

作成承認印

配布許可印



Nikon F100 **FAA35051**

REPAIR MANUAL

Nikon | **NIKON CORPORATION**
Tokyo, Japan

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Specifications

1 . Photometry

The pattern on photo detector

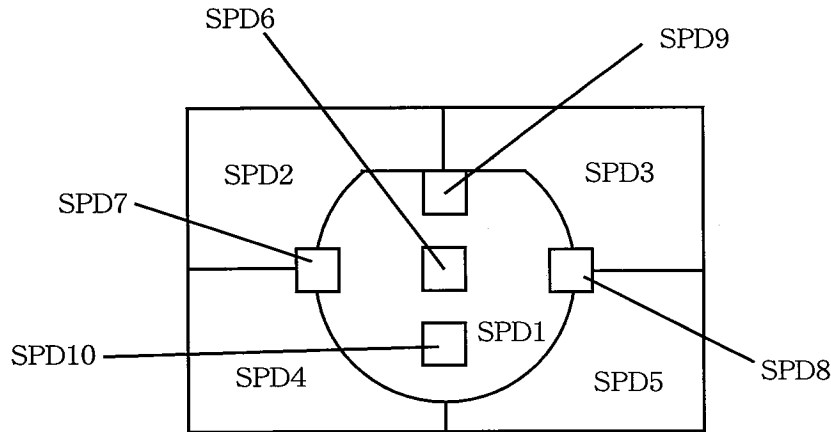


Photo detector : 10-division multiple segment SPD

Photometry performance : Multiple pattern photometry : EV 0 to 21

Center-weighted metering : EV 0 to 21

Spot metering : EV 3 to 21

In use of 50/1.4 lens in accordance with ISO100

2 . TTL auto-flash control

Photo detector : 5-segment TTL multi sensor

Film speed : ISO 25 to 1000 guaranteed

3 . A F

TTL phase difference detection method using the AP-4 module

Metering performance

Limit of measured luminance	Limit of open aperture value F
EV - 1 to +19	F 1.2 to 5.6
under room temp.,in accordance with ISO 100	

4 . Finder

Finder screen	B-type clear mat screen III
Superimpose screen	With photometry and metering functions
Possibility of finder replacement	Impossible
Possibility of screen replacement	Possible for B-type and E-type alone : No compatibility with F90X's
Finder field frame ratio	Approximately 96 % in both length (50mm Lens、∞)
Diopter	-3~+ 1 Dpt
Eyepoint	21.1 mm in response to - 1 Dpt

5 .In-finder LCD back light

Using the yellow-green LED, back light shall apply.

Its luminance varies according to any photometry value(s).

6 .Superimpose display

LED light shall apply to the five micro prism in response to the AF area on the dedicated screen.

Its luminance varies according to any photometry value(s).

7 .The switches for mechanism

Name of switch	Arranged position
Rear cover switch	On the rear cover open/close key
Sync. switch	In the shutter unit
Sequence switch	In the sequence unit
Film detection switch	In the F detection unit
Rear curtain switch	In the shutter unit
Battery identification switch	On the grip of rear body
Battery release switch	On the grip of rear body
Power pack release switch a	On the bottom of rear body
Power pack release switch b	On the bottom of rear body
Mirror latch switch	On the I base plate
Lens release switch	On the front body

8 .Preview function

By forcibly pressing the preview button, the preview function starts to work.

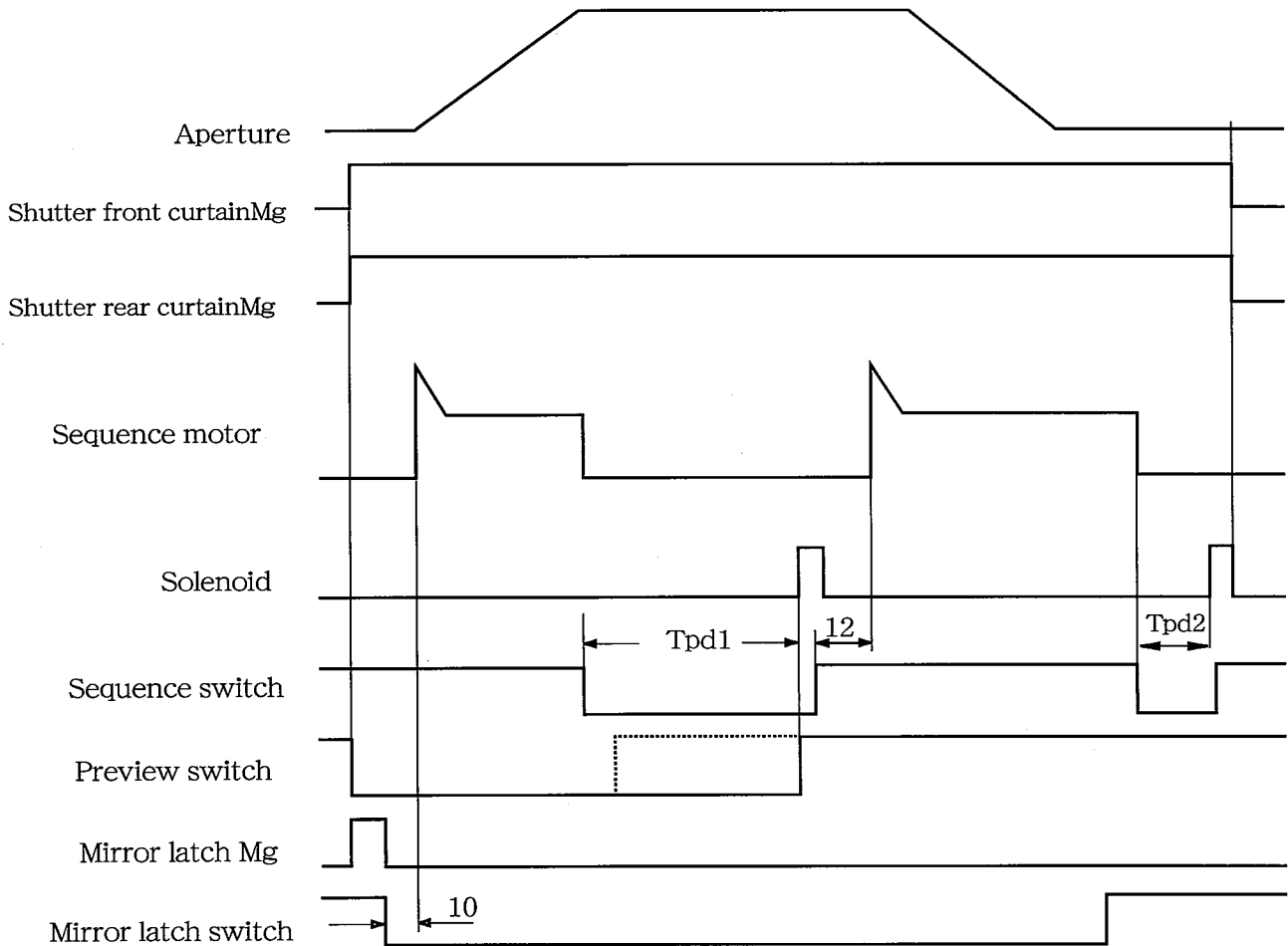
Then, the aperture mode shall be controlled by any controlled aperture value(s) without mirror-up mode.

During the preview function, any aperture value displayed just before the commencement of preview mode shall be maintained.

Then, any others such as shutter speed lock and exposure indicator shall not be displayed.

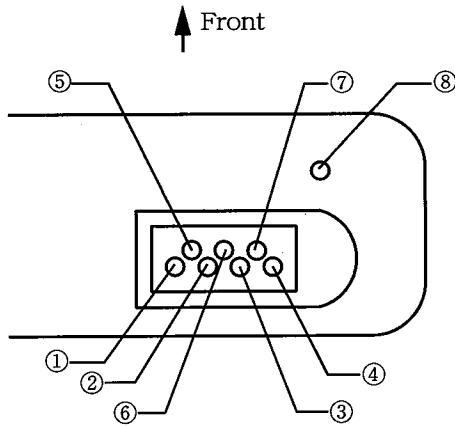
Besides, even if the exposure mode changes during the preview, the displayed aperture value shall be maintained and then the displayed aperture value changes after canceling the preview function.

The figure of preview sequence



- ① According to the ON signal from the preview switch, conduction shall be started to the mirror latch magnet and to the front and rear shutters magnets.
- ② As soon as the mirror latch switch detecting the latch mode of mirror is turned on, the conduction shall be stopped.
- ③ As soon as the mirror latch switch is turned on, the aperture control starts after 10 ± 1 m sec.
- ④ The conduction to the shutter magnet shall be maintained until the solenoid is turned off for the second time.
- ⑤ While pressing the preview button, the preview mode is maintained.
 Then, select more delayed timing from either timing to output the off-signal from the preview switch or timing to output the Tpd1, and turn on the solenoid.
 Then, the preview mode goes to the sequence cancellation mode.
 $Tpd1 = 30 \pm 1$ (0 to 100) mse
- ⑥ The sequence motor shall be operated to drive after 12 m sec from the sequence switch's OFF signal.
- ⑦ After Tpd 2 from the sequence switch's ON signal, the conduction starts to the solenoid.
 $Tpd 2 = 30 \pm 1$ (0 to 100) mse

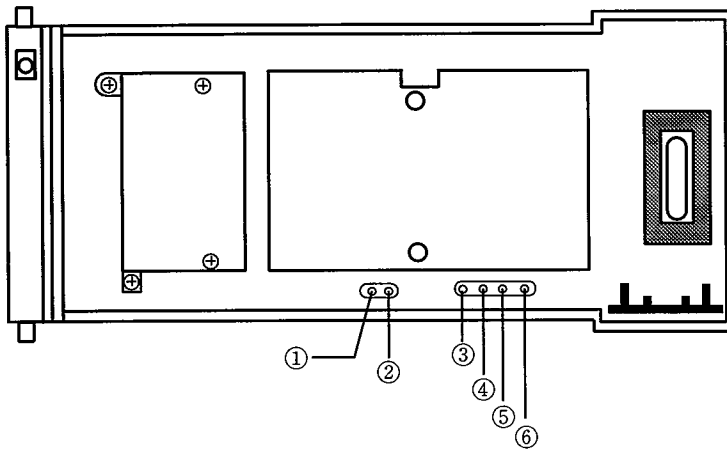
9. The contacts for power pack



The figure for the bottom of camera

No.	Function of each contact
①	For command dial b on vertical position
②	For command dial a on vertical position
③	For AF operation
④	For shutter release from vertical position
⑤	For battery identification 0
⑥	For pre-release from vertical position
⑦	For battery release
⑧	For power pack change-over switch

1 0. The contacts on the rear cover for connection with the camera

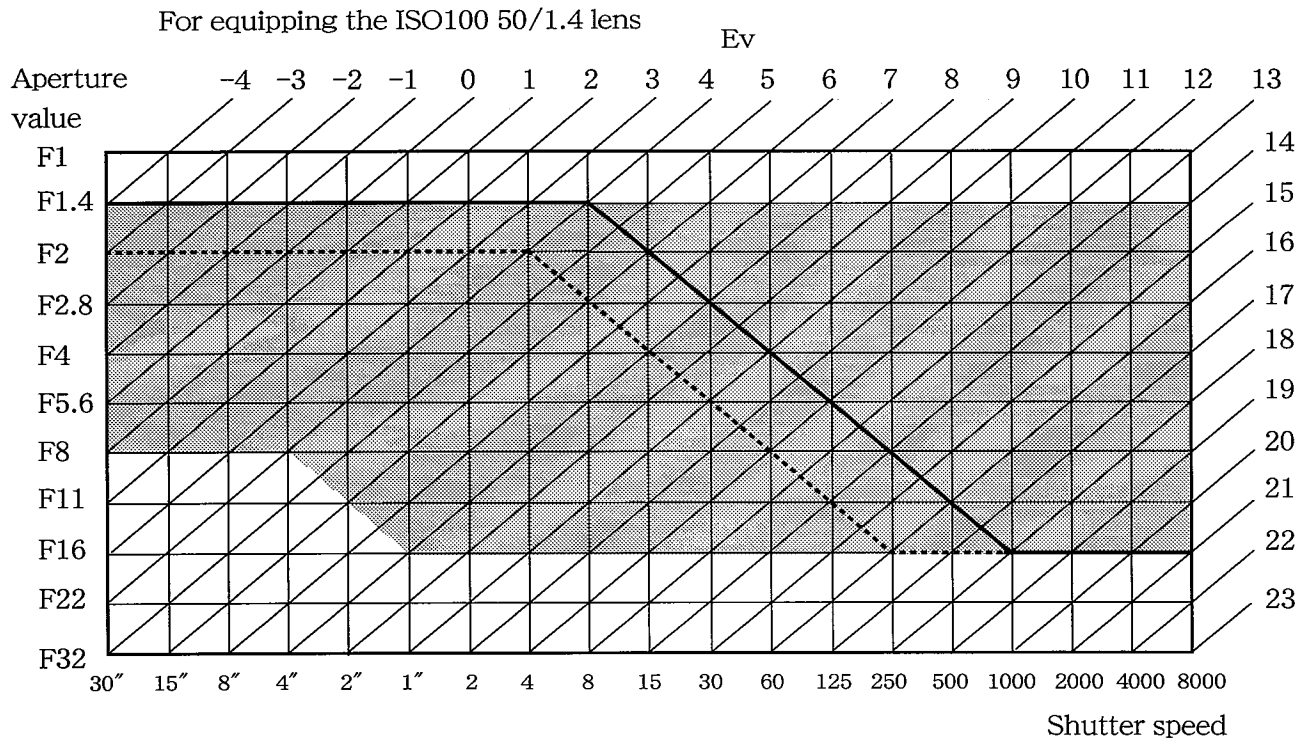


No.	Function of each contact
①	G N D
②	AF area mode
③	Focus area selector for left position
④	Focus area selector for upper position
⑤	Focus area selector for right position
⑥	Focus area selector for lower position


1 1. Shutter

- (1) Copal Company Ltd.-made CHS-EM III Unit shutter
- (2) Max. speed 1/8000 sec. Sync. 1/250 sec.

1 2 .Program diagram



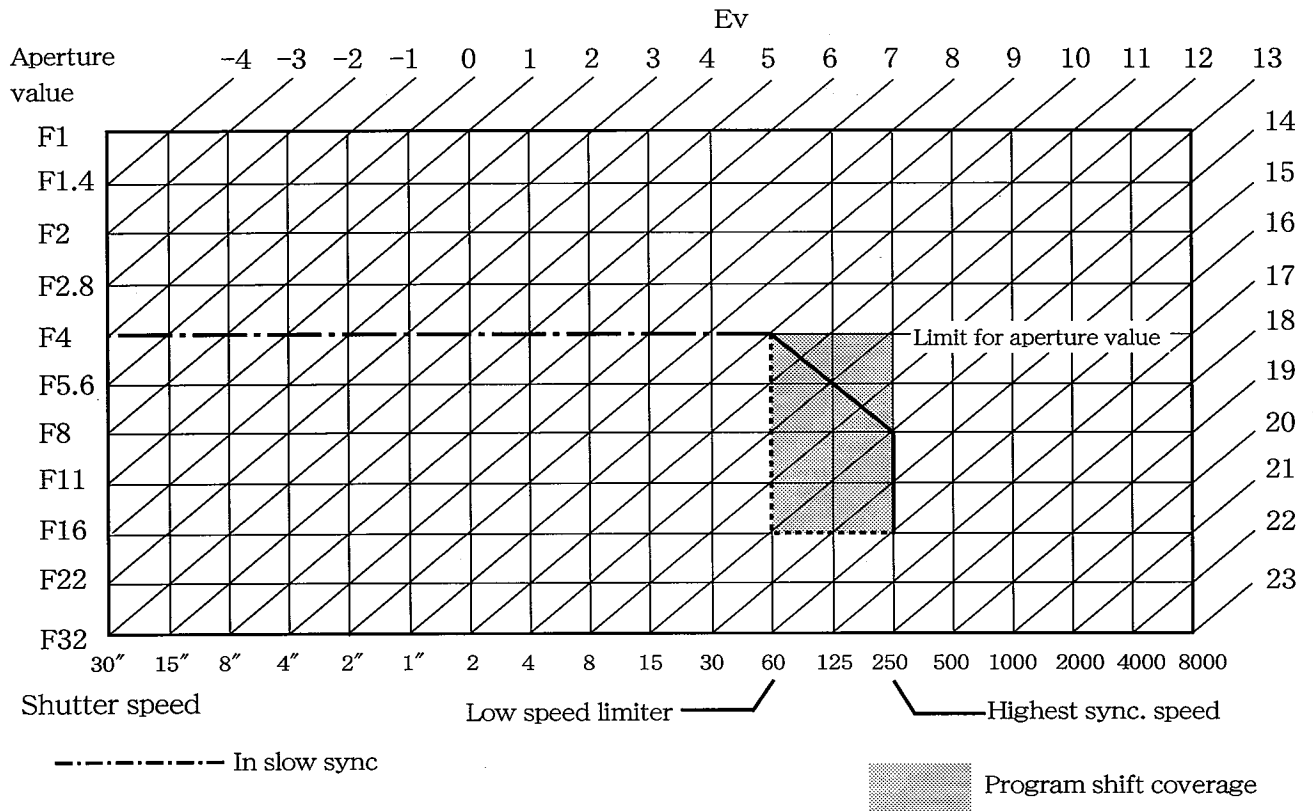
The pulse shows the line which goes 1-step further to the lower shutter speed in the program shift.

 Program shift coverage

Program shift

- ① For the program shift, while constantly maintaining the EV value, the aperture value and the shutter speed shall be varied in order to change the diagram.
- ② The program shift shall be made by shifting the program diagram in the shutter speed direction.
In this accord, it shall be regarded impossible to make such a shift going beyond each control limit in the open aperture mode and the minimum aperture mode.
- ③ The shift shall be made for the program diagram even at the control limit.
- ④ In the program shift, ± 5 [EV] shall be specified the limit for both of the aperture value and the shutter speed.

1 3 .The program diagram in the case of equipping the speed light



The program shift in the case of equipping the speed light

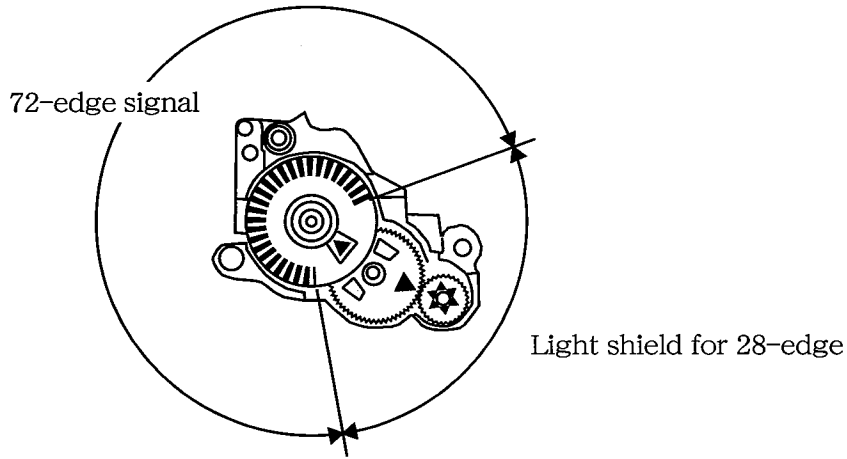
- ① For the program shift, while constantly maintaining the EV value, the aperture value and the shutter speed shall be varied in order to change the diagram.
- ② The program shift shall be made by shifting the program diagram in the shutter speed direction.
In this accord, it shall be regarded impossible to make such a shift going beyond each control limit in the open aperture mode and the minimum aperture mode.
- ③ The shift shall be made for the program diagram even at the control limit.
- ④ In the program shift, ± 5 [EV] shall be specified the limit for both of the aperture value and the shutter speed.
- ⑤ As an example, in case of conducting the program shift in the conditions of "EV=20" and "- 2 [EV] as the shutter speed" , the pulse shall be controlled as shown in the diagram above.

1 4 .The control for film advance / wind-up

By driving the film advance motor in the right and normal operation direction, the spool drives in the regular advancing direction in order to wind up the film.

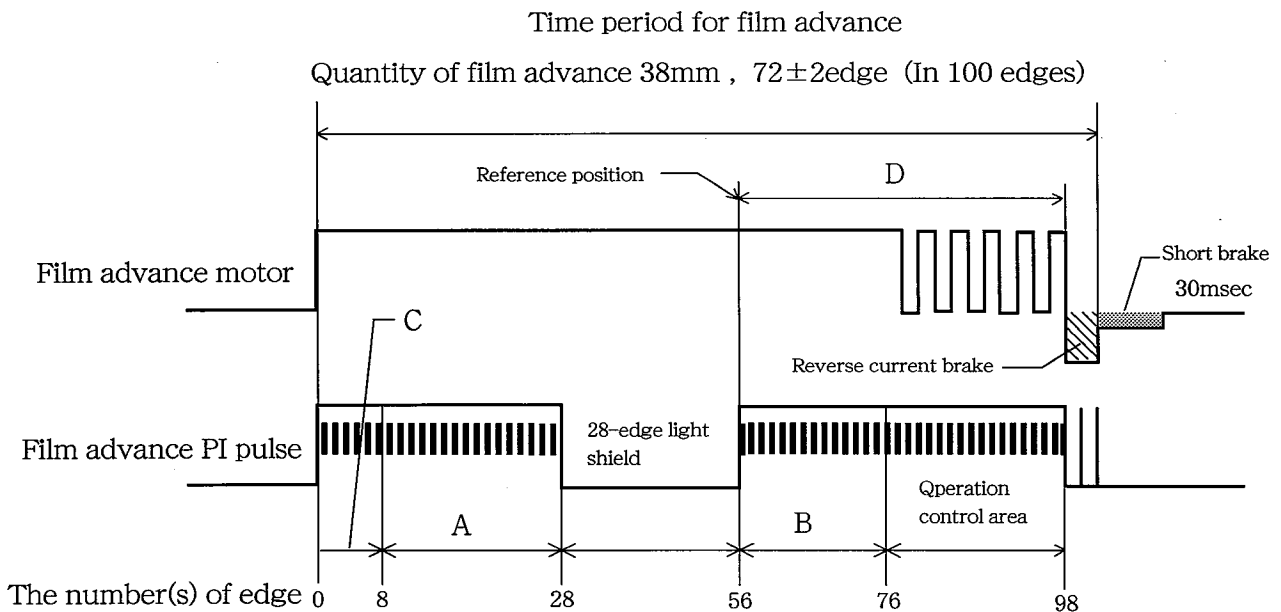
The quantity of film advance shall be controlled by monitoring the output from the film advance PI interlocking the move of sprocket.

*In response to 1-frame advance from a film, the 28-edge light shield and the 72-edge signal generate from the film advance PI.



Film advance detection unit

The control to stop a film



A : Speed monitoring realm A

B : Speed monitoring realm B

C : Tolerance for stop position error : The first 8-edge from the beginning of a loaded film is automatically winded.

D : The designated / duty drive finishes from the reference position to the 42nd edge position as shown in the figure above.

The reference position

The position just after completion of detecting the 28-edge light shield area shall be specified as the reference position.

The position to stop

The 44th edge position from the reference position including the over-run shall be specified as the stop position.

Tolerance : 44 ± 2 edges

Stop servo

In response to changeable film advance speed caused by the power supply voltage, in order to constantly maintain the speed to stop, the film advance speed shall be monitored.

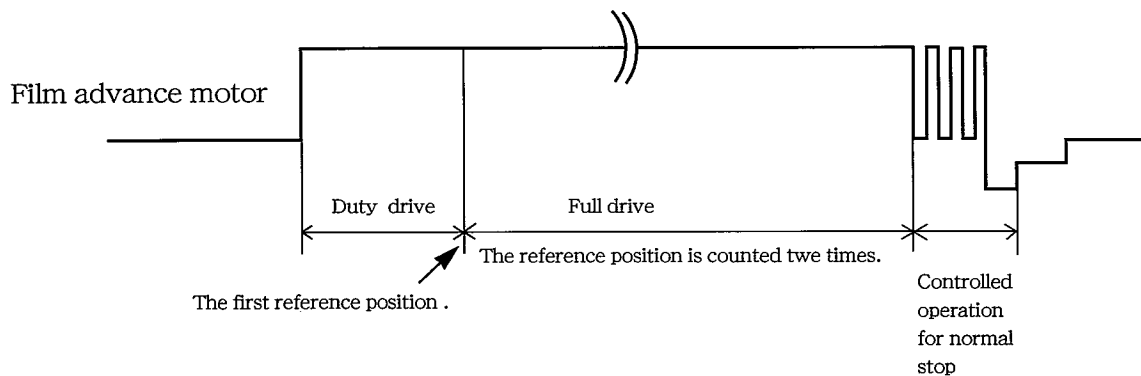
Then, the speed at the brake point shall be almost equally made by the operation control table in compliance with the monitored speed.

Besides, in order to respond to the dispersion in final speed, the operation time spent for reverse current brake shall be controlled in compliance with the stop servo speed.

Loading a film, film loading operation

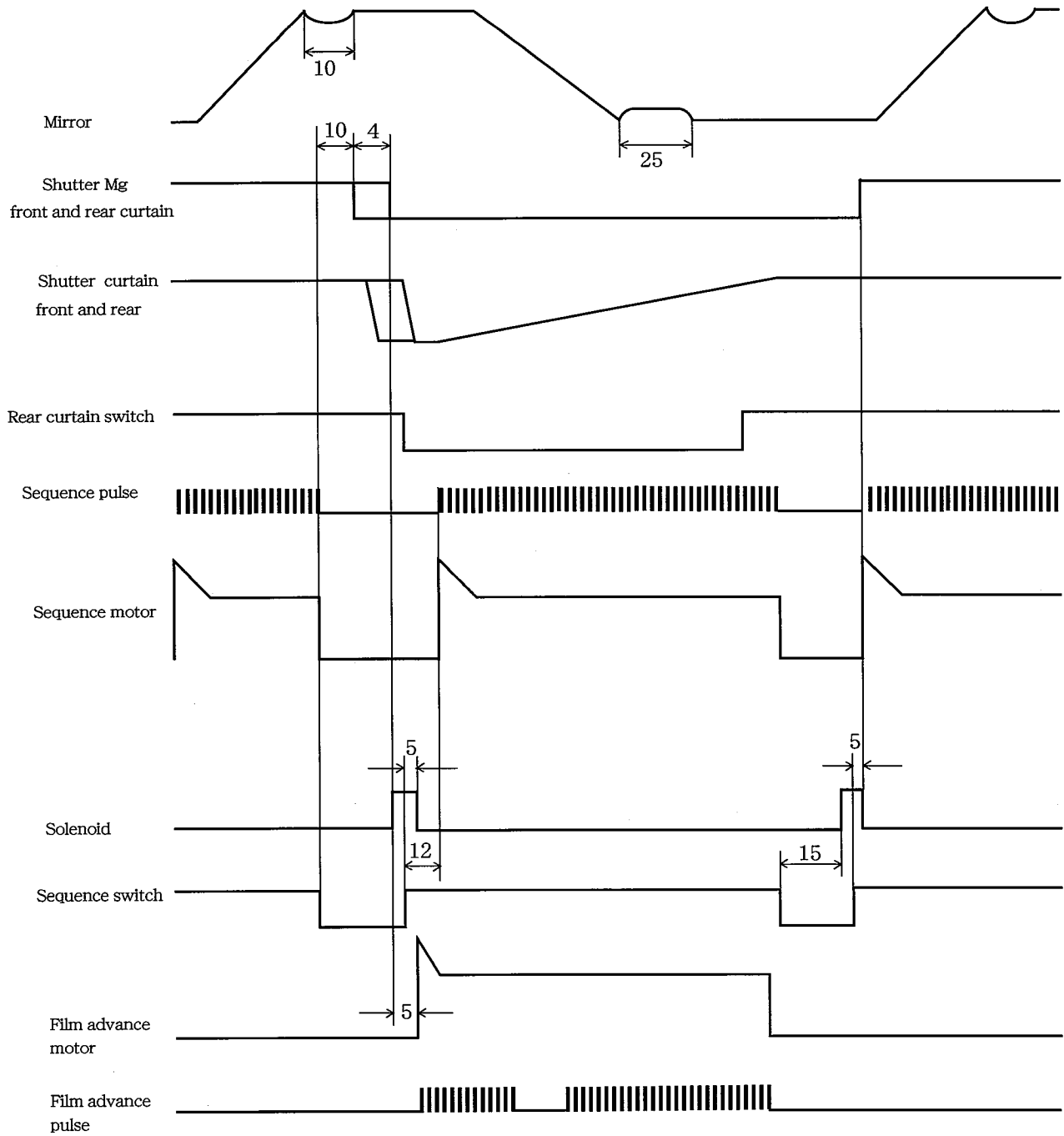
The film loading operation takes approximately 2.5 to 3.5 frames.

The camera automatically starts to count from the 3rd frame stop position as the 1st ex.

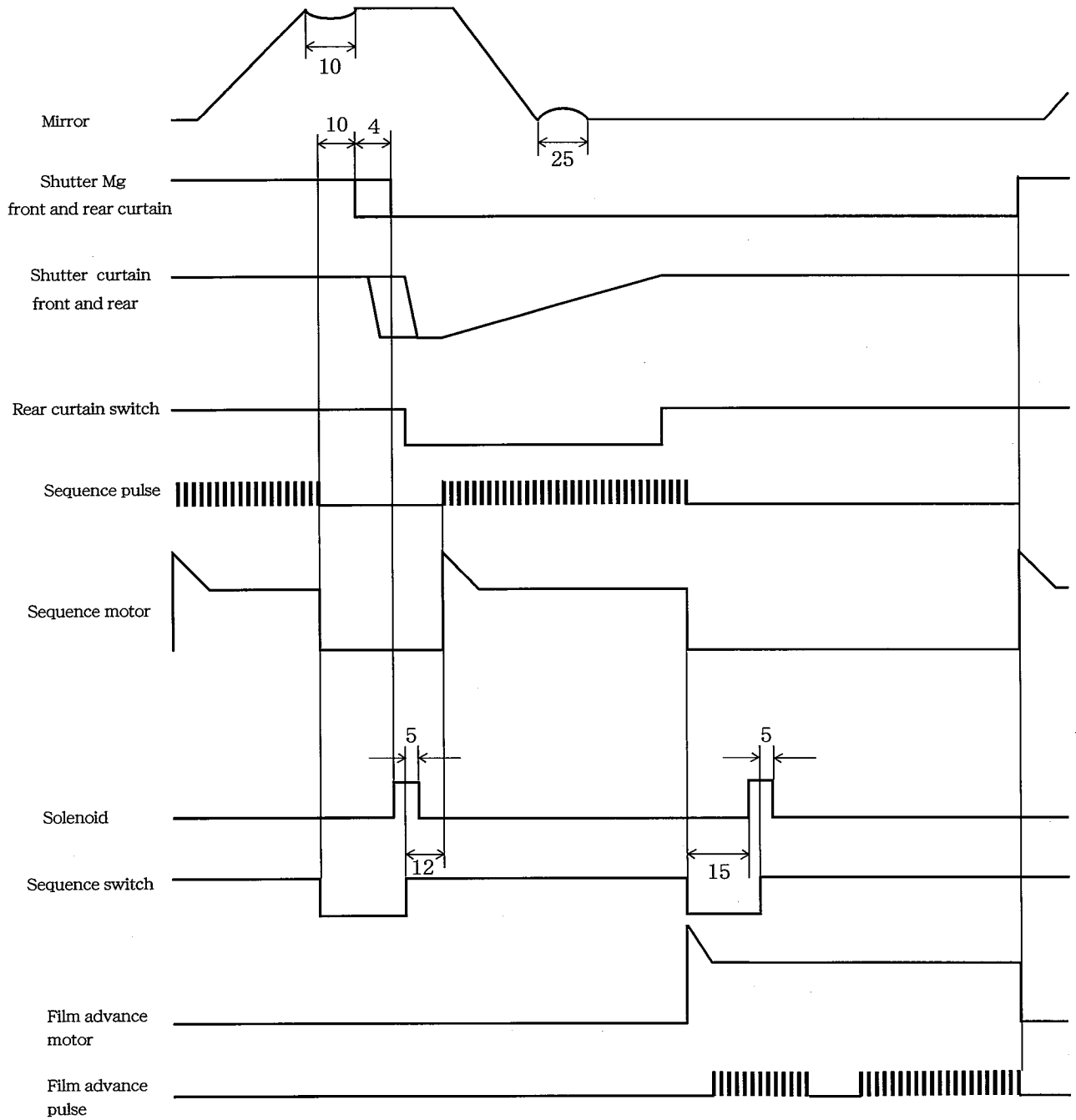


The figure of sequence

Parallel drive



Serial drive



1 5 .Sequence error

Sequence error	Condition(s) to cause the error
Mirror-up time-out	Even after 110 (± 10) m sec. from driving of the sequence motor, the sequence switch can not be turned on.
Mirror-down time-out	Even after 400 (± 20) m sec. from turning on the sequence motor after the shutter curtain operation, the sequence switch can not be turned on.
Front curtain release time-out	After canceling the close mode of shutter front curtain magnets, it takes more than 8 m sec. to turn on the contact X.
Troubled switch for shutter rear curtain switch	Before driving the sequence motor in the mirror-up mode, the shutter rear curtain switch is turned on.
Malfunction on sequence switch	In the condition that the solenoid is turned on once or twice, the sequence switch can not be switched from ON-mode to OFF-mode.
Troubled sequence switch	Before driving the sequence motor, the sequence switch is turned on.
Troubled sync. switch	Before the mirror-up operation, the sync. switch is turned on.
Preview time-out	Even after 500 m sec. from turning on the mirror latch solenoid, the mirror latch switch can not be turned on in the preview operation mode.
Sequence error during preview	Any sequence error(s) other than on the mirror latch switch happens in the preview operation mode.
Malfunction on shutter rear curtain switch	After canceling the close mode of shutter rear curtain magnets, it takes more than 12 m sec. to turn on the shutter rearcurtain switch.
Aperture control err	In case of more than 13-pulse difference(s) between the aperture control target pulse and the generation pulse. In this case, there is no recovery mode although "Err" is displayed.

1 5 . The operational differences for aperture mode on between F5 and F100

For regular set-up			
condition/mode		F5	F100
Built-in CPU lens	Sub command dial/set-up	The aperture ring shall be set to minimum.	The aperture ring shall be set to minimum.
	display	1/3 Step	1/3 Step
	Aperture ring / set-up	Possible	Impossible ; Locked shutter release mode
	display	F-- Possible to check the aperture value through the direct-vision window	F E E No presence of direct-vision window
non- CPU lens	Command dial / set-up	Impossible	Impossible
	Aperture ring / set-up	Possible	Possible
	display	F-- Possible to check the aperture value through the direct-vision window	F-- No presence of direct-vision window

For set-up in the unavailable command dial under the custom-setting mode			
condition/mode		F5	F100
Built-in CPU lens	Aperture ring / set-up	Possible	Possible
	display	F-- Possible to check the aperture value through the direct-vision window	1 Step
non- CPU lens	Aperture ring / set-up	Possible	Possible
	display	F-- Possible to check the aperture value through the direct-vision window	F-- No presence of direct-vision window

Disassembly

1. Exterior	D 1
Grip rubber, rubber on the rewind side, cover base plate	D 1
Bottom cover	D 2
Top cover	D 2
2. Separation of the front body from the rear body	D 3
Connector / solder bridge	D 3
Separation of the front body from the rear body	D 4
3. Rear body	D 4
Rear C/D unit	D 4
Remote terminal	D 5
DC/DC circuit board	D 5
Sequence unit, spool	D 6 ~ D 8
Shutter unit	D 8
Bottom base plate	D 9
Film advance unit	D 9
Film advance detection unit, sprocket	D 1 0
Rear cover open/close key	D 1 0
DX/DB F P C	D 1 1
Rewind unit	D 1 2
Power FPC	D 1 2
Grip	D 1 3
Film detection switch unit	D 1 4
Other parts	D 1 4
4. Front body	D 1 5
Diopter adjuster unit	D 1 5
Main printed circuit board	D 1 5
Light baffle plate	D 1 6
Prism box	D 1 7
Horizontal AF lever, AF unit	D 1 8
Bayonet mount, apron	D 1 8
Attachable lens switch unit, AF/M switch circuit board	D 1 9
Lens release button unit, lens release base plate	D 1 9
AF driving unit	D 2 0
Preview unit	D 2 0 ~ D 2 1
Mirror box	D 2 2

- Others D 2 2
- I base plate, L base plate D 2 3
- 5. Top cover D 2 3
 - Front C/D unit D 2 3
 - Release switch unit D 2 4
 - Front C/DFPC unit D 2 4
 - Top cover FPC / film advance mode dial / triple operation buttons D 2 5
 - Others D 2 6
- 6. Rear cover D 2 6

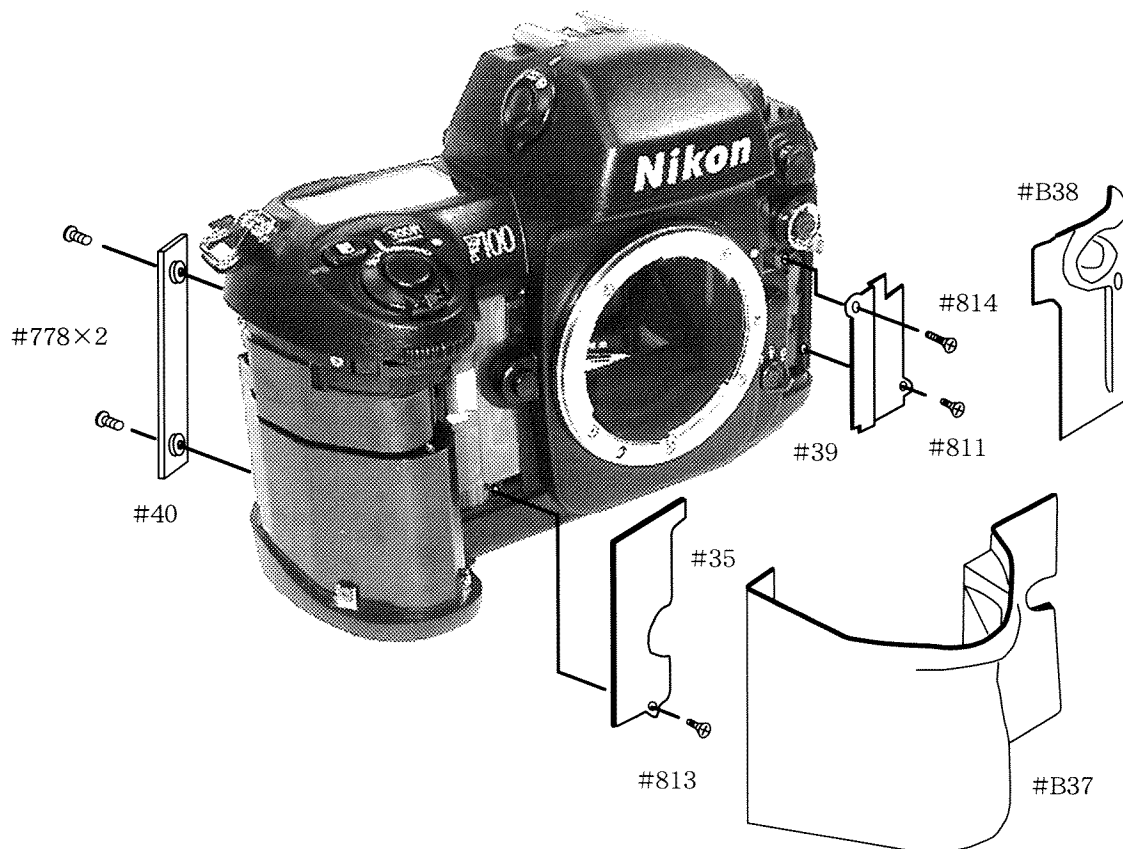
Disassembly • Assembly • Adjustment

- Note :**
- ① Be sure to remove battery before assembling.
 - ② When disassembling, pay attention to the wire arrangement and mounting positions and types of screw to be removed.
 - ③ Be sure you are grounded when holding electric parts because static electricity exerts serious adverse effects on IC's.

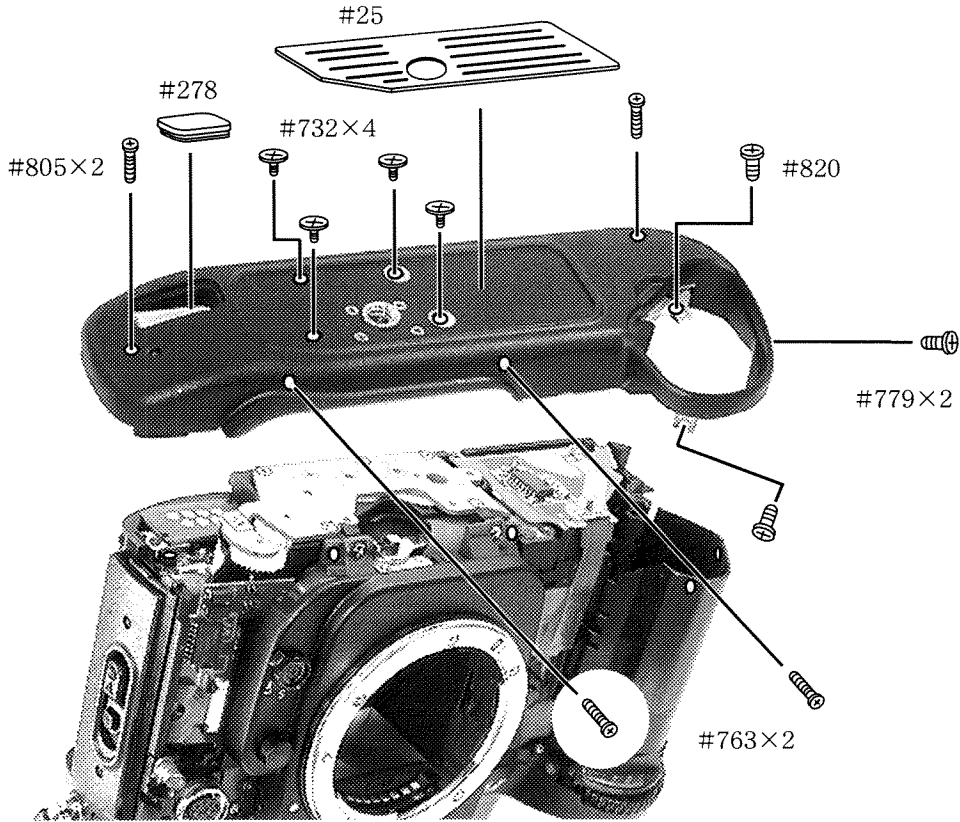
Disassembly

1. Exterior

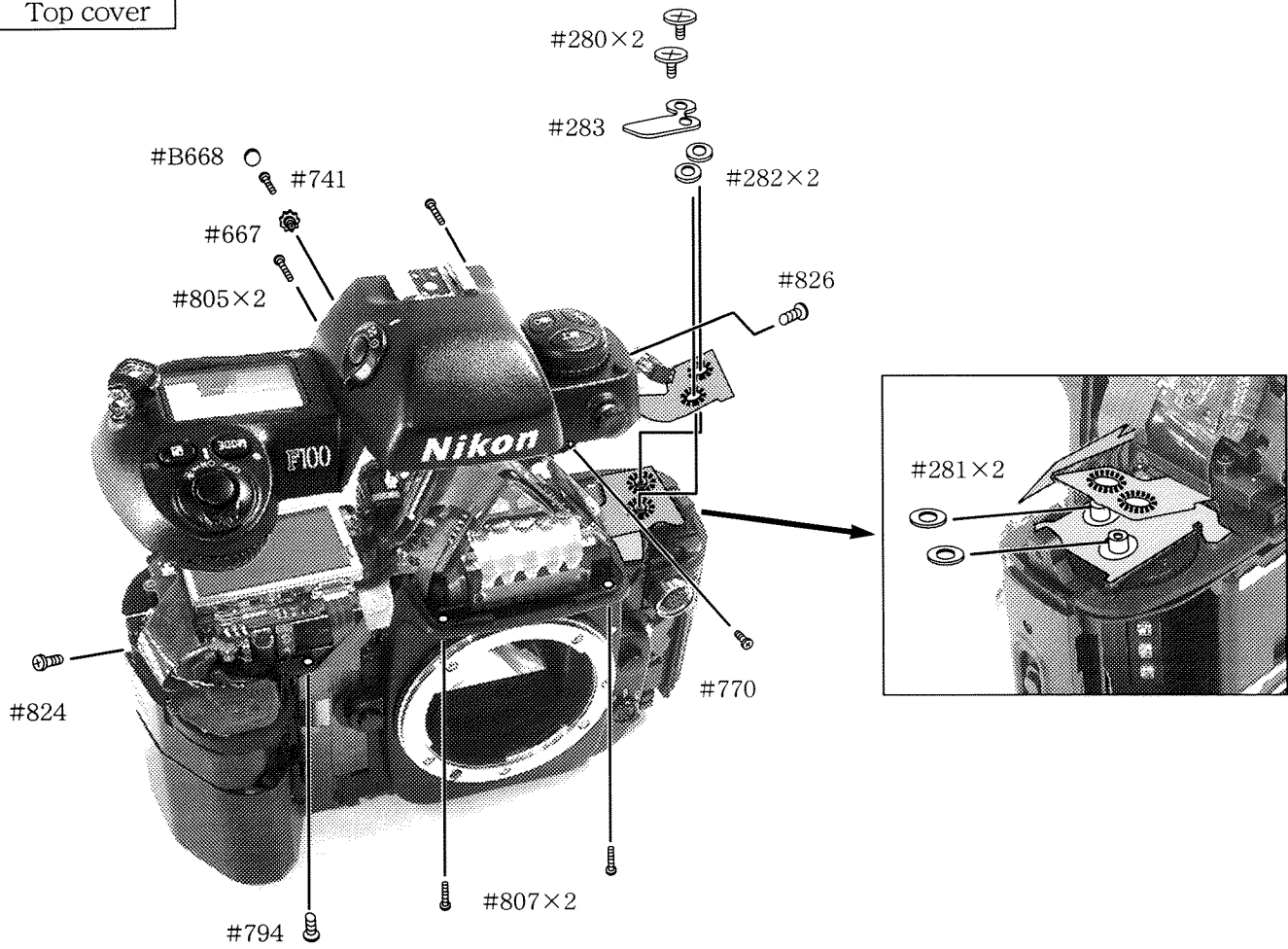
Grip rubber, rubber on the rewind side, cover base plate



Bottom cover

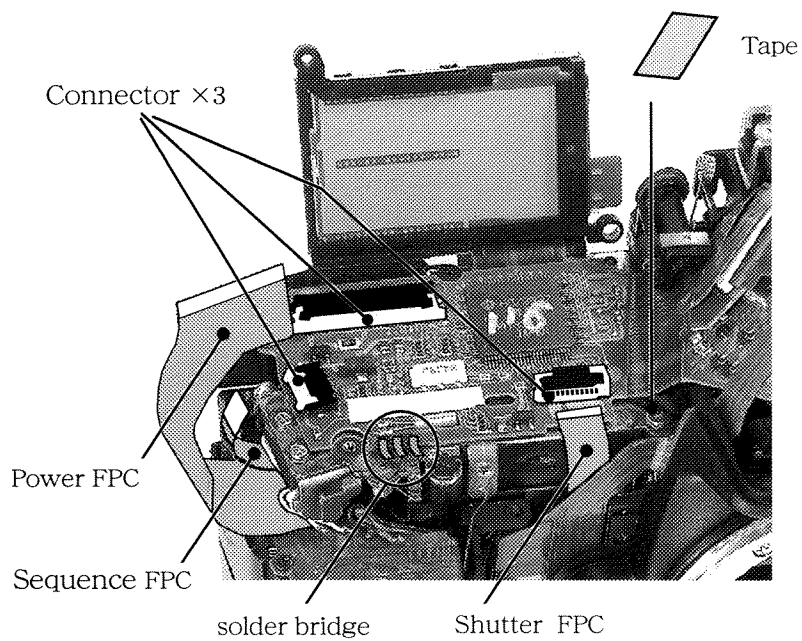
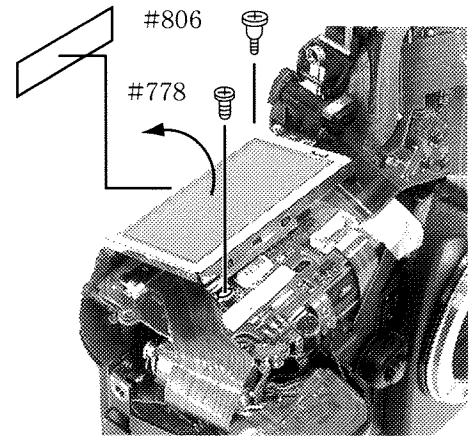
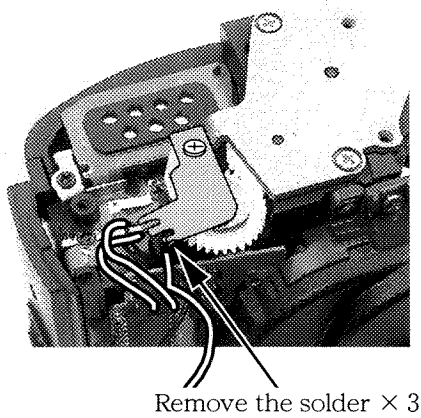
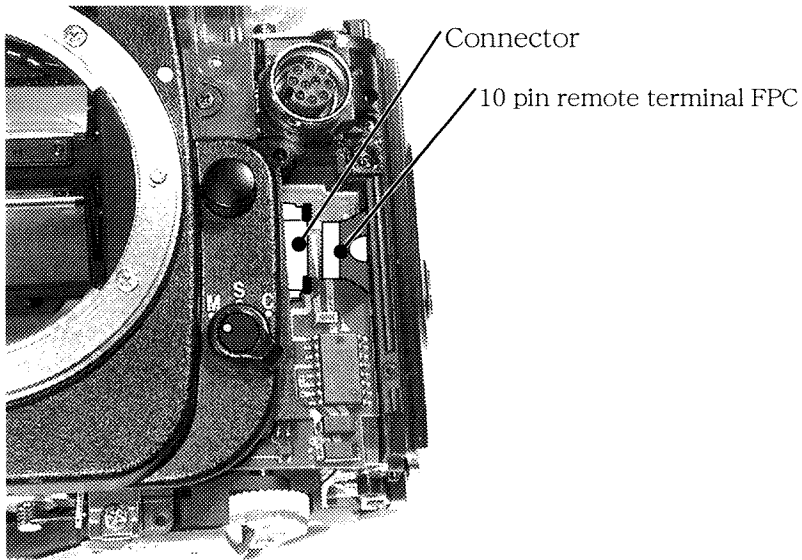


Top cover

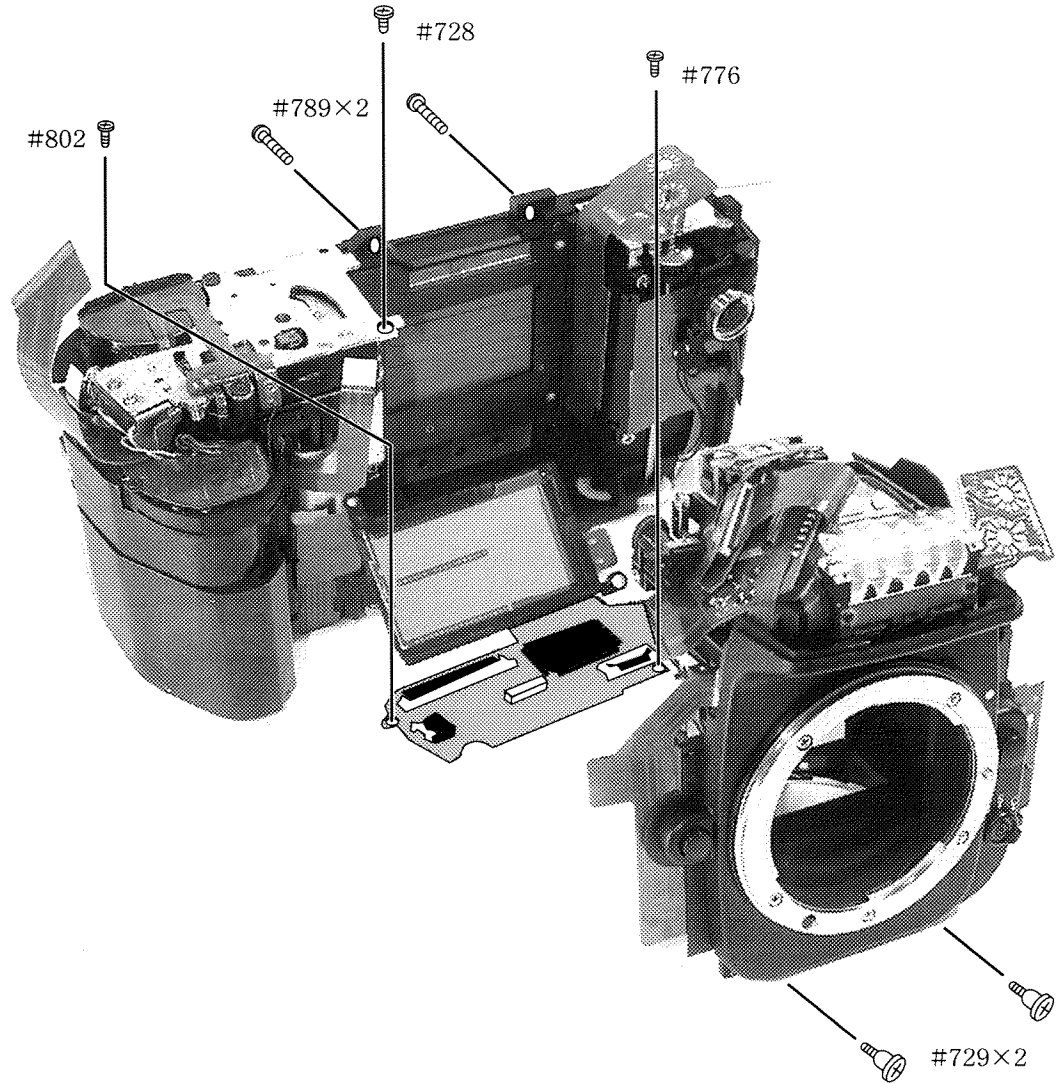


2. Separation of the front body from the rear body

Connector / solder bridge

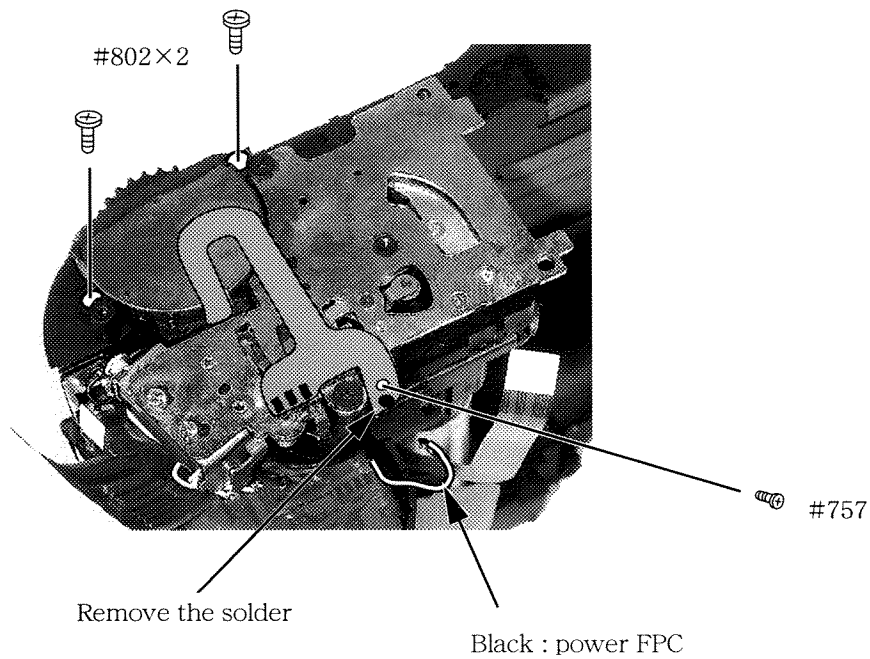


Separation of the front body from the rear body

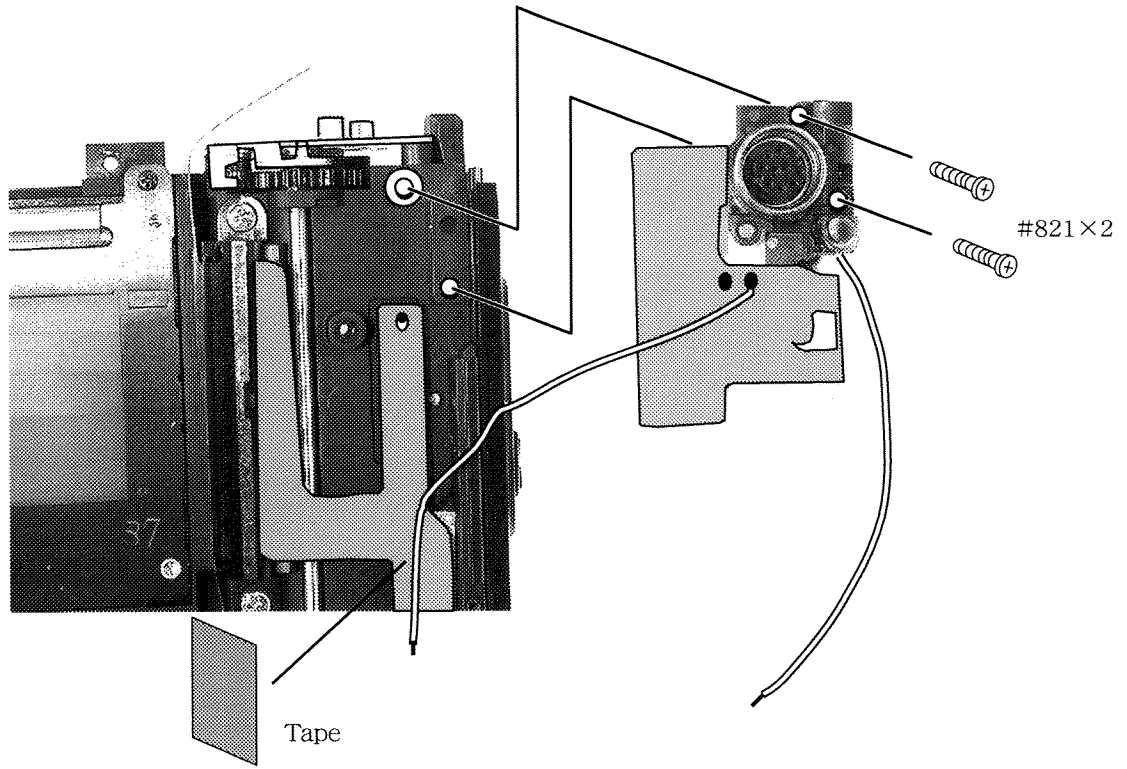


3. Rear body

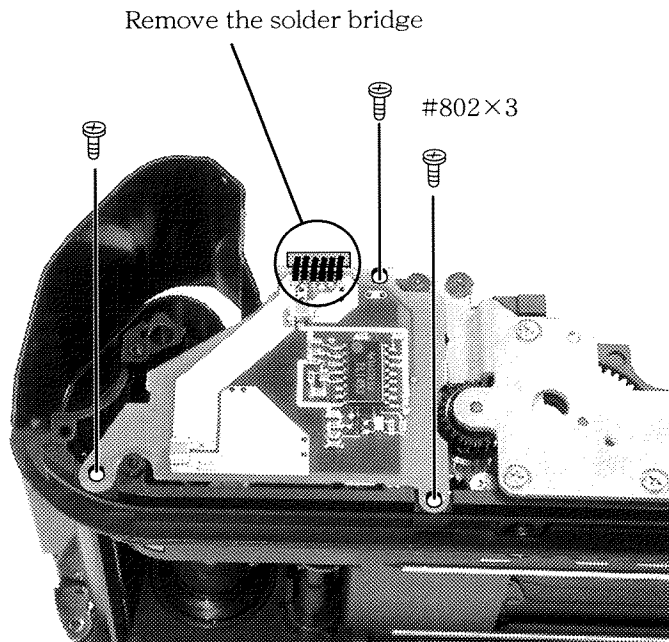
Rear C/D unit



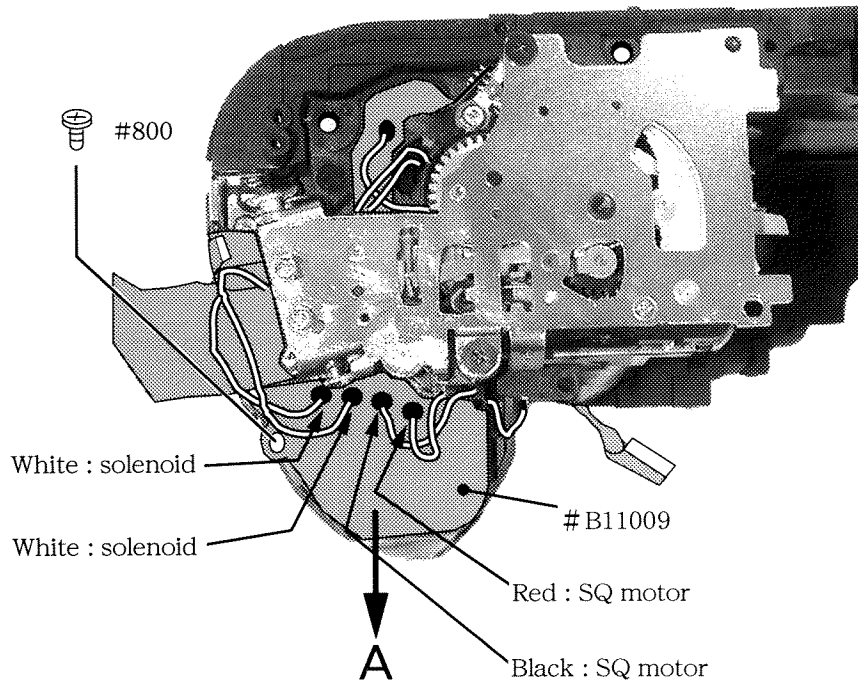
Remote terminal



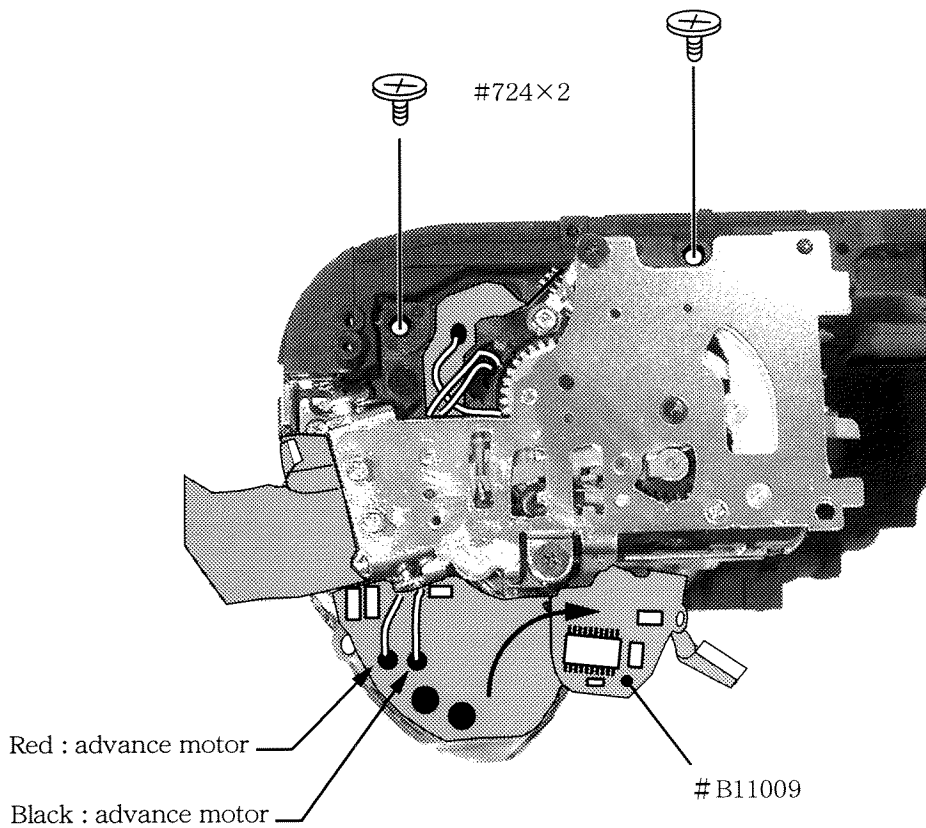
DC/DC circuit board



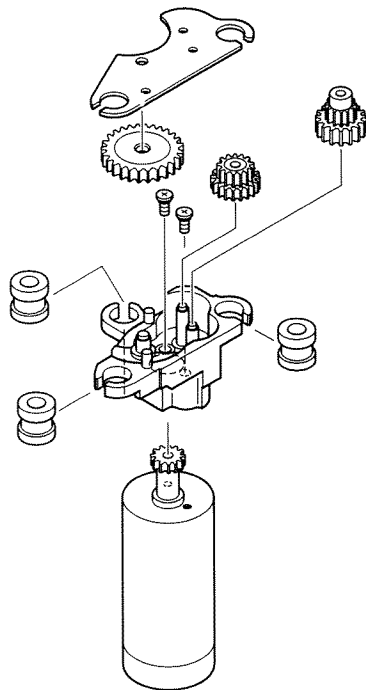
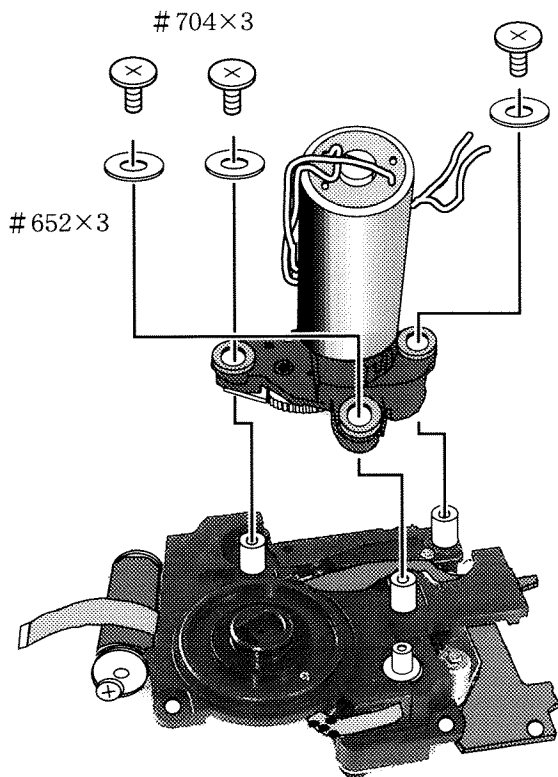
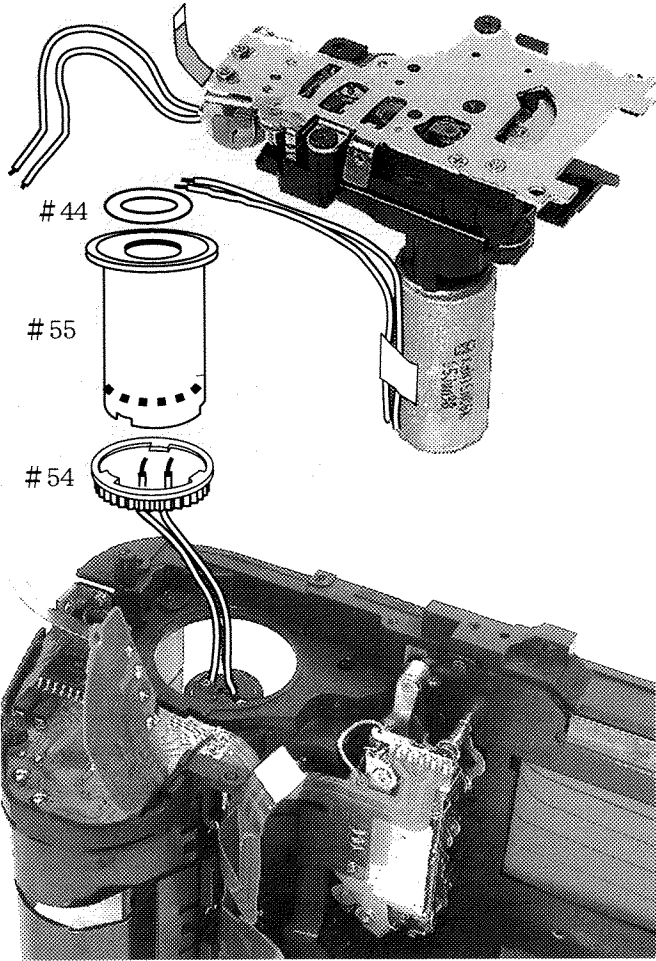
Sequence unit, spool

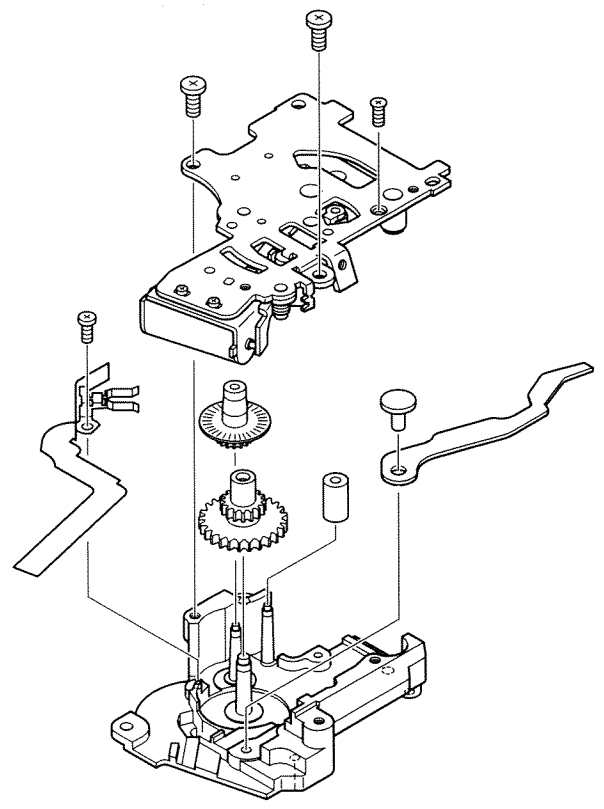
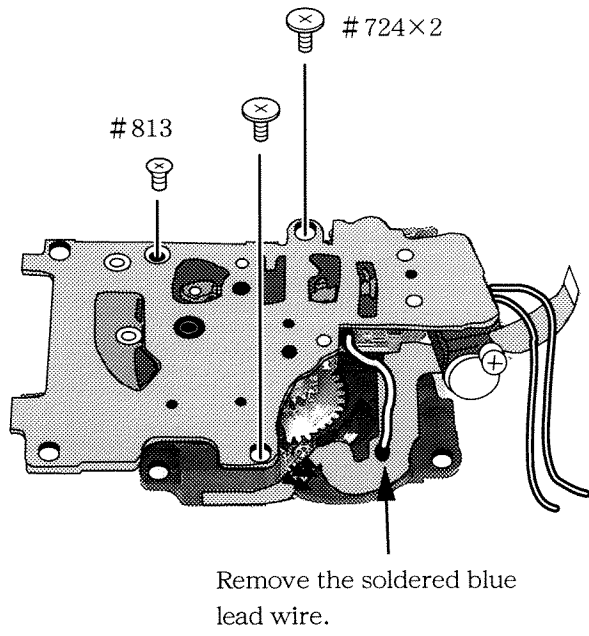


- Remove the screw #800.
- Slightly pull the power FPC #B11009 in the arrow direction and then remove four solder bridges.

