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图55

**FAA39001 FAA39011** FAA39211 FAA39221

**\**\55

**FAA39101 FAA39301** 

US

FAA39201

REPAIR MANUAL



Recycled paper

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#### **SPECIFICATION**

1. Viewfinder

Type : Hollow Pentagonal Type Single Lens Reflex Finder

Finder Screen : B-type Clear Mat Screen V

Finder Replacement : Unavailable : Unavailable Screen Replacement

Finder Visuality Ratio : Approx. 87% both vertically and horizontally

Magnification  $: 0.675 \text{ times at } -1.52 \text{m}^{-1} \text{ (dpt)}$ 

 $0.604 \text{ times at } +0.77 \text{m}^{-1} \text{ (dpt)}$ 

(50mm lens is used.  $\infty$ )

Diopter : -1.52 to +0.77m $^{-1}$  (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 +0.77m<sup>-1</sup> (dpt)) 17.05mm (at -1m<sup>-1</sup> (dpt))

Eyepiece Frame : Rectangular Shape (F-401 type, new-eye eyepiece rubber is equipped.)

: 3 elements in 3 groups (Material; polycarbonate, acrylic) Eyepiece Lens

#### 2. Shutter

(1) Electronically controlled vertical travel focal plane shutter

②Max. Shutter Speed 1/2000, At Synchronous Speed 1/90

③Curtain Speed Approx. 8msec (24mm Image plane)

Traveling Direction Vertical-travel (Up)

**⑤The Number of Blade** Front curtain 4 elements Rear curtain 4 elements **6**Material of Blade

Aluminum Blade and Plastic Blade are used together

**©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

②Control 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

(1)System

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

(3) ISO Interlocking Range ISO 25 to 800 (Built-in/External in common)

(4) Built-in Speed light Auto Flash System

Exposure Mode P, S, A, AUTO, Image program: TTL-BL

(5) Full Output Warning

Ready-light in the finder blinks (For 3 to 4 sec.)

#### 5. External Speed light

(1)Communication

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.)

(3)Usable 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.)

(4) Red Eve 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.

2)Guide No.

12 (ISO 100 · m)

**③Illuminating Angle** 

Cover the 28mm lens

**4** Charging Time

Approx. 3 sec.

(5) Red Eve 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

(4) Usable 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 Continuos Mode DIFFICULT)

**©Tracking Drive** 

Single AF servo at Auto AF servo and Continuous Servo AF mode are available

**TFocus 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.

(8) AF-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)

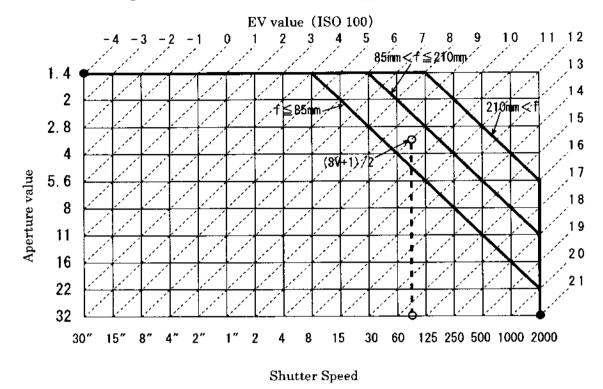
Assist illuminator of the body fires also when using the external

speedlight with the assist illuminator.

#### 8. Program Diagram

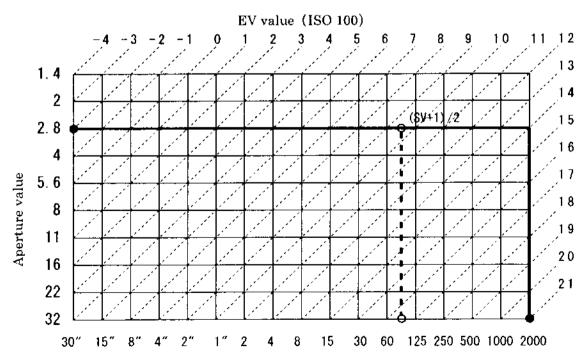
When not using the speed light ———— When using the built in speed light

# ( 1 ) Auto-Multi Program Mode ( P ) and AUTO Mode ( $\stackrel{\text{AUIO}}{\longleftarrow}$ )



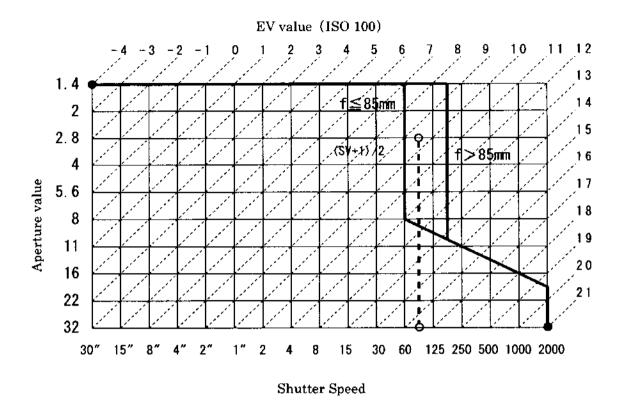
In the control diagram, the limit of the control aperture value at the aperture side is mentioned 1.4, but on the control, the aperture value is available up to 1.0 and the limit is not made. (Since no lens of which aperture value is more than 1.4 can be controlled, the aperture value more than 1.4 is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

## (2) Portrait Mode (🙎)

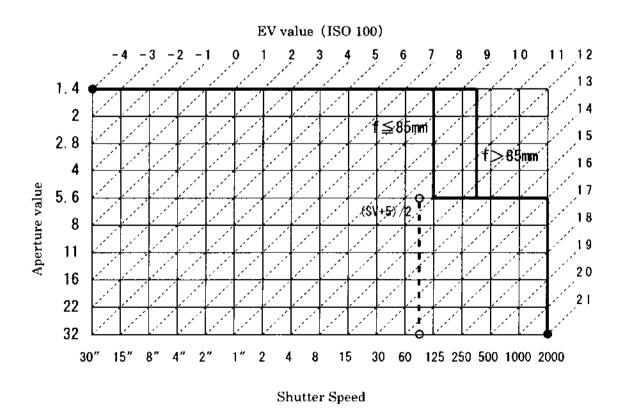


Shutter Speed

#### (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
TTI. 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

# **MARNING**



- ◆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.

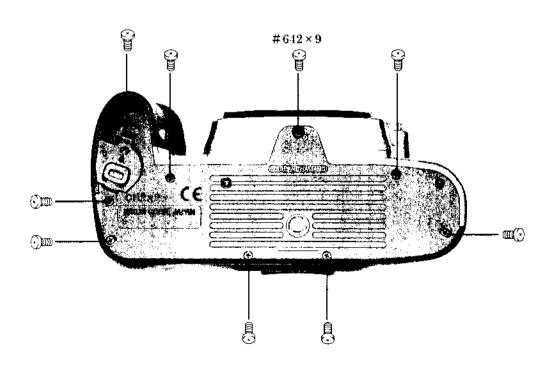
Arrangement of wires might be changed depending on the period of manufacturing.

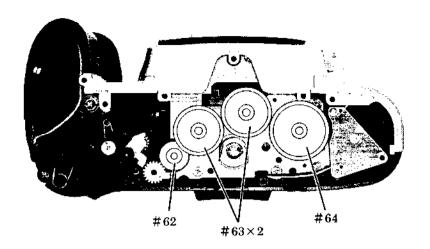
- ②Be sure to take off the battery before disassembly.
- 3At disassembly, make sure to memorize how to arrange the wires, how to fix the screws, and the types of used screws.
- (4) Be sure to get yourself grounded because of the static electricity which exerts any serious adverse effect to ICs.
- (5) 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



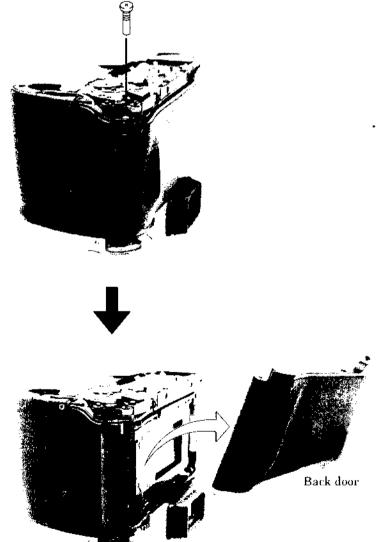


#656

• Remove the gears indicated in Figure on the left.

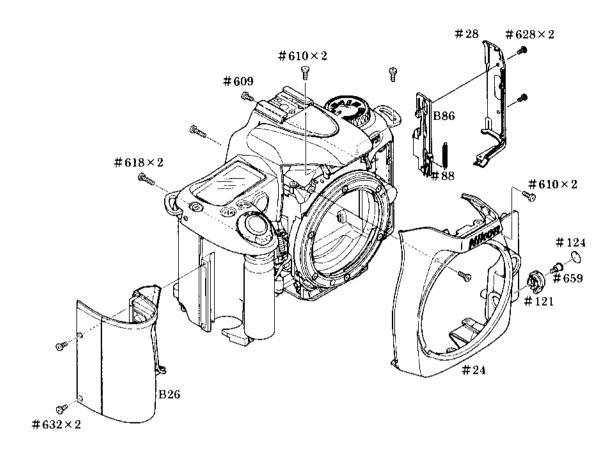
#### BACK DOOR

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.

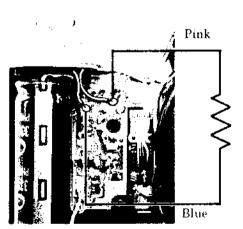


 Remove the screw #656, and then remove the camera back as shown in Picture below.

#### FRONT COVER, GRIP COVER



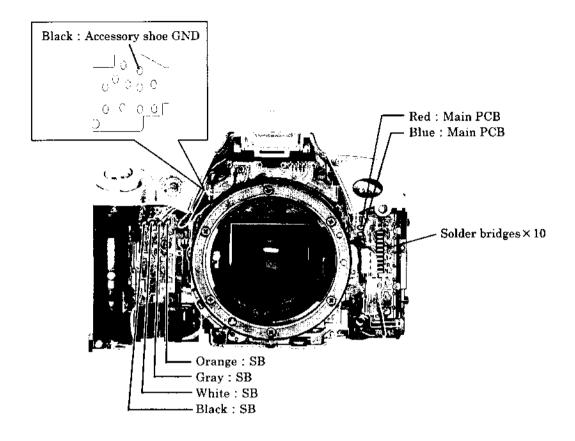
#### Discharging from the main capacitor

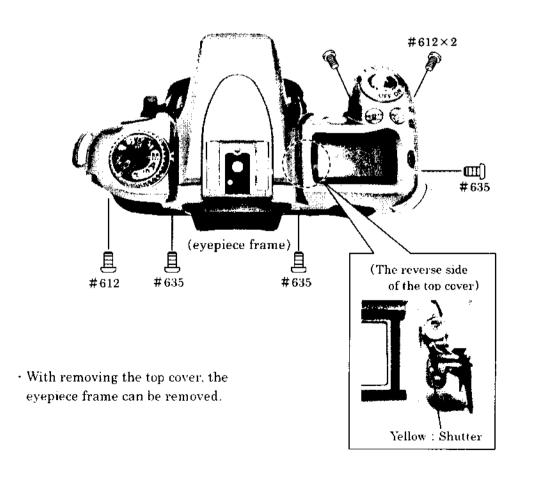


 After discharging electricity, unsolder the pink and blue wires, and then remove the main condenser.

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

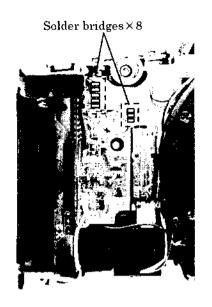
#### TOP COVER

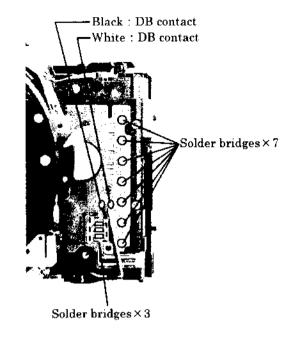


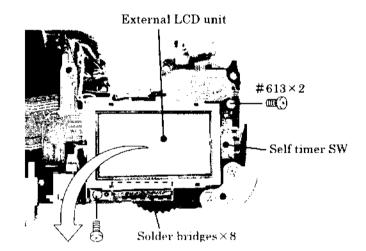


#### SEPARATION OF THE FRONT AND REAR BODY

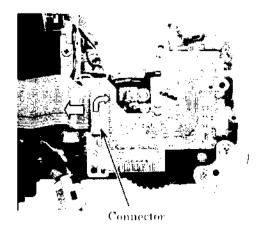
#### Removal each wires and solder bridges



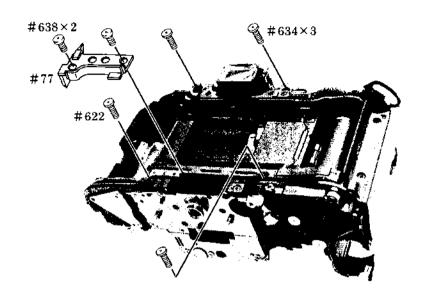


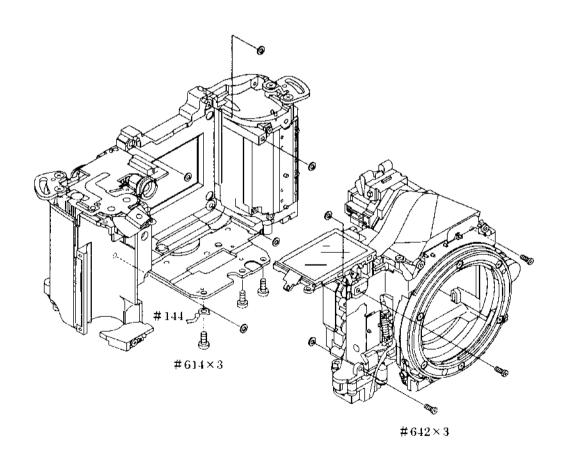


Note: Remove the FPC of the self-timer SW first, and then lift up the external LCD unit in an arrow direction.



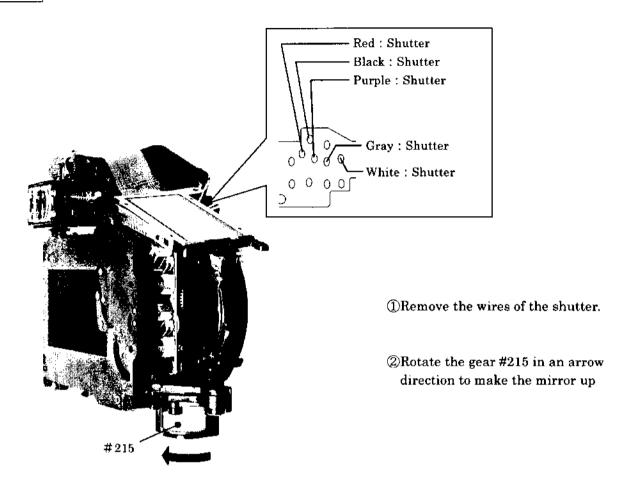
· Remove the FPC of the main PCB from the connector.

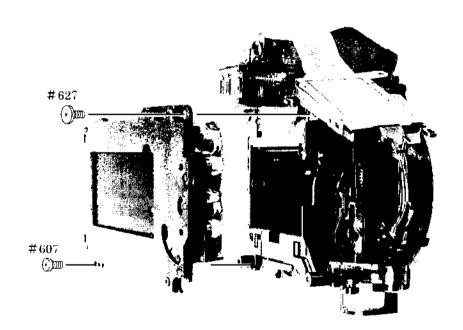




#### 2. FRONT BODY

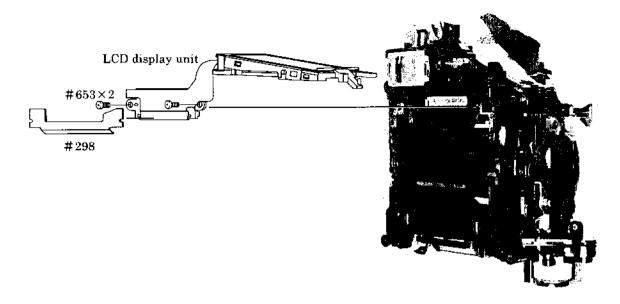
## SHUTTER



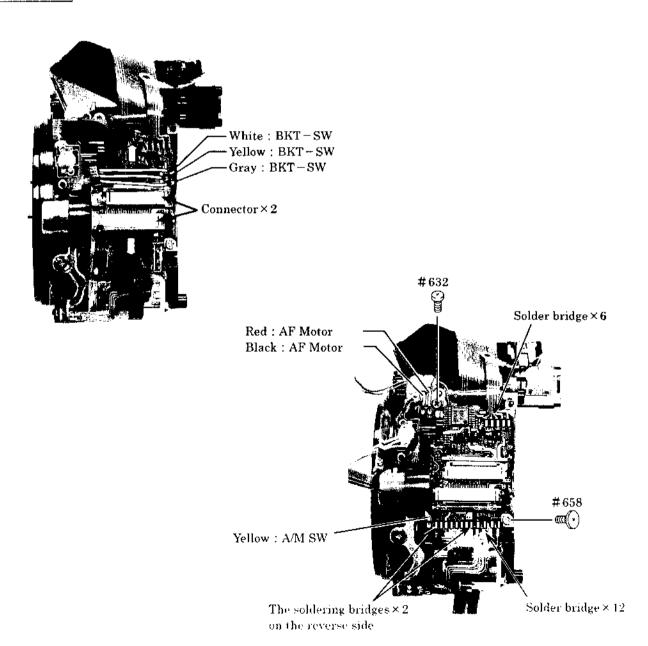


 $\cdot$  After removing the shutter, rotate the gear #215 to make the mirror down.

