CAMERA CONTROL DATA	6 0				
8 3	CAMERA CONTROL DATA	1 5 3				
8 4	CAMERA CONTROL DATA	5 9				
8 5	CAMERA CONTROL DATA	1 5 3				
8 6	CAMERA CONTROL DATA	6 3				

ADDRESS	CONTENTS	CPU					REMARK
		MP 1					
		03.05 or later					
8 7	CAMERA CONTROL DATA	1 0 2					
8 8	CAMERA CONTROL DATA	0					
8 9	CAMERA CONTROL DATA	2					
9 0	CAMERA CONTROL DATA	5 3					
9 1	CAMERA CONTROL DATA	1 3 7					
9 2	CAMERA CONTROL DATA	5 4					
9 3	CAMERA CONTROL DATA	7 1					
9 4	CAMERA CONTROL DATA	5 4					
9 5	CAMERA CONTROL DATA	6					
9 6	CAMERA CONTROL DATA	5 3					
9 7	CAMERA CONTROL DATA	1 3 7					
9 8	CAMERA CONTROL DATA	5 3					
9 9	CAMERA CONTROL DATA	1 3 7					
1 0 0	CAMERA CONTROL DATA	6 3					
1 0 1	CAMERA CONTROL DATA	1 0 2					
1 0 2	CAMERA CONTROL DATA	1 9 3					
1 0 3	CAMERA CONTROL DATA	1 0 2					
1 0 4	CAMERA CONTROL DATA	1 9 6					
1 0 5	CAMERA CONTROL DATA	1 5 3					
1 0 6	CAMERA CONTROL DATA	5 5					
1 0 7	CAMERA CONTROL DATA	6					
1 0 8	CAMERA CONTROL DATA	3 0					
1 0 9	CAMERA CONTROL DATA	0					
1 1 0	CAMERA CONTROL DATA	6 6					
1 1 1	CAMERA CONTROL DATA	1 2 8					
1 1 2	CAMERA CONTROL DATA	8 0					
1 1 3	CAMERA CONTROL DATA	0					
1 1 4	CAMERA CONTROL DATA	2 0 0					
1 1 5	CAMERA CONTROL DATA	0					
1 1 6	CAMERA CONTROL DATA	8 0					
1 1 7	CAMERA CONTROL DATA	0					
1 1 8	CAMERA CONTROL DATA	6 3					
1 1 9	CAMERA CONTROL DATA	1 0 2					

ADDRESS	CONTENTS	C P U					REMARK
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		03.05 or later					
1 2 0	CAMERA CONTROL DATA	0					
1 2 3	CAMERA CONTROL DATA	0					
1 2 4	CAMERA CONTROL DATA	0					
1 7 9	CAMERA CONTROL DATA	0					
1 8 0	M 1/2000 ADJUSTMENT DATA	0					
1 8 1	M 1/2000 ADJUSTMENT DATA	0					
1 8 2	CAMERA CONTROL DATA	1 6 0					
1 8 3	CAMERA CONTROL DATA	1 5					
1 8 4	CAMERA CONTROL DATA	0					
2 4 3	CAMERA CONTROL DATA	0					
2 4 4	BATTERY CHECK ADJUSTMENT	1 7 0					
2 4 5	BATTERY CHECK ADJUSTMENT	1 6 0					
2 4 6	BATTERY CHECK ADJUSTMENT	1 6 0					
2 4 7	BATTERY CHECK ADJUSTMENT	1 5 4					
2 4 8	CAMERA CONTROL DATA	1 3 0					
2 4 9	CAMERA CONTROL DATA	5					
2 5 0	CAMERA CONTROL DATA	1 0					
2 5 1	CAMERA CONTROL DATA	1 0					
2 5 2	CAMERA CONTROL DATA	1 7 1					
2 5 3	CAMERA CONTROL DATA	0					
2 5 4	CAMERA CONTROL DATA	1 7 6					
2 5 5	CAMERA CONTROL DATA	2 0 2					
2 5 6	CAMERA CONTROL DATA	2 0					
2 5 7	CAMERA CONTROL DATA	1 0 2					
2 5 8	CAMERA CONTROL DATA	0					
2 7 5	CAMERA CONTROL DATA	0					
2 7 6	CAMERA CONTROL DATA	1 2 5					
2 7 7	CAMERA CONTROL DATA	1 0					
2 7 8	CAMERA CONTROL DATA	2 2					

