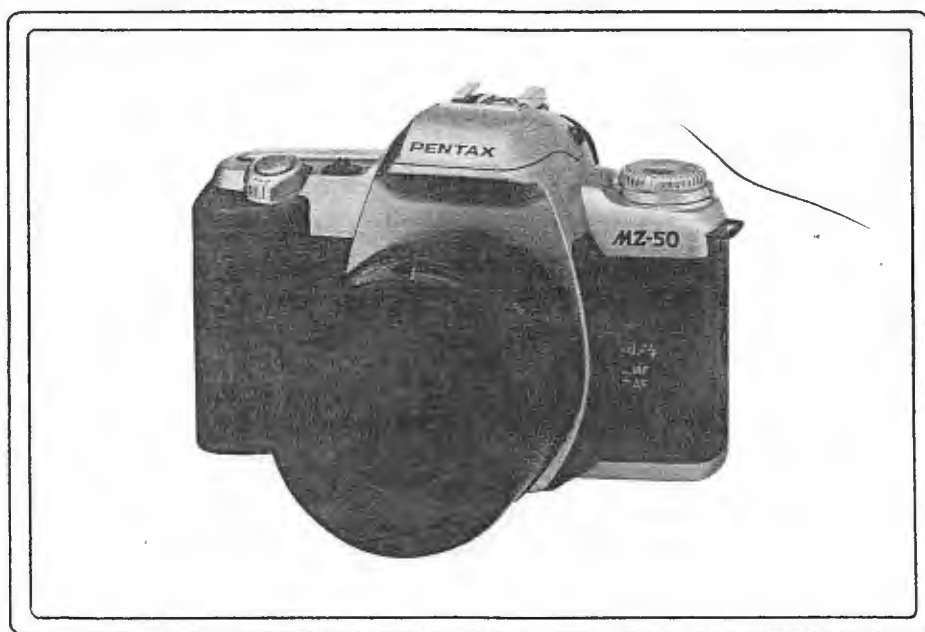


PENTAX®

Service Manual

ENGLISH

MZ-50 QUARTZ
DATE



PRODUCT No. 27330 M Z - 5 0 QUARTZ DATE

PRODUCT No. 27332 M Z - 5 0 QUARTZ DATE

PRODUCT No. 27334 Z X - 5 0

PRODUCT No. 27336 M Z - 5 0

PRODUCT No. 27338 Z X - 5 0 QUARTZ DATE

[Disassembly and assembly procedure]

Outline:

Disassembly and assembly procedures for MZ-10 are almost the same as MZ-5 (Prod. No. 27250).
The differences for service works from MZ-5 are Top cover, Front cover, Mount ring, their related parts and soldering around LCD panel.

The only exclusive service works and adjustments for MZ-10 are mentioned below.
For others, refer to the service manual for MZ-5.

1. External parts

[Disassembly procedure]

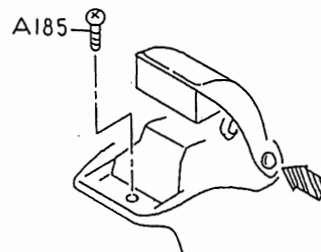
Bottom cover (A401) ... 7 screws (A181,A187 x6), 0-A402 (Battery cover assy.)

Back cover (A201)

8 retainer screws for Top cover

Set the flash pop-up condition, then remove the screw (A185).

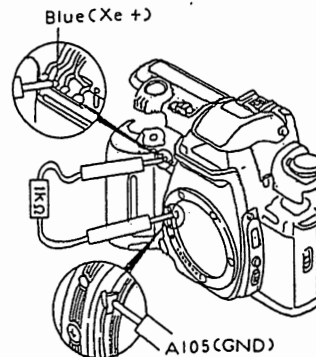
[Note of assembly] Arrange the lead wires from Q100.



Discharge of electricity of the main capacitor

Lift the top cover from the body, and then discharge electricity of the main capacitor with a 100-1 k ohm resistor.

Land of the blue wire (Xe+) on the flash P.C. board
A105 (Mount spring) ... GND



Front cover (A102)

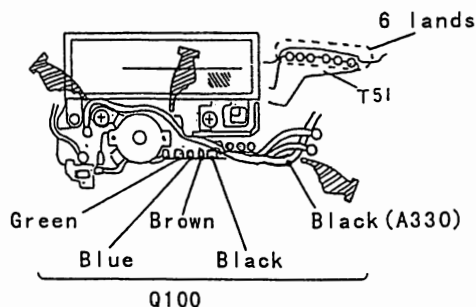
[Note of assembly] Set both the body and Focus mode switch with the AF-position.

Grip (A150)

Unsoldering from Top cover

5 lead wires, 6 lands (0-T100+T51)

[Note of assembly] Arrange the black lead wires (A330).



Top cover assy. (0-A301)

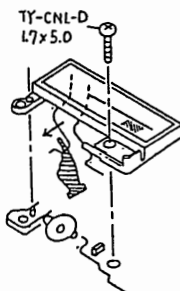
2. Main unit and soldering

【 Disassembly procedure 】

☆ Turn the panorama lever to normal frame.

Removing LCD panel

TY-CNL-D1.7X5.0

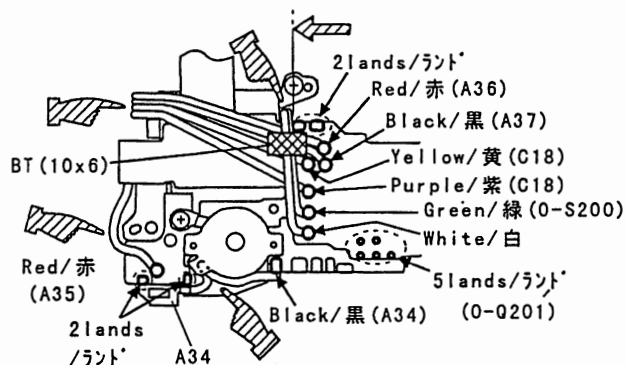


Around Release SW

8 lead wires, 9 lands

【 Note of assembly 】

Arrange the lead wires as shown in the diagram right.



Mode SW land part

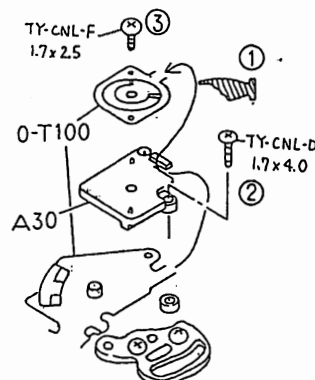
TY-CNL-F1.7x2.5

Lift up the land part.

TY-CNL-D1.7x4.0, A30 (Mode SW base plate)

【 Note of assembly 】

Install the mode SW land part in numerical order of diagram right.



Unsoldering

2 lead wires (red, black - N300)

Lands: T81, T301, T61 (Shutter block-, Mount-, Date-flexible P.C.board)

T64 (Back cover key SW P.C.board), R110 (DX contact piece assy.)

【 Note of assembly 】 After soldering, put the middle part of T81 into the body.

Battery contact piece (-)

A34

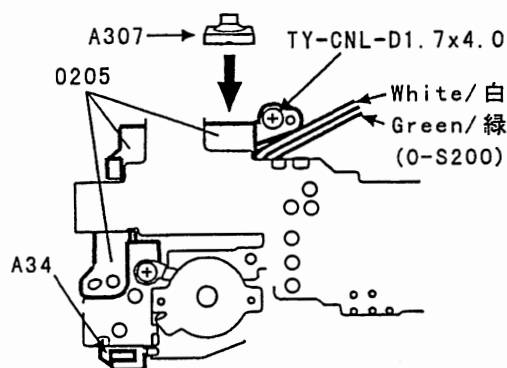
Release SW base plate (O205)

TY-CNL-D1.7X4.0, lift up O205.

Exposure compensation SW (A307)

Eyepiece frame (M301)

2 screws

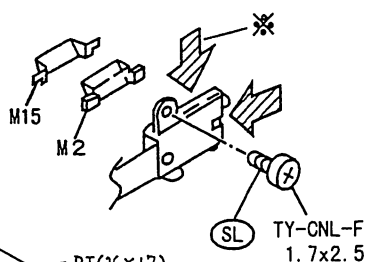


3. Main P. C. board (O-T100)

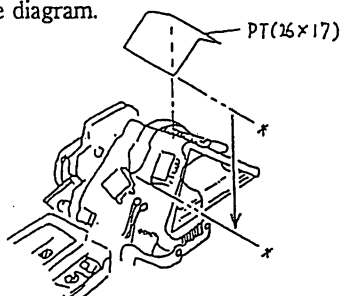
【 Note of assembly 】

1) Install the Finder LCD as shown in the diagram.

(※ : difference from MZ-5)



2) Install PT(26x17) as shown in the diagram.

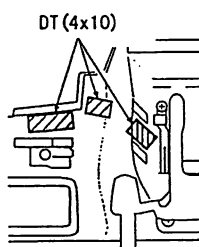
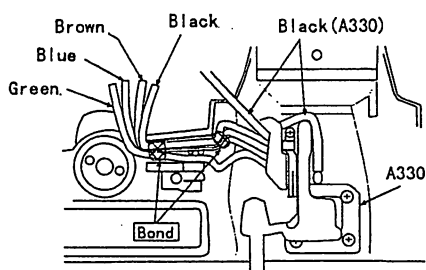


4. Top cover

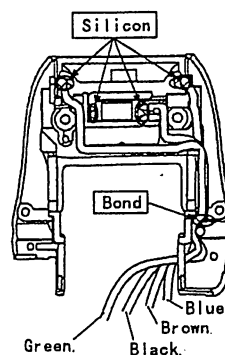
【 Note of assembly 】

Arrange the lead wires as shown in the diagram below.

■ Top cover (A301)



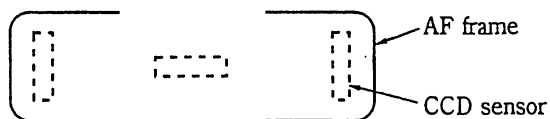
■ Flash frame (Q2)



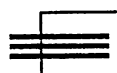
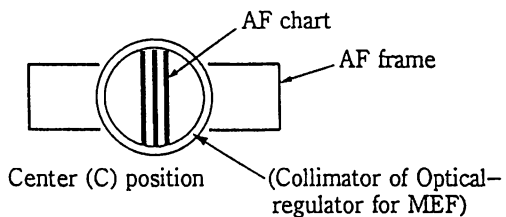
5. Adjustment and Confirmation (supplement)

5-1. Adjustment and check with computer program

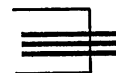
1) Positions of AF frame and CCD sensor (for reference)



2) Match both the AF frame and AF chart as shown in diagram below.



Left (L) position

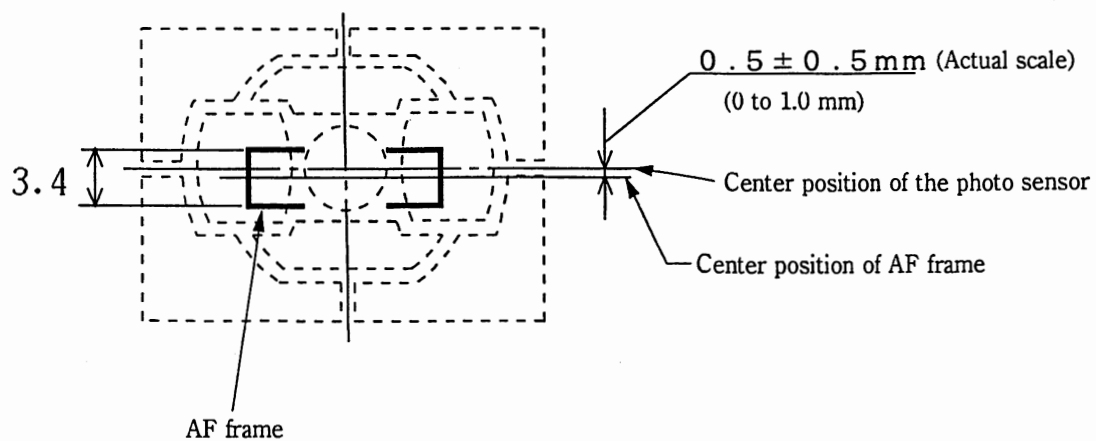


Right (R) position

5-2. Mechanical back

Standard : 4 5 . 4 6 mm +0.02, -0.035

5-3. Photo sensor position



【 Reference 】 If a lens with a large aperture (ex. FA 50mm f/1.4) is mounted, the pattern of the photo-sensor will be seen easily on the 1st mirror.

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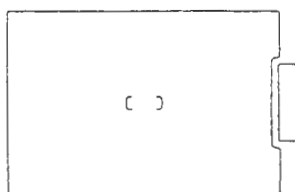
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【 SPECIFICATIONS 】

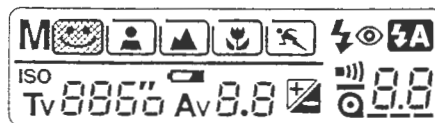
Type	TTL autofocus, auto-exposure 35mm SLR with built-in TTL auto flash (RTF)
Format	24x36mm
Usable Film	35mm perforated cartridge film. DX-coded film with ISO 25-5000; non-DX coded films with ISO 6-6400
Exposure Modes	Picture Mode (Green Operation Mode, Portrait Program Mode, Landscape Program Mode, Close-up Program mode, Action Program Mode), Aperture-Priority AE Mode, Shutter-Priority AE Mode, Metered Manual Mode, Bulb Mode, TTL Flash Mode
Shutter	Electronically controlled vertical-run focal-plane shutter, Electromagnetic release, Speed range (1) Auto 1/2000-30 sec.(stepless), (2) Manual 1/2000-30 sec. (3) Bulb, Shutter lock by setting Main switch in OFF position.
Lens Mount	Pentax K _{AF} bayonet mount (K-mount with AF coupler, lens information contacts)
Compatible Lens	Pentax K _{AF} , K _{AF} , and K _A lenses are usable. Autofocus is possible using AF Adapter with K _{AF} -mount lenses. With the K-mount lens attached, only the maximum aperture can be used.
Autofocus System	TTL phase-matching autofocus system, AF operational brightness range: EV0 to 18(at ISO 100 with f/1.4 lens). Focus lock available using shutter release button, Focus Mode: AF (predictive AF provided), Manual [MF]
Viewfinder	Pentamirror finder, Natural-Bright-Matte focusing screen, Field of view:92%, Magnification 0.77(with 50mm lens at ∞), Diopter: -1 diopter, Autofocus frame
Viewfinder Indication	Focus Information: In-focus (Green lamp [] is lit), front or back focus signals and unable-to-focus indicator (Green lamp blinks). Shutter speed indication, Aperture indication, Flash ready indication [] is lit, Bar graph(exposure compensation).Over or Under exposure indication in Metered Manual Mode, [] exposure compensation indication,
External LCD panel Indication	[M] = Metered Manual Mode, [] = Green Operation Mode, [] = Portrait Program Mode, [] = Landscape Program Mode, [] = Close-up Program Mode, [] = Action Program Mode, Shutter speed indication, Aperture indication, [] = Built-in flash ready indication, [] = blinking slowly flash recommended warning, [] = blinks rapidly inappropriate lens warning, [] = Red-eye reduction flash mode, [] = Automatic flash function, ISO indication, [] = Film status information, [] = Battery exhaustion warning, Exposure counter, [] = PCV signal indication, [] = Exposure compensation, Exposure compensation value
Self-timer	Electronically-controlled type with delay time of 12 sec. Start by depressing of shutter release button, Operation confirmation : By PCV beep tone. Cancelable after operation
Mirror	Instant-return mirror with AF secondary mirror
Film Loading	Film advances automatically to 1st frame after back cover is closed, Film information window is provided
Film Wind & Rewind	Auto wind/rewind by built-in motor, Consecutive or Single advance mode, Approx.2 frames/sec.(consecutive mode). Auto rewinding starts at end of roll, Film rewind/completion of rewinding is displayed on the LCD panel, Mid-roll rewind button will rewind film in mid-roll
Exposure Meter	TTL multi(2)-segment metering, Metering range from EV1 to EV17.5 at ISO100 with 50mm f/1.4 lens
Exposure Compensation	± 3EV in 0.5EV step increments
Flash	Series-control, Retractable TTL Auto Flash (RTF), Guide number:11 (ISO100/m), Illumination angle covers 28mm lens angle of view, Flash-sync-speed in the range from 1/100 sec. to a slower speed, Day-light-sync flash, Slow-speed-sync flash, Contrast-control-sync flash (ISO range = 25 - 400), Automatic flash function, Red-eye reduction flash function
Flash sync	Hot shoe with X-contact with couples with Pentax dedicated auto flashes, ISO range = 25-800
Power Source	Two 3V lithium batteries (CR2 or equivalent)
Battery Exhaustion Warning	Battery exhaustion symbol [] is lit (blinking when the shutter is locked; no indication on the right-hand edge of the viewfinder.)
Dimension and Weight	135.0mm(W)x90.5mm(H)x62.5mm(D) (5.3"x3.6"x2.5") 345g(12.2 oz) body only without batteries
Date model	Crystal quartz controlled LCD with digital clock, auto calendar up to 2019. 7 segment, 6-digit LCD display
Power source	3V lithium battery (CR2025 or equivalent)
Number of prints	Approx. 5000
Dimension and Weight	135.00mm (W) x 90.5mm (H) x 62.5mm (D) (5.3" x 3.6" x 2.5") 360g (12.6oz) body only without batteries
Supplied Accessories	Hot Shoe Cover F ₆ , Release Socket Cap F, Camera Strap F ₆ , Eye Cup F ₆ , Finder Cap

【 LCD AND FINDER INDICATIONS 】

■ Finder indications



■ LCD panel indications



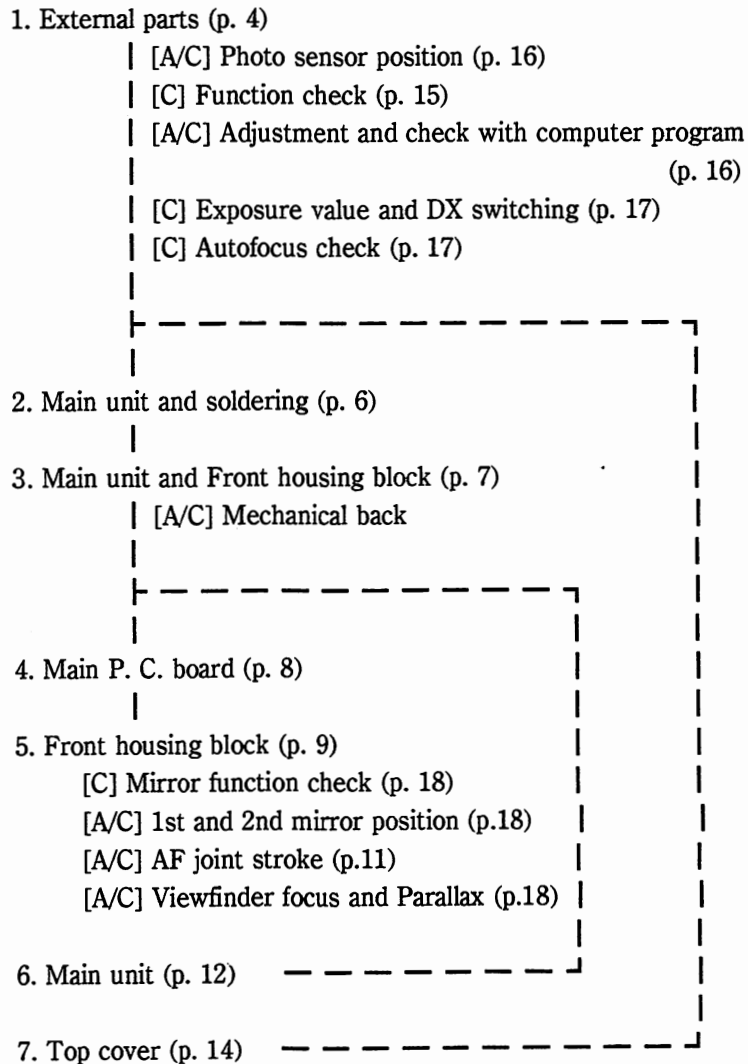
【 OUTLINE OF DISASSEMBLY AND ASSEMBLY 】

Outline:

Disassembly and assembly procedures for MZ-50 are almost the same as MZ-10 (Prod. No. 27260). And AF adjustment with the computer program is the same manner as Z-70P (Prod. No. 27230). Follow the procedures of disassembly and assembly concerning the notice in the section described. When 【 Adj/Confirmation 】 or 【 Confirmation 】 with "page ..." is presented in the procedure of assembly, refer to the subsection of "Adjustment and Confirmation" (page 15 to 18).