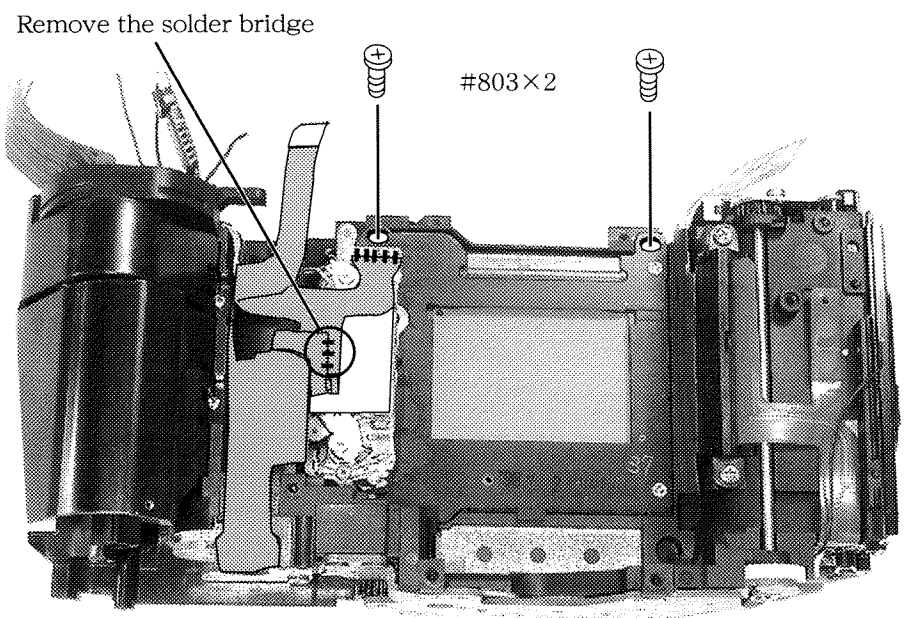


- Raise up the power FPC #B11009 in the arrow direction.
- Remove the two solder .

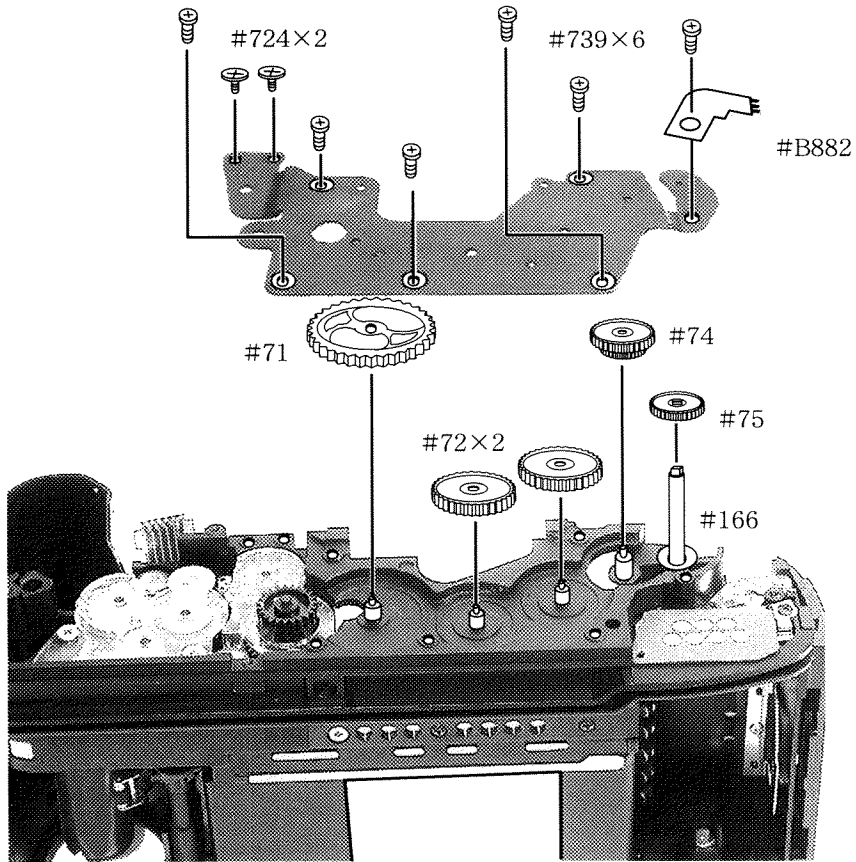




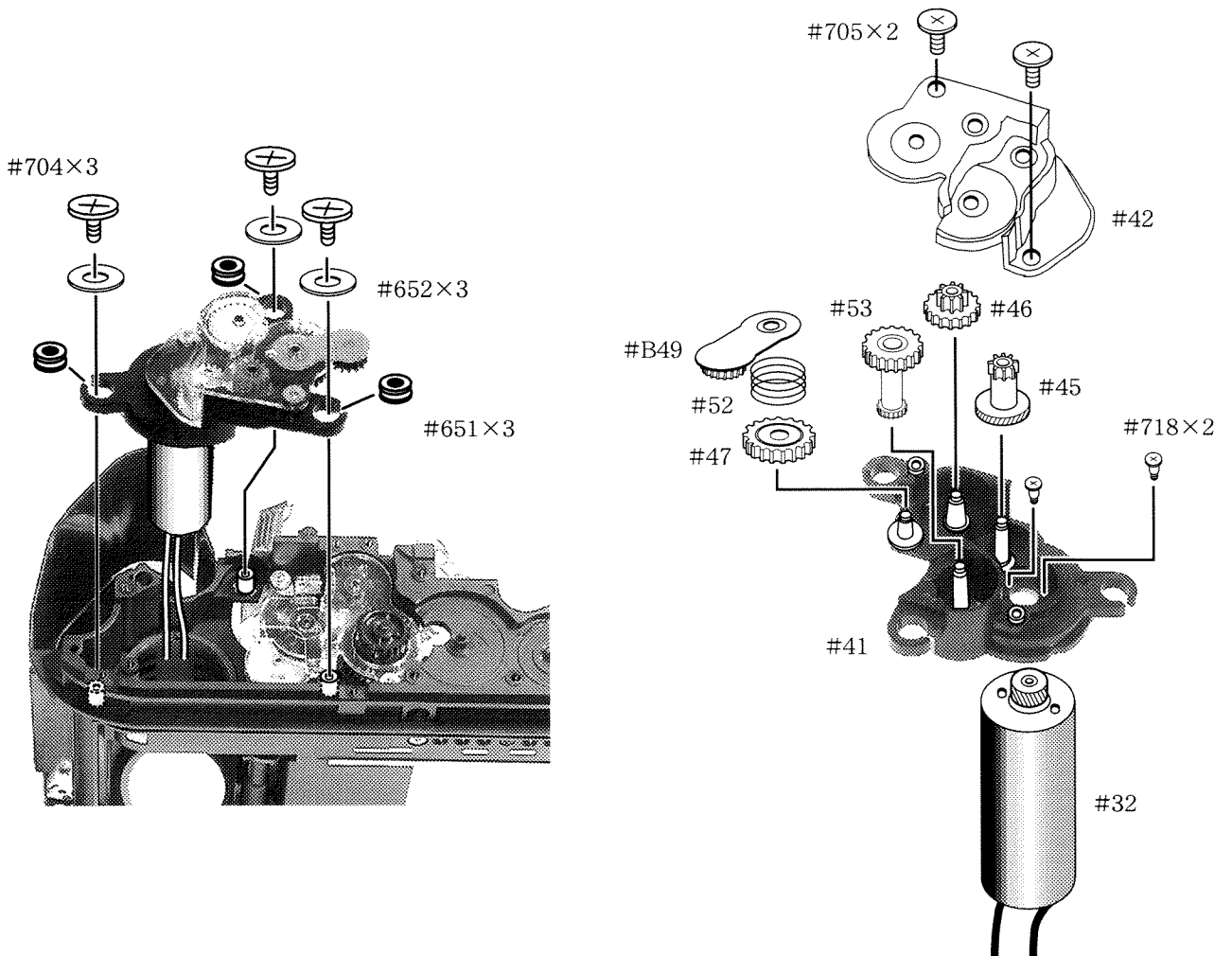
Shutter unit



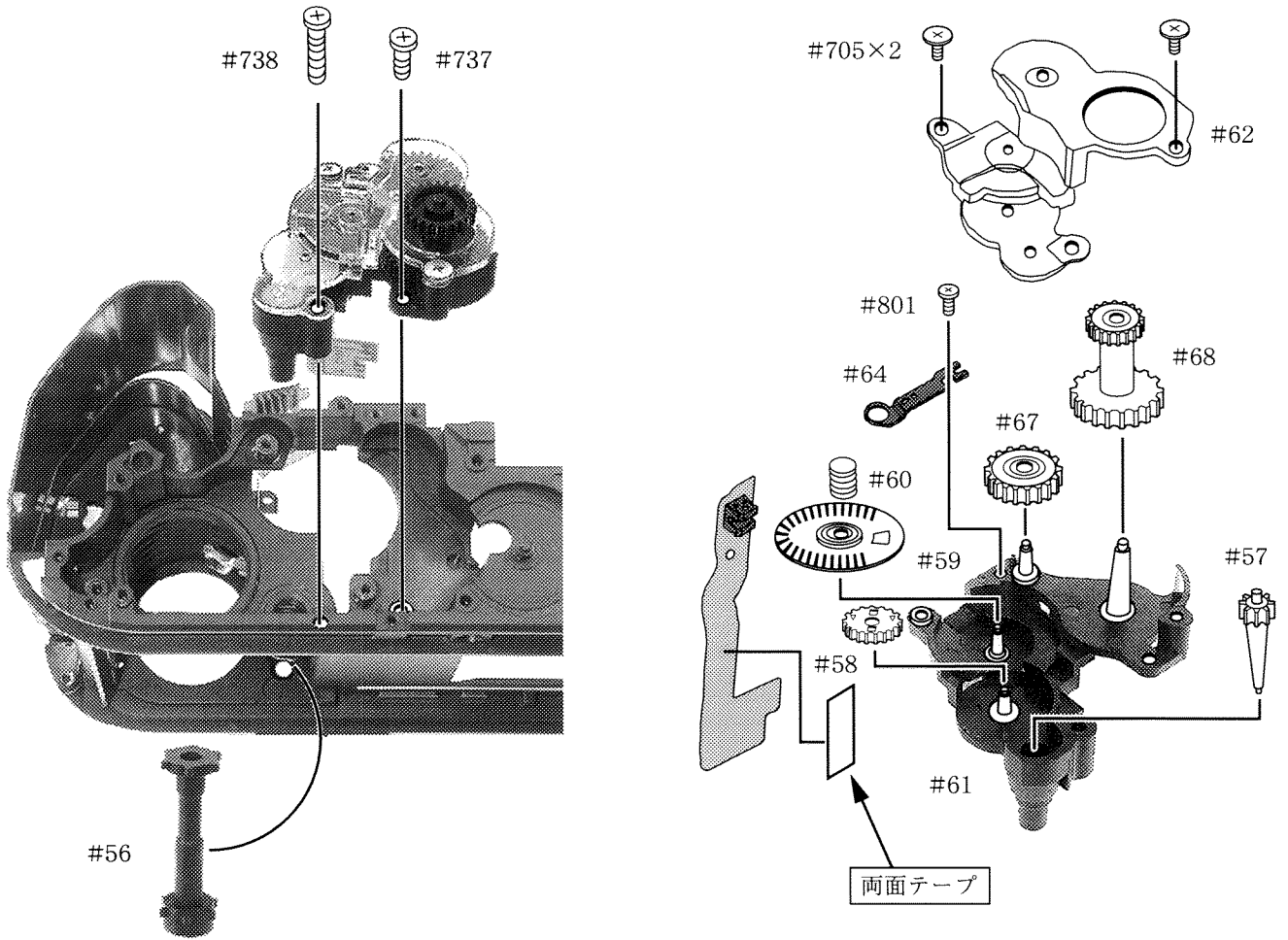
Bottom base plate



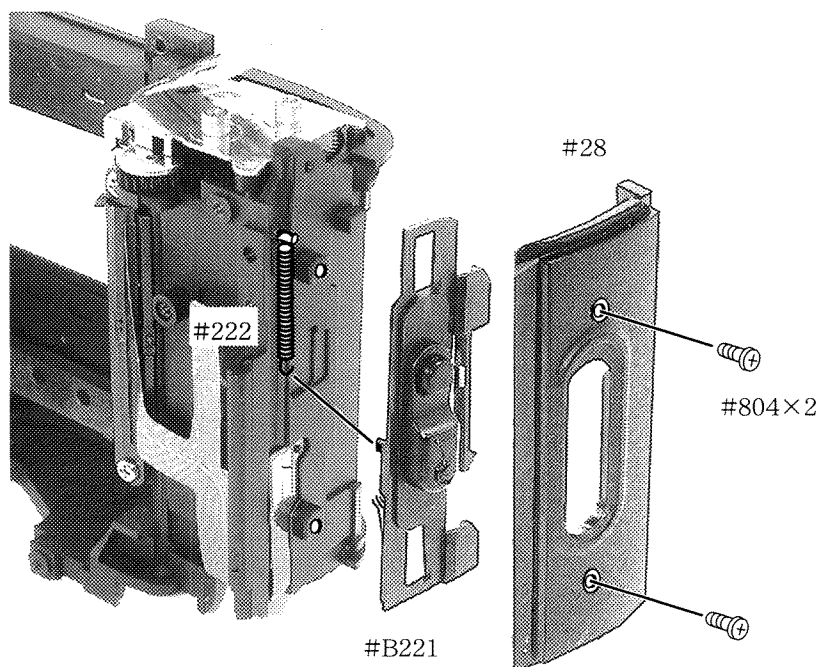
Film advance unit



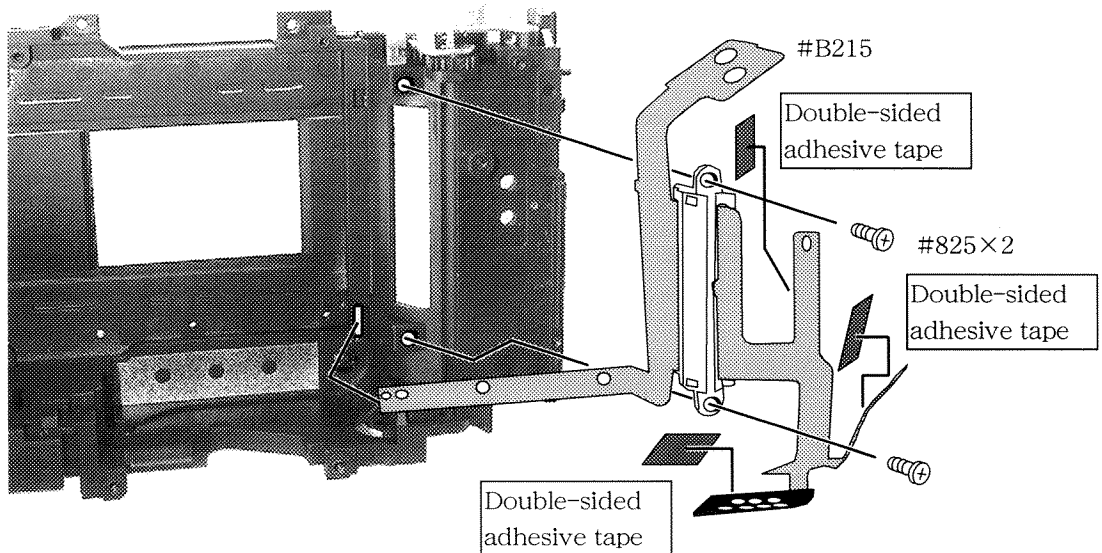
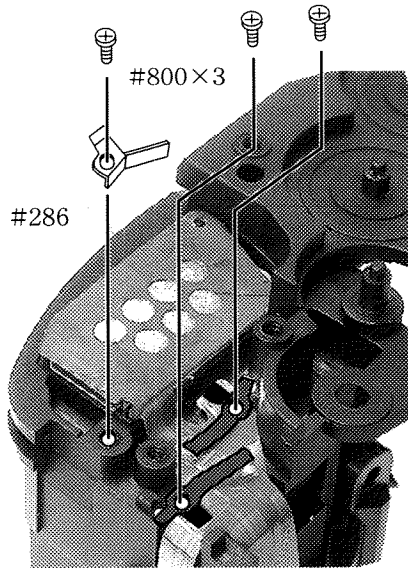
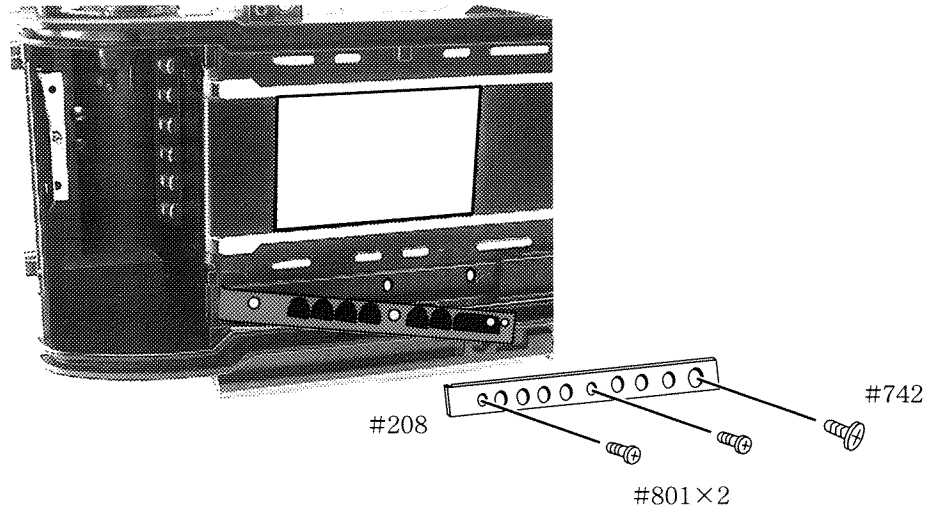
Film advance detection unit, sprocket



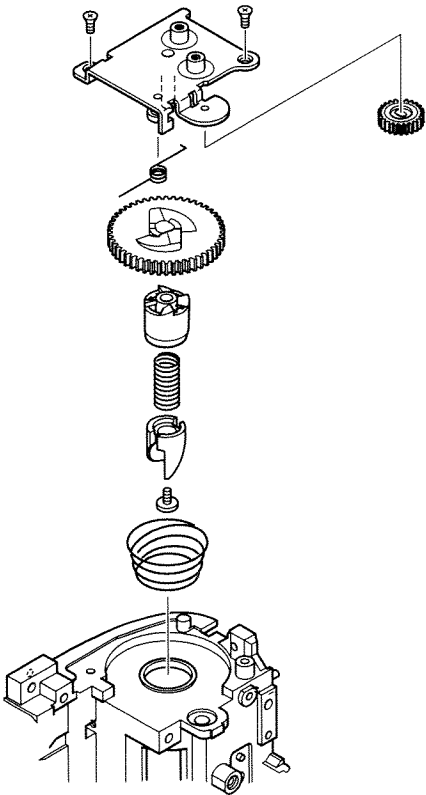
Rear cover open/close key



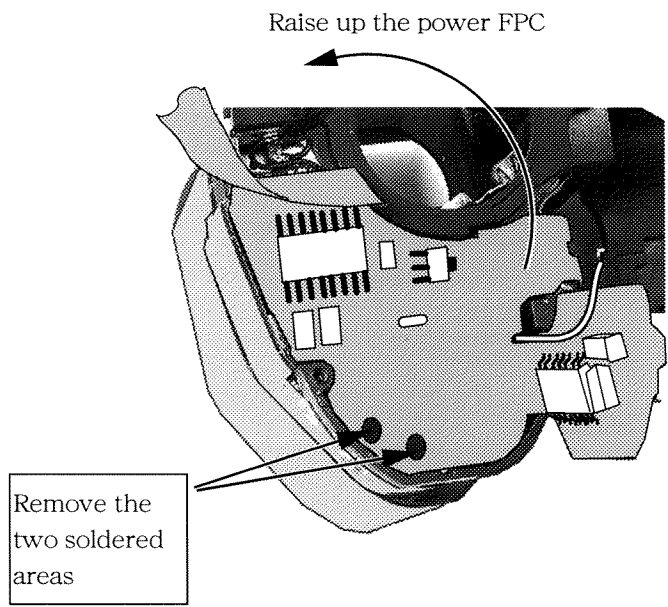
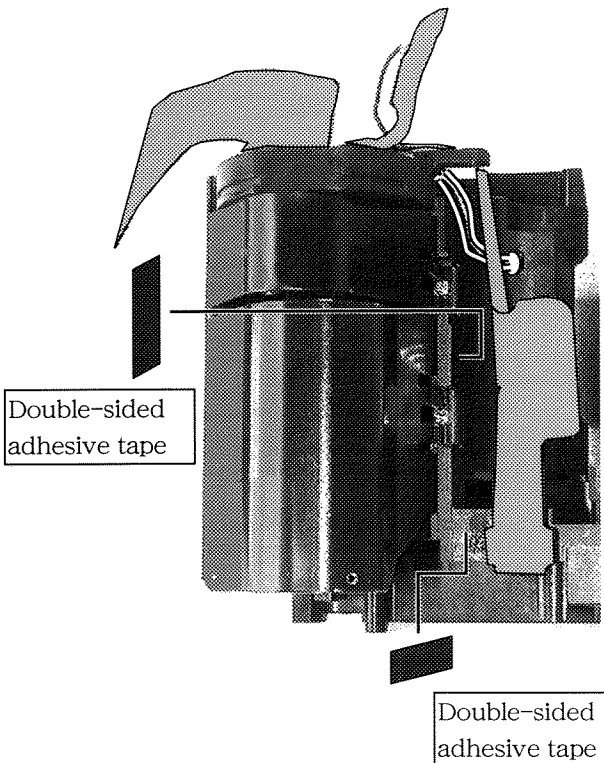
DX/DB F P C

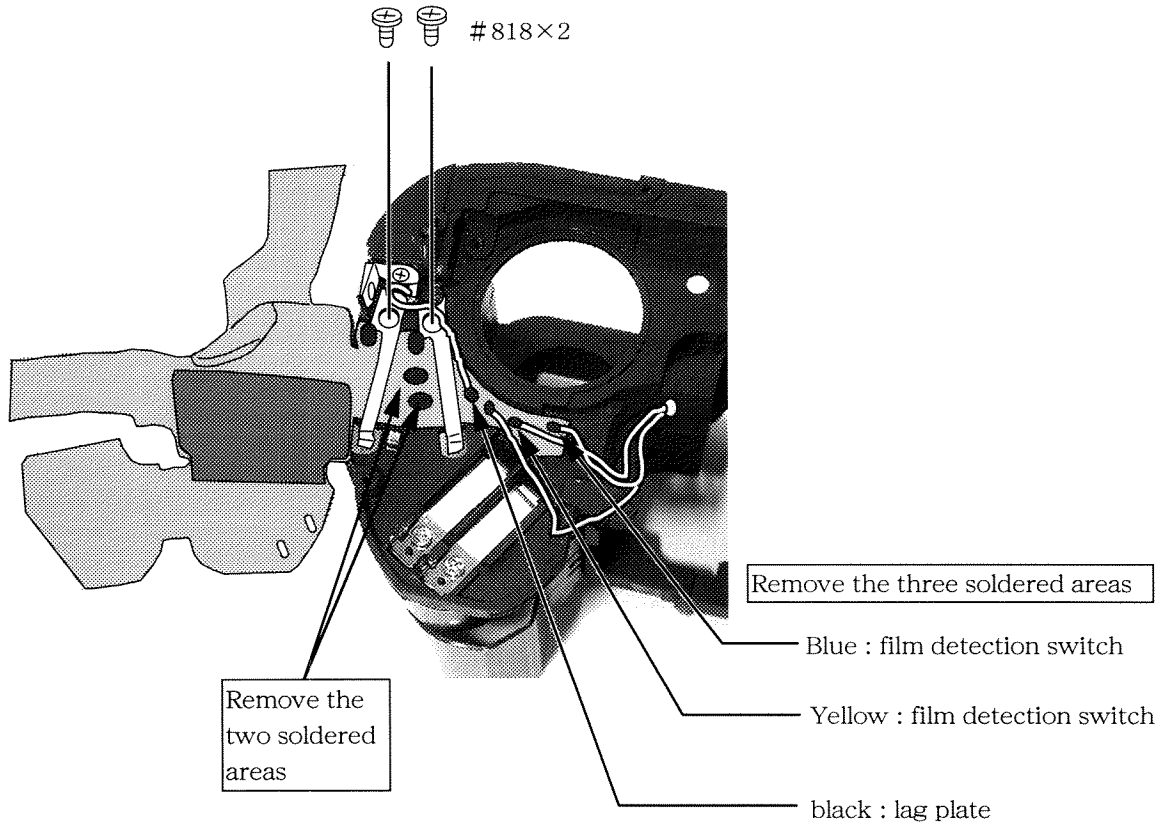


Rewind unit

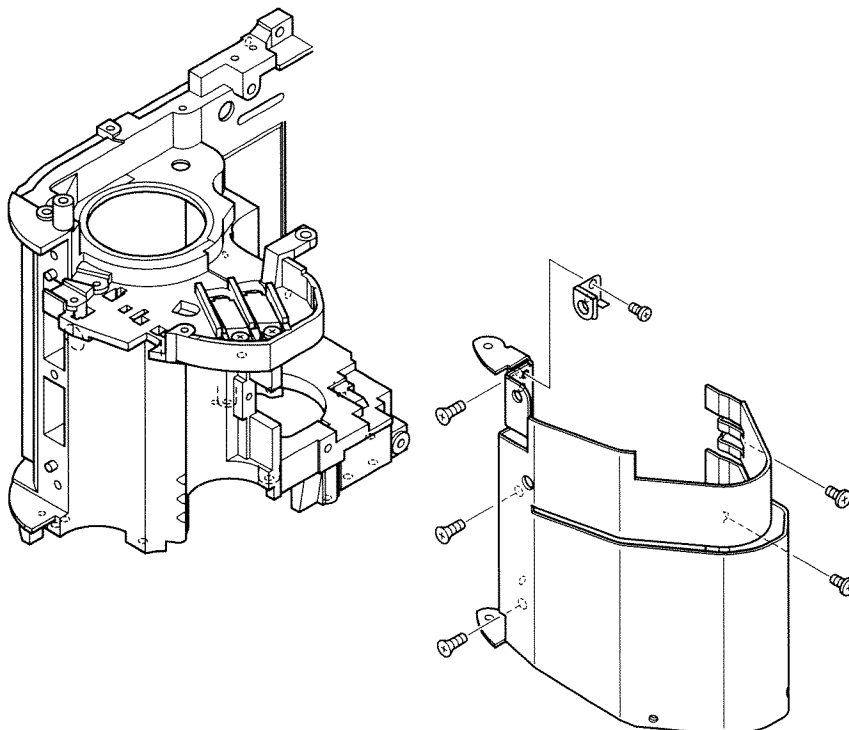


Power FPC

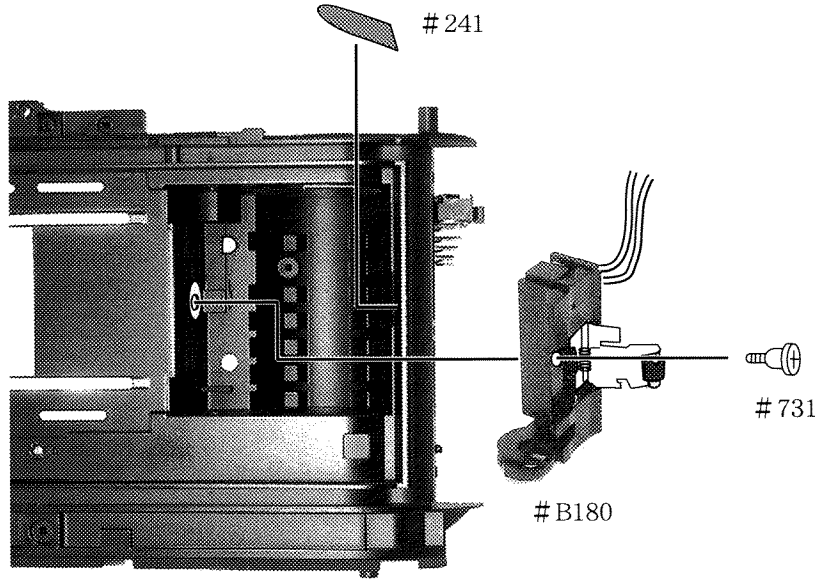




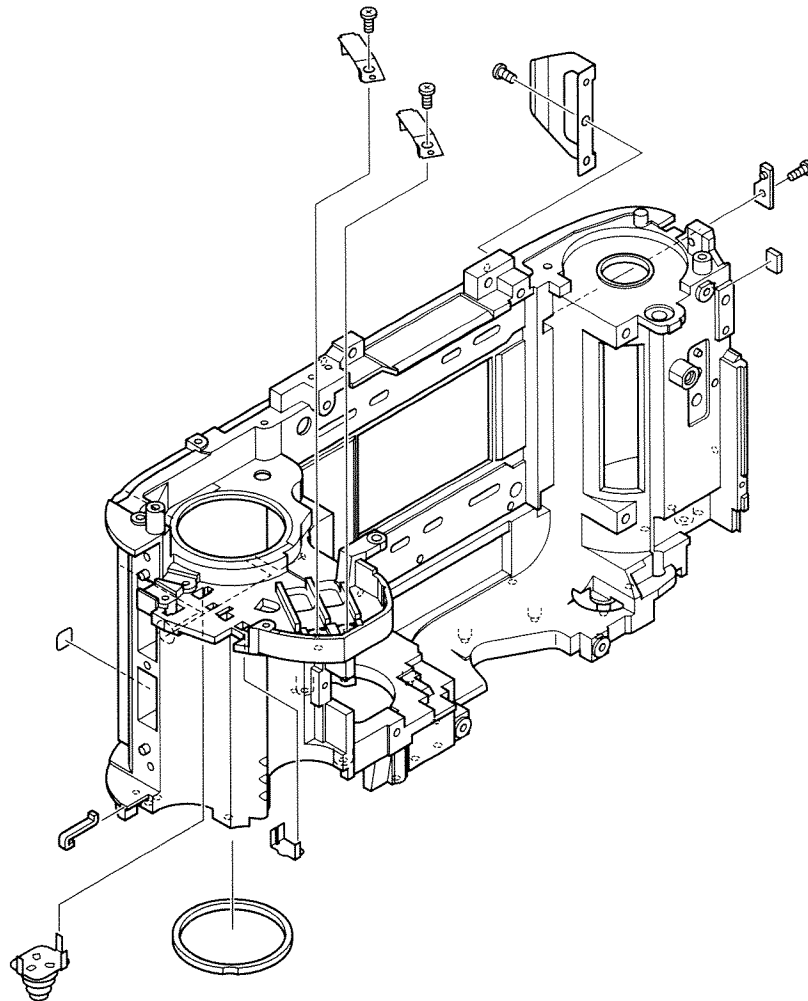
Grip



Film detection switch unit

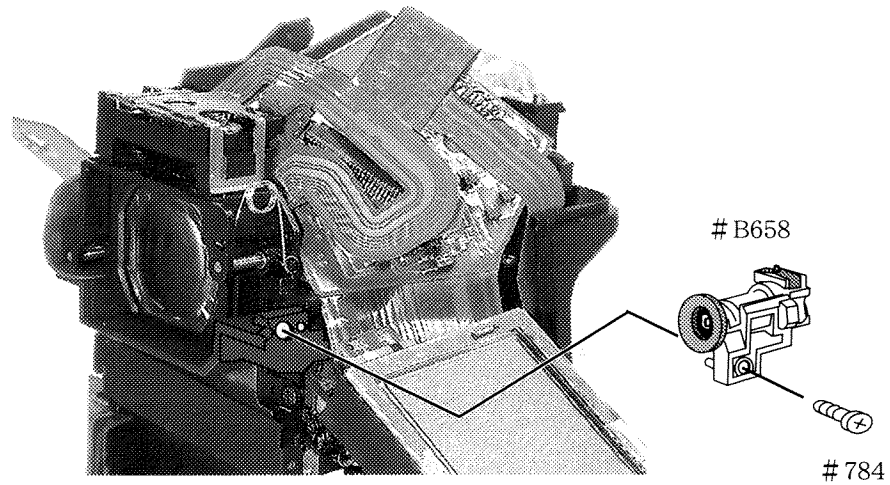


Other parts



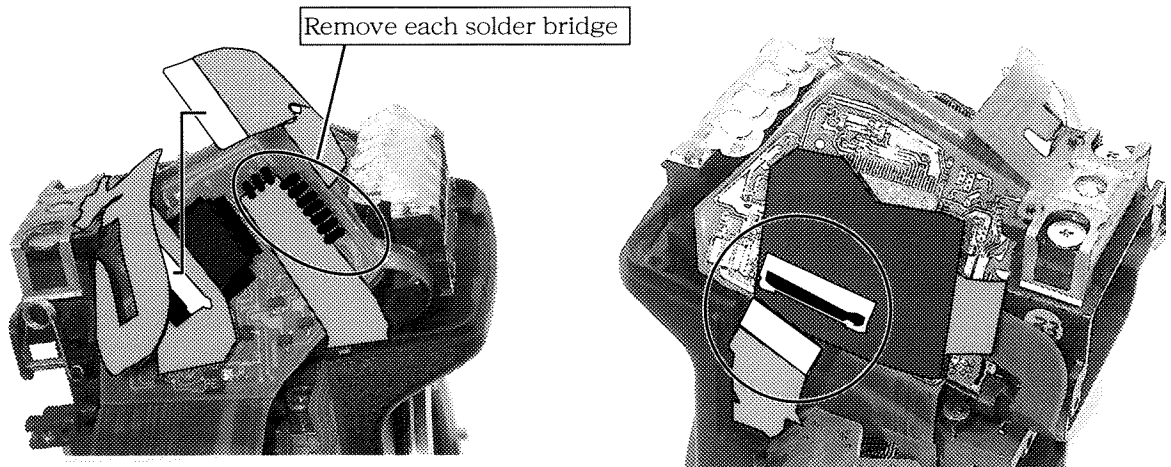
4. Front body

Diopter adjuster unit

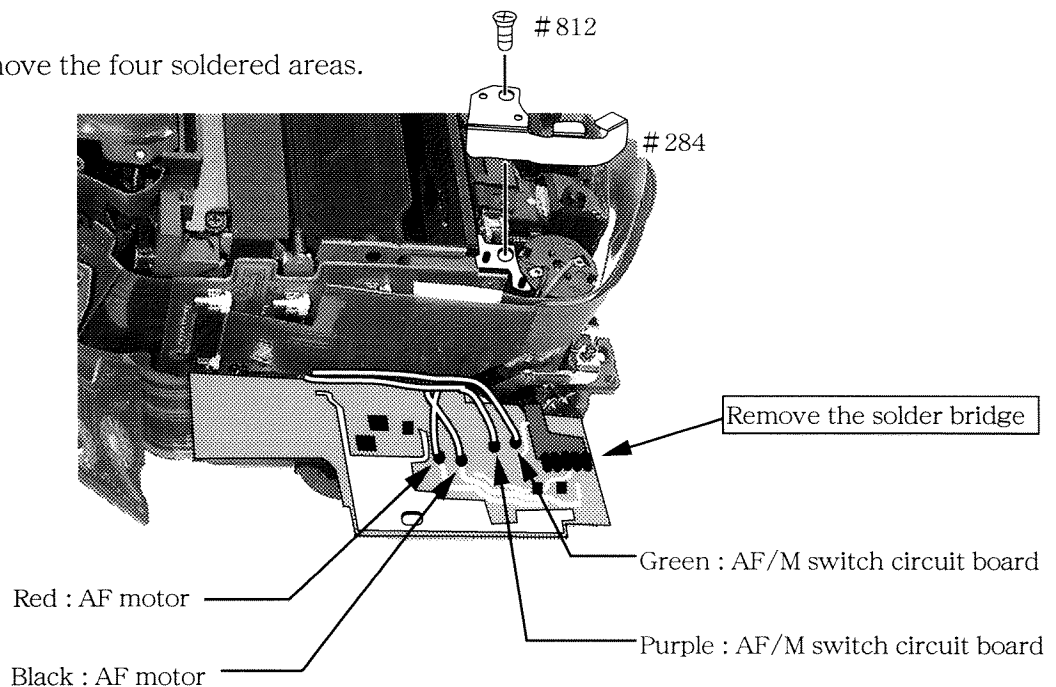


Main printed circuit board

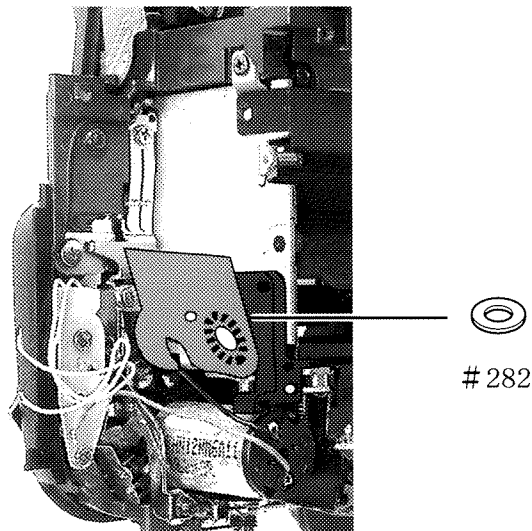
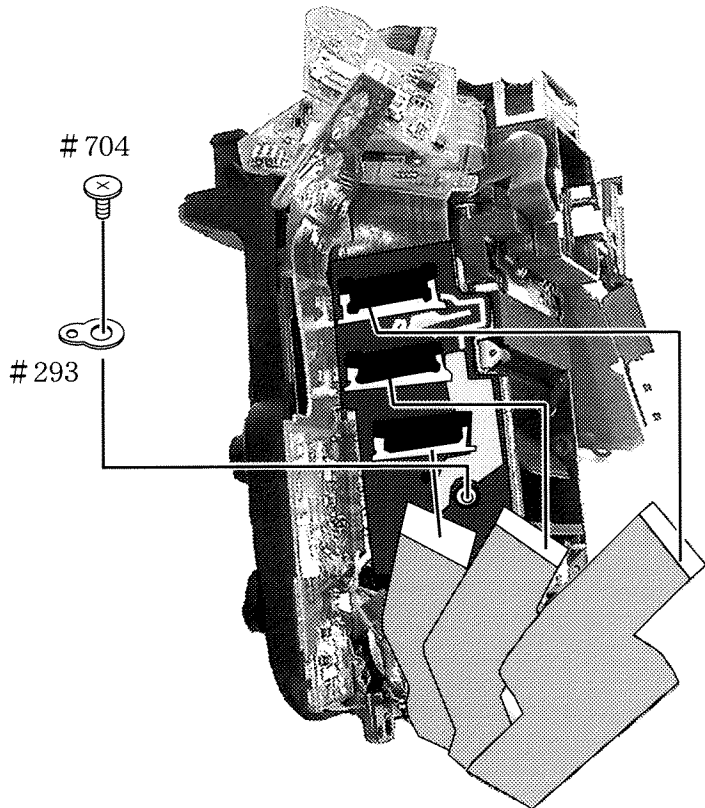
- Remove the two connectors.



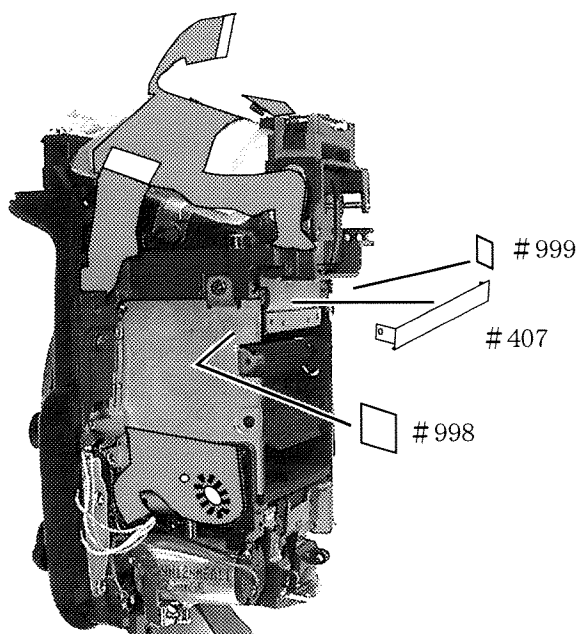
- Remove the four soldered areas.



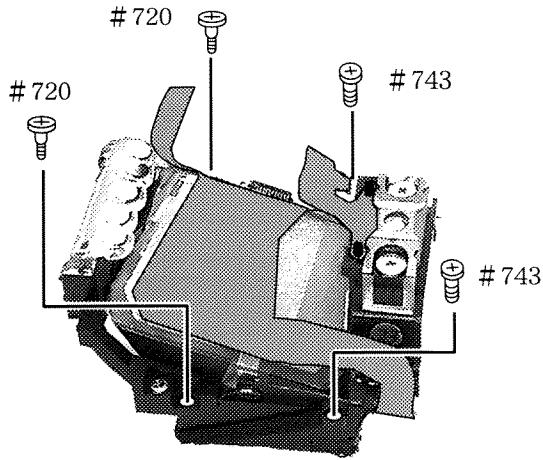
- Remove the three connectors.



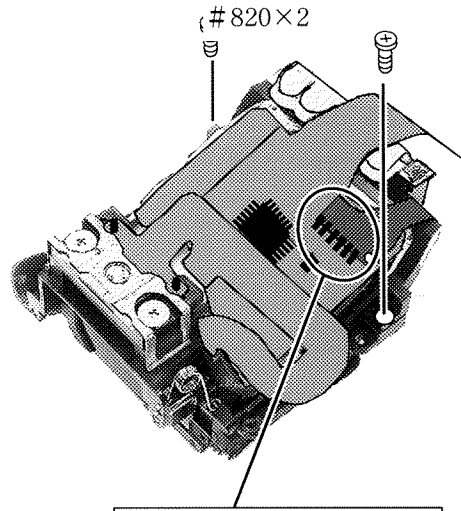
Light baffle plate



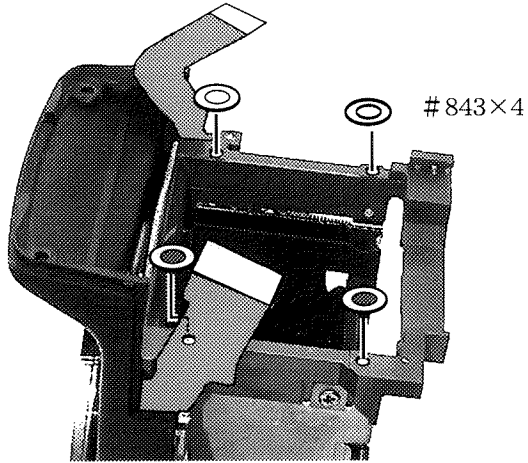
Prism box



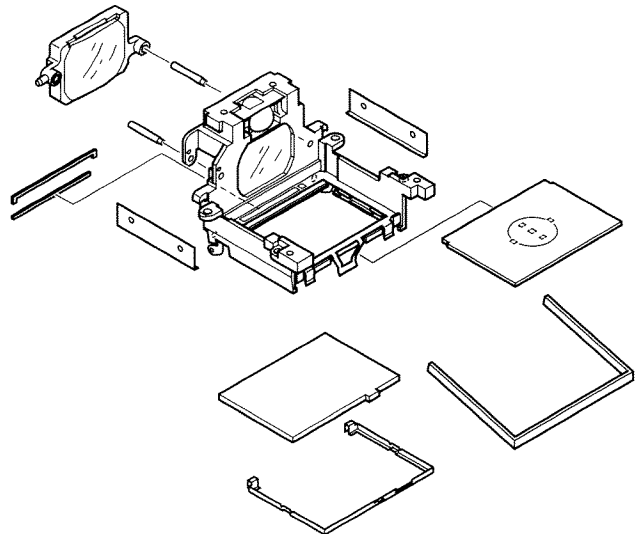
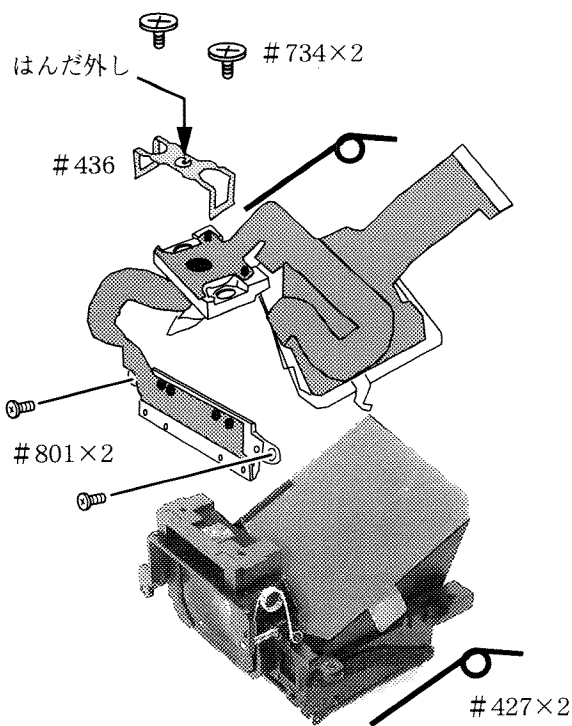
Remove the superimpose holder.



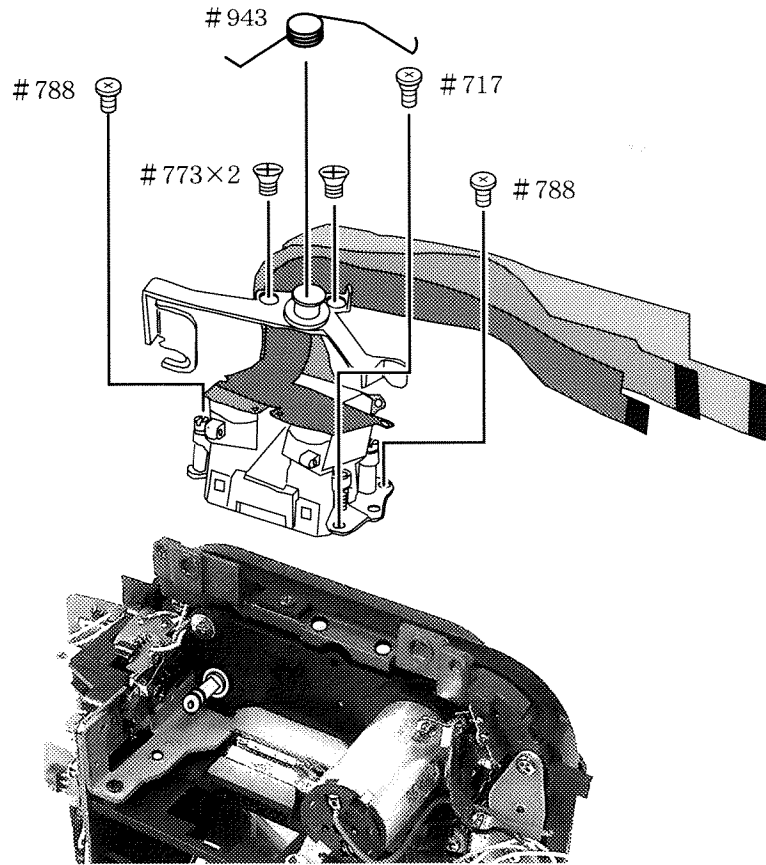
Remove each solder bridge



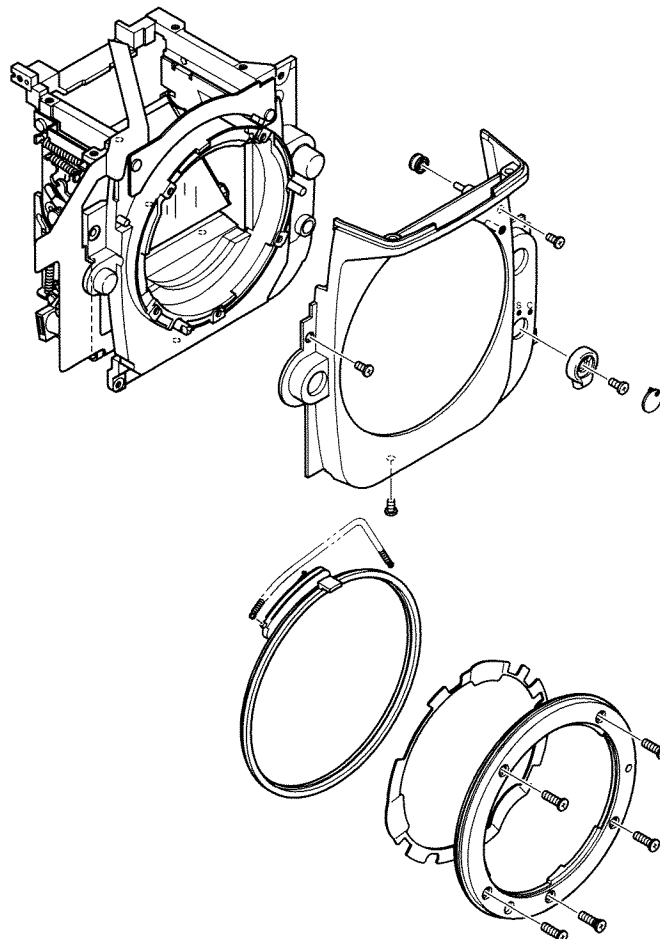
Remove the in-finder display FPC/AE SPD.