ADDRESS	CONTENTS	CPU					REMARK
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		03.05 or later					
2 7 9	CAMERA CONTROL DATA	7 0					
2 8 0	CAMERA CONTROL DATA	2 2 4					
2 8 1	CAMERA CONTROL DATA	2 4 6					
2 8 2	CAMERA CONTROL DATA	2 5 5					
2 8 3	CAMERA CONTROL DATA	0					
2 8 4	CAMERA CONTROL DATA	8 0					
2 8 5	CAMERA CONTROL DATA	1 0					
2 8 6	CAMERA CONTROL DATA	2 0 0					
2 8 7	CAMERA CONTROL DATA	0					
2 8 8	CAMERA CONTROL DATA	3 0					
2 8 9	CAMERA CONTROL DATA	1 0					
2 9 0	CAMERA CONTROL DATA	8 0					
2 9 1	CAMERA CONTROL DATA	5					
2 9 2	CAMERA CONTROL DATA	0					
3 1 5	CAMERA CONTROL DATA	0					
3 1 6	AE ADJUSTMENT DATA	1 2 8					
3 2 0	AE ADJUSTMENT DATA	1 2 8					
3 2 1	AE ADJUSTMENT DATA	1 0 4					
3 2 2	AE ADJUSTMENT DATA	6 0					
3 2 3	AE ADJUSTMENT DATA	0					
3 2 7	AE ADJUSTMENT DATA	0					
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3 2 9	CAMERA CONTROL DATA	0					
3 3 0	CAMERA CONTROL DATA	2 1 6					
3 3 1	CAMERA CONTROL DATA	2 5 4					
3 3 2	CAMERA CONTROL DATA	4 6					
3 3 3	CAMERA CONTROL DATA	2 8					
3 3 4	CAMERA CONTROL DATA	2 5 2					
3 3 5	CAMERA CONTROL DATA	3 2					
3 3 6	CAMERA CONTROL DATA	1 6					

ADDRESS	CONTENTS	C P U					REMARK
		MP 1					
		03.05 or later					
3 3 7	CAMERA CONTROL DATA	1 6					
3 3 8	CAMERA CONTROL DATA	1 0 0					
3 3 9	CAMERA CONTROL DATA	4 4					
3 4 0	CAMERA CONTROL DATA	6 0					
3 4 1	CAMERA CONTROL DATA	2 2 4					
3 4 2	CAMERA CONTROL DATA	0					
3 6 8	CAMERA CONTROL DATA	0					
3 6 9	CAMERA CONTROL DATA	3 2					
3 7 0	CAMERA CONTROL DATA	8					
3 7 1	CAMERA CONTROL DATA	1 6					
3 7 2	CAMERA CONTROL DATA	- 3					
3 7 3	CAMERA CONTROL DATA	2					
3 7 4	CAMERA CONTROL DATA	6					
3 7 5	CAMERA CONTROL DATA	6					
3 7 6	CAMERA CONTROL DATA	1 7 9					
3 7 7	CAMERA CONTROL DATA	1 7 9					
3 7 8	CAMERA CONTROL DATA	1 8 4					
3 7 9	CAMERA CONTROL DATA	1 8 4					
3 8 0	AF ADJUSTMENT DATA	0					
3 8 1	CAMERA CONTROL DATA	1 3 5					
3 8 2	AF ADJUSTMENT DATA	0					
3 8 3	CAMERA CONTROL DATA	1 6					
3 8 4	CAMERA CONTROL DATA	5					
3 8 5	CAMERA CONTROL DATA	0					
3 8 6	CAMERA CONTROL DATA	3 8					
3 8 7	CAMERA CONTROL DATA	1					
3 8 8	CAMERA CONTROL DATA	0					
3 8 9	CAMERA CONTROL DATA	0					
3 9 0	CAMERA CONTROL DATA	1 0					
3 9 1	CAMERA CONTROL DATA	0					
3 9 2	CAMERA CONTROL DATA	0					
3 9 3	CAMERA CONTROL DATA	8 0					

