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PENTAX SUPER PROGRAM



Welcome to the World of Pentax Multi-mode Photography

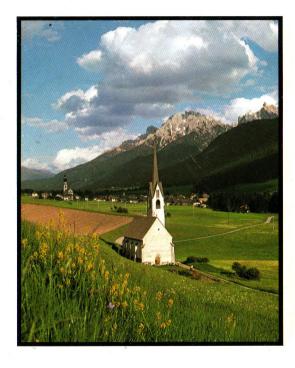
Pentax Super Program is an ultra-sophisticated 35mm SLR. Incorporating the latest electronics technology, it invites you to explore the possibilities of six different exposure modes. As the situation demands you can use Programmed AE (Automatic Exposure), Aperture-priority AE, Shutter-priority AE, Metered Manual, TTL Automatic Flash or Programmed Auto Flash. In each mode, all the exposure information you need is digitally displayed in the viewfinder by means of an LCD or Liquid Crystal Display.

You can enjoy the full versatility of the Super Program with a wide range of Pentax accessories including dedicated TTL automatic flash units, a motor drive that shoots up to approx. 3.5 frames per second, a digital data back, etc.

Since the Super Program has a great many special features and functions, take the time to read this manual carefully. It will help you take full advantage of an extraordinary camera.



- Manual shutter speed select buttons
- Illuminating window
- O Hotshoe
- Exposure compensation index mark
- Exposure compensation scale
- Pilm rewind knob/Back cover release knob
- ISO film speed scale
- Film rewind crank
- (1) Film speed dial lock button
- Film speed dial/Exposure compensation dial
- Grip Super A
- Self-timer lever
- Lens release lever
- Preview lever
- 4 Lens information contacts
- Lens alignment index
- 3 Instant return mirror
- Lighting button for viewfinder LCDs
- X-synch terminal
- O Distance scale
- Lens alignment node
- 4 Aperture scale
- "A" index on aperture scale
- Focusing ring
- 1 Depth-of-field scale
- Aperture/Distance index
- 4 Aperture ring
- Aperture auto lock button



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THE SUPER PROGRAM IN 9 EASY STEPS

Follow the 9 steps below, and in a very short time you'll be able to take pictures with the Super Program in its Programmed AE mode. For more details about each step, consult the accompanying page numbers.

* Remove the cap from the viewfinder eyepiece.

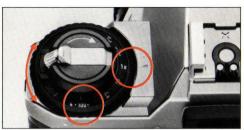


1. Open the battery compartment with a coin and insert batteries. (p. 6)

2. Open the camera back, put in a roll of film, close the back and advance the film to the first frame. (p. 16)







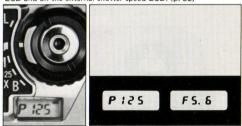
3. Set the ISO film speed to the appropriate number. (p. 15) Set the exposure compensation dial to 1x. (p. 46)

5. Set the shutter dial to Auto. With both lens and shutter on Auto, the camera is now in the Programmed AE mode. (p. 32)





- 4. Rotate the aperture ring on your "A" series lens to the Auto position (indexed in green), while depressing the aperture auto lock button. (p. 28)
- 6. Gently press the shutter release button. You will see both shutter speed and aperture setting indicated on the viewfinder LCD and on the external shutter speed LCD. (p. 32)





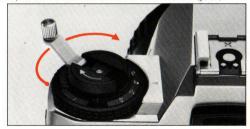
7. Focus the lens by rotating the focusing ring. (p. 21)



8. Make sure that the LCD shows a shutter speed faster than 1/60 second. With slower speeds, camera shake may cause blurred pictures. If the speed is 1/60 or faster, release the shutter.

9. After taking the last picture on the roll, push the film rewind button, rewind the film and remove it from the camera. (p. 23)





OPERATING INSTRUCTIONS

Please refer to pages 32 \sim 43 for detailed information on the Super Program six exposure modes.

- Programmed AE mode
- Aperture-priority AE mode
- Shutter-priority AE mode
- Metered Manual mode
- TTL Auto Flash mode
- Programmed Auto Flash mode

INSERTING BATTERIES



Your Super Program doesn't operate without batteries. Use two 1.5V silver or alkaline batteries, or a 3V lithium battery. Before inserting batteries in the battery compartment, wipe them with a clean dry cloth.

- Open the battery compartment cover with a coin or similar object.
- Place the two batteries in the compartment with '+' marks downward, and close the cover.