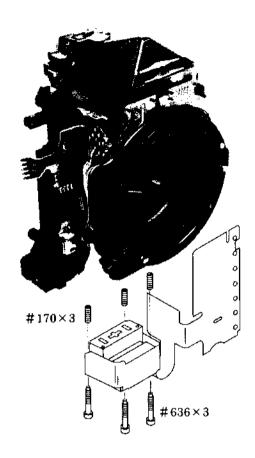
## LCD DISPLAY UNIT



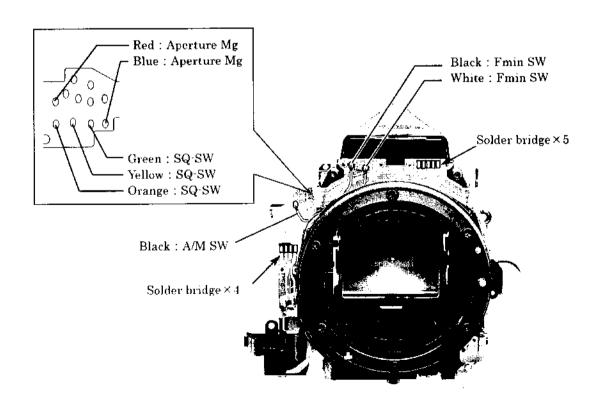
## MAIN PCB



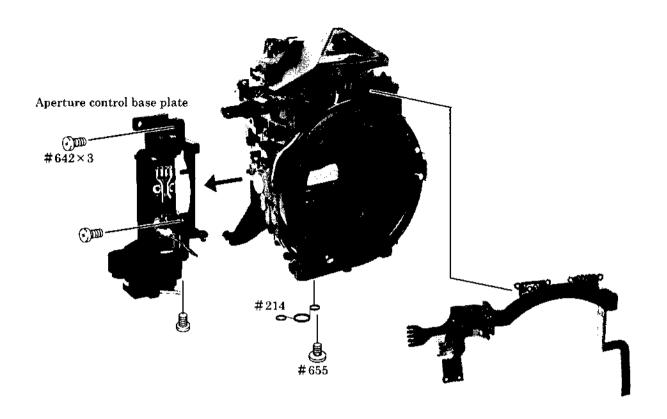
## AF SENSOR UNIT



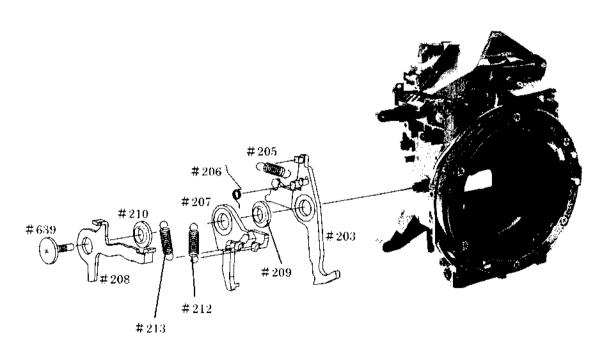
## REMOVE THE WIRES AND SOLDERING BRIDGES



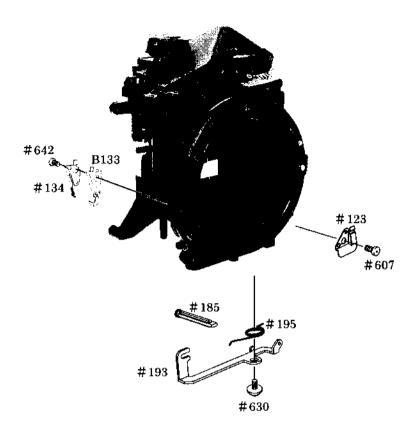
## APERTURE CONTROL BASE PLATE



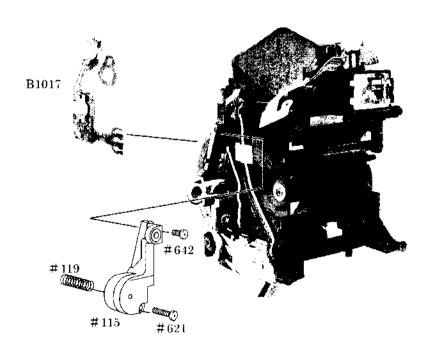
## APERTURE CONTROL LEVER



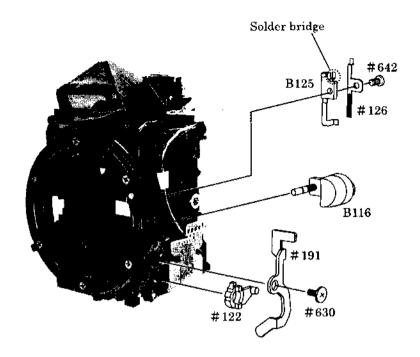
## HORIZONTAL AF LEVER UNIT, F min SW



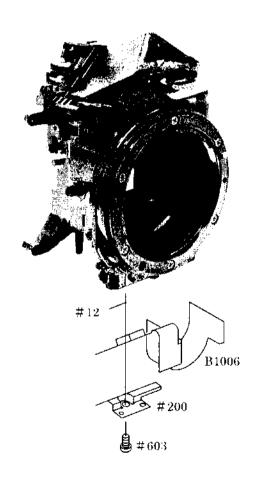
## SB/BKTSWFPC, LENS RELEASE GROUP



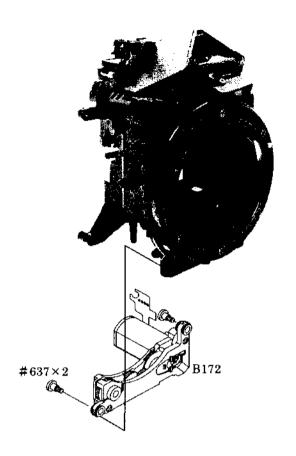
## LEVER#191、A/M SW



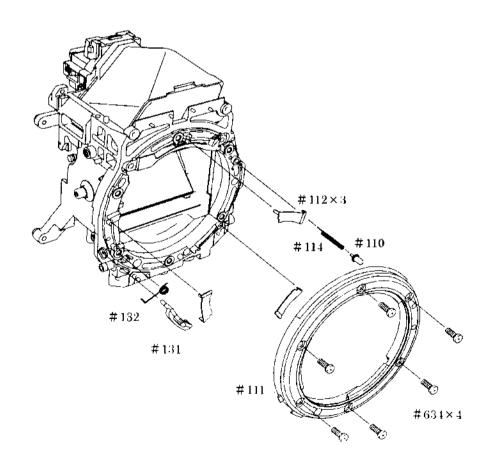
## TTL FPC UNIT



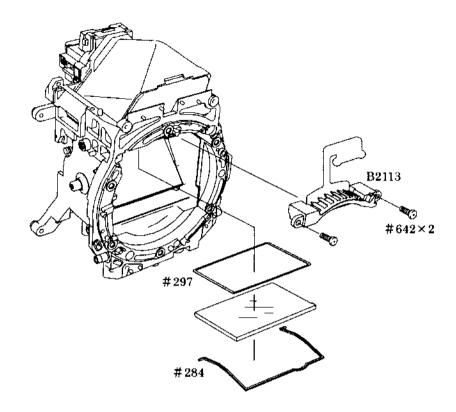
## AF DRIVING UNIT



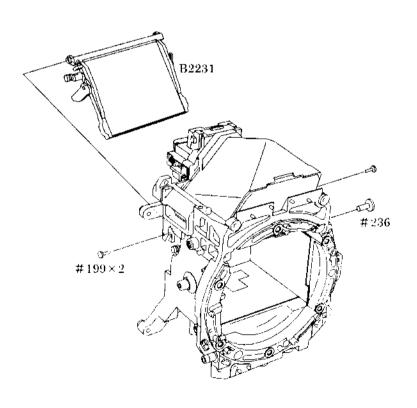
## BAYONET MOUNT



# LENS CONTACT

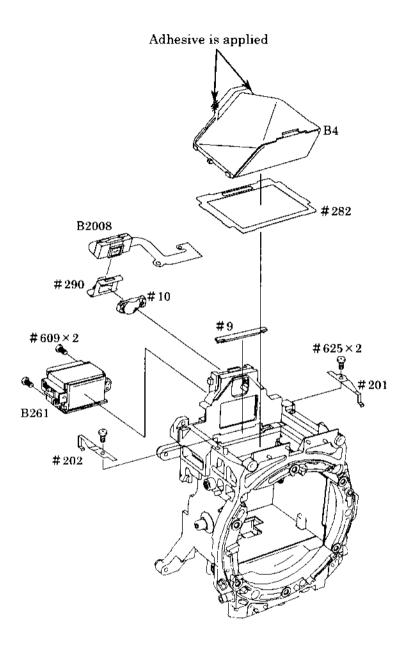


## MIRROR HOLDER



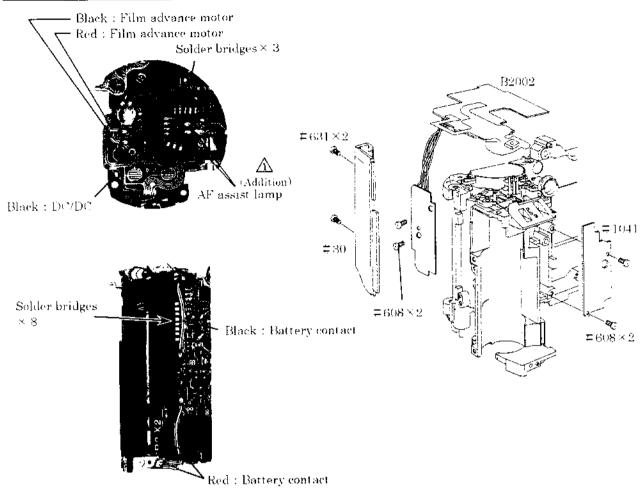
## PENTAPRISM GROUP

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

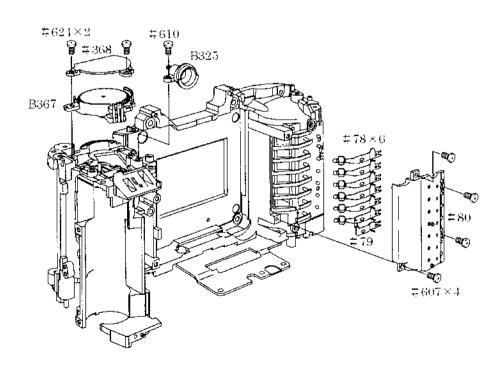


#### 3. REAR BODY

#### SB UNIT. DC/DC UNIT. SUB PCB

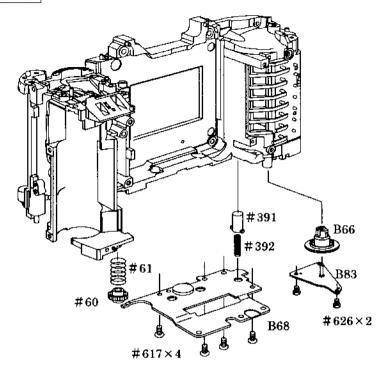


## COMMAND DIAL, DX CONTACT

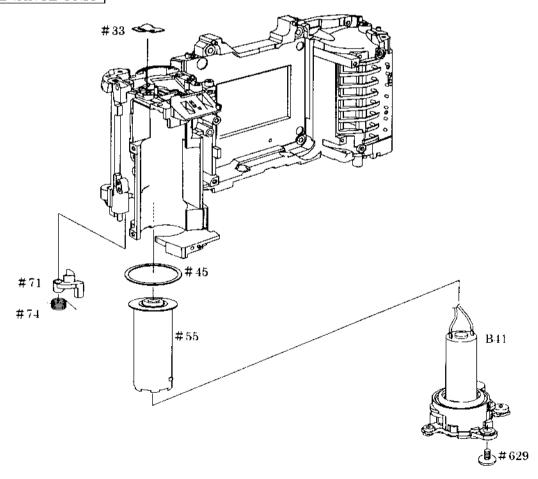




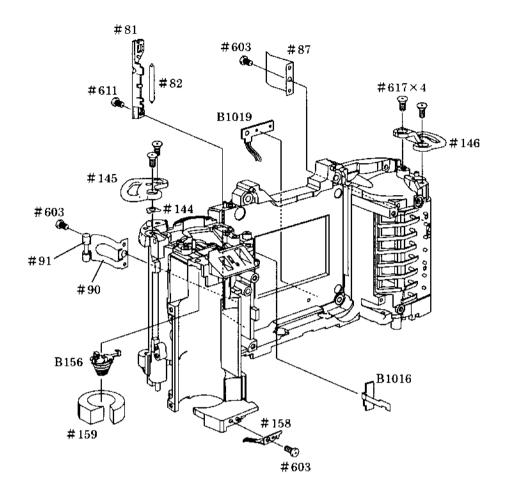
#### BOTTOM BASE PLATE



## FILM ADVANCE UNIT



## SMALL PARTS REAR BODY



# ASSEMBLING/ADJUSTMENT

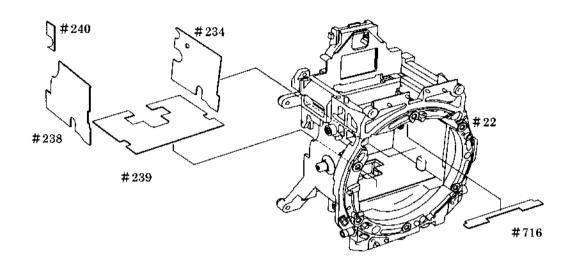
. FRONT BODY	
MIRROR HOLDER	A 1
APERTURE CONTROL LEVER, F min SW	A 2
APERTURE CONTROL BASE PLATE	A 3
AF DRIVING UNIT	A 4
LEVER#191, A/M SW	A 4
HORIZONTAL AF LEVER	A 5
BAYONET MOUNT	A 5
LENS RELEASE BUTTON GROUP	A 6
HIGHT ADJUSTMENT OF AF COUPLING SHAFT	A 6
ADJUSTMENT OF APERTURE LEVER POSITION	A 7
TTL 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	
BACK DOOR OPEN/CLOSE AREA	
TOP COVER	

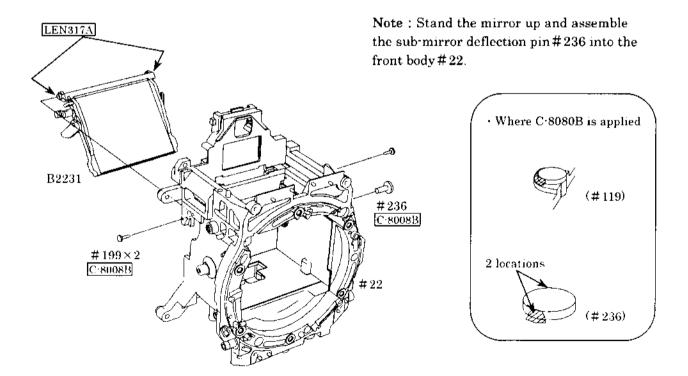
MAIN CONDENSER	A 2 2
FRONT COVER, GRIP COVER	A 2 2
ADJUSTMENT THROUGH PC	A 2 3
AF/AE ADJUSTMENT	A 2 4
BACK DOOR	A 2 5
BOTTOM COVER	A 2 6
AD HISTMENT OF OPENING IN SR PART	A 2 6

## ASSEMBLING/ADJUSTMENT

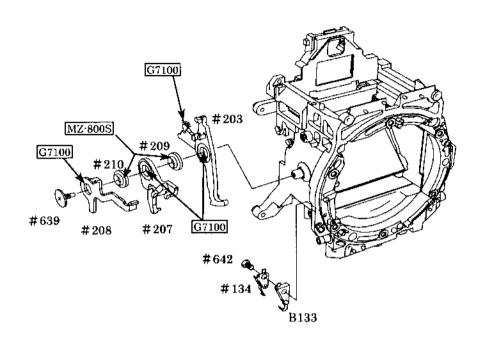
#### 1. FRONT BODY

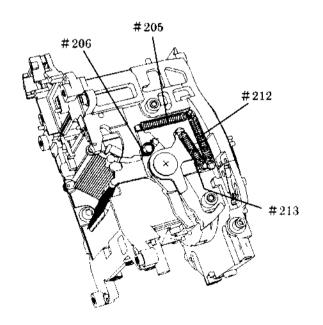
## MIRROR HOLDER





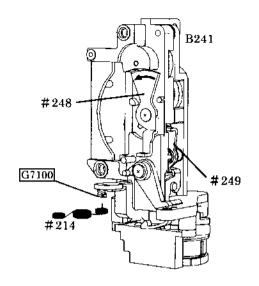
## APERTURE CONTROL LEVER, F min SW



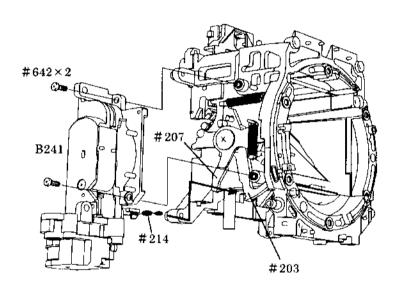


# Order of setting springs Set the springs in order of #260 #205 - #212 - #213.

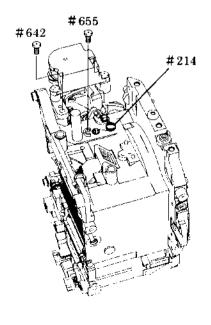
#### APERTURE CONTROL BASE PLATE



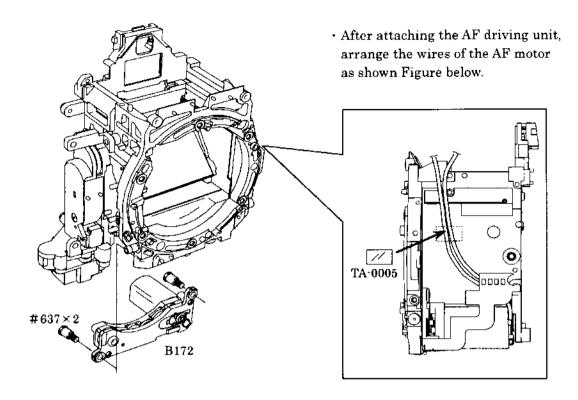
- ①Set the spring #214.
- ②Move the lever #248 in an arrow direction to touch the limit.
- 3 Push the #249 to lock the lever #248.



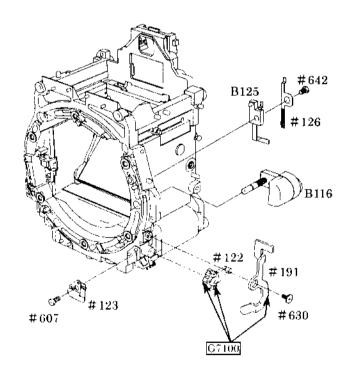
(4) Attach B241 so that the spring #214 comes between the mirror up laver #203 and #207.



## AF DRIVING UNIT

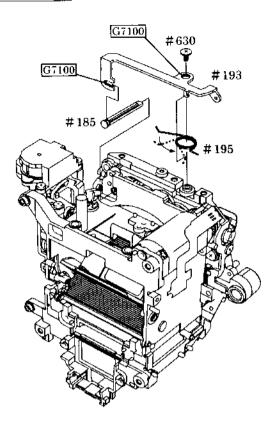


## LEVER #191, A/M SW

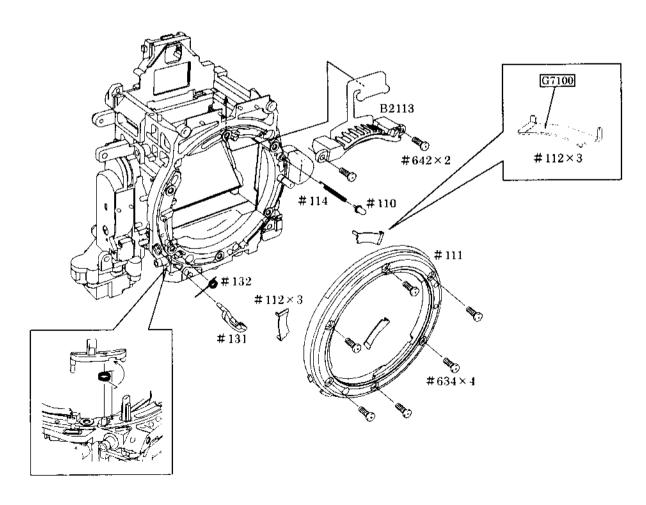


· Order of attaching B116-#122-#191-#630 B125-#126-#642-#123 -#607

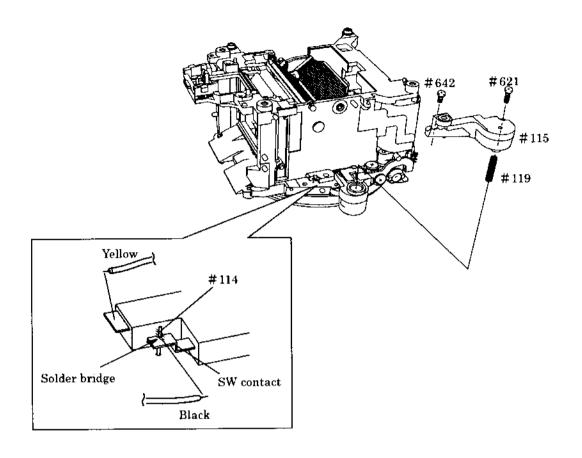
## HORIZONTAL AF LEVER UNIT



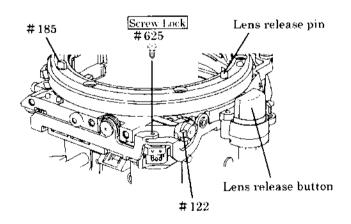
## BAYONET MOUNT

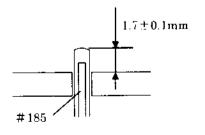


#### LENS RELEASE BUTTON GROUP



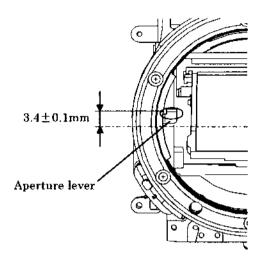
#### HIGHT ADJUSTMENT OF AF COUPLING SHAFT





- ①Set 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.
- ②Adjust the height of the AF coupling shaft using screw #625.
- 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

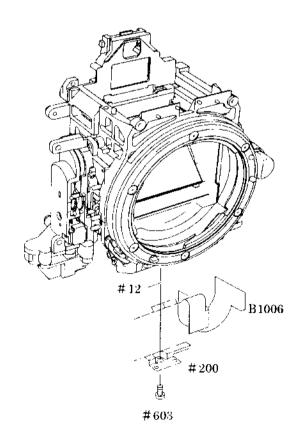


■Measure the height of the aperture lever using tool J18004.