ADDRESS	CONTENTS	CPU					REMARK
		MP 1					
		03.05 or later					
3 9 4	AF ADJUSTMENT DATA	0					
4 0 3	AF ADJUSTMENT DATA	0					
4 0 4	AF ADJUSTMENT DATA	0					
4 0 9	AF ADJUSTMENT DATA	0					
4 1 0	AF ADJUSTMENT DATA	0					
4 1 5	AF ADJUSTMENT DATA	0					
4 1 6	AF ADJUSTMENT DATA	0					
4 2 1	AF ADJUSTMENT DATA	0					
4 2 2	AF ADJUSTMENT DATA	0					
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4 3 2	AF ADJUSTMENT DATA	0					
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4 3 8	AF ADJUSTMENT DATA	0					
4 4 3	AF ADJUSTMENT DATA	0					
4 4 4	AF ADJUSTMENT DATA	0					
4 4 9	AF ADJUSTMENT DATA	0					
4 5 0	CAMERA CONTROL DATA	0					
4 5 4	AF ADJUSTMENT DATA	0					
4 5 5	AF ADJUSTMENT DATA	0					
5 3 0	AF ADJUSTMENT DATA	0					
5 7 2	AF ADJUSTMENT DATA	0					

ADDRESS	CONTENTS	C P U					REMARK
		MP 1					
		03.05 or later					
6 1 4	AF ADJUSTMENT DATA	0					
6 5 5	AF ADJUSTMENT DATA	0					
6 5 6	CAMERA CONTROL DATA	2 5					
6 5 7	CAMERA CONTROL DATA	0					
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6 6 1	AF ADJUSTMENT DATA	2 3 7					
6 6 2	CAMERA CONTROL DATA	1 6 9					
6 6 3	CAMERA CONTROL DATA	3 2					
6 6 4	AF ADJUSTMENT DATA	0					
6 6 7	AF ADJUSTMENT DATA	0					
6 6 8	AF ADJUSTMENT DATA	0					
6 7 1	AF ADJUSTMENT DATA	0					
6 7 2	AF ADJUSTMENT DATA	1 5					
6 7 3	AF ADJUSTMENT DATA	1 2					
6 7 4	AF ADJUSTMENT DATA	1 2					
6 7 5	AF ADJUSTMENT DATA	1 2					
6 7 6	AF ADJUSTMENT DATA	1 0 5					
6 7 7	AF ADJUSTMENT DATA	7 3					
6 7 8	AF ADJUSTMENT DATA	7 3					
6 7 9	AF ADJUSTMENT DATA	7 3					
6 8 0	CAMERA CONTROL DATA	1 0 0					
6 8 1	CAMERA CONTROL DATA	3 7					
6 8 2	CAMERA CONTROL DATA	2					
6 8 3	CAMERA CONTROL DATA	2 0					
6 8 4	CAMERA CONTROL DATA	1 7 9					
6 8 5	CAMERA CONTROL DATA	5 1					
6 8 6	CAMERA CONTROL DATA	7 1					
6 8 7	CAMERA CONTROL DATA	1 1 2					
6 8 8	CAMERA CONTROL DATA	6 4					