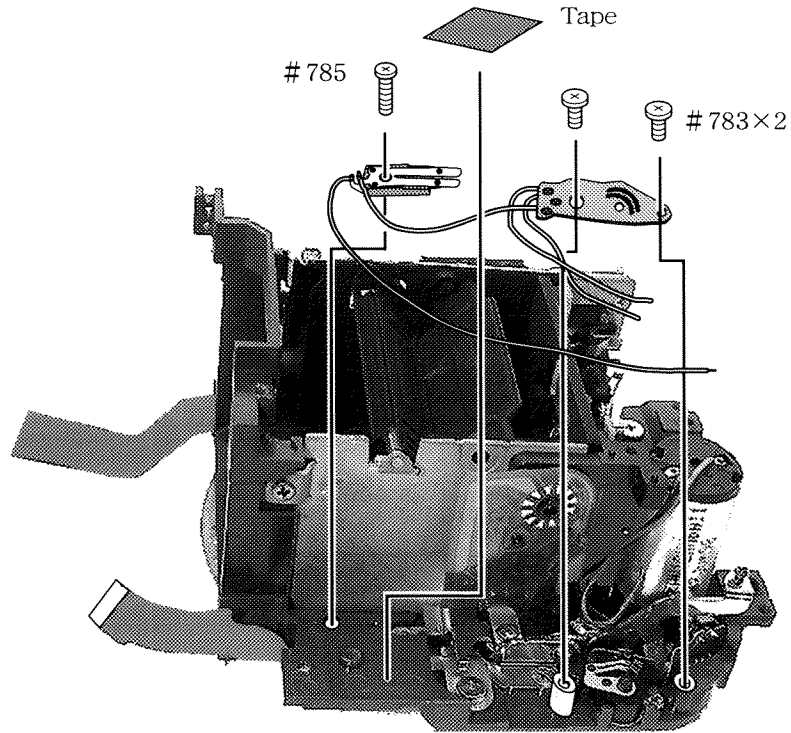
Horizontal AF lever, AF unit



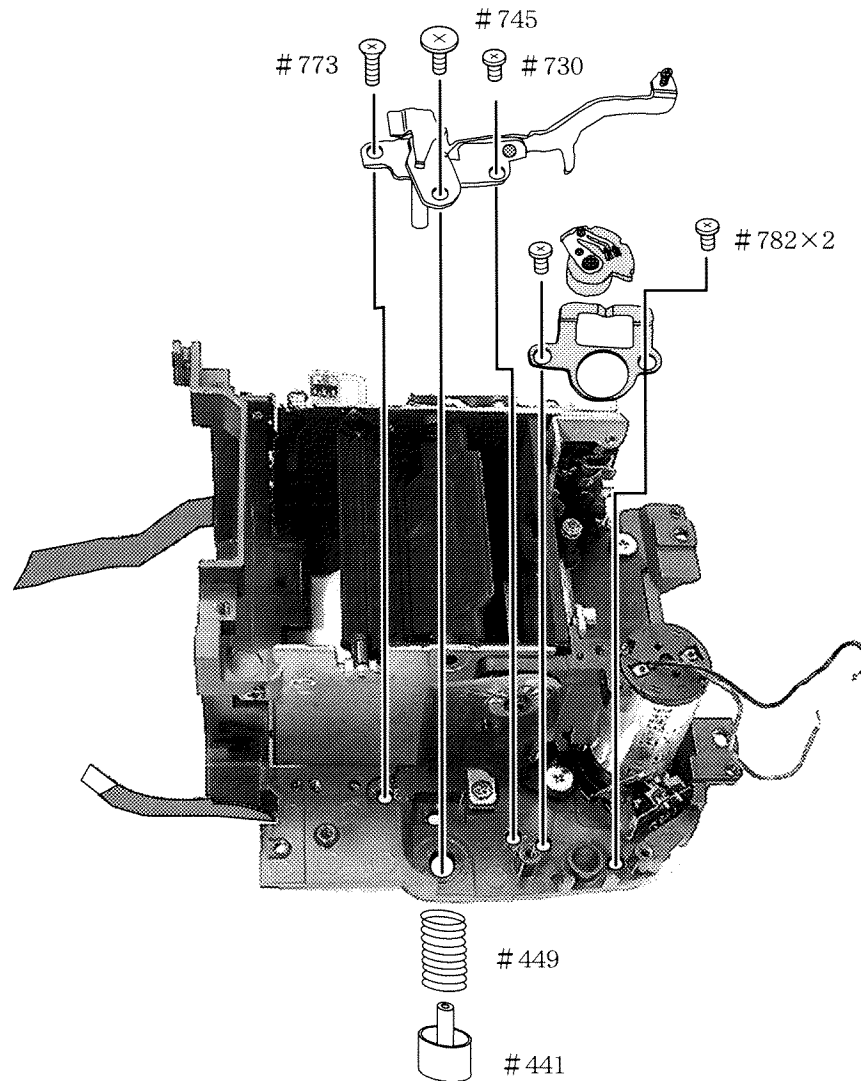
Bayonet mount, apron



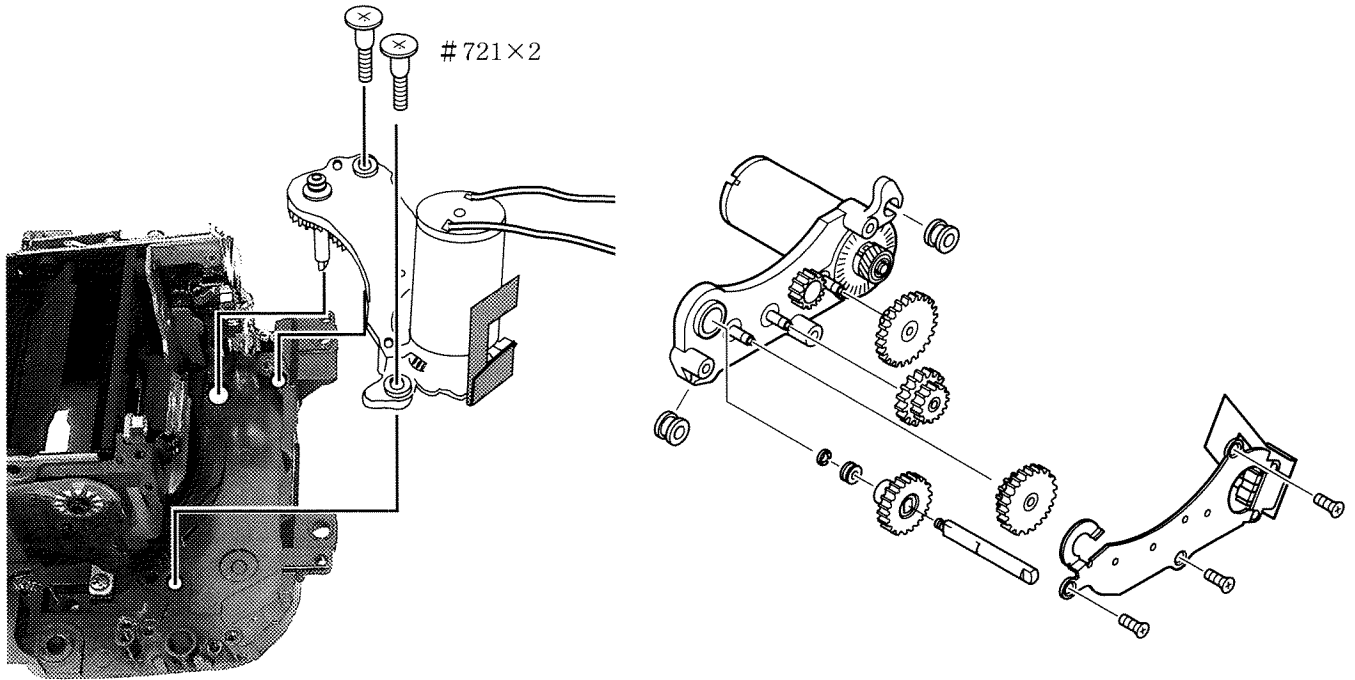
Attachable lens switch unit, AF/M switch circuit board



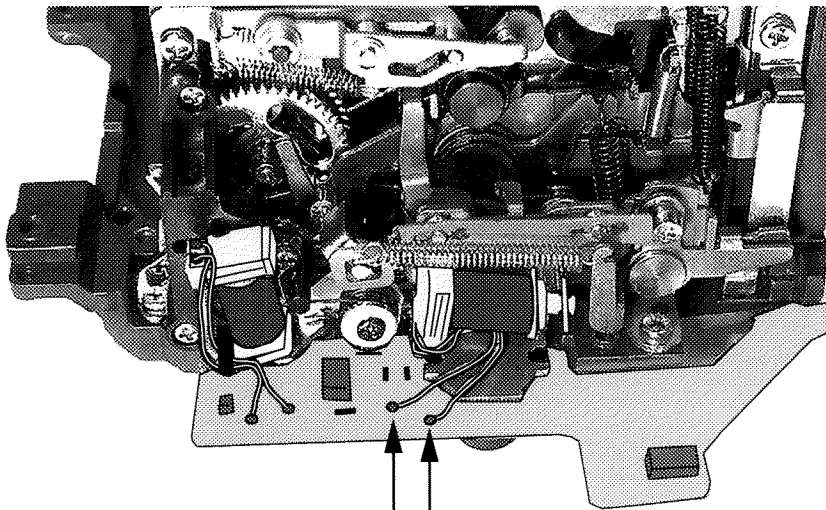
Lens release button unit, lens release base plate



AF driving unit



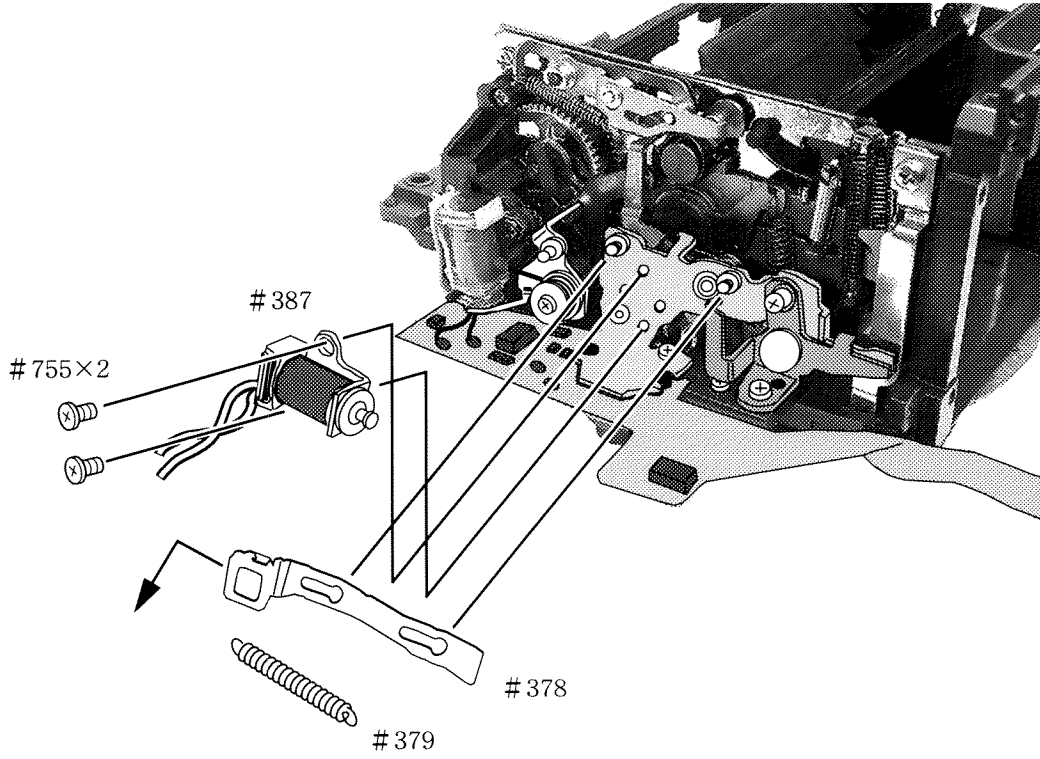
Preview unit



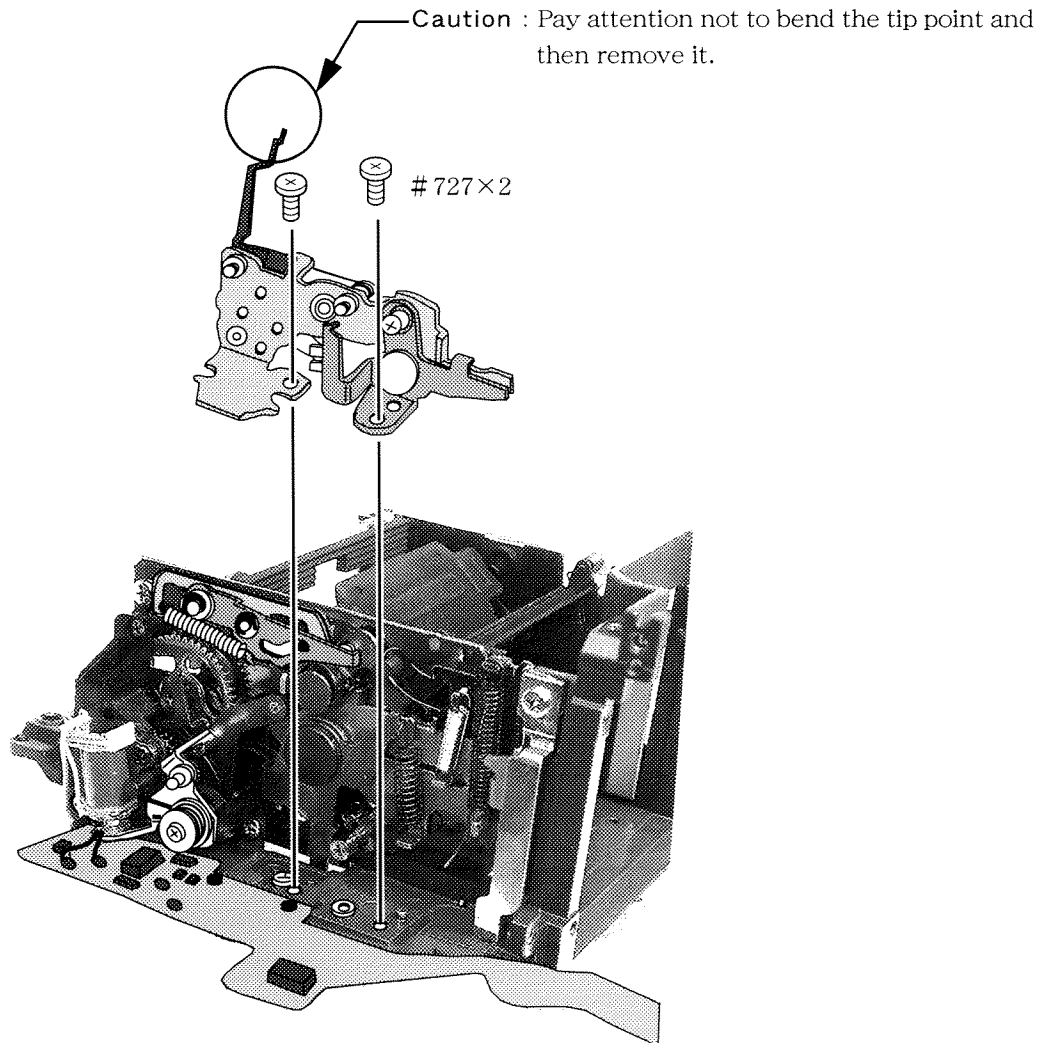
● Remove the two soldered areas.

Gray : preview solenoid

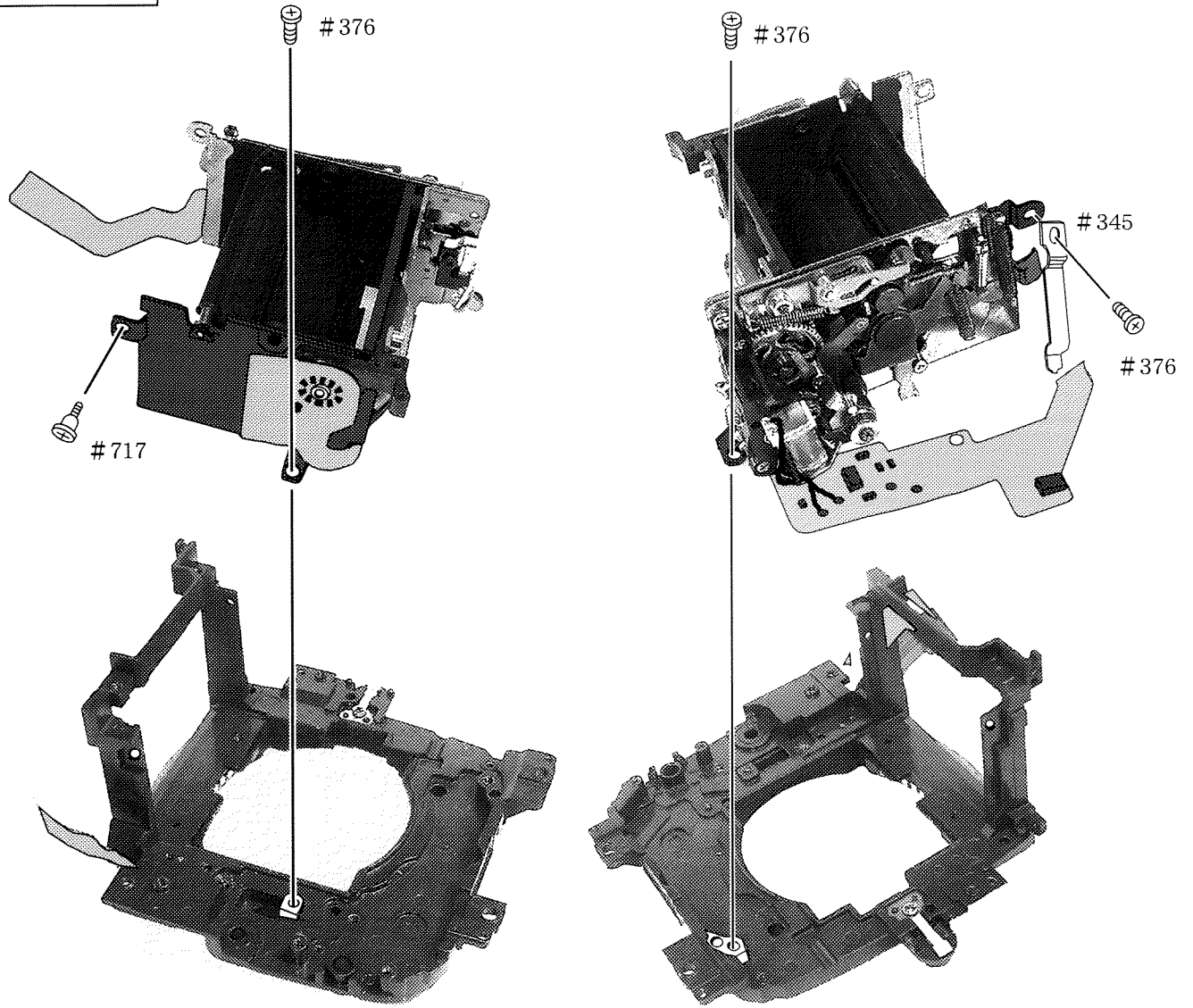
Yellow : preview solenoid



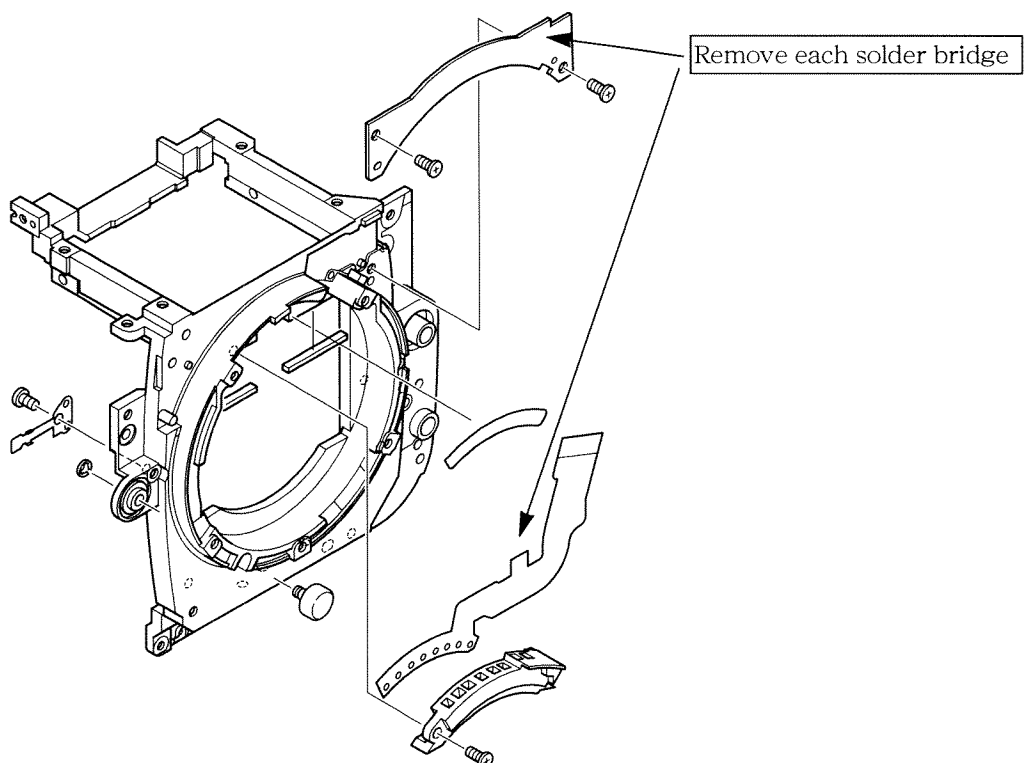
- Slide the aperture reset link lever #378 in the arrow direction and then remove it.



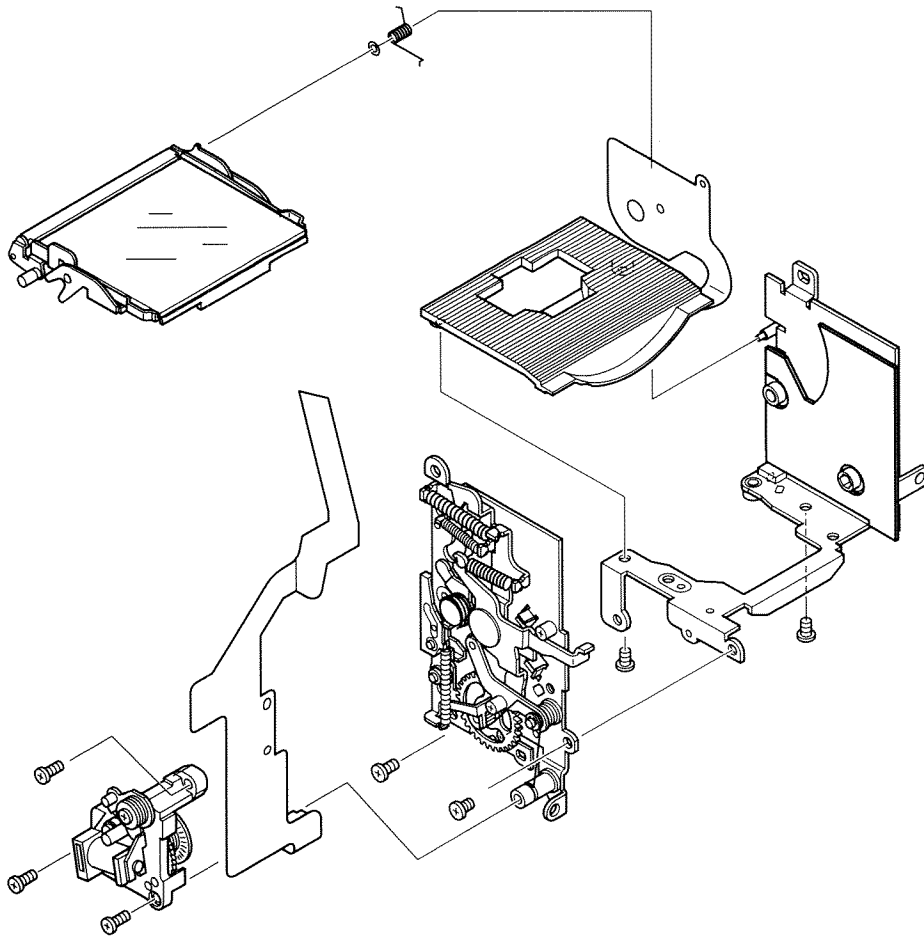
Mirror box



Others



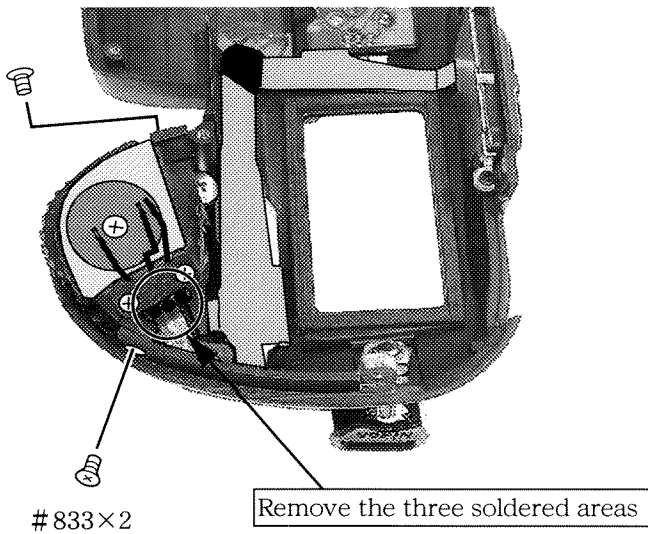
I base plate, L base plate



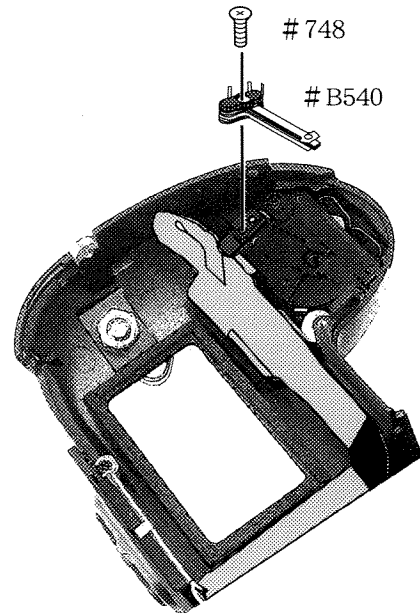
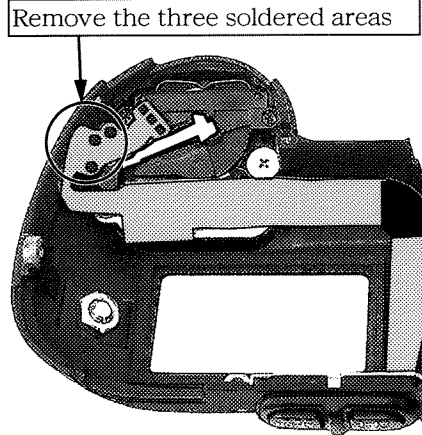
Caution : Avoid to directly touch the black-painted area on the main mirror holder.
This is for the sake of protection against discolouration.

5. Top cover

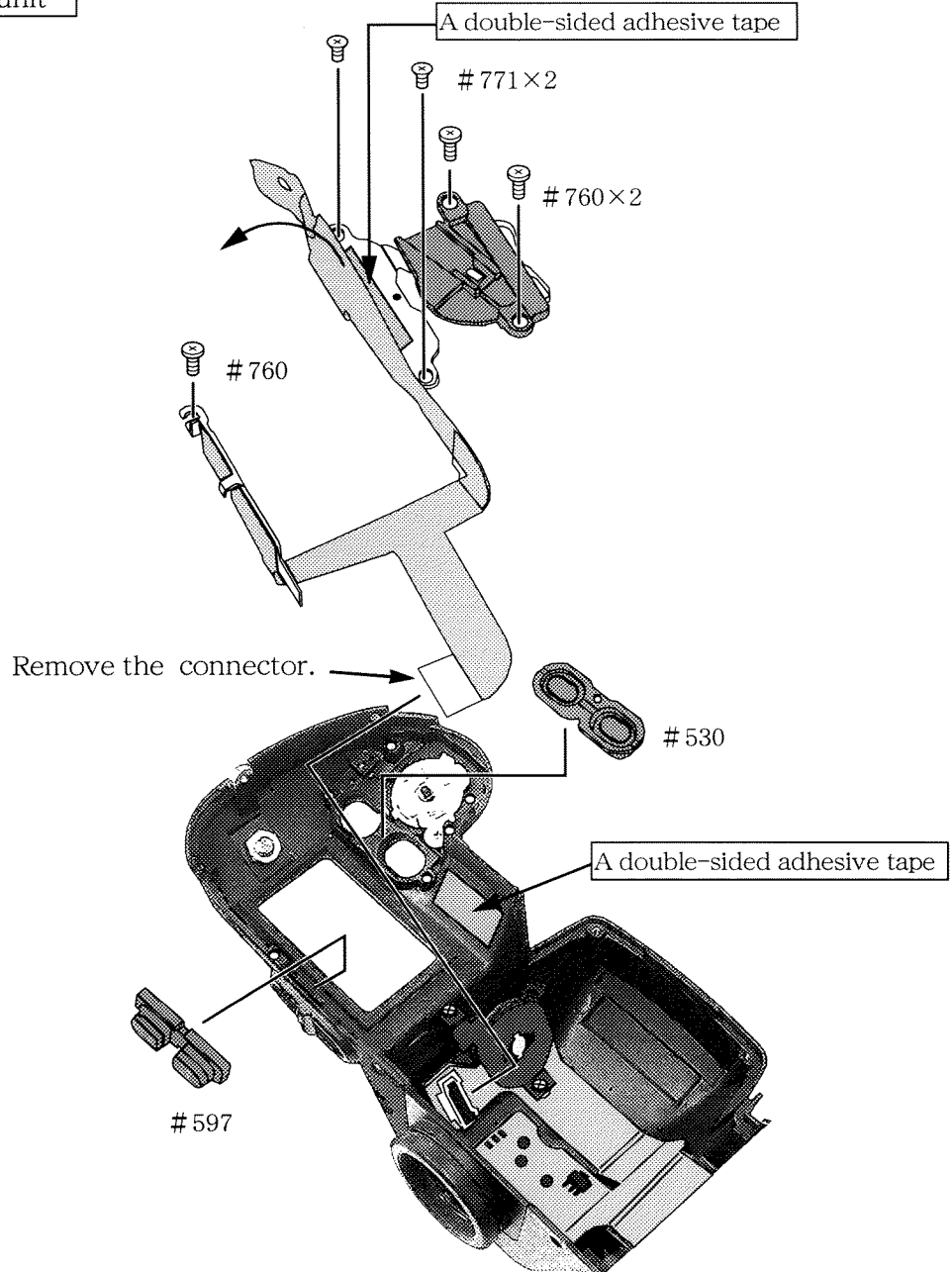
Front C/D unit



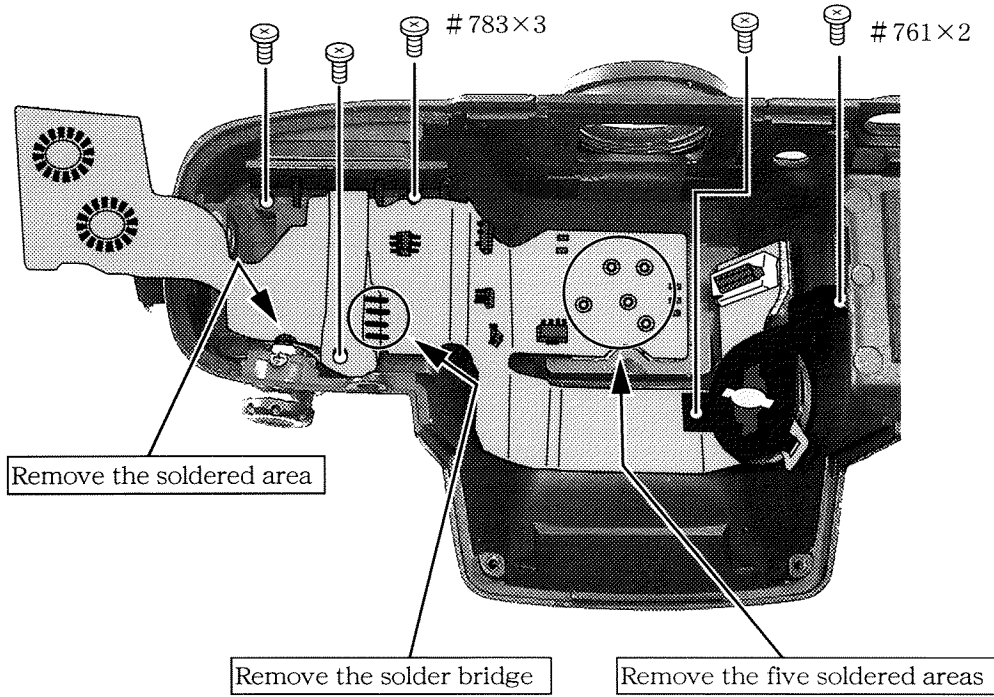
Release switch unit



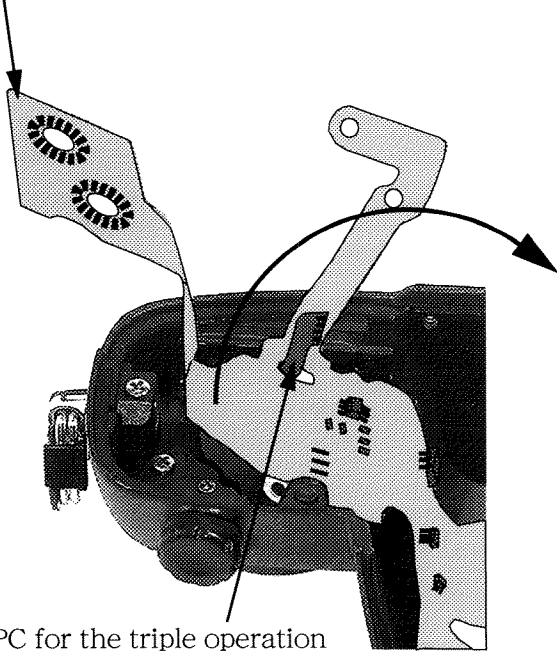
Front C/DFPC unit



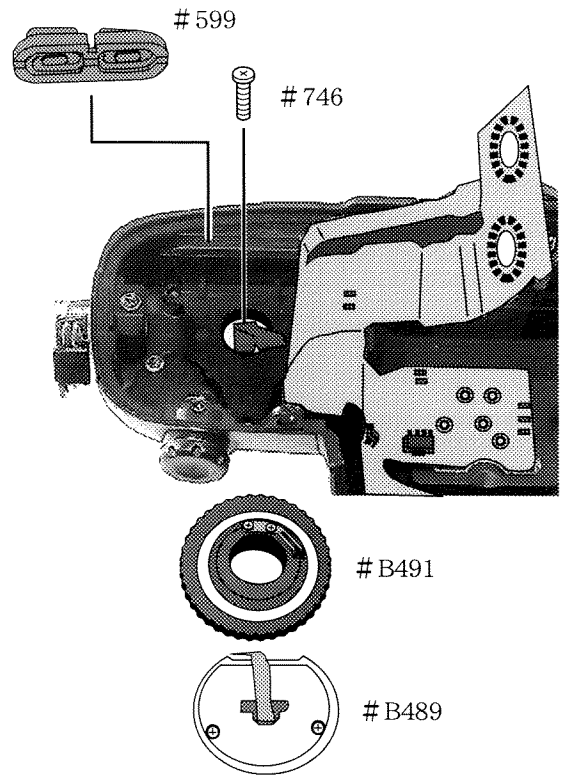
Top cover FPC / film advance mode dial / triple operation buttons



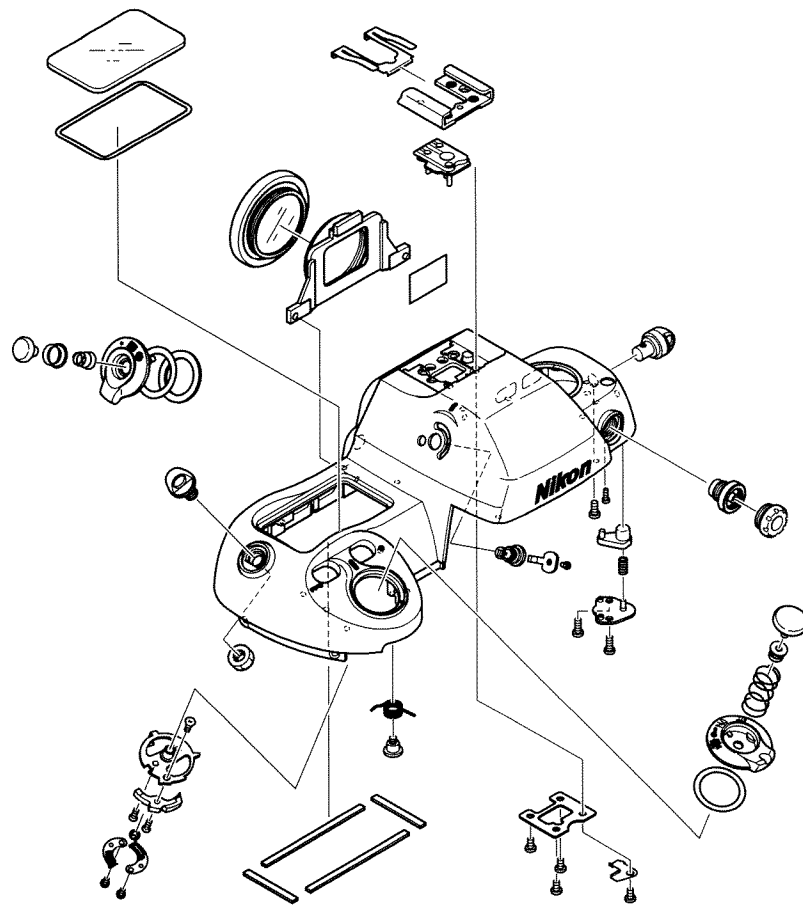
Top cover FPC



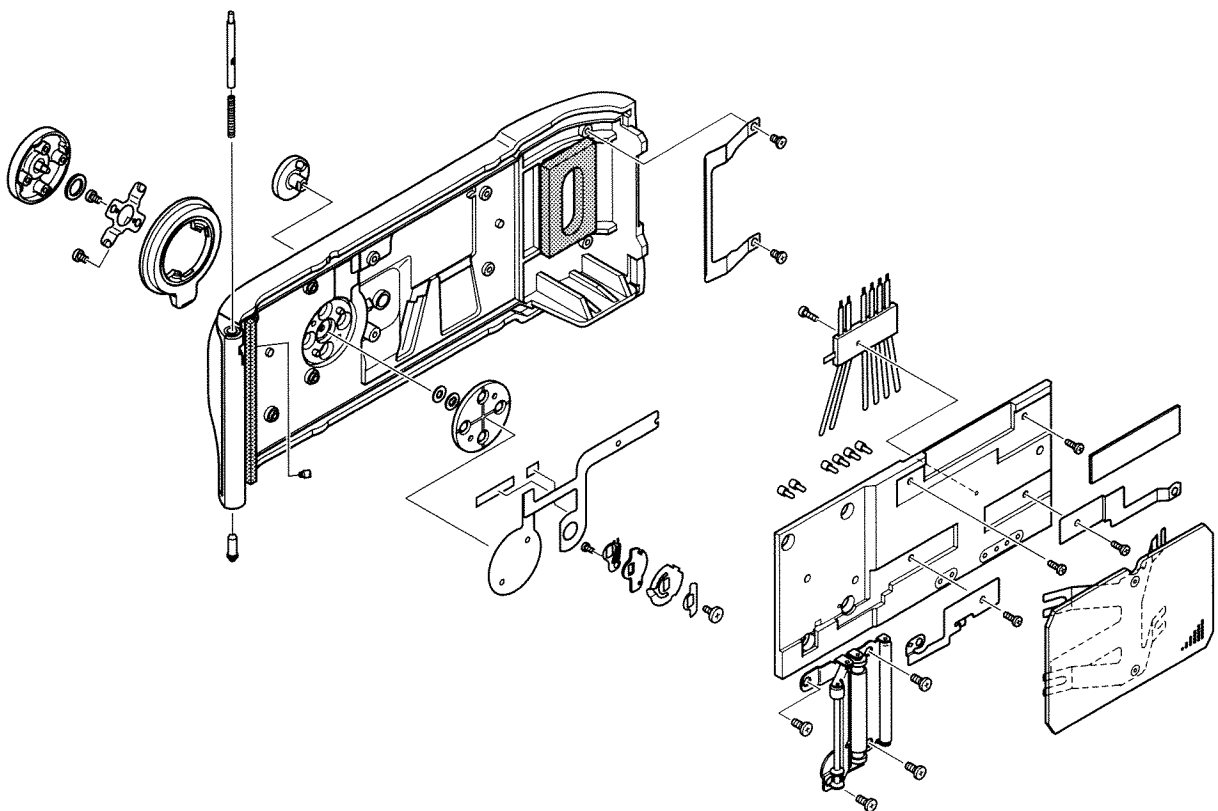
FPC for the triple operation buttons



Others



6. Rear cover



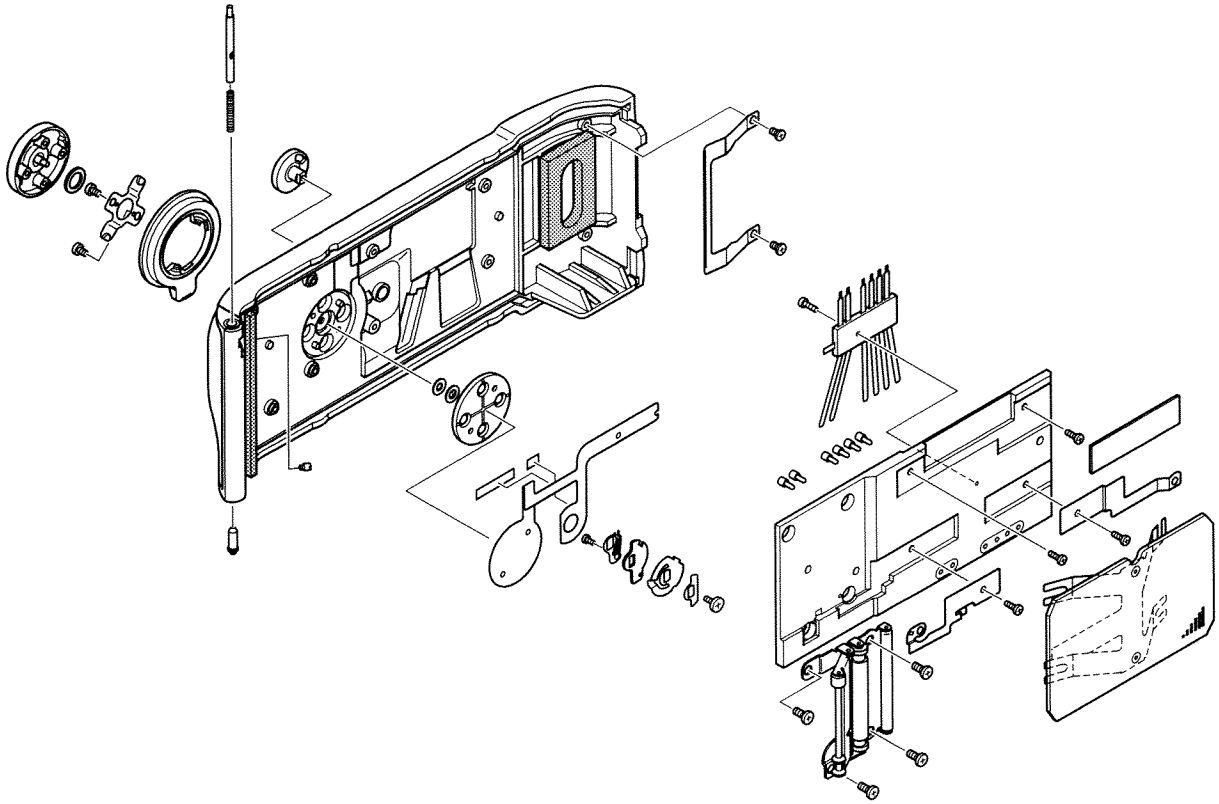
Assembly and adjustment

1 . Rear cover	A 1
2 . Top cover.....	A 1
Any other small part(s)	A 1
Top cover FPC / film advance mode dial / triple operation buttons	A 2
Front C/DFPC unit	A 3
Release switch unit	A 3
Front C/D unit	A 4
3 . Front body	A 4
Any other small part(s)	A 4
I base plate, L base plate	A 5
How to adhere the main mirror	A 6
Mirror box	A 6
Preview unit	A 7
AF driving unit	A 8
Lens release button unit, lens release base plate	A 9
Lens release switch unit, AF/M switch circuit board	A 9
Bayonet mount, apron	A 1 0
Horizontal AF lever, AF unit	A 1 0
Height adjustment for the AF coupling	A 1 1
Height adjustment for the aperture lever	A 1 1
Prism box	A 1 2
Angle adjustment of main mirror and sub mirror to 45°	A 1 3 ~ A 1 4
Adjustment for the infinity alignment	A 1 5
AE SPD position adjustment	A 1 5
Light baffle plate	A 1 5
Main printed circuit board	A 1 6
Diopter adjuster unit	A 1 7
4 . Rear body	A 1 8
Any other part(s)	A 1 8
F detection switch	A 1 8
Grip	A 1 9
Power FPC	A 1 9
Rewind unit	A 2 0
DX/DB F P C	A 2 1
Rear cover open / close key	A 2 2

	Film advance detection unit, sprocket	A 2 2
	Film advance unit	A 2 3
	Bottom base plate	A 2 4
	Shutter unit	A 2 4
	Sequence unit, spool	A 2 5 ~ A 2 7
	DC / DC circuit board	A 2 7
	Remote terminal	A 2 8
	Rear C/D unit	A 2 8
5.	Mounting and fixing the front body on to the rear body	A 2 9
	Fixing the front body to the rear body	A 2 9
	Where to connect the connectors / where to solder the solder bridge	A 2 9
	Adjustment for the bodyback	A 3 0
6.	Exterior	A 3 0
	Top cover	A 3 0
	Adjustment through PC	A 3 1
	AF adjustment	A 3 2
	Bottom cover	A 3 3
	Grip rubber, rewind-sided rubber, cover	A 3 3
	Adjustment through PC operation required at replacement of part(s)	A 3 4

Assembly and adjustment

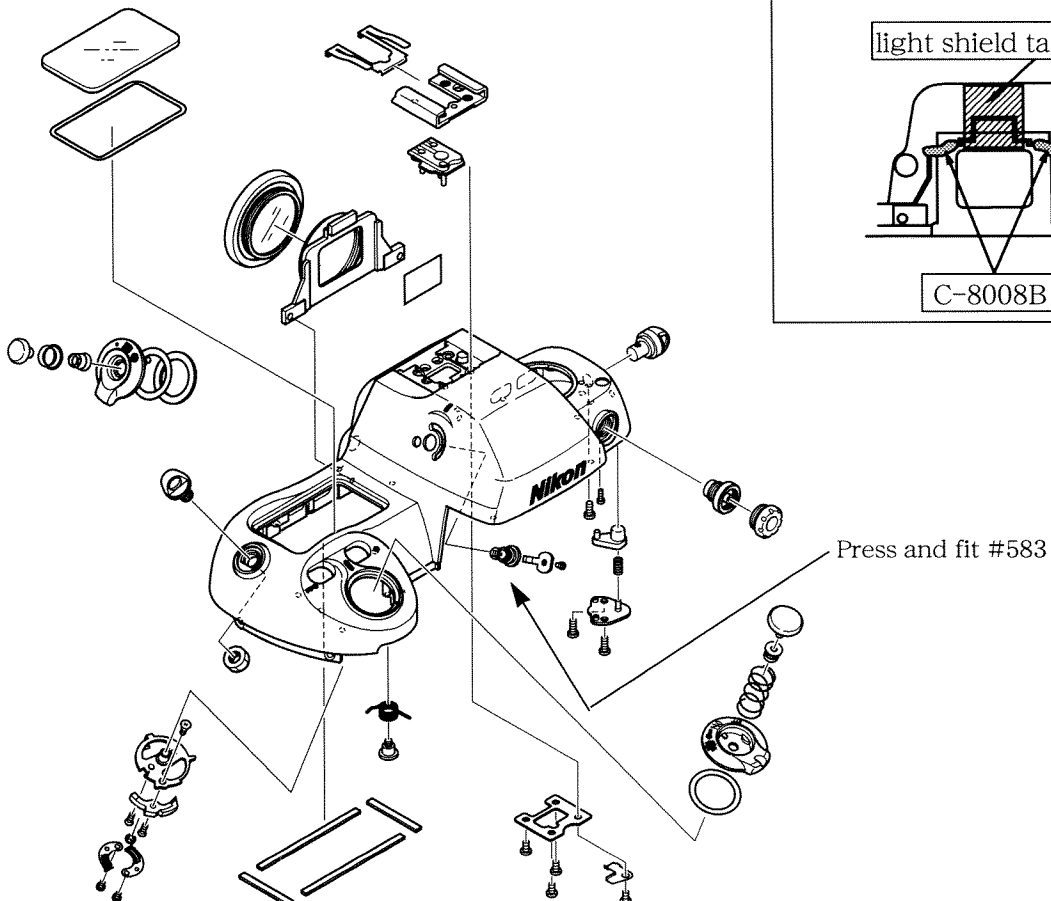
1. On the rear cover



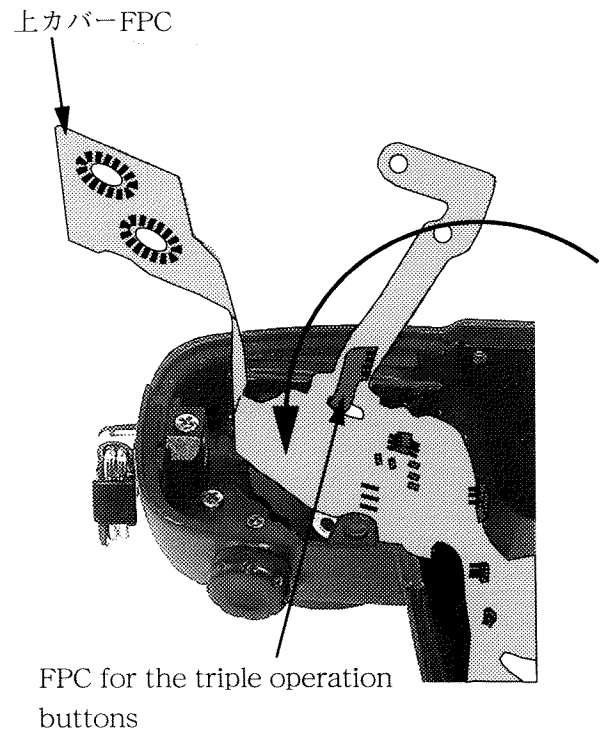
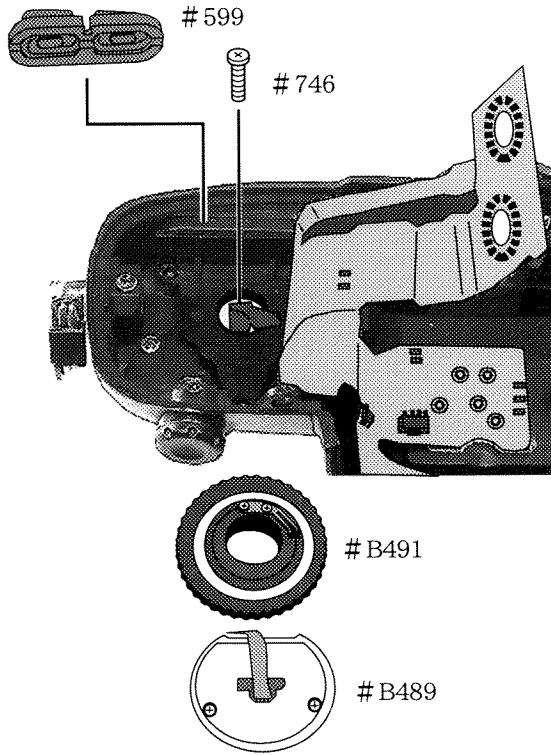
2. On the top cover

Any other small part(s)

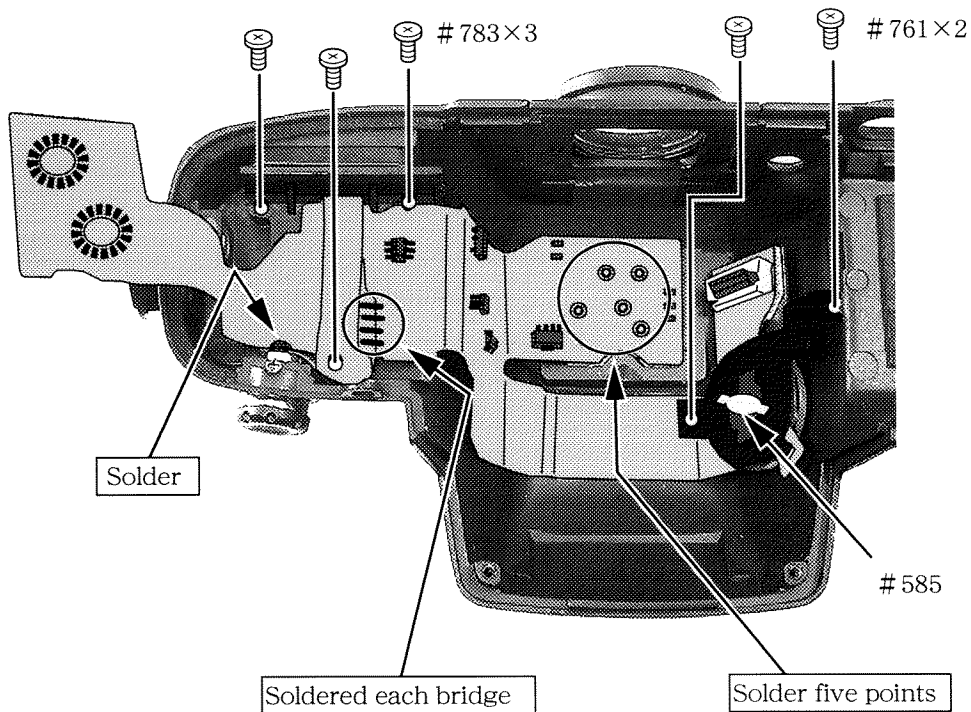
Position to attach the eyepiece frame



Top cover FPC / film advance mode dial / triple operation buttons

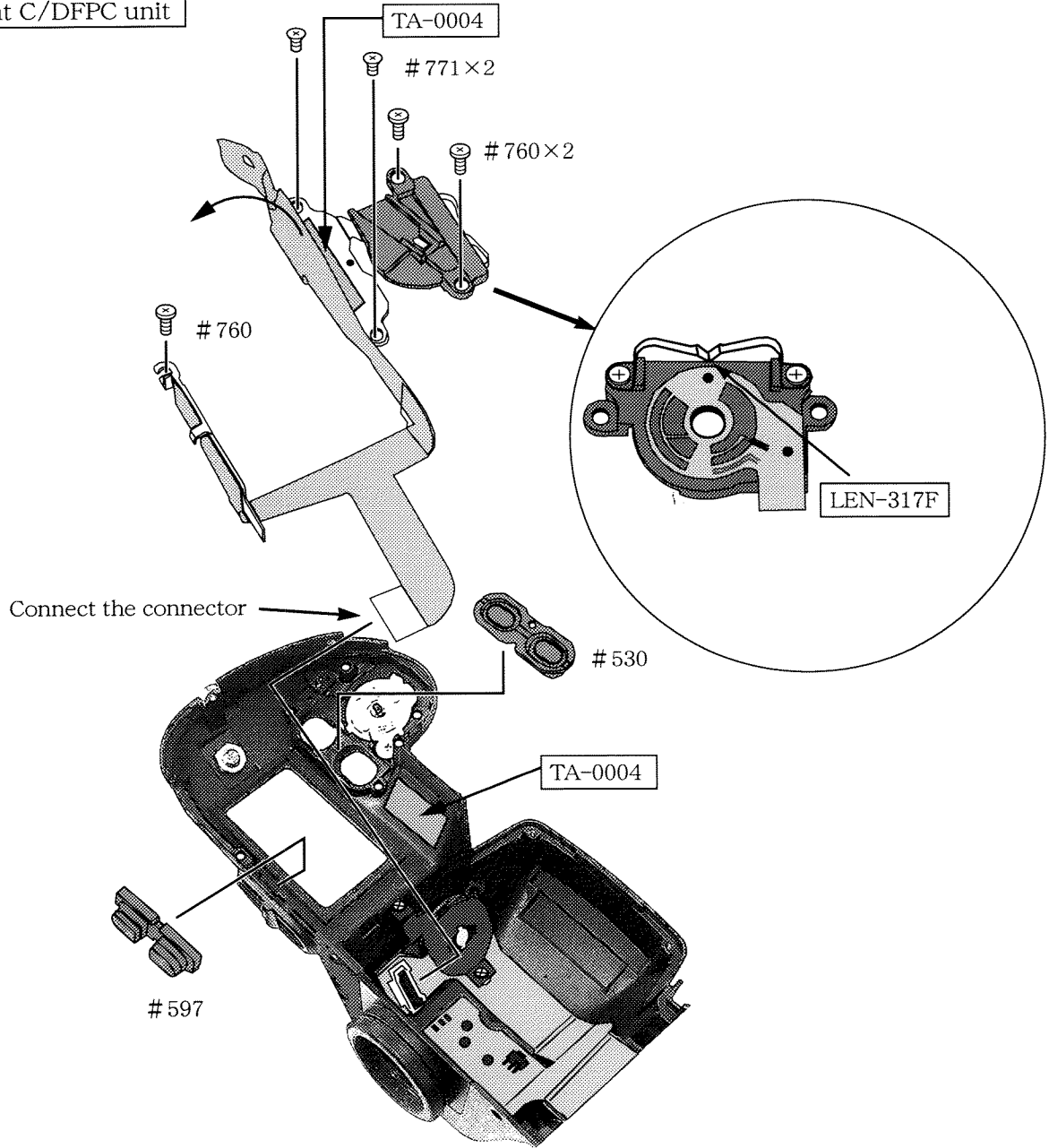


- Pass the triple operation buttons' FPC through the hole on top cover FPC.

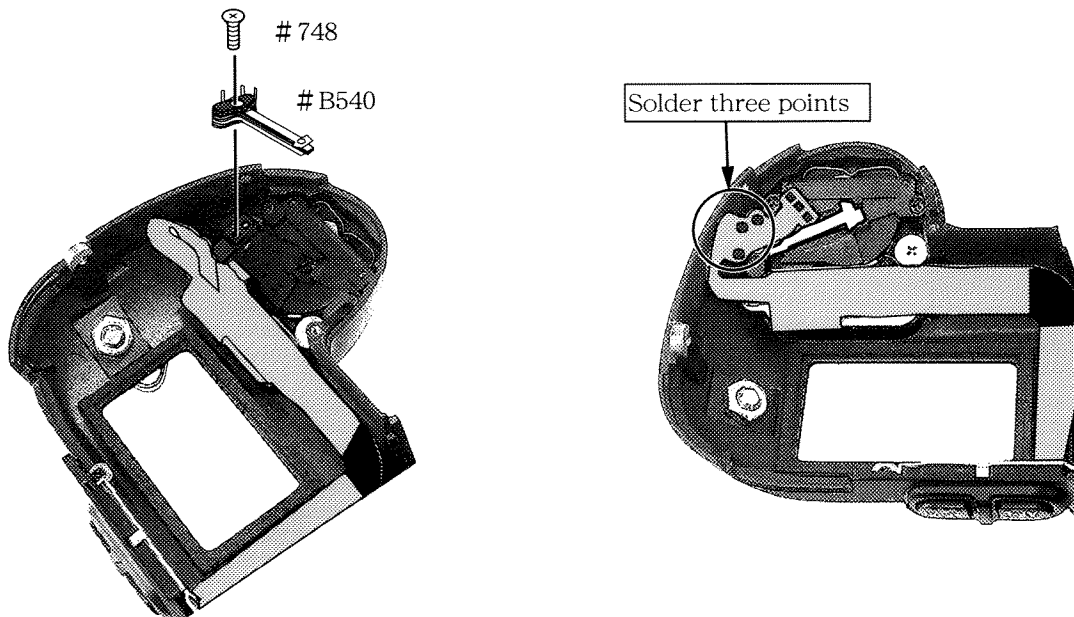


- Fit the photometry mode dial's projection into the notch on photometry mode change plate #585 and fix them together.

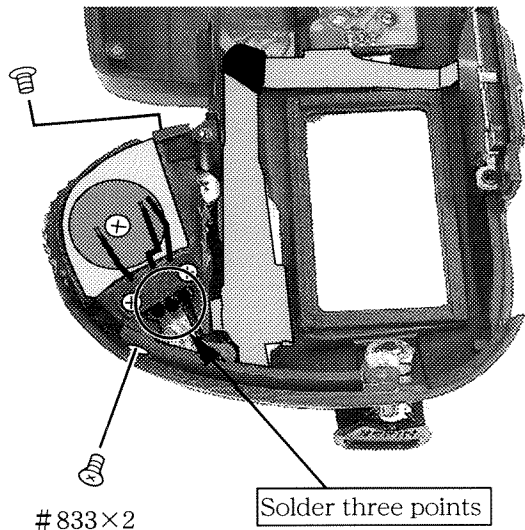
Front C/DFPC unit



Release switch unit

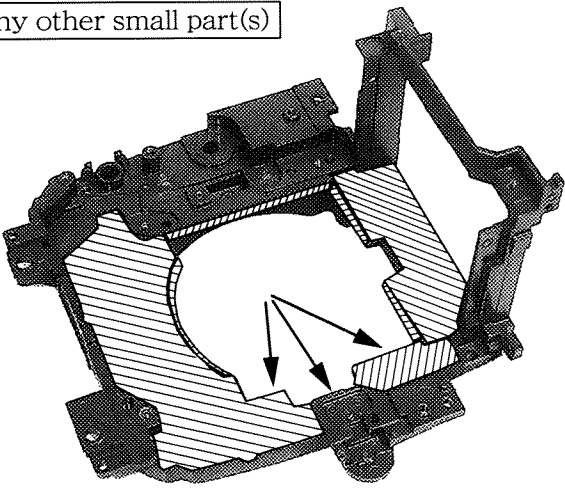


Front C/D unit

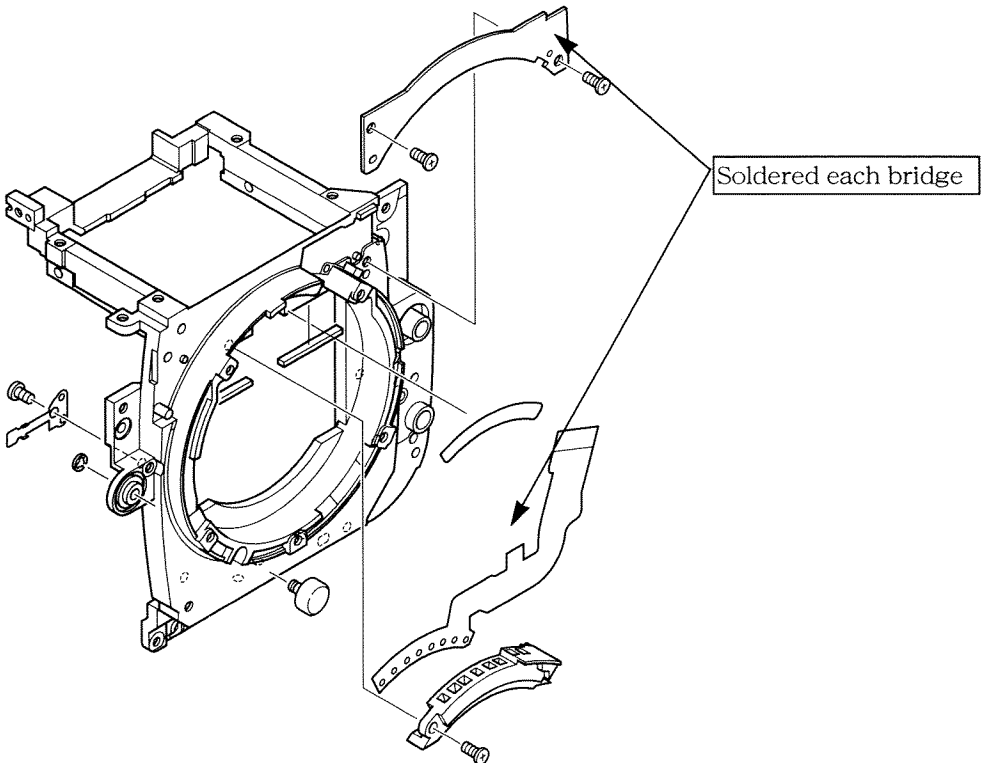


3. Front body

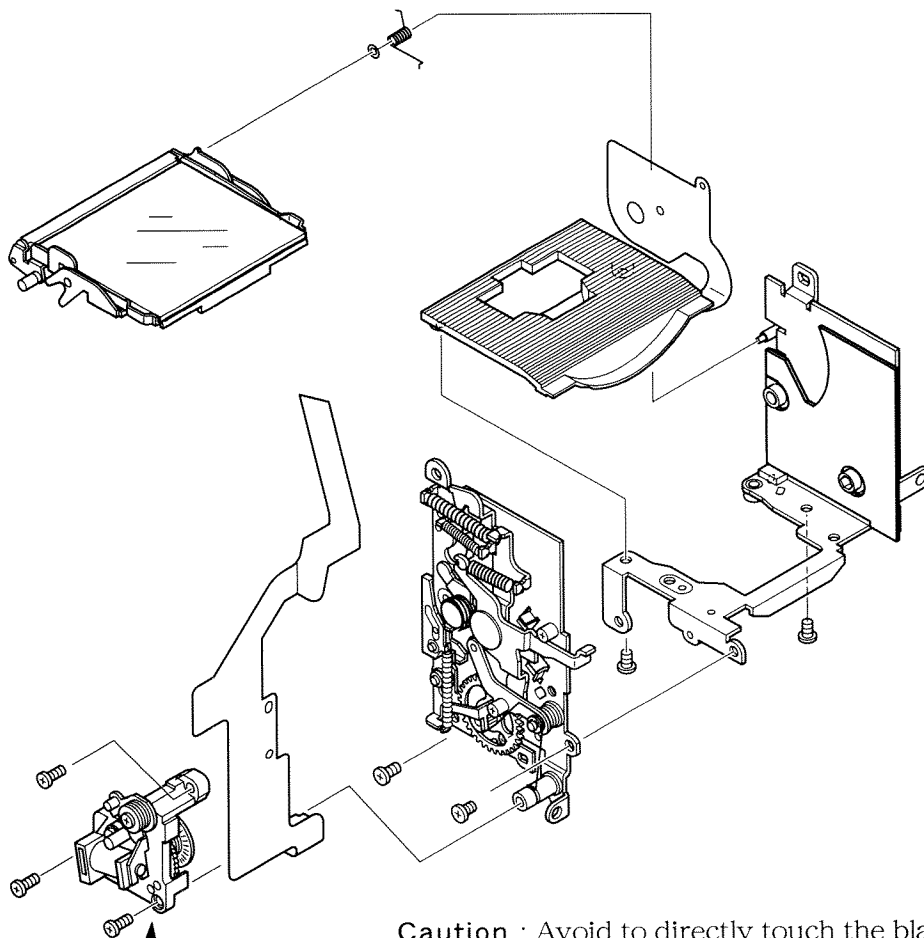
Any other small part(s)



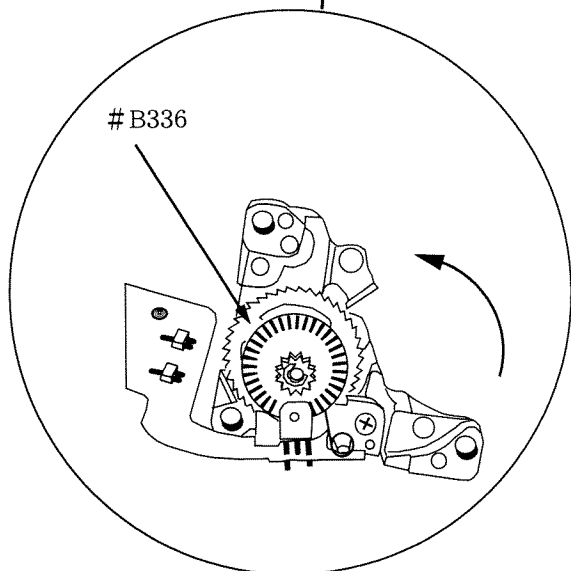
- Apply the oil barrier to the diagonal-lined area and the arrow areas.



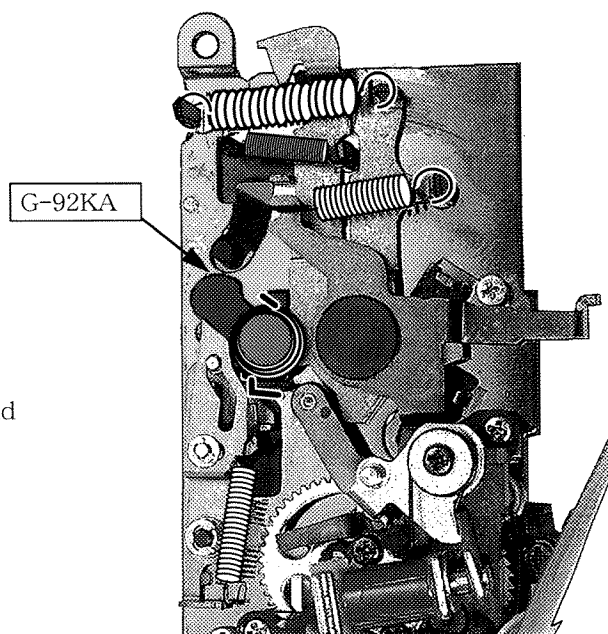
I base plate, L base plate



Caution : Avoid to directly touch the black-painted area on the main mirror holder.
This is for the sake of protection against discolouration.

