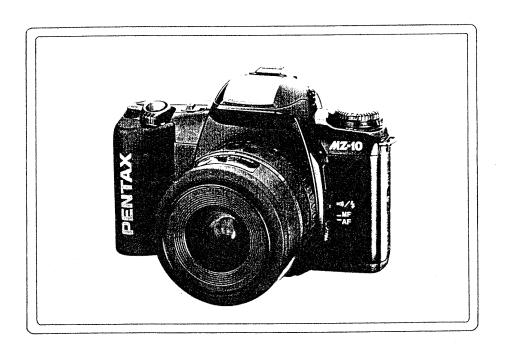
PENTAX°

Service Manual

ENGLISH

72-10 QUARTZ DATE



PRODUCT No. 27260 MZ-1 O QUARTZ DATE

PRODUCT No. 27264 Z X - 1 O

PRODUCT No. 27266 M Z - 1 O

PRODUCT No. 27268 Z X - 1 O QUARTZ DATE

REFERING MANUAL

MICLUSED

LOCATION QUANTITY DELIVERY#

NOLOC

1 80663840 000030

88500.|000 CAMERA SERVICE MANUAL

(C) Asahi Optical Co., Ltd. Service Engineering Section.

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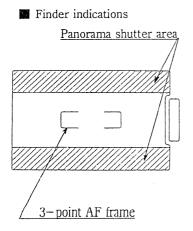
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[SPECIFICATIONS]

Type	-TTL autofocus, auto-exposure 35mm SLR with built-in TTL auto flash (RTF)
Format	-24x36mm (approx, 13x36 in panorama format)
Usable Film	-35mm perforated cartridge film. DX-coded film with ISO 25-5000; ISO 6-6400 when manually set
Exposure Modes	-Smart Picture Mode, Picture Mode (Green Operation Mode, Portrait Program Mode, Landscape Program Mode, Close-up Program Mode, Action Program Mode), Shutter-Priority AE Mode, Aperture-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.
	-Pentax K _{M2} bayonet mount (K-mount with AF coupler, lens information contacts and power contacts)
	-Pentax Kazz-, Kaz-, Kaz-, and K-mount lenses are usable. Autofocus is possible using AF Adapter with Ka-mount lenses.
Autofocus System —	-TTL phase-matching multi(3-point) autofocus system, AF operational brightness range: EV-1 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]
	-3-Speed Intelligent Power Zoom lens with built-in motor with FA zoom lens
	-Pentamirror finder, Natural-Bright-Matte focusing screen, Field of view:92%, Magnification:0.77X(with 50mm lens at ©), Diopter: -1 diopter, Panorama format frame
	-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. [❷] exposure compensation indication, Green Operation Mode [❷], Portrait Program Mode [❷], Landscape Program Mode [❷], Close-up Program Mode [❷], Action Program Mode [❸]
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, [4] = Built-in flash ready indication, [4] = blinking slowly flash recommended warning, [4] = blinks rapidly Inappropriate lens warning, [6] = Red-eye reduction flash mode, [1] = Automatic flash function, ISO indication, [9] = Film status information, [9] = Battery exhaustion warning, Exposure counter, [1] = PCV signal indication, [2] = Exposure compensation, 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
	-lostant-return mirror with AF secondary mirror
Film Wind & Rewind -	Film advances automatically to 1st frame after back cover is closed, Film information window is provided —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
Evangura Compansatio	-TTL multi(6)-segment metering, Metering range from EV0 to EV21 at ISO100 with 50mm f ∕ 1.4 lens in: ± 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 flash (ISO range = 25 - 400), Automatic flash function, Red-eya reduction flash function
	-Hot shoe with X-contact with couples with Pentax dedicated auto flashes, ISO range = 25-800 -Two 3V lithium batteries (CR2 or equivalent)
Power Source Battery Exhaustion	Battery exhaustion symbol [] is lit (blinking when the shutter is locked; no indication on the right-hand
Warning.	edge of the viewfinder.) -135.0mm(W)x90.5mm(H)x62.5mm(D) (5.3"x3.6"x2.5") 350g(12.3 oz) body only without batteries
Date Model	
	-Crystal quartz controlled LCD with digital clock, auto calendar up to 2019. Possible to print both standard and panorama format picture. 7-segment, 6-digit liquid crystal digital display
Imprinting mode ————————————————————————————————————	-year/month/day, day/month/year, month/day/year, day/hour/minute, and "" (blank) -3V lithium battery (CR 2025 or equivalent)
Number of prints	-Approx. 5000 -135,00mm(W)x90.5mm(H)x62.5mm(D) (5.3°x3.6°x25°)365g(12.9oz)body only with out batteriesHot Shoe Cover Fc, Release Socket Cap F, Camera Strap F4, Eye Cup F4, Finder Cap

[LCD AND FINDER INDICATIONS]