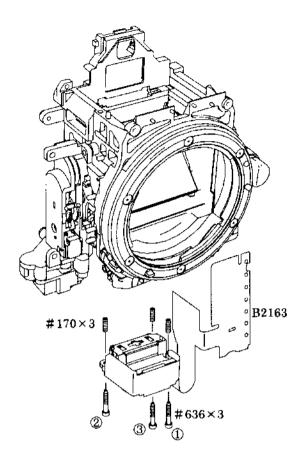
#### Standard value: 3.4±0.1mm

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

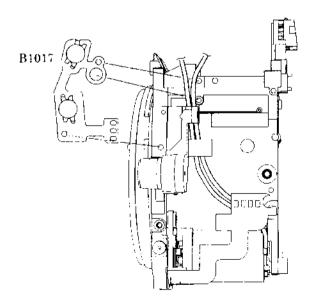


## AF SENSOR UNIT

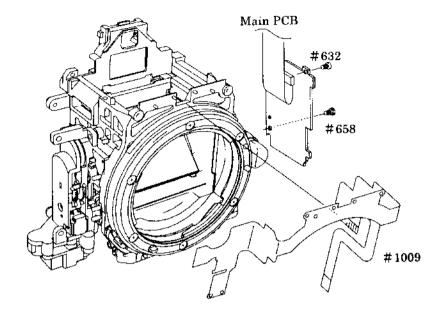


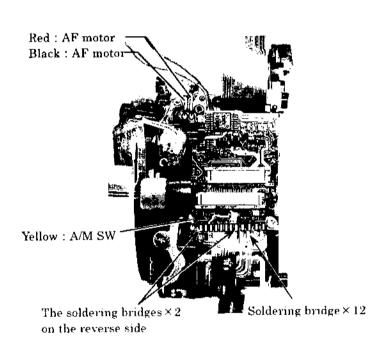
Tighten the screw#636×3 in order of
 1 to 3 by the hex key to the end, and then rotate them about 2 revolutions back.

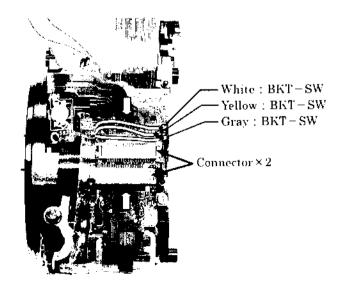
## SB/BKTSWFPC

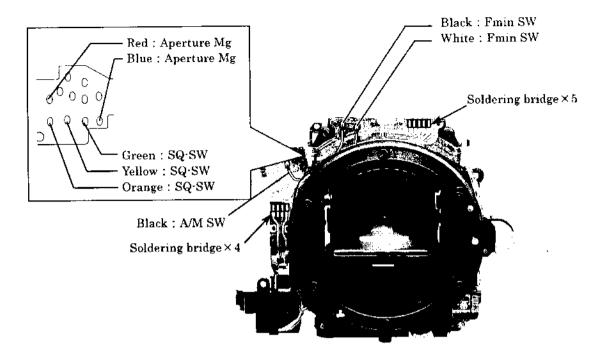


## MAIN PCB

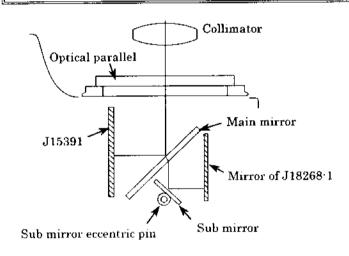








#### ANGLE ADJUSTMENT OF MAIN MIRROR AND SUB MIRROR TO 45°



#### \*Use tools

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

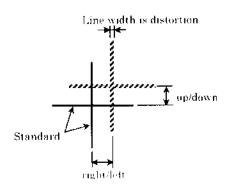
●Angle inspection of the main mirror to 45°

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.

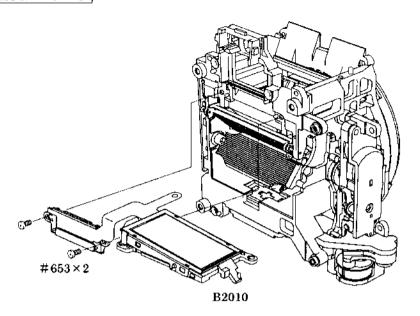
· Check the difference on the top and bottom. If it is out of standard, adjust the angle by rotating the eccentric pin for sub murror.



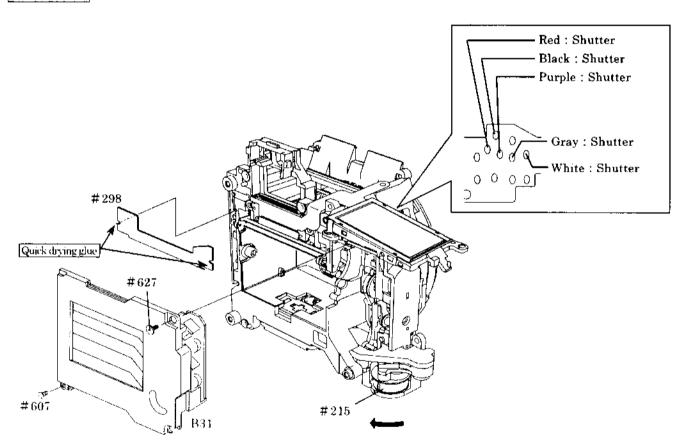
#### Standard:

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

#### LCD DISPLAY UNIT



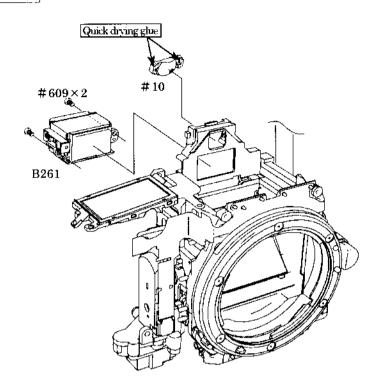
#### SHUTTER



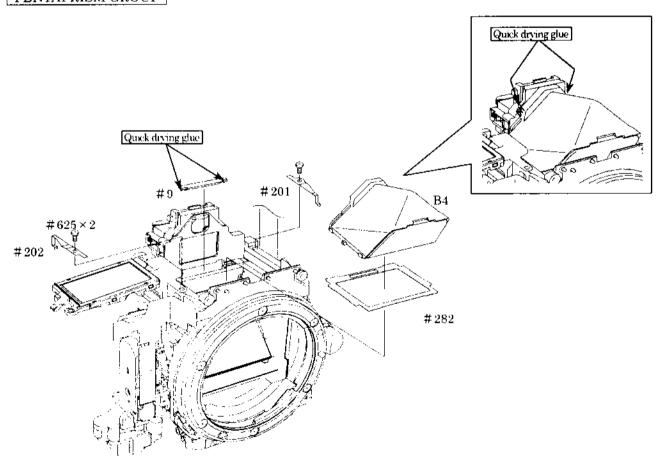
- ①Attach the light baffle plate #298.
- ②Rotate the gear #215 in an arrow direction to make the mirror up.
- 3Attach the shutter.
- **⚠**Rotate the gear #215 to make the mirror down.

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

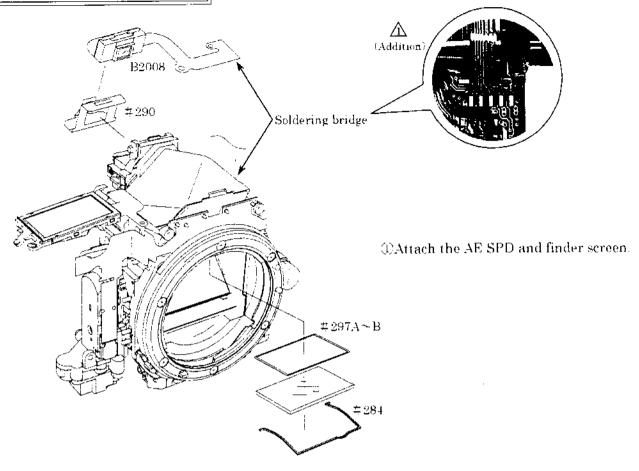
## EYEPIECE LENS UNIT

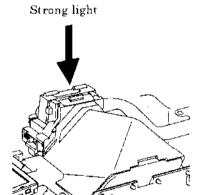


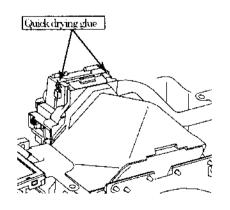
## PENTAPRISM GROUP



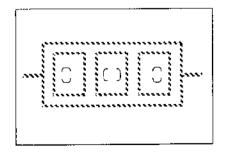
### AE SPD POSITION ADJUSTMENT







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

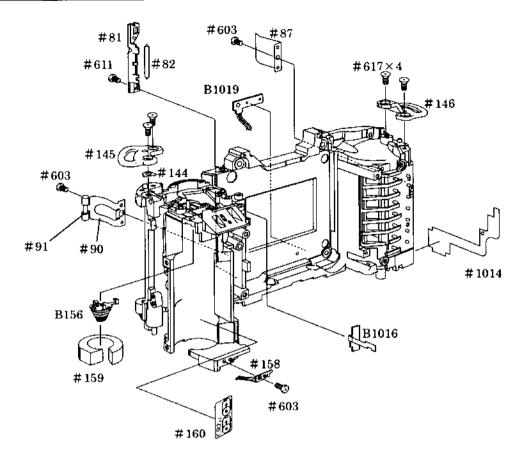


Fix the AE SPD holder to the mirror box with quick dry glue.

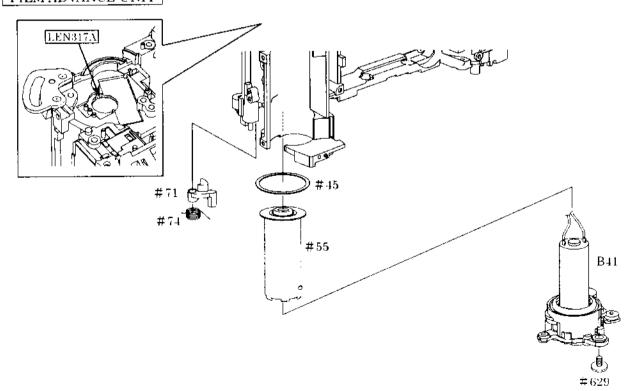


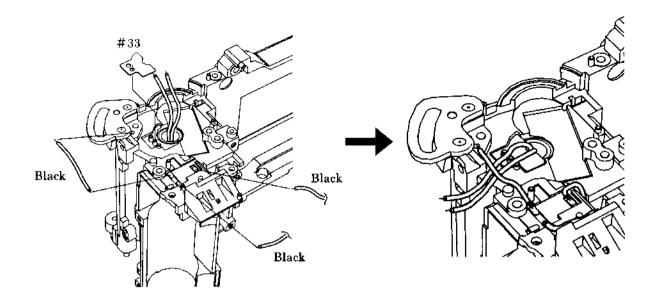
#### 2. REAR BODY

## SMALL PARTS REAR BODY

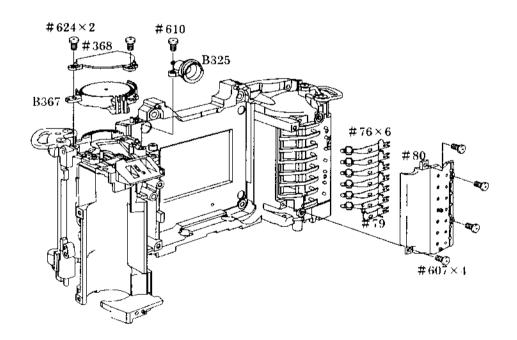


## FILM ADVANCE UNIT

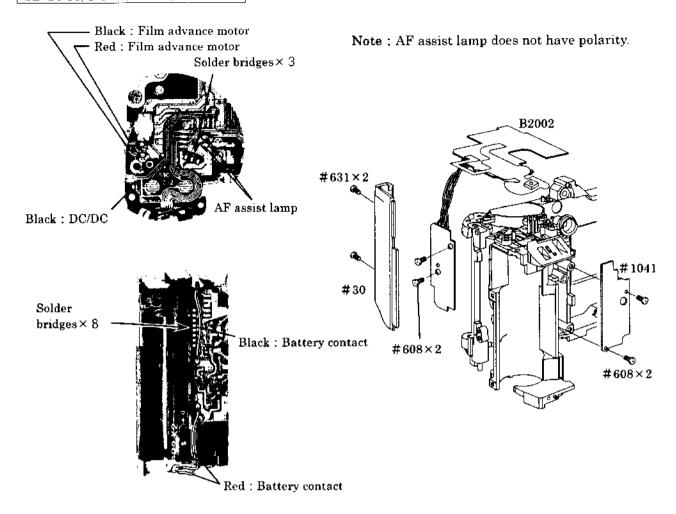




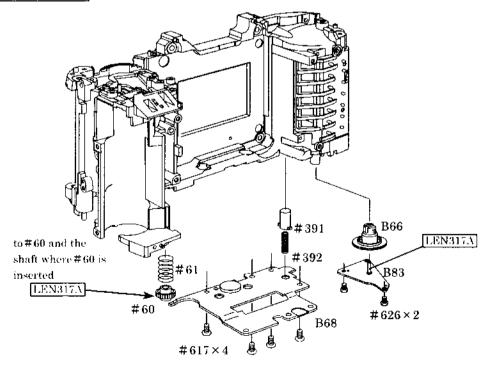
## COMMAND DIAL, DX CONTACT



## SB UNIT, DC/DC UNIT, SUB PCB



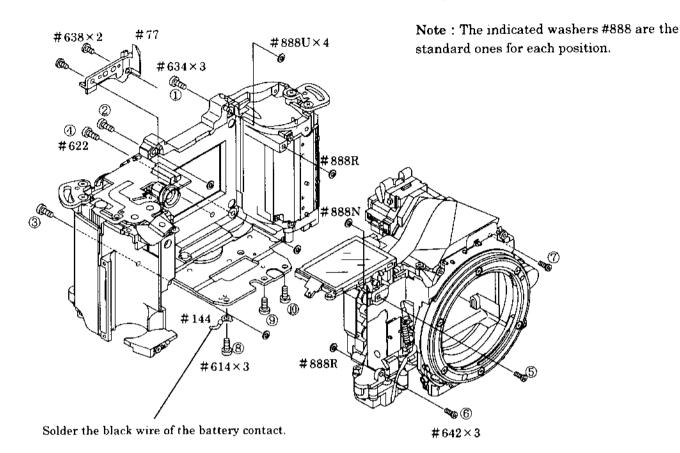
## BOTTOM BASE PLATE



#### 3. MOUNTING BOTH THE FRONT AND THE REAR BODY

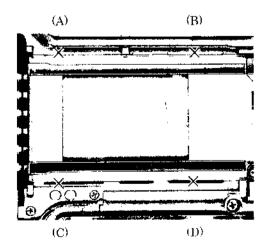
### MOUNT THE FRONT BODY TO THE REAR BODY

· Tighten the screws in order of ① · ⑩.



### INSPECTION & ADJUSTMENT OF BODY BACK

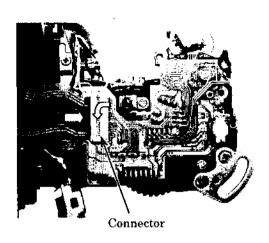
Note: Take note (A) to (D) in order to the difference from the standard 46.67mm at AF adjustment after inspection and adjustment.

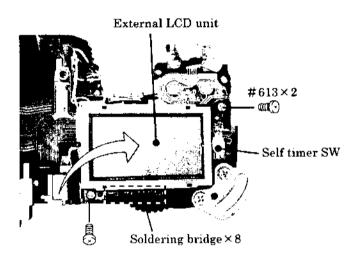


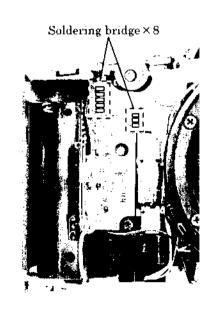
- Measure between the bayonet surface and the outer rail.
- × marking: Where to be measured

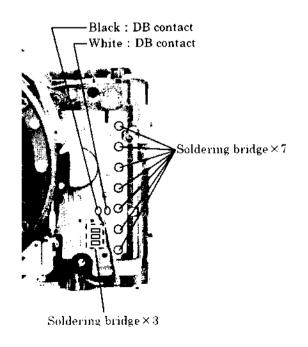
  Standard: 46.64±0.06mm/lblerance for flatness: within 0.06mm
- If the measured value is out of standard, perform the adjustment by moving the front body and rear body by unfastening the screws on them.
  Or adjust it by the washers between the front body and rear body.