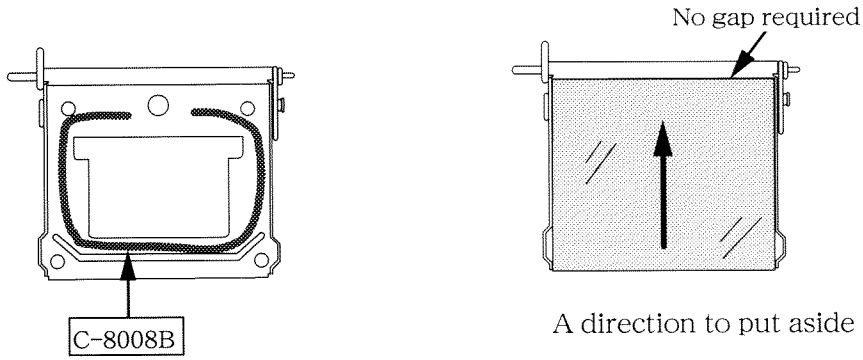


- Drive the ratchet gear #B336 one anticlockwise and then fix it on the I base plate.



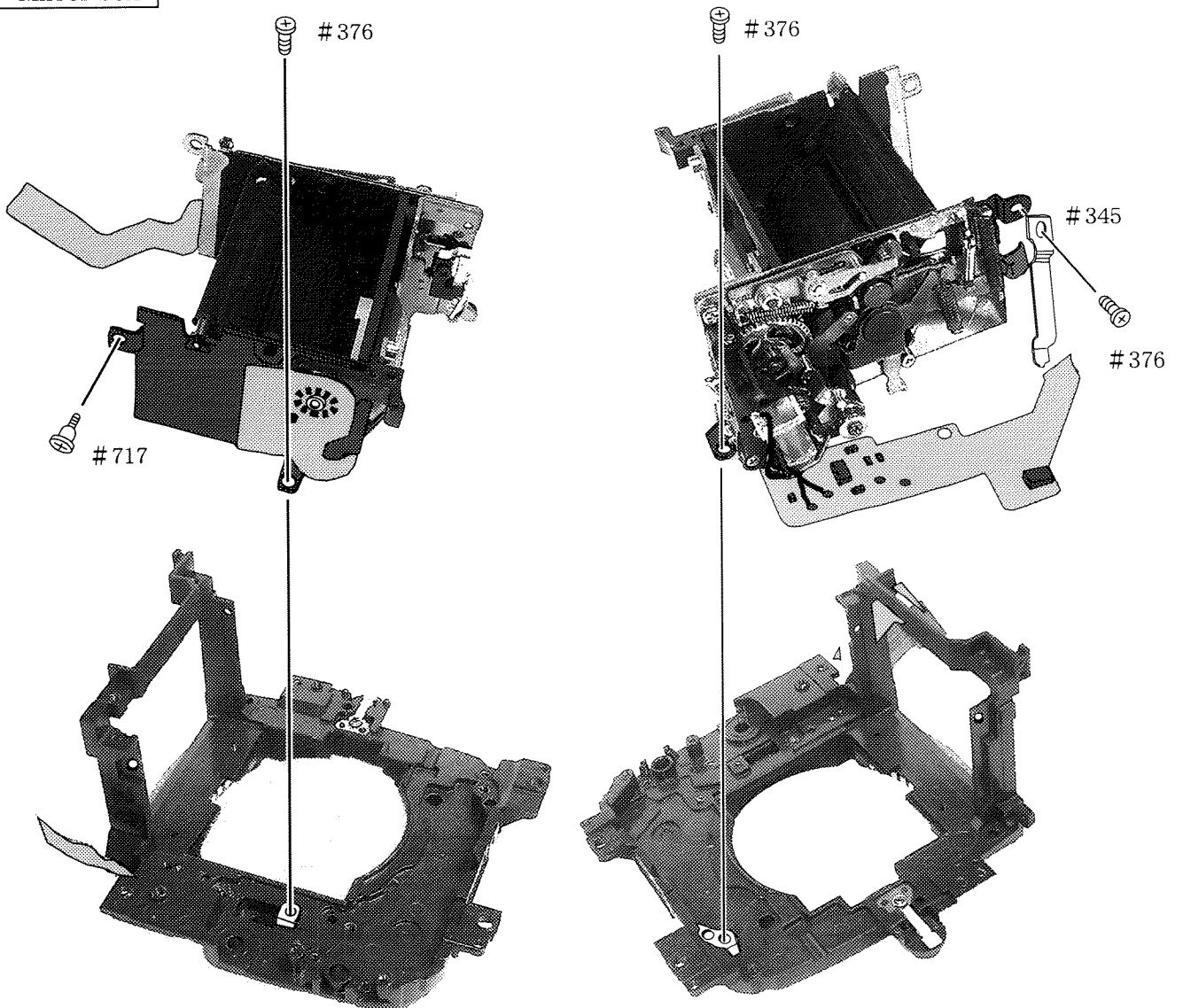
The position to hook the spring

How to adhere the main mirror

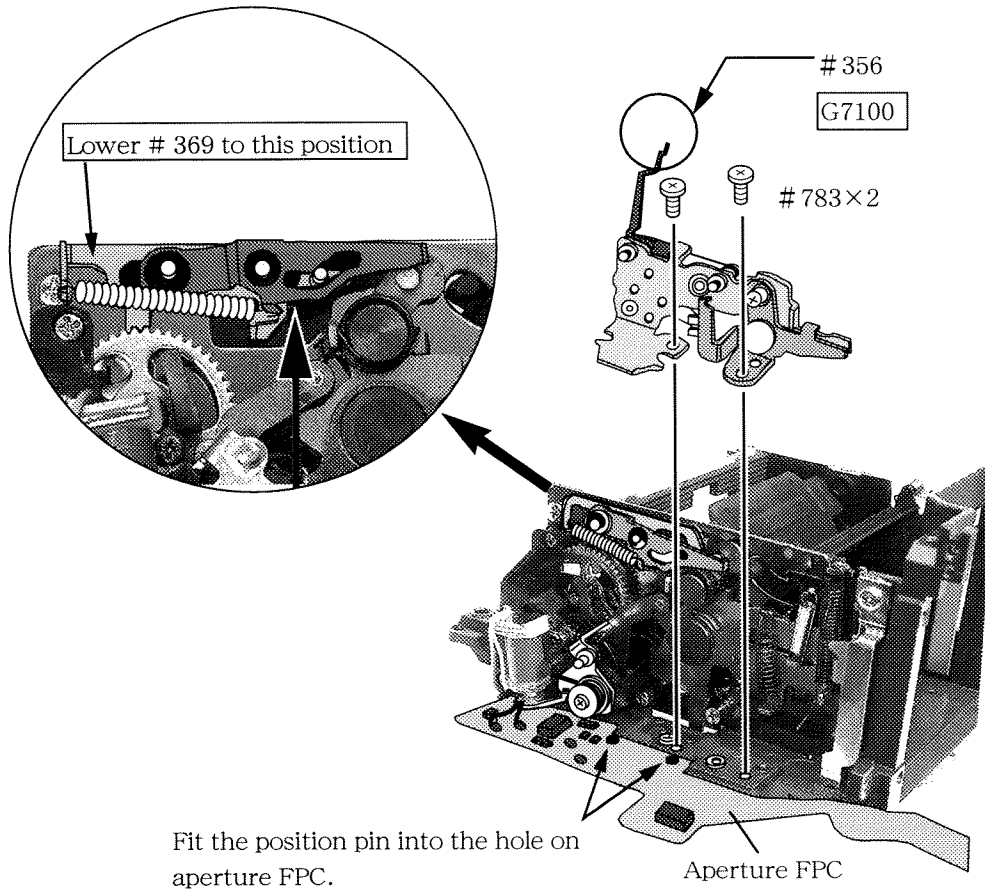


Note : In case of replacement of the main mirror, be sure to perform the 45-degree of angle adjustment between the main mirror and the sub mirror.
For more details, refer to the pages A 13 to 14.

Mirror box



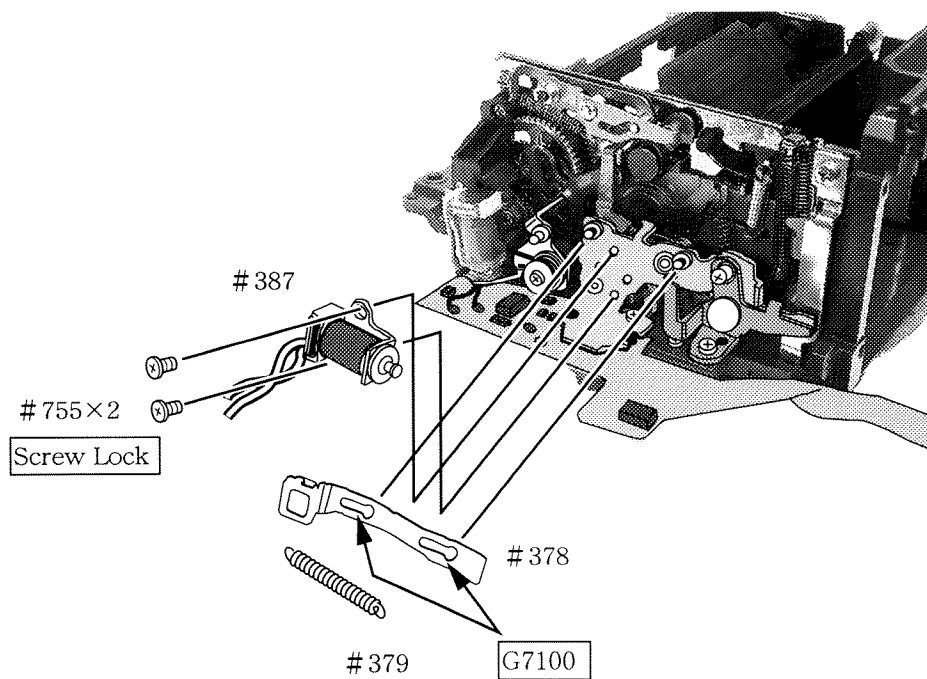
Preview unit

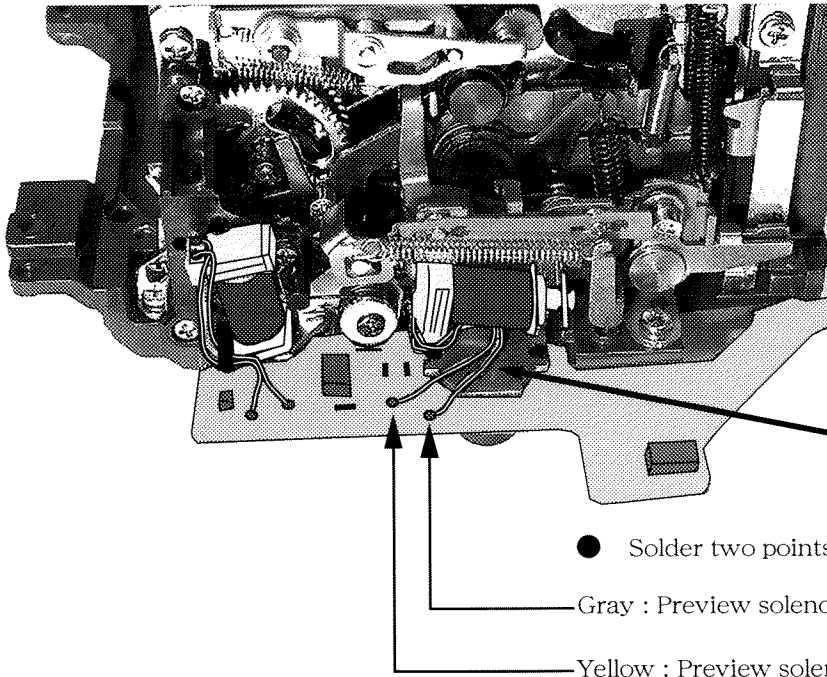


Fit the position pin into the hole on aperture FPC.

- Lower the preview slide lever #369 to the position described in the figure above.
- Fit the tip of mirror-up latch driving lever #356 into the \sqsupset -shaped area on the preview slide lever #369.

Then, assemble the preview unit.





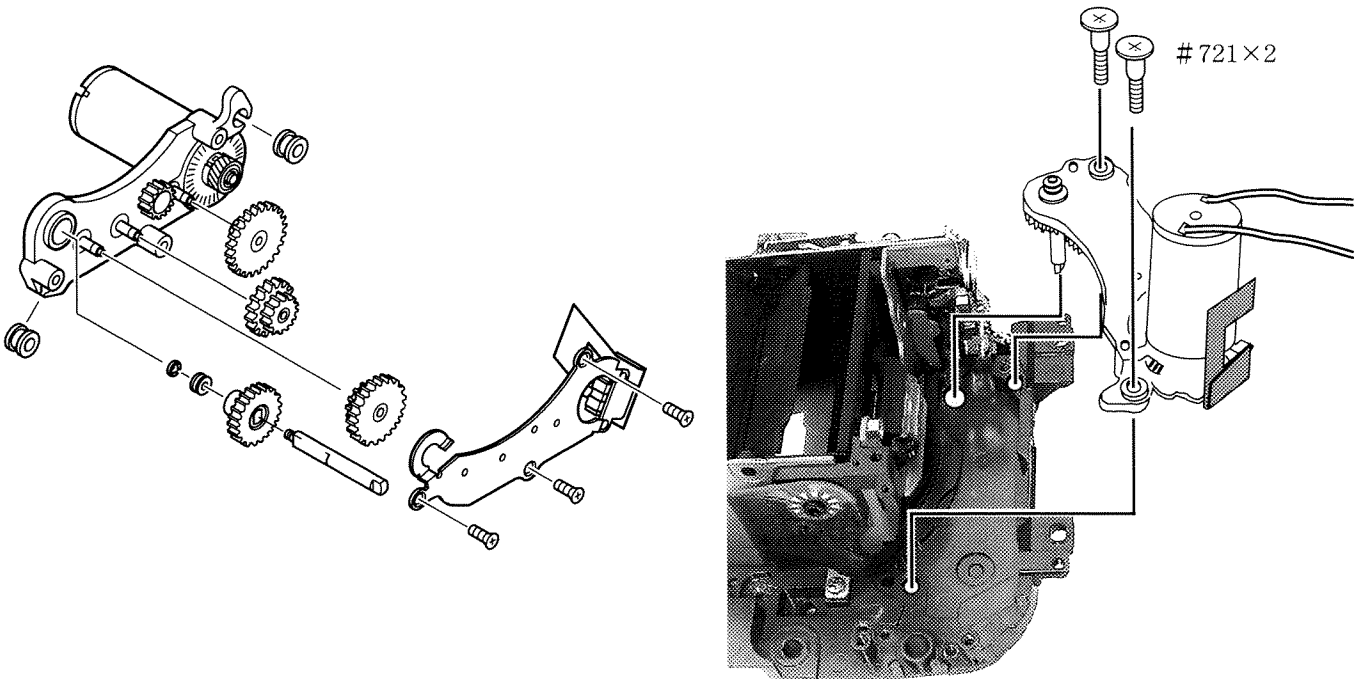
Place any extra lead wire(s) to beneath the solenoid.

● Solder two points.

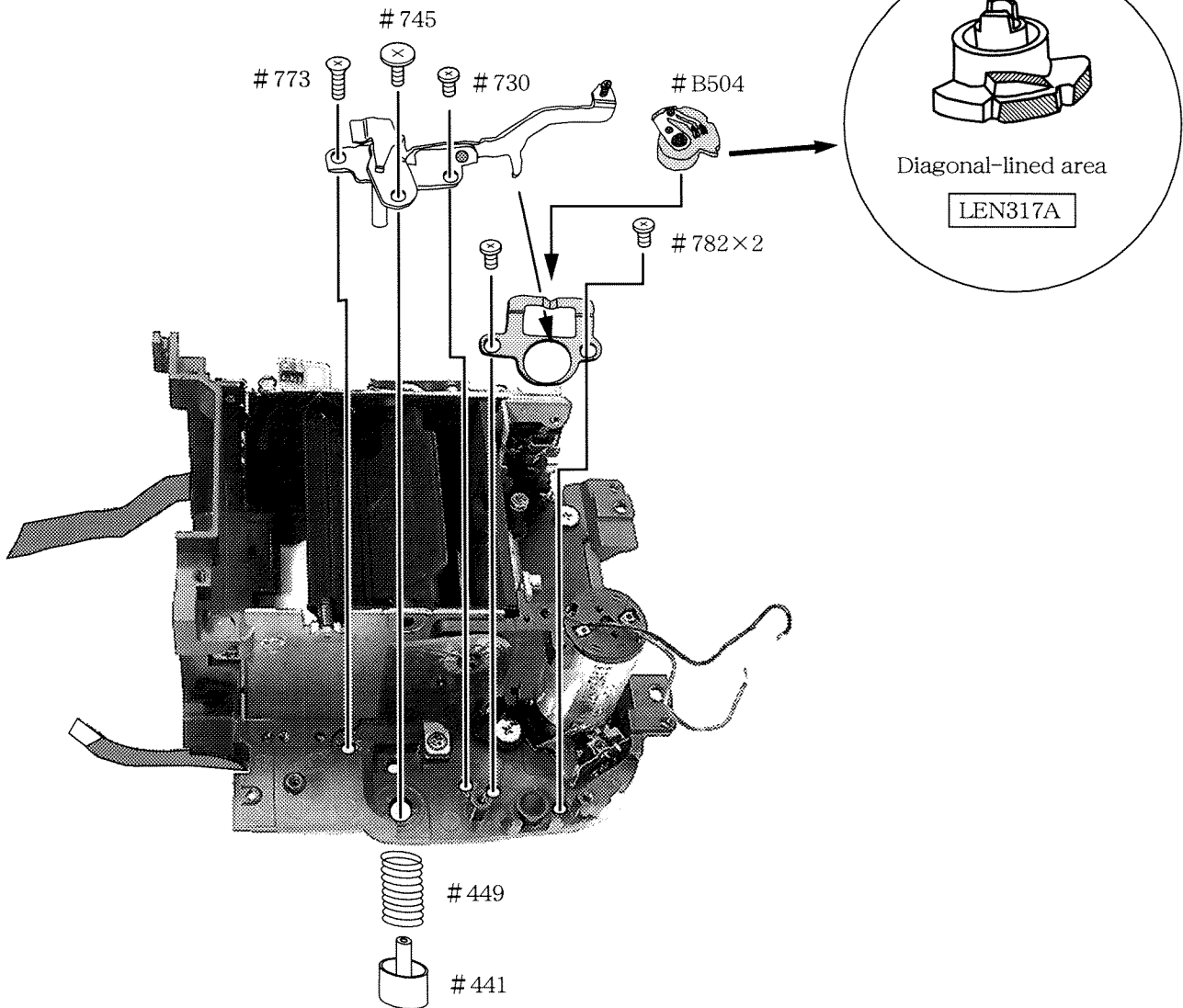
Gray : Preview solenoid

Yellow : Preview solenoid

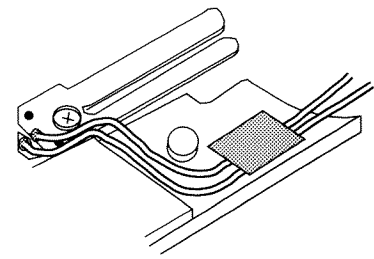
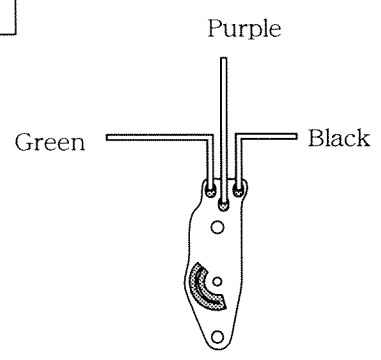
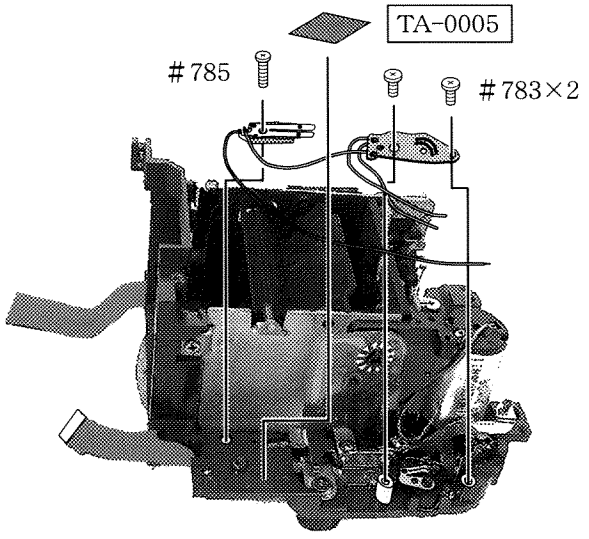
AF driving unit



Lens release button unit, lens release base plate

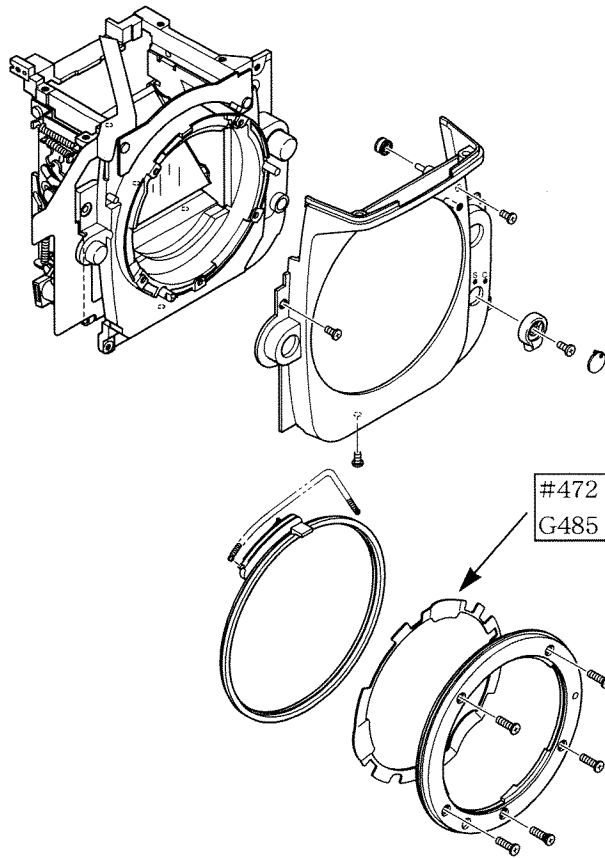


Lens release switch unit, AF/M switch circuit board

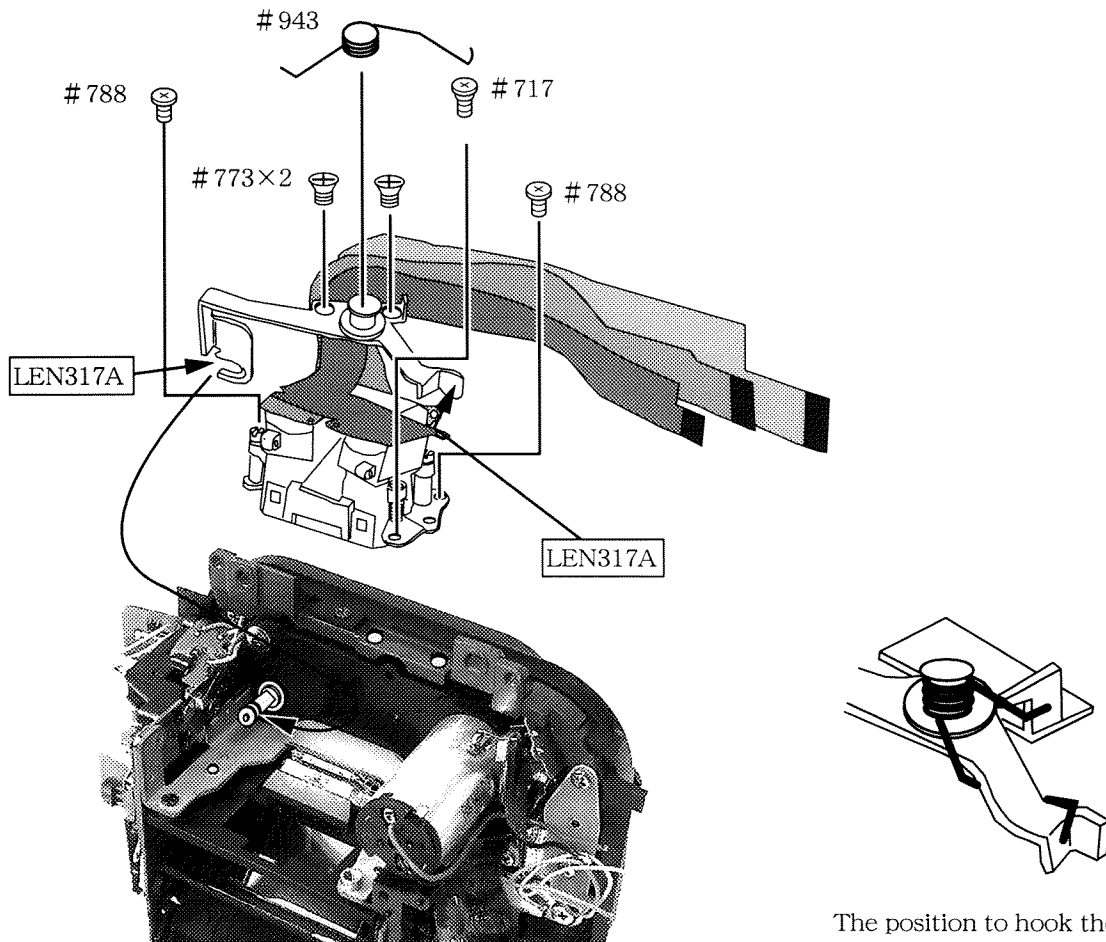


Where the black lead wire should go

Bayonet mount, apron

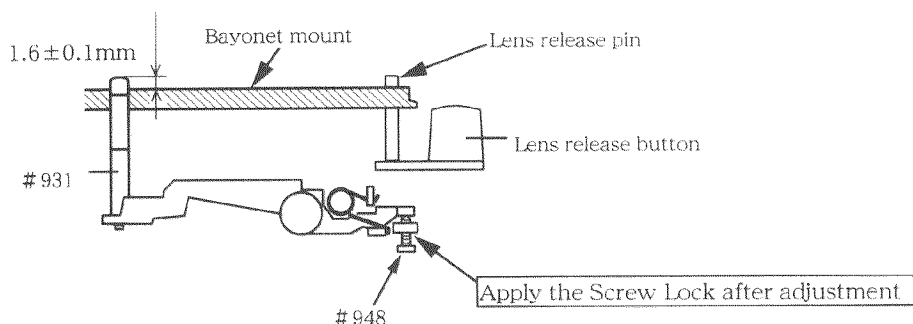


Horizontal AF lever, AF unit



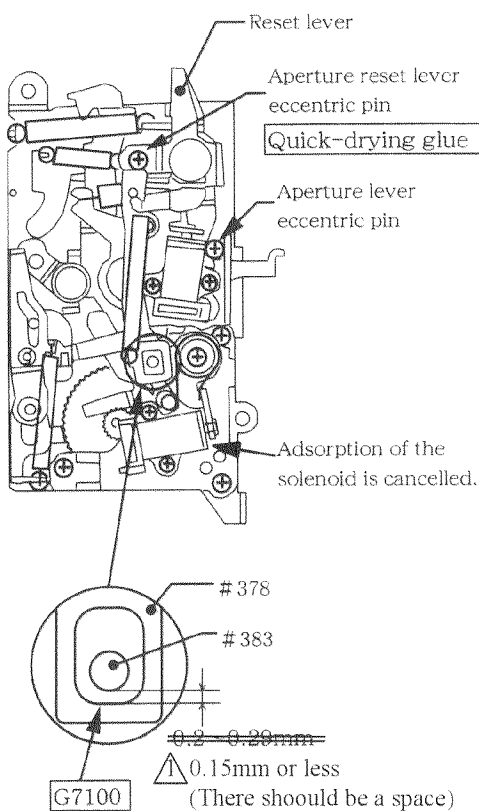
The position to hook the spring

Height adjustment for the AF coupling



- ① Set the AF switch lever to [S].
Then, press the (attachable lens button) two or three times and measure the height of AF coupling axis #931.
- ② Adjust the height of AF coupling axis #931 using the screw #948.
- ③ Be sure that when adjusting the height of (attachable lens pin) to 0.4 mm, the AF coupling axis should not be higher than the bayonet surface.
- ④ After adjustment, fix the screw #491 by the Screw Lock.

Height adjustment for the aperture lever



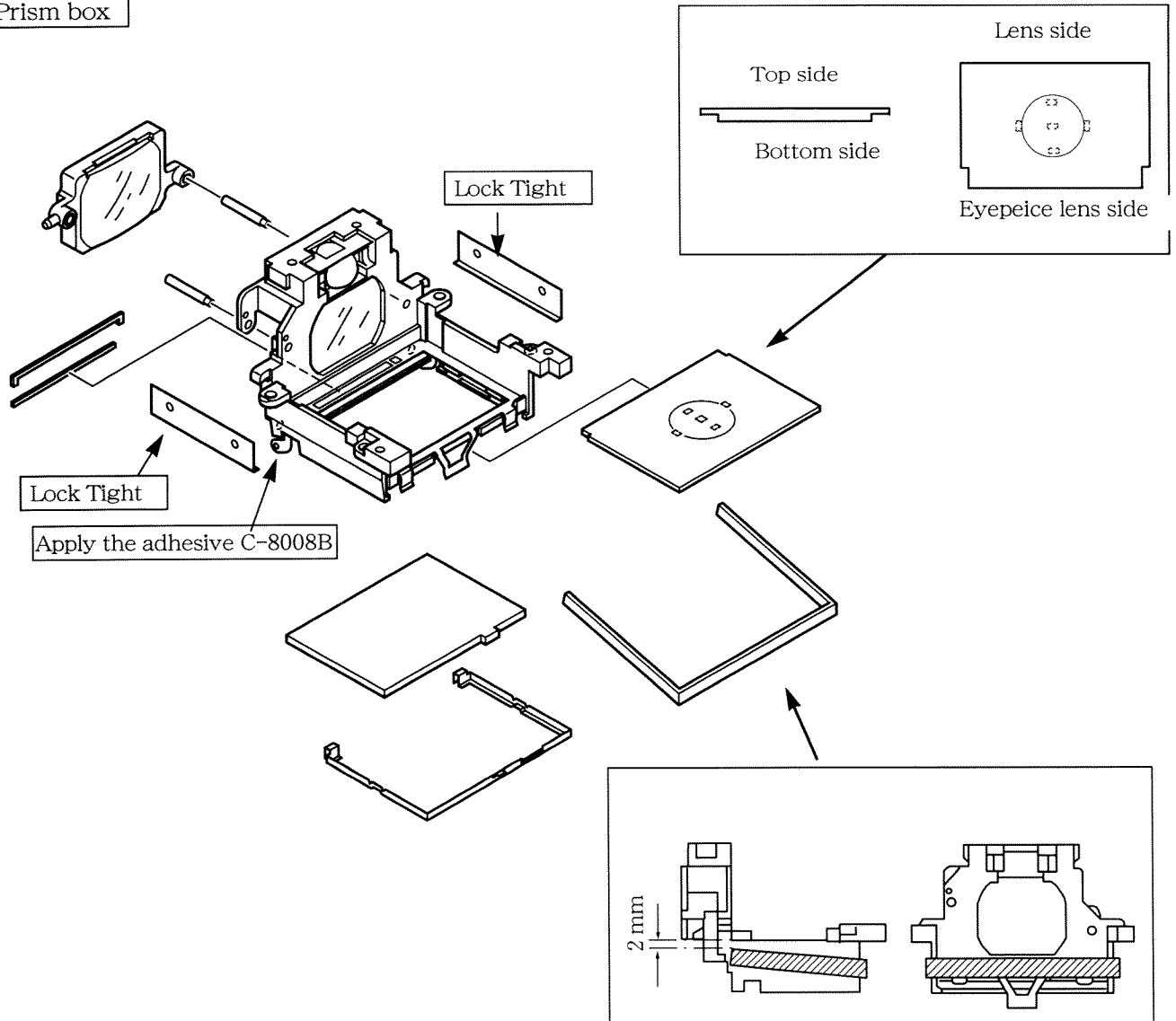
- Using the tool J18004, measure the height of aperture lever.
In the case of out-of-standard found from the measured result(s), adjust the height by rotating the eccentric pin. After adjustment, shift the mirror-up vertical lever two or three times and check the height of aperture lever.

Standard : 3.4 ± 0.1 mm

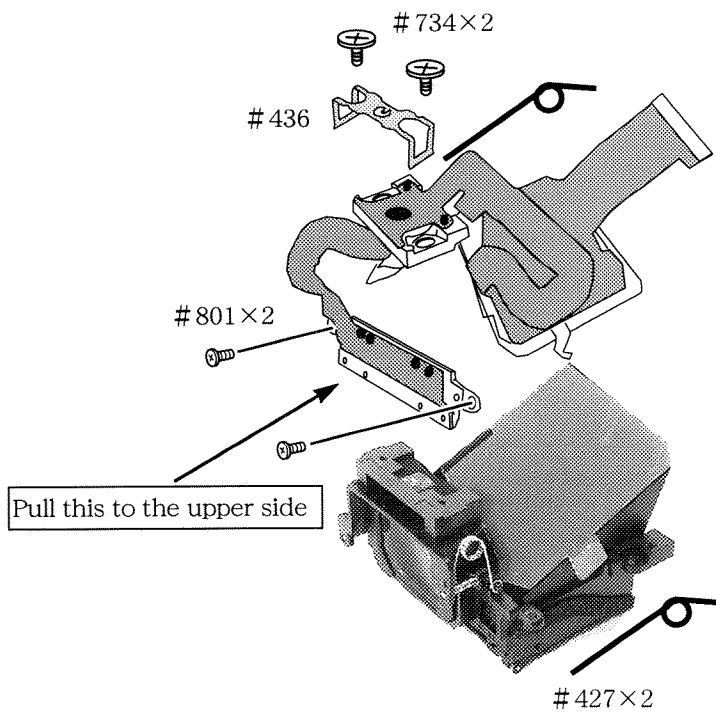
- In the situation that the solenoid adsorption is taken off from the aperture control unit, adjust the aperture reset lever eccentric pin to make a gap $\Delta 0.15$ mm or less (There should be a space) between #378 and #383 in the size of ~~0.2 to 0.29 mm~~.
- Shift the reset lever to the bayonet side and then reset the aperture control solenoid.
- Apply the grease to beneath #378.



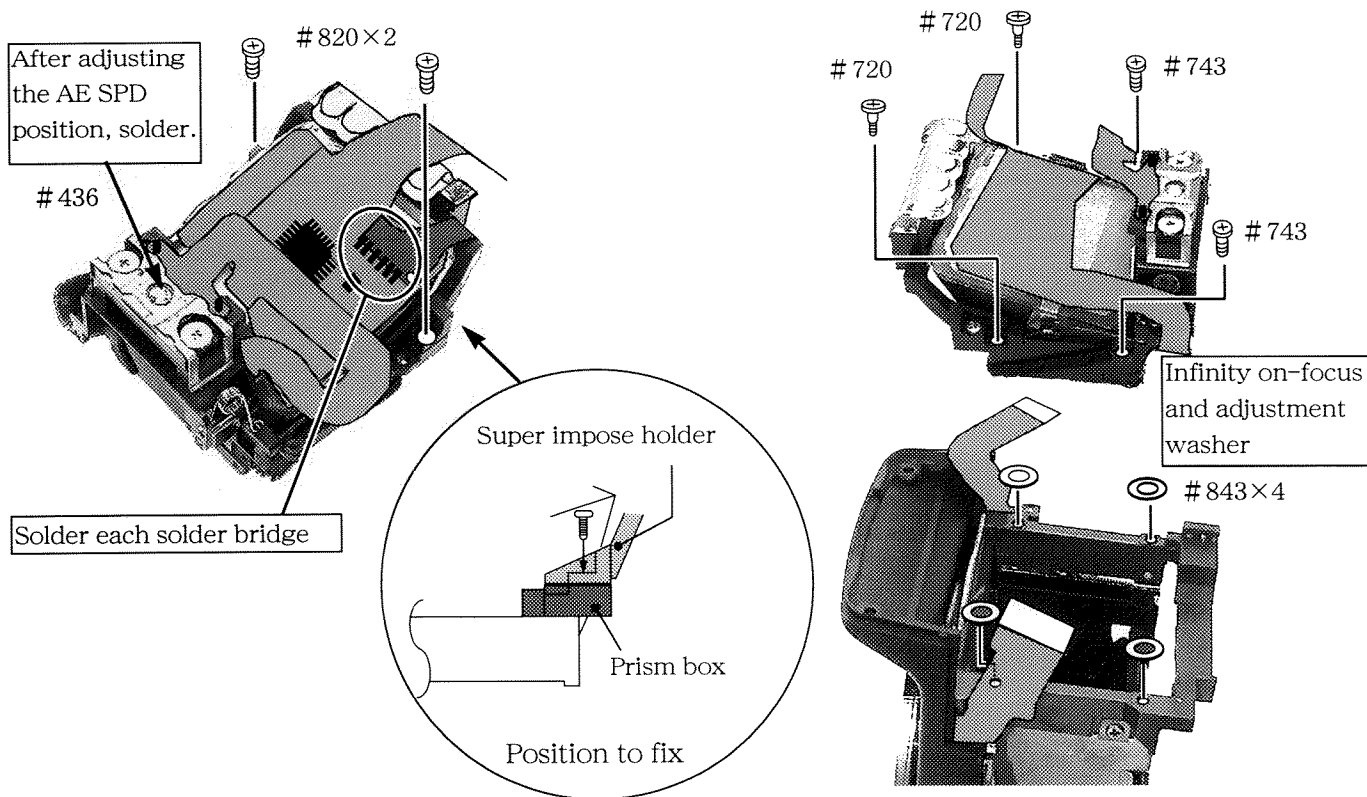
Prism box



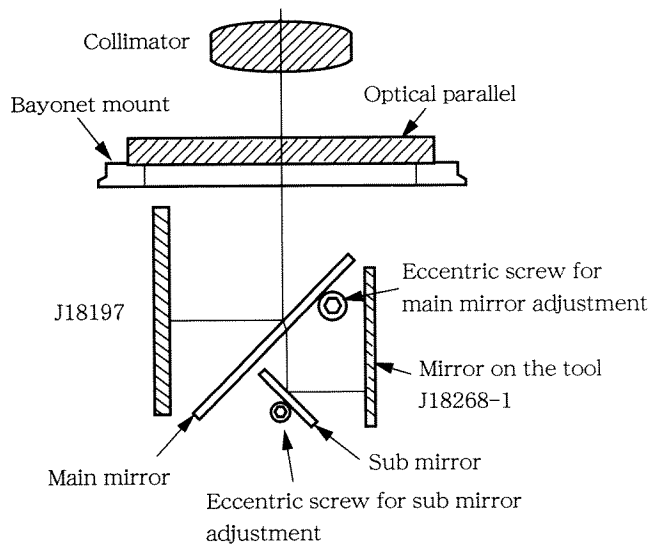
Mount and fix the in-finder display FPC / AE SPD.



Mount and fix the super impose holder.



Angle adjustment of main mirror and sub mirror to 45°



[Tools in use]

1. For adjustment of the main mirror

- ① Collimator (J19002)
- ② Reflection mirror (J18197)
- ③ Optical parallel (J18037)
- ④ Hex. key in the size of 2 mm

2. For adjustment of the sub mirror

- ① Collimator (J19002)
- ② Sub mirror angle adjustment tool (J18268-1)
- ③ Hex. key in the size of 2 mm

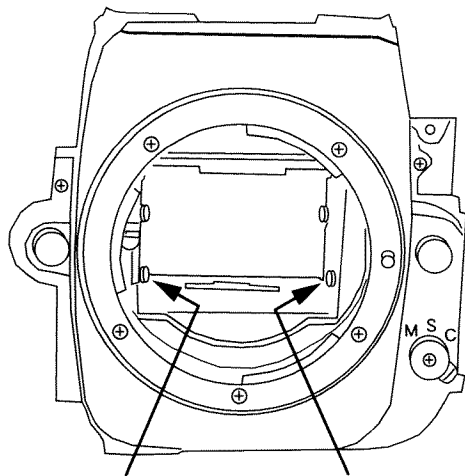
● Angle adjustment to settle 45-degree from the main mirror

Note :Adjust the accuracy of main mirror by lifting up and down the mirror two or three times before and after adjustment.

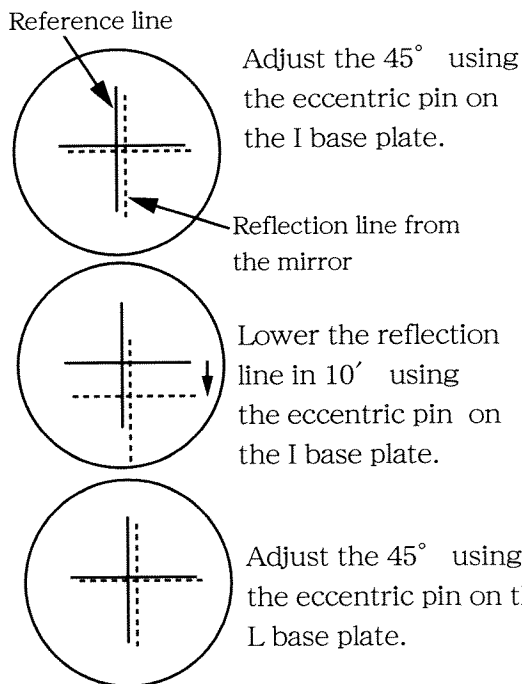
Avoid to directly touch the black colour-painted area by hand(s).

(1) Check the horizontal gap.

In case the horizontal gap size is out of standard, loosen the three screws #376 and a screw #717, and then shift the upper area of mirror box in back and forth in order for adjustment.



An eccentric pin on the I base plate An eccentric pin on the L base plate



Adjust the 45° using the eccentric pin on the I base plate.

Reflection line from the mirror

Lower the reflection line in 10' using the eccentric pin on the I base plate.

Adjust the 45° using the eccentric pin on the L base plate.

● Angle adjustment to settle 45-degree from the sub mirror

Note : Adjust the accuracy of main mirror by lifting up and down the mirror two or three times before and after adjustment.

(1) Check the vertical gap.

In the out-of-standard case, adjust the gap by driving the eccentric screw for sub mirror adjustment.

Standard

	Main mirror	Sb mirror
Horizontal gap	within $0 \pm 20'$	
Vertical gap	within $0 \pm 5'$	within $0 + 5'$
Distortion	within $\pm 8'$	

(2) Check the vertical gap.

Note : The eccentric pins for adjusting the main mirror are arranged on both the I and L base plates.

In this accord, just in case the vertical gap is out of standard, these eccentric pins shall be used for adjustment.

① Drive the eccentric pin on the L base plate.

Then, settle the mirror not to touch the eccentric pin.

② Drive the eccentric pin on the I base plate in order to adjust the vertical gap to come within the standard.

③ After the adjustment, drive the I base plate's eccentric pin in order to settle it in negative 10' position from where is settled in the above adjustment column ②.

④ Drive the eccentric pin on the L base plate in order to adjust the vertical gap to come within the standard.

⑤ Comparing to the eccentric pin on the I base plate, the eccentric pin on the L base plate is placed on 10' in negative side and it causes to create a gap against a mirror.

The gap functions to absorb a bounce from the mirror.

Adjustment for the infinity alignment

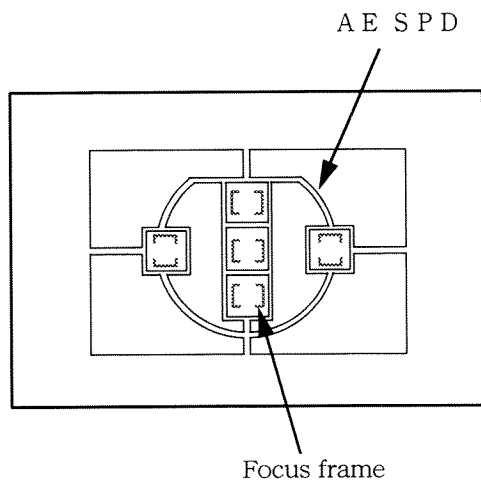
- Using the standard lens J18010, adjust the infinity mark to align within ± 0.03 mm.

How to adjust

Adjust the washer #843 for prism box.

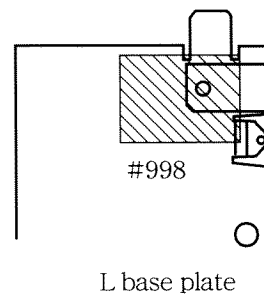
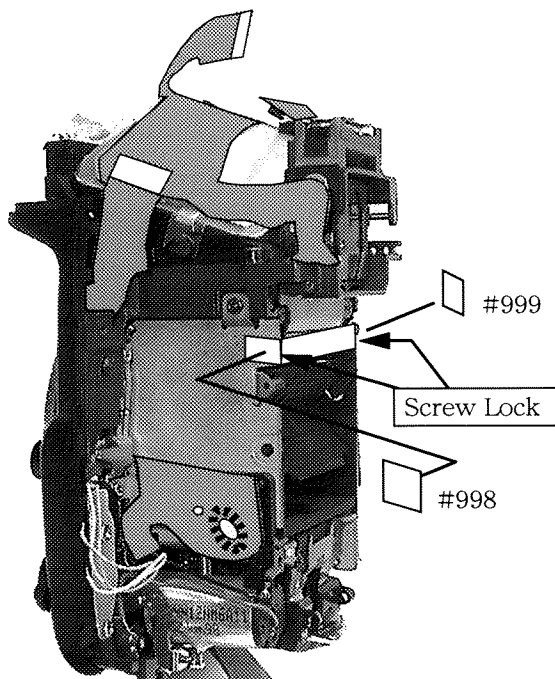
For more details, refer to the figure in the page A13.

AE SPD position adjustment

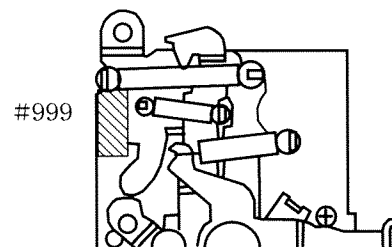


- ① Apply a high luminance light to AE SPD in order to reflect the AE SPD pattern on the main mirror.
- ② As shown in the left figure, fit the AE SPD on the focus frame.
Then, the AE SPD should be parallel to the main mirror.
- ③ After adjustment, fix the AE SPD unit by two screws #734.
For more details, refer to the figure in the page A 12.
- ④ Solder #436 on the in-finder display FPC.
For more details, refer to the figure in the page A 13.

Light baffle plate

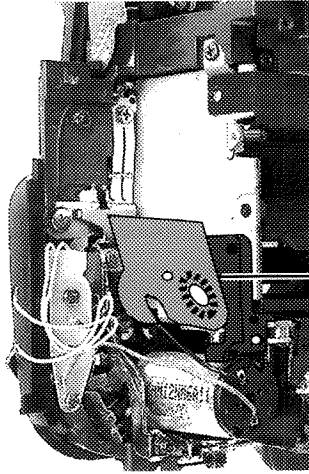


L base plate



I base plate

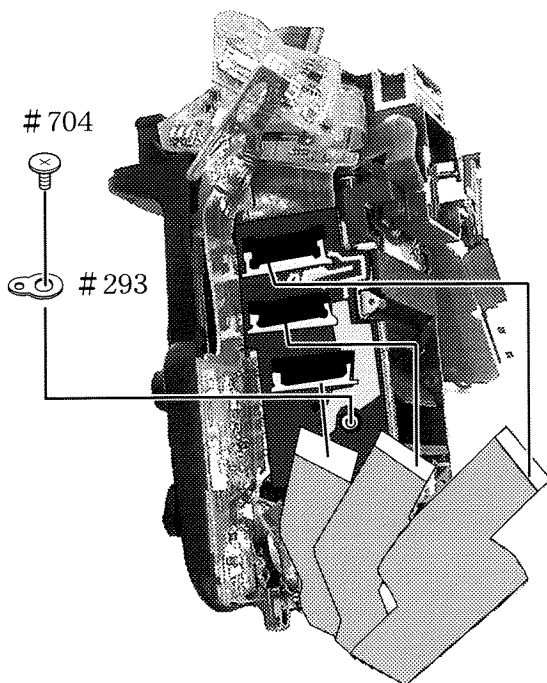
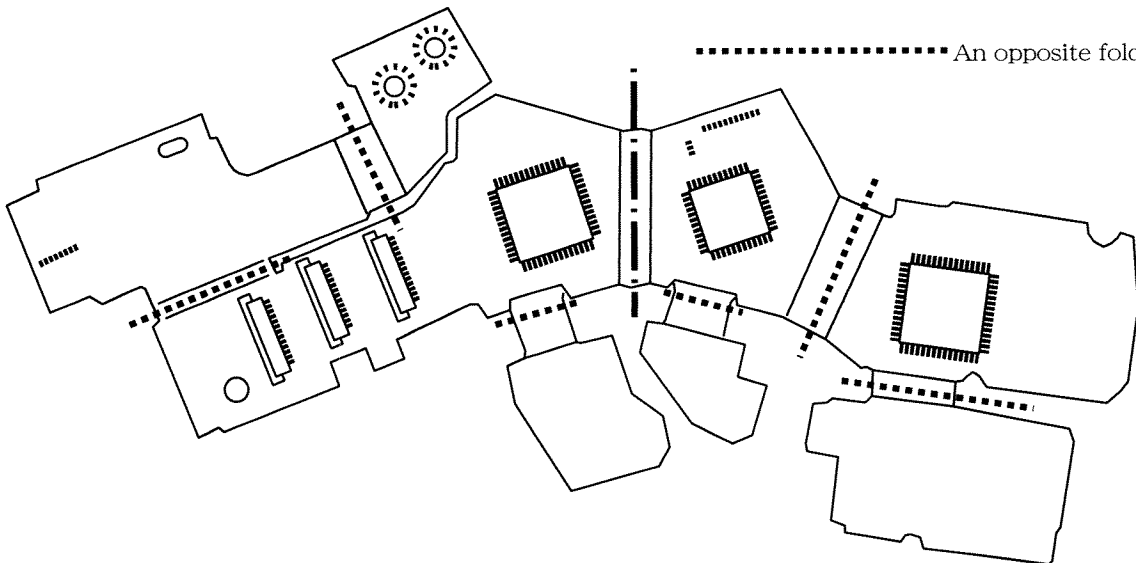
Main printed circuit board



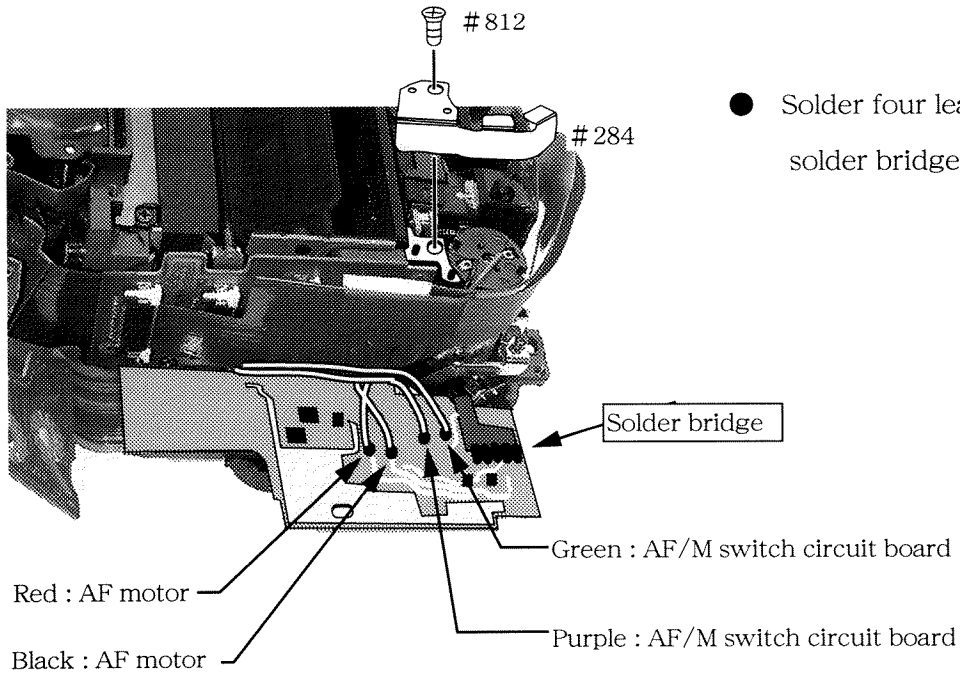
282

- Place #282 between TTL FPC and the L base plate mold.

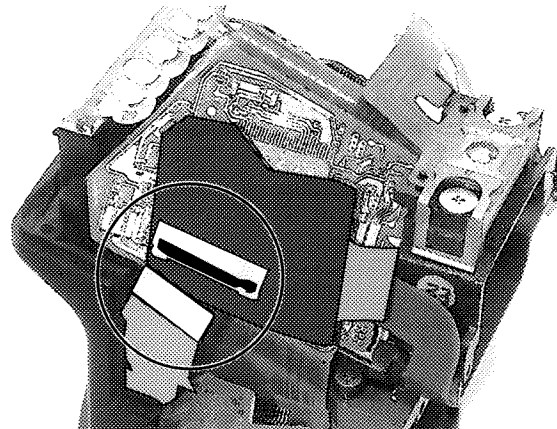
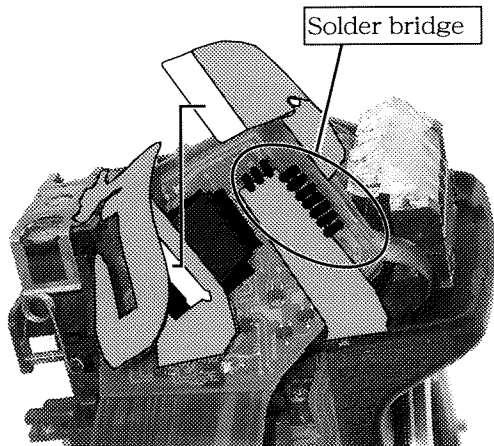
How to crease on the main PCB



- Connect three connectors.

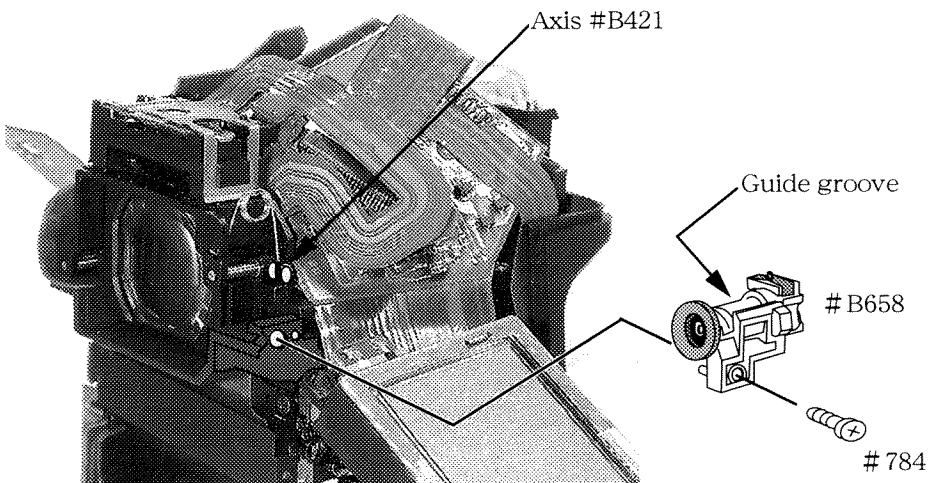


- Solder four lead wires and each solder bridge.



- Solder the solder bridge.
- Connect two connectors.

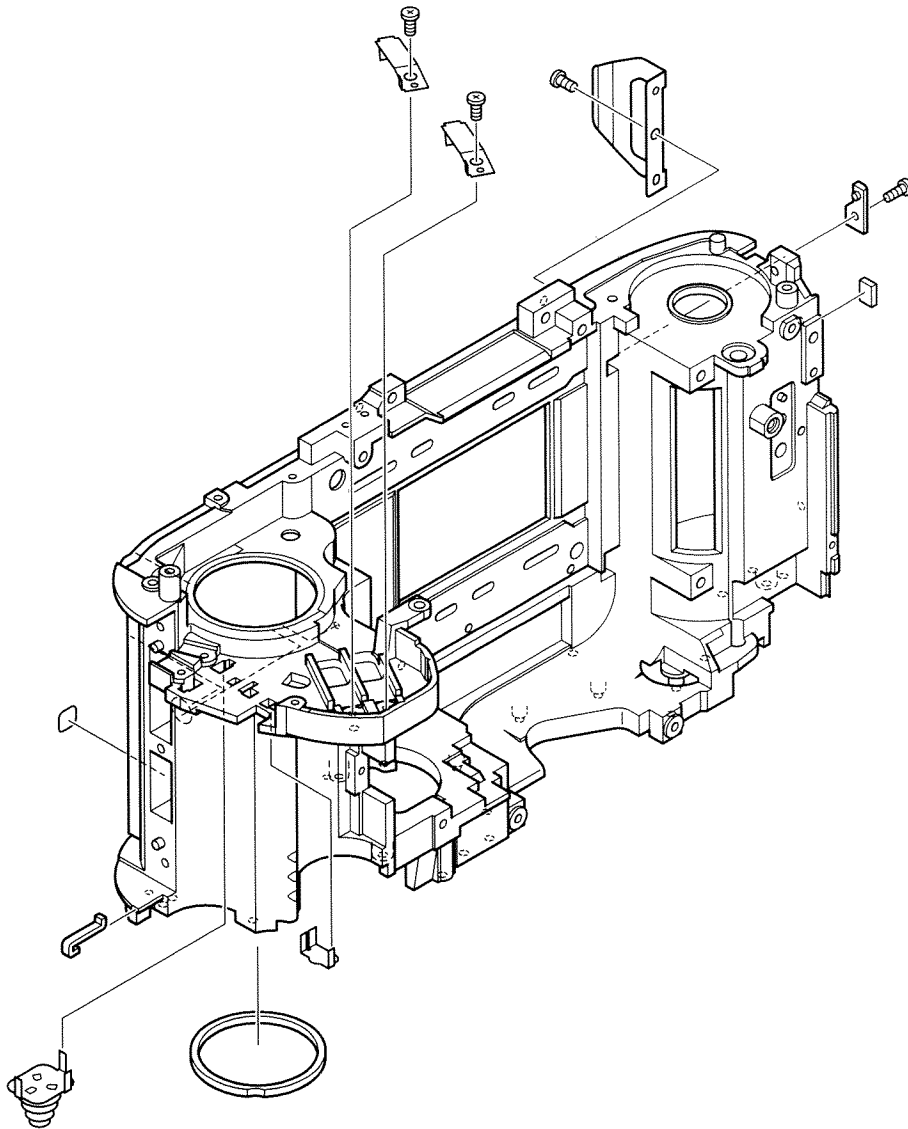
Diopter adjuster unit



- Fit the #B421 axis into the guide groove on the diopter adjuster unit #B658.

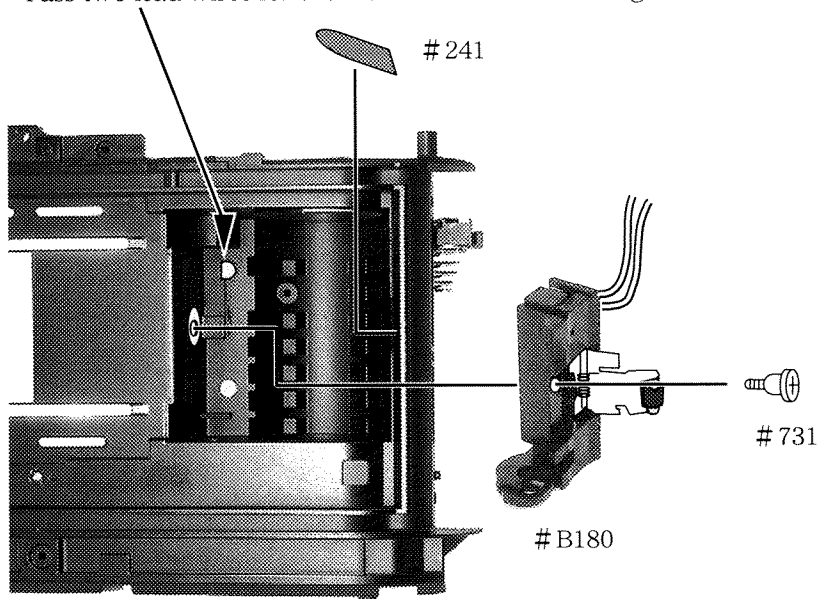
4. Rear body

Any other part(s)

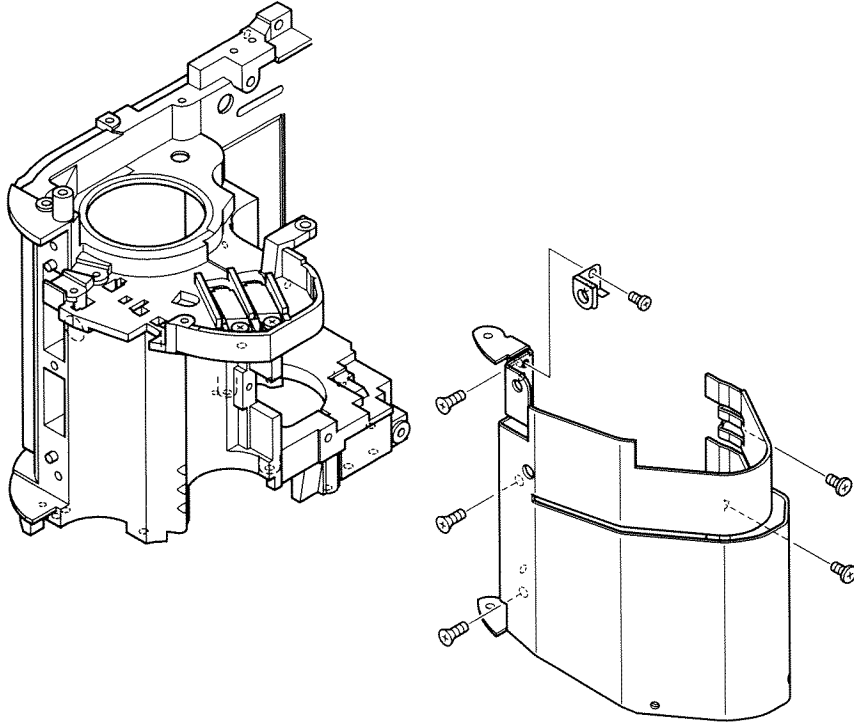


F detection switch

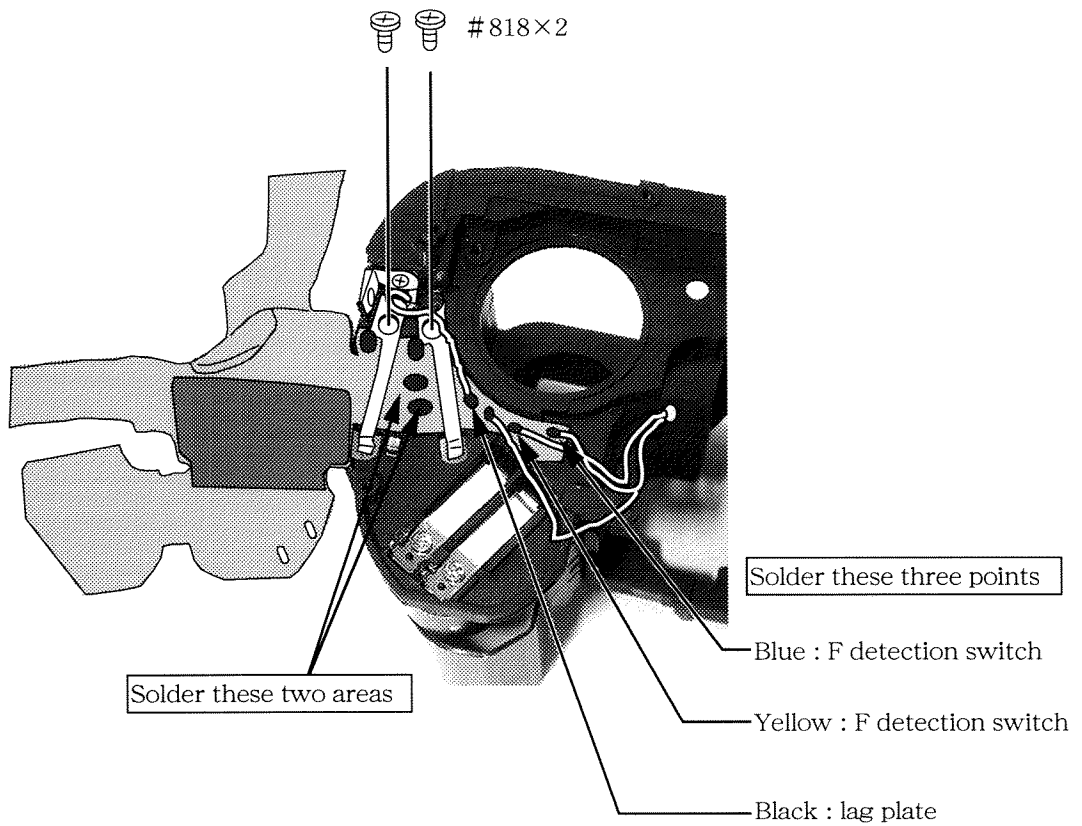
Pass two lead wires for the F detection switch through this hole.