M Good

Battery check

To confirm battery status, set the shutter dial to AUTO or M and slightly depress the shutter release button to activate the metering system. If the LCDs on the camera top and in the viewfinder indicate shutter speed information, the batteries are properly inserted and sufficient in voltage for normal camera functioning.

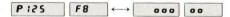
Note: The shutter speed LCD will indicate "1000" until the exposure counter registers "0". This fast speed saves time when advancing film to the first frame. Starting with the first frame on the counter, the LCD provides proper shutter speed and aperture value according to the designated exposure mode.

Automatic power cut-off

As an energy-saving measure, a timer switch is integrated into the exposure meter circuit. It automatically shuts off power approximately 30 sec. after you take your finger off the shutter release button.

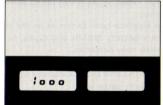
Low battery warning

When batteries become weak, the display windows both inside and outside the camera warn you by alternately displaying exposure information and a row of 000 's.



This alternate LCD indication tells you that both batteries should be replaced promptly to restore the camera to normal functioning.





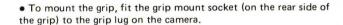
Using batteries correctly

- Incorrect usage of batteries causes such hazards as leakage, heating or explosions. Polarity markings should be carefully checked while inserting batteries. If either battery is erroneously inserted, unexpected mishap may occur.
- The battery discharges small amounts of energy even when not in use. Therefore, the batteries supplied with your camera may be slightly below full capacity, as it has taken some time to reach you.
- Replace both batteries at the same time. Do not mix battery brands and types, or old batteries with new batteries.
- Battery life is approximately six months for alkaline and approximately one year for silver or lithium batteries.
- When not using the camera for long periods of time, you should remove batteries from the camera. Old batteries are apt to leak and damage the battery compartment. Always keep batteries out of the reach of children.

- Never break, recharge, or throw used batteries into fire as a precaution against explosions.
- Batteries should be kept warm in cold climates to prevent lowering of performance.
- Keep spare batteries on hand for convenience in photographing outdoors or while traveling, etc.
- When keeping the camera in a bag or case, lock the shutter release button to avoid the unnecessary consumption of battery power that may result from accidentally releasing the shutter.

GRIP SUPER A

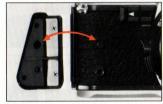
• To remove the grip, loosen the grip mount screw fully, and keeping the camera faced downward, slide the grip up until it comes off.



• Align the grip mount screw with the grip mount receptacle on the camera, and keeping the grip pushed down as indicated by the arrow, tighten the grip mount screw with a coin.

Note: The grip should be removed from the camera body when using the Motor Drive A or the Winder ME $\rm II$.



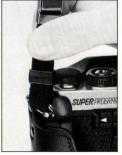




STRAP AND CASE









- First strip the clasp and belt ring from either end of the strap.
- Let the strap end go through the neck strap ring and then the belt ring, and further through neck strap ring of the camera. The strap is then folded back.
- Let the strap end run through the belt ring and then clasp as illustrated. Now the end is tightly caught by the clasp. The strap end may be passed through the inside or outside of the clasp.

- Insert the camera body into the back case and put both case hooks around the camera's strap eyelets. The camera body is now held securely in the case.
- The standard soft case comes complete with a front cover.
- To remove the front cover, turn the cover a full 180° while pulling it slightly towards you and the fastener of the cover unlocks.

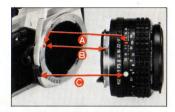
LENS MOUNTING

To mount or interchange Pentax K, KA and Kf mount lenses follow the steps below. (For screw mount lenses, see p. 57).

- Remove the body mount cap and the rear lens cap. If the finder cap is still on the eyepiece, remove it. (For the finder cap, see p. 53).
- Align the red dot on the camera body with the red dot on the lens (See ②,③.). Seat the lens in the body mount and turn it clockwise until the lens locks with a click. When mounting the lens in dim light, method (⑥) is recommended. This method allows lens mounting by touch. Align the raised node on lens barrel with the lens release by touch. Then turn and lock as above.
- To remove the lens cap, press in on the notches at both sides.
- To remove the lens, press the lens release lever toward the camera body while turning the lens counter-clockwise.
- After removing a lens from the camera body, replace the front and rear lens caps to protect the lens from dust and stains.