Disassembly and assembly outline chart is as follows:

(Symbols ... [A/C]: Adjustment and confirmation, [C]: Confirmation)



【 DISASSEMBLY AND ASSEMBLY PROCEDURE 】

1. EXTERNAL PARTS

【 Note 】 Use an anti-static working mat and the wrist strap.

Remove Hot shoe cover Fc, Eye cap FH and Release socket cap F.

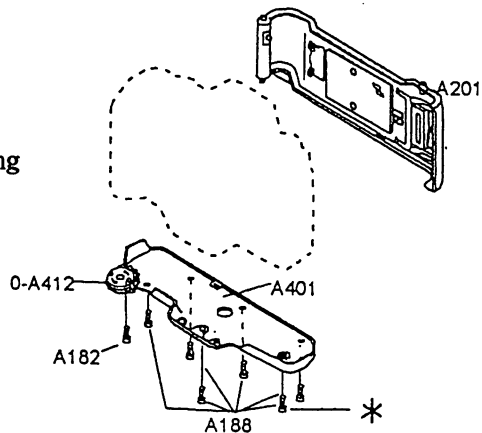
【 Disassembly procedure 】

1) Bottom cover (A401)

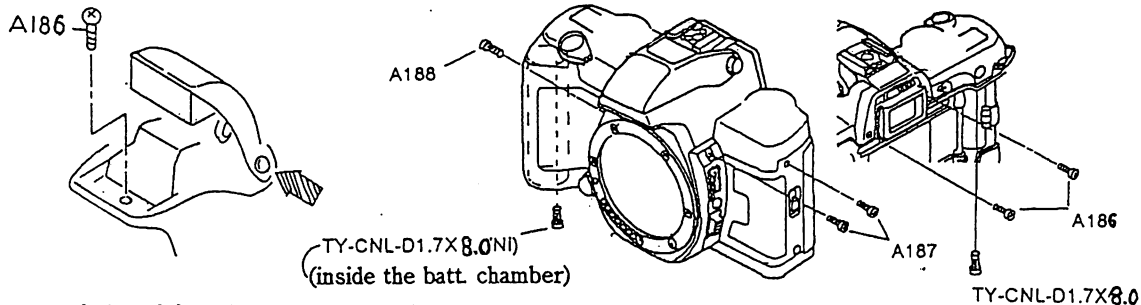
Open the Battery cover.

【 Note 】 If this screw (*) is black , refer to "Concerning MZ-50 Japan model (Prod. No.27332)" on page 19.

2) Back cover (A201)



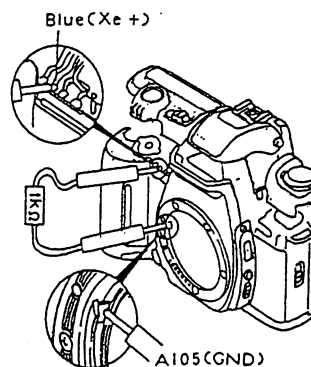
3) 8 retainer screws for Top cover



4) Discharge of electricity of the main capacitor

Lift the top cover from the body, and then discharge electricity of the main capacitor with a 100-1 k ohm resistor.

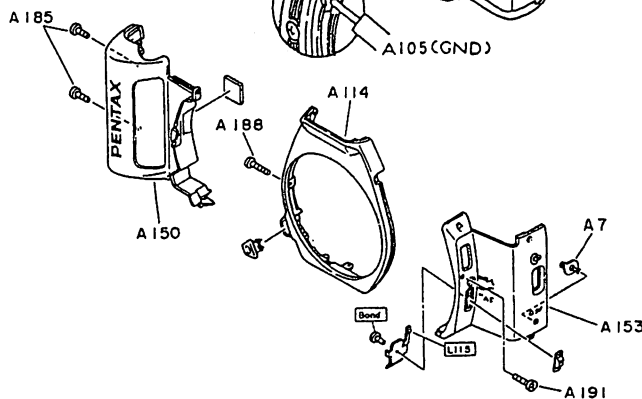
Land of the blue wire (Xe+) on the flash P.C. board
A105 (Mount spring) ... GND



5) Front covering, left (A153) ... A191 (...screw)

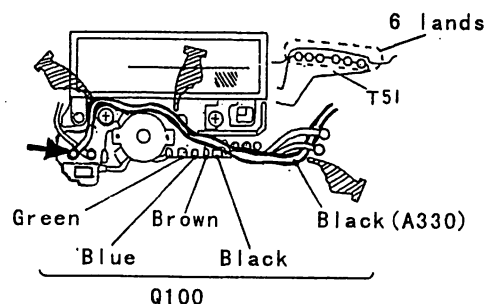
6) Front cover (A114) ... A188

7) Grip (A150) ... A185 x2



8) Unsoldering 5 lead wires and 6 lands from Top cover

9) Top cover assy. (0- A301)

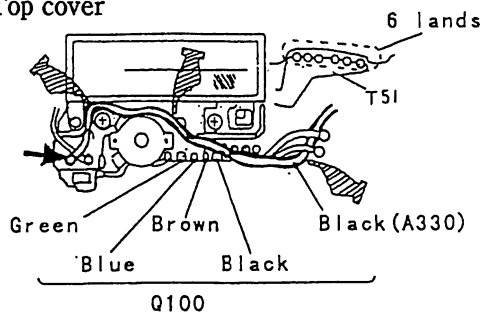


【 Assembly procedure 】

1) 【 Adj/Confirmation 】 Photo sensor position (p. 16)

2) Soldering 5 lead wires and 6 lands from Top cover

Arrange the black lead wire (A330).



2) Grip (A150)

A185 (size: 1.7x3.5) x2

【 Note 】 A35 (Batt. contact piece) and A36 (Batt. cover SW...) should not project over the battery chamber as shown in the diagram right.

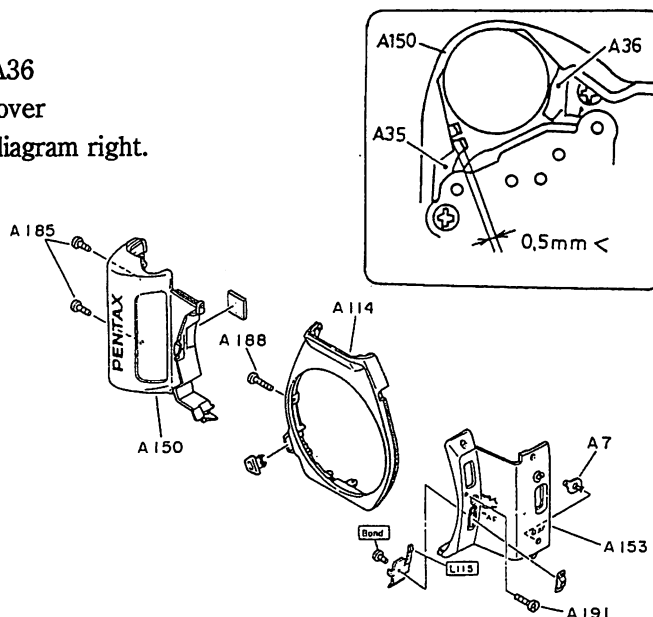
3) Front cover (A114)

A188 (size: 1.7x5.0)

4) Front covering, left (A153)

Set both the body and Focus mode switch with the AF- position.

A191 (size: 1.7x7.0), A7 (Rewind SW)

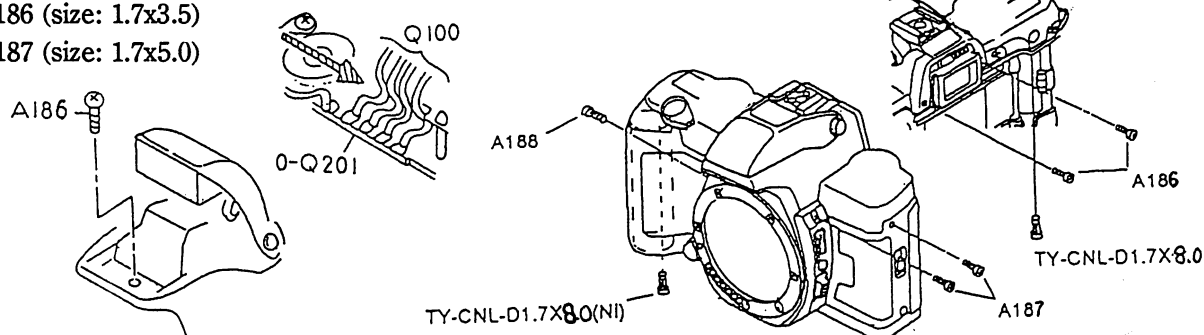


5) Top cover assy. (0-A301)

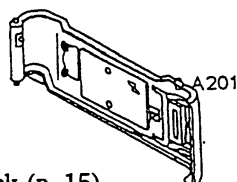
Arrange the 4 lead wires (Q100) from Top cover.

A186 (size: 1.7x3.5)

A187 (size: 1.7x5.0)



6) Back cover (A201)



7) 【 Confirmation 】 Function check (p. 15)

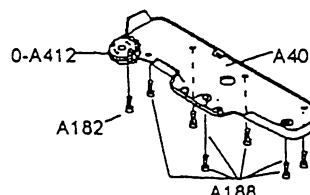
8) 【 Adj/Confirmation 】 Adjustment and check with the computer program (p. 16)

9) Bottom cover (A401), Battery cover (0-A412)

A182 (size: CNL-D1.7x3.0)

10) 【 Confirmation 】 Exposure value and DX switching (p. 17)

11) 【 Confirmation 】 Autofocus check (p. 17)



2. MAIN UNIT AND SOLDERING

Refer to the diagrams below.

【 Disassembly procedure 】

- 1) Removing LCD panel ... Fig. ①
- 2) Unsoldering on Main P. C. board
 - 1) Around Release SW ... Fig. ②
 - 2) 4 lands (T81) ... Fig. ③
 - 3) 2 lead wires (T71-N300) ... Fig. ④
 - 4) DX contact part (24 lands) ... Fig. ⑤
- 3) Mode SW base plate (A30) ... Fig. ⑥
- 4) Battery contact piece (A34), A33 x2 ... Fig. ⑦
- 5) Release SW base plate (O205) ... Fig. ⑧

Remove TY-CNL-D1.7x4.0, lift up O205.

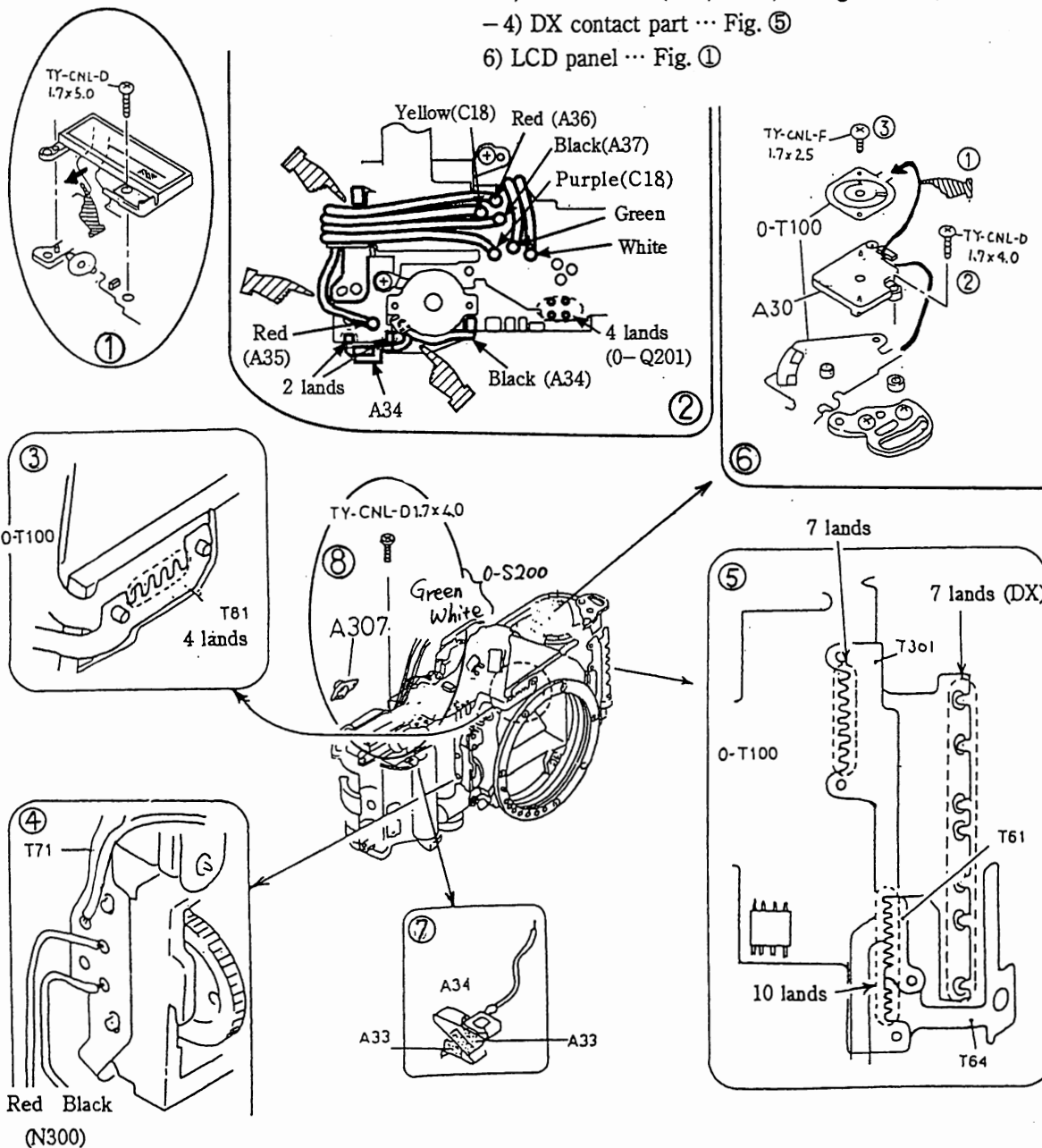
Exposure compensation SW (A307)

- 6) Eyepiece frame (M301) ... 2 screws

【 Assembly procedure 】

- 1) Eyepiece frame (M301) ... TY-CNM1.7x4.5 x2
- 2) Release SW base plate (O205) ... Fig. ⑧
 - 1) Arrange 2 lead wires (White, Green).
 - 2) Exposure compensation SW (A307)
 - 3) TY-CNL-D1.7x4.0
- 3) Battery contact piece (A34), A33 x2 ... Fig. ⑦
- 4) Mode SW base plate (A30) ... Fig. ⑥

Install the mode SW land part in numerical order of the diagram.
- 5) Soldering on Main P. C. board
 - 1) Around Release SW ... Fig. ②
 - 2) 4 lands (T81) ... Fig. ③
 - 3) 2 lead wires (T71, N300) ... Fig. ④
 - 4) DX contact part ... Fig. ⑤
- 6) LCD panel ... Fig. ①



3. MAIN UNIT AND FRONT HOUSING BLOCK

【 Disassembly procedure 】

- 1) Peel off PT(7x15) on the bottom.
(PT: polyester tape)
- 2) Remove 6 screws.
A162 (Reinforced plate)
- 3) Remove the Front housing block the main unit with
paying attention of the flexible boards.

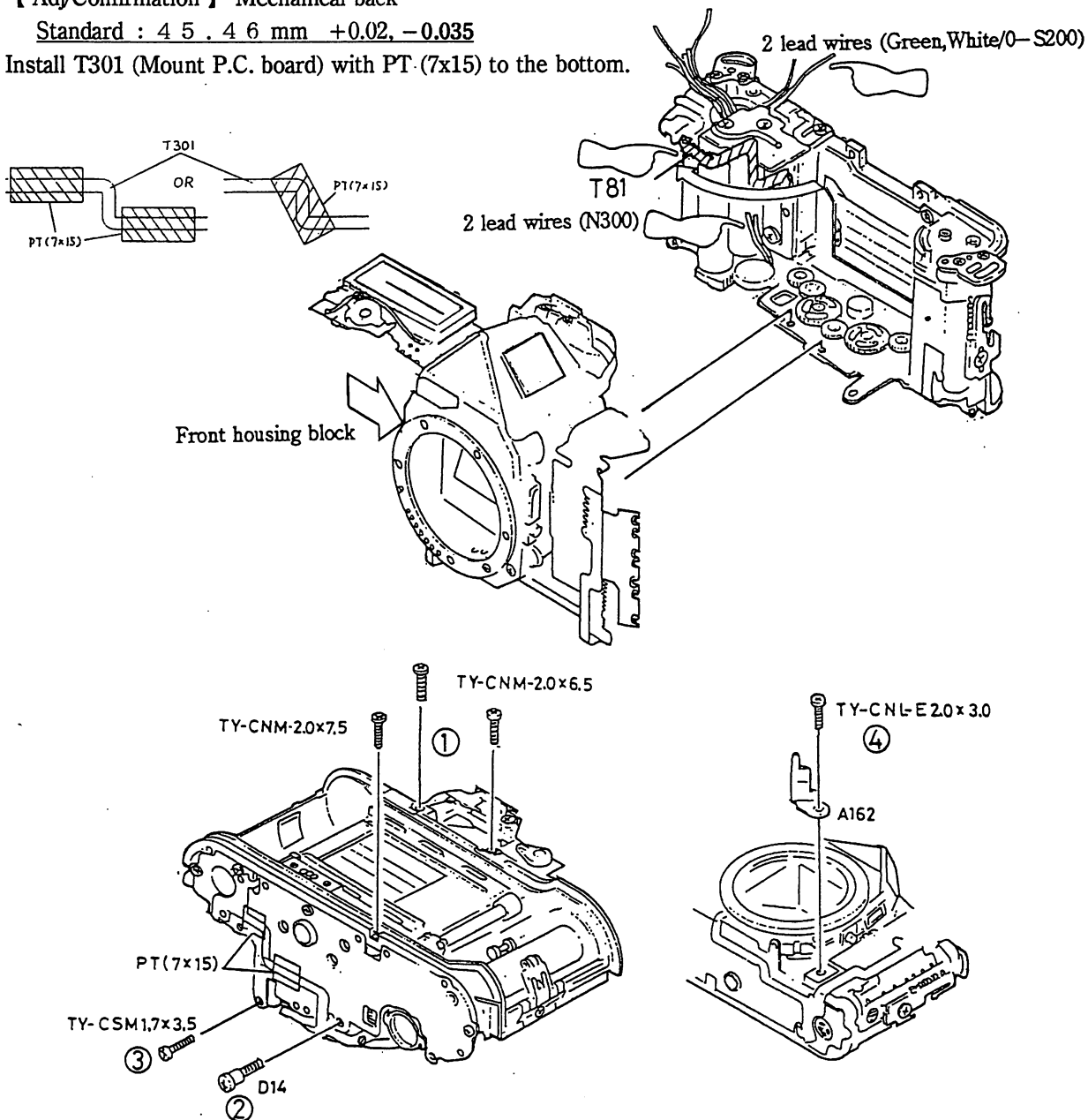
【 Assembly procedure 】

- 1) Set both the Shutter block and Front housing block at
the charge condition.
- 2) Arrange the lead wires and T81 as shown in the diagram below.
- 3) Set the Front housing block to the body.
- 4) Pushing the Front housing block toward the back cover key, tighten 6 screws
in numerical order (① , ② , ③ , ④) as shown in the diagrams below.

5) 【 Adj/Confirmation 】 Mechanical back

Standard : 4 5 . 4 6 mm +0.02, -0.035

- 6) Install T301 (Mount P.C. board) with PT (7x15) to the bottom.