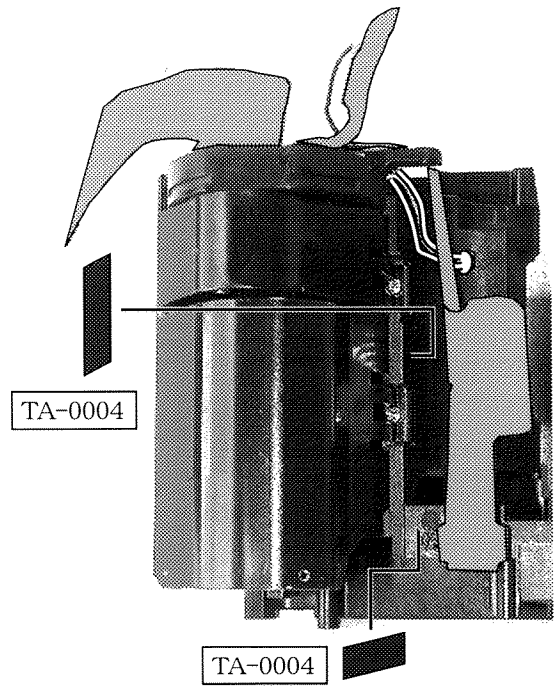
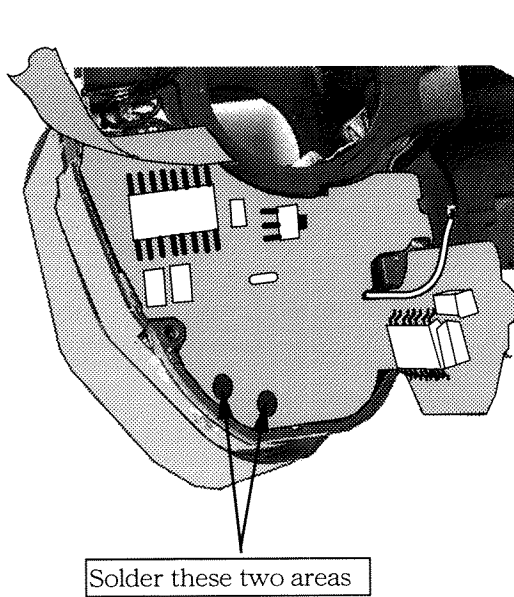


Grip

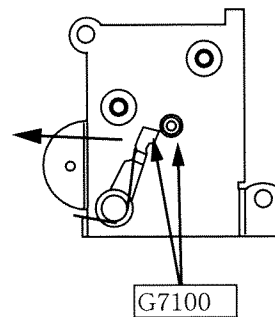
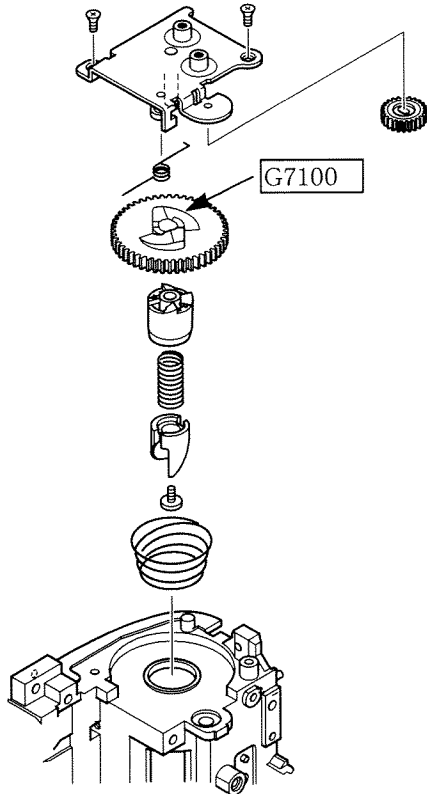


Power FPC



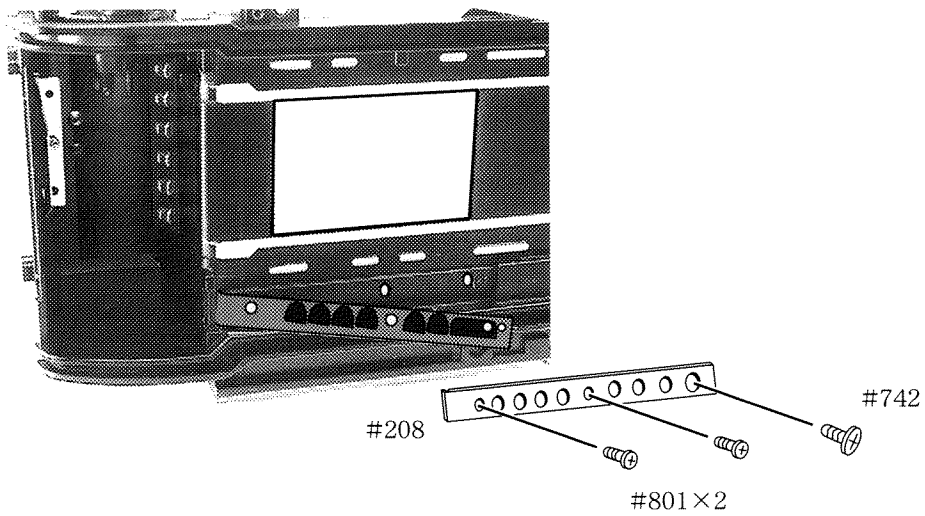
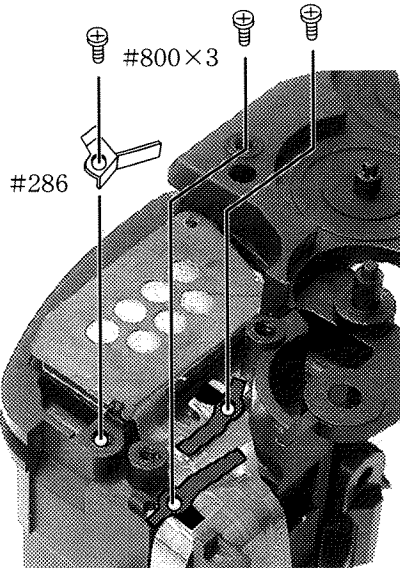
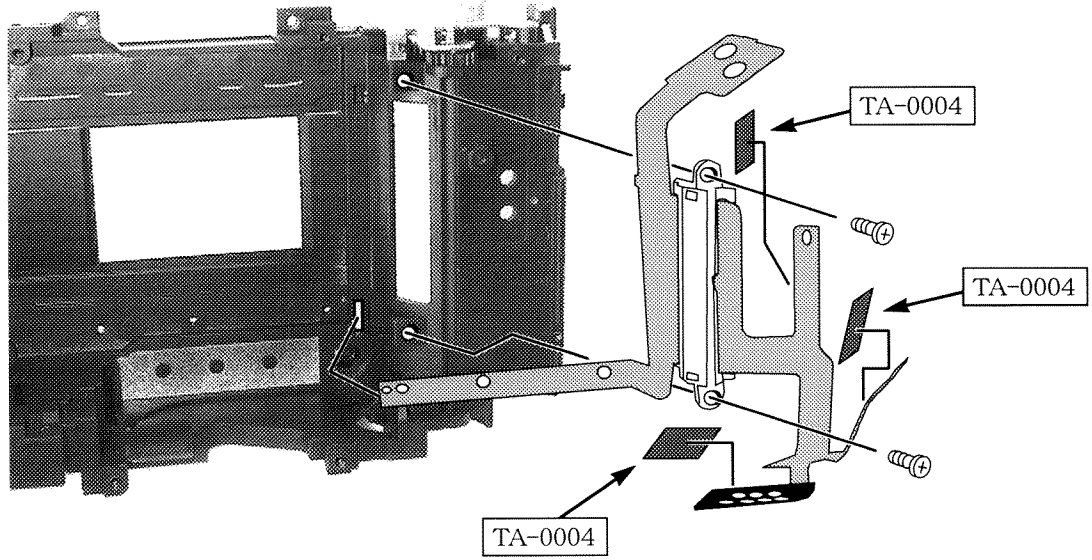


Rewind unit

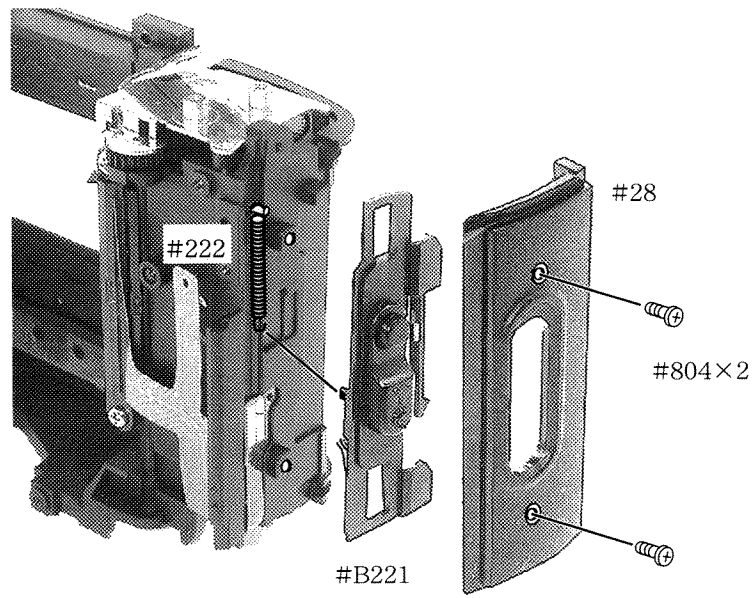


- Maintain to set the clutch lever free in the arrow direction, and simultaneously mount and fix the clutch gear.

DX/DB F P C

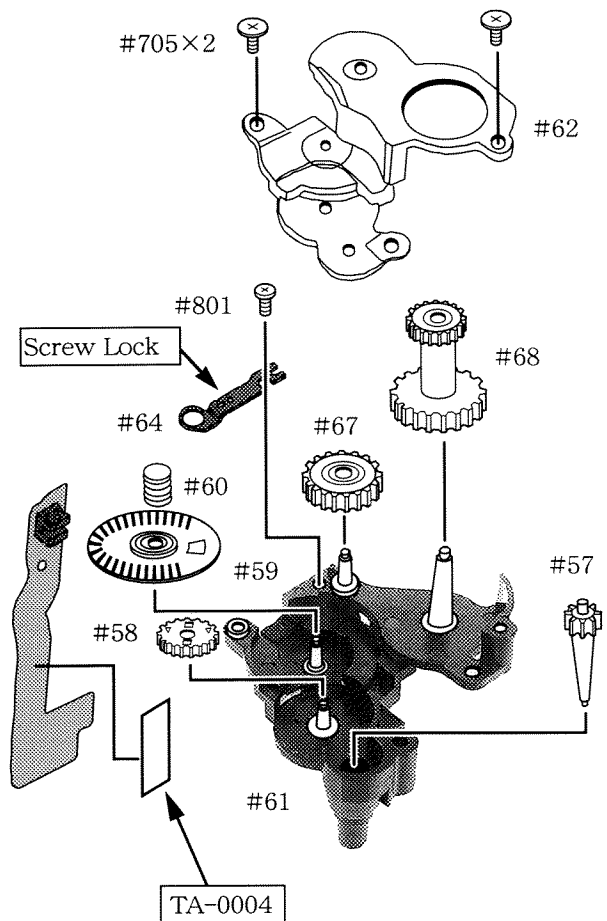


Rear cover open / close key

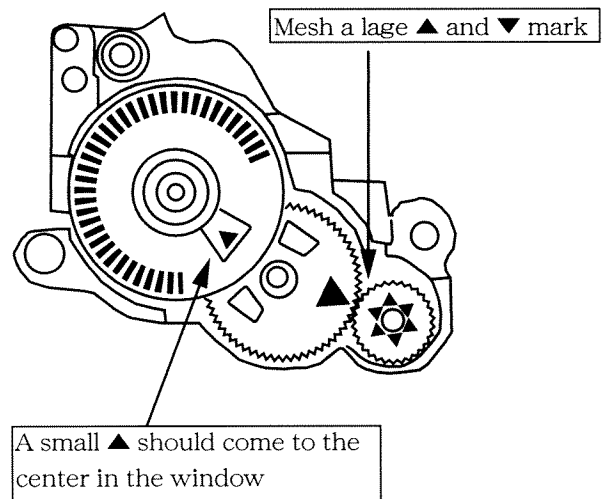


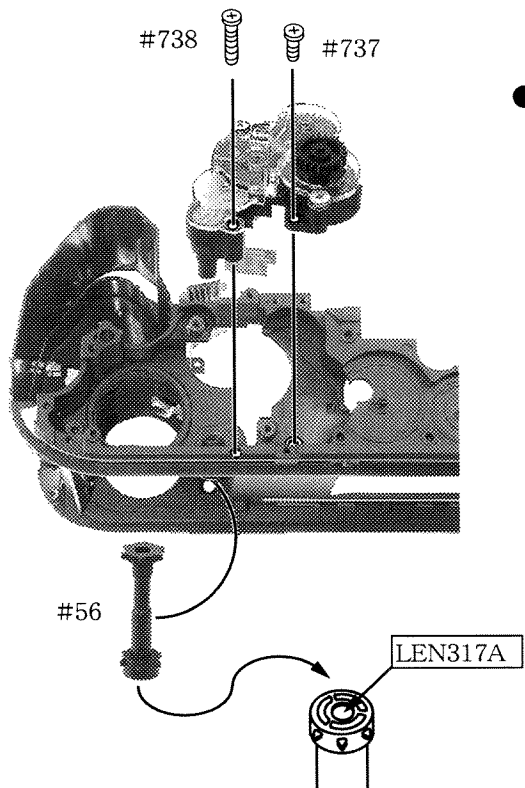
Film advance detection unit, sprocket

Apply the grease G7100 on to each gear's cog



Appropriate gearing

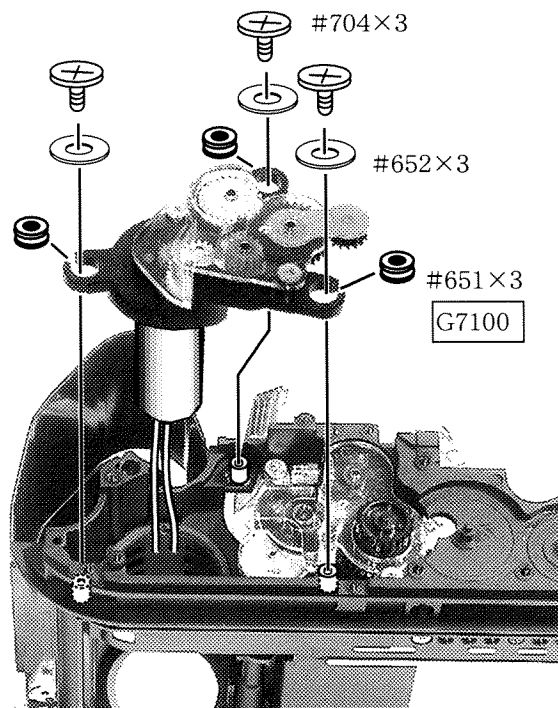
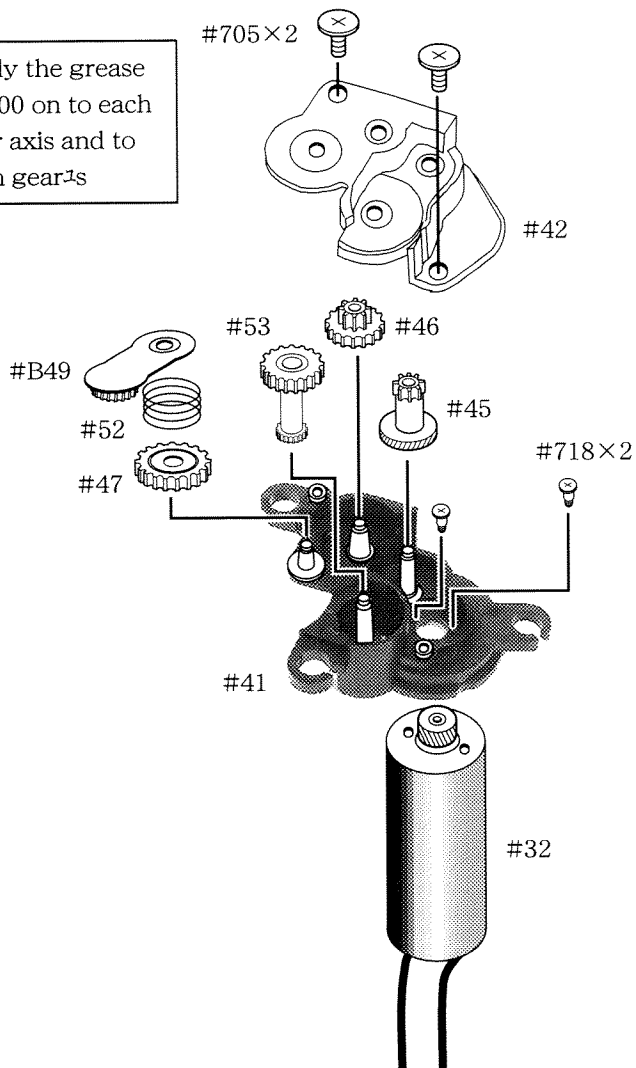




- Along with the driving of sprocket #56 after fixing it, the gear on the film advance detection unit should drive simultaneously.

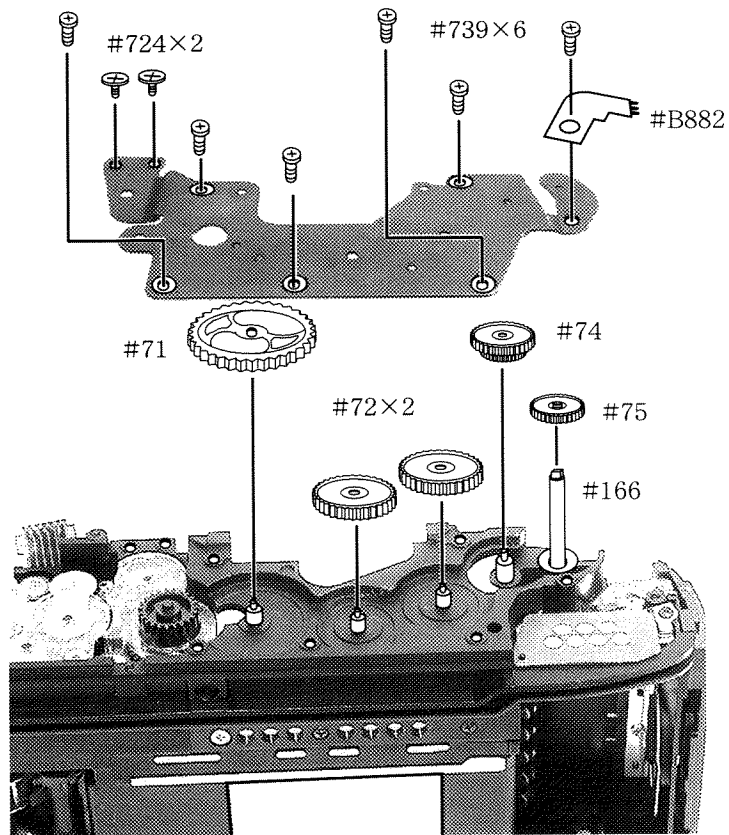
Film advance unit

Apply the grease G7100 on to each gear axis and to each gears



- Set the film holder roller inside the spool chamber and simultaneously mount and fix the clutch gear.

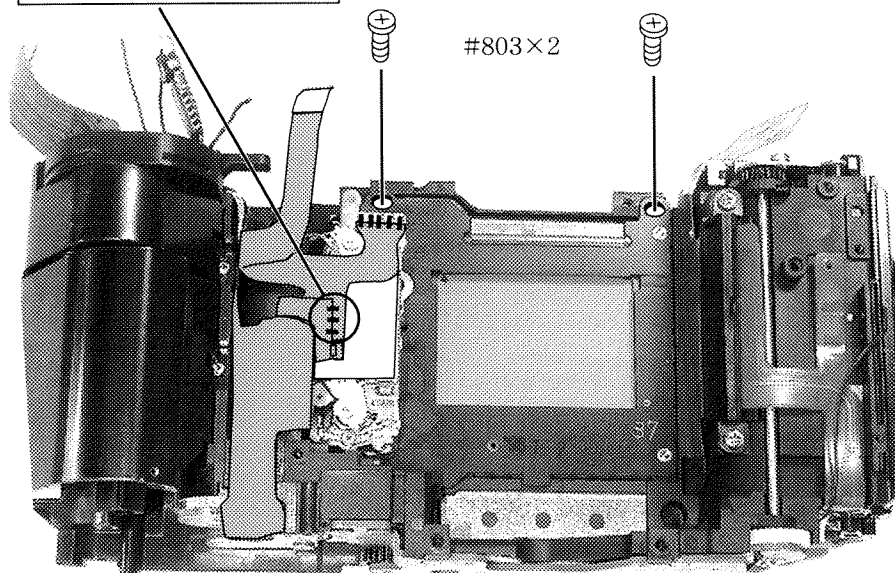
Bottom base plate



Apply the gear G7100 on to each gear axis, each gear's cog and both ends of #166

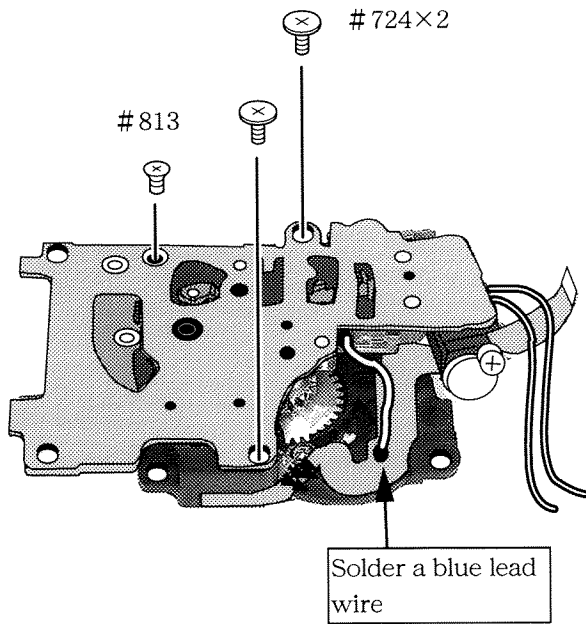
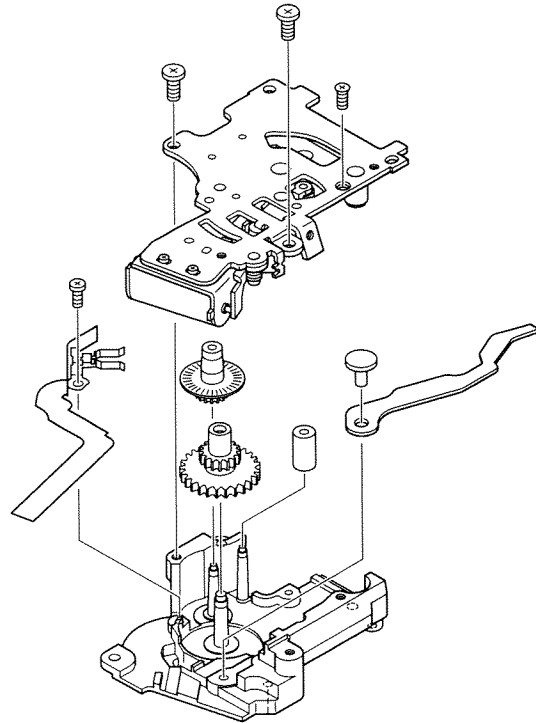
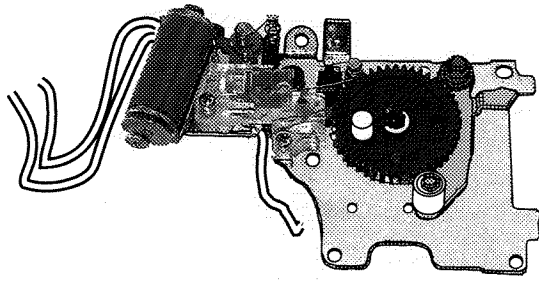
Shutter unit

Solder each solder bridge

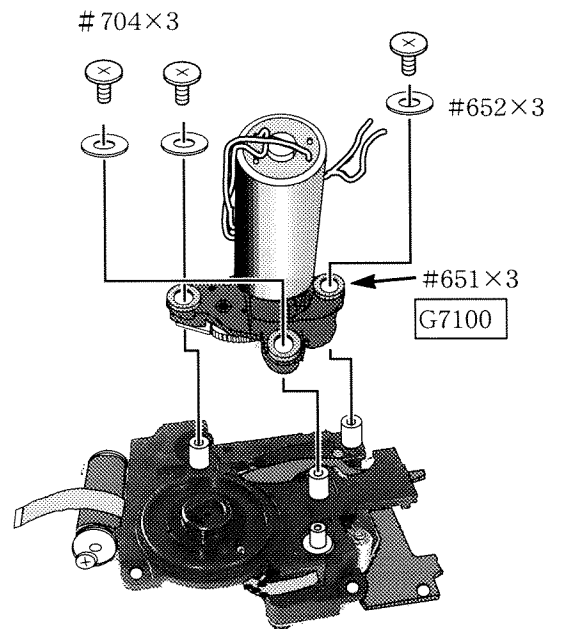
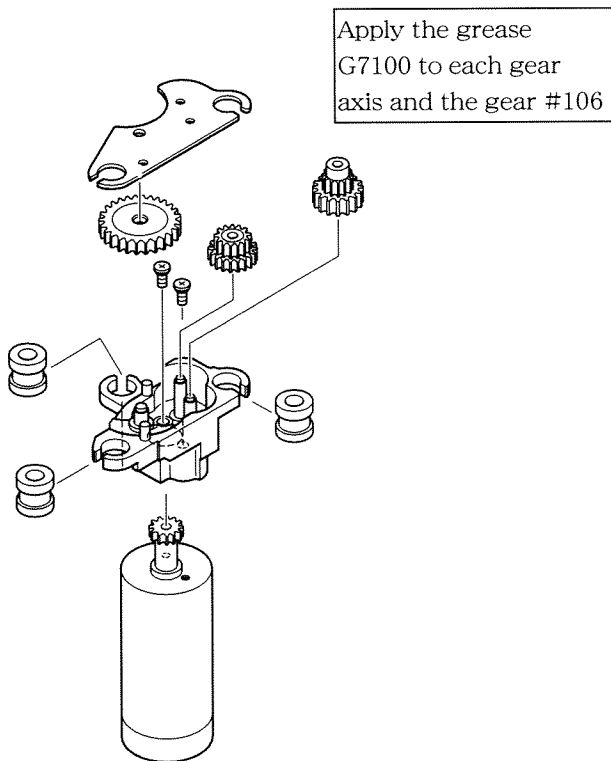


Sequence unit, spool

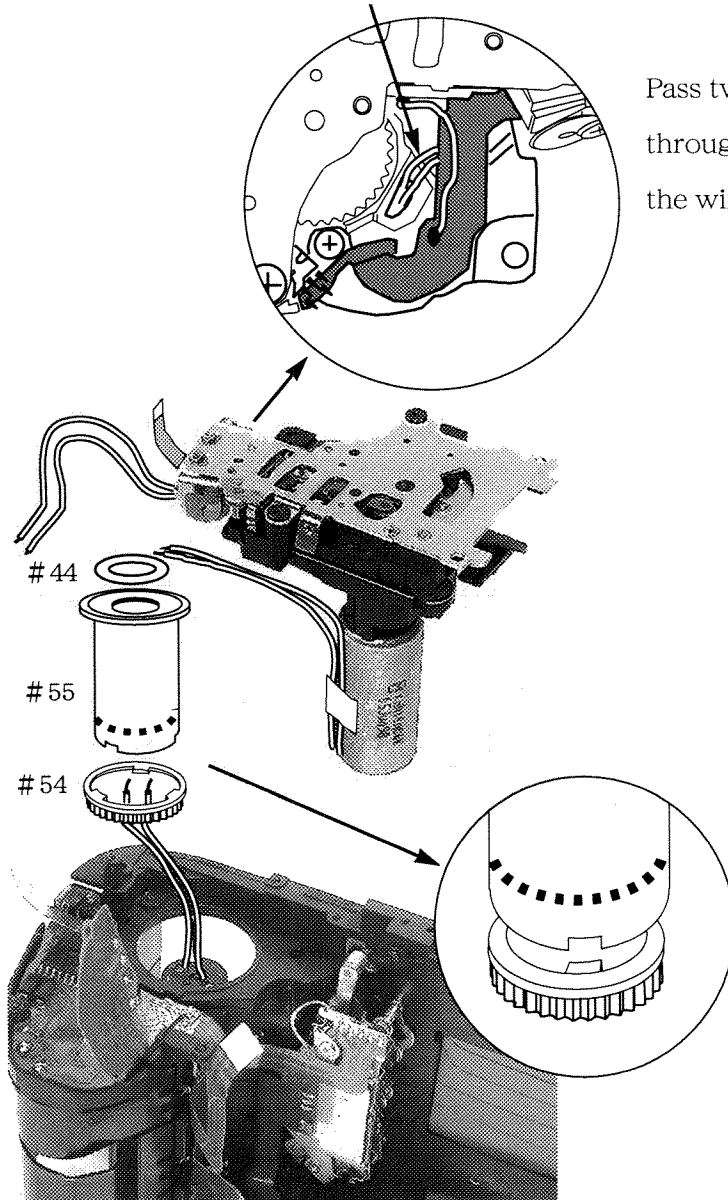
The start position on the upper SQ unit



- Mount and fix the upper SQ unit on the lower SQ unit.

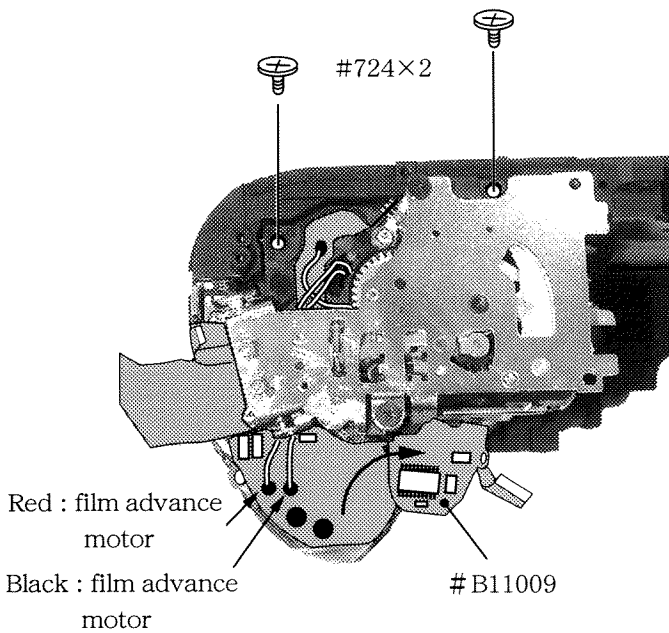


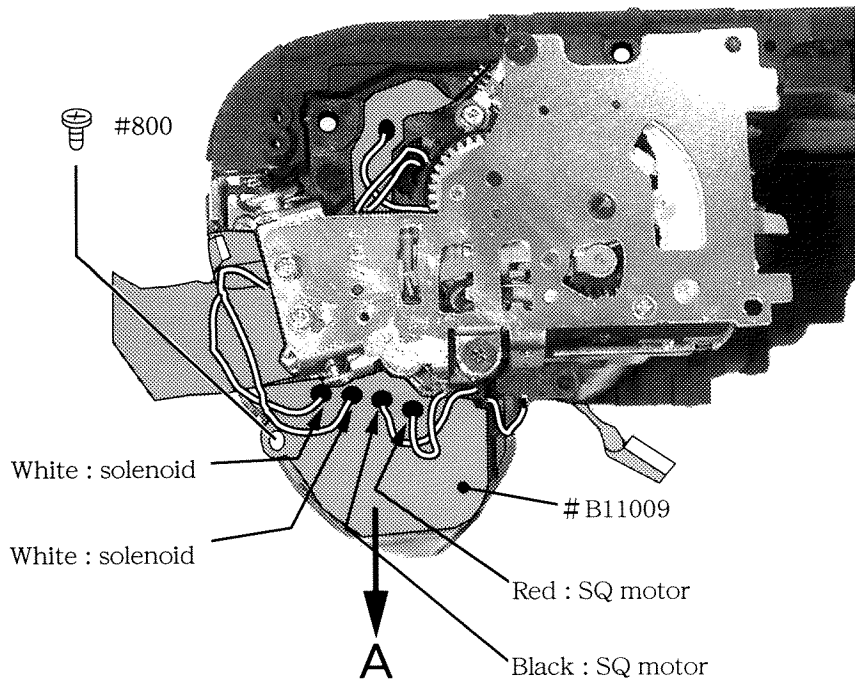
Where the lead wires for film advance motor should go



Pass two lead wires for the film advance motor through beneath the sequence FPC and bring the wires to the front side of sequence unit.

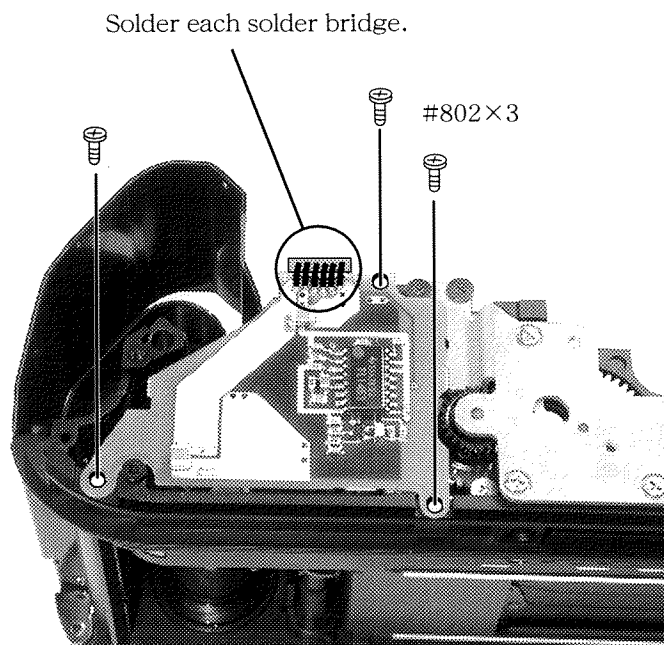
- Lift up the power FPC #B11009 in the arrow direction.
- Solder two lead wires.
- Return the power FPC #B11009 to the original position.



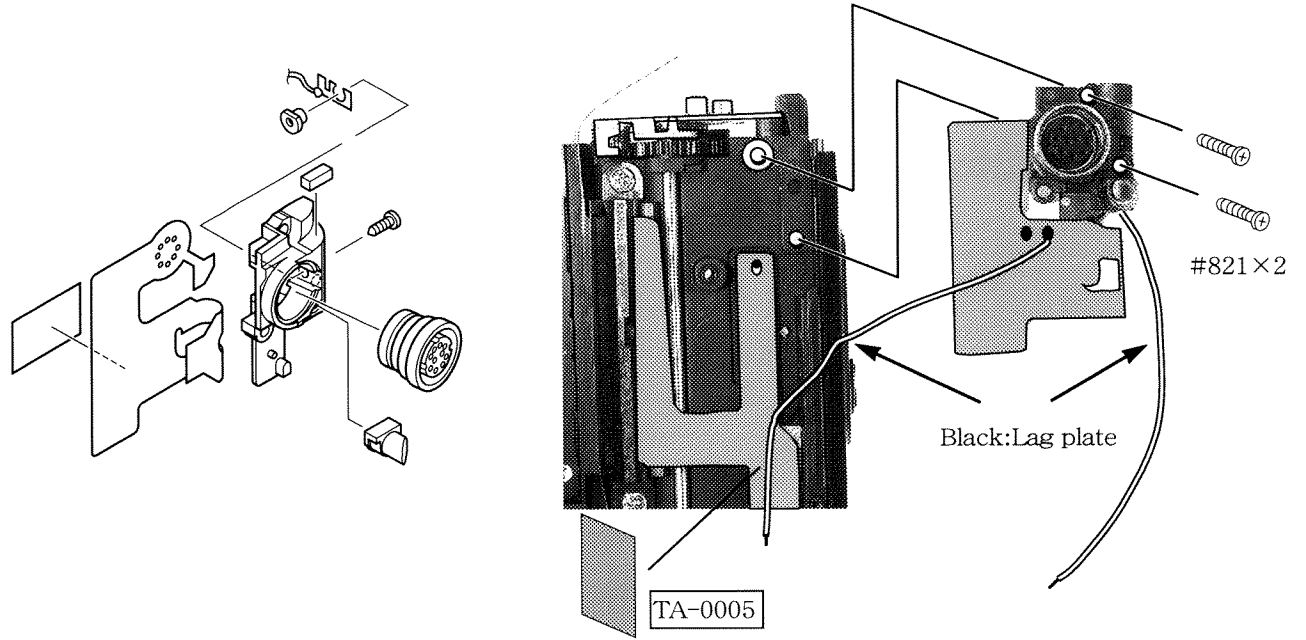


- Slightly pull the power FPC #B11009 in the arrow direction "A" and then solder four lead wires.
- Drive and fix the screw #800.
- Place any extra lead wire(s) to beneath the solenoid.

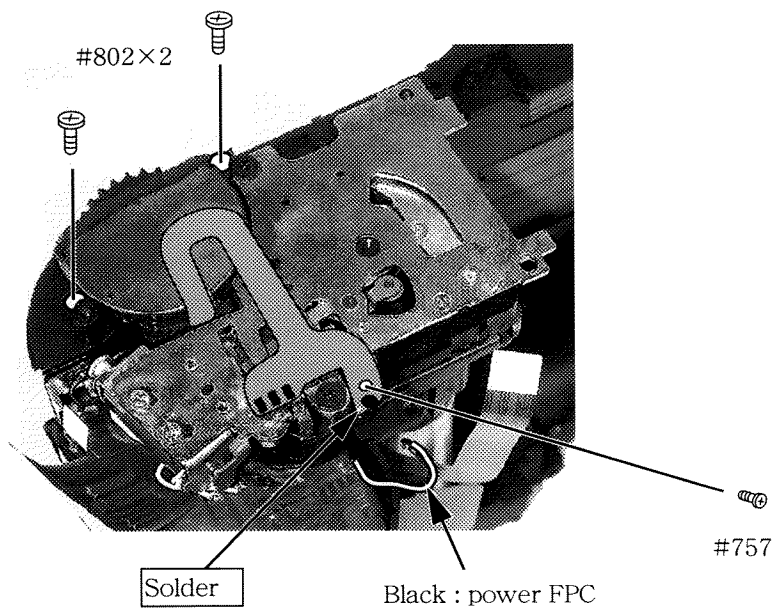
DC / DC circuit board



Remote terminal

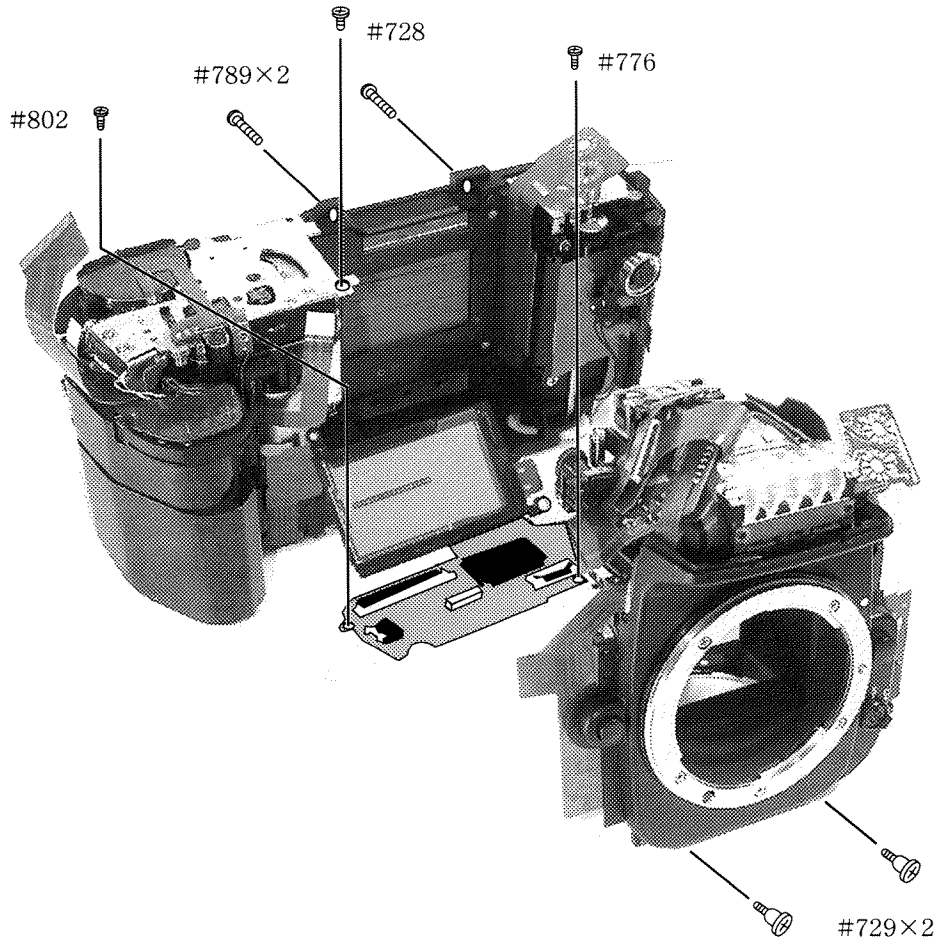


Rear C/D unit

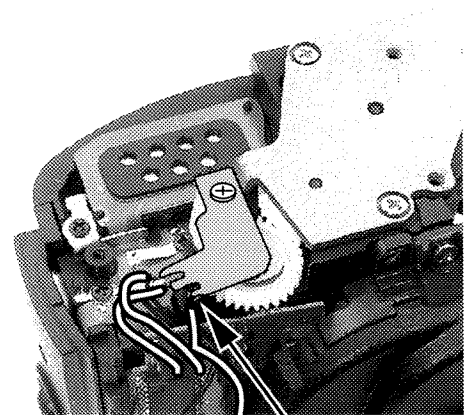
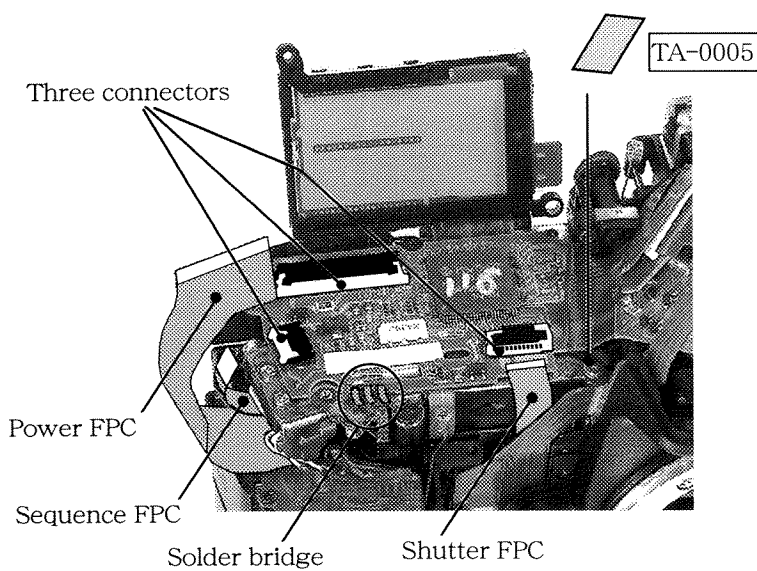


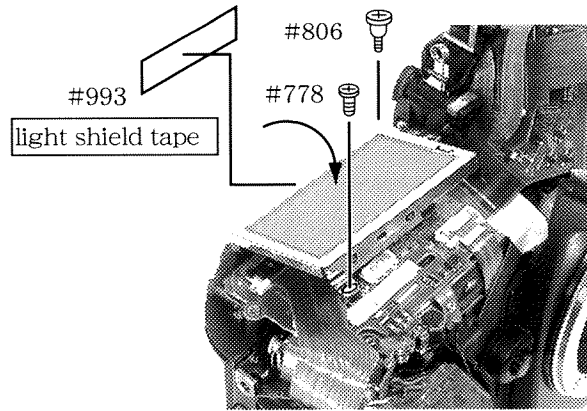
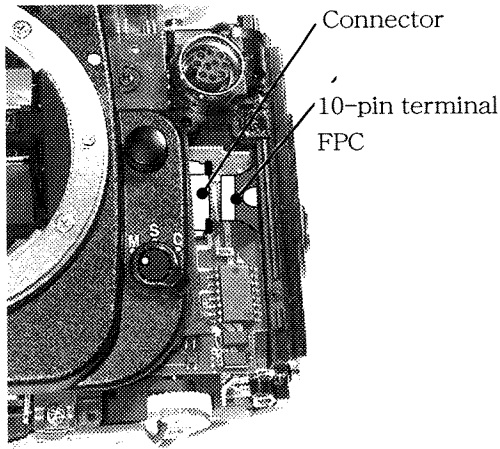
5. Mounting and fixing the front body on to the rear body

Fixing the front body to the rear body

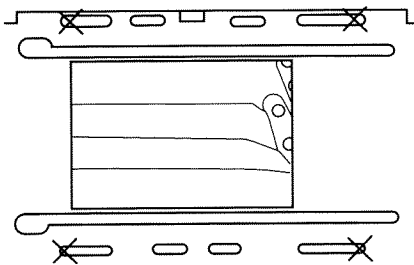


Where to connect the connectors / where to solder the solder bridge





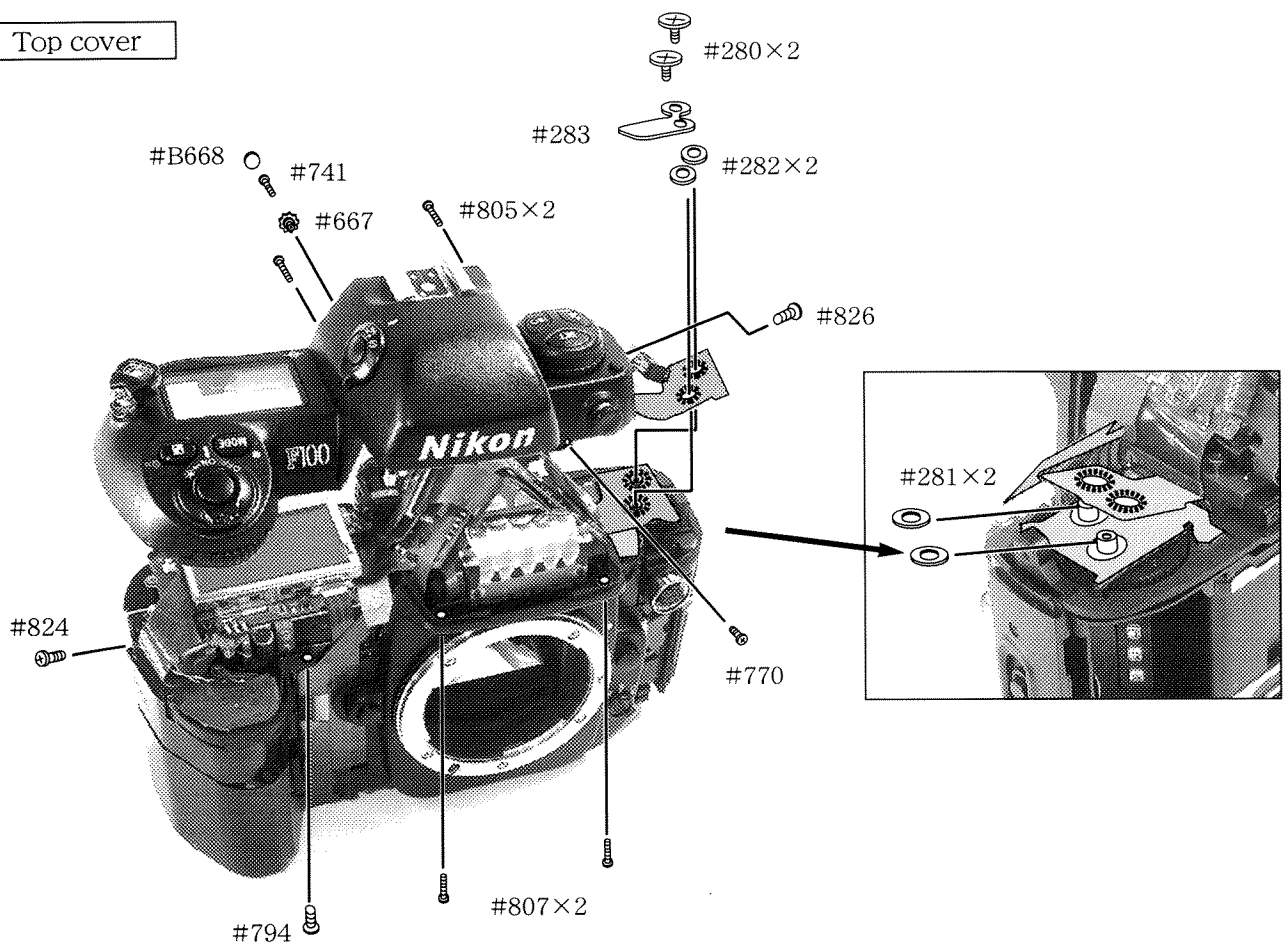
Adjustment for the bodyback



- Measure from the bayonet surface to the external rail.
The X- marked positions are where to be measured.
**Standard : 46.67 ± 0.02 mm / Tolerance for flatness :
within 0.02 mm**
- In any out-of-standard case(s), place the washer between the rear body and the front body and then adjust it.

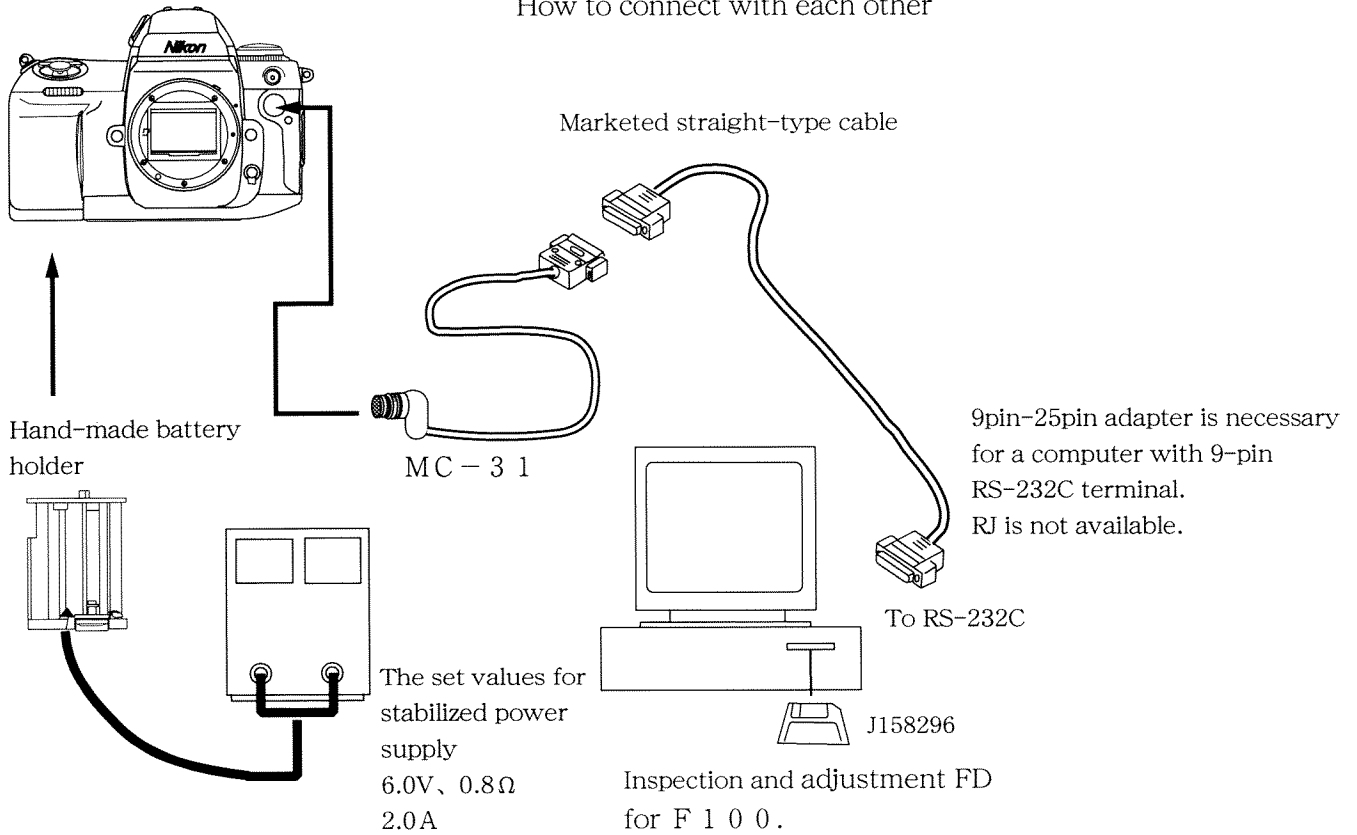
6. On the exterior

Top cover



Adjustment through PC

How to connect with each other



Conduct each adjustment in accordance with the adjustment software instructions on PC screen.

1. Adjustment for temperature detection voltage
2. AE adjustment
3. Inspection for aperture mode
4. M1 / 8000 adjustment
5. TTL adjustment

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

6. Battery check adjustment

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 4.7V	⑤ 5.1V
	② 4.5V	④ 4.7V
blinks	③ 4.3V	

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
- ④ CCD output

[Tools 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
- ② AF adjustment stand J15259
- ③ Z lens holder J15280, or position conversion adapter J15271 for tripod socket
- ④ AF chart J18237 for F5
- 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

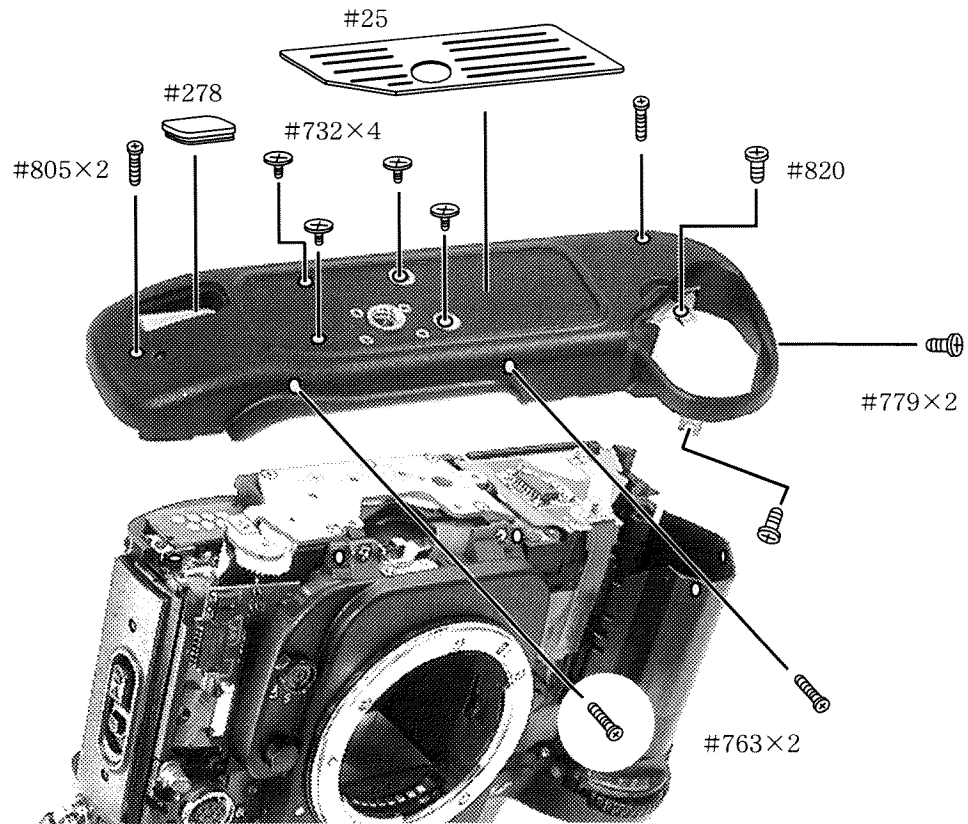
4. For adjustment of lark

The whole tool used for the check of AF accuracy just as mentioned above

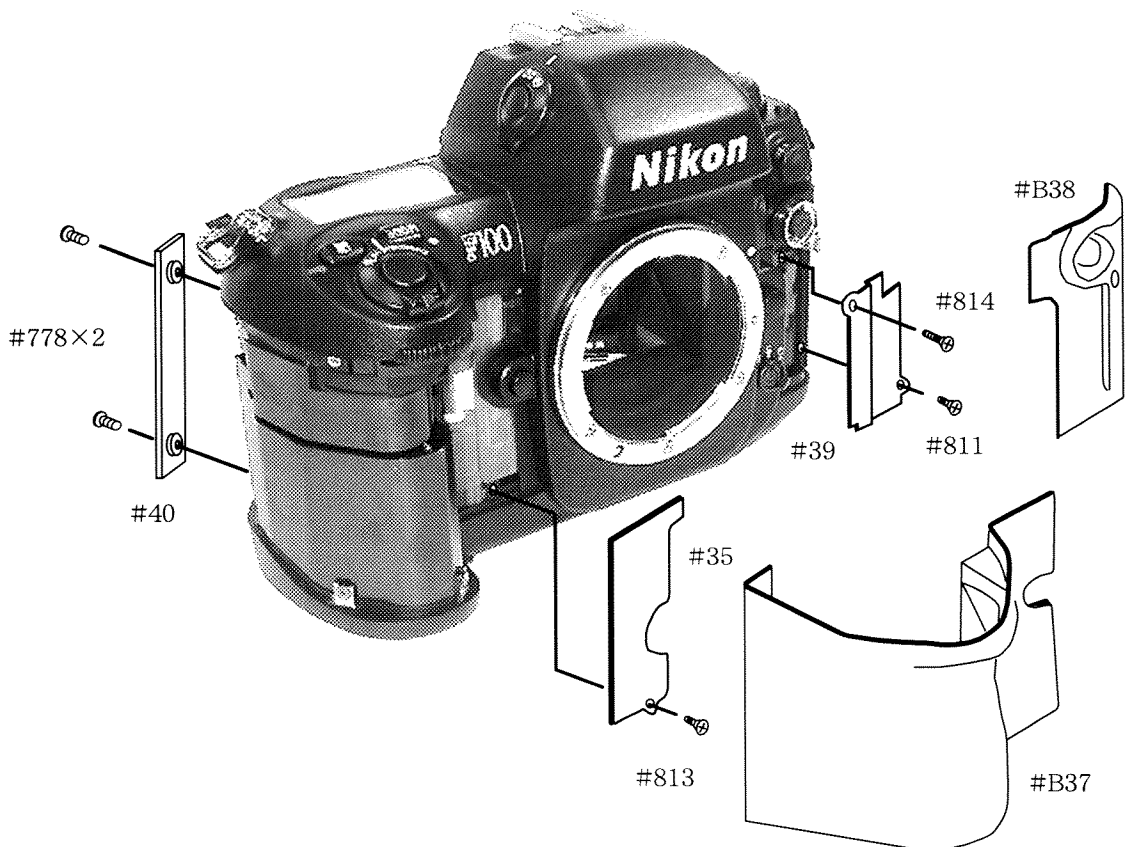
5. For adjustment of CCD output

AF 50/1.4S lens

Bottom cover



Grip rubber, rewind-sided rubber, cover

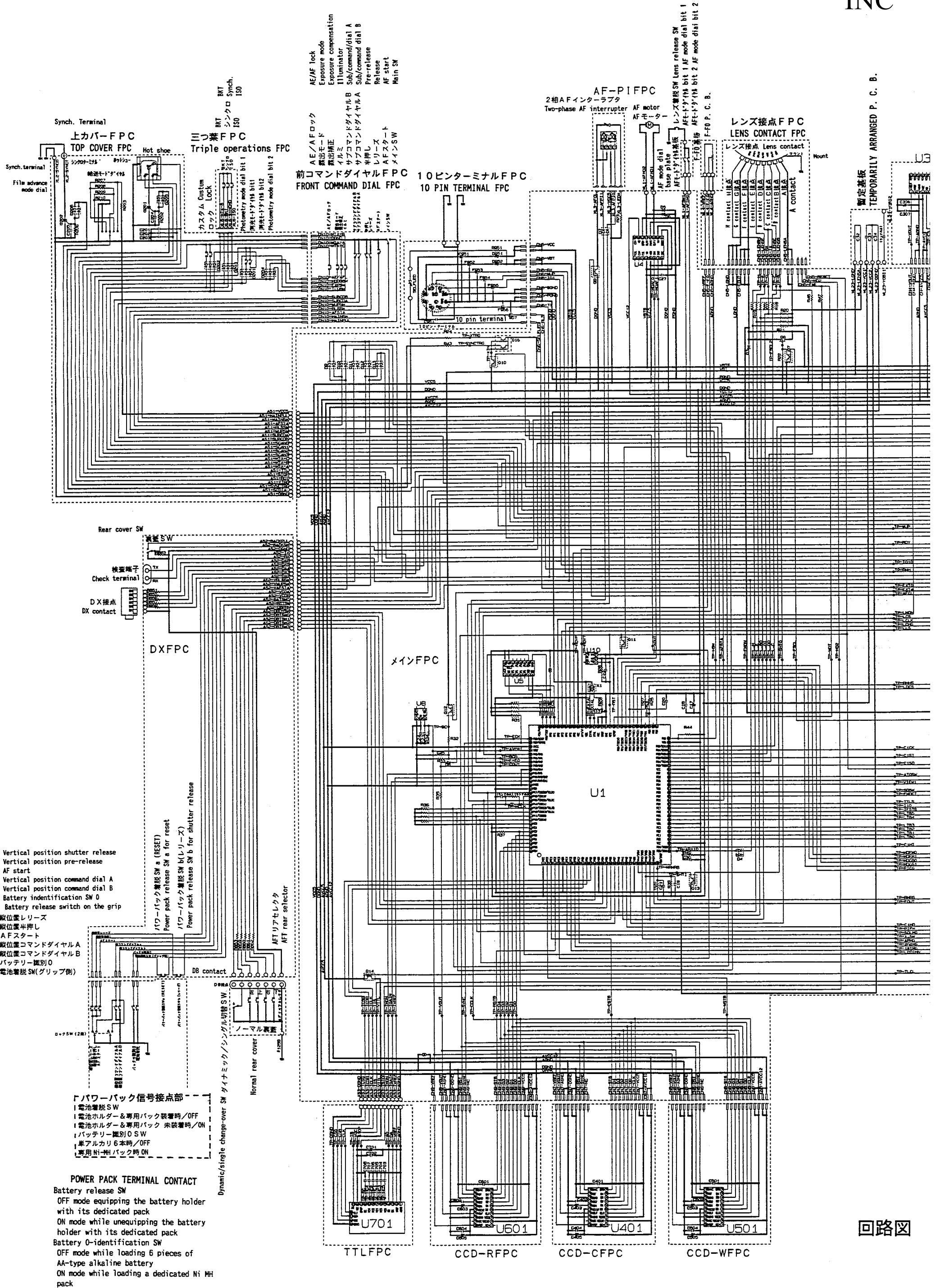


Adjustment through PC operation required at replacement of part(s)

Items of adjustment Parts replaced	Start from the adjustment for temp. detection voltage	AE accuracy	Aper- ture accu- racy	M 1/8000	TTL accu- racy	BC vol- tage	AF accu- racy
Shutter unit				○			
Main PCB unit	○	○	○	○	○	○	○
AF base plate unit							○
TTL SPD unit	○				○		○
DC/DC circuit board						○	

Electric circuit

WIRING FIGURE	E 1
CIRCUIT DIAGRAM	E 2
MAIN P. C. B.	E 3 ~ E 6
TOP COVER FPC	E 7 ~ E 9
T T L FPC	E 1 0 ~ E 1 2
SEQUENCE FPC	E 1 3 ~ E 1 4
POWER FPC	E 1 5 ~ E 1 7
APERTURE FPC	E 1 8 ~ E 2 1
SHUTTER FPC	E 2 2
DX/DB FPC	E 2 3 ~ E 2 5
FILM ADVANCE PI FPC	E 2 6 ~ E 2 7
LENS CONTACT FPC	E 2 8
A F - P I FPC	E 2 9
TRIPLE OPERATIONS FPC	E 3 0
10 PIN TERMINAL FPC	E 3 1 ~ E 3 3
S · I FPC	E 3 4
REAR COVER FPC	E 3 5
REAR COMMAND DIAL FPC	E 3 6
FRONT COMMAND DIAL FPC	E 3 7
METERING/IN LCD FPC	E 3 8 ~ E 3 9



Synch. Terminal
上カバー FPC
TOP COVER FPC
Hot shoe
シンクロ端子
BKT
シンクロ
ISO

三つ割 FPC
Triple operations FPC
カスタム
ロック
Photometry mode dial bit 1
測光モードダイヤル bit 1
測光モードダイヤル bit 2
測光モードダイヤル bit 2

AE/AFロック
露出モード
露出補正
イルミネ
サブコマンドダイヤル A
サブコマンドダイヤル B
半押し
リリース
AFスタート
メイン SW

前コマンドダイヤル FPC
FRONT COMMAND DIAL FPC
10ピンターミナル FPC
10 PIN TERMINAL FPC

AF-PIFPC
2相AFインターラプタ
Two-phase AF interrupter
AFモーター
AFモーター

レンズ接触 FPC
LENS CONTACT FPC
レンズ接触
Lens contact
Mount

暫定基板
TEMPORARILY ARRANGED P. C. B.