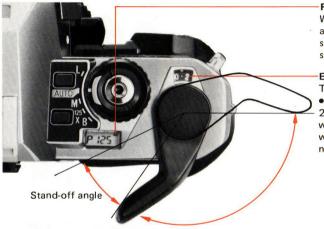


Note: Don't damage or stain the electrical contact points on the mount face. When they become stained, wipe them with a clean, dry cloth.









Film-advance/shutter-cocked indicator When one frame is completely wound and the shutter is cocked for the next shot, the mark appears on the shutter speed LCD.

Exposure counter

The scale is indexed as follows:
• · 0 · 2 · 4 · 34 · 36, with 0,
20, 34, 36 coded in red. The counter, which is interlocked with the film winding mechanism, indicates the number of exposed frames.

Setting the wind lever for rapid shooting

The film wind lever can be set at the stand-off position for faster film advance. Even if you remove your thumb from the lever, it remains at the stand-off angle, ready for the next quick shot. After completing a series of pictures, the lever should be pushed in to the original position.

Film advance stroke

The film wind lever should be thrown as far as it goes.

Note: The wind lever may stop in the middle of a stroke when the film comes to its end. Do not force the lever and rewind the film, leaving the lever as it is.

SELF-TIMER

The self-timer is used when you want to include yourself in the picture with your family, friends, etc. After cocking the film wind lever, draw the self-timer lever in the direction of the arrow, and depress the shutter release button. The timer delays shutter release for about 12 seconds. Self-timer operation is indicated by red light and electronic beeping. 2 seconds before a shutter release, the frequency of flickering and beeping increases. The self-timer can be cancelled even after pressing the shutter, by returning the lever to its original position.

The self-timer cannot be used with the shutter set at "B".
"E" flickers on LCDs both outside the camera and inside the viewfinder to warn you of an erroneous setting. When using the self-timer, cover the viewfinder eyepiece with the accessory finder cap; otherwise, light entering from the rear of the camera may make the shutter speed faster, adversely affecting the exposure.





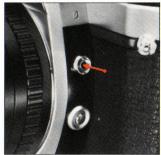


USE OF NON-DEDICATED FLASH UNITS



- In using an ordinary flash unit, adjust the shutter dial index (red line) to 125X. The shutter speed will be indicated as 125, but there will be no LCD indication of f/stop.
- Set the lens aperture according to the camera-to-subject distance (Refer to the instructions accompanying the flash unit).
- When using a synch-cord, connect it to X-synch socket on your Super Program.

Note: Flash units available from other makers with dedicated flash coupling capability, special purpose flash units, etc., will tend to cause malfunctions or damage to the electronic systems of your Super Program.



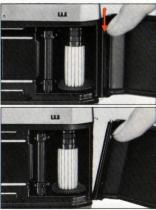
DIOPTER ADJUSTMENT, CHANGING BACK COVER

Correction lenses M are available for the Super Program viewfinder. There are 8 auxiliary M lenses: -5, -4, -3, -2, -1, +1, +2 and +3D. Choose the one that suits your eye, and put it in the eyepiece accessory slots as illustrated. Before buying one, try it for yourself with the lens actually attached to your camera.

Changing the back cover

The back cover must be removed from your Pentax Super Program to use such accessories as the Dial Date ME or Digital Data M data-imprinting devices. Open the back cover, and pull it slight-by while pushing down the back cover release pin to disengage the locking mechanism. Then the cover can be easily removed. When reattaching it, first put the lower back-cover-release lug into position, then match the upper lug with the release pin pushed downward. Release the pin to attach the back to camera body.







INFRARED INDEX MARK

If you intend to take infrared photographs using infrared film and R2 or 02 filters, it is necessary to compensate for the difference between visible light focus and infrared focus. As shown on the left, note the subject-to-camera distance on the lens distance scale as you focus through the viewfinder and turn the focusing ring until that distance setting aligns with the red infrared index mark. The figure shows an example in which the subject-to-camera distance is set at infinity (∞).

As for exposure control required in infrared photography, refer to the instructions contained in the film package.

USING SCREW-MOUNT TAKUMAR LENSES

Conventional screw-mount lenses can be easily attached to the lens mount of your Pentax Super Program by using the optional Mount Adapor K. But there are some limitations.

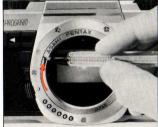
- Put the Mount Adaptor K in the body mount by matching both marks.
- To lock it, rotate the adaptor clockwise (65°) with a pointed object such as a ball-point pen.