4. MAIN P. C. BOARD (0-T100)

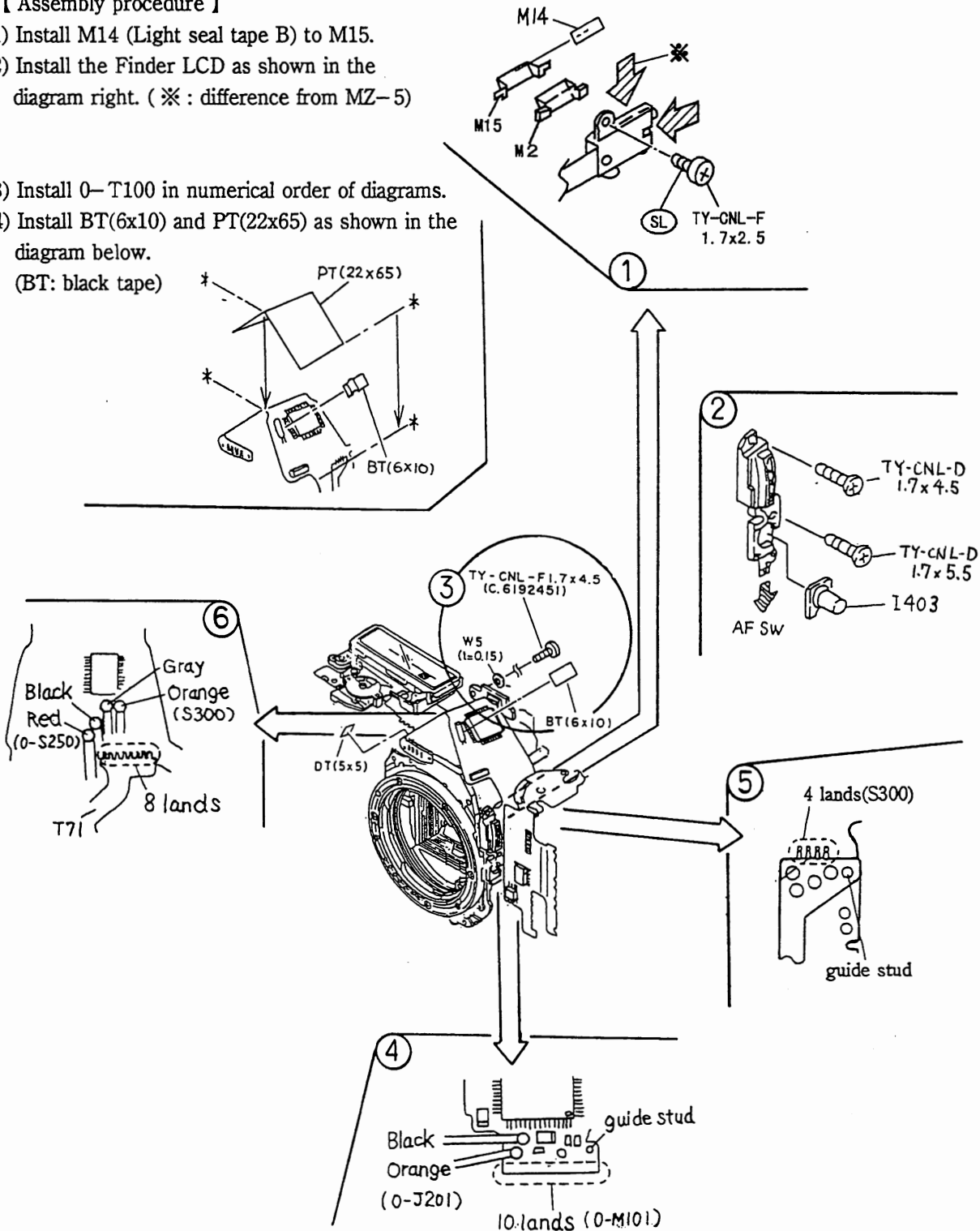
【 Disassembly procedure 】

- 1) Peel off PT(22x65).
- 2) Unsolder lead wires and lands as shown in the diagrams (④ , ⑤ , ⑥) below.
- 3) Photo sensor part ... fig. ③
- 4) Release socket part ... fig. ②
- 5) Finder LCD part ... fig. ①

【 Assembly procedure 】

- 1) Install M14 (Light seal tape B) to M15.
- 2) Install the Finder LCD as shown in the diagram right. (※ : difference from MZ-5)
- 3) Install 0-T100 in numerical order of diagrams.
- 4) Install BT(6x10) and PT(22x65) as shown in the diagram below.

(BT: black tape)



5. FRONT HOUSING BLOCK

【 Disassembly procedure 】

- 1) L2 (Fresnel lens), M22, M21, M4
- 2) Peel off M11 (Dust prevention seal). M9 ... 2 screws
- 3) 0-L101 (Penta mirror assy.)
Remove silicone by using a cutter.
- 4) 0-M101 (AF module)
First remove the flexible board from two positioning studs.
- 5) S300 (AF motor block) ... 2 screws
- 6) 0-J201 (TTL flash photo sensor assy.) ... 1 screw
- 7) G100 (Diaphragm control block) ... 4 screws
Unsolder the black lead wire on the land.
- 8) M41 (Finder mask) ... 1 screw
- 9) 0-B52 (Mirror seat assy.)
- 10) A104 (Mount ring)
- 11) Front housing assy. and related parts

【 Assembly procedure 】

5-1. Front housing assy. and related parts

- 1) B65 (Mirror shock absorber)
- 2) M5, M7 (Condenser lens)
- 3) 0-I331 (Focus mode SW assy.) ... 2 screws
- 4) 0-A121 (Joint lever assy.),
W11 (0.03 /adj.), A123 (...lever retainer screw)
- 5) 0-A128 ... apply G126, TY-CNL-F1.7x3.0

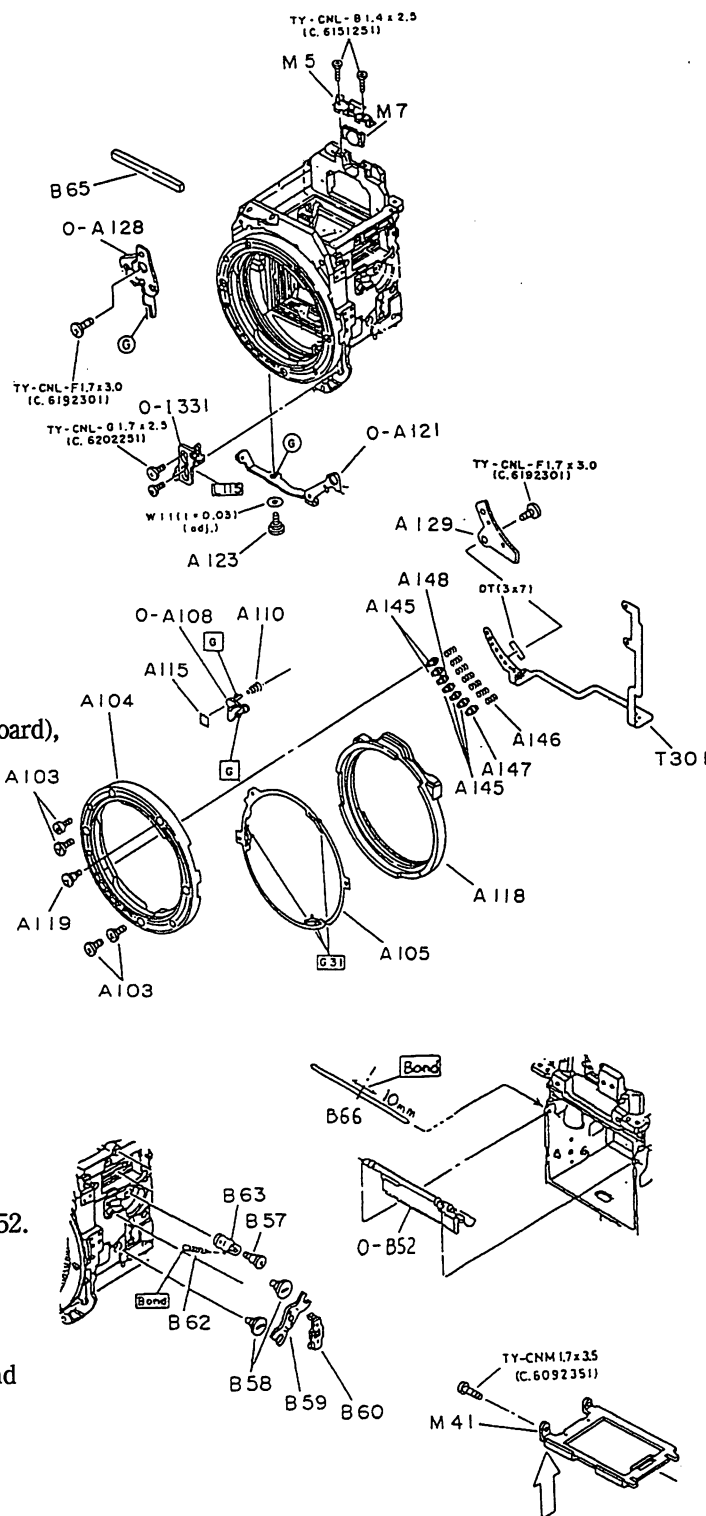
5-2. A104 (Mount ring)

- 1) Install Connector pins and springs into A104.
(A145 x5, A147, A148, A146 x7)
- 2) A129-T301 (Connector pin plate, Mount P.C.board),
TY-CNL-F1.7x3.0
- 3) A118 (Light seal ring)
- 4) A105 (Mount spring) ... apply G31
- 5) A110 (...guide plate spring),
0-A108 (...guide plate assy.) ... apply G134
- 6) A104, A119 (...retainer screw B), A103 x4

5-3. 0-B52 (Mirror seat assy.)

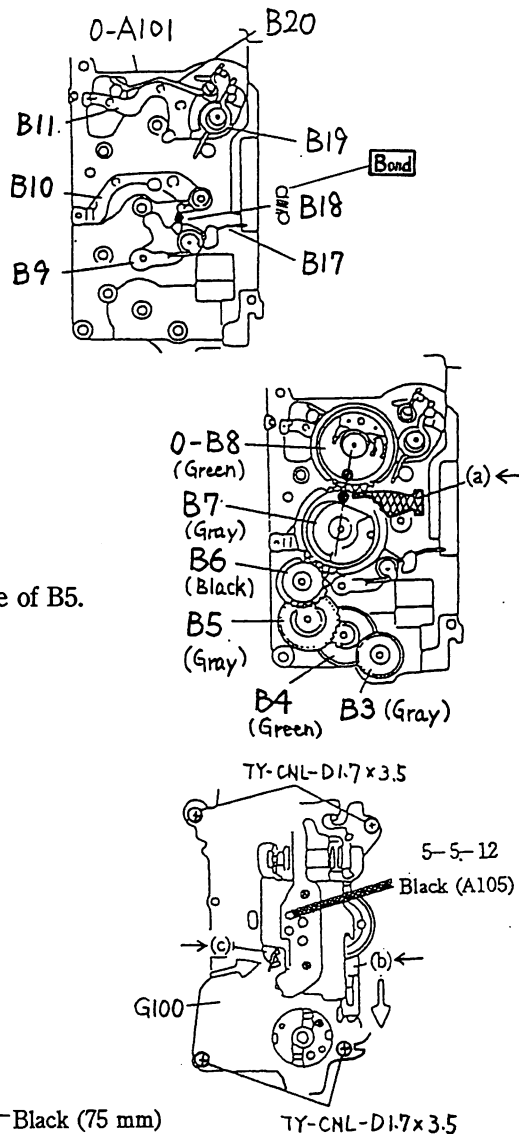
- 1) Install the 2nd mirror shaft of 0-B52 first,
and then install 0-B52.
- 2) Install B66 in to the housing and 0-B52 with
equalizing both sides of B66.
- 3) Apply a bond at the middle of B66 to fix 0-B52.
- 4) B58 x2 (Mirror seat receptacle)
- 5) B59 (...retainer plate), B60 (Plate retainer)
- 6) B63, B57 (...actuating lever, ...lever shaft)
- 7) B62 (2nd mirror actuating spring), apply a bond
as shown in the diagram right.

- 5-4. Install M41 (Finder mask) as
shown in the diagram right.

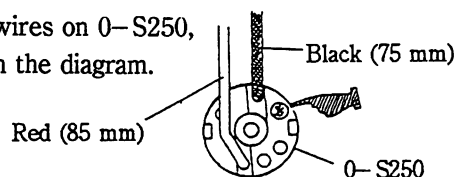


5-5. G100 (Diaphragm control block)

- 1) Apply G126 to 9 shafts of the housing.
- 2) Hold the shaft part of mirror seat assy. between B11 (Mirror drive lever) and B20 (...restitution spring).
- 3) B19 (Mirror drive spring)
B10 (Shutter charge lever),
B9, B17 (Diaphragm set lever, ...lever spring),
B18 (Lever restitution spring) ... apply a bond
- 4) Moving B9 (...set lever) down, install B7 (Shutter charge cam).
- 5) Aligning both positioning holes with B7 and
0-B8 (... drive cam assy.), install 0-B8. ... (a)
- 6) B4, B3 (...reduction gear B, A)
- 7) B5 (...reduction gear C) ... apply L115 to the whole of B5.
- 8) B6 (Mirror idle gear)
- 9) Clean the contact lands of T71 using
with a contact cleaner.
- 10) Pushing down the sliding plate (b),
push in latch lever (c) to hold the sliding plate.
- 11) G100 · 0-S250 (Mirror motor assy.), 4 screws
- 12) Solder 1 black lead wire (A105-T71).



- 13) When installing 2 lead wires on 0-S250,
solder them as shown in the diagram.

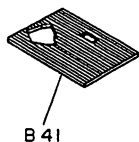


5-6. 【 Confirmation 】 Mirror function check (p. 18)

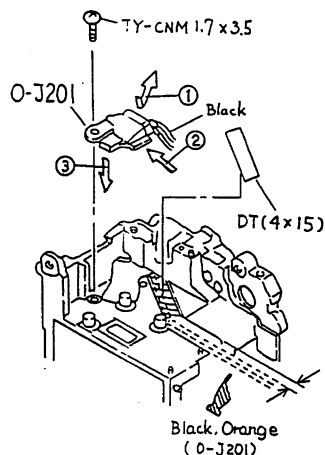
5-7. 【 Adj/Confirmation 】 1st and 2nd mirror position (p. 18)

5-8. 0-J201 (TTL flash photo sensor assy.)

- 1) Install 0-J201 in numerical order as shown in the diagram.
- 2) Install B41 (Light seal plate, bottom).

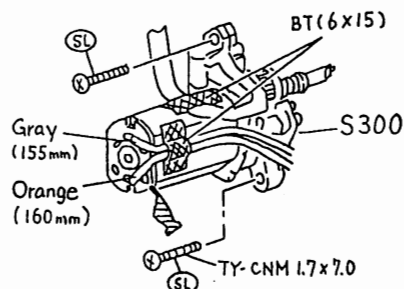


- 3) Arrange 2 lead wires (Black, Orange) with
DT(4x15) as shown in the diagram right.



5-9. S300 (AF motor block)

- 1) Arrange the lead wires and the flexible board as shown in the diagram right.
- 2) S300, 2 screws ... apply the screw-lock agent
- 3) Arrange the lead wires with a double-stick tape on the housing bottom.



3) 【Adj/Confirmation】 AF joint stroke

【Required equipment】 Vernier calipers

- 1) Set the focus mode switch to "AF".
- 2) 【Confirmation】 When the mount lock button is not pressed, the AF coupler of AF motor (S300) should project from the mount surface by 1.2 mm or more.
- 3) 【Confirmation】 When the mount lock button is pressed and released the mount lock pin comes to mount surface, the AF coupler should not project out of mount surface.

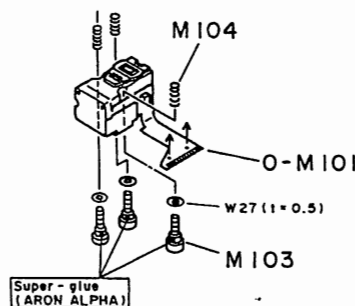
【Adjustment】 Turn an eccentric screw on 0-A121 (Joint lever assy.), and apply the screw-lock agent to the screw after adjusting.

- 4) 【Confirmation】 When the mount lock button is pressed and released, the Joint lever (0-A121) should be moved smoothly.

5-10. 0-M101 (AF module)

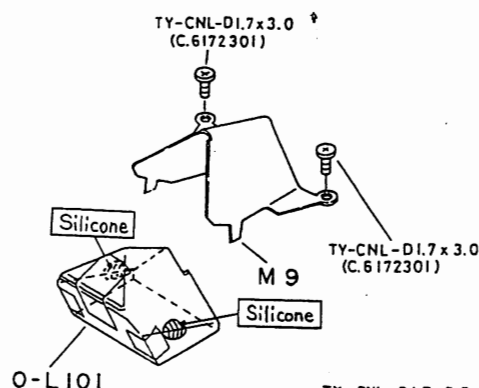
【Required equipment】 Hexagonal driver 1.5 mm

- 1) Arranging the flexible board of 0-M101, install 0-M101.
- 2) M104 x3 (Spring ...), W27 (t=0.5) x3
- 3) M103 x3 (Adjusting screw)
- 4) 【Adjustment】 AF module temporary position
Screw in each M103 until it stops, then screw back 1.5 turns.
* Apply super-glue to between the head of M103 and W65 after adjusting the position by using a computer.



5-11. L2, 0-L101 (Fresnel lens, Penta mirror assy.)

- 1) Install 0-L101 correctly.
- 2) Apply silicone to the place as shown in the diagram right, and leave them until they become hard.
- 3) M9 (Penta mirror cover) ... 2 screws



- 4) Install M21 (...retainer plate holder) as shown in the diagram.
- 5) Hook M4 (Fresnel lens retainer plate) into M21, and then put L2 on M4.

6) M22-00A - H (Focus adjusting washer)

- 7) Install M4 to the Front housing.

8) 【Adj/Confirmation】 Viewfinder focus and Parallax

【Required equipment】 Collimator, Focus master lens

- 1) Install the eyepiece (L4-M301) temporarily.
- 2) 【Adjustment】 Adjust viewfinder focus by replacing Focus adjusting washer (M22-00A to ...-00H).
Standard: 0 ± 0.07 mm

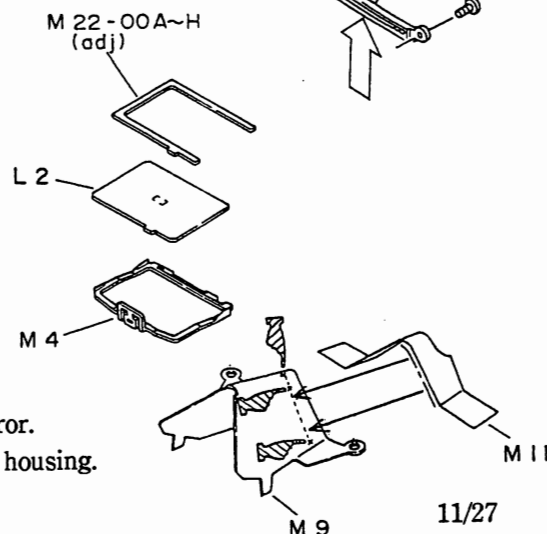
-3) 【Confirmation】 Parallax

Standard: Right/Left 1° or less

Top/Bottom $1^\circ 50'$ or less

- 9) No dust, fluff, etc. are found on Fresnel lens and Penta mirror.

- 10) Install M11(Dust prevention seal) on to M9 and the Front housing.