DXFPC
DX contact

メイン FPC
MAIN FPC

U1

U701
U601
U401
U501

TTLFPC
CCD-RFPC
CCD-CFPC
CCD-WFPC

縦位置シャッターリリース
Vertical position shutter release
縦位置シャッター半押し
Vertical position pre-release
AFスタート
AF start
縦位置コマンドダイヤル A
Vertical position command dial A
縦位置コマンドダイヤル B
Vertical position command dial B
バッテリー識別 SW 0
Battery identification SW 0
バッテリー識別 SW 0
Battery release switch on the grip

縦位置リリース
縦位置半押し
AFスタート
縦位置コマンドダイヤル A
縦位置コマンドダイヤル B
バッテリー識別 SW 0
電池着脱 SW (グリップ側)

Power pack release SW a (RESET)
Power pack release SW a for reset
Power pack release SW b (リリース)
Power pack release SW b for shutter release

DB contact
ノーマル裏蓋
Normal rear cover

電源パック信号接点部
Power pack terminal contact
電池着脱 SW
電池ホルダー & 専用パック装着時 / OFF
電池ホルダー & 専用パック 未装着時 / ON
バッテリー識別 SW
単アルカリ 6 本時 / OFF
専用 Ni-MH パック時 ON

POWER PACK TERMINAL CONTACT
Battery release SW
OFF mode equipping the battery holder with its dedicated pack
ON mode while unequipping the battery holder with its dedicated pack
Battery 0-identification SW
OFF mode while loading 6 pieces of AA-type alkaline battery
ON mode while loading a dedicated Ni MH pack

Dynamic/single change-over SW ダイナミック/シングル切替 SW

AFリアセレクト
AFT rear selector

電源パック着脱 SW (RESET)
Power pack release SW a for reset
電源パック着脱 SW b (リリース)
Power pack release SW b for shutter release

DB contact
ノーマル裏蓋
Normal rear cover

電源パック信号接点部
Power pack terminal contact
電池着脱 SW
電池ホルダー & 専用パック装着時 / OFF
電池ホルダー & 専用パック 未装着時 / ON
バッテリー識別 SW
単アルカリ 6 本時 / OFF
専用 Ni-MH パック時 ON

POWER PACK TERMINAL CONTACT
Battery release SW
OFF mode equipping the battery holder with its dedicated pack
ON mode while unequipping the battery holder with its dedicated pack
Battery 0-identification SW
OFF mode while loading 6 pieces of AA-type alkaline battery
ON mode while loading a dedicated Ni MH pack

Dynamic/single change-over SW ダイナミック/シングル切替 SW

AFリアセレクト
AFT rear selector

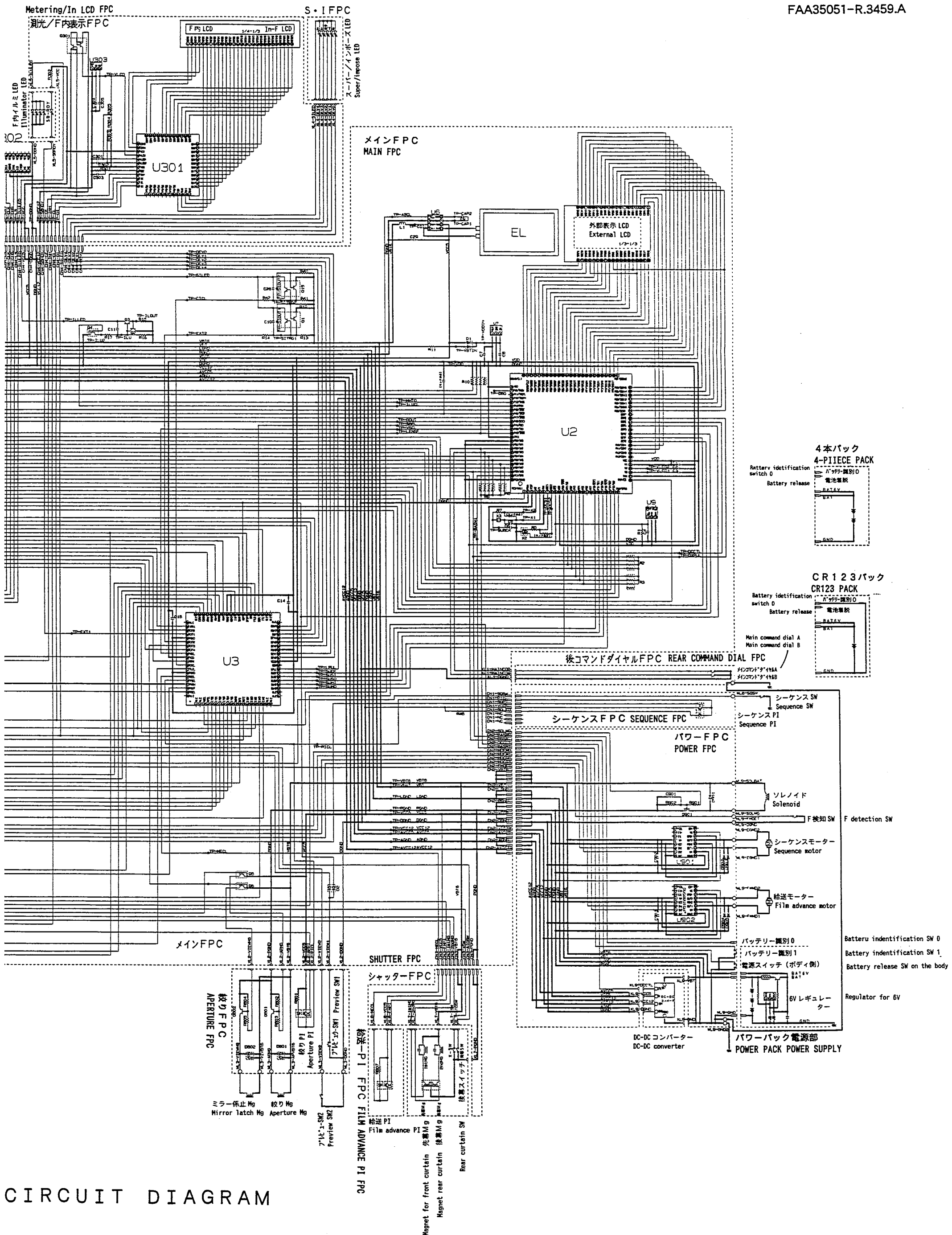
電源パック着脱 SW (RESET)
Power pack release SW a for reset
電源パック着脱 SW b (リリース)
Power pack release SW b for shutter release

DB contact
ノーマル裏蓋
Normal rear cover

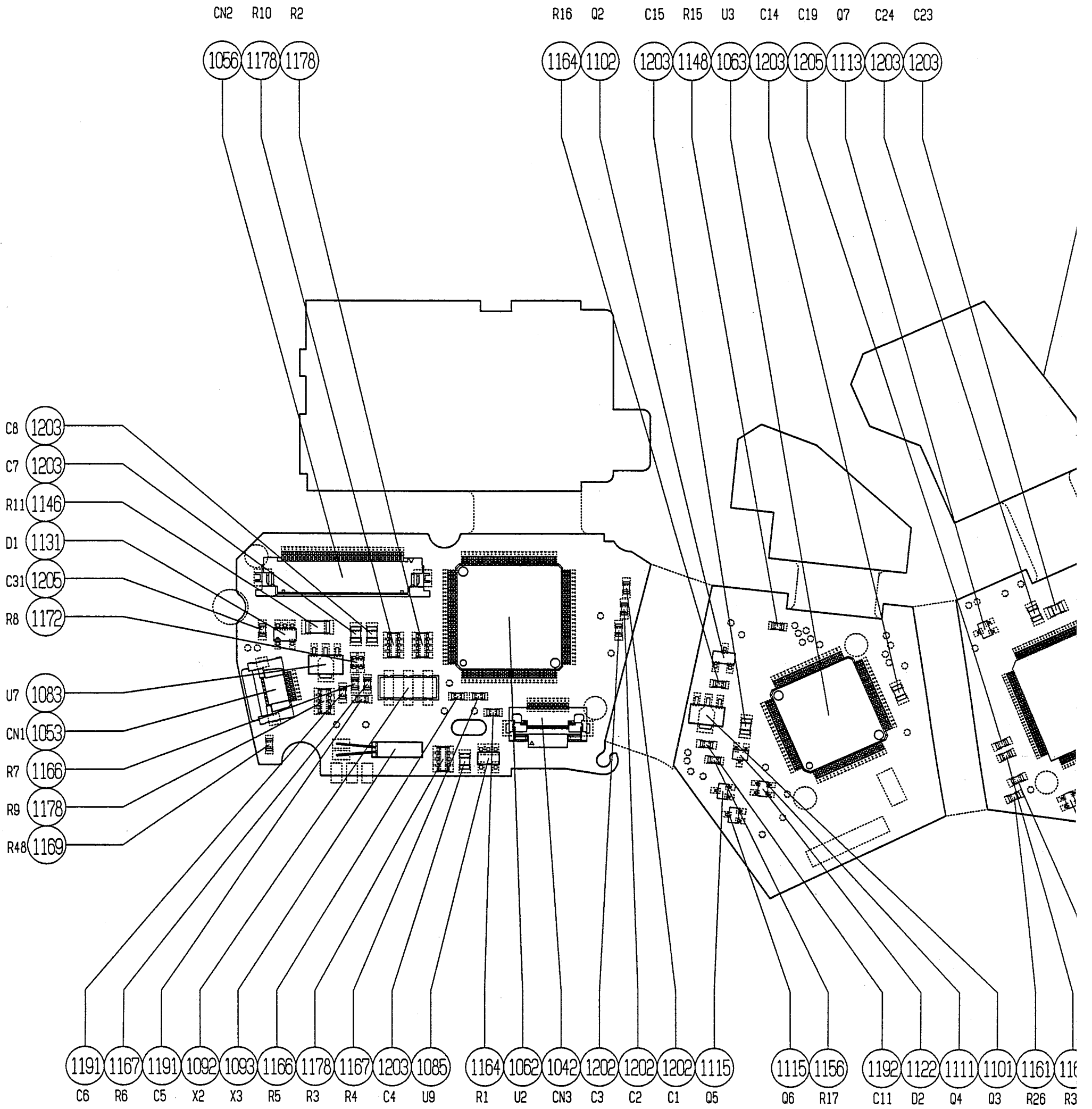
電源パック信号接点部
Power pack terminal contact
電池着脱 SW
電池ホルダー & 専用パック装着時 / OFF
電池ホルダー & 専用パック 未装着時 / ON
バッテリー識別 SW
単アルカリ 6 本時 / OFF
専用 Ni-MH パック時 ON

POWER PACK TERMINAL CONTACT
Battery release SW
OFF mode equipping the battery holder with its dedicated pack
ON mode while unequipping the battery holder with its dedicated pack
Battery 0-identification SW
OFF mode while loading 6 pieces of AA-type alkaline battery
ON mode while loading a dedicated Ni MH pack

回路図

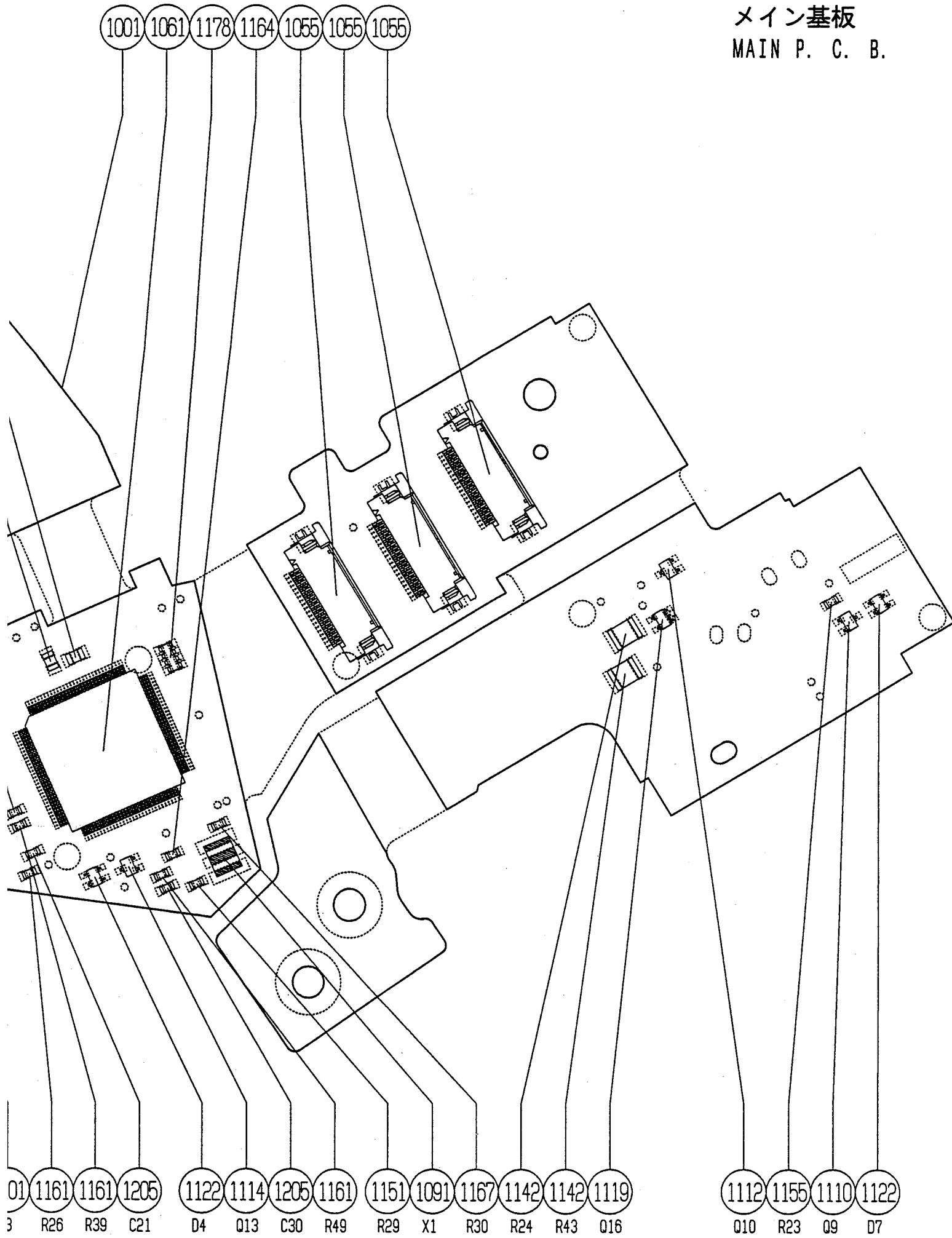


CIRCUIT DIAGRAM

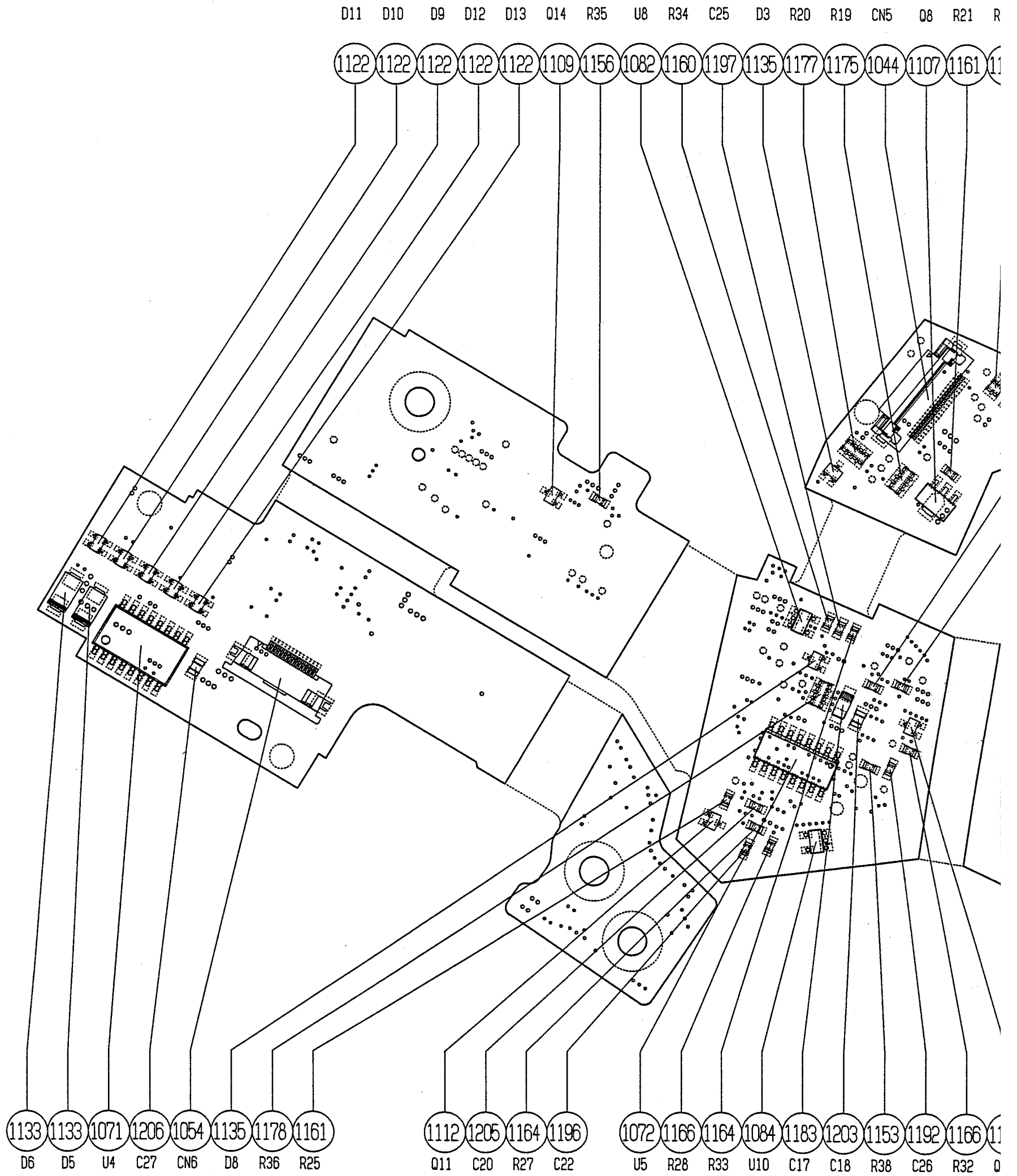


U1 R31 R44 CN7 CN8 CN9

メイン基板
MAIN P. C. B.



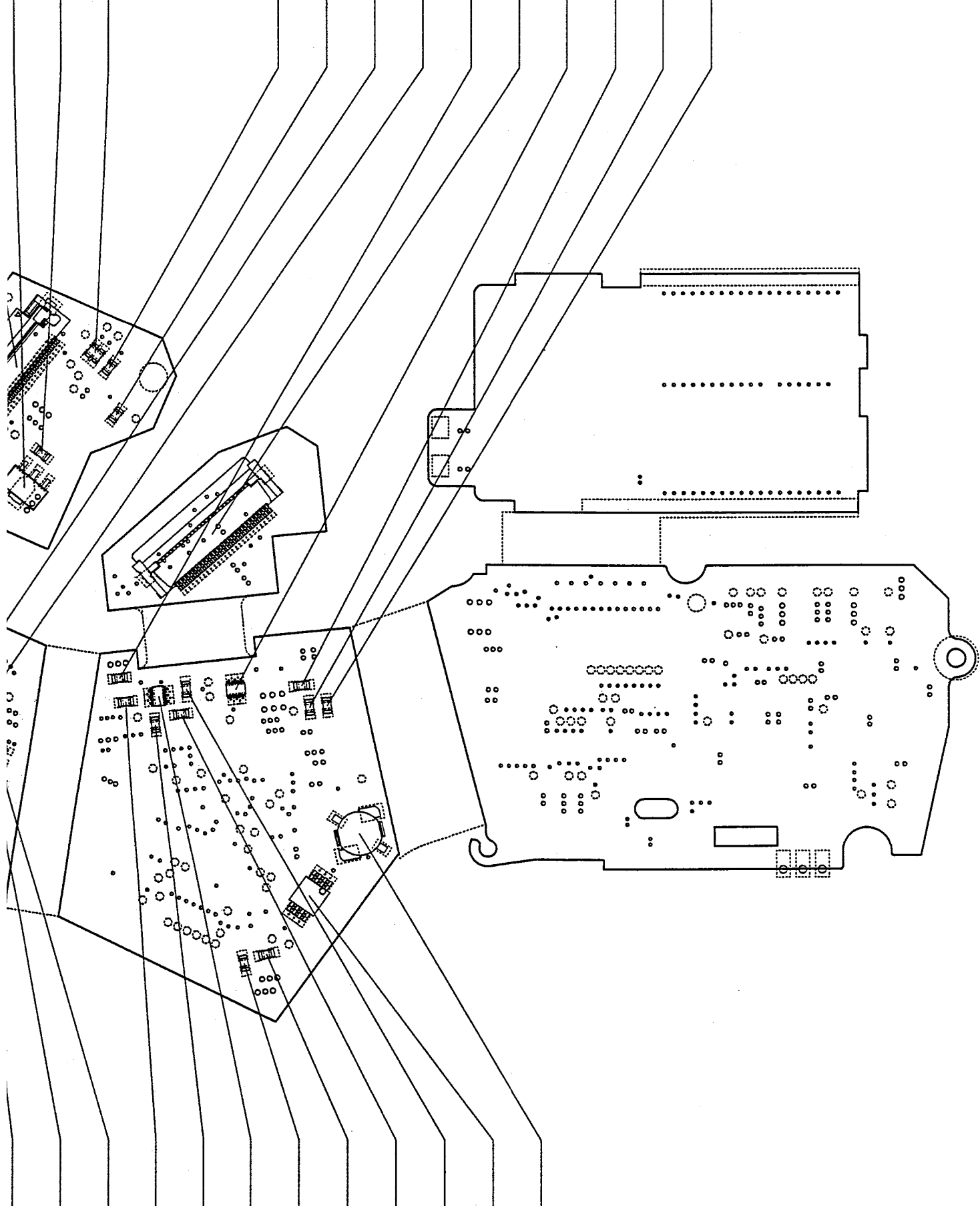
表面部品実装図
Surface parts mount figure



J8 R21 R18

R46 R47 R37 R22 R13 CN4 Q15 C28 R42 R14

07 1161 1171 1150 1164 1164 1166 1164 1052 1117 1192 1156 1156



92 1166 1113 1148 1150 1117 1202 1192 1164 1192 1075 1040
 26 R32 Q12 R12 R40 Q1 C29 C9 R41 C10 U6 L1

裏面部品実装図
 Reverse parts mount figure

CN2-AGND
CN2-AGND
CN2-AVCC5
CN2-AVCC5
CN2-AVCC12
CN2-AVCC12
CN2-DCCTL
CN2-VCC12
CN2-PGND
CN2-PGND
CN2-PGND
CN2-VBT
CN2-SOLMG
CN2-MDFM1
CN2-MDFM0
CN2-MDCG1
CN2-DGND
CN2-DGND
CN2-VCC5
CN2-VCC5
CN2-RSSW
CN2-BASW1
CN2-VBT6
CN2-VBT6
CN2-VBT6
CN2-VBT6
CN2-MDCG0
CN2-BASW0
CN2-LGND
CN2-LGND
CN2-LGND
CN2-FMDET

CN1-NC
CN1-NC
CN1-NC
CN1-SQLED
CN1-VCC5
CN1-PICL
CN1-SQPI
CN1-SQSW

TP-SUBCK
TP-X1
XL1-DGND
XL1-MAINCOA
XL1-MAINCOB

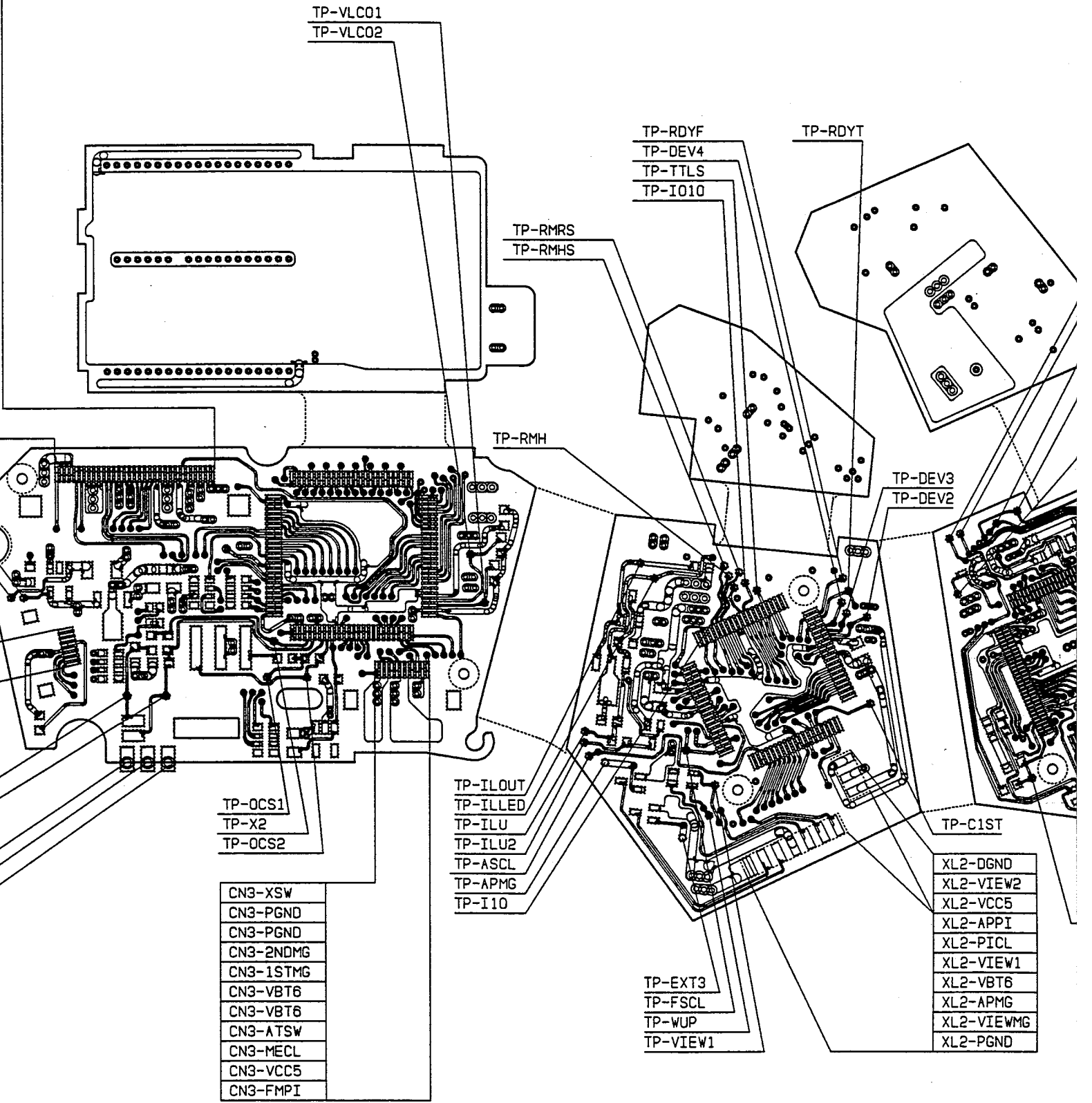
TP-OCS1
TP-X2
TP-OCS2

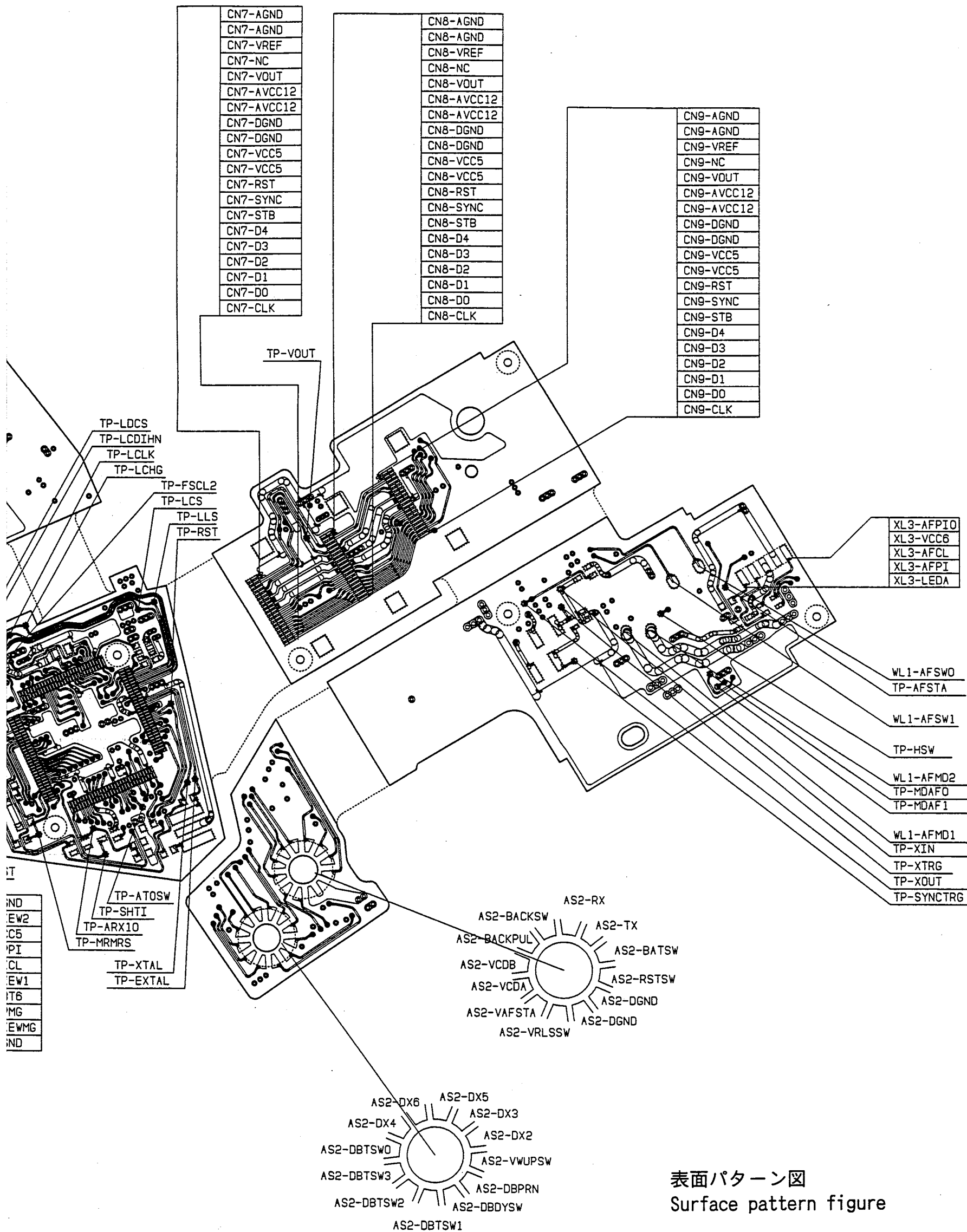
CN3-XSW
CN3-PGND
CN3-PGND
CN3-2NDMG
CN3-1STMG
CN3-VBT6
CN3-VBT6
CN3-ATSW
CN3-MECL
CN3-VCC5
CN3-FMPI

TP-ILOUT
TP-ILLED
TP-ILU
TP-ILU2
TP-ASCL
TP-APMG
TP-I10

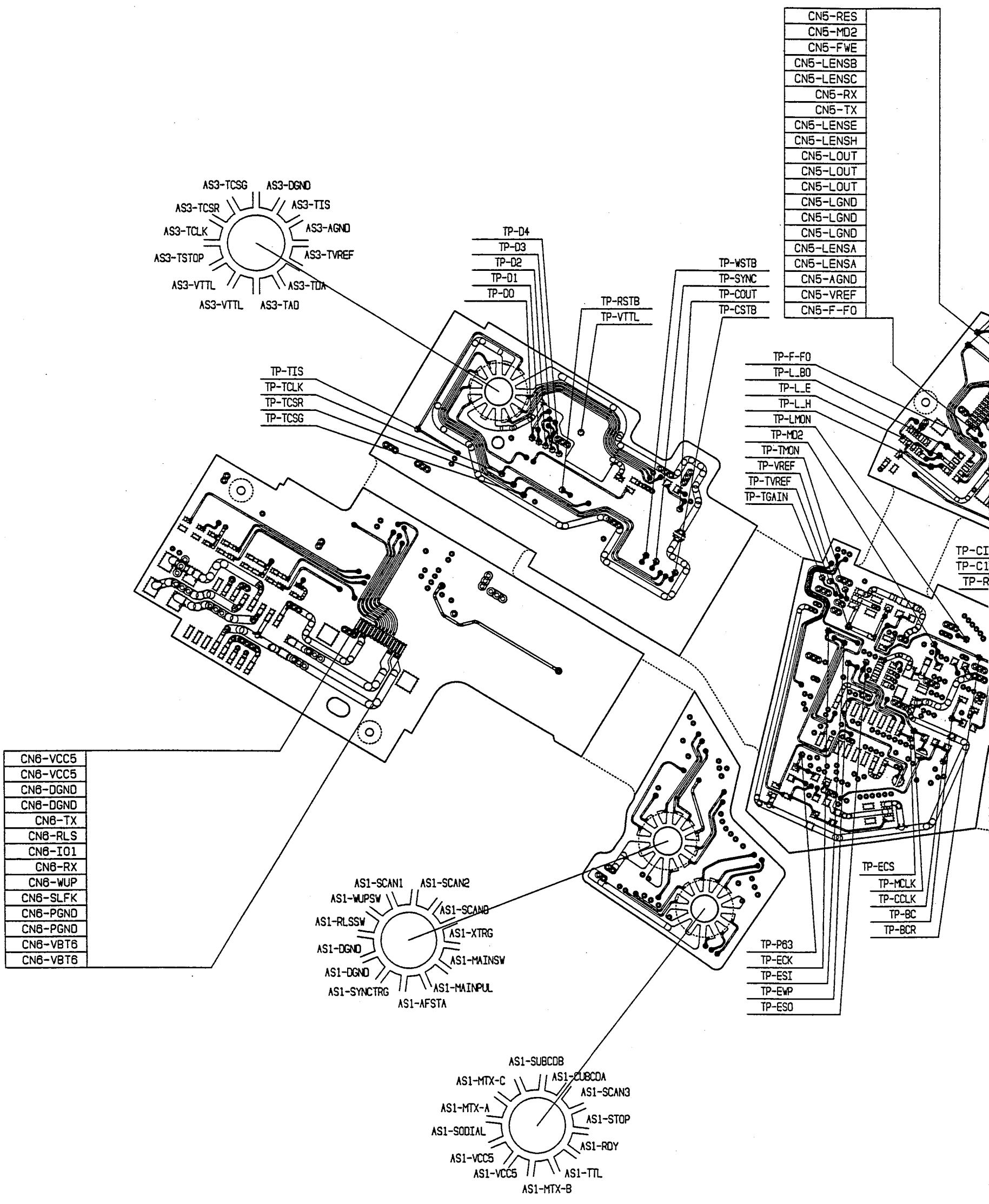
TP-EXT3
TP-FSCL
TP-WUP
TP-VIEW1

XL2-DGND
XL2-VIEW2
XL2-VCC5
XL2-APPI
XL2-PICL
XL2-VIEW1
XL2-VBT6
XL2-APMG
XL2-VIEWMG
XL2-PGND



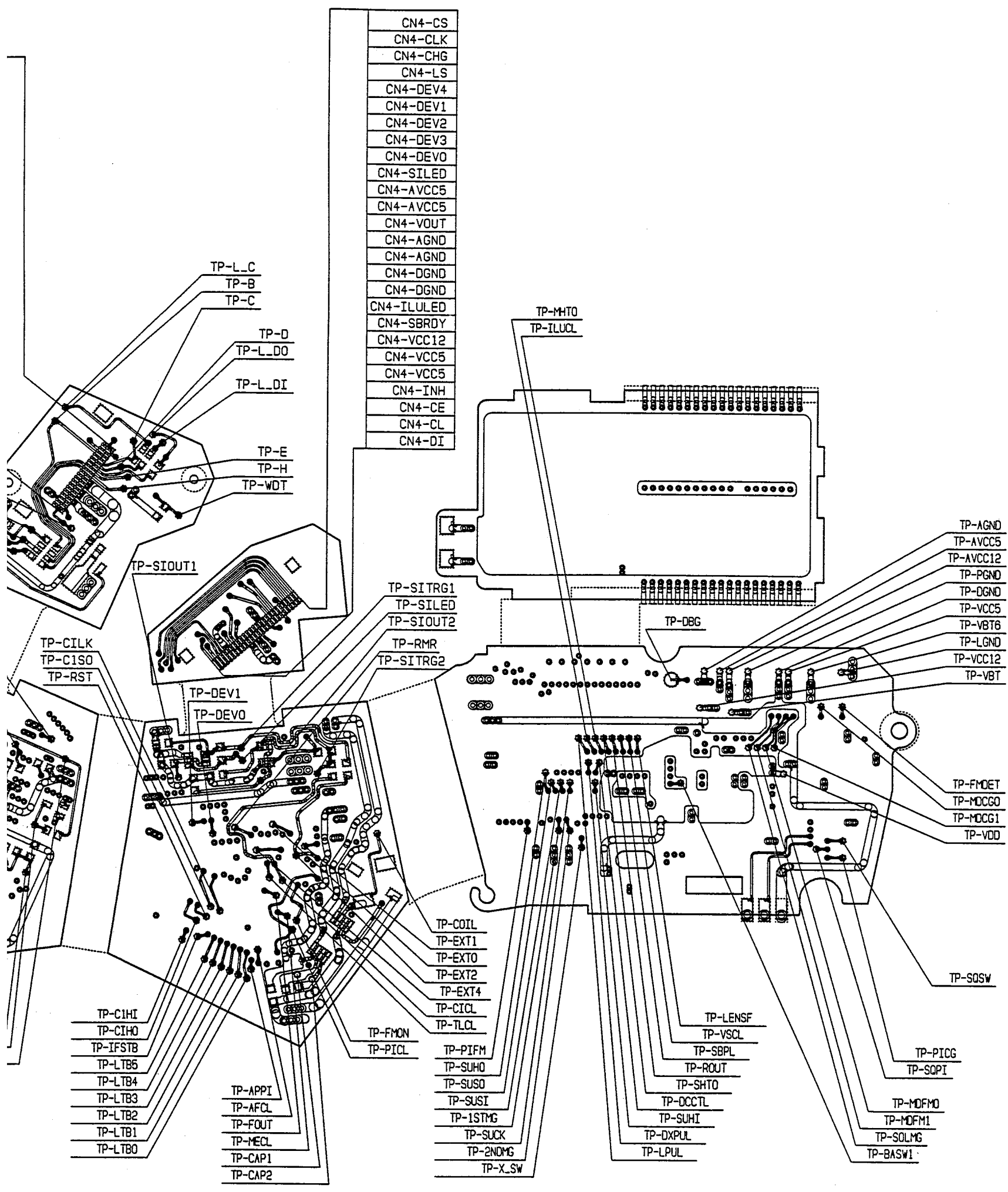


表面パターン図
Surface pattern figure



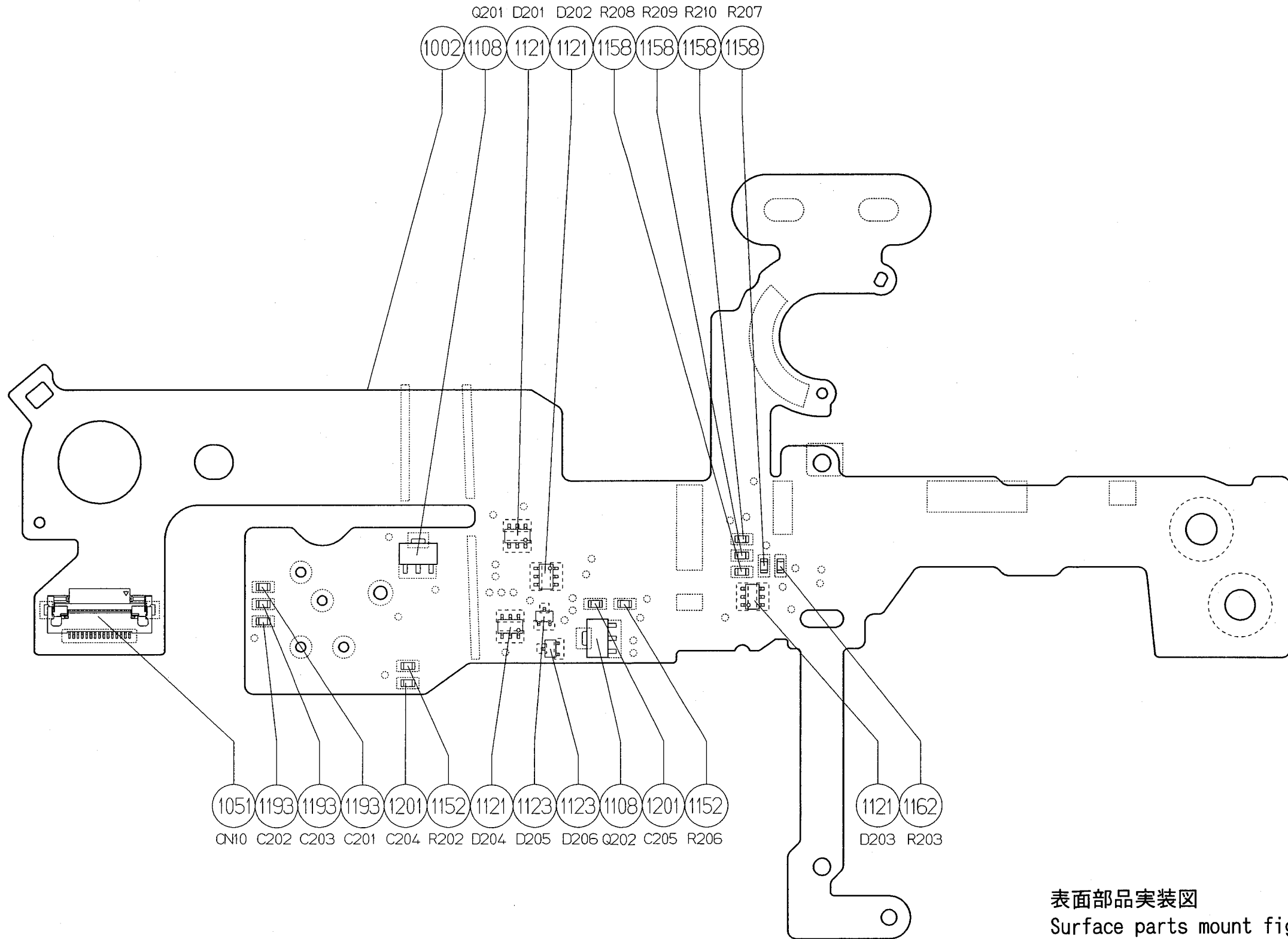
CN5-RES
CN5-MD2
CN5-FWE
CN5-LENSB
CN5-LENSC
CN5-RX
CN5-TX
CN5-LENSE
CN5-LENSH
CN5-LOUT
CN5-LOUT
CN5-LGND
CN5-LGND
CN5-LGND
CN5-LENSA
CN5-LENSA
CN5-AGND
CN5-VREF
CN5-F-F0