#### Connector, Soldering bridges

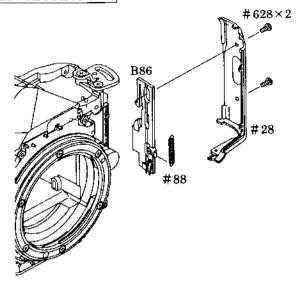




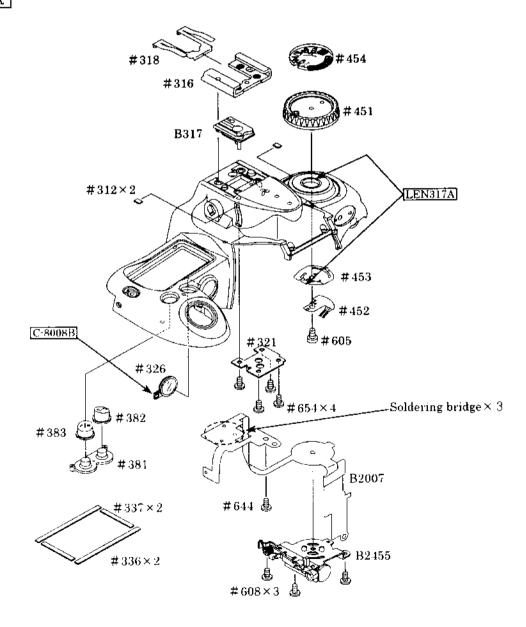


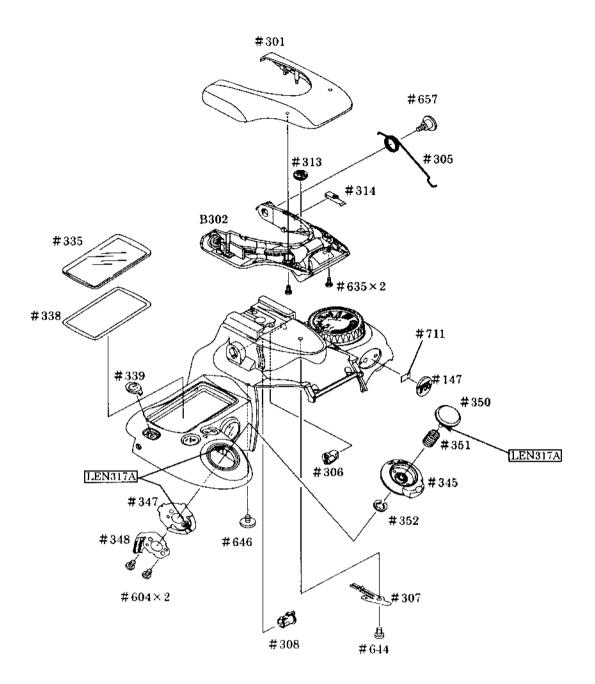


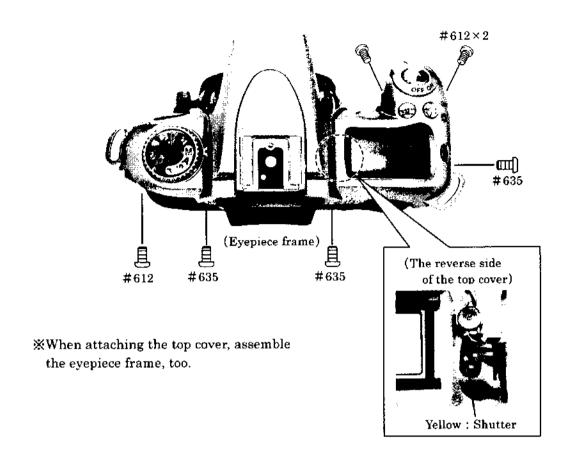
### BACK DOOR OPEN/CLOSE AREA

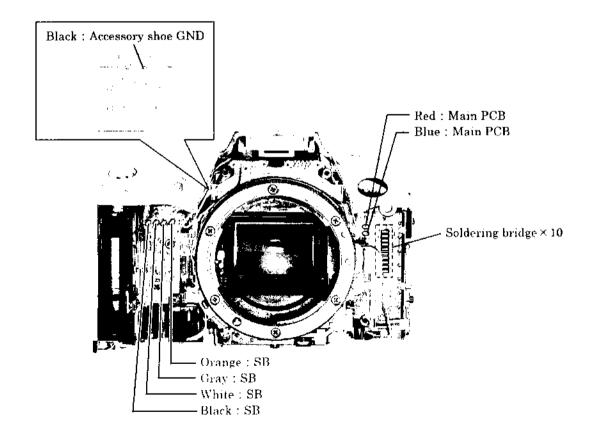


## TOP COVER

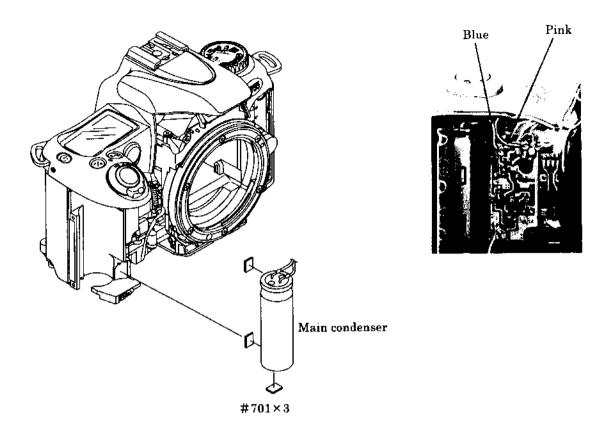




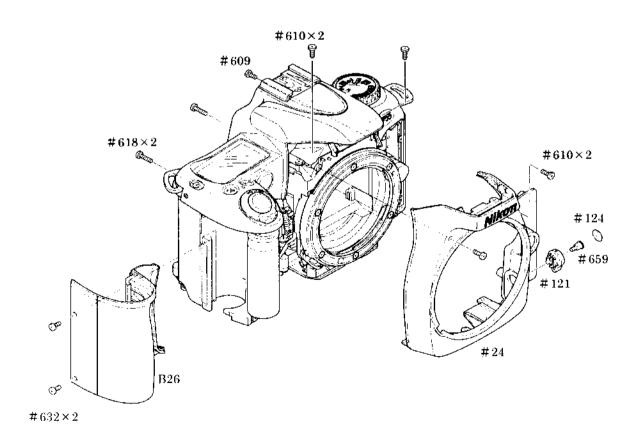




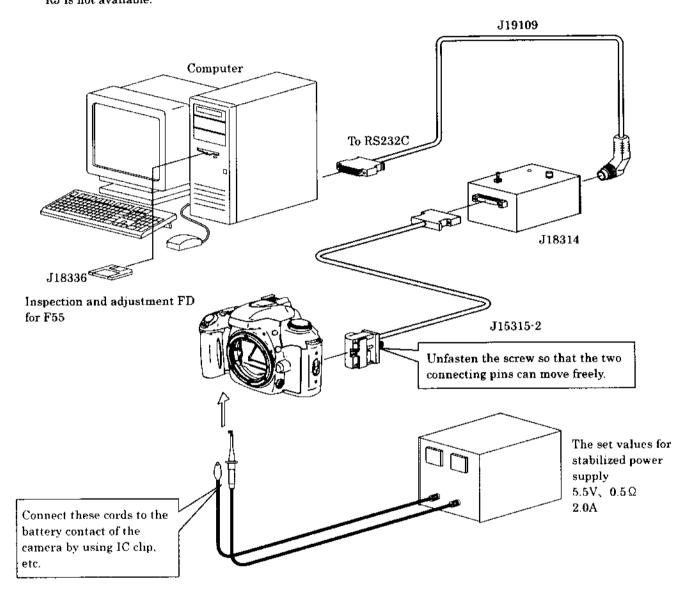
#### MAIN CONDENSER



## FRONT COVER, GRIP COVER



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.

- 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)
- ②YAW, PITCH
- (3) LARK adjustment (include CCD output)
- 4MBF 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)
  - 3Z 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
  - ②Adjustment 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
  - ②AF 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

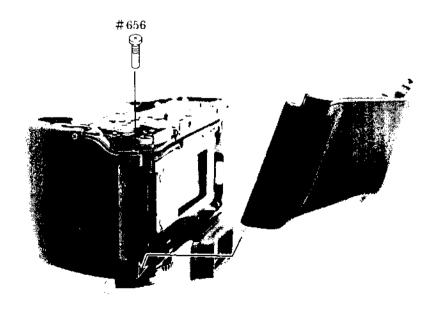
After adjusting the battery check, input below-mentioned each voltage data to the camera and then check the external LCD mode.

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

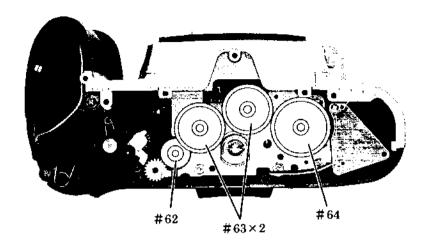
External LCD mode	Set up voltage from the stabilized power supply	
	① 5.00V	⑤ 5.30V±0.2V
	② 4.80V±0.2V	④ 5.00V±0.2V
blinks	③ 4.50V±0.2V	

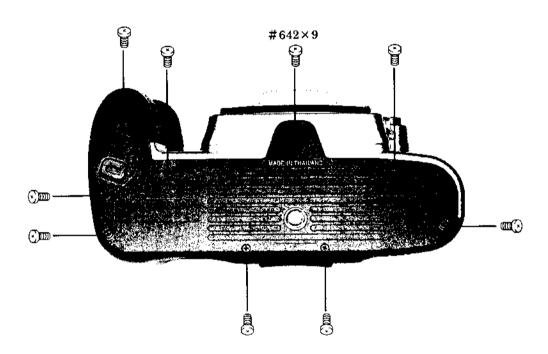
## BACK DOOR

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.

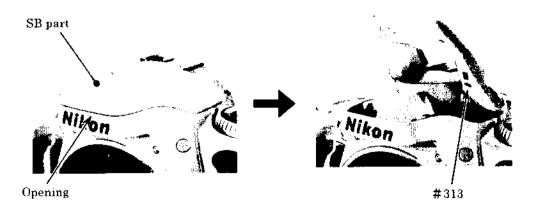


## BOTTOM COVER





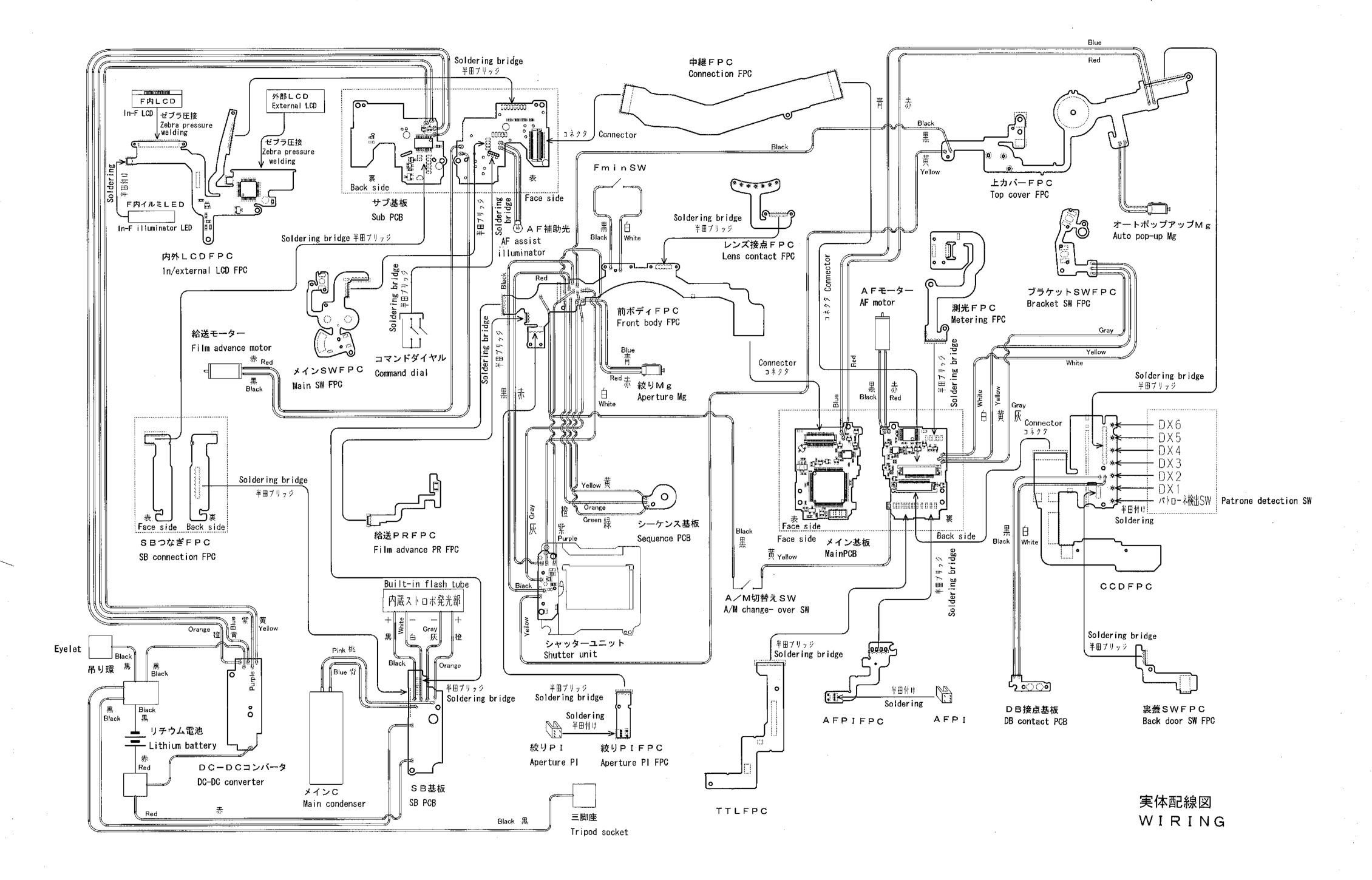
## ADJUSTMENT OF OPENING IN SB PART

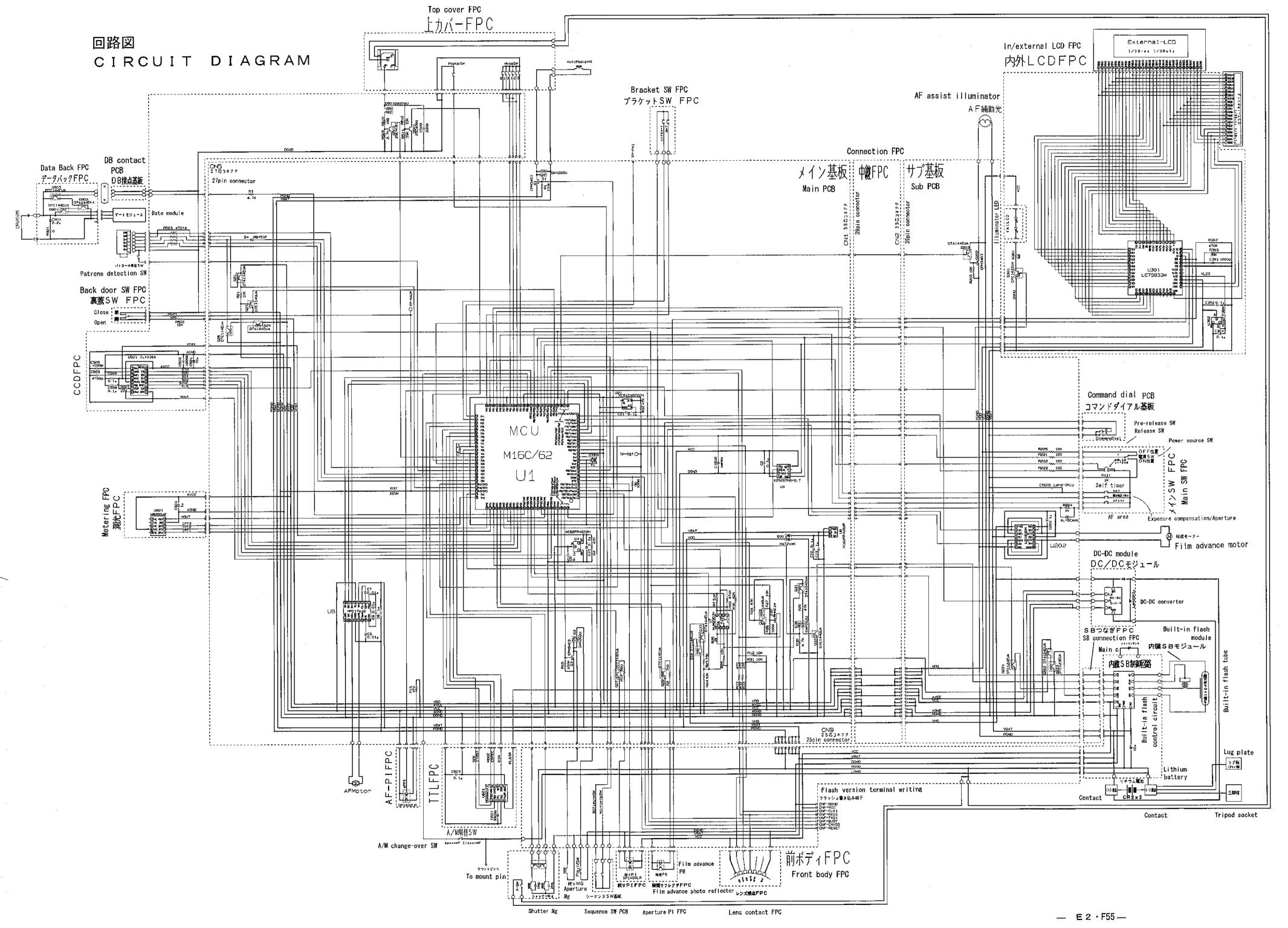


 $\cdot$  When pressing the SB part from the top, if play or opening is big, adjust the opening by making the SB part pop up and rotate the #313 by the hex key.

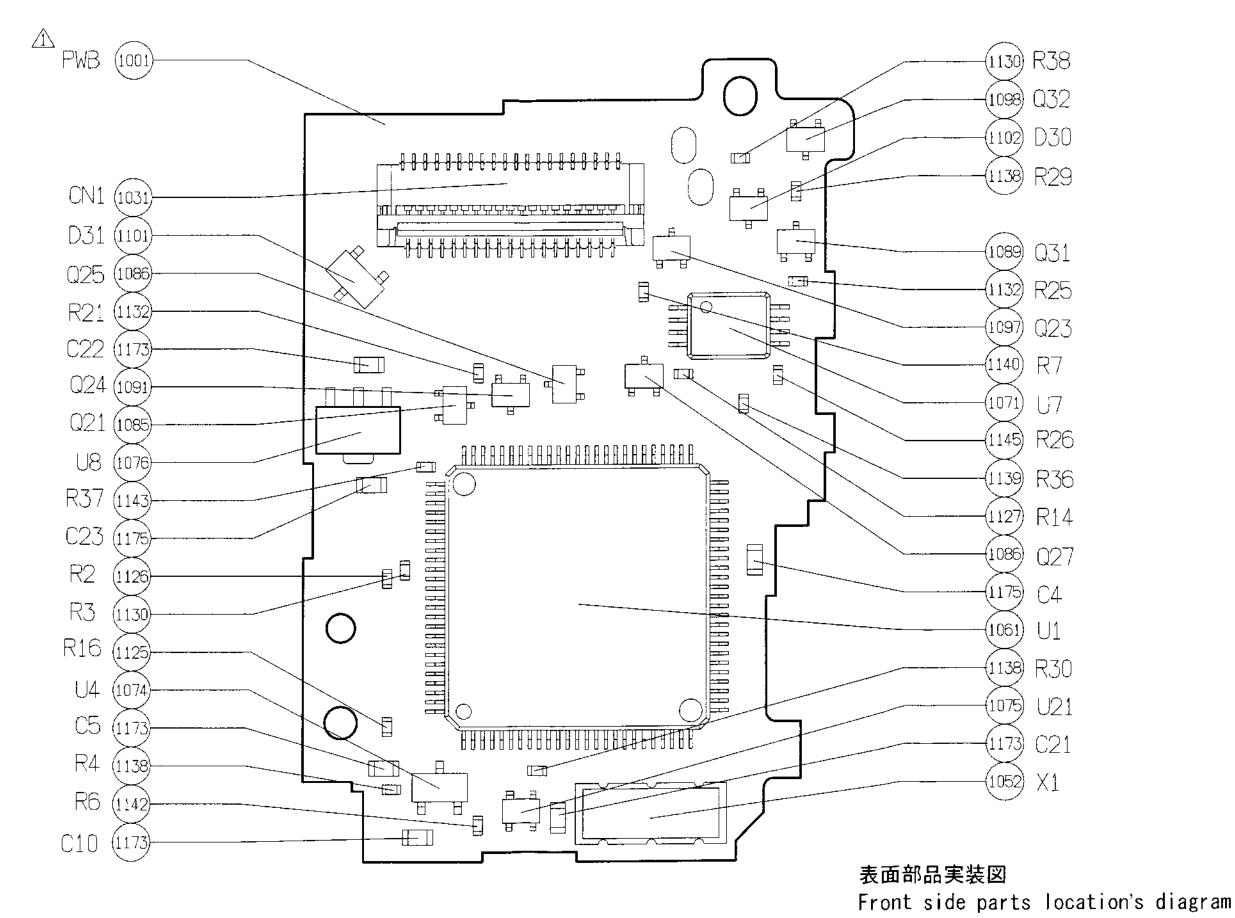
## **ELECTRIC CIRCUIT**

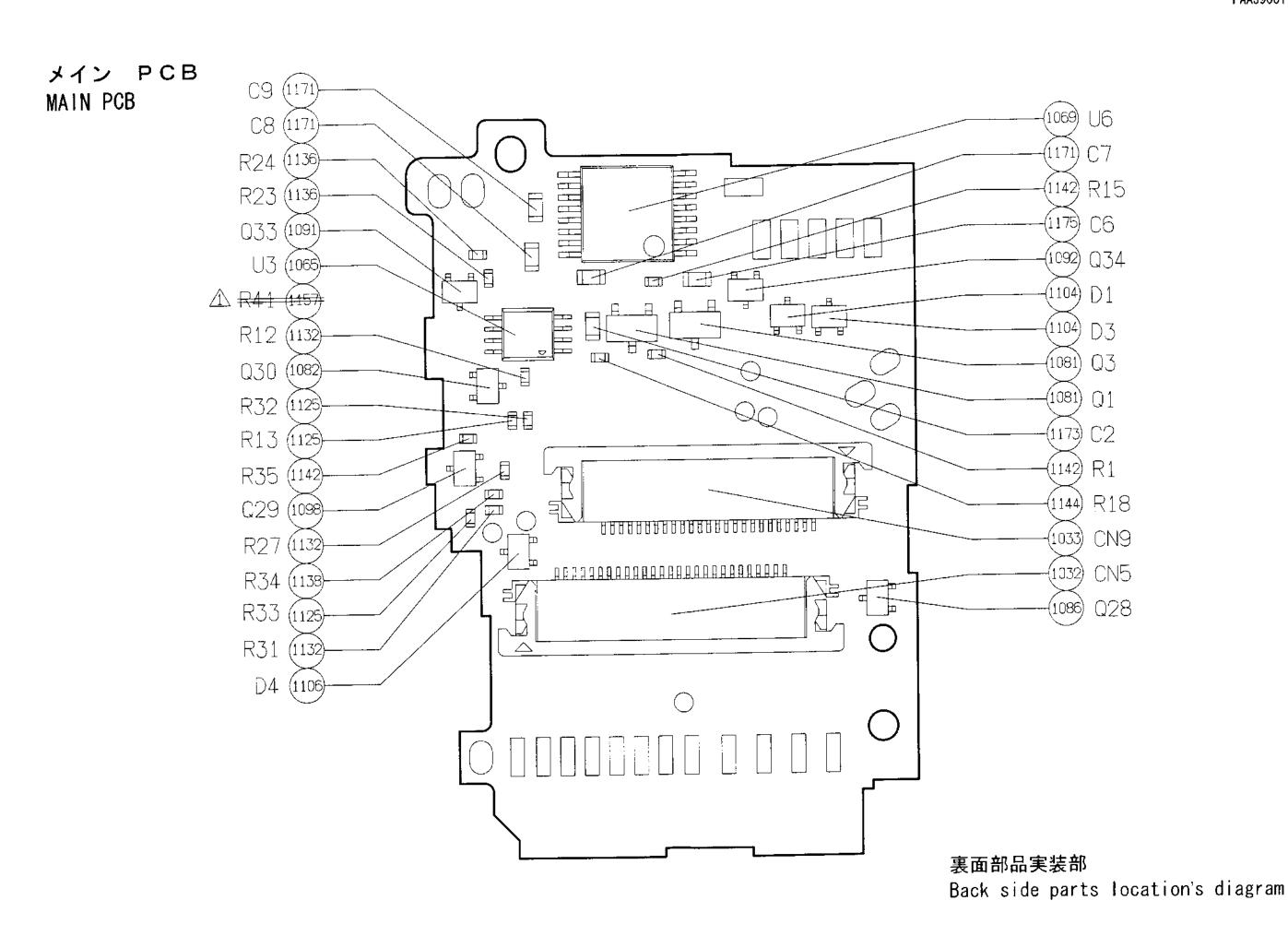
WIRING	E 1
CIRCUIT DIAGRAM	E 2
MAIN PCB	E 3
SUB PCB	E 7
CCD FPC	E 1 1
TTL FPC	E 1 2
TOP COVER FPC	E 1 3
METERING FPC	E 1 4
FRONT BODY FPC	E 1 5
IN/EXTERNAL LCD FPC	E 1 6
MAIN SW FPC	E 1 8
AFPI FPC	E 2 0
LENS CONTACT FPC	E 2 1
BACK DOOR SW FPC	E 2 2
SB CONNECTION FPC	E 2 3
FILM ADVANCE FPC	E 2 4
APERTURE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