6. MAIN UNIT

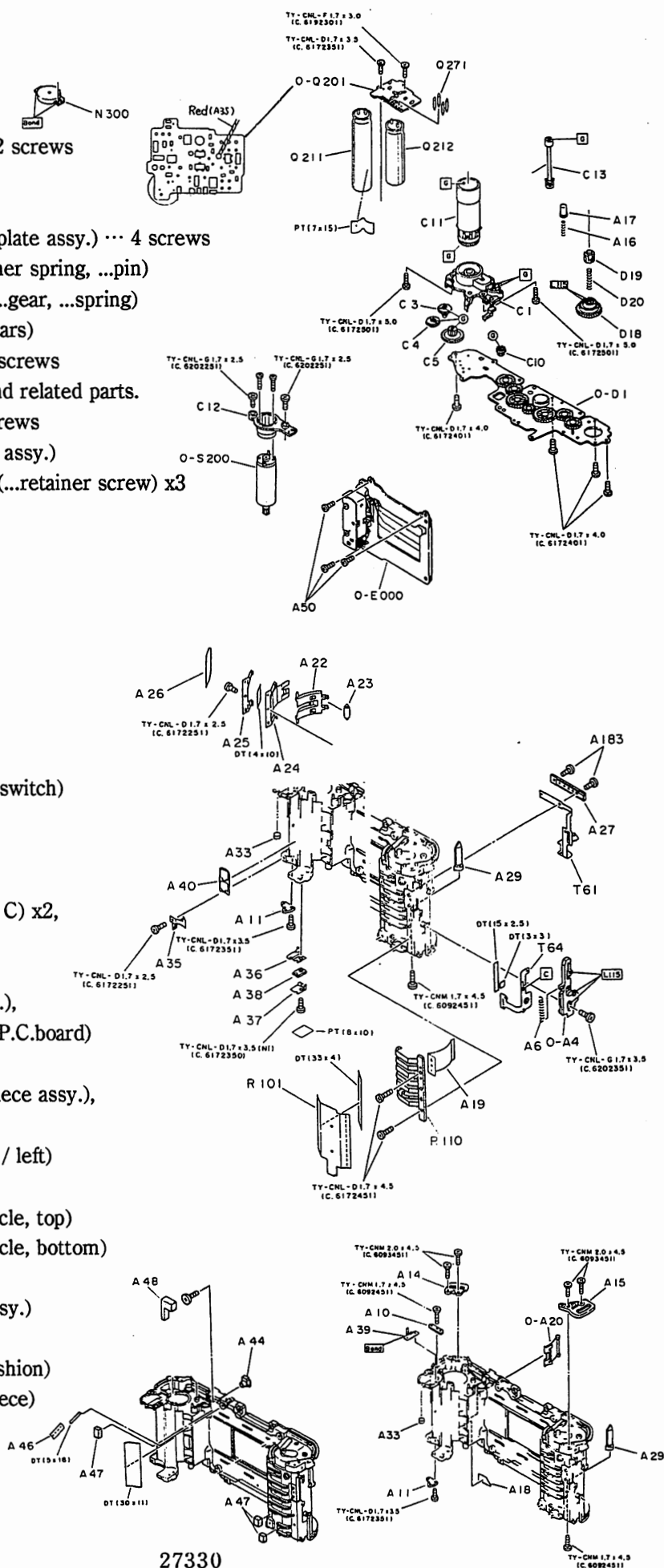
【 Disassembly procedure 】

- 1) N300 (Piezo-electric buzzer)
- 2) 0-Q201 (Flash P.C.board) ... 2 screws
Unsolder the red lead wire.
- 3) 0-D1 (Rewind bottom mech. plate assy.) ... 4 screws
A16, A17 (Film cartridge retainer spring, ...pin)
D19, D18, D20 (Rewind fork, ...gear, ...spring)
C3, C4, C5, C10 (Reduction gears)
- 4) C1 (Bottom mech. plate) ... 2 screws
C11 (Spool), C13 (Sprocket) and related parts.
- 5) C12 (Top mech. plate) ... 2 screws
0-S200 (Film transport motor assy.)
- 6) 0-E000 (Shutter block), A50 (...retainer screw) x3

7) Other parts

- 1) Film guide
TY-CNL-D1.7x2.5,
A25 (...guide retainer),
A26 (Light seal), DT(4x10),
A24, A22 (Film guide), A23
- 2) Battery cover SW
PT(8x10), 1 screw,
A37, A38, A36 (Battery cover switch)
- 3) Battery contact piece +
A40 (Battery positioning seal)
TY-CNL-D1.7x2.5, A35
- 4) A183 (Cover retainer screw C) x2,
A27 (Data contact cover),
T61 (Data flexible P.C.board)
- 5) 0-A4 (Back cover key assy.),
A6 (...spring), T64 (...key SW P.C.board)
- 6) R101 (DX contact cover),
2 screws, R110 (DX contact piece assy.),
A19 (Film cartridge spring)
- 7) A14, A15 (Strap hook, right / left)

- A10 (Back cover shaft receptacle, top)
A11 (Back cover shaft receptacle, bottom)
A18 (Film position marker)
0-A20 (Film retainer plate assy.)
A29 (Film cartridge guide)
A33 (Battery contact piece cushion)
A39 (Battery select contact piece)
A44 (Cover piece)
A46 (Shutter light seal)
A47 (Light seal) x3
A48 (Light seal B)



【 Assembly procedure 】

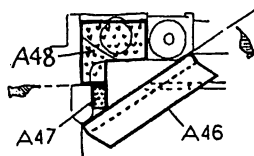
6-1. Other parts

Assemble other parts accordingly in the reverse procedure of disassembly with the following note.

【 Note of assembly 】

a) Light seal:

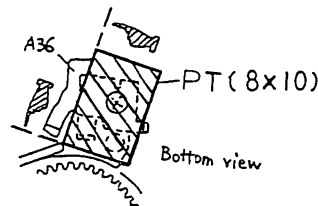
Install A46, A47 and A48 as shown in the diagram right.



b) Batt. cover SW:

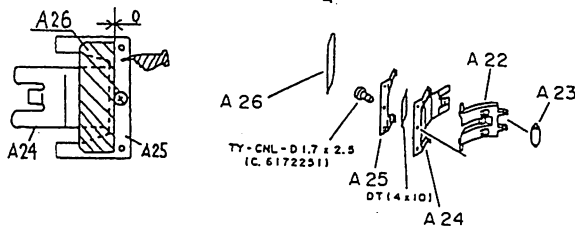
Make sure that A36 and A37 should be contacted completely.

Position PT(8x10) as shown in the diagram right.



c) Film guide:

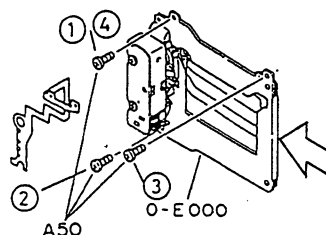
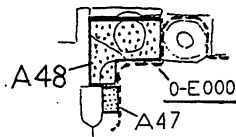
Install A26 on the Film guide as shown in the diagram.



6-2. 0-E000 (Shutter block)

1) Set 0-E000 to the side of A47 and A48 (Light seal).

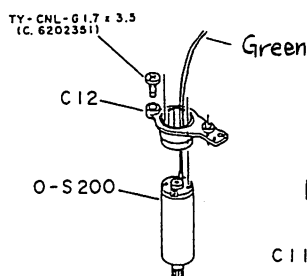
2) Pushing 0-E000 toward a grip side, screw A50 (①) temporarily, and then screw completely ②, ③ and ④ in order.



6-3. 0-S200 (Film transport motor assy.)

1) Green lead wire (FM+) of 0-S200 should be located at A14 (Strap hook, right) side.

2) C12 (Top mech. plate), 2 screws



6-4. C1 (Bottom mech. plate)

1) C11 (Spool), C13 (Sprocket) ... apply G134

2) Clean switch contact lands on C18.

3) Make sure that the height of the contact brush of 0-C16 (...switch gear assy.) should be as shown in the diagram.

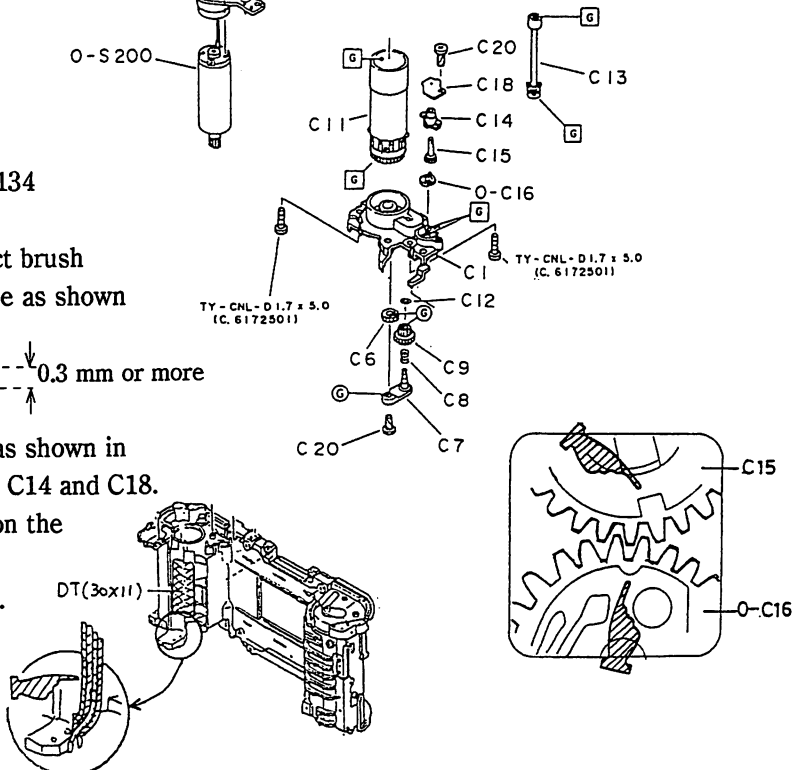


4) Align C15 (Sprocket gear) and 0-C16 as shown in the diagram right, and install them with C14 and C18.

【 Note 】 No dust, fluff, etc. are found on the switch gear and the lands.

5) Install C1 and related parts to the body.

6) Arrange 6 lead wires with DT(30x11).



6-5. 0-D1 (Rewind bottom mech. plate assy.)

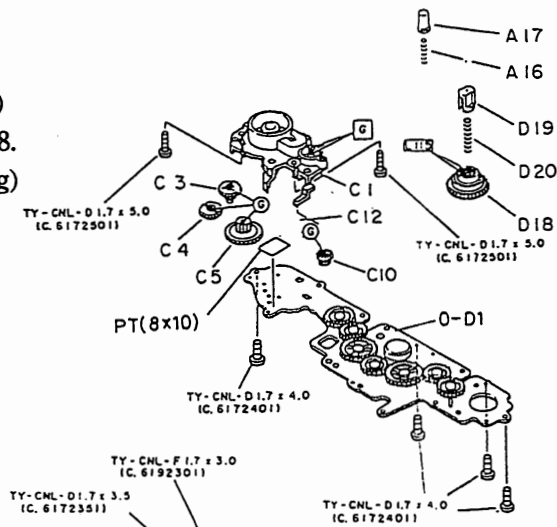
1) C3, C4, C5, C10 (Reduction gears)

2) D19, D18, D20 (Rewind fork, ...gear, ...spring)

Apply L115 to the place between D19 and D18.

3) A17, A16 (Film cartridge retainer pin, ...spring)

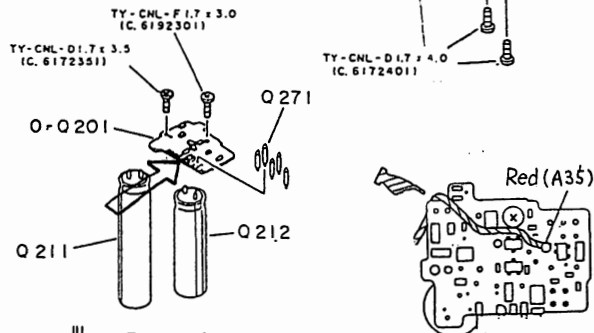
4) 0-D1, 4 screws



6-6. 0-Q201 (Flash P.C.board), Q211, Q212

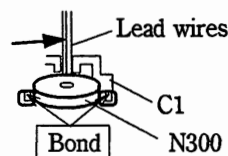
1) Pushing 0-Q201 to the back side, install it.

2) Solder the red lead wire, and arrange it as shown in the diagram right.



6-7. N300 (Piezo-electric buzzer)

Apply a bond to N300 to install it surely.

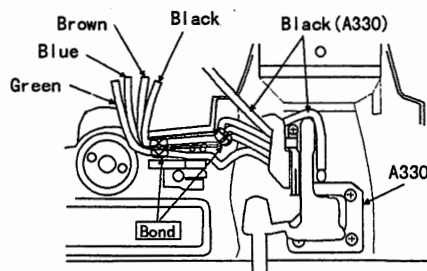


7. TOP COVER

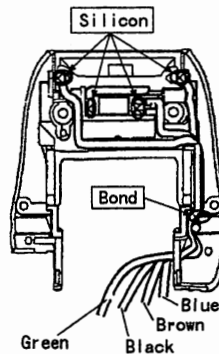
【 Note of assembly 】

1) Arrange the lead wires as shown in the diagram below.

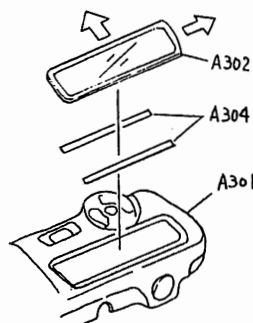
■ Top cover (A301)



■ Flash frame (Q2)



2) Install A302 (LCD window) to the Top cover as shown in the diagram below.



8. ADJUSTMENT AND CONFIRMATION

8-1. FUNCTION CHECK

① Preparation

1. Apply the power to the body.
2. Attach the FA lens to the body, and set the diaphragm ring to "A" position.

② Main SW and Release SW

1. Set the main SW to "ON" and set the mode dial to "PICT".
Then confirm the LCD display showing the Picture mode.
2. Depress the release button halfway. (→ Metering SW/ON)
And make sure that the metering stays on for approx. 10 sec. and the finder LCD is displayed.
3. Turning the Drive mode SW to "□", "Ⓜ" and "☺", check the function at the each mode.

③ Auto/Manual switching

Change the diaphragm ring to manual stop, then confirm the LCD showing "Av".

④ Mode dial

Turning the mode dial to "Tv", "Av" and "M", confirm the LCD display showing exposure mode "Tv", "Av" and "M" at the each stop.

⑤ Film speed setting (manual)

Set the mode dial to "ISO SET".

By turning the select SW to the right, the film speed will be increased.

By turning the select SW to the left, the film speed will be decreased.

⑥ Exposure compensation button

Set the exposure mode to the Picture mode, "Av" or "Tv".

By turning the select SW while depressing the exposure compensation button, the exposure compensation value will be selected.

⑦ AF function

Set the Focus mode SW to "AF".

1. While aiming the AF frame at a subject and depressing the shutter button halfway, AF function will operate to in-focus, and then the focus indication in the viewfinder will light up with sounding an electronic beep.
2. Cover the front of lens with a hand. By depressing the shutter button halfway, AF function will operate to rotate the lens between "∞" and short distance end.
Then the focus indication will blink and the shutter will not be able to release.

⑧ Back cover SW, Film winding/rewinding

1. Load a test film, close the back cover and turn the main SW on, then the film will advance to the first frame. At the same time, the film counter will change "0" to "1".
Release shutter several times and confirm film advance and counter change.
2. Depress the rewind button, make sure that the rewinding of film will start.
Confirm winding and rewinding will not make any strange noise.

⑨ Flash check

1. Set the flash to the pop-up condition, then confirm the flash ready mark () comes up.
2. Set the body to the Picture mode.
3. By depressing the Multi-function button, the flash function will change accordingly as shown below.

"  " → "  " → "  " → " "

4. Check the Automatic flash function () as follows.

When the subject is dark and release the shutter, the flash will fire.

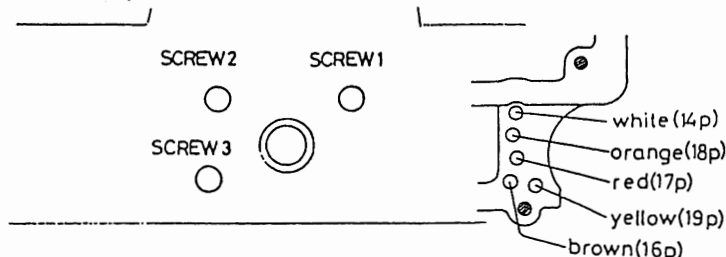
When the subject is bright and release the shutter, the flash will not fire.

8-2. ADJUSTMENT AND CHECK WITH COMPUTER PROGRAM (AE and AF)

【 Required equipment 】

- ☐ Programmed software for 27330 (exclusive equipment) ,
- ☐ Personal computer, ☐ Color display, ☐ Serial interface, ☐ Interface buffer,
- ☐ I/F buffer cable for 27250, ☐ Regulated DC power supply, ☐ Battery (CR2), ☐ Power SW adapter,
- ☐ Shutter tester (7PE-25A3, EC-5000/8000 type), ☐ Light measuring master lens for LX,
- ☐ Diaphragm F8 setting ring K, ☐ Focus master lens for MEF, ☐ Optical regulator for MEF,
- ☐ Hexagonal screw driver 1.5 mm, ☐ CCD positioning jig (Circle for 27230, Cross for 25900),
- ☐ TTL adjusting back cover for 27250 (hand made),
- ☐ DC power adapter (hand made, refer to the service manual for 27250 on page 24),
- ☐ Temporary bottom cover (hand made) and a battery cover,

① Solder 5 lead wires from the I/F buffer cable for 27250.



- ② Install a temporary bottom cover and a battery cover, set the battery to the body, and install the power SW adapter to the release socket.
- ③ Using the programmed software for 27330, check and adjust by following the flow chart (p. 20).

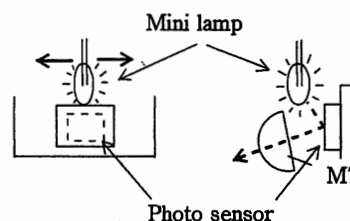
【 Note 】 When adjusting MZ-50 Japan model (Prod. No. 27332, refer to page 19), select "27332 MZ-50 JAPAN MODEL" on the select menu of the software.

8-3. PHOTO SENSOR POSITION

【 Required equipment 】 Mini lamp or equivalent

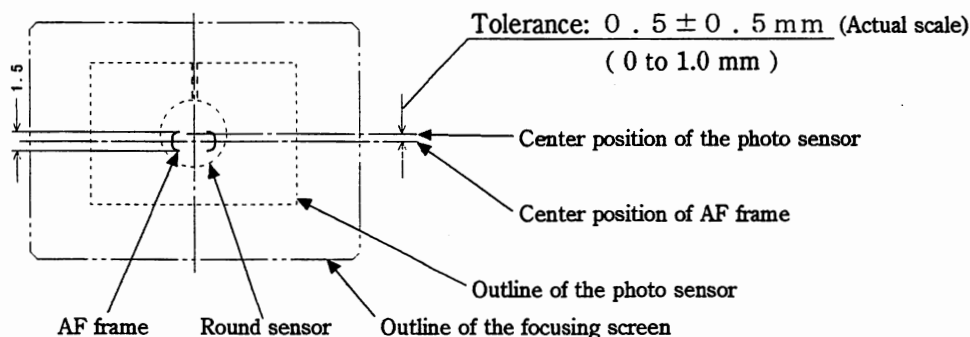
If using a data printing lamp inside a data module as a mini lamp, refer to "Method of removing a data printing lamp from a data module" on page 27. And apply DC 2.0V to the lamp.

- ① Cover the eyepiece with a black tape.
- ② Strike light by a mini lamp to the photo sensor as shown in the diagram right, and search the position where the pattern of the photo sensor can be seen on the mirror from the mount ring side.



③ 【 Confirmation 】

Confirm the photo sensor in which should be positioned in the tolerance as shown in the diagram below.

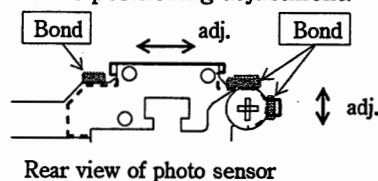


(Continued)

④ 【 Adjustment 】

Loosen TY—CNL—F1.7x4.5, then move the entire photo sensor for the positioning adjustment.

- ⑤ After the adjustment is done, tighten the screw and confirm the position again. Then apply a bond to fix the photo sensor as shown in the diagram right.



【 Reference 】 If a lens with a large aperture (ex. FA 50mm f/1.4) is mounted on the body, the pattern of the photo sensor will be seen easily on the 1st mirror.

8-4. EXPOSURE VALUE AND DX SWITCHING

【 Required equipment 】 Shutter tester (EF—8000, EF—5000, 7PE—25A3 type or equivalent)
Master lens for 24500 (ML—245)

【 Confirmation 】 Exposure value

- ① Set the battery to the body.
- ② Attach the master lens to the body, and set the diaphragm ring to "A".
- ③ Set the main SW to "ON", Focus mode SW to "MF" and Mode dial to "PICT".
- ④ Open the back cover, and push the back cover key (0—A4) to set the switch on.
- ⑤ Set the body to the shutter tester and check the exposure value.

【 Standard 】 Using Master lens for 24500 (ML—245) at programmed AE mode (picture mode).

LV 6 to 13	— 0 . 5 0 to + 0 . 7 0 EV
LV 14	— 0 . 2 5 to + 0 . 9 5 EV
LV 15	± 0 . 0 0 to + 1 . 2 0 EV

※ Check at other exposure modes if necessary.

【 Confirmation 】 DX switching

- ⑥ Load a DX coded film. (ISO400, 200, 100, etc.)
 - ⑦ Check ISO setting (the film speed will appear on the LCD panel) by loading a different type of film.
- ※ Loading ISO 5000 DX film (handmade) can be checked conductivity of the all contacts.