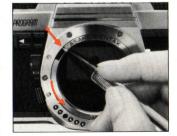
 Now your Super Program can accept any conventional Pentax screw-mount lenses.
- To remove the adaptor, press the spring pin on the adaptor with some pointed aid and rotate it counterclockwise until it stops.

Limitations in using screw-mount lenses on the Super Program

- The distance scale of the lens is usable as it is, up to infinity (∞).
- Automatic diaphragm coupling doesn't function due to the difference in coupling system.
- The exposure is metered with aperture stopped down.
- Programmed AE and Shutter-priority AE modes cannot be used with screw-mount lenses.
- There is not automatic aperture setting even with dedicated flash units.







HOW TO USE VARIOUS ACCESSORIES WITH YOUR SUPER PROGRAM

- When you attach the following accessories to the Super Program, use the stop-down (or working aperture) metering mode or Metered Manual mode: Bellows Unit III Microscope Adaptor K Helicoid Extension Tube K Extension Tube K Set Reverse Adaptor K 49mm/52mm 6 x 7 Lens Mount Adaptor K Telescope Adaptor K
- When you attach the following accessories to the Super Program, use the Aperture-priority AE mode or Metered Manual exposure mode: Auto Bellows A Set and M Set new Auto Extension Tube K Set Auto Extension Tube K 100mm/50mm

 Rear Convertor K T6-2X

Note: The scale and double cable release of the Auto Bellows M Set new cannot be used with the Super Program.

- Use the Refconverter A because with the Refconverter M the viewfinder LCD of the Super Program is not visible.
- When using the Winder ME II with the Super Program, be sure to set the AUTO/125X indicator of the winder at AUTO. If set at 125X, it may cause malfunction.
- Do not use the older model Winder ME: it will not operate properly with the Super Program.
- The Super Program's Programmed AE and Shutter-priority AE modes do not function with a Pentax dedicated flash set at "M" (manual) or "MS" (manual synchronization).
- As you set up for multi-flash photography with dedicated flash units, use your Pentax Super Program in the Aperture-priority AE or the Metered Manual mode.

Q&As ON YOUR PENTAX SUPER PROGRAM

- With the shutter dial set to "AUTO" the viewfinder LCD fails to indicate anything. Did you slightly depress the shutter release button? Are batteries properly inserted in your camera? (See details on page 6)
- What happens if the batteries are completely depleted?

LCDs outside the camera and inside the viewfinder are blank. Even if the shutter is pressed, the shutter cannot be released. Replace the batteries with new ones. (See page 7.)

What is ISO 100?

It shows the sensitivity of the film in use. You cannot obtain proper exposures unless you set the camera to the proper film speed. (See page 15)

• Why are my pictures out of focus?

Always be sure to focus accurately by using the split image and/or microprism on the finder screen. Camera shake often causes blurred pictures. Use shutter-speeds faster than 1/60 sec., and hold your camera tightly while shooting. (See pages 19 and 20)

 Only the "1000" indication appears on the shutter speed LCD in spite of the fact that the exposure mode is properly set.

Repeat film advancing operation until the film counter registers "1". (See page 7)

CAMERA MAINTENANCE

CLEANING:

- Always keep the viewfinder eyepiece, lens and filters as clean as possible. To remove loose dust and dirt, first use the blower and then the brush.
 Do not try to wipe off granular dirt or dust it's an excellent way of scratching the glass.
- Smudges, such as fingerprints, should be carefully wiped away with either lens tissue or a clean, soft cloth. Clean, plain cotton handkerchiefs that have already been washed a few times are particularly good for this.
 Breathing on the lens before wiping is effective; but be sure to wipe away all moisture completely.
 Commercial lens cleaners are also effective.
- Never touch the mirror or the shutter leaves.
 Minor dirt or spots on the mirror will not affect the clarity of your pictures.
- Take care not to drop the camera or knock it against anything solid. Accidents or rough handling can easily damage the internal mechanism, even though externally nothing seems to have been damaged.

KEEP YOUR CAMERA DRY:

- Your camera is not waterproof. There are several places where water can get inside and do a great deal of damage. Take care to protect both body and lens from rain or splashing water. If your camera should get wet, dry it off immediately with a clean, soft cloth.
- If your camera becomes completely soaked, it may malfunction. In this instance, bring it as soon as possible to an authorized Pentax service center.

STORAGE:

 Where to keep your camera while you are not using it is an important point. The best storage place is cool, dry, clean and well-ventilated.
 Because of the possible build up of humidity, it is risky to store your camera in a cabinet or closet. It's also a good idea to keep your camera in its bag or case while you are not using it.