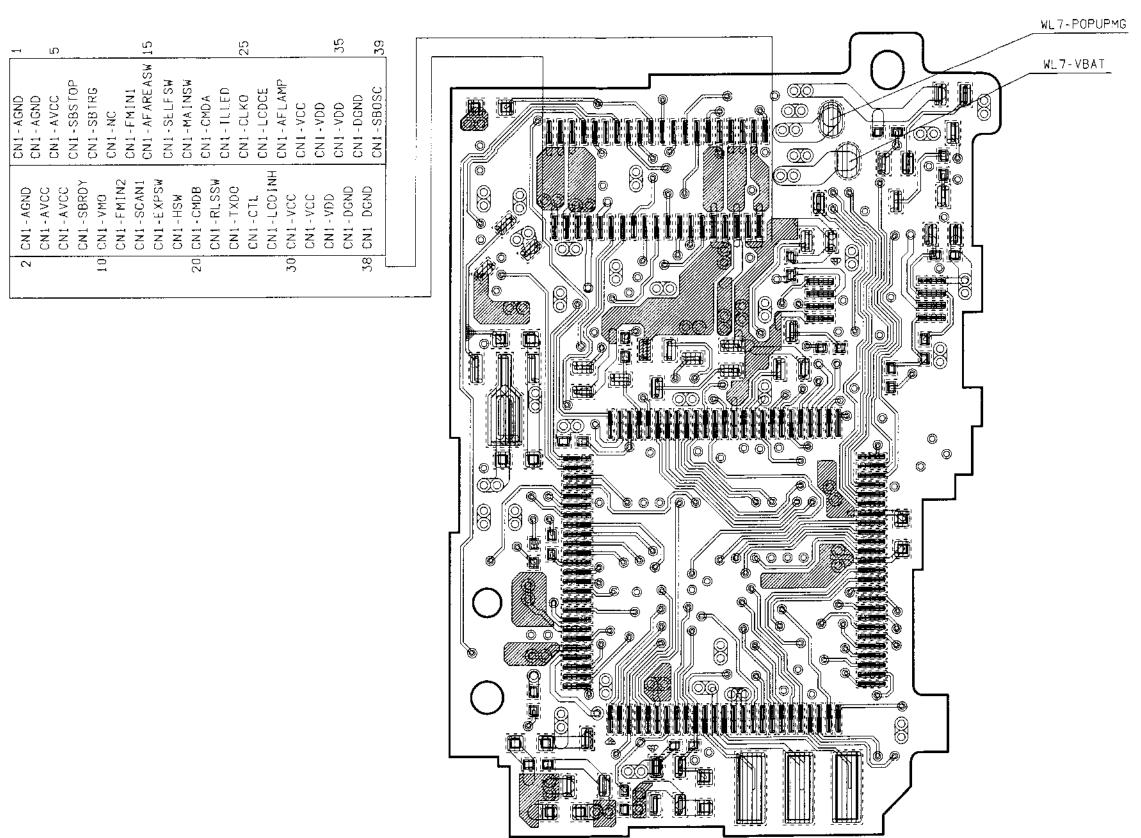


# メイン PCB MAIN PCB



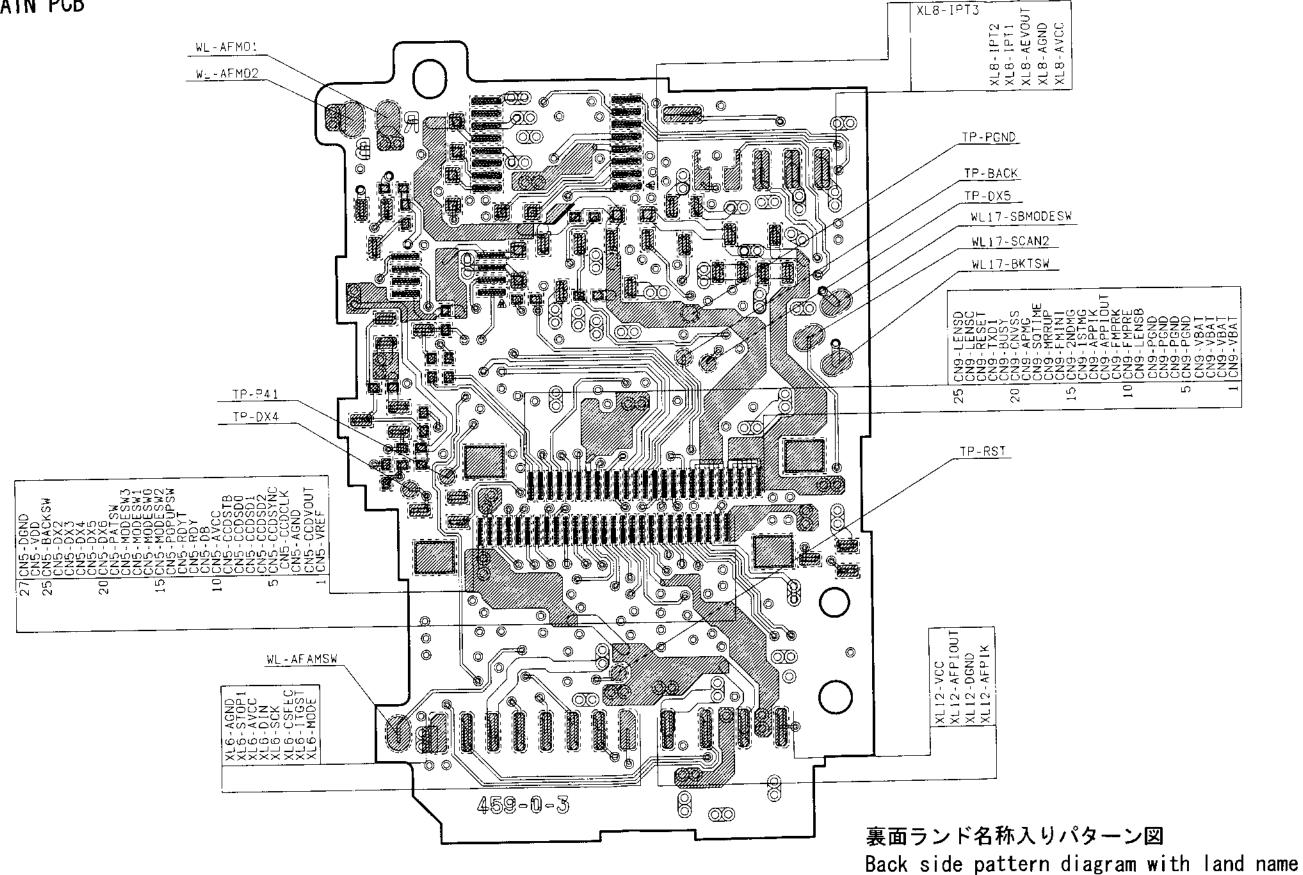


# メイン PCB MAIN PCB

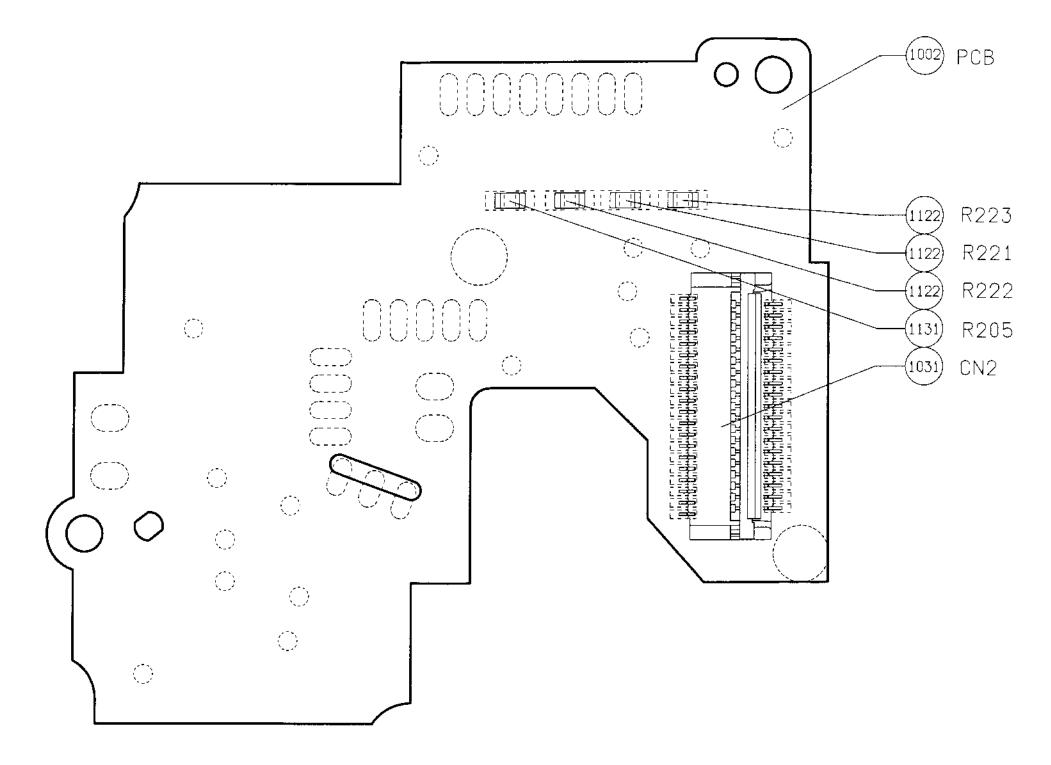


表面ランド名称入りパターン図 Front side pattern diagram with land name

# メイン PCB MAIN PCB



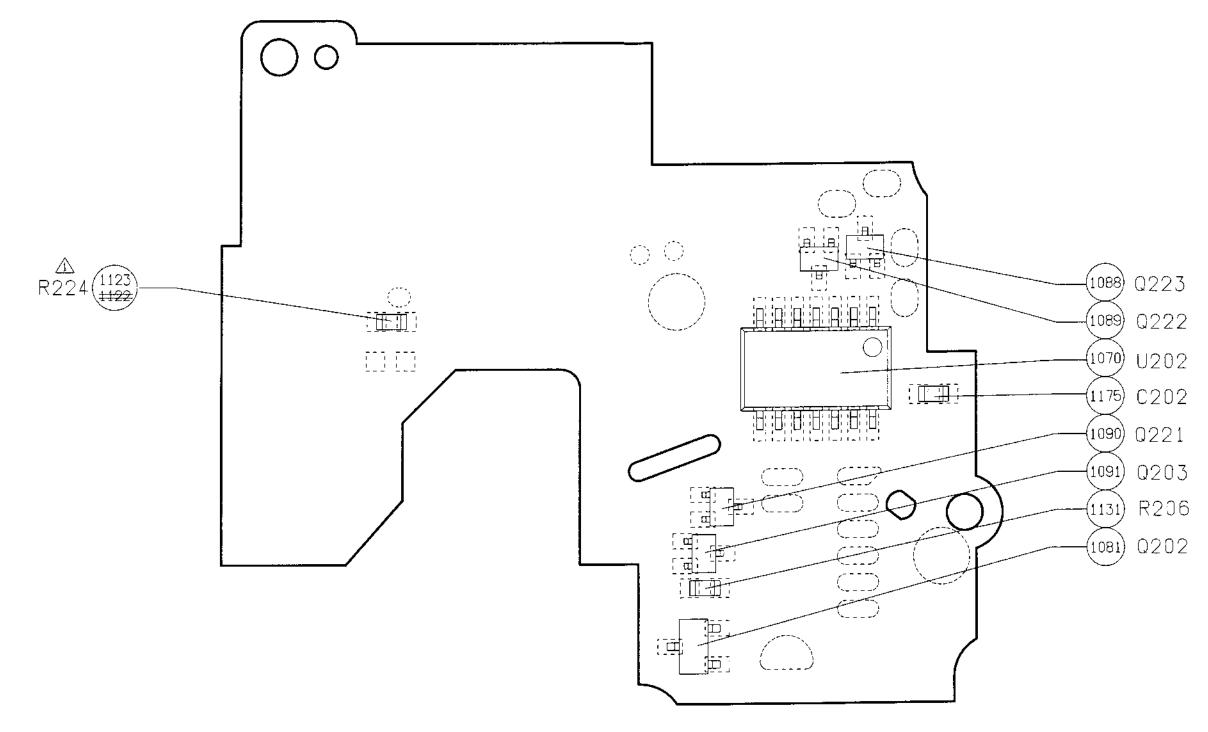
サブ PCB SUB PCB



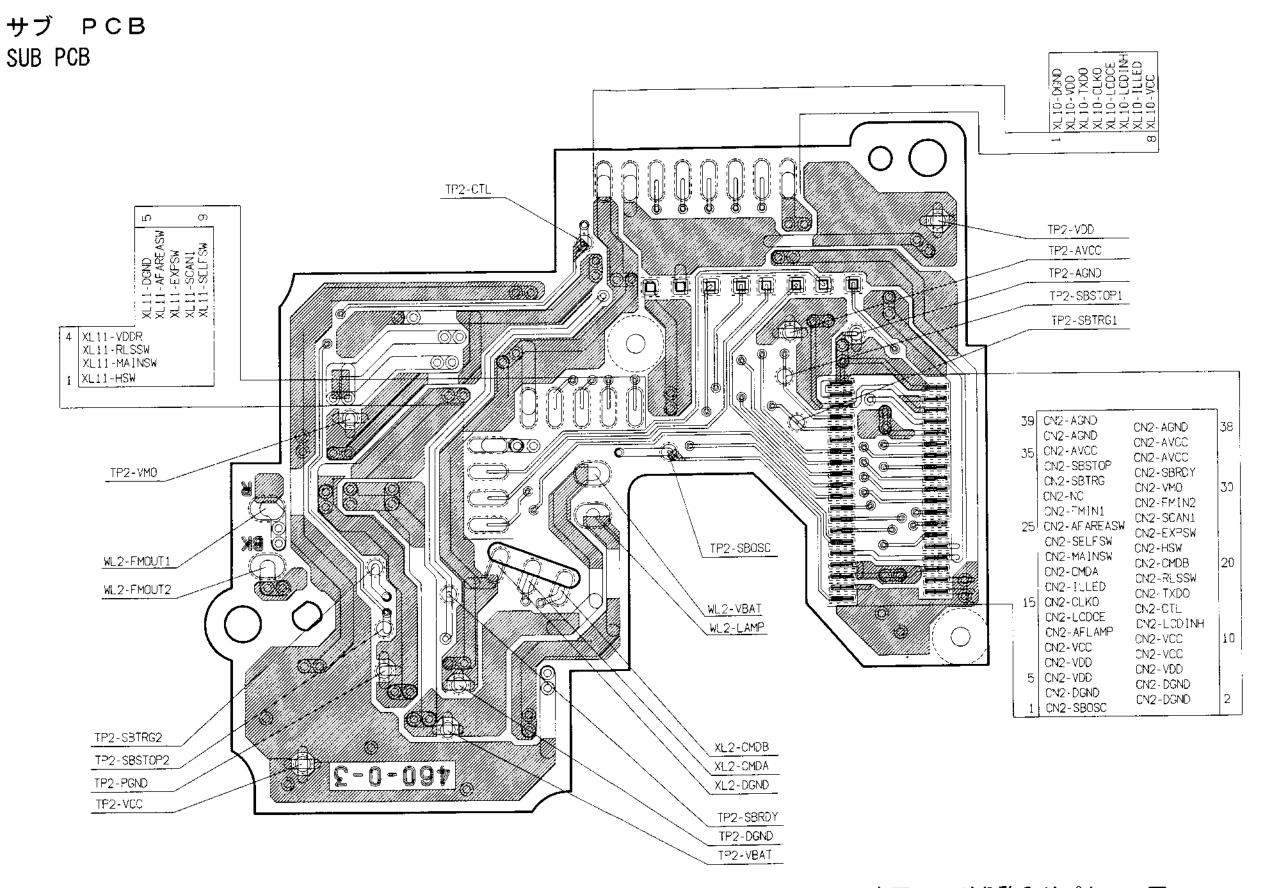
表面部品実装図

Front side parts location's diagram

サブ PCB SUB PCB

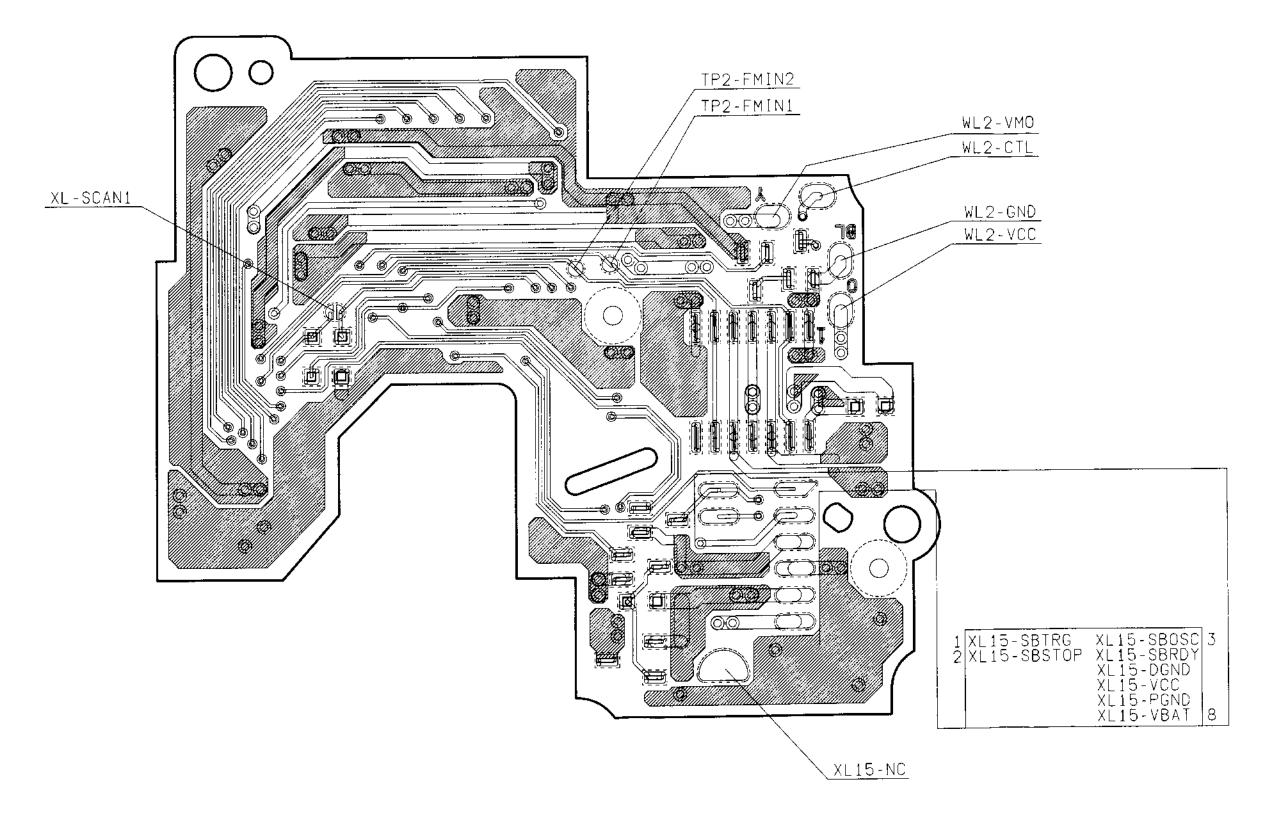


裏面部品実装部 Back side parts location's diagram



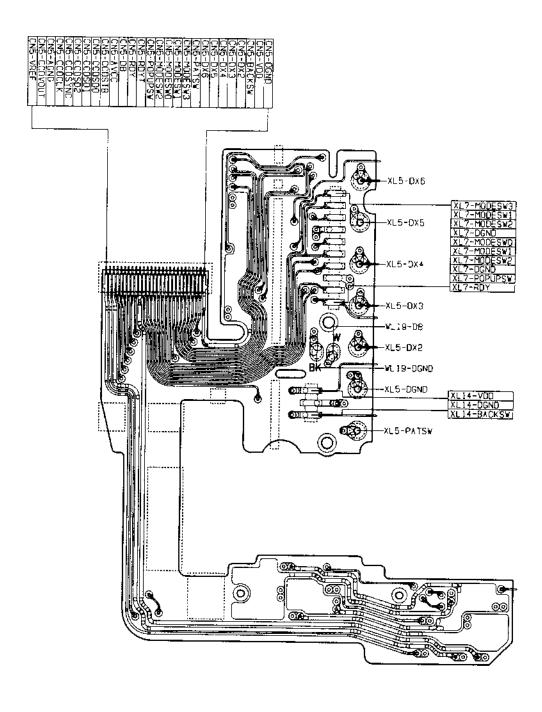
表面ランド名称入りパターン図 Front side pattern diagram with land name

サブ PCB SUB PCB

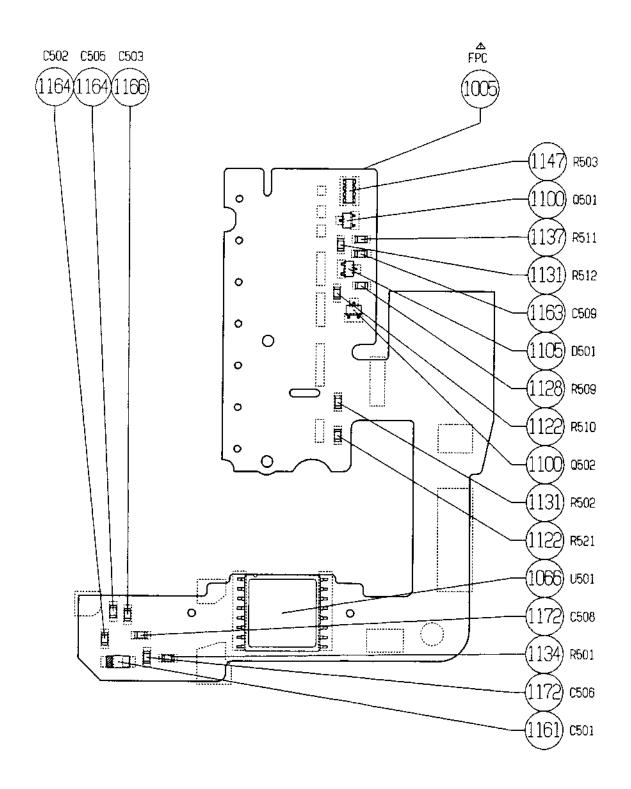


裏面ランド名称入りパターン図 Back side pattern diagram with land name

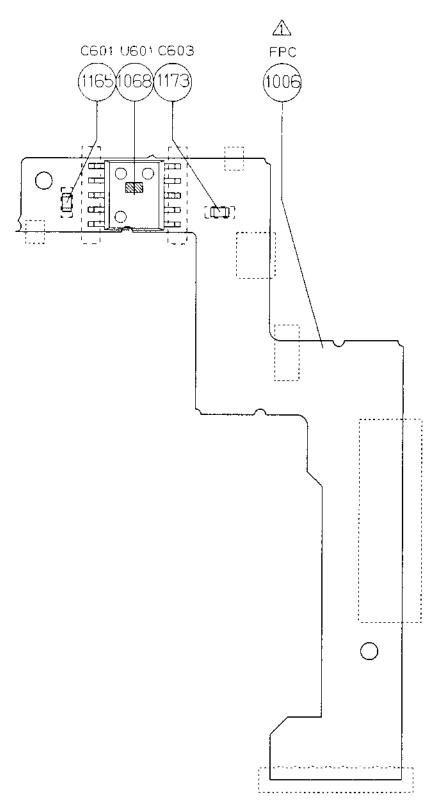
# CCD FPC



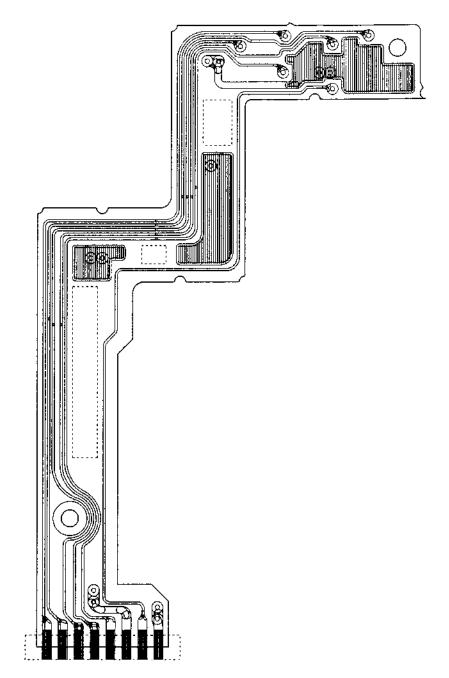
表面ランド名称図 Front side land name



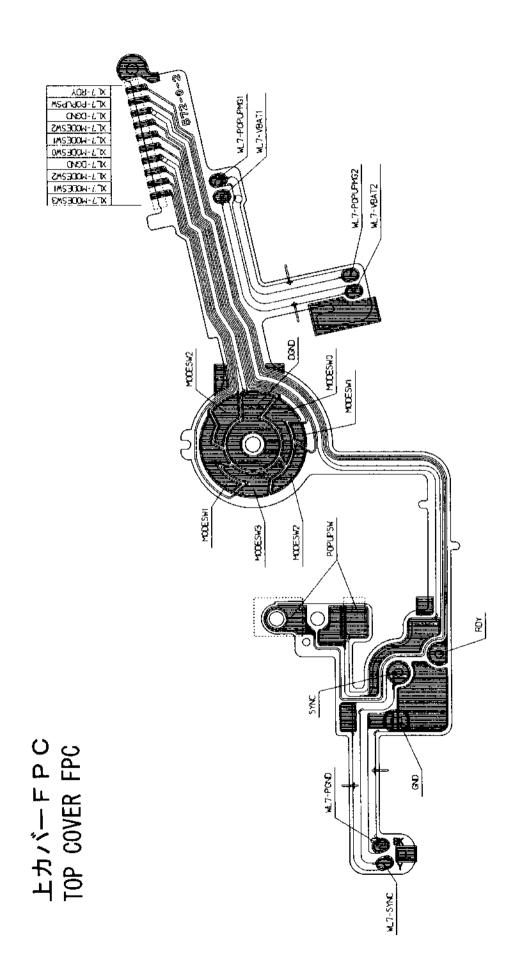
表面部品実装図 Front side parts location's diagram