8-5. AUTOFOCUS CHECK

【 Required equipment 】 Optical regulator for MEF or equivalent

Focus master lens for MEF or equivalent

1) 【 Confirmation 】 Autofocus (by using Focus indicator)

- ① Attach the focus master lens to the body, set the focus mode SW to "MF".
Set the body in front of the collimator of the optical regulator.
- ② Turn the focusing ring to the right end, and then gradually return the focusing ring to the position where the in-focus mark appears, and read the scale of focus master lens; A.
Turn the focusing ring to the left end, and then return the focusing ring in the same manner, and read the scale; B.
- ③ Center point of A and B — $(A+B)/2$ — should be within a range of —0.05 to +0.06 mm.

【 Note 】 When checking MZ—50 Japan model (Prod. No. 27332), refer to "Concerning MZ—50 QD Japan model" on page 19.

2) 【 Confirmation 】 Focus mode

Attach the FA or F lens to the body, set the focus mode SW to "AF", and confirm the AF functions and switching of AF and MF.

8-6. MIRROR FUNCTION CHECK

- ① Apply DC 1.5V to the mirror motor.

(The red wire should be connected a positive terminal (+).)

Set B11 (Mirror drive lever) at the top end stroke (Ⓐ).

→ Mirror up condition

Check the function of the mirror sheet by using a finger.

Keeping away the mirror sheet at the bottom end of stroke, make sure that the mirror sheet returns to the top end position.

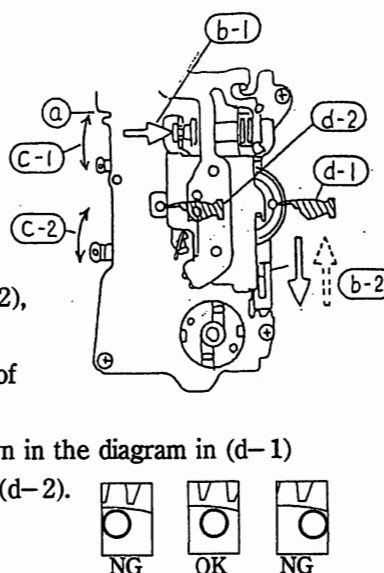
- ② Push the lever of G100 (b-1) to release the latch lever.

And push down the sliding lever to the bottom end and let go (b-2), it should return to the original top position by the spring tension.

- ③ Apply DC to the mirror motor, and check the movement strokes of the mirror driving (c-1) and the shutter charge lever (c-2).

- ④ Apply DC to the mirror motor, set the hole of white gear as shown in the diagram in (d-1) and set the position of the gear's hole as shown in the diagram in (d-2).

→ Wind completed condition



- ⑤ At the wind completed condition, when pushing up the 1st and 2nd mirror each to approx. 3 mm and let go, each mirror should return to the original position.

☆ Set the Front housing block to the wind completed condition when installing the block to the main unit.

8-7. 1ST AND 2ND MIRROR POSITION

【 Required equipment 】 Optical regulator for MEF

Mirror angle adjusting jig for 26900

- ① Set the mirror housing block to the optical regulator.

☆ Make sure that the finder and related parts should be removed from the housing block to check the 1st mirror position.

- ② 【 Adj/Confirmation 】 Make sure that a laser beam should be seen on the screen of optical regulator within the tolerance below.

Tolerance ... X-axis: $\pm 15'$
Y-axis: $\pm 10'$

Adjust Y-axis of 1st and 2nd mirror positions to "0" by moving the mirror seat receptacles (B58).

- ③ As shown in the diagram, when the Mirror angle adjusting jig is set on the Front housing, a laser beam can be seen near the 1 mm hole of the jig.

【 Attention!!! 】 Be careful not to look laser beam directly to prevent your eyes from being trouble.

☆ This jig has a small amount of play forward and backward. Make sure that the jig is held at the position indicated by the arrow (↓), by using tweezers or similar tool, when the beam position is checked.

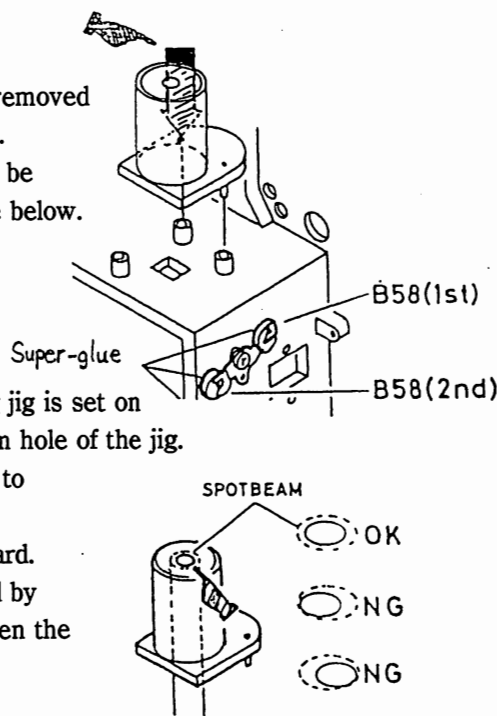
- ④ 【 Adjustment 】 2nd mirror position (fin adj.)

Move B58 (for 2nd mirror) to adjust the laser beam to the located at the center of the hole as shown in the diagram right.

- ⑤ 【 Confirmation 】 Move the mirror seat up and down several times.

Make sure that the position of the laser beam stays the same.

- ⑥ After confirmation is done, apply super-glue to two B58's.



【 Table of data 】

1) Battery life and Possible length of bulb exposure time

Temperature	20 °C /68 °F	-10 °C /14 °F
General use	about 100 rolls	about 30 rolls
Flash use (using flash 50% of the times)	about 25 rolls	about 15 rolls
" (using flash 100% of the times)	about 12 rolls	about 7 rolls
Bulb exposure time	about 8 hours	about 2 hours

※ Using the new CR2 battery and 24-exposure roll of film

2) Consumption current

Power SW off (Back cover closed)	50 μ A or less
Power SW on (Metering off)	
with FA or F lens	250 μ A or less
with A or M lens	260 μ A or less
Metering	120 mA or less
Exposing at the bulb	150 mA or less
When AF motor is operating	700 mA or less
When film is rewinding	500 mA or less

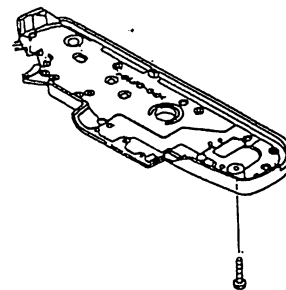
※ Using a regulated DC power supply (5.5V, 3A or more)

【 Concerning MZ-50 QD Japan model (Prod. No.27332) 】

This camera is on sell in Japan market only. For marking, the one retainer screw for the bottom cover is black color as shown in the diagram right.

Refer to the Service parts list for Prod. No. 27332.

The exclusive points for MZ-50 QD Japan model are mentioned below.



1) Exclusive operation

When a lens with setting the diaphragm ring to manual stop is attached to the body, the LCD display blinks "Av --" and the shutter cannot be released.

2) Adjustment and check with the computer program

Select "27332 MZ-50 JAPAN MODEL" on the select menu of the programmed software.

3) Checking autofocus by using Focus indicator:

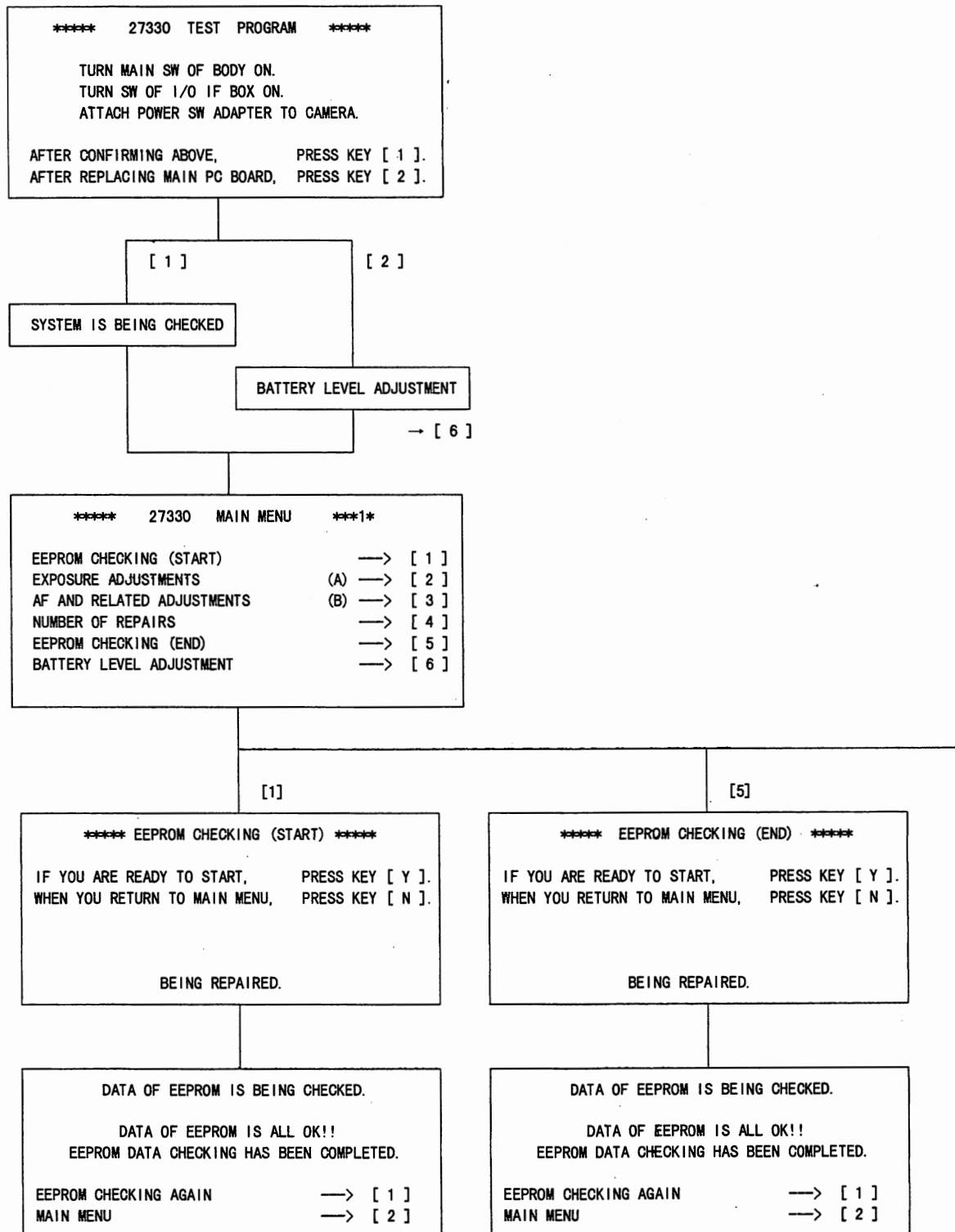
When checking the autofocus by attaching the focus master lens to the body, set the body to operate the focus indicator as follows:

- 1) Insert the battery to the body.
- 2) Set the main SW to "ON" and set the focus mode SW to "MF".
- 3) Open the back cover.
- 4) Open the battery cover.
- 5) Depress the exposure compensation button and the release button fully.
- 6) While keeping above condition (- 5), reinsert the battery to the body.

※ After checking the autofocus, reset the body as follows:

- 1) Set the main SW on.
- 2) Open the battery cover, and then reinsert the battery to the body.

【 27330 PROGRAM SOFTWARE FLOW CHART 】



*** MAIN MENU ***

[2]

***** SELECT AE TYPE *****
 TYPE 1 (LV6, 8, 10, 12, 16) — [1]
 TYPE 2 (LV6, 9, 12, 15) — [2]

[Note]: Select 1 or 2 for your light source.

***** 27330 < A GROUP > *****
 BV ADJUSTMENTS —→ [1]
 TTL FLASH QUENCH SIGNAL ADJUSTMENT —→ [2]
 MAIN MENU —→ [3]

[Note]: AF/EE pulse and AV adjustments are not necessary for 27330.

[1]

[2]

***** BV ADJUSTMENTS *****
 MOUNT F-8 SET RING ONTO CAMERA.
 ATTACH LIGHT MEASURING MASTER LENS
 FOR LX WITH WIDE OPENED POSITION.
 SET LIGHT SOURCE TO LV 6.
 AFTER CONFIRMING ABOVE, PRESS KEY [Y].
 WHEN YOU RETURN TO FRONT MENU, PRESS KEY [N].
 BEING ADJUSTED

***** TTL QUENCH SIGNAL ADJUSTMENT *****
 MOUNT F-8 SET RING ONTO CAMERA.
 ATTACH LIGHT MEASURING MASTER LENS
 FOR LX WITH WIDE OPENED POSITION.
 SET LIGHT SOURCE TO LV 8.
 ATTACH TTL ADJUSTING BACK COVER ONTO CAMERA.
 AFTER CONFIRMING ABOVE, PRESS KEY [Y].
 WHEN YOU RETURN TO FRONT MENU, PRESS KEY [N].
 BEING ADJUSTED

SET LIGHT SOURCE TO LV 16.
 AFTER CONFIRMING ABOVE, PRESS KEY [Y].
 WHEN YOU RETURN TO FRONT MENU, PRESS KEY [N].
 BEING ADJUSTED

TTL QUENCH SIGNAL ADJUSTMENT HAS BEEN COMPLETED.
 TTL QUENCH SIGNAL ADJUSTMENT AGAIN —→ [1]
 A GROUP MENU —→ [2]
 B GROUP MENU —→ [3]

BV ADJUSTMENTS HAVE BEEN COMPLETED.
 AV AND BV ADJUSTMENTS AGAIN —→ [1]
 NEXT OF TTL FLASH QUENCH SIGNAL ADJUSTMENT —→ [2]
 A GROUP MENU —→ [3]

*** MAIN MENU ***

[3]

***** 27330 < B GROUP > *****

CCD POSITION ADJUSTMENTS	—> [1]
CCD ADJUSTMENT	—> [2]
AF C ADJUSTMENT	—> [3]
AF ADJUSTMENT	—> [4]
MAIN MENU	—> [5]

[1]

***** CCD POSITION *****

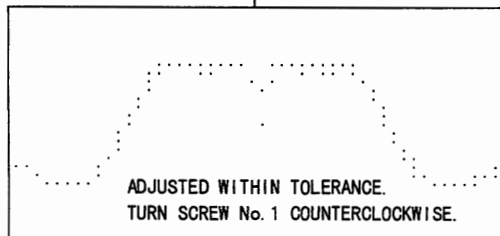
CCD POSITION No.1 ADJUSTMENT	—> [1]
CCD POSITION No.3 ADJUSTMENT	—> [2]
CCD FOCUS ADJUSTMENT	—> [3]
B GROUP MENU	—> [4]

[1]

***** CCD POSITION No.1 ADJUSTMENT *****

MOUNT CCD ADJUSTING TUBE (CIRCLE) ONTO CAMERA.
SET LIGHT SOURCE TO LV 12.
SET FOCUS-MODE SW OF CAMERA TO MF.

AFTER CONFIRMING ABOVE, PRESS KEY [Y].
WHEN YOU RETURN TO FRONT MENU, PRESS KEY [N].



CCD POSITION No.1 ADJUSTMENT HAS BEEN COMPLETED.

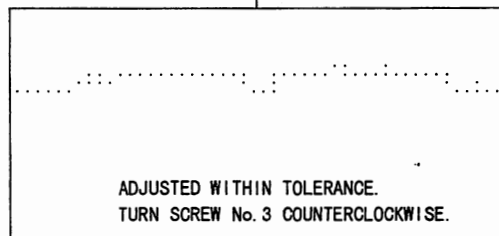
CCD POSITION No.1 ADJUSTMENT	—> [1]
CCD POSITION No.3 ADJUSTMENT	—> [2]
CCD FOCUS ADJUSTMENT	—> [3]
B GROUP MENU	—> [4]

[2]

***** CCD POSITION No.3 ADJUSTMENT *****

MOUNT CCD ADJUSTING TUBE (CROSS) ONTO CAMERA.
SET LIGHT SOURCE TO LV 12.
SET FOCUS-MODE SW OF CAMERA TO MF.

AFTER CONFIRMING ABOVE, PRESS KEY [Y].
WHEN YOU RETURN TO FRONT MENU, PRESS KEY [N].



CCD POSITION No.3 ADJUSTMENT HAS BEEN COMPLETED.

CCD POSITION No.1 ADJUSTMENT	—> [1]
CCD POSITION No.3 ADJUSTMENT	—> [2]
CCD FOCUS ADJUSTMENT	—> [3]
B GROUP MENU	—> [4]

[3]

[3]

***** CCD FOCUS ADJUSTMENT *****

MATCH AUTOFOCUS FRAME IN CAMERA WITH CHART
IN COLLIMATOR OF OPTICAL REGULATOR
MOUNT FOCUS MASTER LENS ONTO CAMERA.
SET FOCUS-MODE SW OF CAMERA TO MF.

AFTER CONFIRMING ABOVE, PRESS KEY [Y].
WHEN YOU RETURN TO FRONT MENU, PRESS KEY [N].

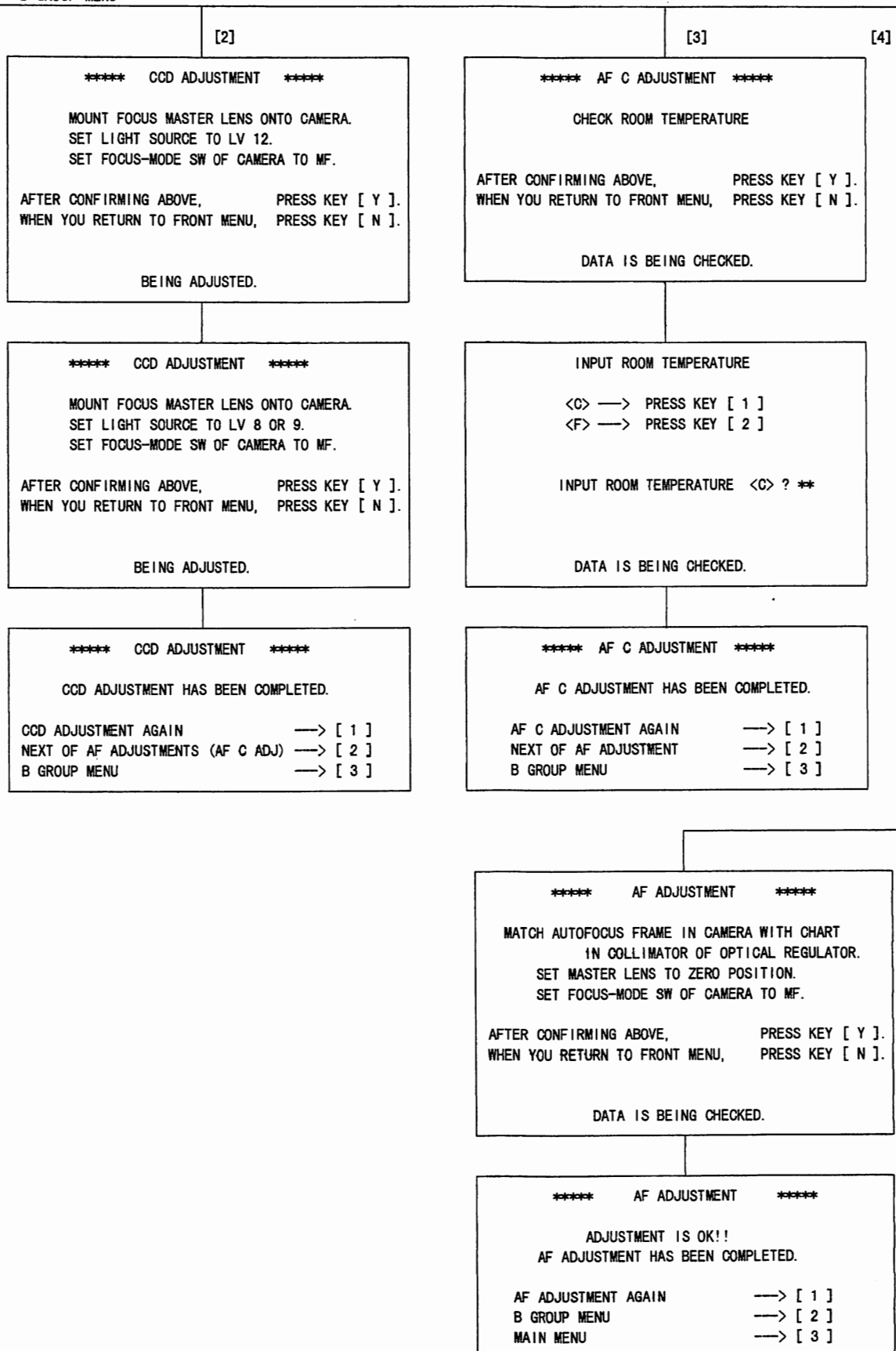
BEING PREPARED.