LCD panel indications

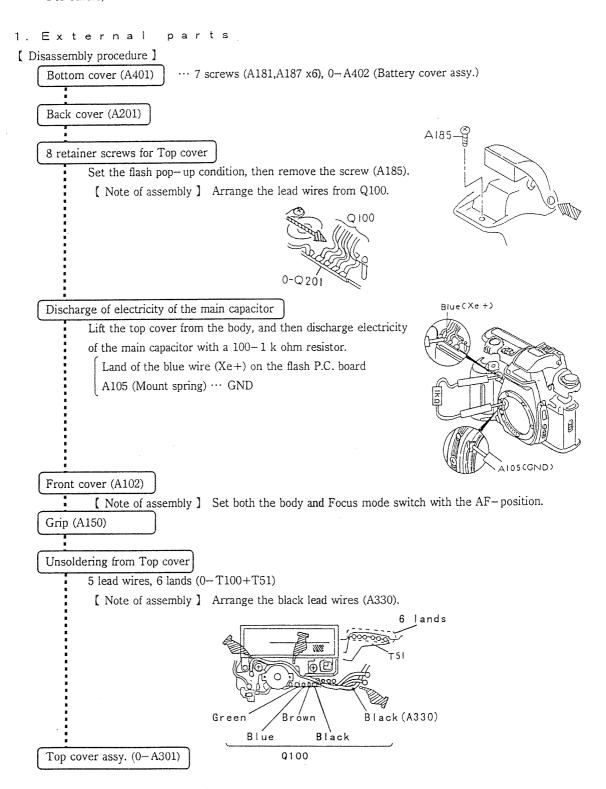


Outline:

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.

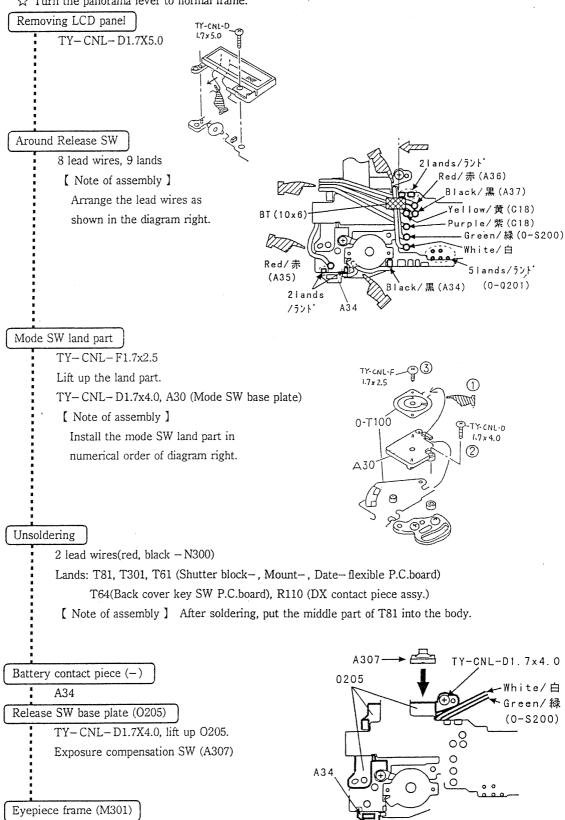
For others, refer to the service manual for MZ-5.



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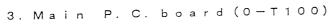
[Disassembly procedure]

☆ Turn the panorama lever to normal frame.



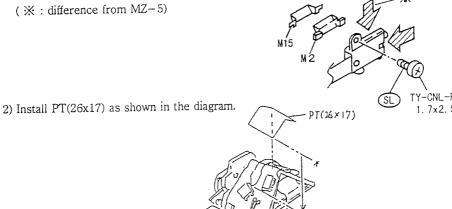
27260

2 screws



[Note of assembly]

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



4. Top cover

[Note of assembly]

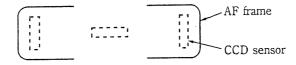
Arrange the lead wires as shown in the diagram below.

Brown
Blue
Green

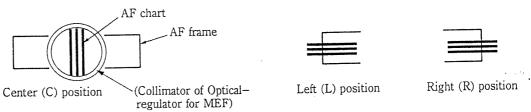
Bond
Bond
Blue
Brown
Blue
Brown
Blue
Brown
Blue
Brown
Brown
Brown
Blue
Brown

5. Adjustment and Confirmation (supplement)

- 5-1. Adjustment and check with computer program
 - 1) Positions of AF frame and CCD sensor (for reference)



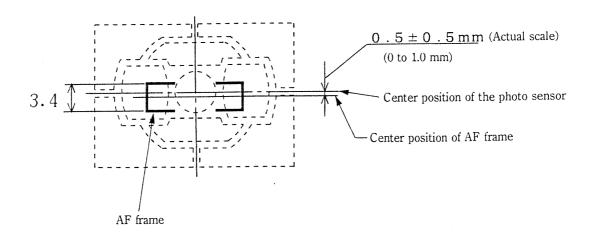
2) Match both the AF frame and AF chart as shown in diagram below.



5-2. Mechanical back

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

5/6



[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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