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

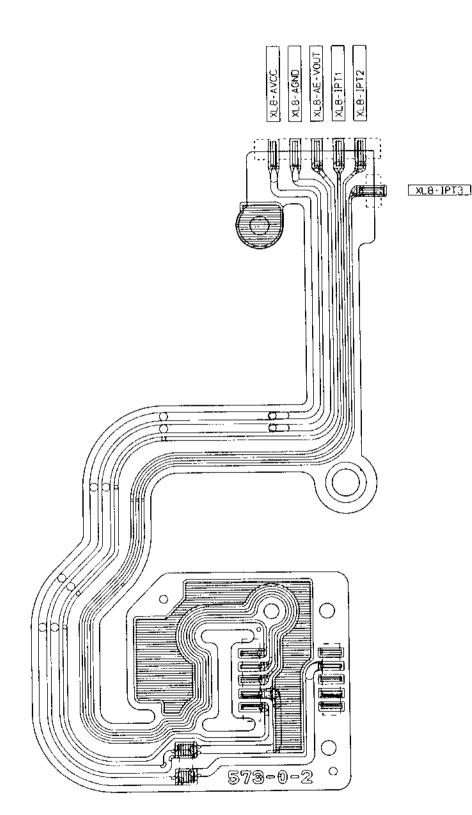


裏面ランド名称入りパターン図 Back side pattern diagram with land name

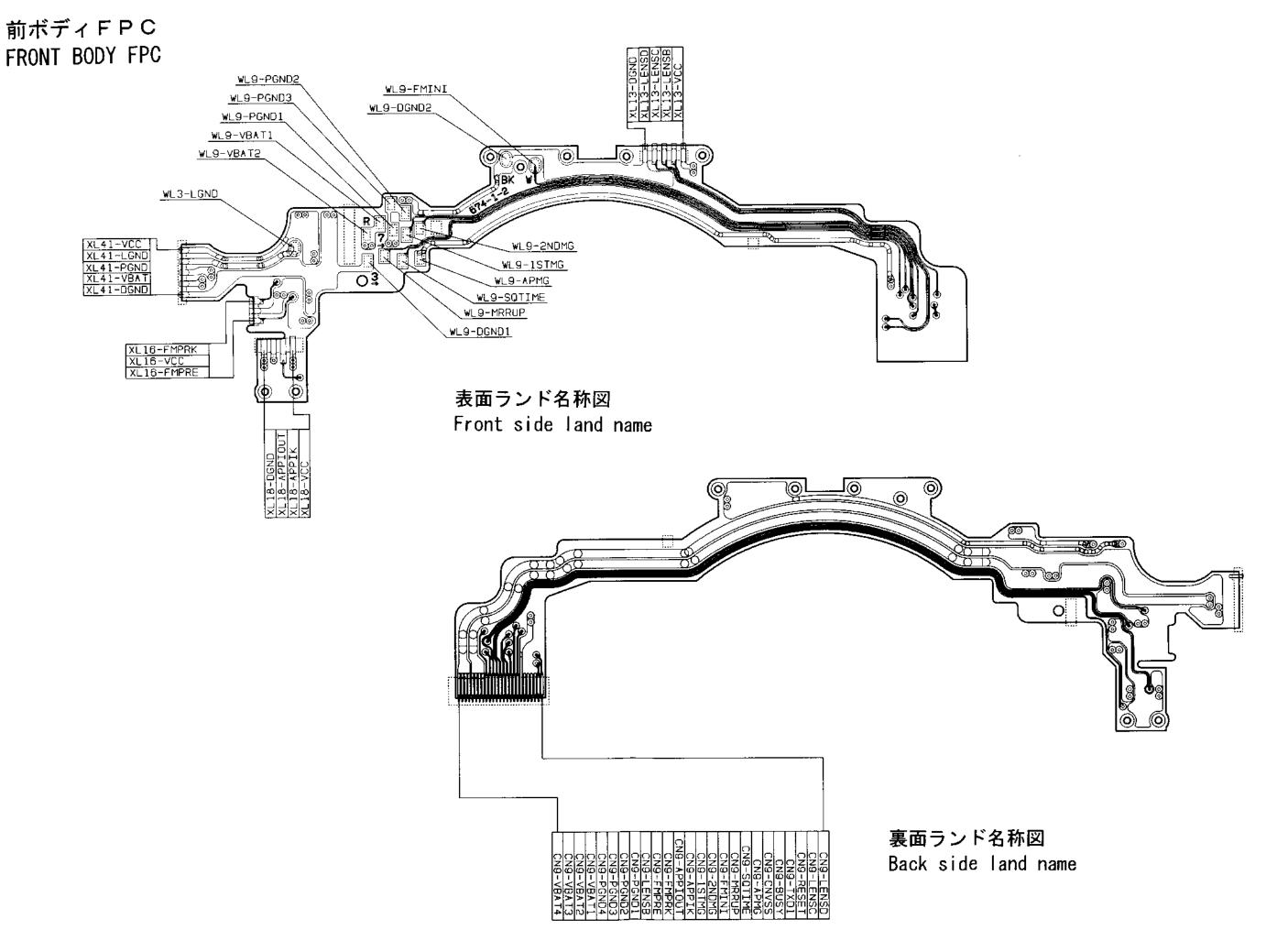


表面ランド名称入りパターン図 Front side pattern diagram with land name

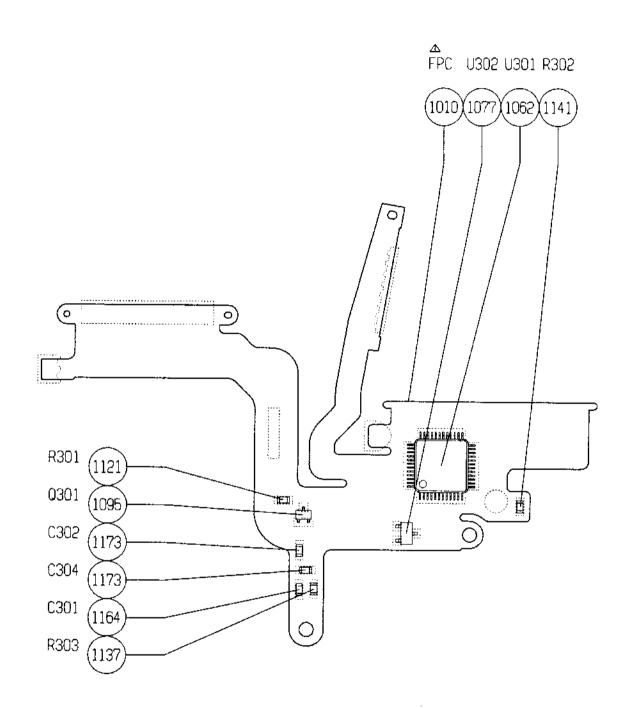




表面ランド名称入りパターン図 Front side pattern diagram with land name

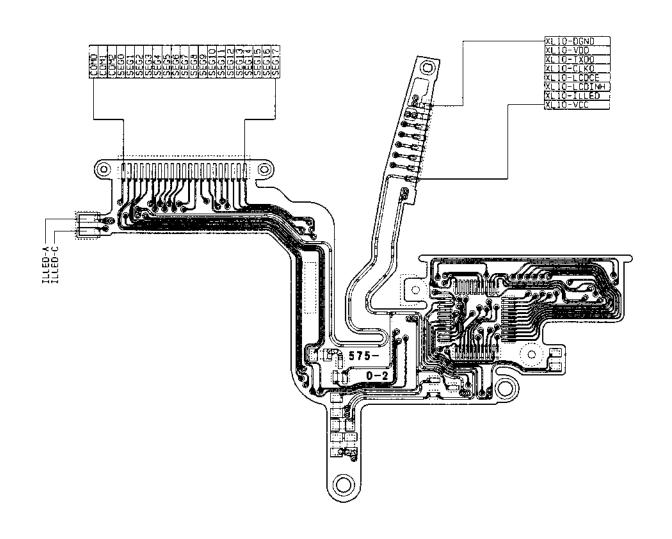


# 内外LCD FPC IN/EXTERNAL LCD FPC

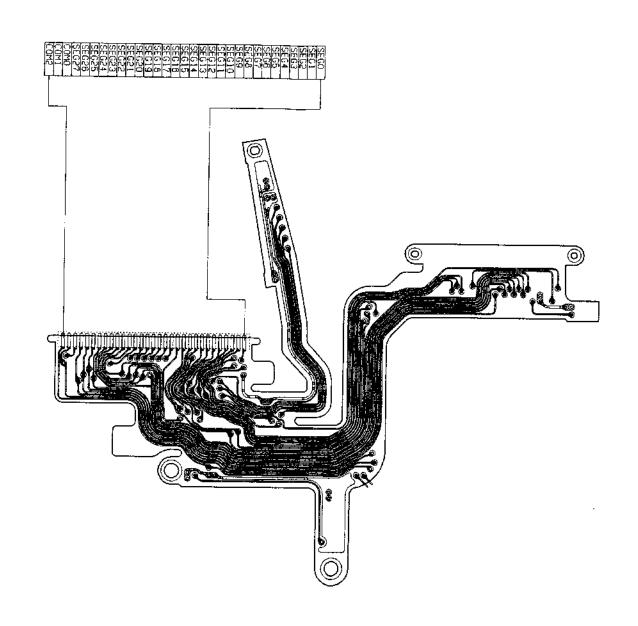


表面部品実装図 Front side parts location's diagram

# 内外LCD FPC IN/EXTERNAL LCD FPC

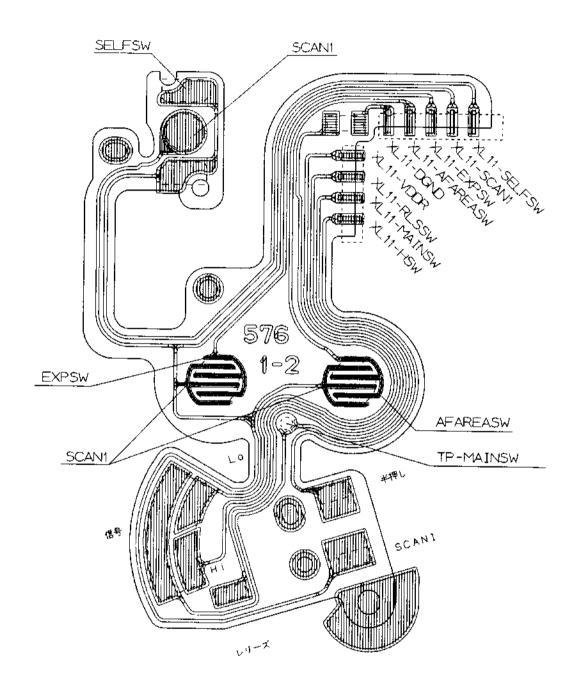


表面ランド名称図 Front side land name

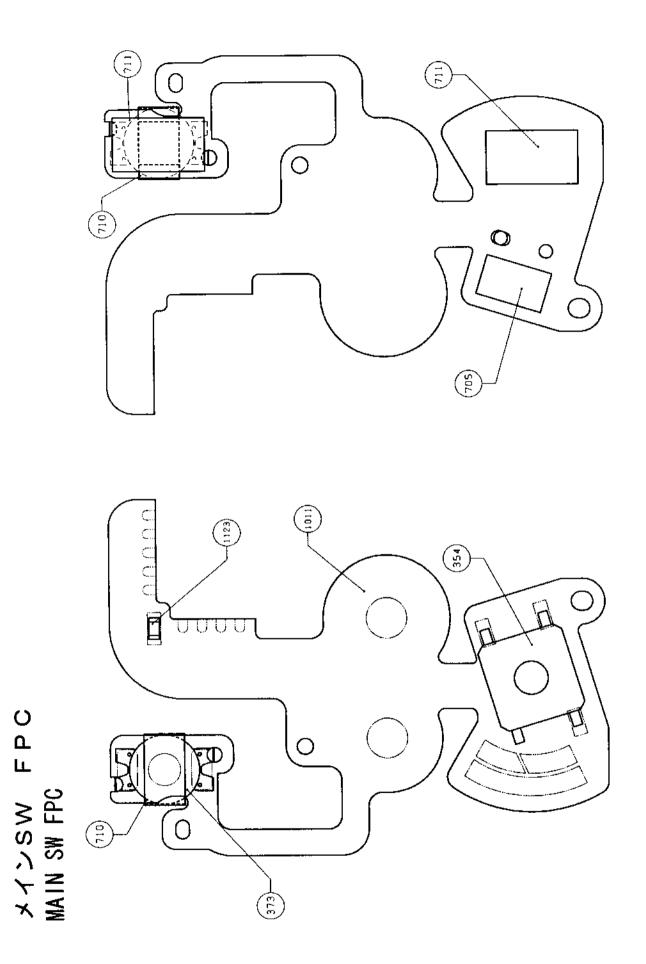


裏面ランド名称入りパターン図 Back side pattern diagram with land name

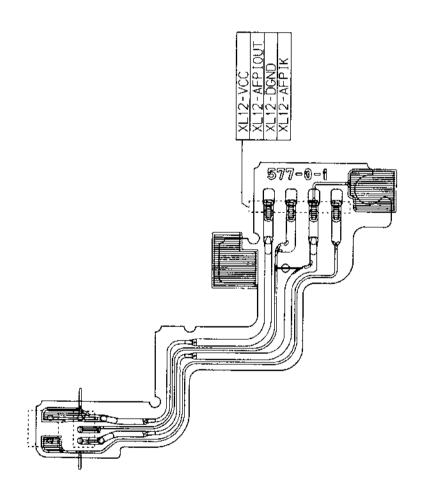
# メインSW FPC MAIN SWITCH FPC



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

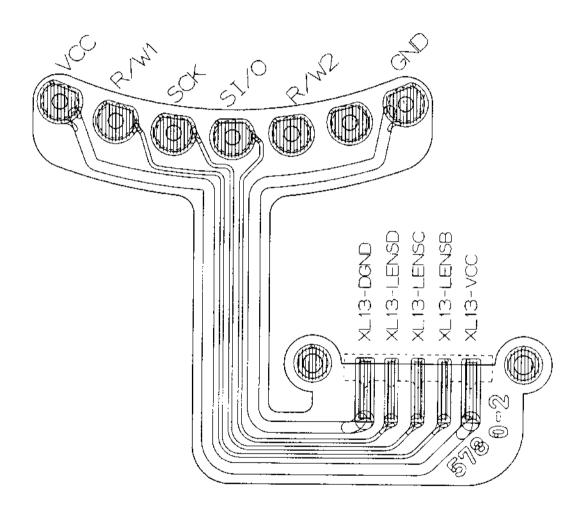


## AFP1 FPC



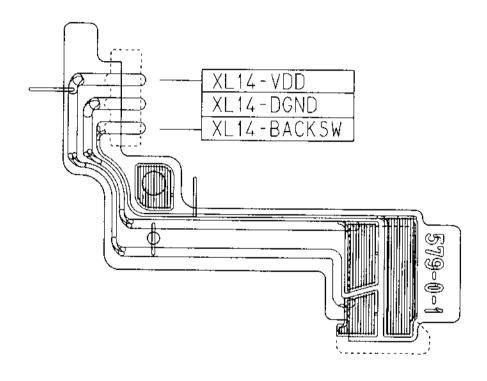
表面ランド名称入りパターン図 Front side pattern diagram with land name

## レンズ接点 F P C LENS CONTACT FPC



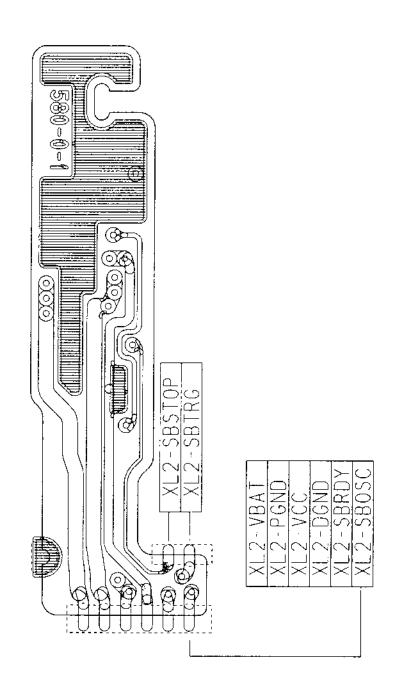
表面ランド名称入りパターン図 Front side pattern diagram with land name

### 裏蓋SW FPC BACK DOOR SW FPC

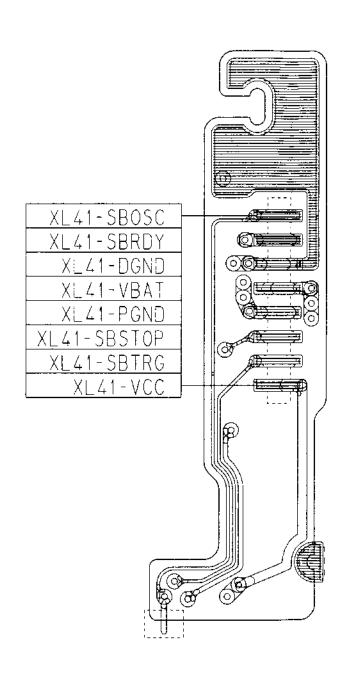


表面ランド名称入りパターン図 Front side pattern diagram with land name

# SBつなぎFPC SB CONNECTION FPC

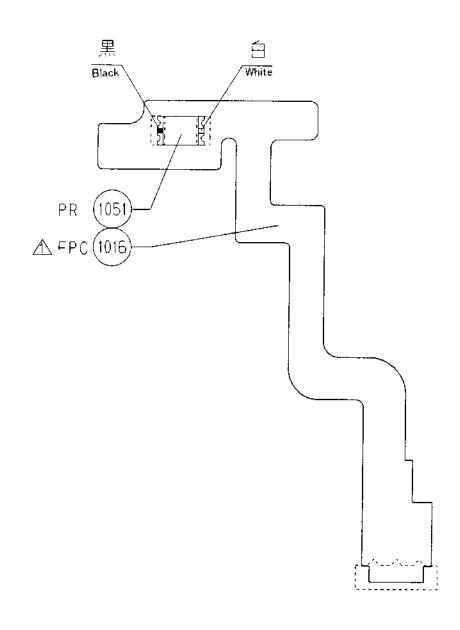


表面ランド名称入りパターン図 Front side pattern diagram with land name

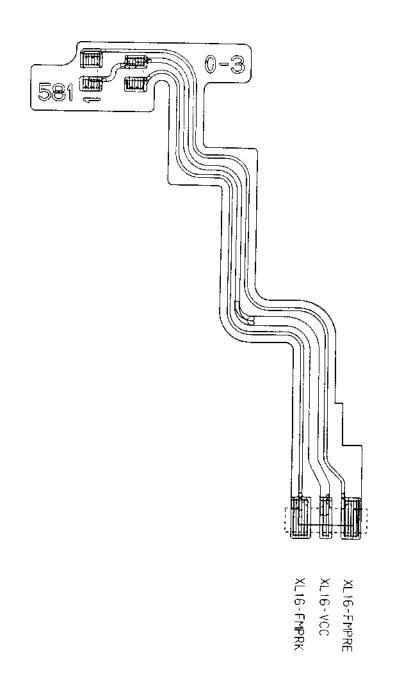


裏面ランド名称入りパターン図 Back side pattern diagram with land name

# 給送PR FPC FILM ADVANCE FPC

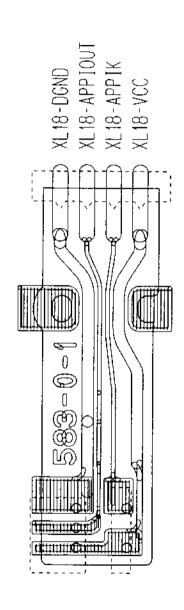


表面部品実装図 Front side parts location's diagram



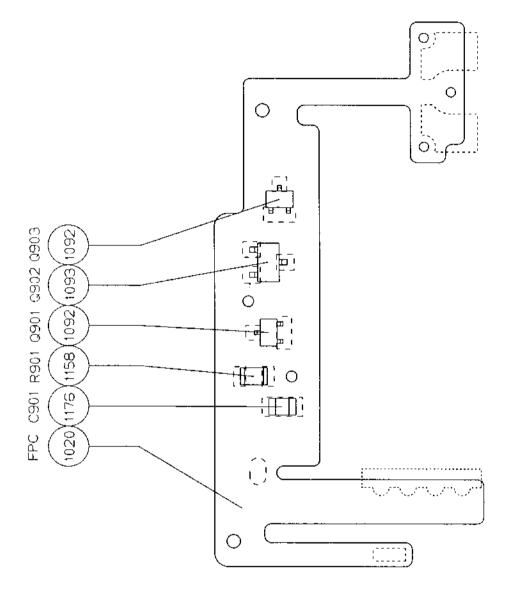
表面ランド名称入りパターン図 Front side pattern diagram with land name

## 絞りPI FPC APERTURE PI FPC



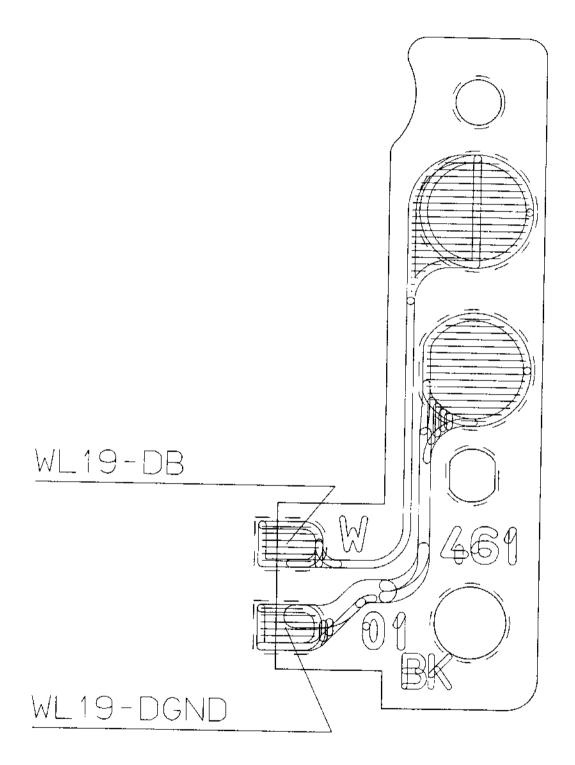
表面ランド名称入りパターン図 Front side pattern diagram with land name

データバックFPC DATA BACK FPC

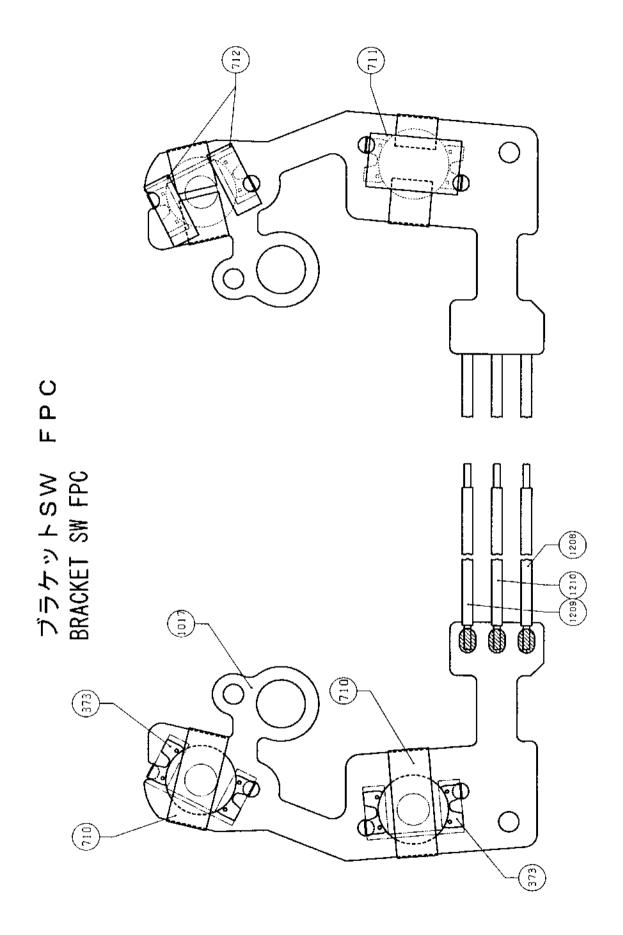


表面部品実装図 Front side parts location's diagram

## DB接点FPC DB CONTACT FPC



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



#### F55/N55/Us EEPROM DATA

2001-12-14

ADDRESS	CONTENTS	MP1		CPU	<del></del>		
	CONTENTS				l		
0		03.05					REMARK
		orlater					
0	CAMERA CONTROL DATA	0					
1		I					
3 5	CAMERA CONTROL DATA	0					
3 6	CAMERA CONTROL DATA	6 1					
3 7	CAMERA CONTROL DATA	153					
3 8	CAMERA CONTROL DATA	5 9	•				
3 9	CAMERA CONTROL DATA	153					
4 0	CAMERA CONTROL DATA	193					
4 1	CAMERA CONTROL DATA	153					
4 2	CAMERA CONTROL DATA	6 3					
4 3	CAMERA CONTROL DATA	5 1					
4 4	CAMERA CONTROL DATA	6.5				1	
4.5	CAMERA CONTROL DATA	0					
4 6	AFADJUSTMENT DATA	4 1					
4 7	AFADJUSTMENT DATA	2			<u> </u>	<u> </u>	
4 8	MBFADJUSTMENT DATA	0					
4 9	MBF ADJUSTMENT DATA	0					
5 0	AFADJUSTMENT DATA	0			-		
5 1	AFADJUSTMENT DATA	0	-				
·		1					
7 6	AFADJUSTMENT DATA	0					
7 7	AFADJUSTMENT 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	153	ļ.——— ļ			<del> </del>	
8 2	CAMERA CONTROL DATA	6 0					
8 3	CAMERA CONTROL DATA	153	···	-		1	
8 4	CAMERA CONTROL DATA	5 9					
8 5	CAMERACONTROLDATA	153					
8 6	CAMERA CONTROL DATA	6 3		LDIF		-	<del></del>

				CPU			
, DDBEGG	GO VIII VIII G	MP 1				T	DERGADIZ
ADDRESS	CONTENTS	03.05	<u> </u>				REMARK
		or later					
8 7	CAMERA CONTROL DATA	102					
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					
98	CAMERA CONTROL DATA	5 3					
9 9	CAMERA CONTROL DATA	1 3 7					
100	CAMERA CONTROL DATA	6 3					
101	CAMERA CONTROL DATA	102					
102	CAMERA CONTROL DATA	193					
103	CAMERA CONTROL DATA	1 0 2					
104	CAMERA CONTROL DATA	196					
105	CAMERA CONTROL DATA	153					
106	CAMERA CONTROL DATA	5 5					