CCD FOCUS ADJUSTMENT HAS BEEN COMPLETED.
FOCUS DATA. = -**

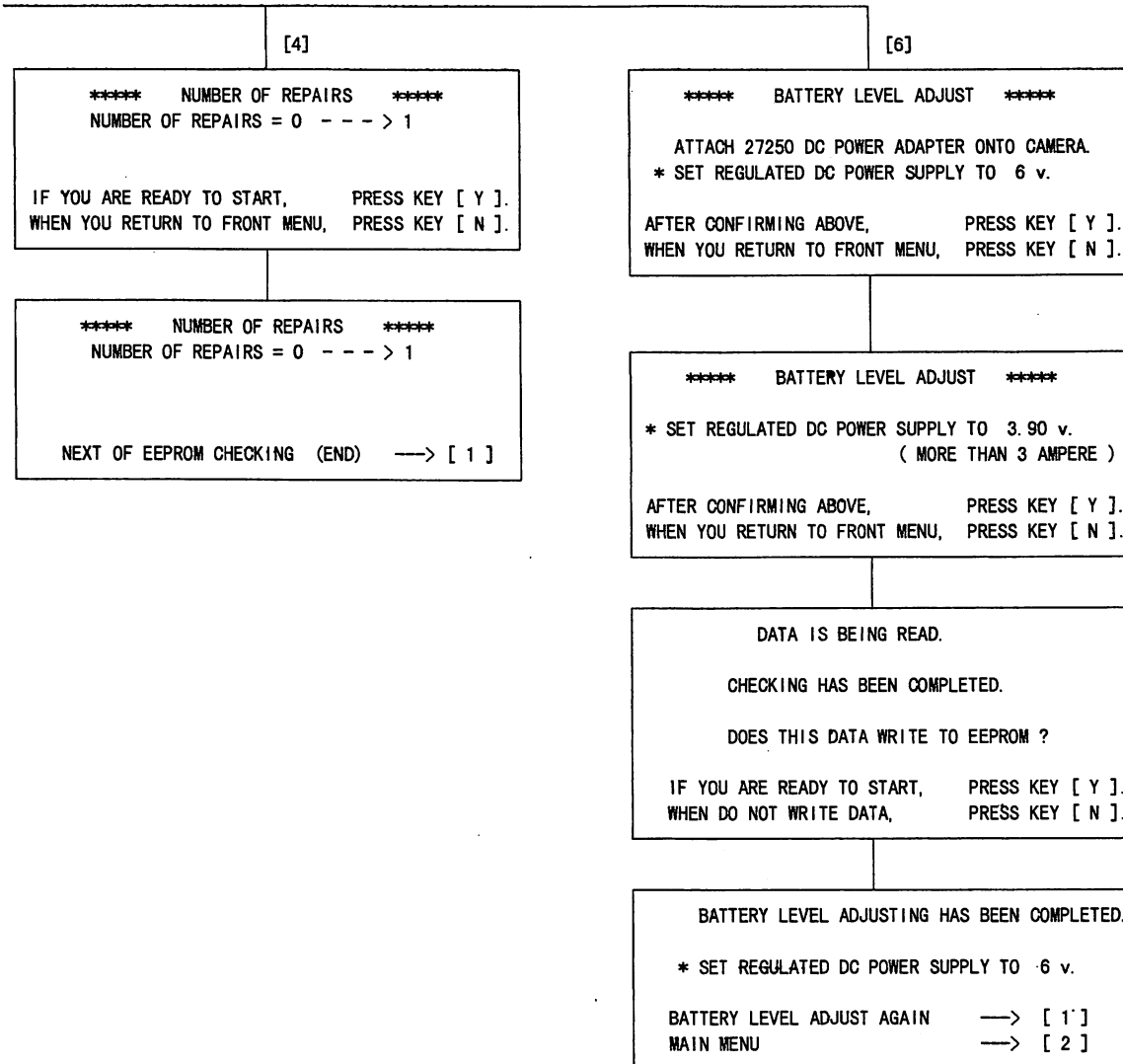
CCD POSITION No.1 ADJUSTMENT	—> [1]
CCD POSITION No.3 ADJUSTMENT	—> [2]
CCD FOCUS ADJUSTMENT	—> [3]
CCD ADJUSTMENT	—> [4]
B GROUP MENU	—> [5]

*** MAIN MENU ***

*** B GROUP MENU ***



*** MAIN MENU ***



【 TABLE OF TESTERS, JIGS AND TOOLS 】

☆ Exclusively used for MZ-50/ZX-50

Item No.	Description
1.	Program software for 27330

☆ Others (PC/AT: IBM compatible computer)

Item No.	Description
2.	AF positioning jig (CIRCLE) for 27230 (AF module adjusting tube)
3.	AF positioning jig (CROSS) for 25900 (AF module adjusting tube)
4.	Mirror angle adjusting jig for 26900 (MAAJ-269)
☐	Mini lamp (see page 16 "8-3")

Used in common with MZ-5 as follows:

- ☐ DC power adapter (handmade, refer to Service manual for 27250 on page 24)
- ☐ Temporary bottom cover (handmade, for installing the battery cover at program adj.)
- ☐ TTL flash adjusting back cover for 27250
(handmade, the back cover installed LX 1st curtain- new type- on the pressure plate)
- 5. I/F buffer cable for 27250 ... (used in common with other AF-SLR)
- 6. Personal computer (for PC-98 or PC/AT)
- 7. Color display (for PC-98 or PC/AT)
- 8. Module board (for PC-98 or PC/AT)
- 9. Interface cable (for PC-98 or PC/AT)
- 10. Serial interface (SIFI-269)
- 11. Interface buffer (IFB-269)
- 12. Power SW adapter for AF-SLR
- 13. Collimator chart 25900 for optical regulator (OCRC-259)
- 14. Hexagonal driver 1.5mm (HD-M1.5)
- 15. Shutter tester (7PE-25A3, EF-5000, EF-8000)
- 16. Optical regulator for 24300(MEF)
- 17. Exposure master lens for 24500(Super A) (ML-245)
- 18. Diaphragm F8 setting ring K (KA-0-1A)
- 19. Focus master lens for 25900(SFX) (ML-259, KML-01)
- 20. Light measuring master lens for 24000(LX) (LML-240)
- 21. Dial gauge comparator (PH-2)
- 22. Block gauge (229N-A01-A2)
- 23. Mount block (1620-A, 23600N - A1,A104-A)
- 24. Mount block spacer (23600N-A01,A104-A-A)
- 25. Mount block holder for 259 (23600N-A01,A104-A-B)
- 26. 1000mm collimator
- 27. Regulated DC power supply (capable current at least 3A)
- 28. Circuit tester

*Notice of order for testers, jigs and tools

When ordering the above items, the description on your order may be regulated by
 " STILL CAMERA SERVICE TOOLS MASTER PROOF LIST " (refer to the Technical-
 Information No. T-65) except goods such as the no mention on the list.
 Therefore, use the product No.95901, parts No. and the description that are exactly the same as
 the list for your order; refer to the order list on next page.

【 ORDER LIST OF TESTERS, JIGS AND TOOLS FOR 27330 】

Date: Apr.'97

[Order No. : Product No.95901 and Parts No.]

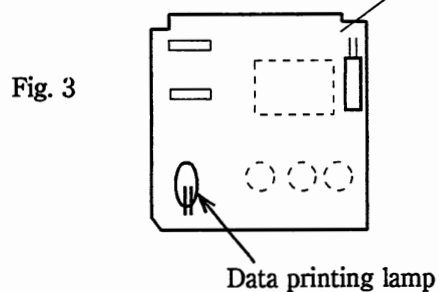
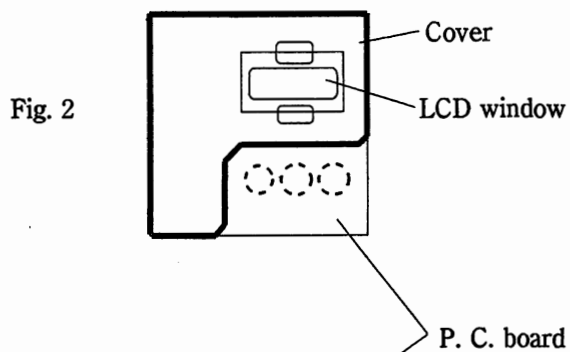
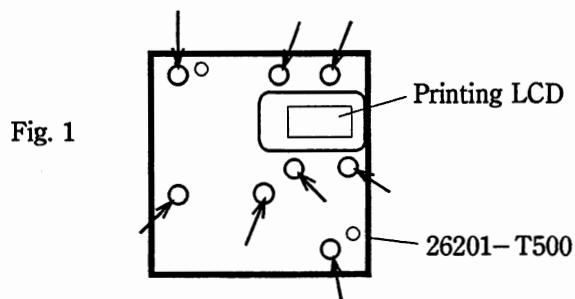
Item No.	Description of order	Parts No.	Remark
1.	Program software for 27330 (PC-98)	—	Lending only
	PROGRAMMED SOFT PC/AT 27330 (5INCH)	M244-00A	for PC/AT, 5 inch FD
	" (3.5INCH)	M244-00B	for PC/AT, 3.5 FD
			(TI: Technical information)
2.	AF POSITIONING JIG CPJ-27230 (CIRCLE)	M214	TI. No.T-123
3.	AF POSITIONING JIG CPJ-259 (CROSS)	M213	TI. No. T-123
4.	POSITIONING JIG MAAJ-269	J95	
5.	I/F BUFFER CABLE FOR 27250	M515	
6.	Personal computer	N/A	
7.	Color display	N/A	
8-1.	MODULE BOARD PIO-24/24T	N/A	for PC-98, TI. No. T-123
-2.	PC/AT BOARD PIO-32/32 (PC)	N/A	for PC/AT, TI. No. T-123
9-1.	INTERFACE CABLE DXIC-P98	N/A	for PC-98, TI. No. T-123
-2.	I/F CABLE PC/AT PCA96PS	N/A	for PC/AT, TI. No. T-123
10.	SERIAL INTERFACE SIFI-269	N/A	TI. No. T-123
11.	INTERFACE BUFFER IFB-269	N/A	TI. No. T-123
12.	POWER SW ADAPTER	M123	
13.	COLLIMATOR CHART OCRC-259	M21	
14.	HEXAGON DRIVER HD-M1.5	K72	
15-1.	Shutter tester 7PE-25A3	N/A	
-2.	TESTER EF-5000 (WITH RW-3505)	M3-01	TI. No. T-99
-3.	TESTER EF-8000 (WITH RW-3508)	M49-01	TI. No. T-99
16.	Optical regulator for 24300	N/A	
17.	MASTER LENS ML-245	N28	
18.	DIAPHRAGM SET RING KA-0-1A	N26	
19.	FOCUS MASTER LENS KML-01	N17	
20.	EXPOSURE MASTER LENS LML-240	N27	
21.	DIAL GAUGE COMPARATOR PH-2	N1	
22.	BLOCK GAUGE 229N-A01-A2	N4	
23.	MOUNT BLOCK 1620-A	N47	in exchange for 236N-A1s
	MOUNT BLOCK 236N-A1,A104-A	N/A	
24.	M/B SPACER 236N-A1,A104-A-A	N/A	
25.	M/B HOLDER 236N-A1,A104-A-B	N7	for M/B spacer 236N-A1
26.	Collimator 1000 mm	N/A	
27-1.	DC POWER SUPPLY PR-18-3	M29	18V, 3A
-2.	DC POWER SUPPLY PR-18-5	M30	18V, 5A
28.	DIGITAL MULTI METER	M54	

【 Method of removing a data printing lamp from a data module 】

【 Required parts 】 A data module (ex. 26201-T500)

【 Procedure of removing 】

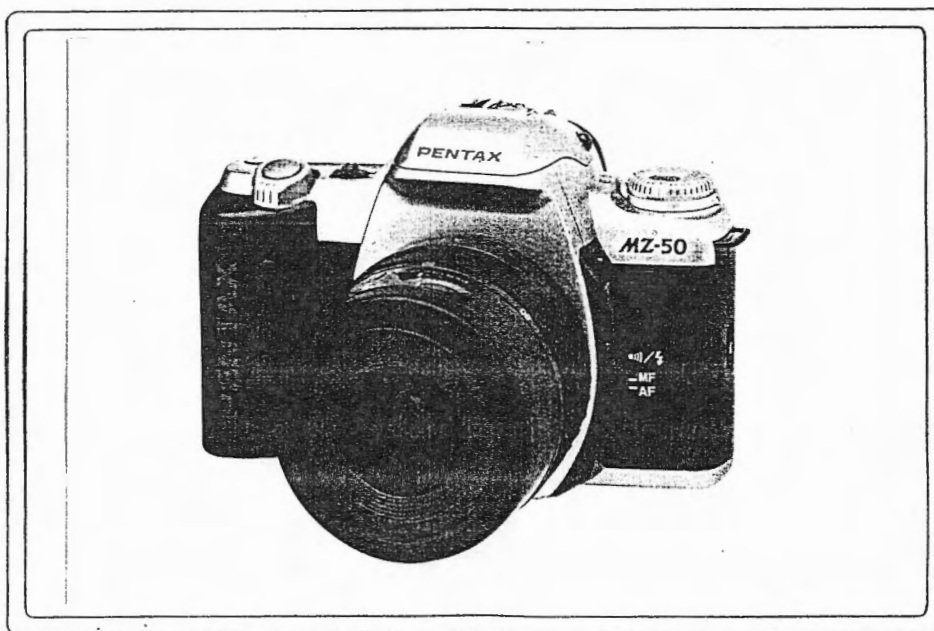
- 1) Remove the part of the data module at the position indicated by the arrow, by using a cutter, as shown in Fig. 1.
- 2) Set the data module as shown in Fig. 2, and remove the cover.
- 3) Unsolder the data printing lamp from the P.C. board as shown in Fig. 3.
- 4) Solder 2 lead wires to the lamp.



PENTAX®

Service Parts List

MZ-50 QUARTZ
DATE



PRODUCT No. 27330 M Z - 5 0 QUARTZ DATE

PRODUCT No. 27332 M Z - 5 0 QUARTZ DATE

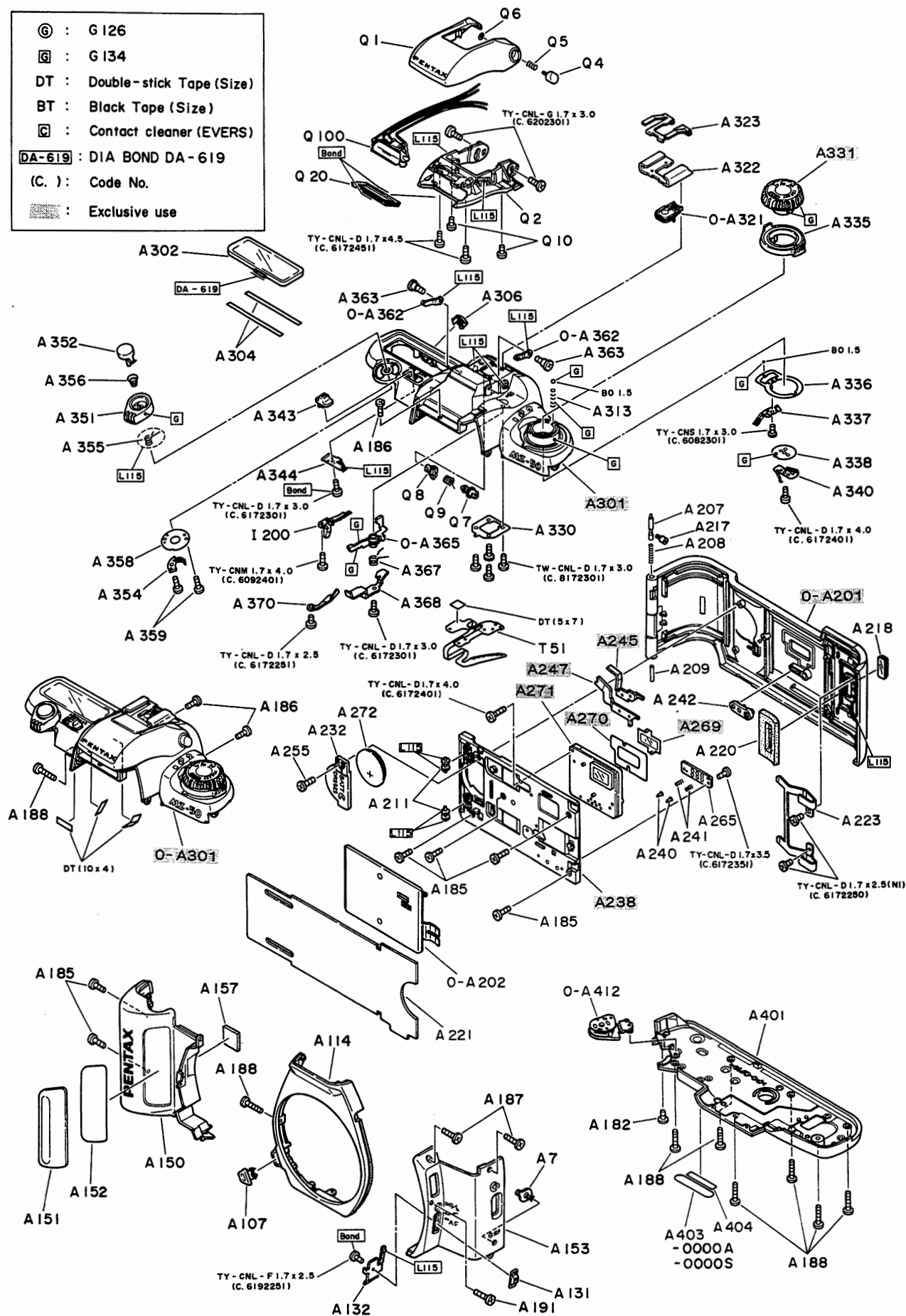
PRODUCT No. 27334 Z X - 5 0

PRODUCT No. 27336 M Z - 5 0

PRODUCT No. 27338 Z X - 5 0 QUARTZ DATE

EXPLODED ILLUSTRATION

- G : G 126
 G : G 134
 DT : Double-stick Tape (Size)
 BT : Black Tape (Size)
 C : Contact cleaner (EVERS)
 DA-619 : DIA BOND DA-619
 (C.) : Code No.
 : Exclusive use