ADDRESS	CONTENTS	C P U					REMARK
		MP 1					
		03.05 or later					
6 8 9	CAMERA CONTROL DATA	1 2					
6 9 0	CAMERA CONTROL DATA	1					
6 9 1	CAMERA CONTROL DATA	8 8					
6 9 2	CAMERA CONTROL DATA	5 1					
6 9 3	CAMERA CONTROL DATA	6					
6 9 4	CAMERA CONTROL DATA	1 1 2					
6 9 5	CAMERA CONTROL DATA	4					
6 9 6	CAMERA CONTROL DATA	6 4					
6 9 7	CAMERA CONTROL DATA	1 6					
6 9 8	CAMERA CONTROL DATA	1 2 8					
6 9 9	CAMERA CONTROL DATA	1 6					
7 0 0	CAMERA CONTROL DATA	3 2					
7 0 1	CAMERA CONTROL DATA	3 8					
7 0 2	CAMERA CONTROL DATA	3 8					
7 0 3	CAMERA CONTROL DATA	1 0					
7 0 4	CAMERA CONTROL DATA	8					
7 0 5	CAMERA CONTROL DATA	8					
7 0 6	CAMERA CONTROL DATA	0					
7 0 7	CAMERA CONTROL DATA	5					
7 0 8	CAMERA CONTROL DATA	7 5					
7 0 9	CAMERA CONTROL DATA	6 4					
7 1 0	CAMERA CONTROL DATA	2 0					
7 1 1	CAMERA CONTROL DATA	0					
7 1 2	CAMERA CONTROL DATA	0					
7 1 3	CAMERA CONTROL DATA	1 0 4					
7 1 4	CAMERA CONTROL DATA	3					
7 1 5	AE ADJUSTMENT DATA	0					
7 1 8	AE ADJUSTMENT DATA	0					
7 1 9	AE ADJUSTMENT DATA	2 4 0					
7 2 2	AE ADJUSTMENT DATA	2 4 0					
7 2 3	AE ADJUSTMENT DATA	2 0 8					

ADDRESS	CONTENTS	CPU					REMARK
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		03.05 or later					
7 2 6	CAMERA CONTROL DATA	2 0 8					
7 2 7	CAMERA CONTROL DATA	1 9 2					
7 3 0	CAMERA CONTROL DATA	1 9 2					
7 3 1	CAMERA CONTROL DATA	4 0					
7 3 2	CAMERA CONTROL DATA	0					
7 5 3	CAMERA CONTROL DATA	0					
7 5 4	CAMERA CONTROL DATA	1 4 9					
7 5 5	CAMERA CONTROL DATA	1 2 8					
7 5 6	CAMERA CONTROL DATA	1 0					
7 5 7	CAMERA CONTROL DATA	5 0					
7 5 8	CAMERA CONTROL DATA	1 5 0					
7 5 9	CAMERA CONTROL DATA	8 0					
7 6 0	CAMERA CONTROL DATA	2 2					
7 6 1	CAMERA CONTROL DATA	2 9					
7 6 2	CAMERA CONTROL DATA	2 9					
7 6 3	CAMERA CONTROL DATA	3 9					
7 6 4	CAMERA CONTROL DATA	1 1 0					
7 6 5	CAMERA CONTROL DATA	4 8					
7 6 6	CAMERA CONTROL DATA	0					
7 6 7	CAMERA CONTROL DATA	1 0 0					
7 6 8	CAMERA CONTROL DATA	1 0 0					
7 6 9	CAMERA CONTROL DATA	8 5					
7 7 0	CAMERA CONTROL DATA	6 0					
7 7 1	CAMERA CONTROL DATA	4 0					
7 7 2	CAMERA CONTROL DATA	3 0					
7 7 3	CAMERA CONTROL DATA	3 9					
7 7 4	CAMERA CONTROL DATA	4					
7 7 5	CAMERA CONTROL DATA	1 4					
7 7 6	CAMERA CONTROL DATA	6					
7 7 7	CAMERA CONTROL DATA	0					