CN6-VCC5
CN6-VCC5
CN6-DGND
CN6-DGND
CN6-TX
CN6-RLS
CN6-IO1
CN6-RX
CN6-WUP
CN6-SLFK
CN6-PGND
CN6-PGND
CN6-VBT6
CN6-VBT6

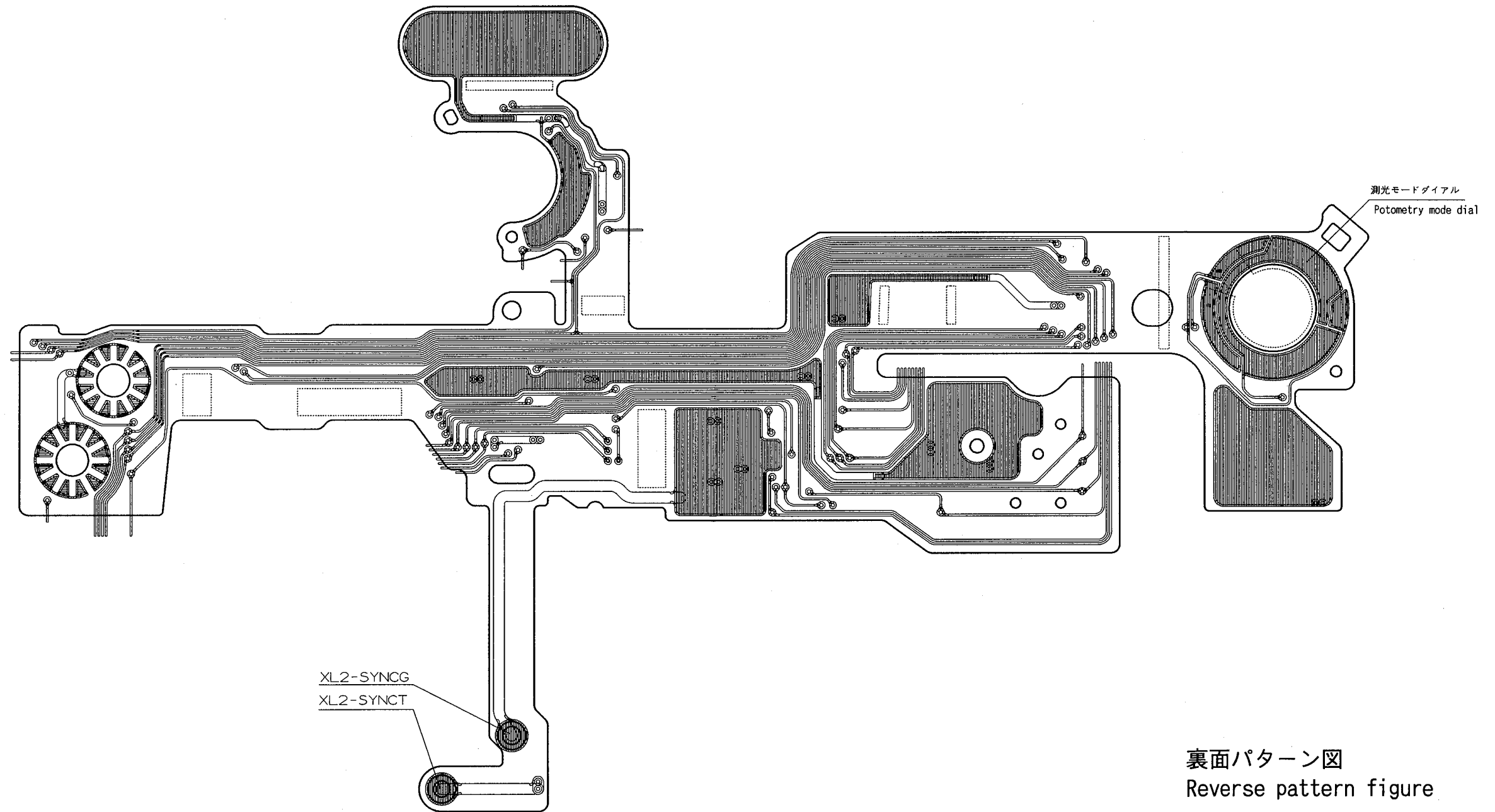


裏面パターン図
Reverse pattern figure

上カバーFPC
TOP COVER FPC

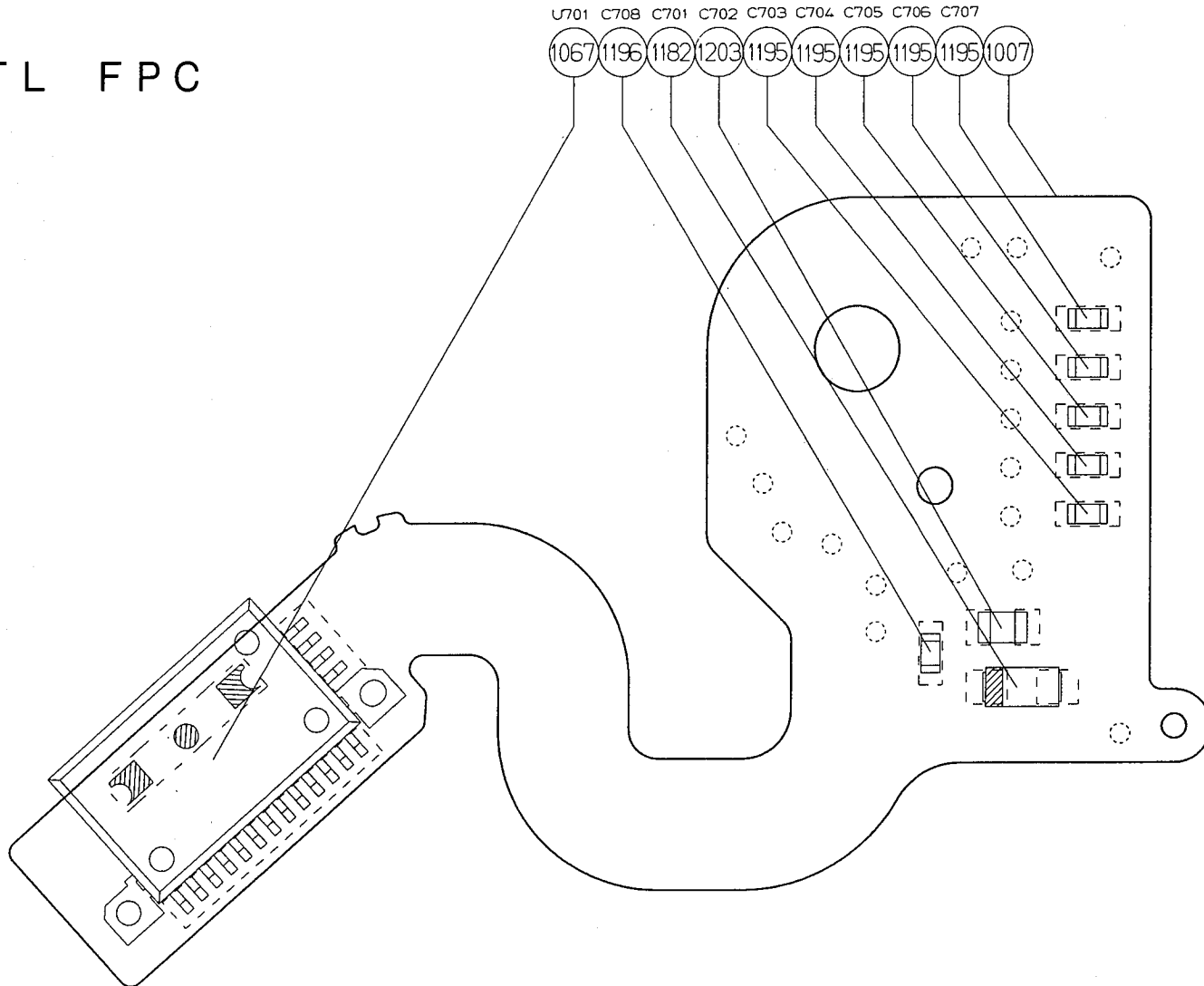


表面部品実装図
Surface parts mount figure

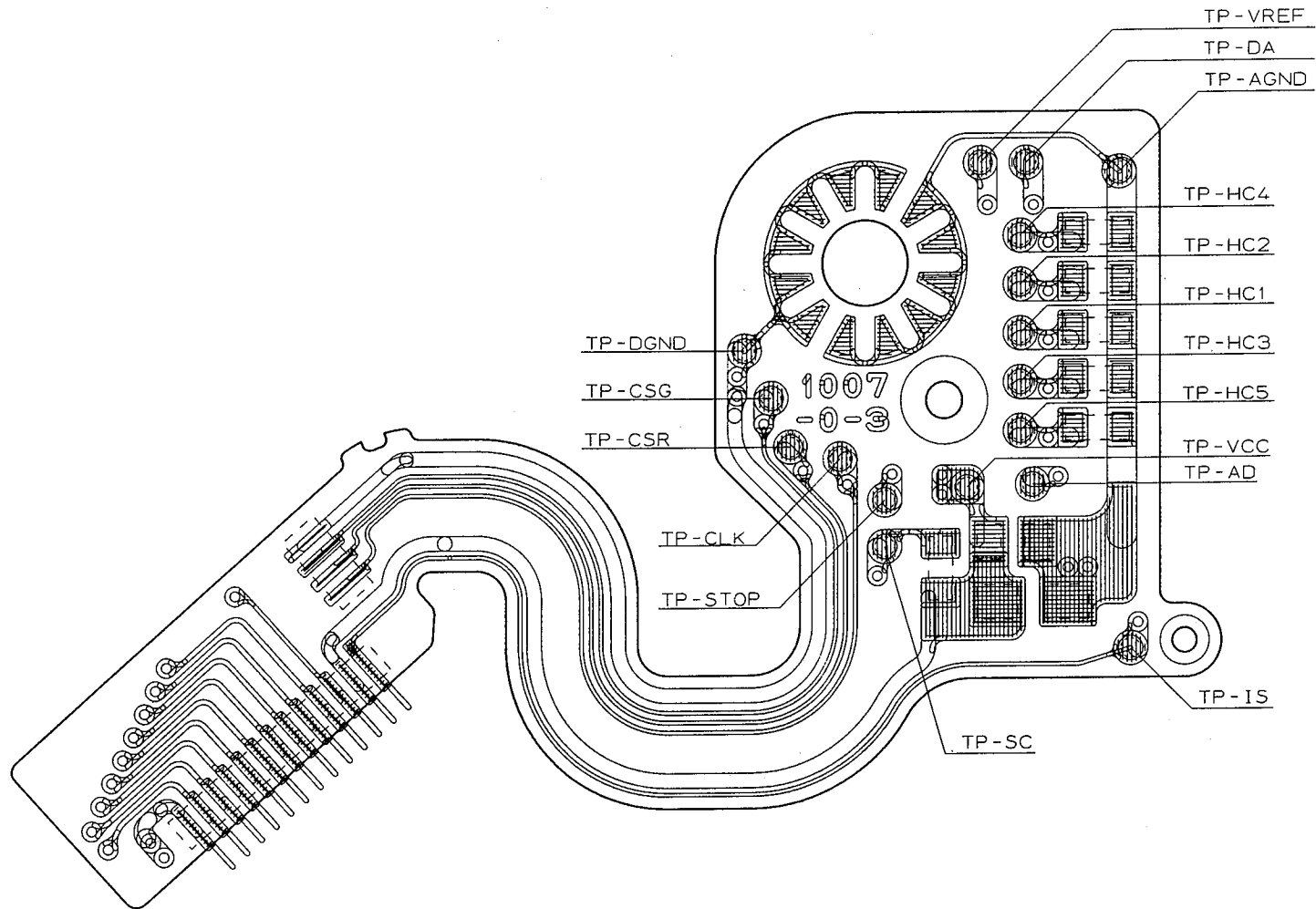


裏面パターン図
Reverse pattern figure

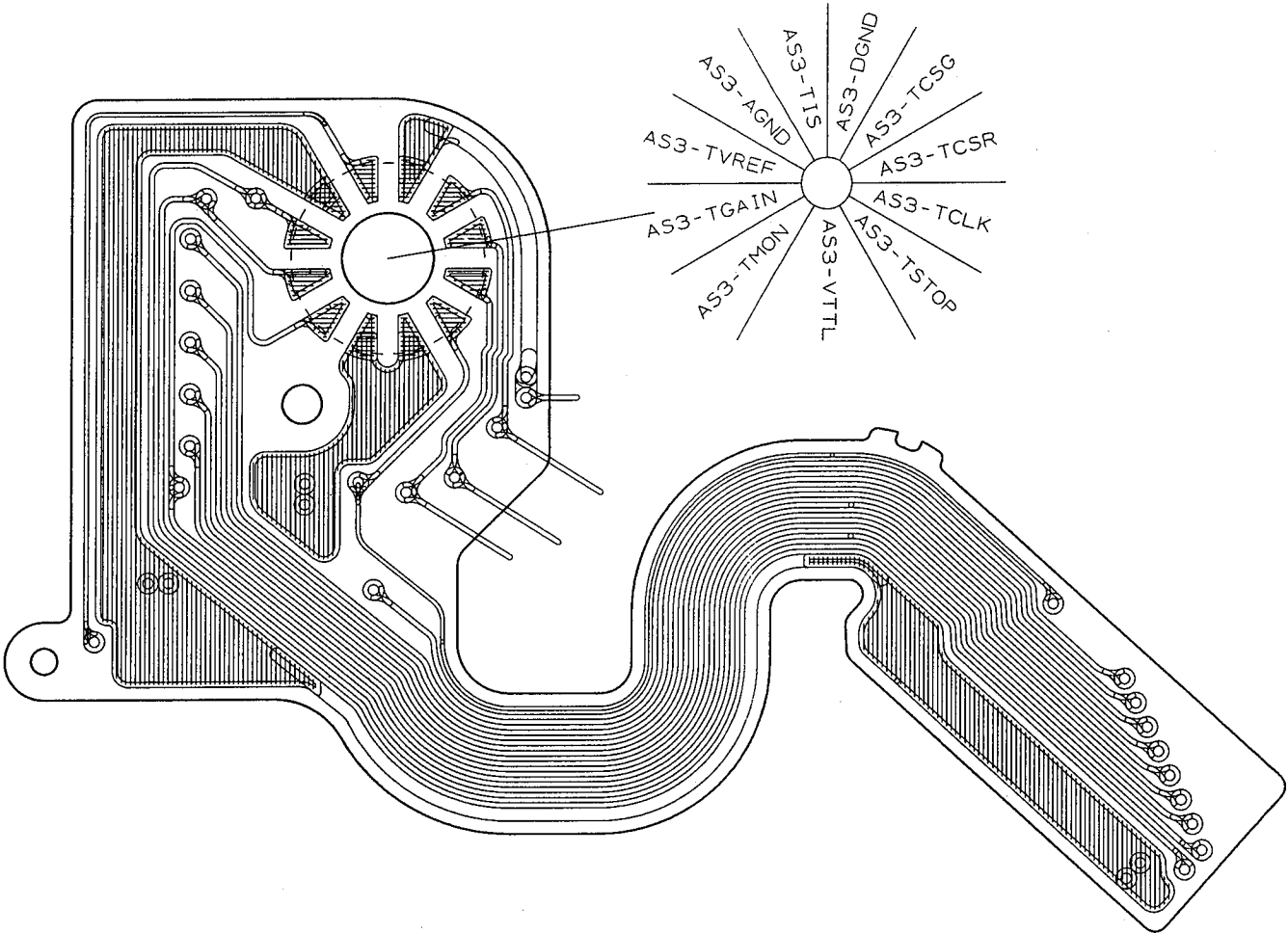
TTL FPC



表面部品実装図
Surface parts mount figure

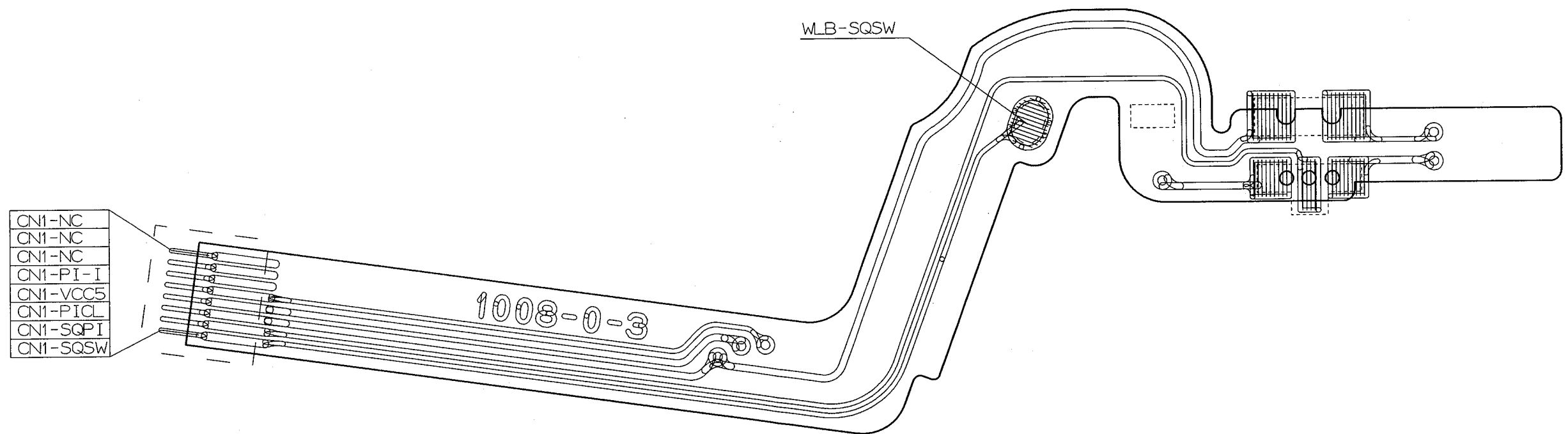


表面パターン図
 Surface pattern figure



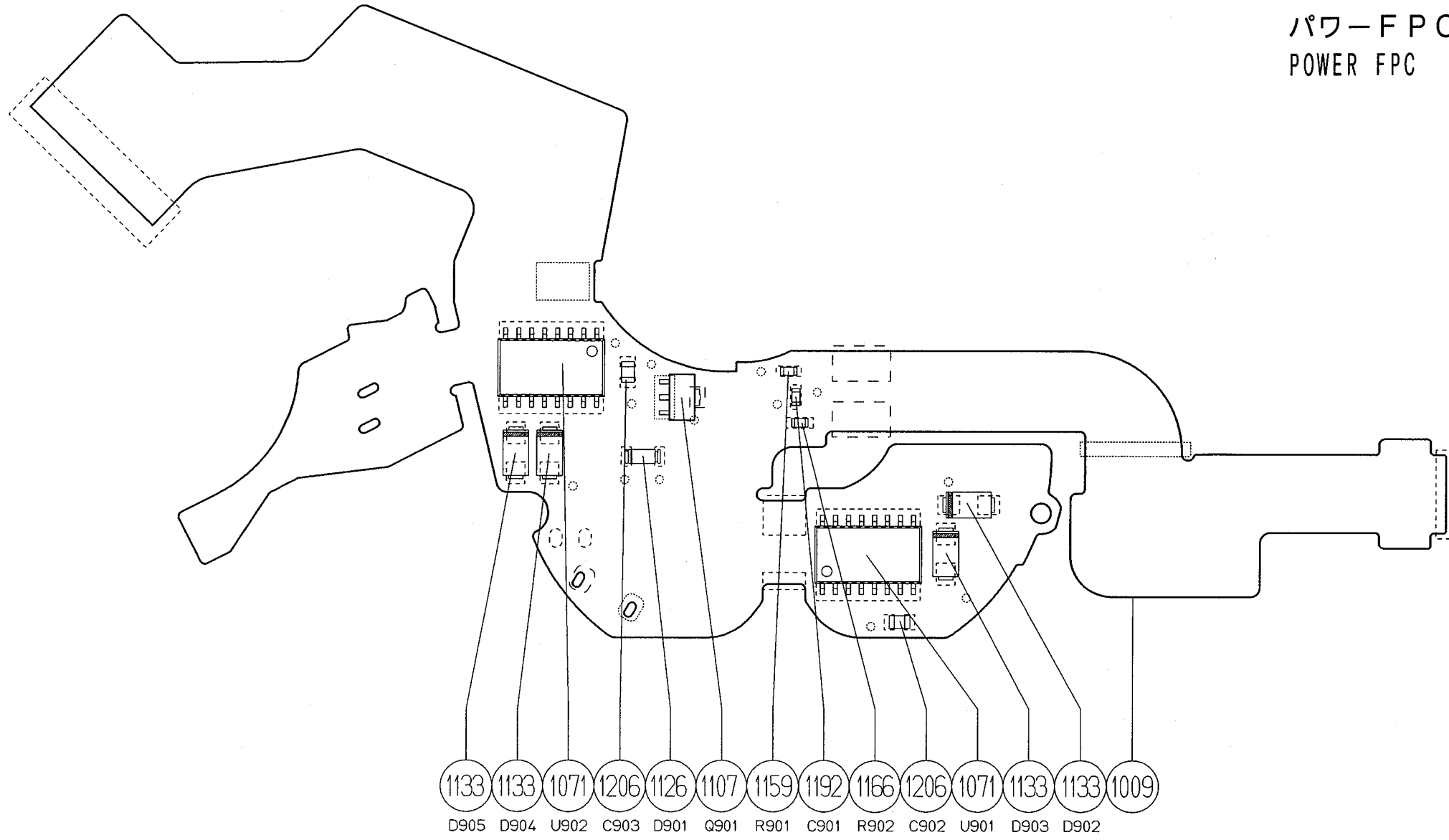
裏面パターン図
Reverse pattern figure

シーケンスFPC
SEQUENCE FPC

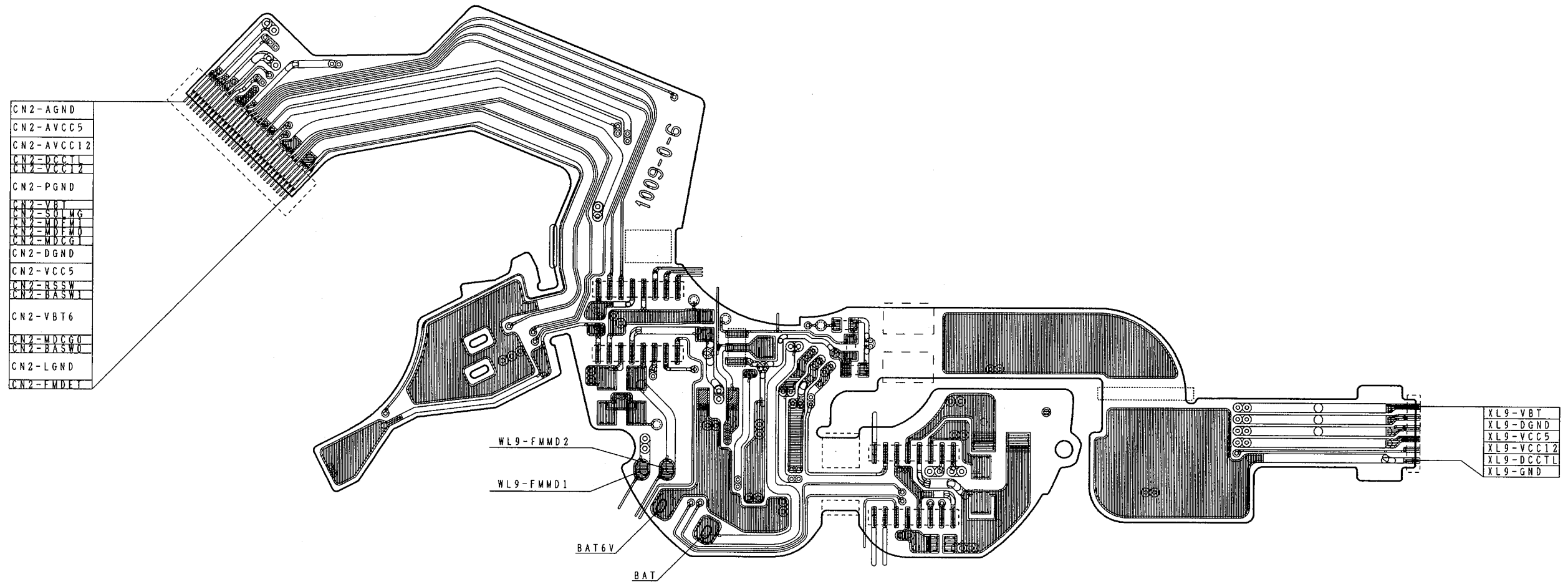


表面パターン図
Surface pattern figure

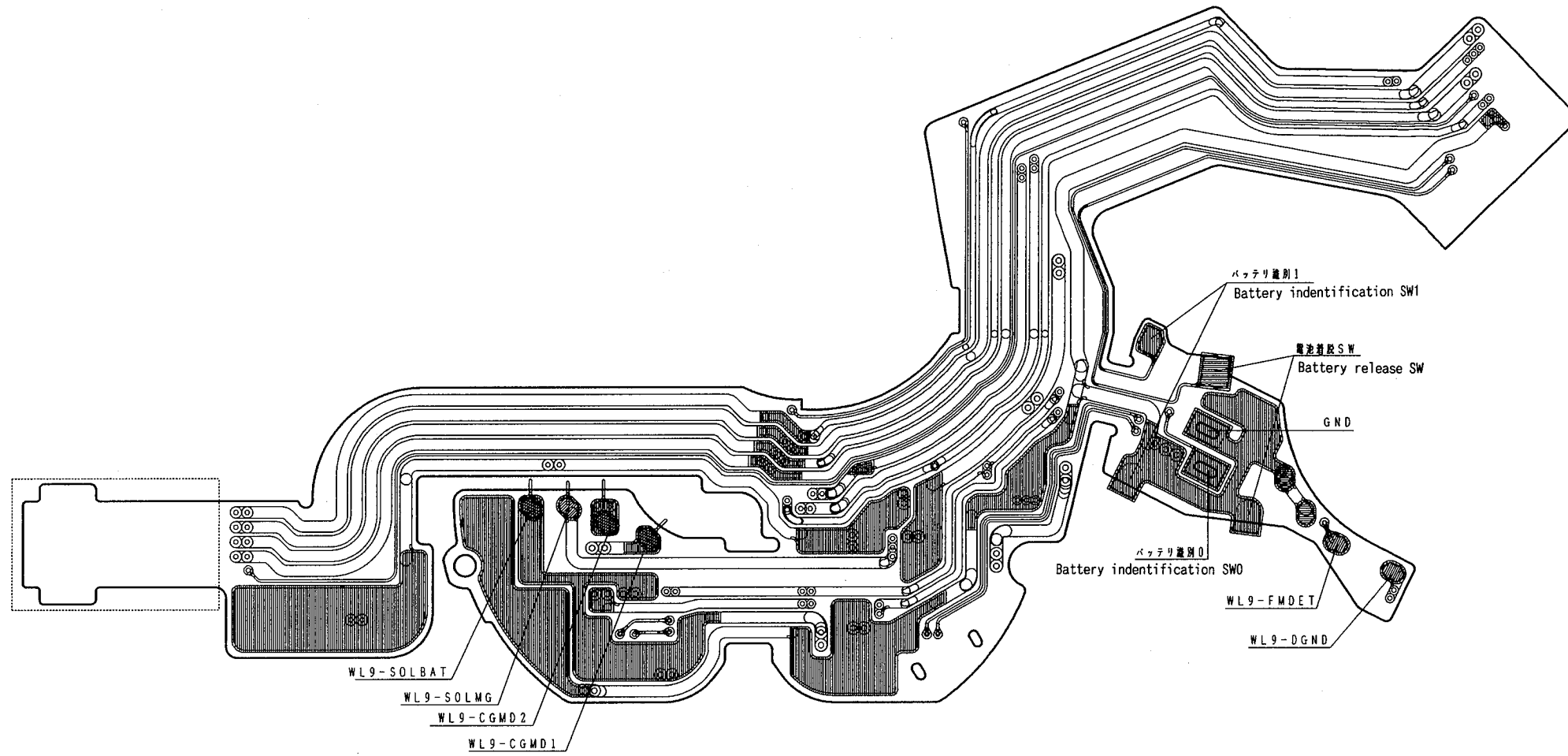
パワーFPC
POWER FPC



表面部品実装図
Surface parts mount figure

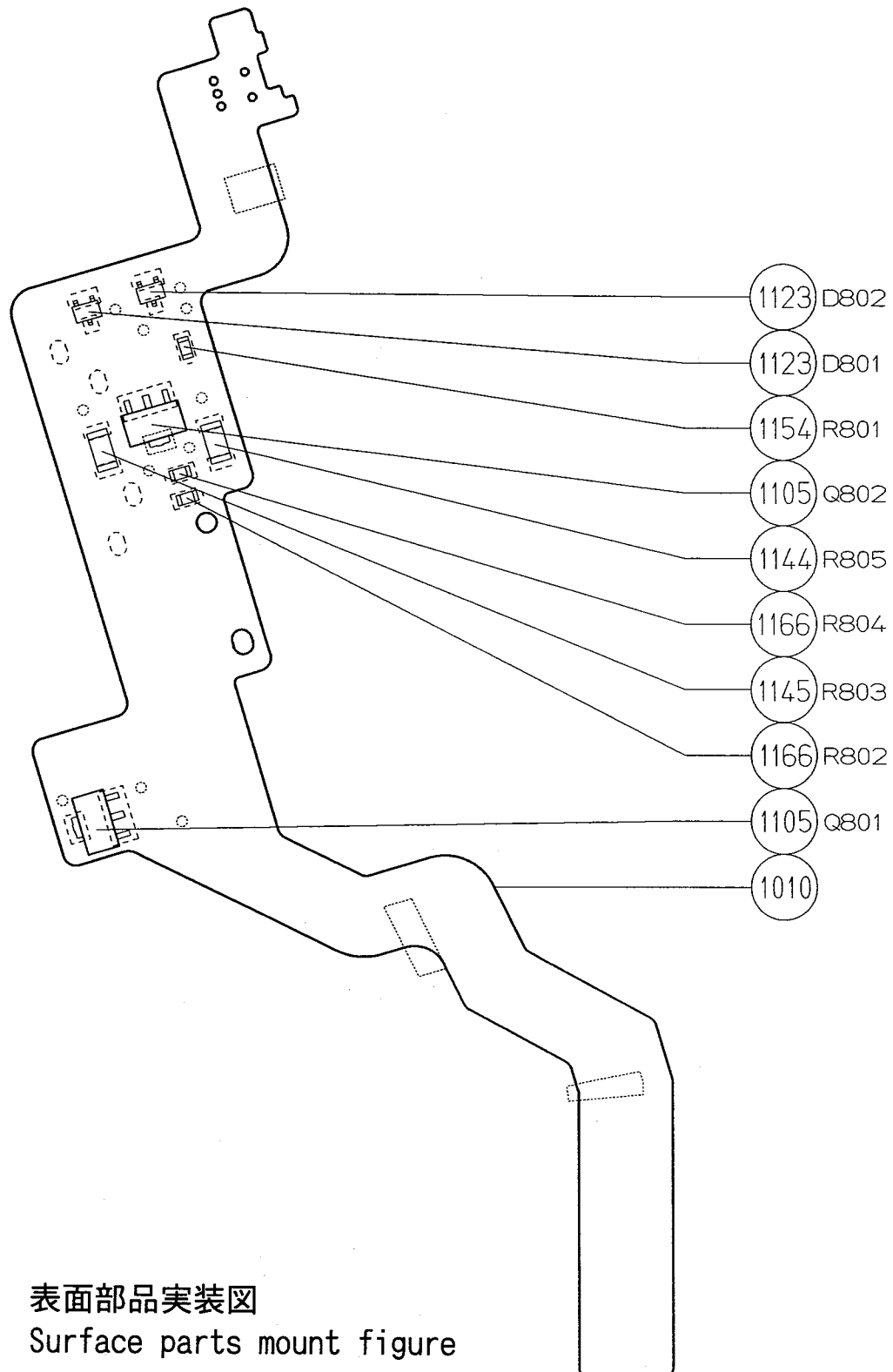


表面パターン図
Surface pattern figure

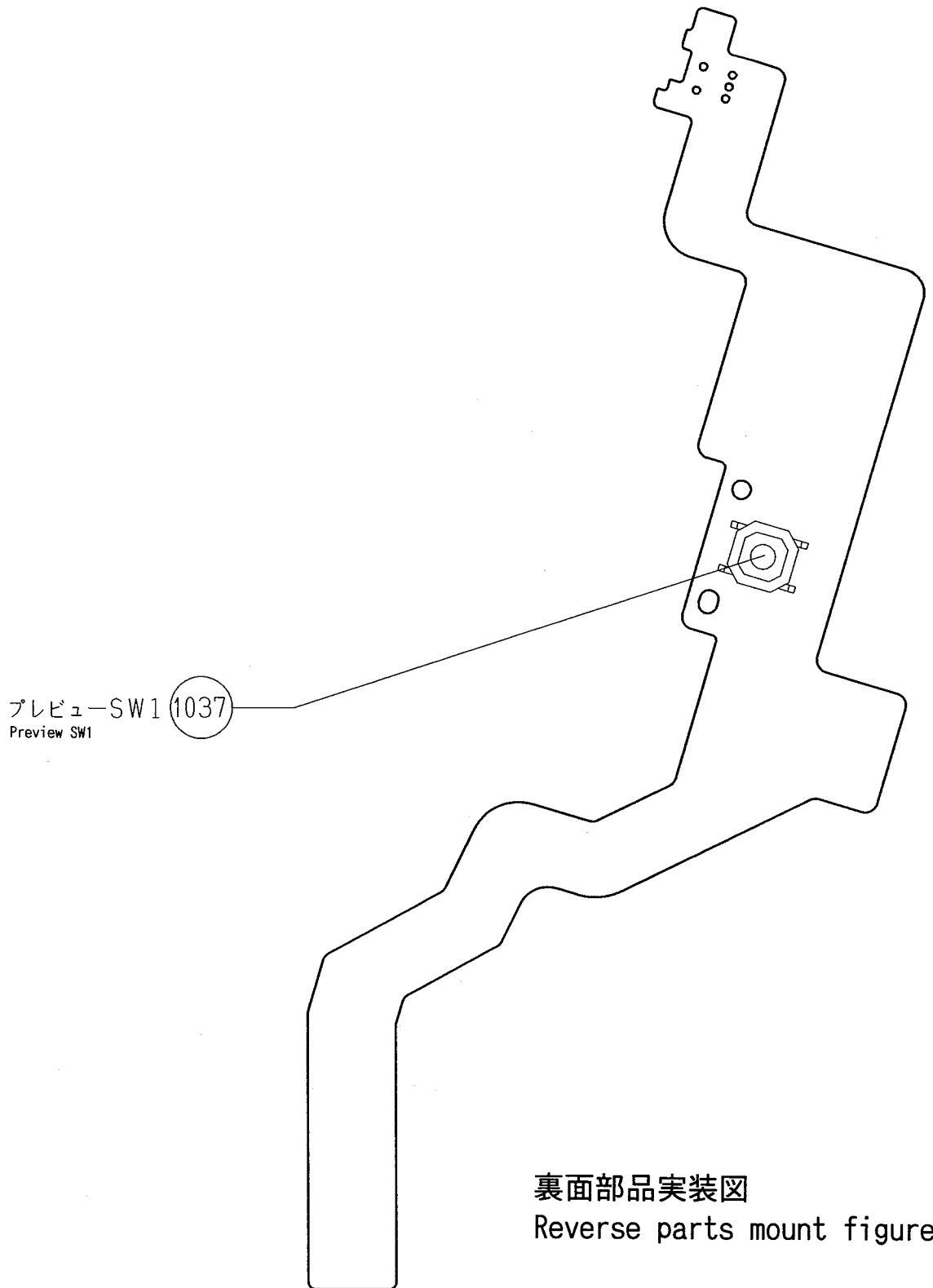


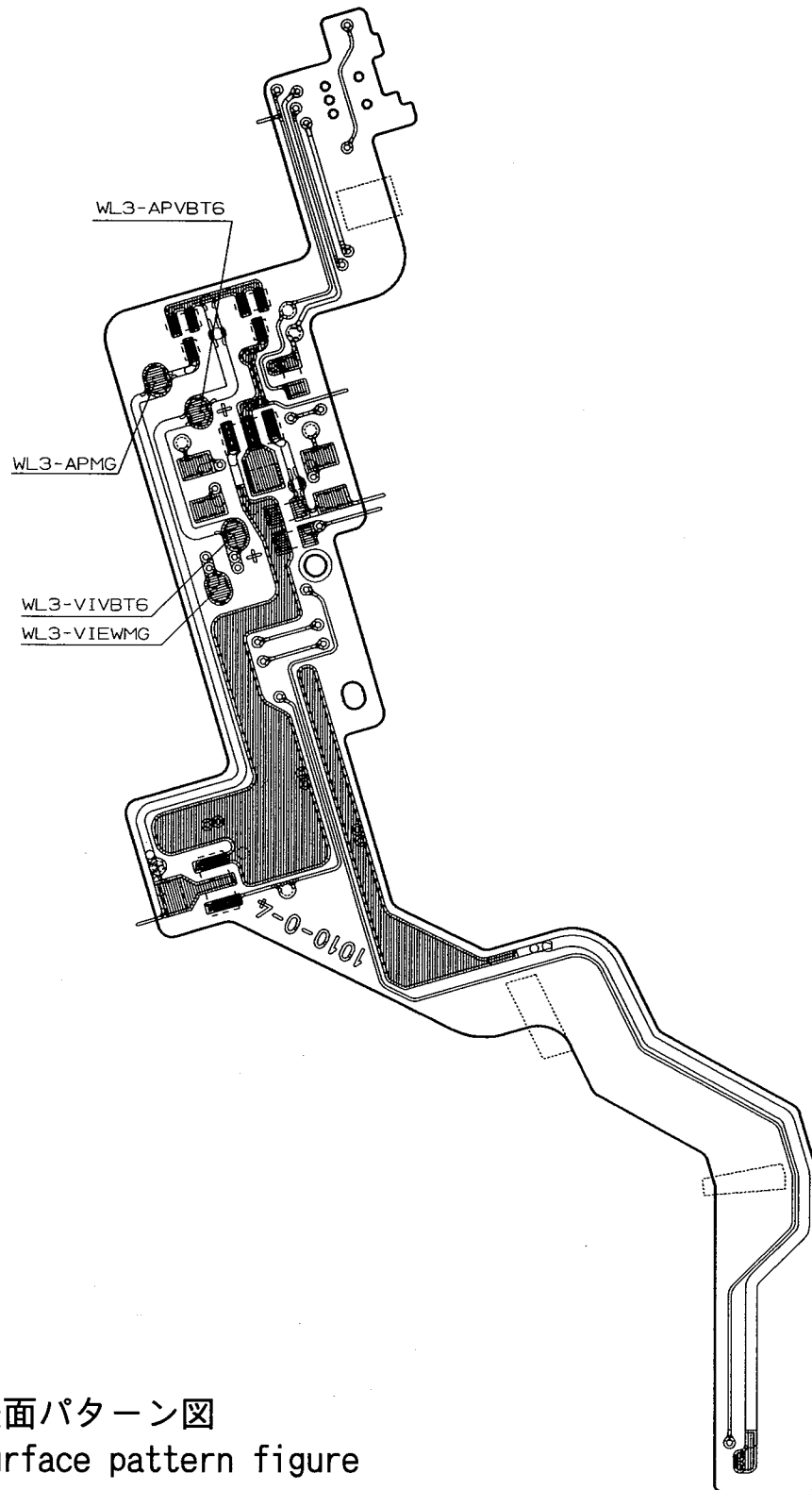
裏面パターン図
Reverse pattern figure

絞りFPC
APERTURE FPC

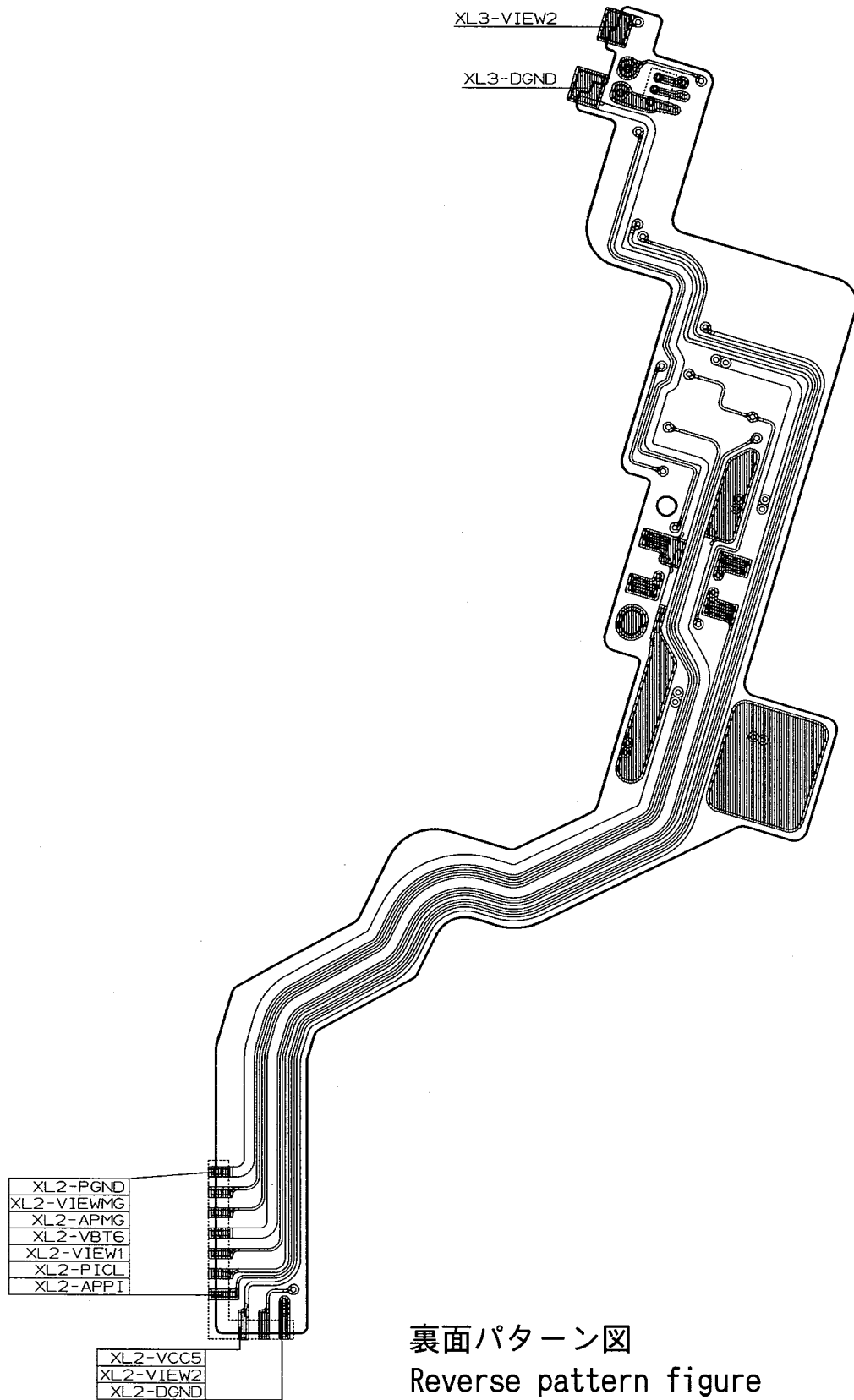


表面部品実装図
Surface parts mount figure



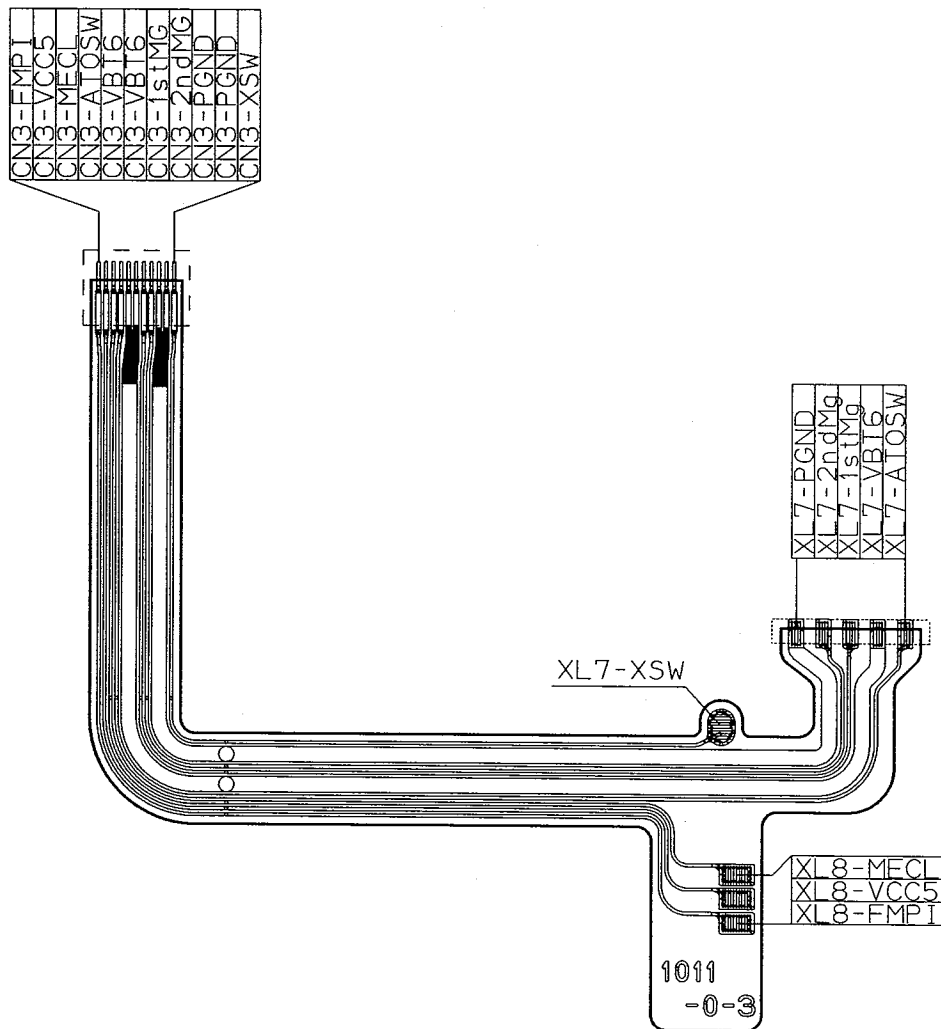


表面パターン図
Surface pattern figure



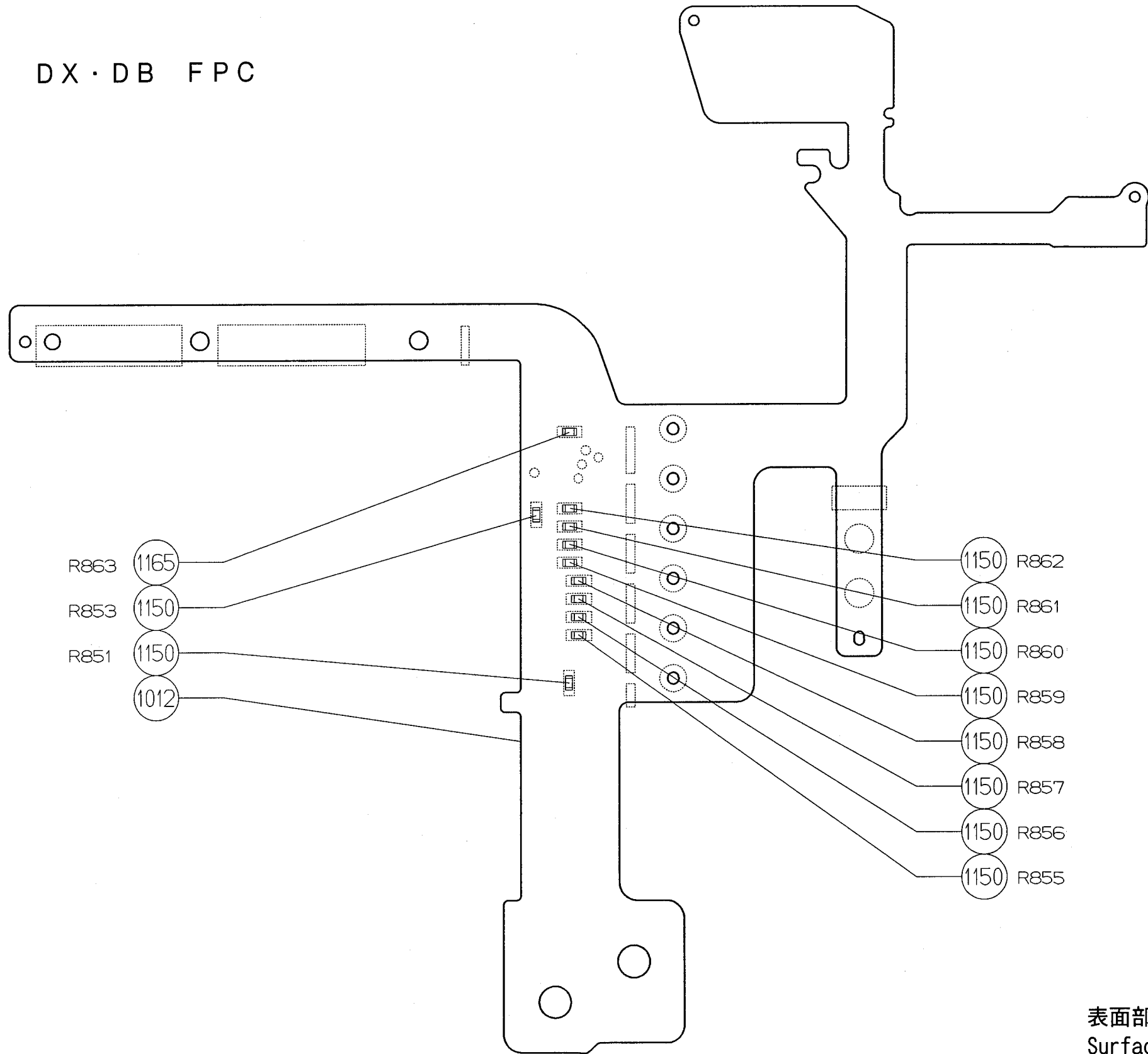
裏面パターン図
Reverse pattern figure

シャッター-FPC
SHUTTER FPC

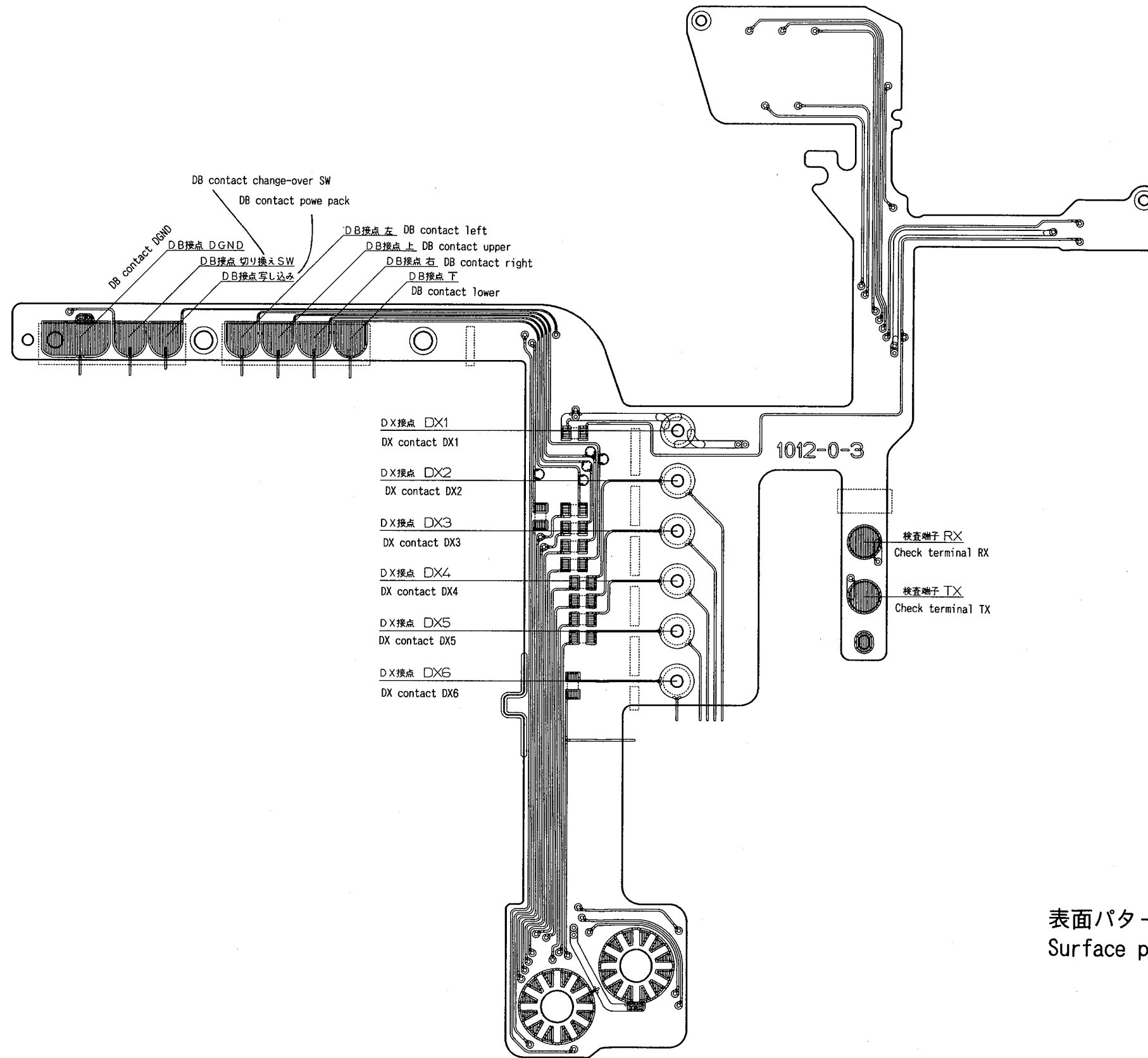


表面パターン図
Surface pattern figure

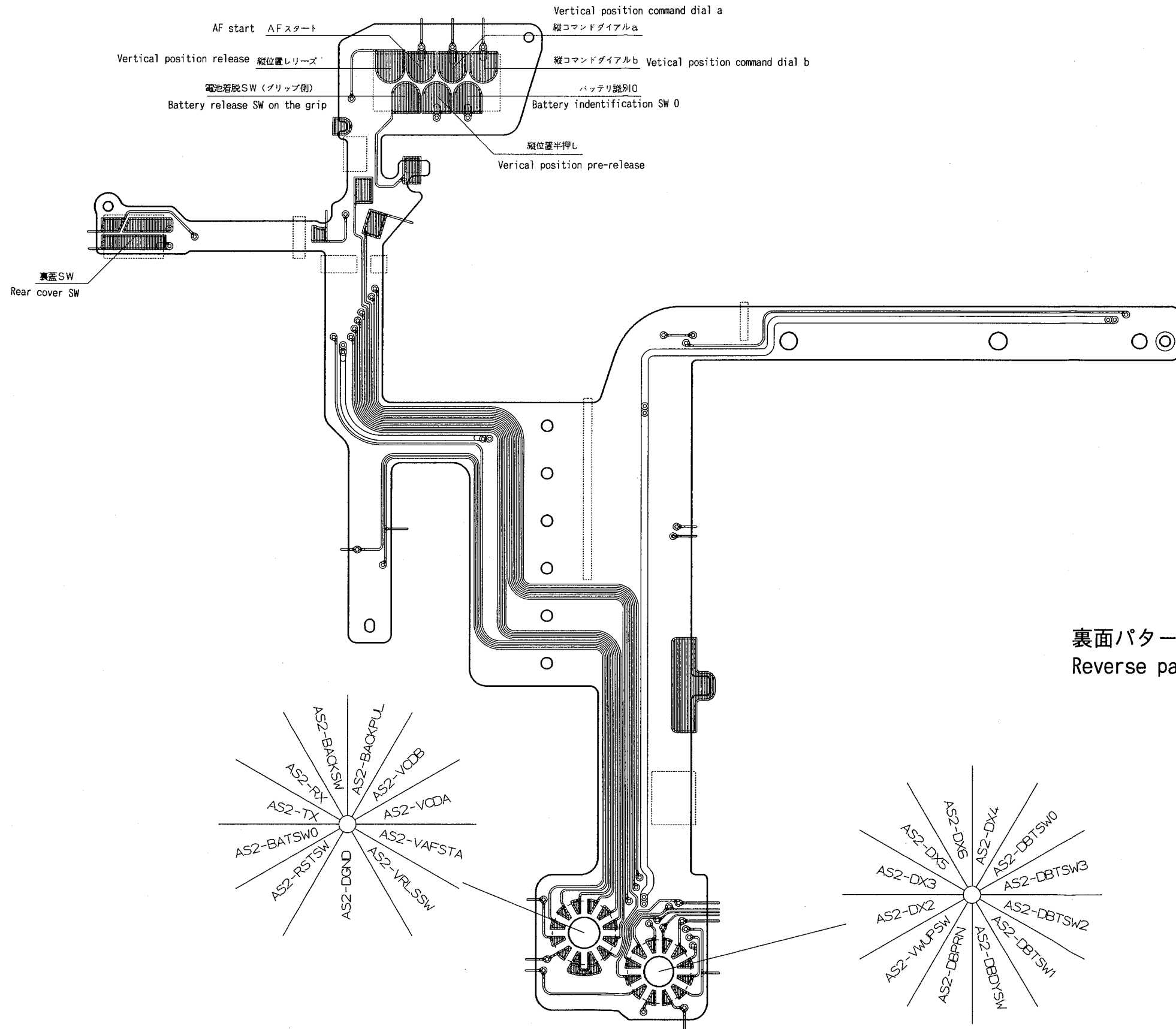
DX · DB FPC



表面部品実装図
Surface parts mount figure

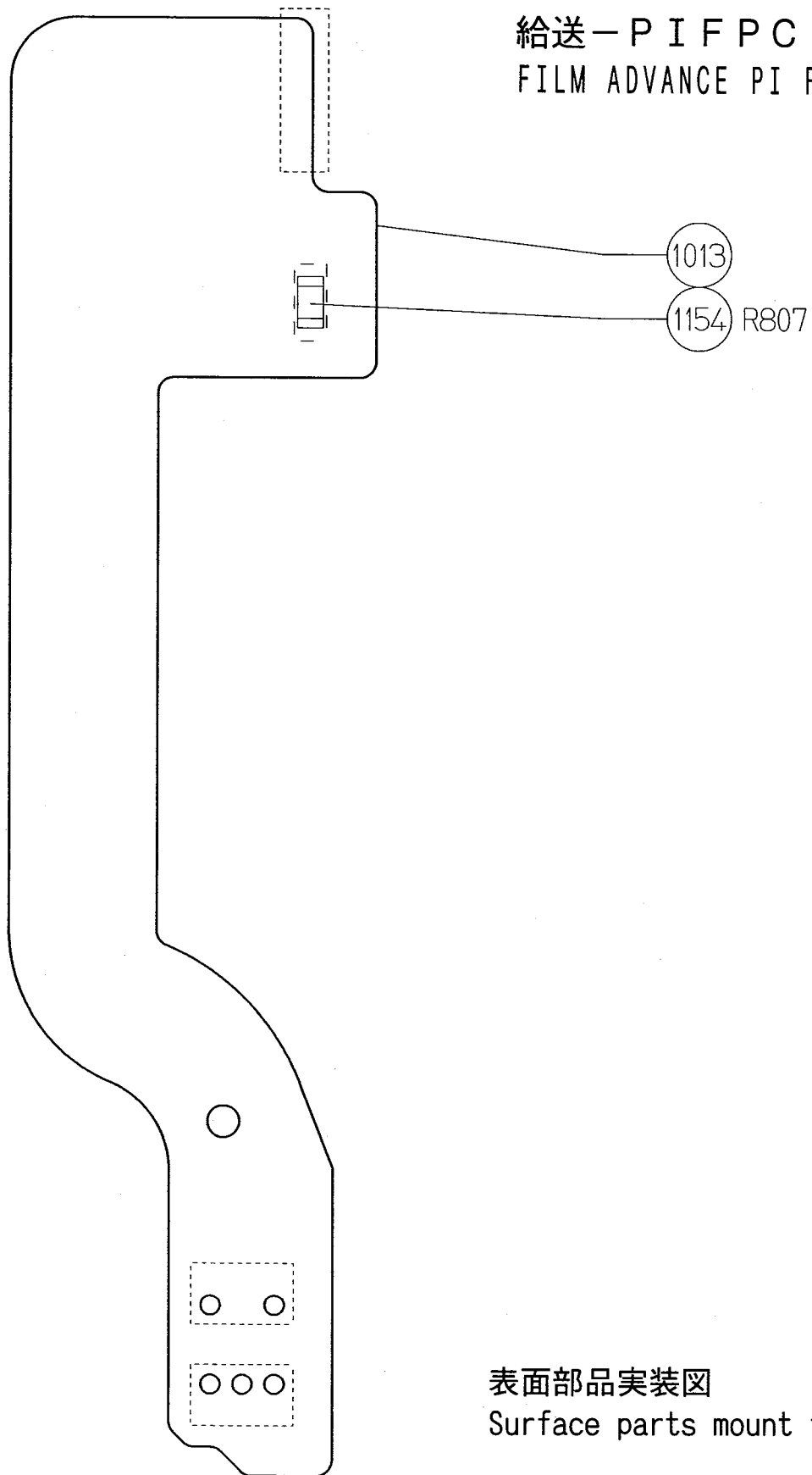


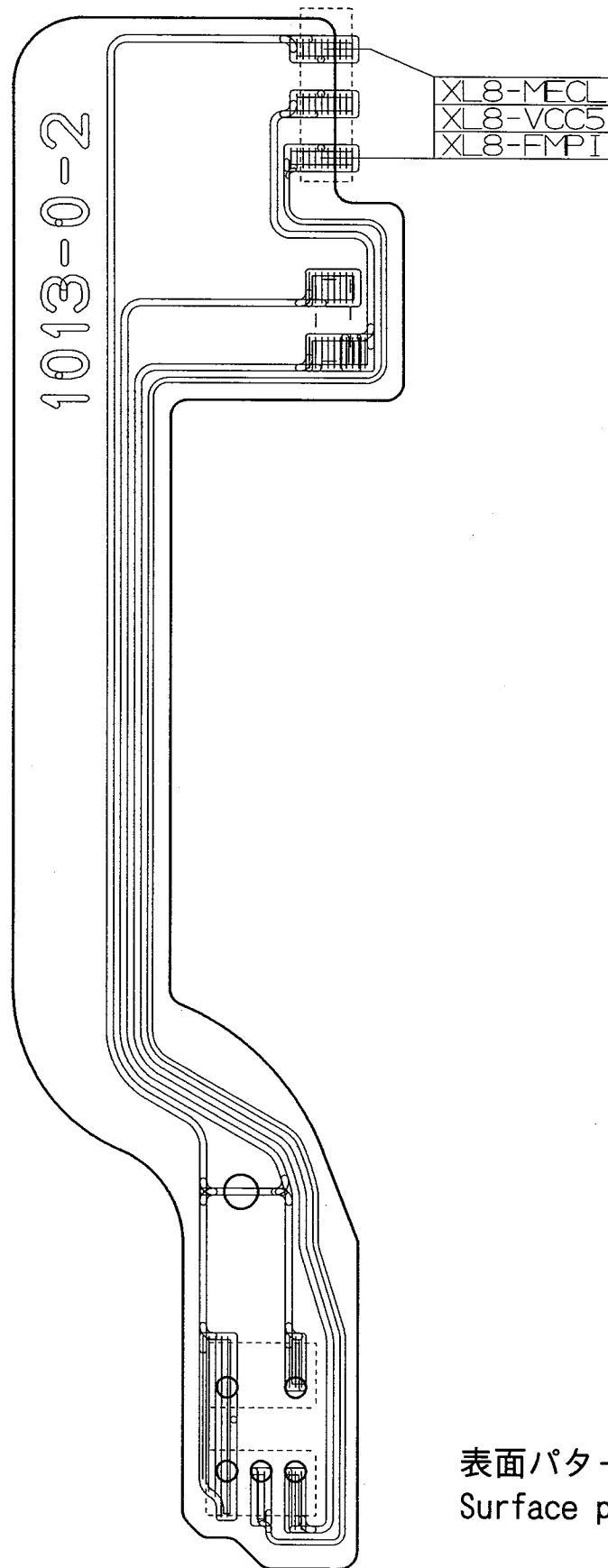
表面パターン図
Surface pattern figure



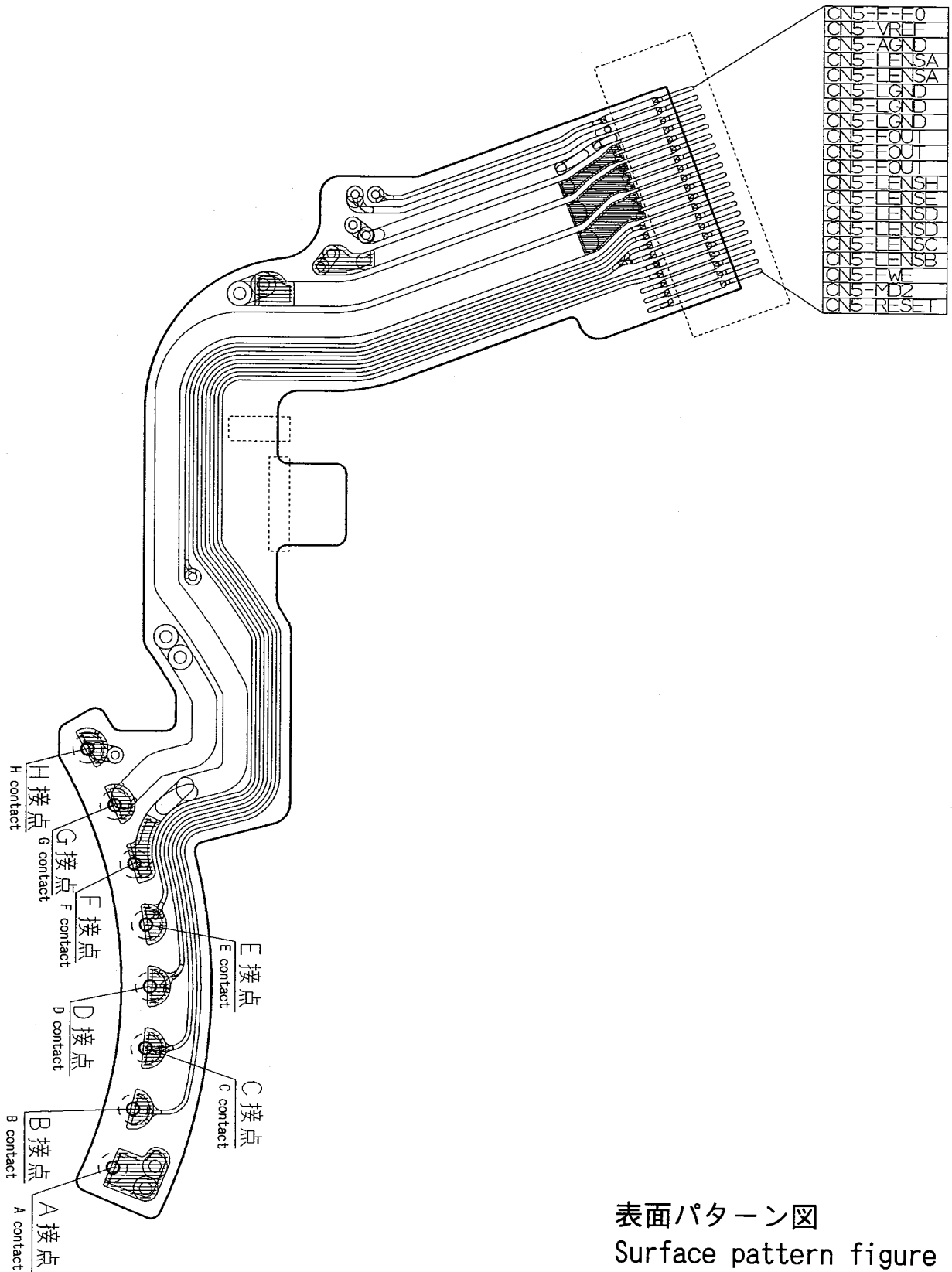
裏面パターン図
Reverse pattern figure

給送 - P I F P C
FILM ADVANCE P I F P C



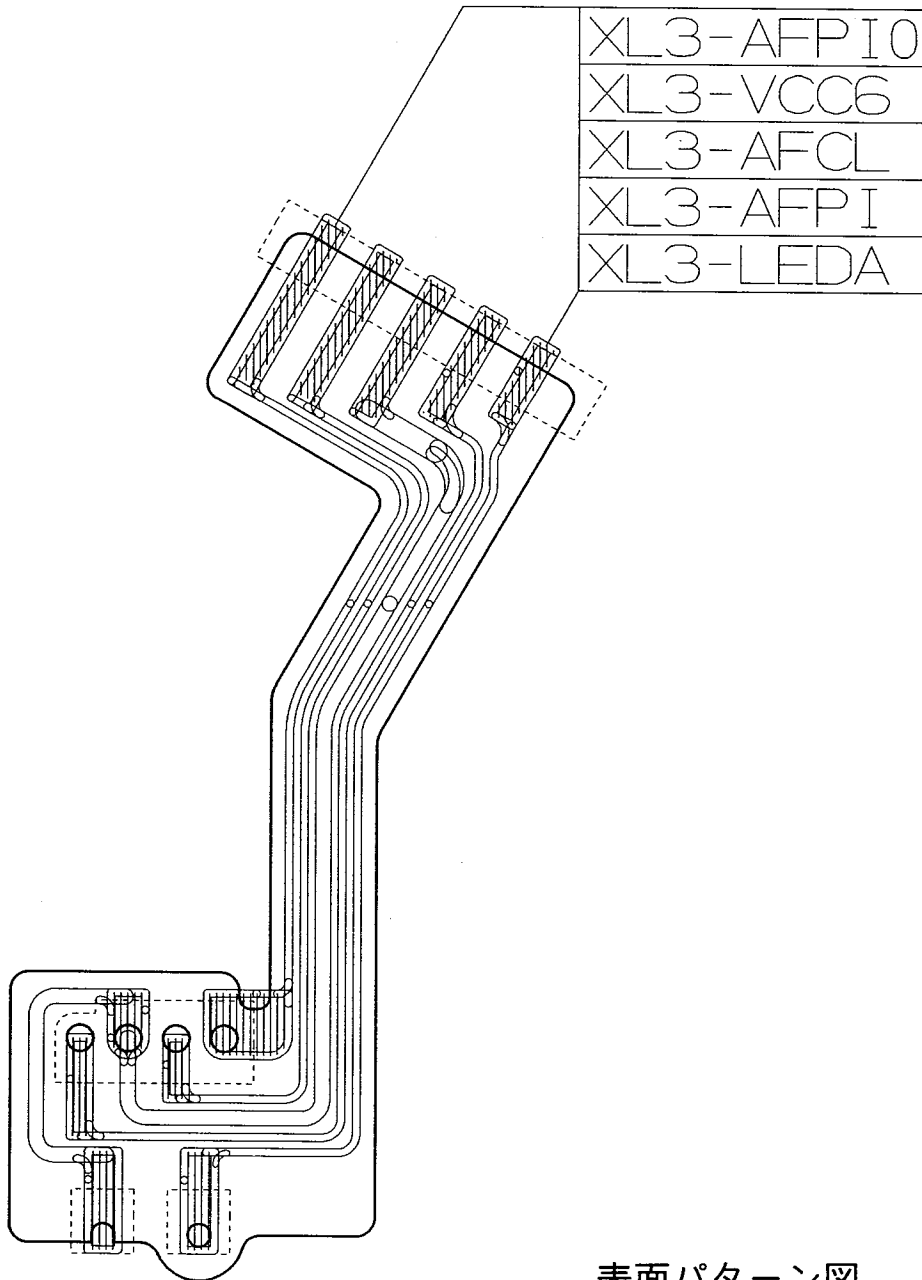


レンズ接点FPC
LENS CONTACT FPC



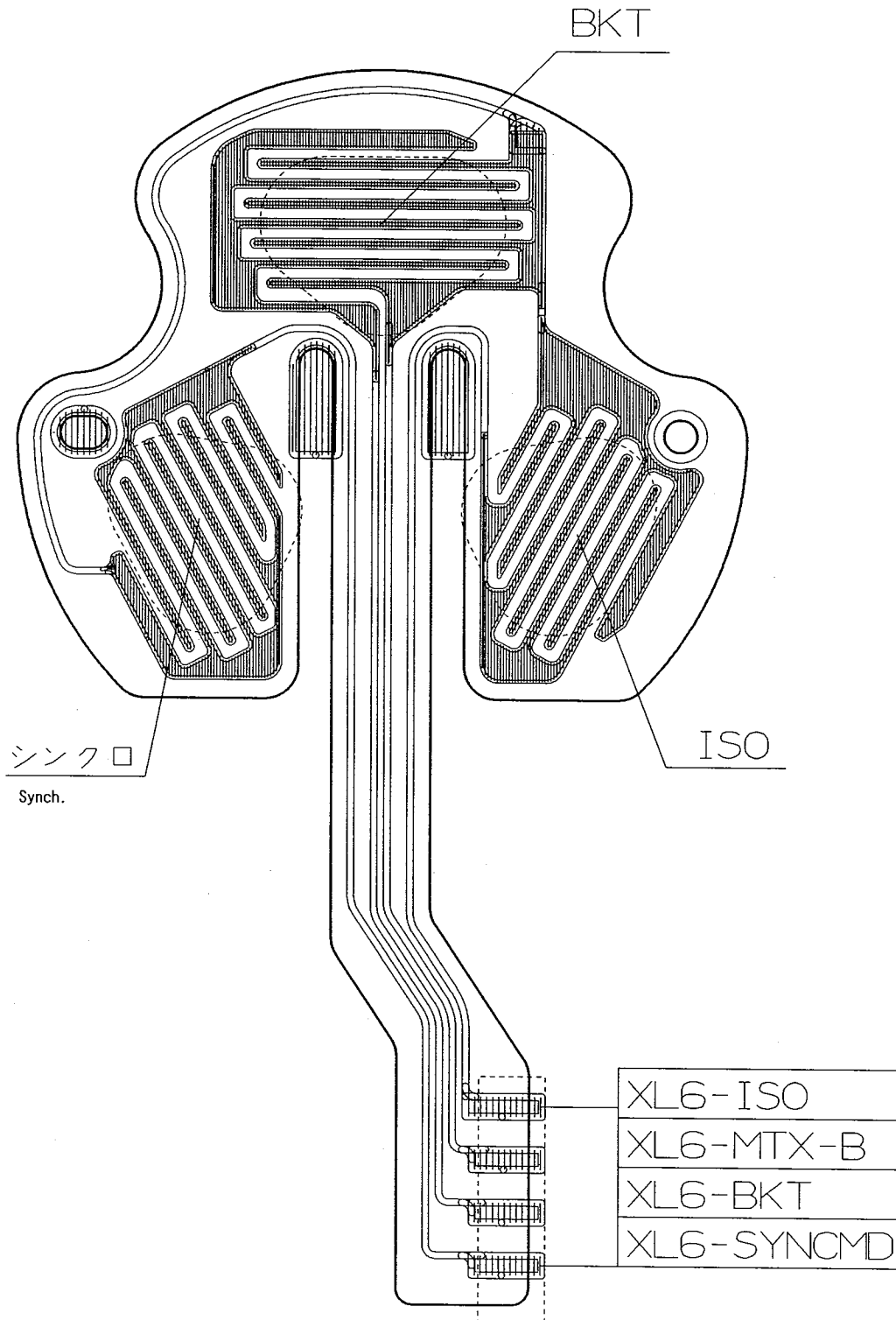
表面パターン図
Surface pattern figure

F-P I FPC



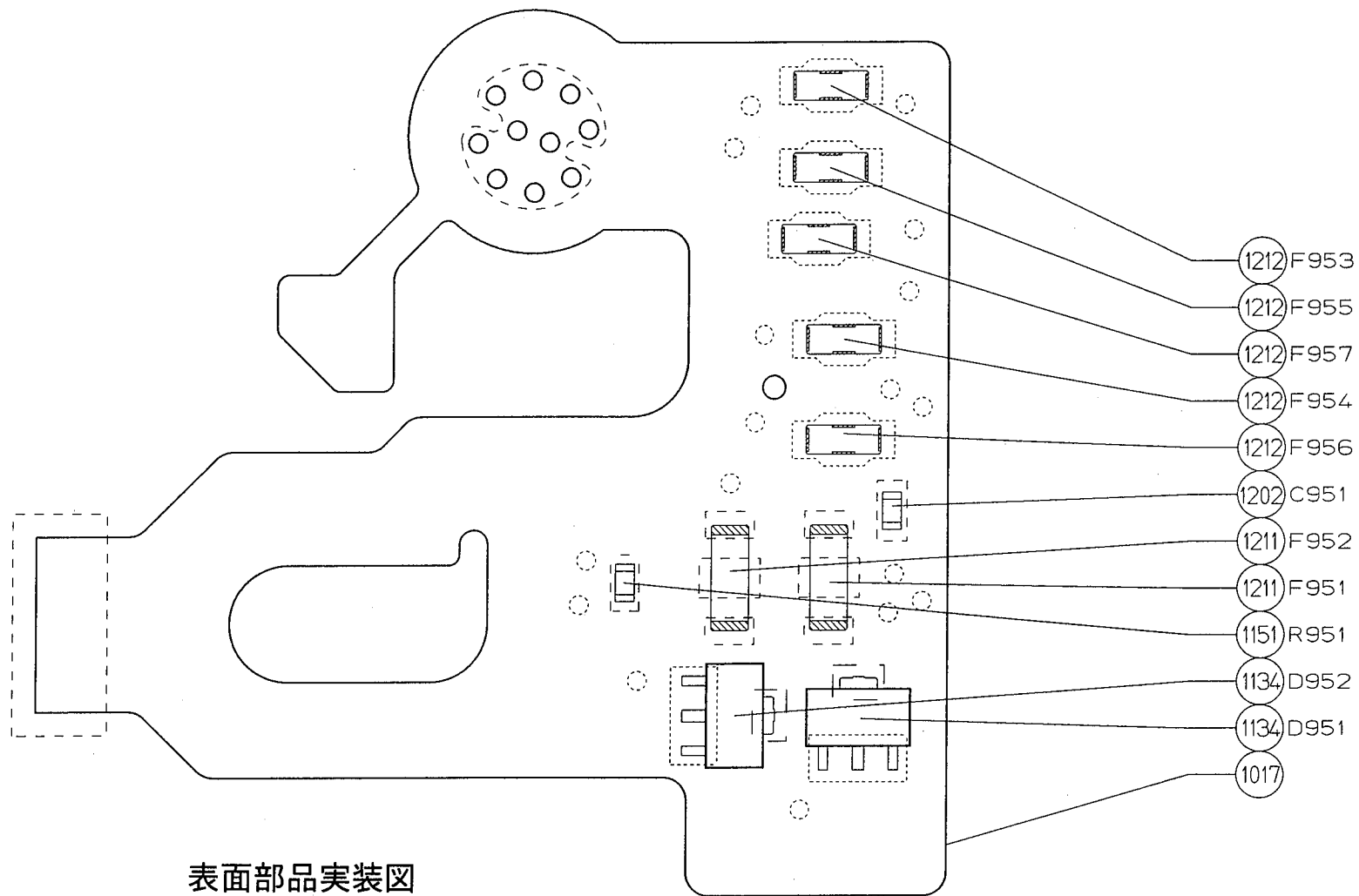
表面パターン図
Surface pattern figure

三つ葉FPC
 Triple operations FPC

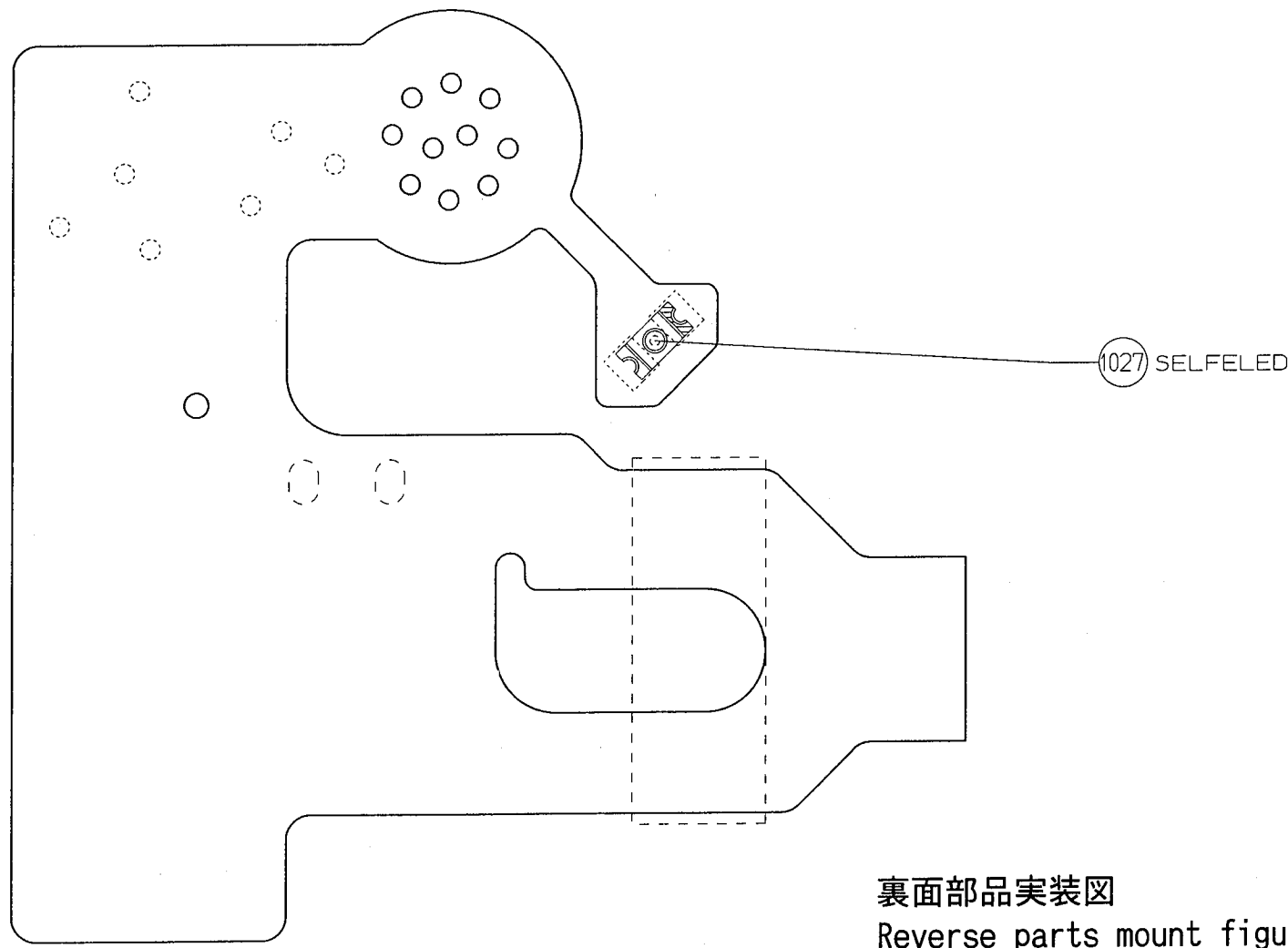


表面パターン図
 Surface pattern figure

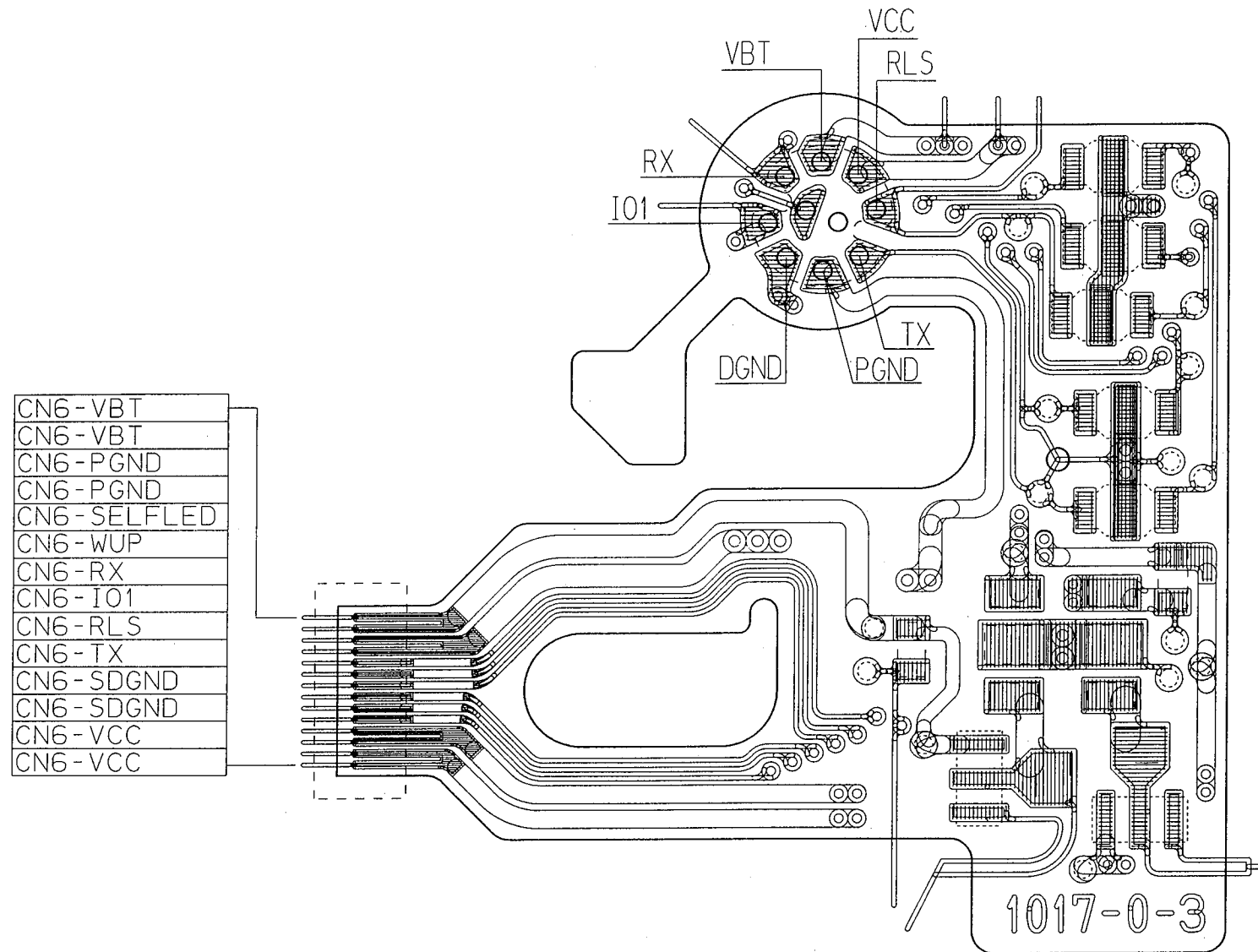
10ピンターミナルFPC
10 PIN TERMINAL FPC



表面部品実装図
Surface parts mount figure



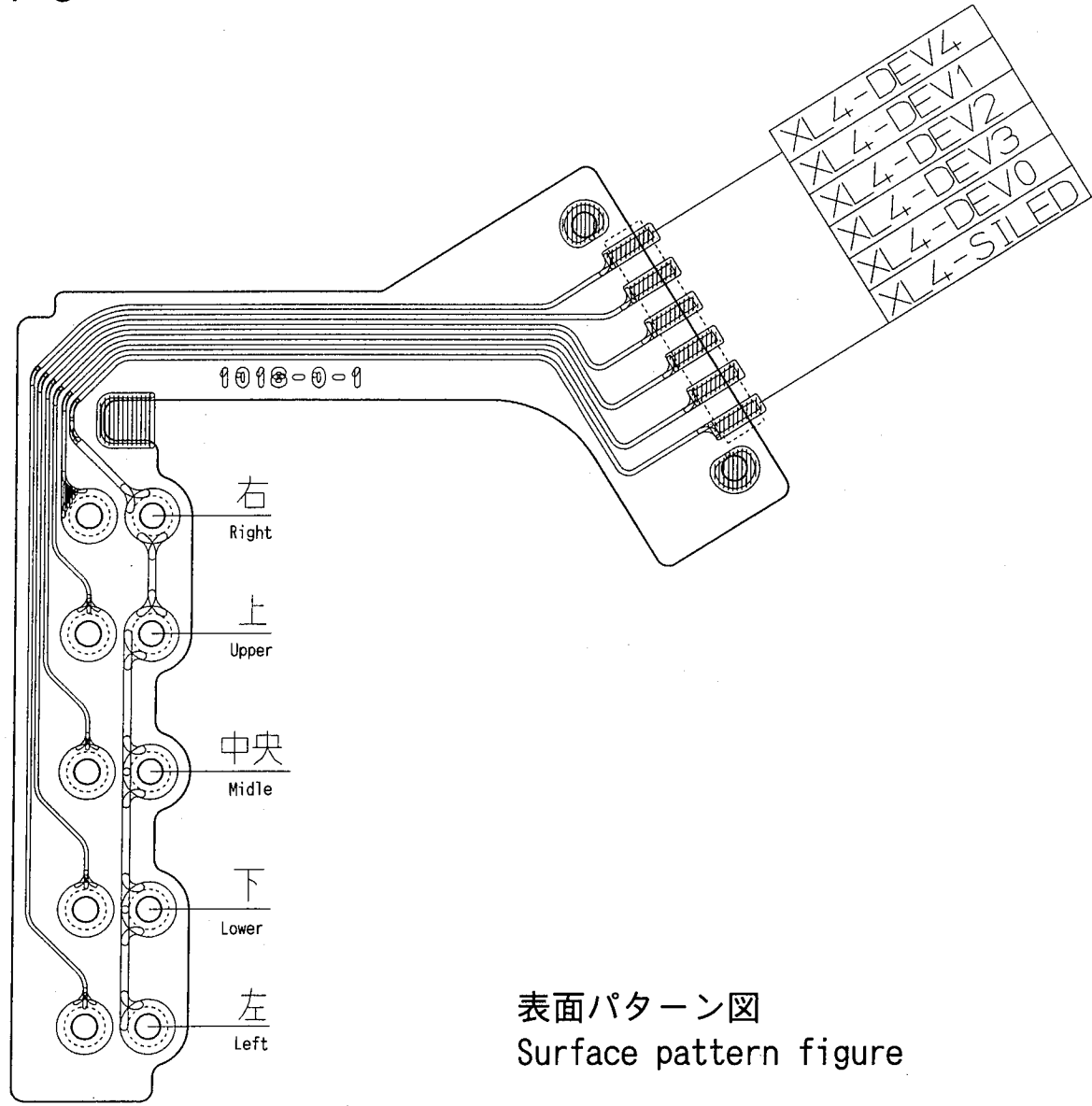
裏面部品実装図
Reverse parts mount figure



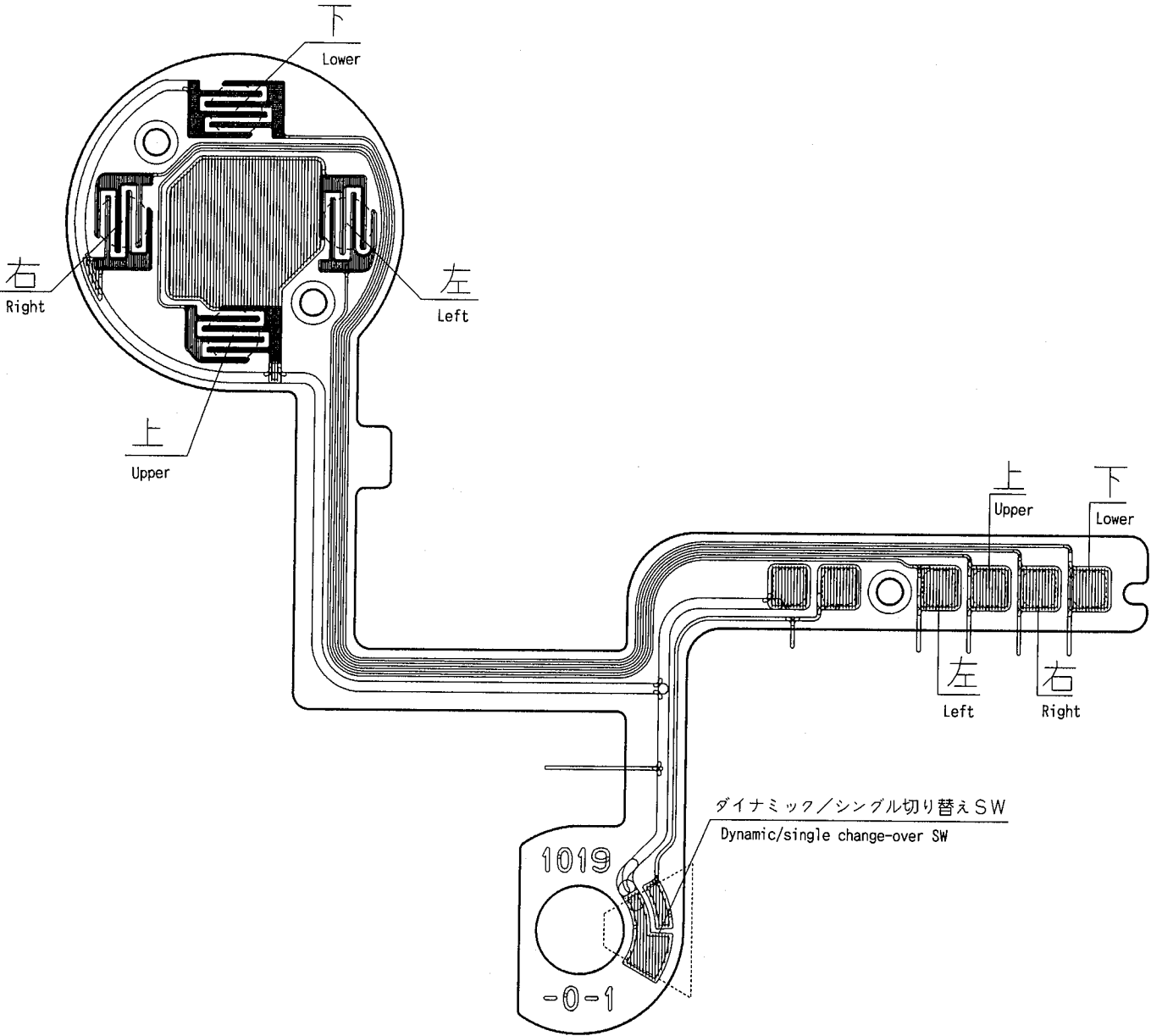
表面パターン図
Surface pattern figure

-E 32 · 100-

S · I F P C

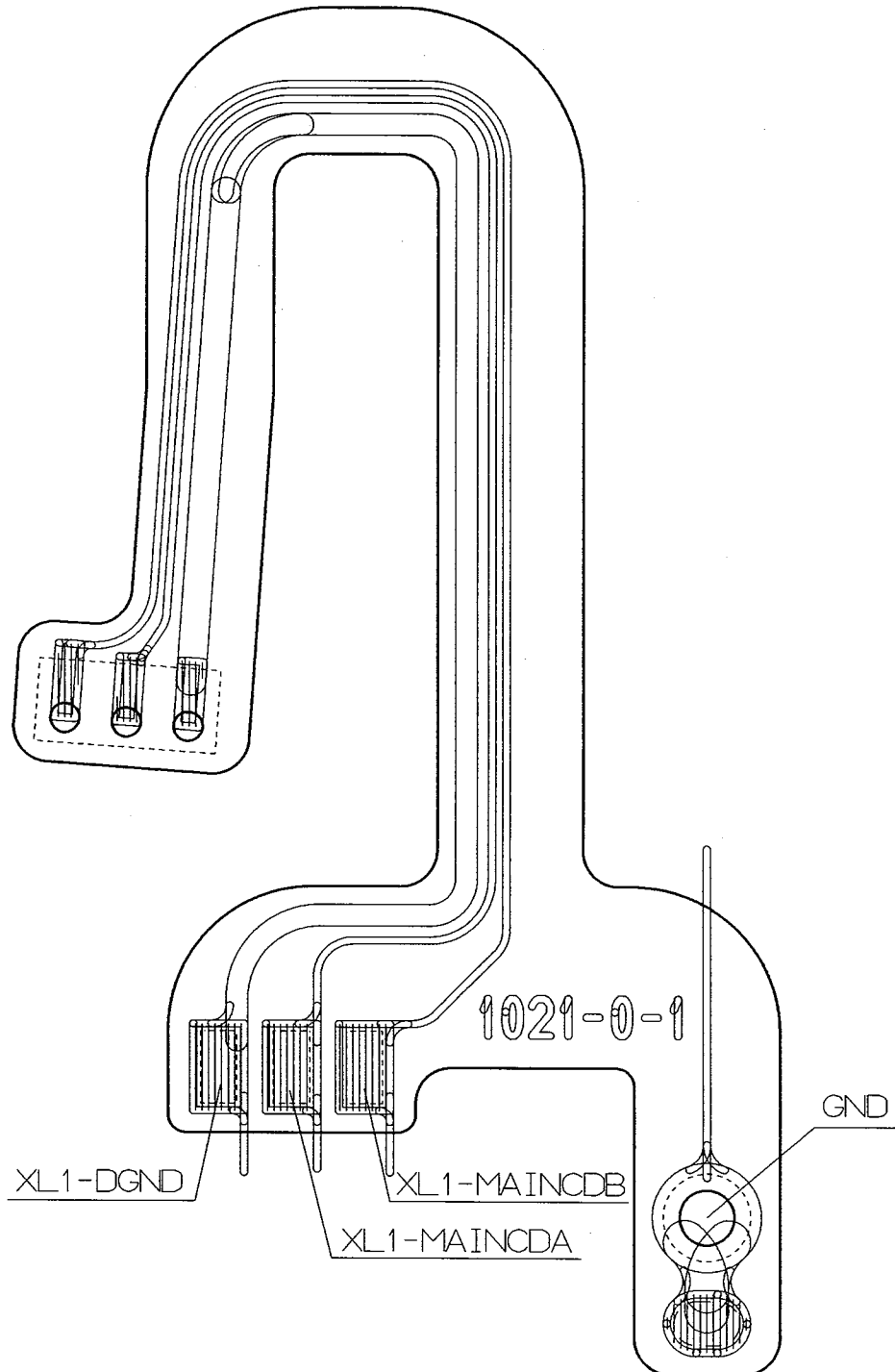


表面パターン図
Surface pattern figure



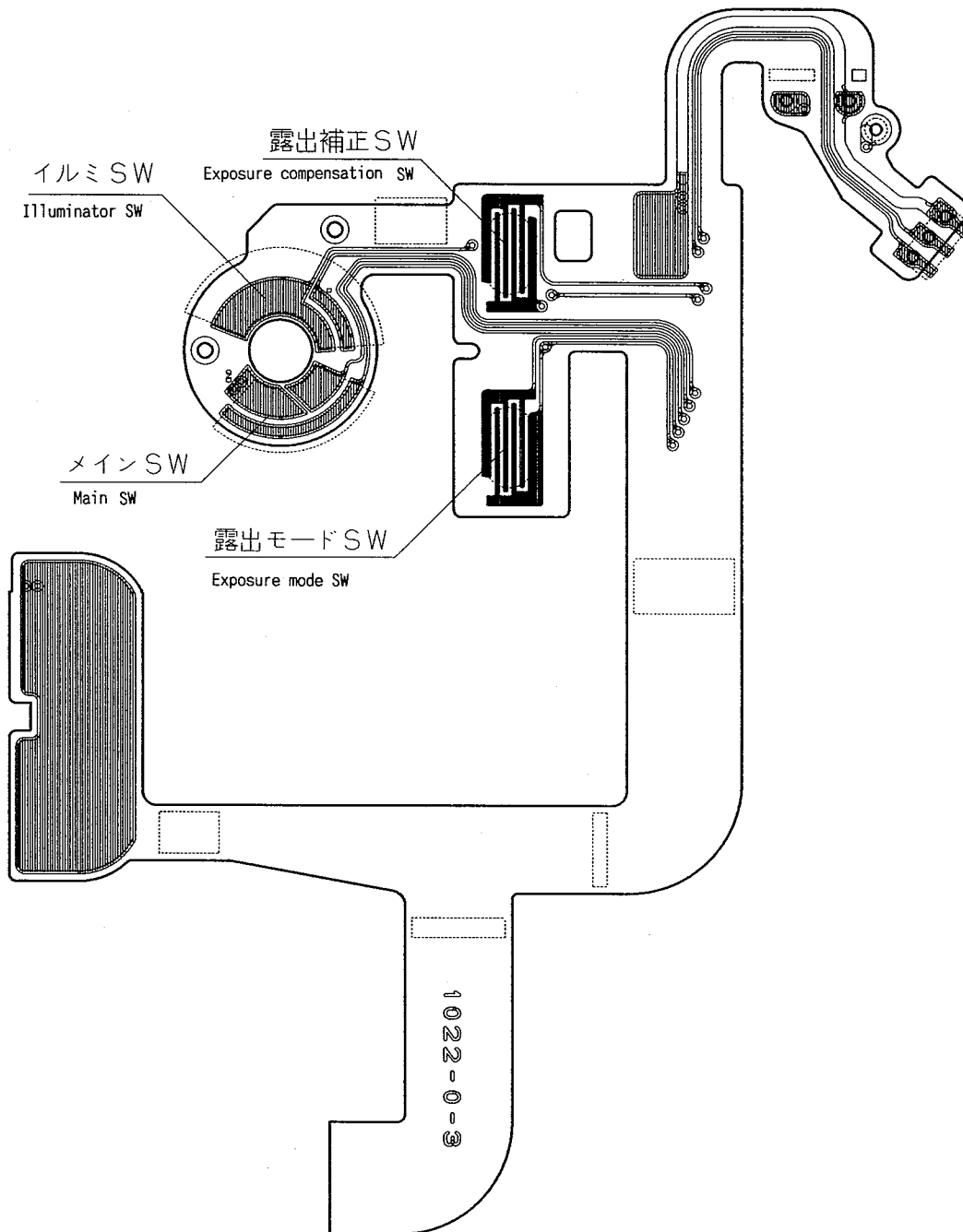
表面パターン図
Surface pattern figure

後コマンドダイヤルFPC
REAR COMMAND DIAL FPC



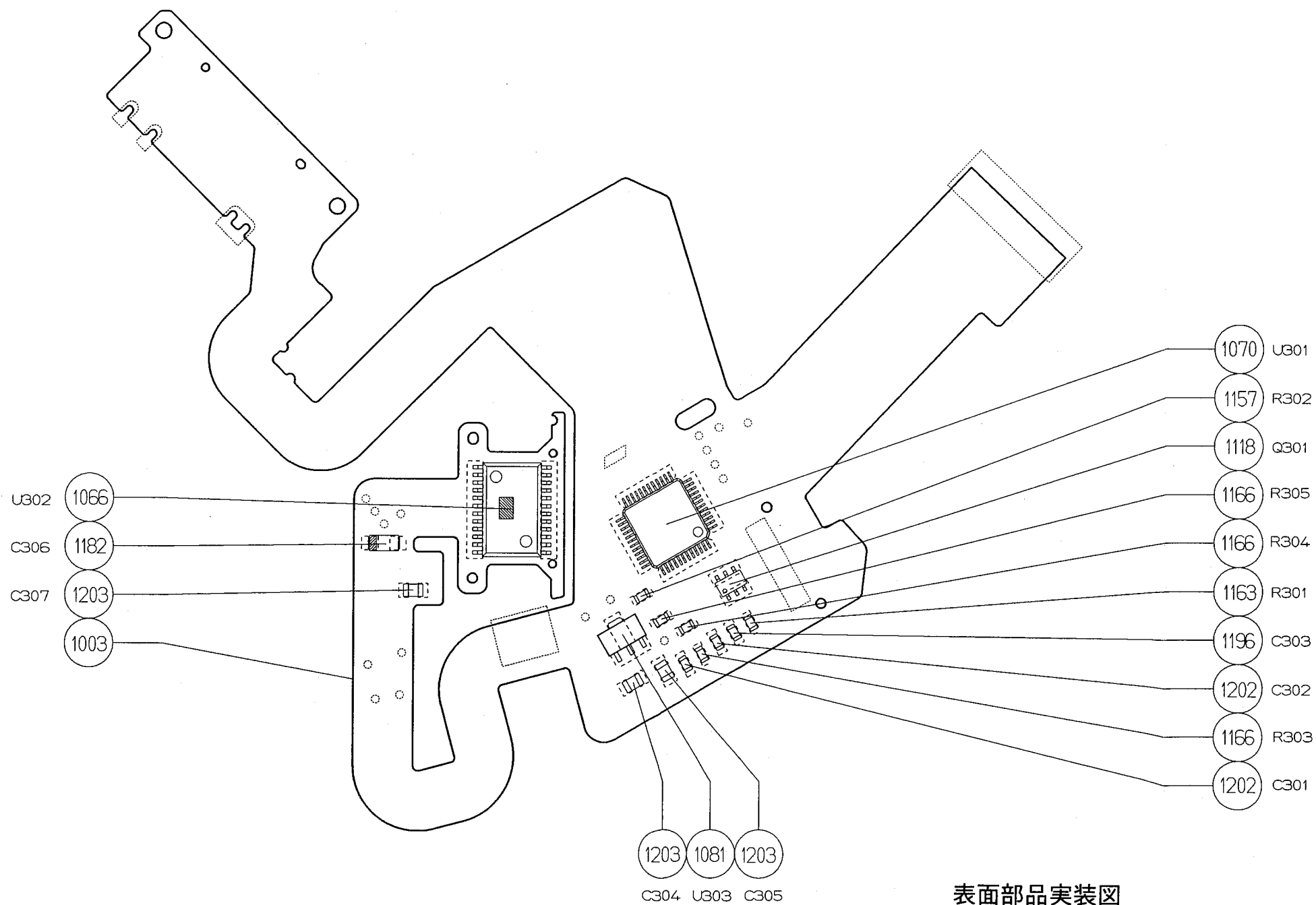
表面パターン図
Surface pattern figure

前コマンドダイヤルFPC
FRONT COMMAND DIAL FPC

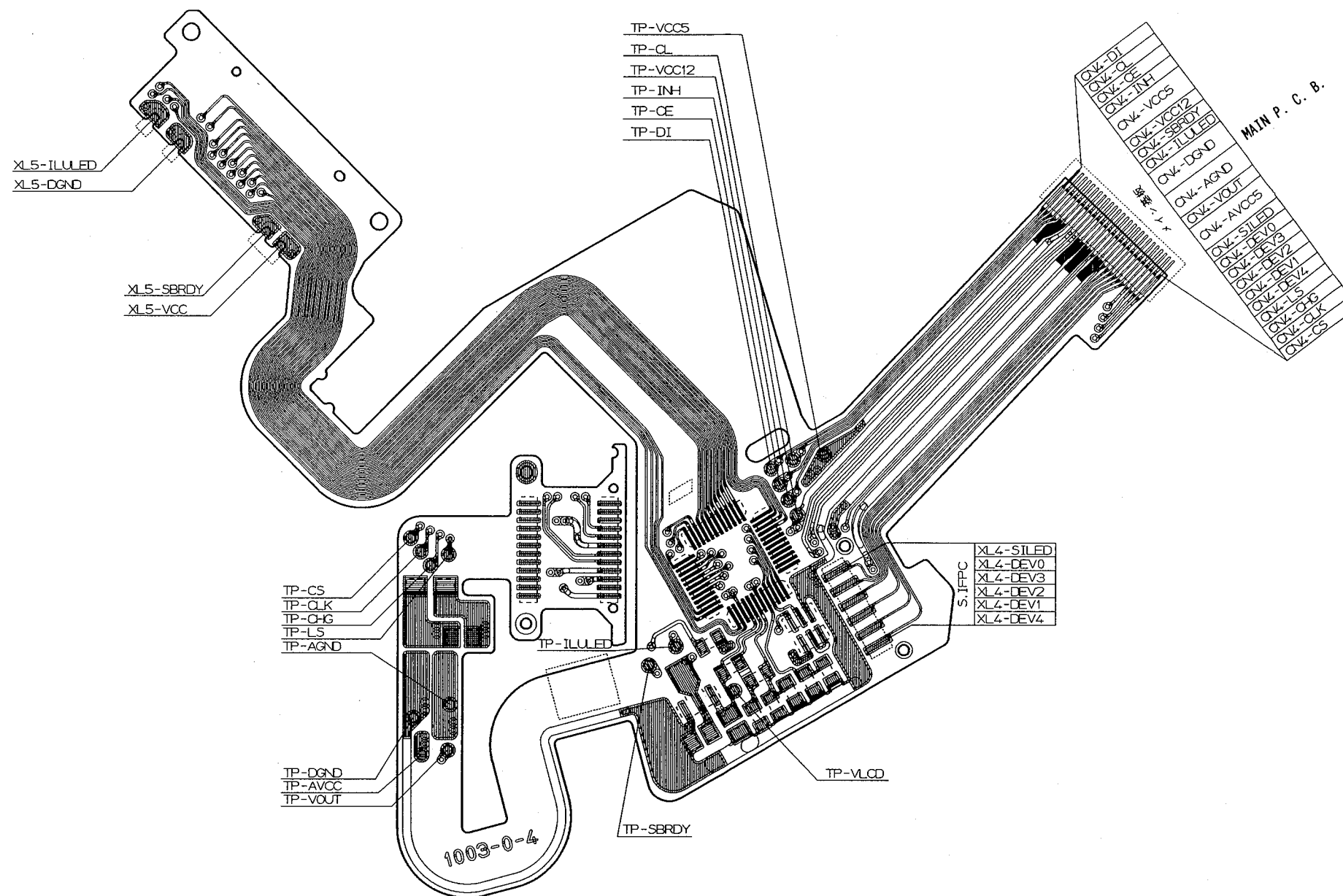


表面パターン図
Surface pattern figure

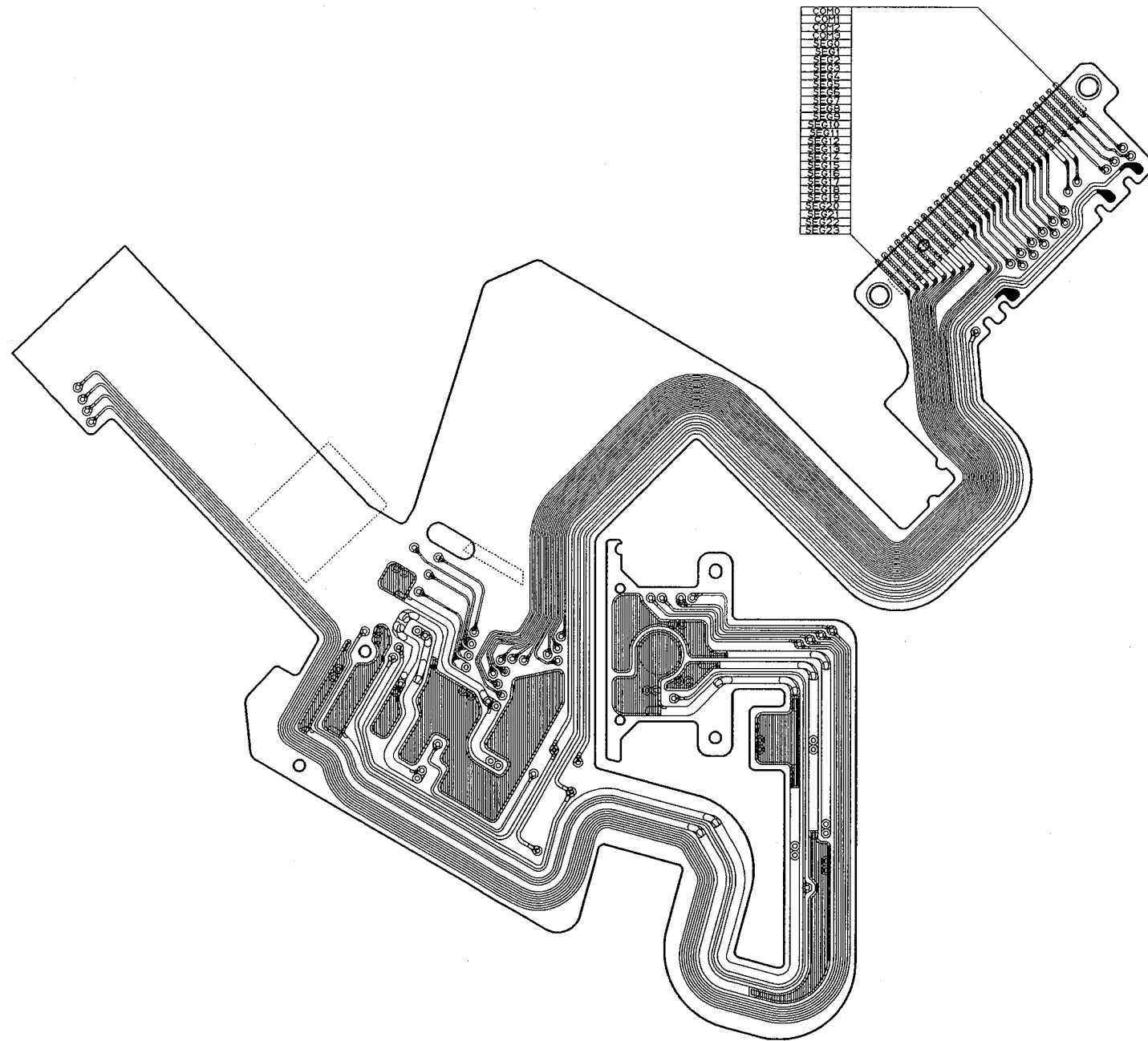
測光/内LCD FPC
Metering/In LCD FPC



表面部品実装図
Surface parts mount figure



表面パターン図
Surface pattern figure



裏面パターン図
Reverse pattern figure

JUL. 8, 1999

F100 EEPROM MAP

ADDRESS	CONTENTS	VER.4.XX		REMARKS
32 (0020)	(TTL LEVEL)	0 (00)		UNUSED FOR ADJUSTMENT
33 (0021)	TTL FLASH GAMMA	135 (87)		
34 (0022)	TTL FLASH LEVEL	110 (6E)		
38 (0026)		110 (6E)		
39 (0027)		TTL MONITOR PRE FLASH GAMMA	120 (78)	
40 (0028)	TTL MONITOR PRE FLASH LEVEL	135 (87)		
44 (002C)		135 (87)		
(002D)	CAMERA CONTROL DATA	72 (48)		
(002E)	〃	197 (C5)		
(002F)	〃	0 (00)		
(0030)	〃	39 (27)		
49 (0031)	BC ADJUSTMENT	122 (7A)		
50 (0032)	TEMPERATURE DETECTION ADJUSTMENT DATA	2 (02)		
51 (0033)	〃	250 (FA)		
52 (0034)	〃	1 (01)		
53 (0035)	〃	42 (2A)		
(0036)	BC ADJUSTMENT	102 (66)		UNUSED FOR ADJUSTMENT
(0037)	〃	92 (5C)		〃
(0038)	〃	96 (60)		〃
(0039)	〃	86 (56)		〃
(003A)	〃	0 (00)		〃
(003B)	〃	0 (00)		〃
(003C)	〃	106 (6A)		〃
(003D)	〃	89 (59)		〃
(003E)	〃	102 (66)		〃
(003F)	〃	84 (54)		〃
(0040)	〃	2 (02)		〃
(0041)	〃	209 (D1)		〃
(0042)	〃	147 (93)		〃
(0043)	〃	133 (85)		〃
(0044)	〃	143 (8F)		〃
(0045)	〃	122 (7A)		〃



ADDRESS	CONTENTS	VER.4.XX		REMARKS
(0046)	BC ADJUSTMENT	1 (01)		UNUSED FOR ADJUSTMENT
(0047)	〃	44 (2C)		〃
(0048)	〃	155 (9B)		〃
(0049)	〃	129 (81)		〃
(004A)	〃	153 (99)		〃
(004B)	〃	113 (71)		〃
(004C)	〃	4 (04)		〃
(004D)	〃	179 (B3)		〃
78 (004E)	M1/8000 ADJUSTMENT DATA	0 (00)		
79 (004F)	〃	0 (00)		
(0050)	CAMERA CONTROL DATA	40 (28)		
(0051)	〃	45 (2D)		
(0052)	〃	5 (05)		
(0053)	〃	12 (0C)		
(0054)	〃	5 (05)		
(0055)	〃	19 (13)		
(0056)	〃	5 (05)		
(0057)	〃	11 (0B)		
(0058)	〃	11 (0B)		
(0059)	〃	6 (06)		
(005A)	〃	11 (0B)		
(005B)	〃	11 (0B)		
(005C)	〃	6 (06)		
(005D)	〃	0 (00)		
(005E)	〃	0 (00)		
(005F)	〃	7 (07)		
(0060)	〃	0 (00)		
(0061)	〃	0 (00)		
(0062)	〃	15 (0F)		
(0063)	〃	1 (01)		
(0064)	〃	50 (32)		
(0065)	〃	30 (1E)		
(0066)	〃	60 (3C)		
(0067)	〃	100 (64)		
(0068)	〃	70 (46)		
(0069)	〃	150 (96)		
(006A)	〃	6 (06)		
(006B)	〃	41 (29)		



ADDRESS	CONTENTS	VER.4.XX		REMARKS
(006C)	CAMERA CONTROL DATA	30 (1E)		
(006D)	〃	30 (1E)		
(006E)	〃	43 (2B)		
(006F)	〃	145 (91)		
(0070)	〃	166 (A6)		
(0071)	〃	30 (1E)		
(0072)	〃	6 (06)		
(0073)	〃	0 (00)		
(0074)	〃	25 (19)		
(0075)	〃	5 (05)		
(0076)	〃	11 (0B)		
(0077)	〃	6 (06)		
(0078)	〃	50 (32)		
(0079)	〃	50 (32)		
(007A)	〃	36 (24)		
(007B)	〃	47 (2F)		
(007C)	〃	26 (1A)		
(007D)	〃	50 (32)		
(007E)	〃	19 (13)		
(007F)	〃	2 (02)		
(0080)	〃	3 (03)		
129 (0081)	FILM TONGUE	63 (3F)		
130 (0082)	〃	125 (7D)		
(0083)	CAMERA CONTROL DATA	5 (05)		
(0084)	〃	10 (0A)		
133 (0085)	〃	128 (80)		
(0086)	〃	255 (FF)		
(0087)	〃	0 (00)		
(0088)	〃	1 (01)		
(0089)	〃	104 (68)		
(008A)	〃	255 (FF)		
(008B)	〃	88 (58)		
(008C)	〃	32 (20)		
(008D)	〃	0 (00)		
142 (008E)	AE LEVEL	128 (80)		
151 (0097)		128 (80)		
152 (0098)	AE GAMMA	128 (80)		



ADDRESS	CONTENTS	VER.4.XX		REMARKS
153 (0099)	AE RANGE	128 (80)		
154 (009A)	AF ADJUSTMENT	0 (00)		
1605 (0645)		0 (00)		
1606 (0646)	〃	119 (77)		
1607 (0647)	〃	85 (55)		
1608 (0648)	〃	34 (22)		
1608 (0649)	〃	34 (22)		
1610 (064A)	〃	102 (66)		
1611 (064B)	〃	102 (66)		
1612 (064C)	〃	119 (77)		
1613 (064D)	〃	170 (AA)		
1614 (064E)	〃	102 (66)		
1615 (064F)	〃	68 (44)		
1616 (0650)	〃	119 (77)		
1617 (0651)	〃	170 (AA)		
1618 (0652)	〃	102 (66)		
1619 (0653)	〃	68 (44)		
1620 (0654)	〃	0 (00)		
1731 (06C3)		0 (00)		
1732 (06C4)	〃	0 (00)		
1733 (06C5)	〃	25 (19)		
1734 (06C6)	〃	240 (F0)		
1761 (06E1)		240 (F0)		
1762 (06E2)	CAMERA CONTROL DATA	64 (40)		
1763 (06E3)	〃	88 (58)		
1764 (06E4)	〃	47 (2F)		
1765 (06E5)	〃	64 (40)		
1766 (06E6)	〃	44 (2C)		
1767 (06E7)	〃	46 (2E)		
1768 (06E8)	〃	40 (28)		
1769 (06E9)	〃	58 (3A)		
1770 (06EA)	〃	28 (1C)		
1771 (06EB)	〃	40 (28)		
1772 (06EC)	〃	39 (27)		
1773 (06ED)	〃	54 (36)		



ADDRESS	CONTENTS	VER.4.XX		REMARKS
1774 (06EE)	CAMERA CONTROL DATA	28 (1C)		
1775 (06EF)	〃	37 (25)		
1776 (06F0)		0 (00)		
	〃			
1789 (06FD)		0 (00)		
1790 (06FE)	〃	194 (C2)		
1791 (06FF)	〃	7 (07)		
1792 (0700)	〃	5 (05)		
1793 (0701)	〃	245 (F5)		
1794 (0702)	〃	248 (F8)		
1795 (0703)	〃	0 (00)		
1796 (0704)	〃	0 (00)		
1797 (0705)	〃	0 (00)		
1798 (0706)	〃	0 (00)		
1799 (0707)	〃	51 (33)		
1800 (0708)	〃	0 (00)		
1801 (0709)	〃	0 (00)		
1802 (070A)	〃	0 (00)		
1803 (070B)	〃	170 (AA)		
1804 (070C)	〃	5 (05)		
1805 (070D)	〃	20 (14)		
1806 (070E)	〃	4 (04)		
1807 (070F)	〃	179 (B3)		
1808 (0710)	〃	51 (33)		
1809 (0711)	〃	58 (3A)		
1810 (0712)	〃	0 (00)		
1811 (0713)	〃	40 (28)		
1812 (0714)	〃	16 (10)		
1813 (0715)	〃	0 (00)		
1814 (0716)	〃	0 (00)		
1815 (0717)	〃	122 (7A)		
1816 (0718)	〃	10 (0A)		
1817 (0719)	〃	2 (02)		
1818 (071A)	〃	4 (04)		
1819 (071B)	〃	3 (03)		
1820 (071C)	〃	240 (F0)		
1821 (071D)	〃	246 (F6)		
1822 (071E)	〃	2 (02)		



ADDRESS	CONTENTS	VER.4.XX		REMARKS
1823 (071F)	CAMERA CONTROL DATA	14 (0E)		
1824 (0720)	〃	26 (1A)		
1825 (0721)	〃	38 (26)		
1826 (0722)	〃	50 (32)		
1827 (0723)	〃	62 (3E)		
1828 (0724)	〃	74 (4A)		
1829 (0725)	〃	246 (F6)		
1830 (0726)	〃	2 (02)		
1831 (0727)	〃	14 (0E)		
1832 (0728)	〃	26 (1A)		
1833 (0729)	〃	38 (26)		
1834 (072A)	〃	50 (32)		
1835 (072B)	〃	70 (46)		
1836 (072C)	〃	74 (4A)		
1837 (072D)	〃	254 (FE)		
1838 (072E)	〃	9 (09)		
1839 (072F)	〃	26 (1A)		
1840 (0730)	〃	38 (26)		
1841 (0731)	〃	50 (32)		
1842 (0732)	〃	62 (3E)		
1843 (0733)	〃	74 (4A)		
1844 (0734)	〃	58 (3A)		
1845 (0735)	〃	5 (05)		
1846 (0736)	〃	80 (50)		
1847 (0737)	〃	32 (20)		
1848 (0738)	〃	20 (14)		
1849 (0739)	〃	23 (17)		
1850 (073A)	〃	32 (20)		
1851 (073B)	〃	51 (33)		
1852 (073C)	〃	51 (33)		
1853 (073D)	〃	104 (68)		
1854 (073E)	〃	10 (0A)		
1855 (073F)	〃	32 (20)		
1856 (0740)	〃	64 (40)		
1857 (0741)	〃	24 (18)		
1858 (0742)	〃	36 (24)		
1859 (0743)	〃	64 (40)		
1860 (0744)	〃	32 (20)		



ADDRESS	CONTENTS	VER.4.XX		REMARKS
1861 (0745)	CAMERA CONTROL DATA	38 (26)		
1862 (0746)	〃	64 (40)		
1863 (0747)	〃	13 (0D)		
1864 (0748)	〃	128 (80)		
1865 (0749)	〃	25 (19)		
1866 (074A)	〃	100 (64)		
1867 (074B)	〃	205 (CD)		
1868 (074C)	〃	26 (1A)		
1869 (074D)	〃	1 (01)		
1870 (074E)	〃	1 (01)		
1871 (074F)	〃	0 (00)		
1872 (0750)	〃	0 (00)		
1873 (0751)	〃	0 (00)		
1874 (0752)	〃	102 (66)		
1875 (0753)	〃	63 (3F)		
1876 (0754)	〃	102 (66)		
1877 (0755)	〃	63 (3F)		
1878 (0756)	〃	150 (96)		
1879 (0757)	〃	20 (14)		
1880 (0758)	〃	80 (50)		
1881 (0759)	〃	200 (C8)		
1882 (075A)	〃	0 (00)		
1883 (075B)	〃	12 (0C)		
1884 (075C)	〃	102 (66)		
1885 (075D)	〃	63 (3F)		
1886 (075E)	〃	6 (06)		
1887 (075F)	〃	63 (37)		
1888 (0760)	〃	6 (89)		
1889 (0761)	〃	55 (35)		
1890 (0762)	〃	137 (89)		
1891 (0763)	〃	53 (35)		
1892 (0764)	〃	6 (06)		
1893 (0765)	〃	53 (35)		
1894 (0766)	〃	137 (89)		
1895 (0767)	〃	54 (36)		
1896 (0768)	〃	3 (03)		
1897 (0769)	〃	232 (E8)		
1898 (076A)	〃	40 (28)		



ADDRESS	CONTENTS	VER.4.XX		REMARKS
1899 (076B)	CAMERA CONTROL DATA	40 (28)		
1900 (076C)	〃	100 (64)		
1901 (076D)	〃	0 (00)		
1902 (076E)	〃	0 (00)		
1903 (076F)	〃	0 (00)		
1904 (0770)	〃	0 (00)		
1905 (0771)	〃	0 (00)		
1906 (0772)	〃	18 (12)		
1907 (0773)	〃	132 (84)		
1908 (0774)	〃	60 (3C)		
1909 (0775)	〃	45 (2D)		
1910 (0776)	〃	30 (1E)		
1911 (0777)	〃	20 (14)		
1912 (0778)	〃	0 (00)		
1913 (0779)	〃	125 (7D)		
1914 (077A)	〃	125 (7D)		
1915 (077B)	〃	1 (01)		
1916 (077C)	〃	0 (00)		
1917 (077D)	〃	0 (00)		
1918 (077E)	〃	48 (30)		
1919 (077F)	〃	16 (10)		
1920 (0780)	〃	58 (3A)		
1921 (0781)	〃	0 (00)		
1922 (0782)	〃	48 (30)		
1923 (0783)	〃	16 (10)		
1924 (0784)	〃	58 (3A)		
1925 (0785)	〃	0 (00)		
1926 (0786)	〃	48 (30)		
1927 (0787)	〃	16 (10)		
1928 (0788)	〃	58 (3A)		
1929 (0789)	〃	0 (00)		
1930 (078A)	〃	0 (00)		
1931 (078B)	〃	200 (C8)		
1932 (078C)	〃	7 (07)		
1933 (078D)	〃	208 (D0)		
1934 (078E)	〃	10 (0A)		
1935 (078F)	〃	30 (1E)		
1936 (0790)	〃	200 (C8)		



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F100 EEPROM MAP

ADDRESS	CONTENTS	VER.5.XX	REMARKS
32 (0020)	(TTL LEVEL)	0 (00)	UNUSED FOR ADJUSTMENT
33 (0021)	TTL FLASH GAMMA	135 (87)	
34 (0022)	TTL FLASH LEVEL	110 (6E)	
38 (0026)		110 (6E)	
39 (0027)		TTL MONITOR PRE FLASH GAMMA	120 (78)
40 (0028)	TTL MONITOR PRE FLASH LEVEL	135 (87)	
44 (002C)		135 (87)	
(002D)	CAMERA CONTROL DATA	197 (C5)	
(002E)	∕	39 (27)	
47 (002F)	BC ADJUSTMENT	122 (7A)	
48 (0030)	TEMPERATURE DETECTION ADJUSTMENT DATA	2 (02)	
49 (0031)	∕	250 (FA)	
50 (0032)	∕	1 (01)	
51 (0033)	∕	42 (2A)	