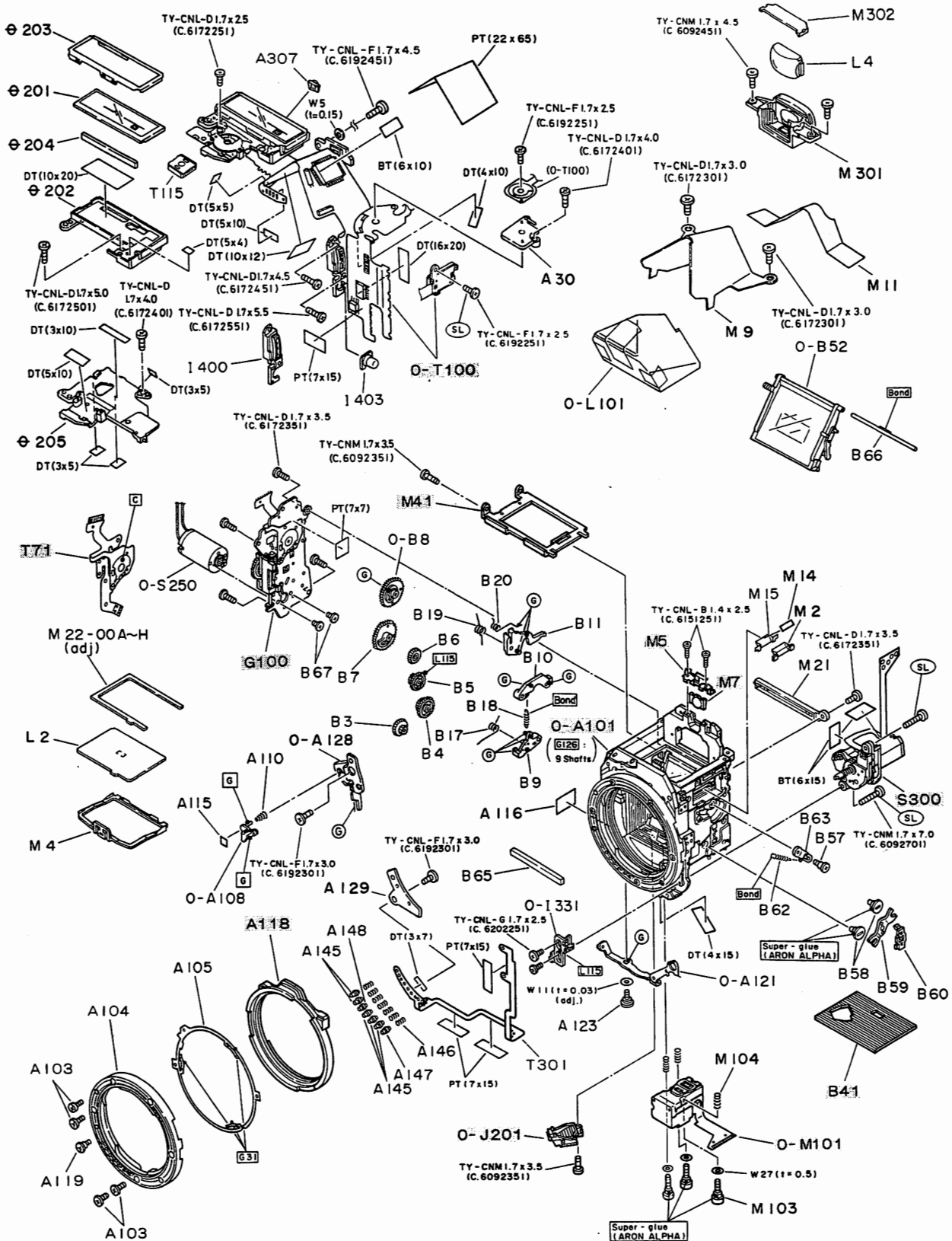
Product No.27330

PENTAX MZ-50 QUARTZ DATE

Fig.1

EXPLODED ILLUSTRATION

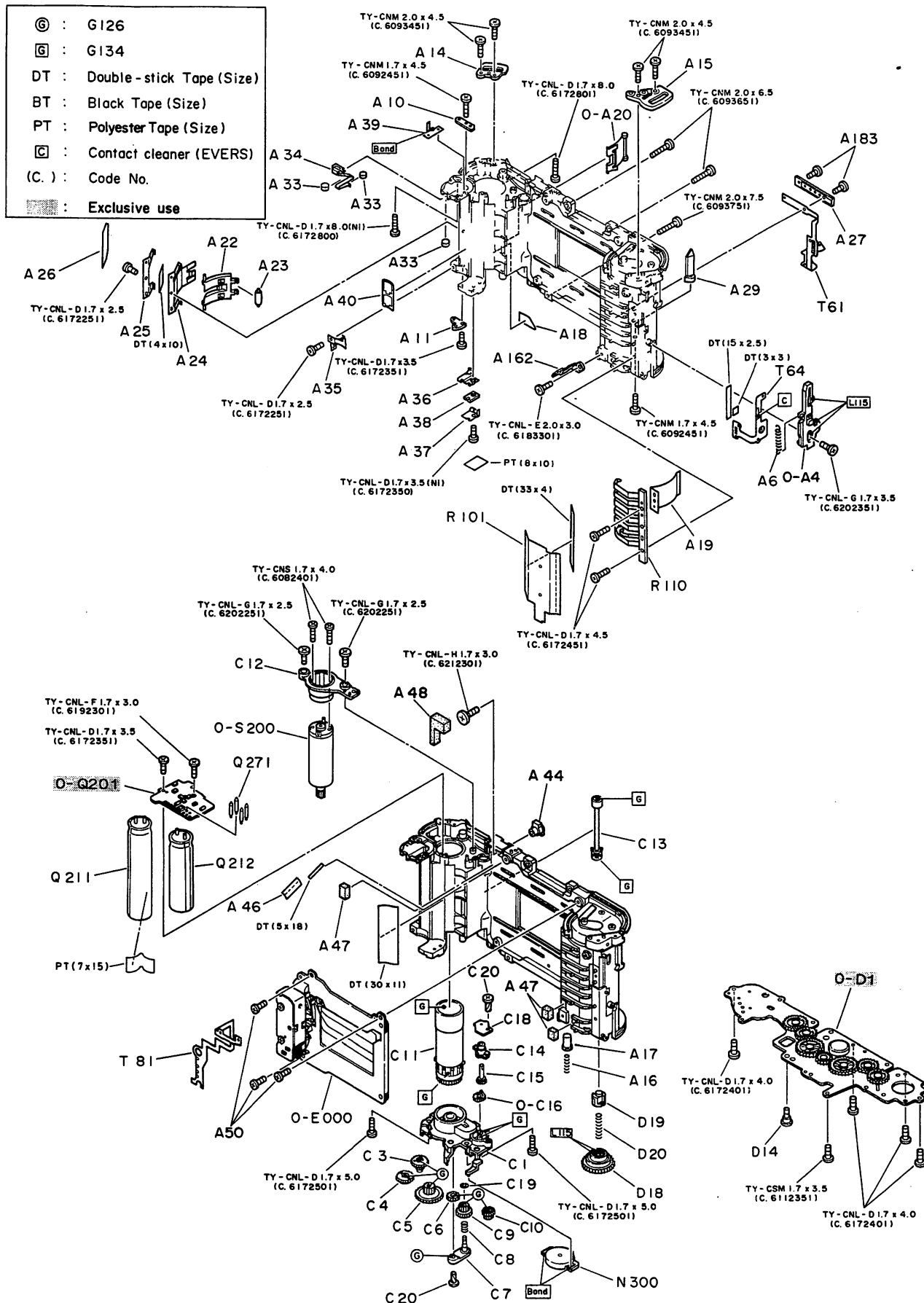
◎ : G126 □ : G134 DT : Double-stick Tape (Size) BT : Black Tape (Size)	PT : Polyester Tape (Size) □ : Contact cleaner (EVERS) (SL) : Three bond 1405D (C.) : Code No.	: Exclusive use
---	--	-----------------

**Product No.27330**

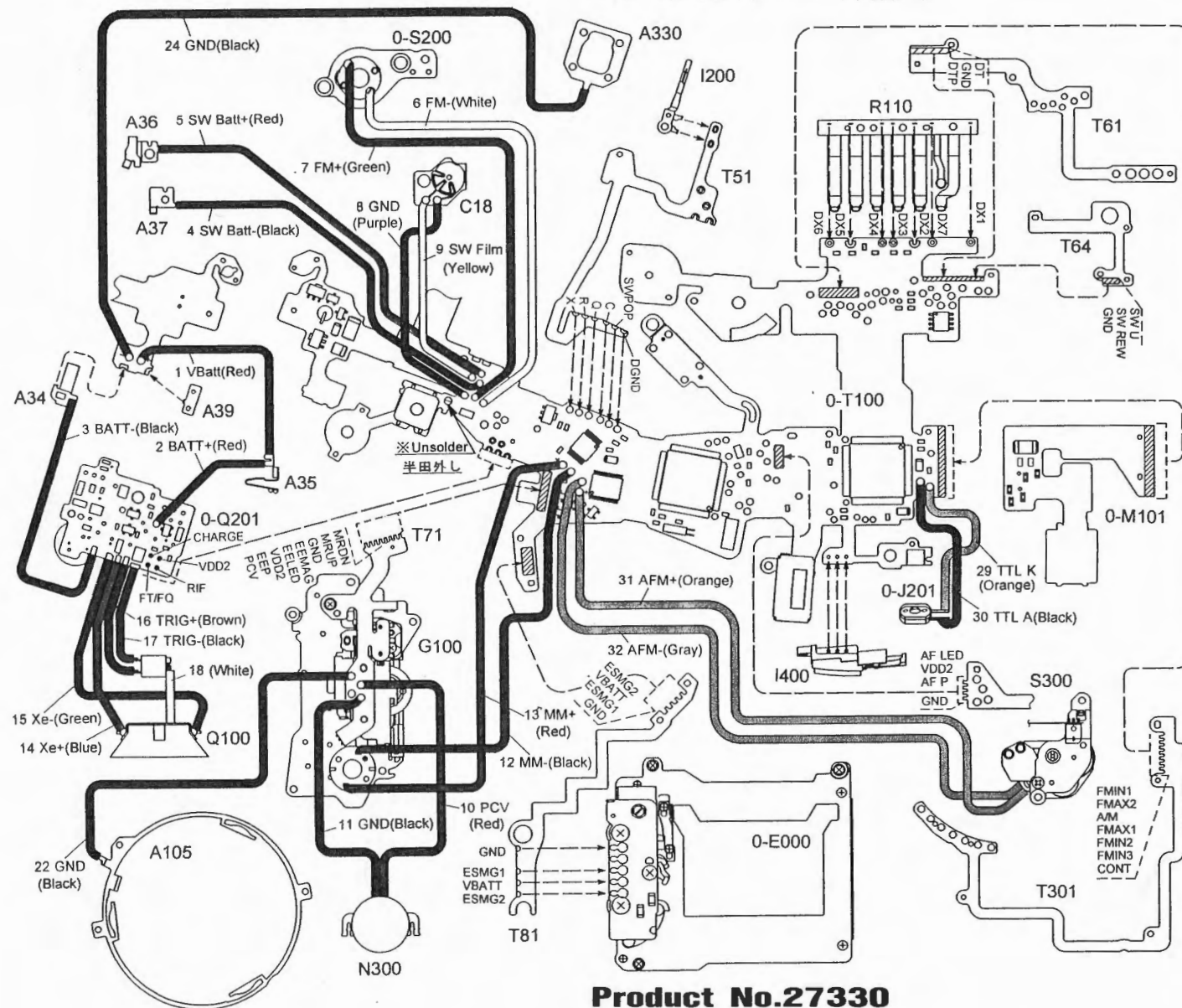
PENTAX MZ-50 QUARTZ
DATE

Fig. 2

A
B
C
D
E
F
G



DISTRIBUTING WIRES



LIST OF SERVICE PARTS

Product No. 27330

PENTAX MZ-50 QUARTZ DATE

Note: 1. The parts with numbers starting '0-' are assemblies.

2. Only available parts are listed below.

※ Q=Quantity A=Address/部品番号位置 (Fig/図・Vertical/縦 A-G・Horizontal/横 1-5)

Parts No.	Description	Q	Interchangeability	NM No.	A
0-A4	Back cover key assy. (A4, A5) 鍵ヘラ [組]	1	27250-0-A4		3C5
A6	Back cover key spring 鍵ヘラバネ	1	26900-A6		3C4
A7	Rewind SW 巻き戻しSW	1	27250-A7		1F3
A10	Back cover shaft receptacle, top 後蓋上部軸受け	1	27250-A10		3A3
A11	Back cover shaft receptacle, bottom 後蓋下部軸受け	1	27250-A11		3B3
A14	Strap hook, right 吊り金具S	1	27250-A14		3A3
A15	Strap hook, left 吊り金具P	1	27250-A15		3A4
A16	Film cartridge retainer spring パトローネ上昇バネ	1	27250-A16		3F4
A17	Film cartridge retainer pin パトローネ上昇ピン	1	27250-A17		3F4
A18	Film position marker フィルム位置シール	1	27250-A18		3B3
A19	Film cartridge spring パトローネバネ	1	27250-A19		3C4
0-A20	Film retainer plate assy. (A20, A21) スプールローラー板 [組]	1	27250-0-A20		3A4
A22	Film guide フィルムガイド	1	27250-A22		3B2
A23	Film guide roller フィルムガイドローラー	1	27250-A23		3B2
A24	Film guide spring フィルムガイドバネ	1	27250-A24		3C2

Parts No.	Description	Q	Interchangeability	NM No.	A
A25	Film guide retainer フィルムガイド押さえ	1	27250-A25		3B1
A26	Light seal 遮光シート	1	27250-A26		3B1
A27	Data contact cover 接点カバー	1	27250-A27		3B5
A29	Film cartridge guide パトローネガイド	1	27250-A29		3B4
A30	Mode SW base plate モードSW親板	1	27260-A30		2C3
A33	Battery contact piece cushion 電池接片モルト	3	26500-C26		3B2 3B3
A34	Battery contact piece (-) 電池接片 (-) パネ	1	27250-A34		3B2
A35	Battery contact piece (+) 電池接片 (+) パネ	1	27250-A35		3C2
A36	Batt. cover SW moving contact piece 電池蓋SW可動接片	1	27250-A36		3C3
A37	Batt. cover SW fixed contact piece 電池蓋SW固定接片	1	27250-A37		3C3
A38	Batt. cover SW spacer 電池蓋SWスペーサー	1	27250-A38		3C3
A39	Battery select contact piece バッテリー切り替え検知接片	1	27250-A39		3A2
A40	Battery positioning seal 電池シール	1	27250-A40		3B2
A44	Cover piece パノラマ穴ふさぎ	1	27264-A44		3E3
A46	Shutter light seal EO遮光板	1	27250-A46		3E2
A47	Light seal 遮光モルト	3	27250-A47		3E2 3F3
A48	Light seal B 遮光モルトB	1	27264-A48		3D3
A50	Shutter block retainer screw EO段ビス	3	27250-A50		3F2

Parts No.	Description	Q	Interchangeability	NM No.	A
0-A101	Front housing assy. 前板ブロック [組] (A101, A103 x4, A104, A105, A108~A111, A115, A116, A118, A119, A121~A125, A128 A129, A134, A145 x5, A146 x7, A147, A148 B3~B11, B15, B17, B18, B19, B20, B41, B52 B55, B57, B58 x2, B59, B60, B62, B63, B65, B66, B67 x2, B69, B70, G100, I331, I332, J201, J203, L1, L6, M4, M21, M41, S250, S251, T83, T301, T312, TY-CNL-D1. 7x3. 5 x5, TY-CNL-F1. 7x3. 5, TY-CNL-G1. 7x2. 5 x3, TY-CNM1. 7x3. 5 x2 W11)	1			2E4
A103	Mount ring retainer screw A マウント止めネジA	4	27234-A103		2G1
A104	Mount ring マウント	1	27234-A104		2F1
A105	Mount spring マウントバネ	1	27230-A105		2F2
A107	Mount lock button ロック解除ボタン	1	27250-A107		1G2
0-A108	Mount lock guide plate assy. (A108, A109, A111) ロック鉤座 [組]	1	27250-0-A108		2F2
A110	Mount lock guide plate spring ロックピンバネ	1	26900-A110		2E2
A114	Front cover 前飾り	1	27261-A114		1F2
A115	Spacer seat スペーサーシート	1	27250-A115		2E2
A116	Light seal seat 遮光シート	1			2E3
A118	Light seal ring 遮光リング	1			2F2
A119	Mount ring retainer screw B マウント止めネジB	1	27234-A119-01		2G1
0-A121	Joint lever assy. (A121, A122, A134) ジョイント連係レバーA [組]	1	27250-0-A121		2F4
A123	Joint lever retainer screw J連係レバー止めネジ	1	27230-A123		2F3
0-A128	Mount lock button base assy. (A128, A124, A125) 鉤ベース [組]	1	27260-0-A128		2E2

Parts No.	Description	Q	Interchangeability	NM No.	A
A129	Connector pin plate 接点ベース	1	27260-A129		2F2
A131	Focus mode lever 切換レバー	1	27250-A131		1G3
A132	Click plate spring 切換クリックバネ	1	27250-A132		1G2
A145	Connector pin コネクタピン	5	24500-A145		2F2 2F3
A146	Connector pin spring マウント接点バネ	7	26900-A146		2F3
A147	Connector pin C コネクタピンC	1	26900-A147		2F3
A148	Connector pin B コネクタピンB	1	24500-A148		2F2
A150	Grip グリップ	1	27260-A150		1F1
A151	Grip rubber グリップゴム	1	27260-A151		1G1
A152	Grip rubber adhesive tape グリップゴム貼付テープ	1	27260-A152		1G1
A153	Body covering, left P側カバー	1	27261-A153		1G3
A157	Main capacitor retainer メインコン押さえモルト	1	27030-C104		1F2
A162	Reinforced plate 補強板	1	27250-A162		3C3
A182	Cover retainer screw B 外観ビスB	1	27250-A182		1F4
A183	Cover retainer screw C 外観ビスC	2	26900-A28		3B5
A185	Cover retainer screw E 外観ビスE	6	27250-A185		1E3 1F1
A186	Cover retainer screw F 外観ビスF	3	27261-A186		1C3 1D2
A187	Cover retainer screw G 外観ビスG	2	26902-A256		1F3
A188	Cover retainer screw H 外観ビスH	8	27250-A188		1E1 1F2 1F4 1G5

Parts No.	Description	Q	Interchangeability	NM No.	A
A191	Cover retainer screw K 外観ビスK	1	27240-A318		1G3
0-A201	Back cover assy. (A201, A207, A208, A209, A217, A218, A220) 後蓋 [組]	1			1D5
A201	Back cover 後蓋	1			1D5
0-A202	Pressure plate assy. (A202, A203, A214 x2) 圧板 [組]	1	27250-0-A202		1F3
A207	Hinge shaft B バタフライ芯棒B	1	25900-A207		1C4
A208	Hinge shaft spring バタフライバネ	1	25900-A208		1C4
A209	Hinge shaft A バタフライ芯棒A	1	25900-A209		1D4
A211	Roller ローラー	2	27250-A211		1E3
A217	Hinge shaft B retainer screw 着脱ピン	1	25900-A217		1C4
A218	Film cartridge window パトローネ窓	1	26302-A218		1D5
A220	Film cartridge window seal 窓遮光モケット	1	26900-A220		1D4
A221	Pressure plate cover 圧板保護カバー	1	26900-A221		1F3
A223	Film cartridge retainer spring パトローネ押さえバネ	1	27250-A223		1E5
A232	Battery cover デット電池蓋	1	27250-A232		1D2
A238	Back cover seat 後蓋親板	1			1E4
A240	Non-cord pin ノンコード接点ピン	2	25201-A224		1E4
A241	Non-cord pin spring 接点ピンバネ	2			1E4
A242	Function button (Dark gray) 切換ボタン (黒灰色)	1	27241-A222-01		1D4
A245	Positive contact piece プラス接片	1			1D4

Parts No.	Description	Q	Interchangeability	NM No.	A
A247	Ground contact piece マイナス接片	1			1D3
A255	Back cover seat retainer screw 後蓋止めビス	1	27250-A255		1D2
A265	Non-code plate ノンコード基板	1	27250-A265		1E4
A269	Data window カバーガラス	1			1D4
A270	Insulation seat 絶縁シート	1			1D4
A271	Data module I Cモジュール	1			1D3
A272	Battery for data back データ用電池	1	25201-T401		1D2
0-A301	Top cover assy. 上飾り [組] (A301, A302, A304 x2, A306, A313, A321~ A324, A325 x3, A330, A331, A335~A338, A340, A343, A344, A351, A352, A354~A356 A358, A359 x2, A361 x2, A362 x2, A363 x2, A365~A368, A370, I200, Q1, Q2, Q4, Q5, Q6, Q7, Q8, Q9, Q10 x2, Q20, Q100, T51, T52, T88 x3, B01.5 x2, TW-CNL-D1.7x3.0 x4, TY-CNS1.7x3.0, TY-CNL-D1.7x2.5, TY-CNL-D1.7x3.0 x2, TY-CNL-D1.7x4.5 x2, TY-CNL-D1.7x4.0, TY-CNL-G1.7x3.0 x2, TY-CNM1.7x4.0)	1			1E2
A301	Top cover 上飾り	1			1C4
A302	LCD window 外部LCD窓	1	27260-A302		1B1
A304	Window retainer tape 両面テープ (ブラック)	2	27260-A304		1C2
A306	Exposure compensation button 背面釦	1	27250-A306		1B3
A307	Exposure compensation switch 背面SW	1	27250-A307		2B2
A313	Dial click spring ダイヤルクリックバネ	1	27250-A313		1C4
0-A321	Accessory shoe base assy. (A321, A324, A325 x3) アクセサリシュー台 [組]	1	27250-0-A321		1B4