ADDRESS	CONTENTS	C P U					REMARK
		MP 1					
		03.05 or later					
7 7 8	CAMERA CONTROL DATA	0					
7 7 9	CAMERA CONTROL DATA	0					
7 8 0	CAMERA CONTROL DATA	0					
7 8 1	APERTURE ADJUSTMENT DATA	5 3					
7 8 2	CAMERA CONTROL DATA	2 9					
7 8 3	CAMERA CONTROL DATA	9 8					
7 8 4	CAMERA CONTROL DATA	1 7 0					
7 8 5	CAMERA CONTROL DATA	5 0					
7 8 6	CAMERA CONTROL DATA	1 2 0					
7 8 7	CAMERA CONTROL DATA	2 2					
7 8 8	CAMERA CONTROL DATA	3 9					
7 8 9	CAMERA CONTROL DATA	3 9					
7 9 0	CAMERA CONTROL DATA	3 9					
7 9 1	CAMERA CONTROL DATA	1 0					
7 9 2	CAMERA CONTROL DATA	0					
7 9 3	CAMERA CONTROL DATA	1 7 6					
7 9 4	CAMERA CONTROL DATA	2 2					
7 9 5	CAMERA CONTROL DATA	2 7					
7 9 6	CAMERA CONTROL DATA	3 9					
7 9 7	CAMERA CONTROL DATA	3 9					
7 9 8	CAMERA CONTROL DATA	1 6					
7 9 9	CAMERA CONTROL DATA	8					
8 0 0	CAMERA CONTROL DATA	2 0					
8 0 1	CAMERA CONTROL DATA	2 0					
8 0 2	CAMERA CONTROL DATA	8					
8 0 3	CAMERA CONTROL DATA	2 8					
8 0 4	CAMERA CONTROL DATA	2 8					
8 0 5	CAMERA CONTROL DATA	0					
8 0 6	CAMERA CONTROL DATA	2 8					
8 0 7	CAMERA CONTROL DATA	2 8					
8 0 8	CAMERA CONTROL DATA	0					
8 0 9	CAMERA CONTROL DATA	2 8					
8 1 0	CAMERA CONTROL DATA	2 8					

ADDRESS	CONTENTS	C P U					REMARK
		MP 1					
		03.05 or later					
8 1 1	CAMERA CONTROL DATA	0					
8 1 2	CAMERA CONTROL DATA	- 4 5					
8 1 3	CAMERA CONTROL DATA	- 4 5					
8 1 4	CAMERA CONTROL DATA	1 0 0					
8 1 5	CAMERA CONTROL DATA	- 4 5					
8 1 6	CAMERA CONTROL DATA	- 4 5					
8 1 7	CAMERA CONTROL DATA	1 0 0					
8 1 8	CAMERA CONTROL DATA	- 4 5					
8 1 9	CAMERA CONTROL DATA	- 4 5					
8 2 0	CAMERA CONTROL DATA	1 0 0					
8 2 1	CAMERA CONTROL DATA	1 0					
8 2 2	CAMERA CONTROL DATA	0					
8 2 3	CAMERA CONTROL DATA	1 5 0					
8 2 4	CAMERA CONTROL DATA	1 0					
8 2 5	CAMERA CONTROL DATA	6 0					
8 2 6	CAMERA CONTROL DATA	5 2					
8 2 7	CAMERA CONTROL DATA	6 0					
8 2 8	CAMERA CONTROL DATA	1 0					
8 2 9	CAMERA CONTROL DATA	1 2 8					
8 3 0	CAMERA CONTROL DATA	1 0					
8 3 1	CAMERA CONTROL DATA	5 2					
8 3 2	CAMERA CONTROL DATA	3 0					
8 3 3	CAMERA CONTROL DATA	0					
8 3 4	CAMERA CONTROL DATA	5					
8 3 5	CAMERA CONTROL DATA	1 2 8					
8 3 6	CAMERA CONTROL DATA	7 5					
8 3 7	CAMERA CONTROL DATA	7					
8 3 8	CAMERA CONTROL DATA	4					
8 3 9	CAMERA CONTROL DATA	2 9					
8 4 0	CAMERA CONTROL DATA	6 0					
8 4 1	CAMERA CONTROL DATA	1 0					
8 4 2	CAMERA CONTROL DATA	1 0					
8 4 3	CAMERA CONTROL DATA	0					