RESISTANCE TO TEMPERATURE EXTREMES AND CHANGES

The temperature range at which your camera will continue to function properly stretches from 50°C to -20°C. However, resistance to cold could be hampered by dirty oil. Therefore, if the camera is to operate at full efficiency in very cold conditions, it must be overhauled and all oil must be replaced. Sudden changes in temperature will often cause moisture to condense inside or outside your camera. This is a possible source of rust, which may be extremely harmful to the mechanism. Furthermore, if the camera is taken from a warm temperature to a sub-freezing one, further damage may result from the formation of icelets.

Thus, sudden temperature changes should be avoided as much as possible. As a guide, a temperature change of 10° C should be allowed to take place gradually over a period of at least 30 minutes. If this is not possible, keeping the camera in its case or bag will help somewhat in minimizing the effects of a rapid temperature change.

Extremely low temperature reduces the efficiency of the battery. Therefore, the camera should be protected against low temperature. Put the batteries into the camera right before shooting. For extremely low temperature, use new batteries.

A few notes on the LCD (Liquid Crystal Display):

In high temperature, approximately 60°C or 140°F or above, the LCD windows may turn black. In low temperature, the response-time of the display may slow down considerably.

These phenomena do not indicate either camera break-down or break-down of the LCDs themselves. They are characteristic of LCDs, and the LCDs will return to normal when the temperature becomes normal.

35mm SLR camera with multi-mode automatic exposure controls, electronically-controlled Type: focal plane shutter, and open-aperture center-weighted Through-The-Lens metering. Six Exposure Control Modes: Programmed AE, Aperture-priority AE, Shutter-priority AE, Metered Manual, TTL Auto Flash, and Programmed Auto Flash mode. Exposure Control Mode Setting: By using combinations of settings on shutter dial and aperture ring of "A" series lenses. Film: 35mm film 24 x 36 mm Format: Lens Mount: Pentax KA Bayonet (A Pentax K bayonet mount with electrical contact). Shutter: Seiko MFC-E3 vertical-run metal focal-plane shutter, automatic exposure and manual settings electronically-controlled speeds from 15 to 1/2000 sec., 1/125 sec., and B. Electromagnetic shutter release with release button lock. Exposure Indication in Viewfinder: Liquid Cristal Display (LCD) Automatic and manual shutter speeds. automatically set lens apertures, exposure factor warning, shutter-speed setting error warning, battery life warning, and Programmed AE indication (P), LCD window illumination. External Indication: Automatic and manual shutter speeds, Programmed AE indication (P) and shutter cocked indicator Flash Synchronization: Hot shoe (X-Synch contact, dedicated flash contacts), X-synch at 1/125 sec. Dedicated Automatic Flash Coupling: Automatic setting of 1/125 sec. synch speed with dedicated automatic flash units. TTL-automatic flash control provides film-plane metering. Slower than 1/125 sec. synch flash photography is possible at Manual mode setting. Self-Timer: Electronically controlled, delay time indication by flashing lamp and electronic buzzer. approx. 12 sec. delay time, possible to cancel at any time; initiate process by pressing shutter release button Silver-coated pentaprism finder with split-image/microprism focusing screen; shows 92% of Viewfinder: the picture area, 0.82X magnification with 50mm lens at infinity; -1.1 Diopter evenience.

Mirror: Back-swing type instant-return mirror.

Film loading: Magic-needle loading.

Film Transport: Single-stroke, rapid wind lever with 135° throw and 30° standoff angle; LCD shutter cocked indicator; film advance and rewind indicator window. Accepts Winder ME II, Motor Drive A.

Exposure Counter: Additive type, automatic resetting. Automatically sets shutter-speed at 1/1000 sec. up to '0' frame on the counter when shutter dial is set at AUTO or M.

Film Rewind: Crank type.

Exposure Metering: Open aperture, Through-The-Lens, center weighted, average area metering system with with GPD cell. Film-plane Metering for dedicated automatic electronic flashes.

Metering Range: EV 1 (f/1.4 1 sec.) — EV 19 (f/16, 1/2000 sec. or f/22, 1/1000 sec.) with 50mm f/1.4 lens and ISO 100 film.

ISO Range: 6 - 3200.

Exposure Compensation Exposure: Compensation dial indexed at 4X, 2X, 1X, 1/2X and 1/4X.