Parts No.	Description	Q	Interchangeability	NM No.	A
A322	Accessory shoe アクセサリーシュー	1	27250-A322		1B4
A323	Accessory shoe spring アクセサリーシューバネ	1	26300-A323		1A4
A330	Accessory shoe ground plate シューアース板	1	27250-A330		1C3
A331	Mode dial モードダイヤル	1			1B5
A335	Drive mode lever ドライブレバー	1	27261-A335		1B5
A336	Drive mode lever click plate ドライブレバークリック板	1	27250-A336		1C5
A337	Drive mode lever brush ドライブレバーブラシ	1	27250-A337		1C5
A338	Mode brush reinforced plate P側補強板	1	27260-A338		1C5
A340	Mode brush ブラシ	1	27260-A340		1C5
A343	Main switch lever メインSWレバー	1	27260-A343		1C2
A344	Main switch contact piece メインSWブラシ	1	27260-A344		1C2
A351	Select switch セレクトレバー	1	27261-A351		1C1
A352	Release button リリース鈕	1	27261-A352		1C1
A354	Select switch contact piece セレクトレバー接片	1	27260-A354		1D1
A355	Select switch click spring セレクトレバーバネ	1	27260-A355		1C1
A356	Release button spring リリース鈕バネ	1	27260-A356		1C1
A358	Select lever reinforced plate セレクトレバー補強板	1	27260-A358		1D1
A359	Select switch retainer screw セレクトレバー止めネジ	2	27130-A59		1D1
0-A362	Arm assy. (A362, A361) アーム [組]	2	27250-0-A362		1B3

Parts No.	Description	Q	Interchangeability	NM No.	A
A363	Arm retainer screw アーム段ビス	2	27250-A363		1B2
0-A365	Flash hook lever assy. (A365, A366) F (フラッシュ) 係止レバー [組]	1	27260-0-A365		1C3
A367	Flash hook lever spring F 係止バネ	1	27250-A367		1D3
A368	Flash hook cover plate F 係止蓋	1	27260-A368		1D3
A370	Lead wire holder リード線押さえ	1	27260-A370		1D2
A401	Bottom cover 下飾り	1	27250-A401		1F4
A403-0000A -0000S	Country seal (PHILLIPPINES) " (JAPAN) 国名シール	1	27135-A119-0100A 27135-A119-0100S		1G4
A404	Serial number plate ナンバープレート	1	27250-A404		1G4
0-A412	Battery cover assy. (A412, A413, A414, A415 x2, A416) 電池蓋 [組]	1	27250-0-A412		1F4
B3	Mirror reduction gear A (Gray) M減速ギヤA	1	27230-B3		2E2
B4	Mirror reduction gear B (Green) M減速ギヤB	1	27230-B4		2E3
B5	Mirror reduction gear C (Gray) M減速ギヤC	1	27230-B5		2E3
B6	Mirror idle gear (Black) Mアイドルギヤ	1	26900-B6		2D3
B7	Shutter charge cam (Gray) チャージカム	1	27230-B7		2E2
0-B8	Mirror drive cam assy. (Green) (B8, B15) ミラー駆動カム [組]	1	27230-0-B8		2D3
B9	Diaphragm set lever (Gray) 絞りセットレバー	1	27230-B9		2E3
B10	Shutter charge lever シャッターチャージレバー	1	27230-B10		2D3
B11	Mirror drive lever ミラー駆動レバー	1	27230-B11		2D3

Parts No.	Description	Q	Interchangeability	NM No.	A
B17	Diaphragm set lever spring 絞り付勢バネ	1	26900-B17		2E3
B18	Lever restitution spring レバー復元バネ	1	27230-B18		2E3
B19	Mirror drive spring ミラー駆動バネ	1	27230-B19		2D3
B20	1st mirror restitution spring 第1ミラー復元バネ	1	27230-B20		2D3
B41	Light seal plate, bottom 遮光板下	1			2F5
0-B52	Mirror seat assy. (B52, B55, B69, B70, L1, L6) ミラーシート [組]	1	27230-0-B52		2C5
B57	2nd mirror actuating lever shaft 揺動レバー軸	1	27230-B57		2E5
B58	Mirror seat receptacle ミラーシート受け	2	26900-B58		2F5
B59	Seat receptacle retainer plate 押さえバネ	1	27230-B59		2F5
B60	Plate retainer スナップ	1	27230-B60		2F5
B62	2nd mirror actuating spring 第2ミラー駆動バネ	1	27230-B62		2F4
B63	2nd mirror actuating lever 揺動レバー	1	27230-B63		2E5
B65	Mirror shock absorber ミラー上昇ショック止め	1	26900-B65		2E3
B66	Mirror hinge shaft ミラーシートヒンジ	1	27230-B66		2D5
B67	Mirror motor retainer screw ミラーモーター止めネジ	2	27230-B67		2E2
C1	Bottom mech. plate 巻き上げ親板	1	27250-C1		3F3
C3	Reduction gear A 減速ギヤA	1	27250-C3		3F3
C4	Reduction gear B 減速ギヤB	1	27250-C4		3G2
C5	Reduction gear C 減速ギヤC	1	27250-C5		3G3

Parts No.	Description	Q	Interchangeability	NM No.	A
C6	Sun gear 太陽ギヤ	1	27250-C6		3G3
C7	Planet gear arm 遊星ギヤアーム	1	27250-C7		3G3
C8	Friction spring 遊星フリクションバネ	1	27250-C8		3G3
C9	Planet gear 遊星バネ	1	27250-C9		3G3
C10	Rewind reduction gear 巻き戻し減速ギヤ	1	27250-C10		3G3
C11	Spool スプール	1	27250-C11		3F3
C12	Top mech. plate 上部親板	1	27250-C12		3D2
C13	Sprocket スプロケット	1	27250-C13		3E4
C14	Sprocket receptacle plate スプロケット受け	1	27250-C14		3F3
C15	Sprocket gear スプロケットギヤ	1	27250-C15		3F3
0-C16	Wind pulse switch gear assy. (C16, C17) 検知ギヤ [組]	1	27250-0-C16		3F3
C18	Wind pulse switch P.C. board 検知基板	1	27250-C18		3F3
C19	Retainer ring 止め輪	1	26300-A358		3G3
C20	Retainer screw 止めビス	2	27030-C112		3G3
0-D1	Rewind bottom mech. plate assy. (D1, D2 x3, D3 x2, D4, D5x 7, D6, D10) 巻き戻しブロック [組]	1			3F5
D14	Bottom mech. plate retainer screw 親板止め段ビス	1	27250-D14		3F4
D18	Rewind fork gear フォークギヤ	1	27250-D18		3G4
D19	Rewind fork フォーク	1	27250-D19		3F4
D20	Rewind fork spring フォークバネ	1	27250-D20		3F4

Parts No.	Description	Q	Interchangeability	NM No.	A
0-E000	Shutter block シャッターブロック [組]	1	27234-0-E000		3F2
G100	Diaphragm control block 絞り制御ブロック [組]	1			2D2
I200	Pop-up switch ポップアップSW	1	27260-I200		1C2
0-I331	Focus mode SW assy. (I331, I332) 切換SW [組]	1	27250-0-I331		2F3
I400	Release socket block (I401, I402 x3) 外部リリース端子 [組]	1	27250-I400		2C2
I403	Multi function switch エブロンSW	1	27250-I403		2C2
0-J201	TTL flash photo sensor assy. (J201, J203) ASL受光素子 [組]	1			2G3
L2	Fresnel lens ピント板	1	27234-L2		2E1
L4	Eyepiece front lens ルーペ前玉	1	26900-L4		2B5
0-L101	Penta mirror assy. (L101, L102, M6, M8 x2) ペンタミラー [組]	1	27260-0-L101		2C4
M2	Display prism 表示プリズム	1	27260-M2		2D4
M4	Fresnel lens retainer plate ピント板押さえ板	1	27230-M4		2E1
M5	Retainer plate for photo sensor 素子押さえ板	1			2D4
M7	Condenser lens 測光レンズ	1			2E4
M9	Penta mirror cover ペンタミラー保護板	1	27260-M9		2C4
M11	Dust prevention seal 保護板スキマ塞ぎ	1	27260-M11		2C5
M14	Light seal tape B 遮光テープB	1	27300-A88		2D4
M15	Display prism light seal plate 表示プリズム遮光板	1	27250-M15		2D4

Parts No.	Description	Q	Interchangeability	NM No.	A
M21	Fresnel lens retainer plate holder ビント板押さえ板ホルダー	1	27250-M21		2E4
M22-00A	Focus adjusting washer A (t=0.15)	1	27230-M22-00A		2D1
-00B	" B (t=0.2)		-00B		"
-00C	" C (t=0.25)		-00C		"
-00D	" D (t=0.3)		-00D		"
-00E	" E (t=0.35)		-00E		"
-00F	" F (t=0.40)		-00F		"
-00G	" G (t=0.45)		-00G		"
-00H	" H (t=0.1)		-00H		"
	調整座金 a ~ h				
M41	Finder mask 視野枠	1			2D3
O-M101	AF module (M101, M105 ~ M111, M113, M114, M116, M117, T500) AFモジュール [組]	1			2G4
M103	Adjusting screw for AF module 調整ビス	3	27230-M103		2G4
M104	Spring for AF module コイルバネ	3	25900-M104		2F4
M301	Eyepiece frame ルーペ枠	1	27260-M301		2B5
M302	Eyepiece lens retainer plate ルーペ押さえ板	1	26900-M302		2B5
N300	Piezo-electric buzzer 圧電ブザー	1	26900-N300		3G4
θ201	LCD 外部LCDパネル	1	27260-θ201		2B1
θ202	LCD frame LCD枠	1	27260-θ202		2B1
θ203	LCD retainer LCD押さえ	1	27260-θ203		2B1
θ204	LCD connector 導電ゴム	1	27260-θ204		2B1
θ205	Release SW base plate リリースSWベース台	1	27260-θ205		2D1
Q1	Flash cover F (フラッシュ) カバー	1	27261-Q1		1A2
Q2	Flash frame F ケース	1	27261-Q2		1B3

Parts No.	Description	Q	Interchangeability	NM No.	A
Q4	Flash button F 釦	1	27260-Q4		1A4
Q5	Flash button spring F 釦バネ	1	27260-Q5		1A3
Q6	Retainer ring 止め輪	1	27030-A358		1A3
Q7	Flash frame shaft, left F ケース軸P	1	27250-Q7		1C3
Q8	Flash frame shaft, right F ケース軸S	1	27250-Q8		1C3
Q9	Flash pop-up spring ポップアップバネP	1	27250-Q9		1C3
Q10	Flash frame retainer screw F ケース止めビス	2	27260-Q10		1B3
Q20	Diffuser F 窓	1	27250-Q20		1B2
Q100	Flash assy. フラッシュ発光部 [組]	1	27250-Q100		1A2
0-Q201	Flash P.C. board assy. (Q201, Q215~Q264) ストロボ基板ブロック	1			3E1
Q211	Main capacitor 1 (120 μ F/330WV) メインコンデンサ1	1	27250-Q211		3E1
Q212	Main capacitor 2 (80 μ F/330WV) メインコンデンサ2	1	27250-Q212		3E2
Q271	Connector pin コネクタピン	4	27250-Q271		3E2
R101	DX contact cover DX 接片カバー	1	27250-R101		3C3
R110	DX contact piece assy. (R111, R112) DX 接片 [組]	1	27250-R110		3D4
0-S200	Film transport motor assy. (S200, S201) 巻き上げモーター [組]	1	27250-0-S200		3D2
0-S250	Mirror motor assy. (S250, S251) ミラーモーター [組]	1	27250-0-S250		2D2
S300	AF motor block A F モーターブロック [組]	1			2E5

Parts No.	Description	Q	Interchangeability	NM No.	A
T51	Accessory shoe flexible P.C. board シューフレキ	1	27250-T51		1D3
T61	Data flexible P.C. board データフレキ	1	27250-T61		3B5
T64	Back cover key SW P.C. board 鍵ヘラフレキ	1	27250-T64		3C4
T71	Connector P.C. board G100フレキ	1			2D1
T81	Shutter block flexible P.C. board シャッターフレキ	1	27250-T81		3F1
0-T100	Main P.C. board assy. メイン回路ブロック [組]	1			2C3
T115	Shutter release SW レリーズSW	1	27060-T117		2B2
T301	Mount P.C. board マウントフレキ	1	27250-T301		2F3

LIST OF SERVICE PARTS

Product No. 27332

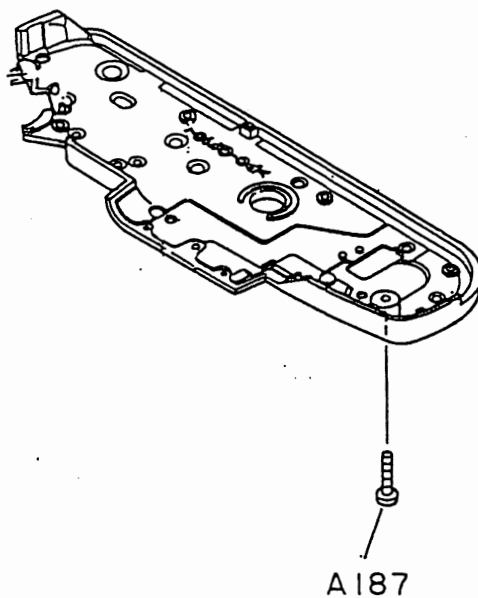
PENTAX MZ-50 QUARTZ DATE (JAPAN MODEL/日本国内モデル)

Note: 1. The parts not listed below are interchangeable with those of
MZ-50 QD (Product No. 27330).

For other parts, refer to the LIST OF SERVICE PARTS of MZ-50 QD (27330).

1. 下記の部品以外は、MZ-50 QD (製品番号27330) と共通です。
他の部品は、MZ-50 QD (27330) のパーツリストを参照して下さい。

Parts No.	Description	Qty.	Interchangeability	NM No.
A187	Cover retainer screw G (Black) 外観ビスG (黒色)	1 (3)	26902-A256	



LIST OF SERVICE PARTS

Product No. 27334

PENTAX ZX-50 (Non-date model)

Note: 1. The parts not listed below are interchangeable with those of
MZ-50 QD (Product No. 27330).

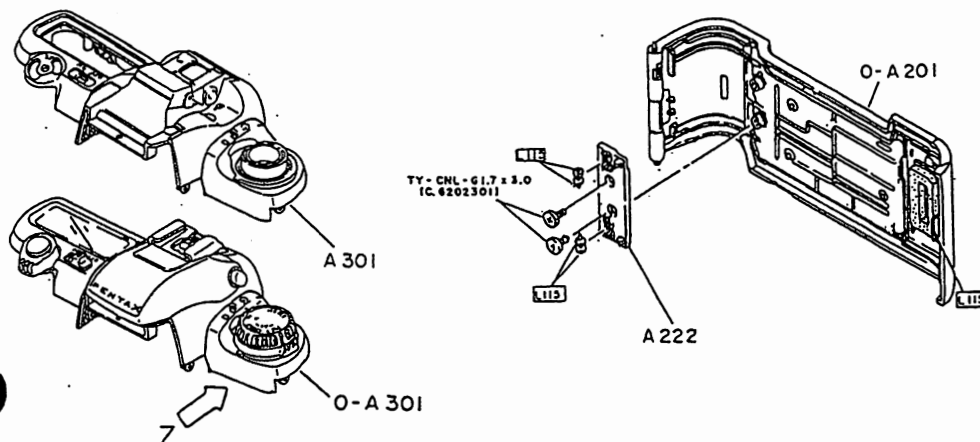
For other parts, refer to the LIST OF SERVICE PARTS of MZ-50 QD (27330).

1. 下記の部品以外は、MZ-50 QD (製品番号27330) と共通です。
他の部品は、MZ-50 QD (27330) のパーツリストを参照して下さい。

Parts No.	Description	Qty.	Interchangeability	NM No.
0-A201	Back cover assy. (A201, A207, A208, A209, A217, A218, A220 W82 (T=0.2) x3) 後蓋 [組]	1	27254-0-A201	
A222	Roller base plate ローラ受	1	27254-A222	
0-A301	Top cover assy. 上飾り [組] (A301, A302, A304 x2, A306, A313, A321~A324, A325 x3, A330, A331, A335~A338, A340, A343, A344, A351, A352, A354~A356, A358, A359 x2, A361 x2, A362 x2, A363 x2, A365~A368, A370, I200, Q1, Q2, Q4, Q5, Q6, Q7, Q8, Q9, Q10 x2, Q20, Q100, T51, T52, T88 x3, B01.5 x2, TW-CNL-D1.7x3.0 x4, TY-CNS1.7x3.0, TY-CNL-D1.7x2.5, TY-CNL-D1.7x3.0 x2, TY-CNL-D1.7x4.5 x2, TY-CNL-D1.7x4.0, TY-CNL-G1.7x3.0 x2, TY-CNM1.7x4.0)	1		
A301	Top cover 上飾り	1		

ZX-50

View Z



1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the problem and the objectives of the research. The second part of the report is a detailed description of the methods used in the study. This includes a description of the experimental design, the data collection procedures, and the statistical methods used to analyze the data. The third part of the report is a discussion of the results of the study. This includes a description of the findings, a comparison of the results with previous research, and a discussion of the implications of the findings. The fourth part of the report is a conclusion and a list of references.

LIST OF SERVICE PARTS

Product No. 27336

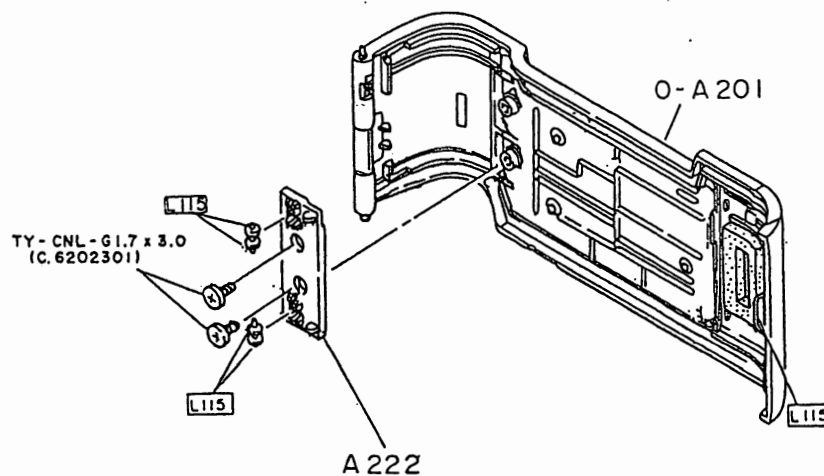
PENTAX MZ-50 (Non-date model)

Note: 1. The parts not listed below are interchangeable with those of
MZ-50 QD (Product No. 27330).

For other parts, refer to the LIST OF SERVICE PARTS of MZ-50 QD (27330).

1. 下記の部品以外は、MZ-50 QD (製品番号27330) と共通です。
他の部品は、MZ-50 QD (27330) のパーツリストを参照して下さい。

Parts No.	Description	Qty.	Interchangeability	NM No.
0-A201	Back cover assy. (A201, A207, A208, A209, A217, A218, A220 W82 (T=0.2) x3) 後蓋 [組]	1	27254-0-A201	
A222	Roller base plate ローラ受	1	27254-A222	



LIST OF SERVICE PARTS

Product No. 27338
PENTAX ZX-50 QUARTZ DATE

Note: 1. The parts not listed below are interchangeable with those of
MZ-50 QD (Product No. 27330).

For other parts, refer to the LIST OF SERVICE PARTS of MZ-50 QD (27330).

1. 下記の部品以外は、MZ-50 QD (製品番号27330) と共通です。
他の部品は、MZ-50 QD (27330) のパーツリストを参照して下さい。

Parts No.	Description	Qty.	Interchangeability	NM No.
0-A301	Top cover assy. 上飾り [組] (A301, A302, A304 x2, A306, A313, A321~A324, A325 x3, A330, A331, A335~A338, A340, A343, A344, A351, A352, A354~A356, A358, A359 x2, A361 x2, A362 x2, A363 x2, A365~A368, A370, I200, Q1, Q2, Q4, Q5, Q6, Q7, Q8, Q9, Q10 x2, Q20, Q100, T51, T52, T88 x3, B01.5 x2, TW-CNL-D1.7x3.0 x4, TY-CNS1.7x3.0, TY-CNL-D1.7x2.5, TY-CNL-D1.7x3.0 x2, TY-CNL-D1.7x4.5 x2, TY-CNL-D1.7x4.0, TY-CNL-G1.7x3.0 x2, TY-CNM1.7x4.0)	1	27334-0-A301	
A301	Top cover 上飾り	1	27334-A301	