(0034)	BC ADJUSTMENT	102 (66)	UNUSED FOR ADJUSTMENT
(0035)	∕	92 (5C)	∕
(0036)	∕	96 (60)	∕
(0037)	∕	86 (56)	∕
(0038)	∕	0 (00)	∕
(0039)	∕	0 (00)	∕
(003A)	∕	106 (6A)	∕
(003B)	∕	89 (59)	∕
(003C)	∕	102 (66)	∕
(003D)	∕	84 (54)	∕
(003E)	∕	2 (02)	∕
(003F)	∕	209 (D1)	∕
(0040)	∕	147 (93)	∕
(0041)	∕	133 (85)	∕
(0042)	∕	143 (8F)	∕
(0043)	∕	122 (7A)	∕
(0044)	∕	1 (01)	∕
(0045)	∕	44 (2C)	∕



ADDRESS	CONTENTS	VER.5.XX		REMARKS
(0046)	BC ADJUSTMENT	155 (9B)		UNUSED FOR ADJUSTMENT
(0047)	〃	129 (81)		〃
(0048)	〃	153 (99)		〃
(0049)	〃	113 (71)		〃
(004A)	〃	4 (04)		〃
(004B)	〃	179 (B3)		〃
76 (004C)	M1/8000 ADJUSTMENT DATA	0 (00)		
77 (004D)	〃	0 (00)		
(004E)	CAMERA CONTROL DATA	40 (28)		
(004F)	〃	45 (2D)		
(0050)	〃	5 (05)		
(0051)	〃	19 (13)		
(0052)	〃	11 (0B)		
(0053)	〃	11 (0B)		
(0054)	〃	6 (06)		
(0055)	〃	11 (0B)		
(0056)	〃	11 (0B)		
(0057)	〃	6 (06)		
(0058)	〃	7 (07)		
(0059)	〃	15 (0F)		
(005A)	〃	50 (32)		
(005B)	〃	30 (1E)		
(005C)	〃	60 (3C)		
(005D)	〃	100 (64)		
(005E)	〃	70 (46)		
(005F)	〃	150 (96)		
(0060)	〃	6 (06)		
(0061)	〃	41 (29)		
(0062)	〃	166 (A6)		
(0063)	〃	30 (1E)		
(0064)	〃	6 (06)		
(0065)	〃	25 (19)		
(0066)	〃	11 (0B)		
(0067)	〃	6 (06)		
(0068)	〃	50 (32)		
(0069)	〃	36 (24)		
(006A)	〃	47 (2F)		
(006B)	〃	26 (1A)		



ADDRESS	CONTENTS	VER.5.XX		REMARKS
(006C)	CAMERA CONTROL DATA	19 (13)		
(006D)	〃	3 (03)		
110 (006E)	FILM TONGUE	63 (3F)		
111 (006F)	〃	125 (7D)		
(0070)	CAMERA CONTROL DATA	5 (05)		
(0071)	〃	10 (0A)		
114 (0072)	〃	128 (80)		
(0073)	〃	255 (FF)		
(0074)	〃	0 (00)		
117 (0075)	AE LEVEL	128 (80)		
126 (007E)		128 (80)		
127 (007F)	AE GUMMA	128 (80)		
128 (0080)	AE RANGE	128 (80)		
129 (0081)	AF ADJUSTMENT	0 (00)		
1580 (062C)		0 (00)		
1581 (062D)	〃	119 (77)		
1582 (062E)	〃	85 (55)		
1583 (062F)	〃	34 (22)		
1584 (0630)	〃	34 (22)		
1585 (0631)	〃	102 (66)		
1586 (0632)	〃	102 (66)		
1587 (0633)	〃	119 (77)		
1588 (0634)	〃	170 (AA)		
1589 (0635)	〃	102 (66)		
1590 (0636)	〃	68 (44)		
1591 (0637)	〃	119 (77)		
1592 (0638)	〃	170 (AA)		
1593 (0639)	〃	102 (66)		
1594 (063A)	〃	68 (44)		
1595 (063B)	〃	0 (00)		
1596 (063C)	〃	0 (00)		
1707 (06AB)		0 (00)		
1708 (06AC)	〃	25 (19)		
1709 (06AD)	〃	240 (F0)		



ADDRESS	CONTENTS	VER.5.XX		REMARKS
1736 (06C8)	AF ADJUSTMENT	240 (F0)		
1737 (06C9)	CAMERA CONTROL DATA	0 (00)		
1741 (06CD)		0 (00)		
1742 (06CE)		58 (3A)		
1743 (06CF)	〃	20 (14)		
1744 (06D0)	〃	23 (17)		
1745 (06D1)	〃	32 (20)		
1746 (06D2)	〃	51 (33)		
1747 (06D3)	〃	10 (0A)		
1748 (06D4)	〃	32 (20)		
1749 (06D5)	〃	102 (66)		
1750 (06D6)	〃	36 (24)		
1751 (06D7)	〃	64 (40)		
1752 (06D8)	〃	38 (26)		
1753 (06D9)	〃	64 (40)		
1754 (06DA)	〃	13 (0D)		
1755 (06DB)	〃	128 (80)		
1756 (06DC)	〃	26 (1A)		
1757 (06DD)	〃	16 (10)		
1758 (06DE)	〃	102 (66)		
1759 (06DF)	〃	63 (3F)		
1760 (06E0)	〃	102 (66)		
1761 (06E1)	〃	63 (3F)		
1762 (06E2)	〃	128 (80)		
1763 (06E3)	〃	20 (14)		
1764 (06E4)	〃	80 (50)		
1765 (06E5)	〃	200 (C8)		
1766 (06E6)	〃	0 (00)		
1767 (06E7)	〃	12 (0C)		
1768 (06E8)	〃	102 (66)		
1769 (06E9)	〃	63 (3F)		
1770 (06EA)	〃	137 (89)		
1771 (06EB)	〃	53 (35)		
1772 (06EC)	〃	6 (06)		
1773 (06ED)	〃	53 (35)		
1774 (06EE)	〃	137 (89)		
1775 (06EF)	〃	54 (36)		



INSPECTION STANDARD AND TOOLS

- [1] Inspection standard R 1 ~ R 5
[2] Tools T 1
-
-

CONDITION FOR INSPECTION

Normal temperature : Temperature $20 \pm 5^{\circ}\text{C}$ Humidity $65 \pm 20\%$

Power source : 5.5 V 5 A or more at 0.4 Ω load

Light source : 2,856° K

K coefficient : 1.16

1.INSPECTION STANDARD

1. The EV value in the description is the EV value of ISO100.
2. The symbol of EV conversion for errors is as follows. “+” is used for overexposure and “-” underexposure .
3. Cel 1 - cell 10 for metering are cells for 10-divided SPD as shown below.

On the finder.

Cell 1 : Center doughnut / Cell 2 : Left upper / Cell 3 : Right upper / Cell 4 : Left lower
 Cell 5 : Right lower / Cell 6 : Spot-center / Cell 7 : Spot-left / Cell 8 : Spot-right
 Cell 9 : Spot- upper / Cell 1 0 : Spot-lower

4. Cel 1 - cell 5 for metering are cells for 5-divided TTL SPD for TTL as shown below.

On the finder.

Cell 1 : Center / Cell 2 : Left upper / Cell 3 : Right upper / Cell 4 : Left lower
 Cell 5 : Right lower

Evaluation items	Standard	Remarks
Main mirror 4 5° position	Up and down Within 4 5 ' Left and right Within 2 5 ' Distortion Within 8 '	No gap when mirror-up J19002 · J18197 · J1803 Hexagonal key
Sub mirror 4 7.7 5° position	Up and down Within $-5 \begin{smallmatrix} +10 \\ -25 \end{smallmatrix}$ ' Distortion Within 8 '	J19002 · J18268-1 Hexagonal key
Lens release pin	Protrusion height $1.4 \begin{smallmatrix} +0.05 \\ -0.2 \end{smallmatrix}$ mm	
Lens contact	Contact width 1.5 ± 0.1 mm or more	
Aperture lever	Depth from bayonet surface 5.3mm~6.7mm 3.4 height (when using a tool) 3.4 ± 0.1 mm Horizontal position $18.7 \begin{smallmatrix} +0.35 \\ -0.30 \end{smallmatrix}$ mm	J18004
AF coupling MB F	Protrusion height 1.7 ± 0.2 mm Standard 46.67 ± 0.03 mm Parallel Within 0.03 mm Clearance between outside rail and inner rail 0.23 ± 0.02 mm Difference between inner rail and aperture surface 0.2 mm or more	J18001 Dial gauge
Film detection switch	Hight from guide 2 ± 0.2 mm OFF position 0.3 mm or more Whole stroke should be lower than the sprocket surface.	
Infinity	$\pm 40''$ ($\pm 60 \mu\text{m}$)	J18010

Evaluation items	Standard		Remarks
Contacts of the rear cover	Hight	2.5 ± 0.15mm	
	Stroke	1.35 ^{+0.3} / _{-0.2} mm	
A F alignment	Y a w	Center	0 ± 4 mrad
		Side	0 ± 1 0 mrad
	P i t c h	Center	0 ± 5 mrad
		Side	0 ± 1 0 mrad
Focusing range	A F lighthing range Within 0 ± 8 0 ~ 1 2 0 μ m		
AF assist lamp	Turn on the AF assist lamp under EV6		
Metering	AF50/1.4D	AMP	Error of recognition (E V 0 ~ E V 2 1) Within ± 0.5 E V
		CW	Error of recognition (E V 0 ~ E V 2 1) Within ± 0.5 E V
		S P O T	Error of recognition (E V 3 ~ E V 2 1) Within ± 0.5 E V
		5 area	Within ± 0.5 E V
Error of Metering mode	From CW AF50/1.4D		
	AMP	Within ± 1 / 3 E V (E V 0 ~ E V 1 0)	
	S P O T	Within ± 1 / 3 E V (E V 3 ~ E V)	
Center weighted	Φ 1 2 mm circle	AF50/1.4D	
	7 5 % or more		
Difference by focusing screen	Stnderd from B type focusing screen E type focusing screen Within ± 1 / 3 E V		
Position of A E SPD	Stnderd from focusing screen Up and down and Left and right 0 ± 0.5 mm		
A E accuracy	Each A E mode and each Metering mode		
	1/8000~1/4000	Within ± 0.7 5 E V	(Without AMP)
	(1/4000) ~1/2000	Within ± 0.5 E V	
	(1/2000) ~	Within ± 0.4 E V	
	Tolerance	Within ± 0.3 E V	
	Difference by A E mode		Within ± 0.4 E V
	Difference by Metering mode		Within ± 0.3 E V

Evaluation items	Standard	Remarks
AE - A accuracy (CW)	EV 15 F 8 (1/500)	Within $\pm 0.5 T v$
	Tolerance	Within $0.3 T v$
	EV 12 F 5.6 (1/125)	Within $\pm 0.5 T v$
	Tolerance	Within $0.3 T v$
	EV 6 F 2.8 (1/8)	Within $\pm 0.5 T v$
	Tolerance	Within $0.3 T v$
AE - S accuracy (CW)	EV 15 1/500 (F 8)	Within $\pm 0.5 A v$
	Tolerance	Within $0.5 A v$
	EV 12 1/125 (F 5.6)	Within $\pm 0.5 A v$
	Tolerance	Within $0.5 A v$
	EV 6 1/8 (F 2.8)	Within $\pm 0.5 A v$
	Tolerance	Within $0.5 A v$
Shutter speed accuracy	1/8000~1/4000	Within $\pm 0.65 d T v$
	(1/4000) ~1/2000	Within $\pm 0.35 d T v$
	(1/2000) ~ 30秒	Within $\pm 0.2 d T v$
	1/250	Within $4.14 ms^{+0.2}_{-0.1} d T v$
	Tolerance	
	1/8000~1/5000	Within $0.45 T v$
	1/4000~1/2500	Within $0.3 T v$
1/2000~ 30秒	Within $0.2 T v$	
Curtain speed (1/8000)	Front and rear curtain (21mm)	Within $2.58 \pm 0.08ms$
Synchronization	Time lag (21mm)	$0.1 \sim 0.4 ms$
	Allowance after turning ON (21mm)	$1.1ms$ or more
Finder	Visual field rate	$96 \pm 2\%$
	Prallax	Up and down and Left and right Within $0.5 mm$
	Eye point Distance to eyepiece lens	$19 \pm 2 mm$
Consumption Standby current	Main switch OFF	$60 \mu A$ or less
	Do not push the oil of operation button	$100 \mu A$ or less
	Main switch ON	$60 \mu A$ or less
	(Power OFF)	$100 \mu A$ or less
	Main switch ON	$330 mA$ or less
	(Power ON)	EV 12 $50/1.4$
	Main switch ON	$330 mA$ or less
(Illumnater ON)	EV 12 $50/1.4$	
Resistance of hotshoe and GND	$50 m\Omega$ or less	

Evaluation items	Standard	Remarks
B C level	Primary level Standard battery pack	Lower direction : 4.2 ± 0.2 V
	Alkaline battery×4	Restoring direction : 4.7 ± 0.2 V
	MS - 1 3	Lower direction : 4.5 ± 0.2 V
	For C R 1 2 3	Restoring direction : 5.0 ± 0.2 V
	MB - 1 5	Lower direction : 5.8 ± 0.2 V
	Alkaline battery×6	Restoring direction : 6.2 ± 0.2 V
	MB - 1 5	Lower direction : 6.5 ± 0.2 V
	Ni-MN-15	Restoring direction : 7.2 ± 0.2 V
	Secondary level Standard battery pack	Lower direction : 4.1 ± 0.2 V
	Alkaline battery×4	Restoring direction : 4.5 ± 0.2 V
	MS - 1 3	Lower direction : 4.2 ± 0.2 V
	For C R 1 2 3	Restoring direction : 4.7 ± 0.2 V
	MB - 1 5	Lower direction : 5.5 ± 0.2 V
	Alkaline battery×6	Restoring direction : 6.1 ± 0.2 V
MB - 1 5	Lower direction : 6.0 ± 0.2 V	
Ni-MN-15	Restoring direction : 7.0 ± 0.2 V	
Pre-release timer time	After pre-release switch OFF	6 ± 0.5 ms
	After release	1 ± 0.5 ms
Battery life on bulb mode	Alkaline battery×4 L R 6	: 4 H or more
	Lithum×4 F R 6	: 7 H or more
	Alkaline battery×6 L R 6	: 8 H or more
	Lithum×6 F R 6	: 1 0 H or more
	Ni-MN Pack	: 4 H or more
	Lithum×2 C R 1 2 3	: 3 H or more
Image dimension 5 0 / 1.4 F 5.6	Width	$36^{+0.4}_{-0.0}$ mm
	Lenght	$24^{+0.4}_{-0.0}$ mm
	R of corners	R 0. 4 mm or less
Frame space	Winding S · C mode	2 ± 1.0 mm or less
	Winding CS mode	2 ± 1.0 mm or less

2. Tools

1. Dedicated tools

There is provided only an adjustment software as a new tool for F 100.

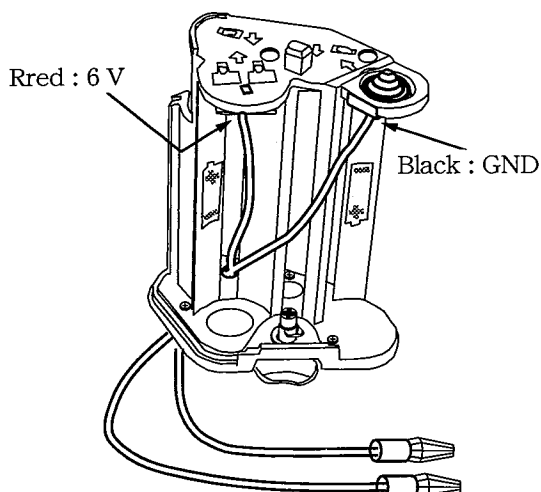
In addition, the sub mirror angle adjustment tool J18268 for F 5 can be a commonly used tool for both of F100 and F5 by remodeling "J18268" to "J18268-1" by Service Planning Sec., Imaging Products Div.

Tool No.	Name of tool	Others
J15328-1	10-pin connector communication tool	For F5
J18266	Z adjustment lens	For F5
J18268-1	Sub mirror angle adjustment tool	For F5、F100
J18197	Reflection mirror	For F90
J18273	AF chart	For F5
J18296A	Inspection and adjustment software	For NEC 5.0 inch
J18296B	Inspection and adjustment software	For NEC 3.5 inch
J18296C	Inspection and adjustment software	For IBM 5.0 inch
J18296D	Inspection and adjustment software	For IBM 3.5 inch

2. Hand-made tool

Through remodeling the battery holder, it makes possible to mechanically change the battery identification switch mode and to supply the set voltage from the stabilized power source to the camera.

- ① Remove the three screws from the bottom of battery holder and then remove the two battery contacts.
- ② While removing the bottom of battery contacts, assemble the battery holder.
- ③ Make a hole on the bottom of battery holder.



- ④ As shown in the figure, remodel the battery contact in order to attach it on to the battery holder, and then fix it on the GND of battery holder by an adhesive.
- ⑤ Prepare two lead wires and connect them as shown in the figure.