Depth-of-Field Preview: Via depth-of-field preview lever when aperture set manually.

Power Source: Two 1.5V alkaline or silver-oxide batteries, or one 3V lithium battery.

Metering Circuit Main Switch: Switched on by shutter release button and remains on for about 30 sec., shut-off by built-in timer.

Battery Warning: When batteries grow weak, LCD alternately flashes exposure designations and 'ooo' sign. When batteries exhausted, LCDs go blank and shutter locks.

Back Cover: Standard camera back with spring catch, built-in memo holder/grip, fully interchangeable with Dial Data ME and Digital Data M.

Size & Weight: 131mm x 86.5mm x 47.5mm, 490g (body only, without batteries) 131mm x 86.5mm x 84.5mm, 725g (with f/1.4 lens, without batteries)

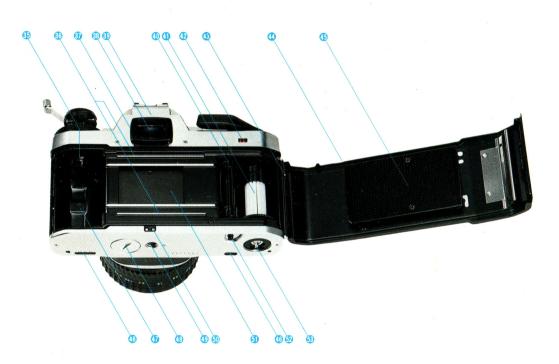
All Pentax cameras purchased through authorized bona fide photographic distribution channels are guaranteed against defects of material or workmanship for a period of twelve months from date of purchase. Service will be rendered and defective parts will be replaced without cost to you within that period, provided the equipment has not been abused, altered, or operated contrary to instruction. Because the tolerances, quality, and design compatibility of lenses other than Pentax lenses are beyond our control, damage caused by use of such lenses will not be covered by this warranty policy. The manufacturer or its authorized representatives shall not be liable for any repair or alterations except those made with its written consent and shall not be liable for damages from delay or loss of use or from other indirect or consequential damages of any kind, whether caused by defective material or workmanship or otherwise; and it is expressly agreed that the liability of the manufacturer or its representatives under all guarantees or warranties, whether expressed or implied, is strictly limited to the replacement of parts as hereinbefore provided.

Procedure During 12-month Warranty Period Any Pentax which proves defective during the 12-month warranty period should be returned to the dealer from whom you purchased the equipment or to the manufacturer. If there is no representative of the manufacturer in your country, send the equipment to the manufacturer. with postage prepaid. In this case, it will take a considerable length of time before the equipment can be returned to you owing to the complicated customs procedures required in Japan in importing and re-exporting photographic equipment. If the equipment is covered by warranty, repairs will be made and parts replaced free of charge, and the equipment will be returned to you upon completion of servicing. If the equipment is not covered by warranty, regular charges of the manufacturer or of its representatives will apply. Shipping charges are to be borne by the owner. If your Pentax was purchased outside of the country where you wish to have serviced during the warranty period. regular handling and servicing fees may be charged by the manufacturer's representatives in that country. Notwithstanding this, your Pentax returned to the manufacturer will be serviced

free of charge according to this procedure and warranty policy. In any case, however, shipping charges and customs clearance fees are to be borne by the sender. To prove the date of your purchase when required, please keep the receipts or bills covering the purchase of your equipment for at least a year. Before sending your equipment for servicing, please make sure that you are sending it to the manufacturer's authorized representatives or their accredited repair shops, unless you are sending it directly to the manufacturer. Always obtain a quotation of the service charge, and only after you accept the quoted service charge, instruct the service station to proceed with the servicing.

This warranty policy does not apply to Pentax products purchased in the U.S.A., U.K., or Canada. The local warranty policies available from Pentax distributors in those countries supersede this warranty policy.

- 5 Film rewind shaft
- 6 Film guide rails
- **39** Eyepiece accessory slots
- Wiewfinder eyepiece
- Wiewfinder frame
- Sprocket
- Film take-up spool
- Film advance/Rewind indicator
- Back cover release pin
- Back cover
- Film pressure plate
- 6 Connector
- Film chamber
- Battery compartment cover
- Tripod socket
- Cordless contact terminal
 - Shutter blades
 - 69 Film rewind button
 - Film transport coupler







Asahi Optical Co., Ltd. C.P.O. 895, Tokyo 100-91, JAPAN

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