107	CAMERA CONTROL DATA	6					
108	CAMERA CONTROL DATA	3 0					
109	CAMERA CONTROL DATA	0					
110	CAMERA CONTROL DATA	6.6					
111	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 CONTROLDATA	0					
1 1 6	CAMERA CONTROL DATA	8 0					
1 1 7	CAMERA CONTROL DATA	0					
118	CAMERA CONTROL DATA	6.3					
1 1 9	CAMERA CONTROL DATA	1 0 2		1			

				CPU			
		MP1					
ADDRESS	CONTENTS	03.05				. <u></u>	REMARK
		or later					
1 2 0	CAMERA CONTROL DATA	0					
I		1					
1 2 3	CAMERA CONTROL DATA	0					
1 2 4	CAMERA CONTROL DATA	0					
1							
179	CAMERA CONTROL DATA	0					
180	M 1/2000 ADJUATMENT DATA	0					
181	M 1/2000 ADJUATMENT DATA	0					
182	CAMERA CONTROL DATA	160					
183	CAMERA CONTROL DATA	15					
184	CAMERA CONTROL DATA	0					
		l					
2 4 3	CAMERA CONTROL DATA	0					,
2 4 4	BATTERYCHECKADJUSTMENT	170					
2 4 5	BATTERYCHECKADJUSTMENT	160					
2 4 6	BATTERY CHECKADJUSTMENT	160					
2 4 7	BATTERYCHECKADJUSTMENT	154					
2 4 8	CAMERA CONTROL DATA	1 3 0					
2 4 9	CAMERA CONTROL DATA	5					
250	CAMERA CONTROL DATA	1 0					
251	CAMERA CONTROL DATA	1 0					
252	CAMERA CONTROL DATA	171					
253	CAMERA CONTROL DATA	0					
254	CAMERA CONTROL DATA	176					
255	CAMERA CONTROL DATA	202					
2 5 6	CAMERA CONTROL DATA	2 0					
2 5 7	CAMERA CONTROLDATA	102					
258	CAMERA CONTROL DATA	0					-
		1					
2 7 5	CAMERA CONTROL DATA	0					
276	CAMERA CONTROL DATA	1 2 5					
277	CAMERA CONTROL DATA	1 0					
278	CAMERA CONTROL DATA	2 2	† · · · · · · · · · · · · · · · · · · ·		:		

			CPU			
41200000	OO NAMANIMO	MP1				DEMAND
ADDRESS	CONTENTS	03.05				REMARK
		or later				
2 7 9	CAMERA CONTROL DATA	7 0				
280	CAMERA CONTROL DATA	2 2 4				
281	CAMERA CONTROL DATA	2 4 6				
282	CAMERA CONTROL DATA	255				
283	CAMERA CONTROL DATA	0				
284	CAMERA CONTROLDATA	8.0				
285	CAMERA CONTROL DATA	1 0				
286	CAMERA CONTROL DATA	200				
287	CAMERA CONTROL DATA	0	 			
288	CAMERA CONTROL DATA	3 0				
289	CAMERA CONTROL DATA	1 0	 • • • • • • • • • • • • • • • • • • •			
290	CAMERA CONTROL DATA	8 0				
2 9 1	CAMERA CONTROL DATA	5				
292	CAMERA CONTROL DATA	0				
I						
3 1 5	CAMERA CONTROL DATA	0				
3 1 6	AE ADJUSTMENT DATA	1 2 8				
ı						
3 2 0	AE ADJUSTMENT DATA	1 2 8				
3 2 1	AE ADJUSTMENT DATA	104				:
3 2 2	AE ADJUSTMENT DATA	6 0				
3 2 3	AE ADJUSTMENT DATA	0				•
ı						
3 2 7	AE ADJUSTMENT DATA	0				
3 2 8	CAMERA CONTROL DATA	3 2				
3 2 9	CAMERA CONTROL DATA	0				:
3 3 0	CAMERA CONTROLDATA	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	252				
3 3 5	CAMERA CONTROL DATA	3 2	 			<del> </del>
3 3 6	CAMERA CONTROL DATA	1.6		<u> </u>	1	

	a non man	\ <u>-</u>		CPU			
	COMPANIE	MP1				:	DIMAADIZ
ADDRESS	CONTENTS	03.05					REMARK
		or later					
3 3 7	CAMERA CONTROL DATA	1 6					
3 3 8	CAMERA CONTROL DATA	100					
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			Ţ		
368	CAMERA CONTROL DATA	0					
369	CAMERA CONTROL DATA	3 2					
370	CAMERA CONTROL DATA	8			-		
3 7 1	CAMERA CONTROL DATA	1 6	:				
372	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	179					
3 7 7	CAMERA CONTROL DATA	179					
3 7 8	CAMERA CONTROL DATA	184		<u> </u>			
3 7 9	CAMERA CONTROL DATA	184	•				
380	AF ADJUSTMENT DATA	0					
3 8 1	CAMERA CONTROL DATA	135		! !		-	
3 8 2	AF ADJUSTMENT DATA	0					
383	CAMERA CONTROL DATA	1 6					
3 8 4	CAMERA CONTROL DATA	5					
385	CAMERA CONTROL DATA	0					
386	CAMERA CONTROL DATA	3 8					
3 8 7	CAMERA CONTROL DATA	1				1,12,2	
388	CAMERA CONTROL DATA	0					
389	CAMERA CONTROL DATA	0					
390	CAMERA CONTROL DATA	10					
3 9 1	CAMERA CONTROL DATA	0		-	1	i	
3 9 2	CAMERACONTROLDATA	0					
3 9 3	CAMERA CONTROL DATA	8.0			1		