ADDRESS	CONTENTS	C P U					REMARK
		MP 1					
		03.05 or later					
8 4 4	CAMERA CONTROL DATA	1 7 6					
8 4 5	CAMERA CONTROL DATA	2 4					
8 4 6	CAMERA CONTROL DATA	3 1					
8 4 7	CAMERA CONTROL DATA	3 9					
8 4 8	CAMERA CONTROL DATA	3 9					
8 4 9	CAMERA CONTROL DATA	1 6					
8 5 0	CAMERA CONTROL DATA	1 0					
8 5 1	CAMERA CONTROL DATA	2 9					
8 5 2	CAMERA CONTROL DATA	2 0					
8 5 3	CAMERA CONTROL DATA	8					
8 5 4	CAMERA CONTROL DATA	2 8					
8 5 5	CAMERA CONTROL DATA	2 8					
8 5 6	CAMERA CONTROL DATA	0					
8 5 7	CAMERA CONTROL DATA	2 1 1					
8 5 8	CAMERA CONTROL DATA	2 1 1					
8 5 9	CAMERA CONTROL DATA	1 0 0					
8 6 0	CAMERA CONTROL DATA	1 0					
8 6 1	CAMERA CONTROL DATA	0					
8 6 2	CAMERA CONTROL DATA	0					
8 6 3	CAMERA CONTROL DATA	1 0 0					
8 6 4	CAMERA CONTROL DATA	1 5 0					
8 6 5	CAMERA CONTROL DATA	2 5					
8 6 6	CAMERA CONTROL DATA	1 5					
8 6 7	CAMERA CONTROL DATA	1 7 0					
8 6 8	CAMERA CONTROL DATA	1 1 0					
8 6 9	CAMERA CONTROL DATA	2 0					
8 7 0	CAMERA CONTROL DATA	3 9					
8 7 1	CAMERA CONTROL DATA	2 9					
8 7 2	CAMERA CONTROL DATA	3 9					
8 7 3	CAMERA CONTROL DATA	2					
8 7 4	CAMERA CONTROL DATA	1 0					
8 7 5	CAMERA CONTROL DATA	2 5 0					
8 7 6	CAMERA CONTROL DATA	1 6 0					

ADDRESS	CONTENTS	C P U					REMARK
		MP 1					
		03.05 or later					
8 7 7	CAMERA CONTROL DATA	1 1 0					
8 7 8	CAMERA CONTROL DATA	2 4					
8 7 9	CAMERA CONTROL DATA	4 3					
8 8 0	CAMERA CONTROL DATA	2 9					
8 8 1	CAMERA CONTROL DATA	4 9					
8 8 2	TTL ADJUSTMENT DATA	1 3 3					
8 8 3	TTL ADJUSTMENT DATA	9 6					
8 8 4	CAMERA CONTROL DATA	7 0					
8 8 5	CAMERA CONTROL DATA	1 0					
8 8 6	CAMERA CONTROL DATA	2					
8 8 7	CAMERA CONTROL DATA	1 7 9					
8 8 8	CAMERA CONTROL DATA	9 8					
8 8 9	CAMERA CONTROL DATA	1 0					
8 9 0	CAMERA CONTROL DATA	5 9					
8 9 1	CAMERA CONTROL DATA	0					
8 9 2	CAMERA CONTROL DATA	0					
8 9 3	CAMERA CONTROL DATA	0					
8 9 4	CAMERA CONTROL DATA	1 0 0					
8 9 5	CAMERA CONTROL DATA	0					
8 9 6	CAMERA CONTROL DATA	5 8					
8 9 7	CAMERA CONTROL DATA	1 0 8					
8 9 8	CAMERA CONTROL DATA	0					
9 2 6	CAMERA CONTROL DATA	0					
9 2 7	CHECK SUM DATA	—					
9 6 0	CAMERA CONTROL DATA	—					
1023	CAMERA CONTROL DATA	—					

INSPECTION CRITERIA and TOOLS

[1] Inspection Criteria	R 1
[2] Tools	T 1

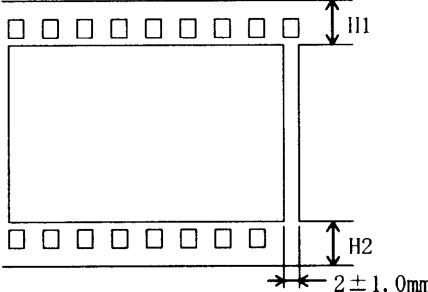
CONDITION FOR INSPECTION

Normal temperature : $20 \pm 5^{\circ}\text{C}$ Humidity : $65 \pm 20\%$
Power source : $5.5 \pm 0.03\text{ V}$ 5 A or more at $0.5\ \Omega$ load
Light source : 2856° K
K coefficient : 1.16
Camera : Finished Product

INSPECTION CRITERIA

●When using the power supply, set the output to 5.5V with a resistance of 0.5Ω.

INSPECTION ITEM	CRITERIA	REMARKS
Shutter System (1)Tolerance (2)Curtain Speed (3)Dispersion (4)Curtain Bound	1/2000~1/1500 : $0 \pm 0.45\text{EV}$ 1/1500~30s : $0 \pm 0.3\text{EV}$ 6.9ms or less 1/2000~1/180 : Within 0.45EV 1/180~30s : Within 0.3EV There should be on curtain bound.	Exposure Mode : M, S Shutter tester (EF-8000) 21mm
AE Image Surface Exposure (1)Tolerance	1/2000~1/125 : $\pm 0.65\text{EV}$ less than 1/125 : $\pm 0.5\text{EV}$	Exposure Mode : P, A, S Shutter tester (EF-8000) AF50/1.4D
AE Diaphragm Control Accuracy (1)Tolerance (2)Dispersion	LV12 (ISO 100)、1/125 From the maximum aperture to 4th stop aperture : $\pm 0.5\text{EV}$ From F8 to the minimum aperture : $\pm 0.65\text{EV}$ Within 0.5EV	Exposure Mode : S Shutter tester (EF-8000) AF50/1.4D
AF Adjustment Accuracy (1)Yaw (2)Pitch (3)Lark	Center : $0 \pm 4\text{mrad}$ Side : $0 \pm 10\text{mrad}$ Center : $0 \pm 5\text{mrad}$ Side : $0 \pm 10\text{mrad}$ $0 \pm 50\mu\text{m}$	Personal Computer and other special tools
Diaphragm Lever Height	$3.4 \pm 0.1\text{mm}$	J18004
Main Mirror 45° (Collimator Measured Value)	Upper/Lower : $\pm 15'$ Right/Left : $\pm 30'$ Distortion : Within $8'$	When it is stood up, there should be no gap. J19002 · J15391 · J18037
Sub-Mirror 47.75°	Upper/Lower : $-5' +20' \sim -45'$ Distortion : Within $8'$	J19002 · J18268-1 Hex key Wrench
M. B. F	Outer Rail : $46.67 \pm 0.06\text{mm}$ Outer Rail Parallelism : Within 0.08mm Height Difference between Inner and Outer Rails : 0.21mm~0.26mm Aperture Surface Stage Difference of Inner Rail : 0.26mm or more	J18001 Dial Gauge
∞ (Infinity)Agreement	$\pm 100\mu\text{m}$	J18010