		CPU							
		MP1		Ī			DERLADIA		
ADDRESS	CONTENTS	03.05					REMARK		
		or later							
3 9 4	AF ADJUSTMENT DATA	0							
- 1									
403	AF ADJUSTMENT DATA	0							
4 0 4	AF ADJUSTMENT DATA	0							
		1							
409	AF ADJUSTMENT DATA	0							
410	AF ADJUSTMENT DATA	0							
<u> </u>	1	T							
4 1 5	AF ADJUSTMENT DATA	0							
4 1 6	AF ADJUSTMENT DATA	0							
		1							
4 2 1	AF ADJUSTMENT DATA	0							
4 2 2	AF ADJUSTMENT DATA	0							
	l	1							
4 3 1	AF ADJUSTMENT DATA	0							
432	AF ADJUSTMENT DATA	0							
		1							
4 3 7	AF ADJUSTMENT DATA	0							
4 3 8	AF ADJUSTMENT DATA	0							
		l l							
4 4 3	AF ADJUSTMENT DATA	0					:		
4 4 4	AF ADJUSTMENT DATA	; 0							
		1							
4 4 9	AF ADJUSTMENT DATA	0					•		
450	CAMERA CONTROLDATA	0							
	1								
4 5 4	AF ADJUSTMENT DATA	0				-			
4 5 5	AF ADJUSTMENT DATA	0		1			-		
				1	-				
5 3 0	AF ADJUSTMENT DATA	0							
	I	-			<u> </u>				
572	AF ADJUSTMENT DATA	0							
<u> </u>	1					<del>-  </del>			

				CPU			
	COMPANIO	MP1	• • •				DEDIADIZ
ADDRESS	CONTENTS	03.05					REMARK
		or later					
6 1 4	AF ADJUSTMENT DATA	0					
i i							
655	AF ADJUSTMENT DATA	0					
656	CAMERA CONTROL DATA	25					
657	CAMERA CONTROL DATA	0					
658	AF ADJUSTMENT DATA	2 3 7	•				
6 6 1	AF ADJUSTMENT DATA	2 3 7					
6 6 2	CAMERA CONTROL DATA	169					
663	CAMERA CONTROL DATA	3 2					
6 6 4	AF ADJUSTMENT DATA	0					
I		1					
667	AF ADJUSTMENT DATA	0					
6 6 8	AF ADJUSTMENT DATA	0					
671	AF ADJUSTMENT DATA	0					
672	AF ADJUSTMENT DATA	1 5					
673	AF ADJUSTMENT DATA	1 2					! !
674	AF ADJUSTMENT DATA	1 2					: 
675	AF ADJUSTMENT DATA	1 2					
676	AF ADJUSTMENT DATA	105				L	
677	AF ADJUSTMENT DATA	7 3					
678	AF ADJUSTMENT DATA	7.3					
6 7 9	AF ADJUSTMENT DATA	7 3					
680	CAMERA CONTROL DATA	100					
681	CAMERA CONTROL DATA	3 7					
682	CAMERA CONTROL DATA	2					
683	CAMERA CONTROL DATA	2 0					
684	CAMERA CONTROL DATA	179					
6 8 5	CAMERA CONTROL DATA	5 1					
686	CAMERA CONTROL DATA	7 1					
687	CAMERACONTROLDATA	112					
688	CAMERA CONTROL DATA	6 4					

	·		 CPI	U		
	G 6 \ 100 \	MP 1				DED 5 4 DV
ADDRESS	CONTENTS	03.05		+		REMARK
		or later				
689	CAMERA CONTROL DATA	1 2				
690	CAMERA CONTROL DATA	1				
691	CAMERA CONTROL DATA	8 8				
692	CAMERA CONTROL DATA	5 1				
693	CAMERA CONTROL DATA	6				
694	CAMERA CONTROL DATA	1 1 2				
695	CAMERA CONTROL DATA	4				
696	CAMERA CONTROL DATA	6 4				
697	CAMERA CONTROL DATA	1 6				
698	CAMERA CONTROL DATA	128				
699	CAMERA CONTROL DATA	1 6				
700	CAMERA CONTROL DATA	3 2				
7 0 1	CAMERA CONTROL DATA	3 8				
702	CAMERA CONTROL DATA	3 8				
703	CAMERA CONTROL DATA	1 0				
704	CAMERA CONTROL DATA	8				
705	CAMERA CONTROL DATA	8				
706	CAMERA CONTROLDATA	0		-		
707	CAMERA CONTROL DATA	5				
7 0 8	CAMERA CONTROL DATA	7.5				
709	CAMERA CONTROLDATA	6 4				
7 1 0	CAMERA CONTROL DATA	2 0				
7 1 1	CAMERA CONTROL DATA	0				
7 1 2	CAMERACONTROLDATA	0	!			:
7 1 3	CAMERA CONTROL DATA	1 0 4			•	
7 1 4	CAMERA CONTROL DATA	3				
7 1 5	AE ADJUSTMENT DATA	0				
		; I	 			
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	208				

			CF	, fi	
ADDINE	CONTRACTO	MP1			DEMADU
ADDRESS	CONTENTS	03.05			REMARK
		or later			
		I			
7 2 6	CAMERA CONTROL DATA	208			
7 2 7	CAMERA CONTROL DATA	192			
		1			
7 3 0	CAMERA CONTROL DATA	192			
7 3 1	CAMERA CONTROL DATA	4 0			
7 3 2	CAMERA CONTROL DATA	0			
1					
7 5 3	CAMERA CONTROL DATA	0			
7 5 4	CAMERA CONTROL DATA	1 4 9			
755	CAMERA CONTROL DATA	1 2 8			[ t
756	CAMERA CONTROL DATA	1 0			
757	CAMERA CONTROL DATA	5 0			
758	CAMERA CONTROL DATA	150			 
759	CAMERA CONTROL DATA	8.0			
760	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 -1	CAMERA CONTROL DATA	1 1 0			
765	CAMERA CONTROL DATA	4.8			
7 6 6	CAMERA CONTROL DATA	0			
7 6 7	CAMERA CONTROL DATA	100			
7 6 8	CAMERA CONTROL DATA	100		:	
7 6 9	CAMERA CONTROL DATA	8.5		İ	
770	CAMERA CONTROL DATA	6.0			
7 7 1	CAMERA CONTROL DATA	4 0			
772	CAMERA CONTROL DATA	3 0			
773	CAMERA CONTROL DATA	3 9			
7 7 4	CAMERA CONTROL DATA	4			
775	CAMERA CONTROL DATA	1 4			
776	CAMERA CONTROL DATA	6			
777	CAMERA CONTROL DATA	0			

			CPU			
. DDDBGG	GOVERN THE	MP1				DENALDY
ADDRESS	CONTENTS	03.05				REMARK
		or later				
778	CAMERA CONTROL DATA	0				
779	CAMERA CONTROL DATA	0				
780	CAMERA CONTROL DATA	0				
7 8 1	APERTUREADJUSTMENTDATA	5 3				
782	CAMERA CONTROL DATA	2 9				1.
783	CAMERA CONTROL DATA	98				
784	CAMERA CONTROL DATA	170				
785	CAMERA CONTROL DATA	50				
786	CAMERA CONTROL DATA	120				
787	CAMERA CONTROL DATA	2 2				
788	CAMERA CONTROL DATA	3 9				
789	CAMERA CONTROL DATA	3 9				
790	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	176				
794	CAMERA CONTROL DATA	2 2				
795	CAMERA CONTROL DATA	2 7				
796	CAMERA CONTROL DATA	3 9				
7 9 7	CAMERA CONTROL DATA	3 9			:	
7 9 8	CAMERA CONTROL DATA	16				
799	CAMERA CONTROL DATA	8				
800	CAMERA CONTROL DATA	2 0				
801	CAMERA CONTROLDATA	2 0				· <del>·</del>
8 0 2	CAMERA CONTROLDATA	8				
803	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				
808	CAMERA CONTROLDATA	0				
8 0 9	CAMERA CONTROL DATA	2 8	 		į	
8 1 0	CAMERA CONTROLDATA	2.8		1		

				CPU		
	0.01.000.000	MP1		Τ		PD (4 DV)
ADDRESS	CONTENTS	03.05				REMARK
		or later				
8 1 1	CAMERA CONTROL DATA	0				
8 1 2	CAMERA CONTROL DATA	-45				
8 1 3	CAMERA CONTROL DATA	-45				
8 1 4	CAMERA CONTROL DATA	100				
8 1 5	CAMERA CONTROL DATA	- 4 5				
8 1 6	CAMERA CONTROL DATA	- 4 5				
817	CAMERA CONTROL DATA	100				
8 1 8	CAMERA CONTROL DATA	- 4 5				
8 1 9	CAMERA CONTROL DATA	-45				
820	CAMERA CONTROL DATA	100				
8 2 1	CAMERA CONTROL DATA	1 0			Ì	
8 2 2	CAMERA CONTROL DATA	0			Ì	
823	CAMERA CONTROL DATA	150				
824	CAMERA CONTROL DATA	1 0	<b></b>			
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	128				
830	CAMERA CONTROL DATA	1 0				
8 3 1	CAMERA CONTROL DATA	5.2				
832	CAMERA CONTROL DATA	3 0				
833	CAMERA CONTROL DATA	0				
834	CAMERA CONTROL DATA	5				
8 3 5	CAMERA CONTROL DATA	1 2 8		i		
8 3 6	CAMERA CONTROL DATA	7 5				
837	CAMERA CONTROL DATA	7				
838	CAMERA CONTROL DATA	4				
839	CAMERA CONTROLDATA	2 9				
8 4 0	CAMERACONTROLDATA	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				

				CPU		
ADDDECC	CONTENTS	MP1	<u> </u>			DIDMANDIZ
ADDRESS	CONTENTS	03.05				REMARK
		or later				
8 4 4	CAMERA CONTROL DATA	176				 
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				
850	CAMERA CONTROL DATA	1 0				
851	CAMERA CONTROL DATA	2 9				
852	CAMERA CONTROL DATA	2 0				
853	CAMERA CONTROL DATA	8				
8 5 4	CAMERA CONTROL DATA	2 8				
8 5 5	CAMERA CONTROL DATA	28				
8 5 6	CAMERA CONTROL DATA	0				
857	CAMERA CONTROL DATA	2 1 1				
858	CAMERA CONTROL DATA	2 1 1				
8 5 9	CAMERA CONTROL DATA	100				
860	CAMERA CONTROL DATA	1 0				
8 6 1	CAMERA CONTROL DATA	0				
862	CAMERA CONTROL DATA	0				
863	CAMERA CONTROL DATA	100				
8 6 4	CAMERA CONTROL DATA	150			1	 1
865	CAMERA CONTROL DATA	2.5				
866	CAMERA CONTROL DATA	15				1
8 6 7	CAMERA CONTROL DATA	170				
868	CAMERA CONTROL DATA	110				
869	CAMERA CONTROL DATA	2 0				
870	CAMERA CONTROL DATA	3 9				
8 7 1	CAMERA CONTROL DATA	2 9				
872	CAMERA CONTROL DATA	3 9				
873	CAMERA CONTROL DATA	2				
874	CAMERA CONTROL DATA	1 0				
8 7 5	CAMERA CONTROL DATA	250				
8 7 6	CAMERA CONTROL DATA	160				

		CPU					
		MP1					4
ADDRESS	CONTENTS	03.05					REMARK
		or later					
877	CAMERA CONTROL DATA	1 1 0					
878	CAMERA CONTROL DATA	2 4					
879	CAMERA CONTROL DATA	4 3					
880	CAMERA CONTROL DATA	2 9					
8 8 1	CAMERA CONTROL DATA	4 9					
882	TTL ADJUSTMENT DATA	1 3 3					
883	TTL ADJUSTMENT DATA	96					- " .
884	CAMERA CONTROL DATA	7 0					
885	CAMERA CONTROL DATA	10					
886	CAMERA CONTROL DATA	2					
887	CAMERA CONTROL DATA	179					
888	CAMERA CONTROL DATA	98					
889	CAMERA CONTROL DATA	10					
890	CAMERA CONTROL DATA	5 9					,
8 9 1	CAMERA CONTROL DATA	0					
892	CAMERA CONTROL DATA	0					N. II
893	CAMERA CONTROL DATA	0					
894	CAMERA CONTROL DATA	100					
895	CAMERA CONTROLDATA	0					
896	CAMERA CONTROL DATA	58					
897	CAMERA CONTROL DATA	108					
898	CAMERA CONTROL DATA	0					
926	CAMERA CONTROL DATA	0					
927	CHECK SUM DATA	_					
Ī							
960	CAMERA CONTROL DATA	_					
1		1					
1023	CAMERA CONTROL DATA						

#### **INSPECTION CRITERIA and TOOLS**

[1]	] Ins	pection Criteria	R	1
[2]	] Too	18	Т	1

#### **CONDITION FOR INSPECTION**

Normal temperature :  $2.0 \pm 5$  °C Humidity :  $6.5 \pm 2.0$  %

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**

lacktriangle When using the power supply, set the output to 5.5V with a resistance of 0.5  $\Omega$  .

INSPECTION ITEM	CRITERIA	REMARKS
Shutter System		Exposure Mode: M, S
(1)Tolerance	1/2000~1/1500 : 0±0.45EV	Shutter tester (EF-8000)
(1/Toterance	1/1500~30s : 0±0.3EV	Shutter tester (III 5000)
(2)Curtain Speed	6.9ms or less	21mm
(3)Dispersion	1/2000~1/180 : Within 0.45EV	
(3)Dispersion	1/180~30s : Within 0.3EV	
(4)Curtain Bound	There should be on curtain bound.	
AE Image Surface Exposure	There should be on earth bound.	Exposure Mode: P,A,S
(1)Tolerance	1/2000~1/125 : ±0.65EV	Shutter tester (EF-8000)
(1) Totel affice	less than $1/125$ : $\pm 0.5$ EV	AF50/1.4D
AE Diaphragm Control	LV12 (ISO 100), 1/125	Exposure Mode : S
Accuracy	From the maximum aperture to 4th stop	Shutter tester (EF-8000)
(1)Tolerance	aperture : ±0.5EV	AF50/1.4D
(1) tylerance	From F8 to the minimum aperture	
	: ±0.65EV	
	0.0027	
(2)Dispersion	Within 0.5EV	
AF Adjustment Accuracy		Personal Computer and other
(1)Yaw	Center: 0±4mrad	special tools
	Side : 0±10mrad	
(2)Pitch	Center: 0±5mrad	
	Side : 0±10mrad	
(3)Lark	0±50μm	
Diaphragm Lever Height	3.4±0.1mm	J18004
Main Mirror 4 5 °	Upper/Lower: ±15'	When it is stood up, there
(Collimator		should be no gap.
Measured Value)	Right/Left: ±30'	J19002 · J15391 · J18037
	Distortion: Within 8'	
Sub-Mirror 47.75°	Upper/Lower : '5' +20′ ~-45′	J19002 · J18268·1
<u>-</u>	Distortion: Within 8'	Hex key Wrench
M. B. F	Outer Rail: 46.67±0.06mm	J18001
	Outer Rail Parallelism: Within 0.08mm	Dial Gauge
	Height Difference between Inner and Outer Rails:	
	0.21mm~0.26mm	
	Aperture Surface Stage Difference of Inner Rail:	
. <u>.                                   </u>	0.26mm or more	
∞(Infinity)Agreement	$\pm 100 \mu$ m	J18010

INSPECTION ITEM	CRITERIA	REMARKS			
Battery Check		Power Supply			
(1)First Level	Reducing Direction: 5.0V±0.2V				
	Returning Direction: 5.3V±0.2V				
(2)Second Level	Reducing Direction: 4.8V±0.2V				
	Returning Direction: 5.0V±0.2V				
Image Plane Size	Lenght: $24_{0}^{+0.4}$ m m / Width: $36_{0}^{+0.4}$ m m	Calipers			
(50/1.4 F5.6)		ISO 100 Film			
Image Plane Position	$[H 1 - H 2] = \pm 0.4 \text{m m or less}$				
	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□				
	2 ± 1, 0mm				
Frame Interval	2 ± 1.0 m m				
Consumption Current	CALL Services in ONE 120 MA enlarge				
Items(1) and later, the	①Main Switch is OFF: 30 \( \mu \) A or less ②Main Switch is ON and Half-Push Timer is OFF: 200 \( \mu \) A or less				
values are products of	ł				
consumption current and	<ul> <li>③Main Switch is ON and Half-Push Timer is ON: 110 \( \mu \) A or less</li> <li>④AF50/1.8 Lens is driven: 500mA sec or less (Operating Time: 1.2 sec or less)</li> </ul>				
operating time (4)AF50/1.8 Lens is driven: 500mA sec or less (Operating Time: 1.2 sec or 5AF70-300/4.5-5.6G Lens is driven: 800 µA sec or less (Operating Time: 2.2 sec or less)					
	⑤Empty Release: 170 μA sec or less (Operating Time: 280ms or less) ⑥Empty Feeding (prewind): 4000mA sec or less (Operating Time: 15 sec or less) ⑧Film Winding: 200m A sec or less (Operating Time: 420ms or less)				
	(9) Film Rewinding: 750m A 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	After Haif-Push Switch OFF: Power shoul	d be turned OFF 5±1 sec later.			
(When using the built in		d be turned OFF 5±1 sec later.			
and external speed light)	After Releasing : Power shoul	id be turned OFF 3±1 sectater.			
Shutter Time Battery life	1 hours or more				
Brightness for AF Assist	Brightness for Light turned ON (50/1.8): It should be turned ON and				
Light turned ON	equivalent to EV5 or less				
Finder	Visuality Ration: Vertical and Horizontal 89±3%				
	Parallax : Upper/Lower, Right/Left : Within 0.5mm				
	Evo Point				
	Eye Point: Distance from eyepiece (-1.52m <sup>-1</sup> (dpt))	7服5) 15.87mm — 10%			

#### 工 具 TOOLS

工具番号	名 称	備考
TOOLS No.	NAME	Others
J15315-2	カメラ通信工具	For F70, F50
	CAMERA COMMUNICATION TOOL	F60, F80
J18314	RS232C 用電源工具	
010011	POWER SUPPLY FOR RS232C	
J19109	MC-31	For F5, F100
919103		F80
J18266	AF調整用Zレンズ (1m用)	For F5, F100
310200	AF TESTING LENS (For 1 m)	
J15391	45°出し工具(反射ミラー)	
919991	TOOL MIRROR	
J18268-1	サブミラー45°出し工具	For F5, F100
3182881	SUB MIRROR ANGLE ADJUSTMENT TOOL	
J18273	AFチャート	For F5, F100
010213	AF ADJUSTMENT CHART	F80
J18230	YAE, PITCH 工具	For F5, F100
	YAE, PITCH ADJUSTMENT TOOL	F90, F90X
	点検・調整ソフト IBM3.5インチ	
J18336		
	INSPECTION & ADNUSTMENT F.D.FOR IBM PC 3.5'	

注意:J18268-1 サブミラー4.5 ° 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.