INSPECTION ITEM	CRITERIA	REMARKS
Battery Check (1)First Level (2)Second Level	Reducing Direction : $5.0V \pm 0.2V$ Returning Direction : $5.3V \pm 0.2V$ Reducing Direction : $4.8V \pm 0.2V$ Returning Direction : $5.0V \pm 0.2V$	Power Supply
Image Plane Size (50/1.4 F5.6) Image Plane Position	Length : $24^{+0.4}_0$ mm / Width : $36^{+0.4}_0$ mm [H 1 - H 2] = ± 0.4 mm or less 	Calipers ISO 100 Film
Frame Interval	2 ± 1.0 mm	
Consumption Current Items④ and later, the values are products of consumption current and operating time	①Main Switch is OFF : $30 \mu A$ or less ②Main Switch is ON and Half-Push Timer is OFF : $200 \mu A$ or less ③Main Switch is ON and Half-Push Timer is ON : $110 \mu A$ or less ④AF50/1.8 Lens is driven : 500mA sec or less (Operating Time : 1.2 sec or less) ⑤AF70-300/4.5-5.6G Lens is driven : $800 \mu A \text{ sec}$ or less (Operating Time : 2.2 sec or less) ⑥Empty Release : $170 \mu A \text{ sec}$ or less (Operating Time : 280ms or less) ⑦Empty Feeding (prewind) : 4000mA sec or less (Operating Time : 15 sec or less) ⑧Film Winding : 200mA sec or less (Operating Time : 420ms or less) ⑨Film Rewinding : 750mA sec or less (Operating Time : 3.5 sec or less)	
Half-Push Timer Time	After Half-Push Switch OFF : Power should be turned OFF 5 ± 1 sec later. ----- After Releasing : Power should be turned OFF 2 ± 1 sec later.	
Half-Push Timer Time (When using the built-in and external speed light)	After Half-Push Switch OFF : Power should be turned OFF 5 ± 1 sec later. ----- After Releasing : Power should be turned OFF 5 ± 1 sec later.	
Shutter Time Battery life	4 hours or more	
Brightness for AF Assist Light turned ON	Brightness for Light turned ON (50/1.8) : It should be turned ON and equivalent to EV5 or less	
Finder	Visuality Ration : Vertical and Horizontal $89 \pm 3\%$	
	Parallax : Upper/Lower, Right/Left : Within 0.5mm	
	Eye Point : Distance from eyepiece ($-1.52 \text{m}^{-1}(\text{dpt})$ の時) $15.87 \text{mm} - 10\%$ ($+0.76 \text{m}^{-1}(\text{dpt})$ の時) $23.05 \text{mm} - 10\%$	

工 具 TOOLS

工具番号 TOOLS No.	名 称 NAME	備 考 Others
J15315-2	カメラ通信工具 CAMERA COMMUNICATION TOOL	For F70, F50 F60, F80
J18314	RS232C 用電源工具 POWER SUPPLY FOR RS232C	
J19109	MC-31	For F5, F100 F80
J18266	AF 調整用 Z レンズ (1 m 用) AF TESTING LENS (For 1 m)	For F5, F100
J15391	45° 出し工具 (反射ミラー) TOOL MIRROR	
J18268-1	サブミラー 45° 出し工具 SUB MIRROR ANGLE ADJUSTMENT TOOL	For F5, F100
J18273	AF チャート AF ADJUSTMENT CHART	For F5, F100 F80
J18230	YAE, PITCH 工具 YAE, PITCH ADJUSTMENT TOOL	For F5, F100 F90, F90X
J18336	点検・調整ソフト IBM 3.5 インチ INSPECTION & ADJUSTMENT F.D. FOR IBM PC 3.5'	

注意 : J18268-1 サブミラー 45° 出し工具は、前ボディにシャッターを取付けた後、使用できません。

Note : Do not use J18268-1 after mounting the shutter to the front body.