

WILSONWERKS ARCHIVES

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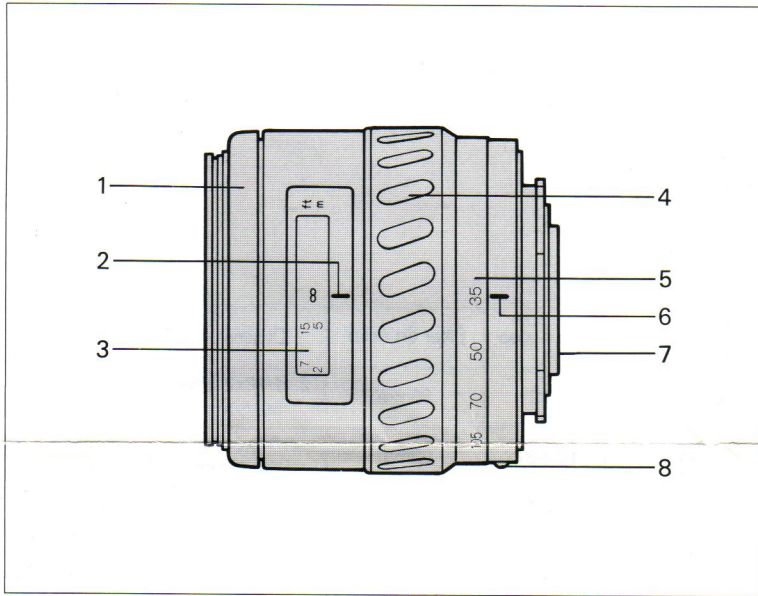
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MAXXUM AF ZOOM LENSES

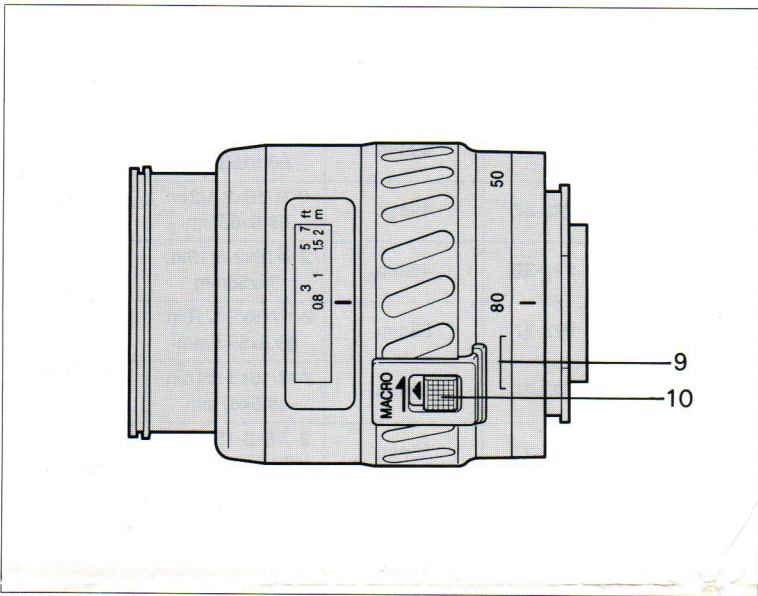
AF ZOOM LENSES



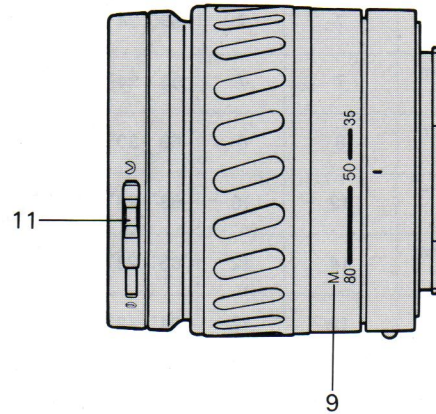
NAMES OF PARTS

• Not all parts are included on each lens

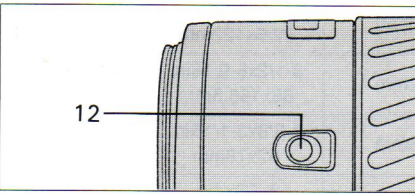
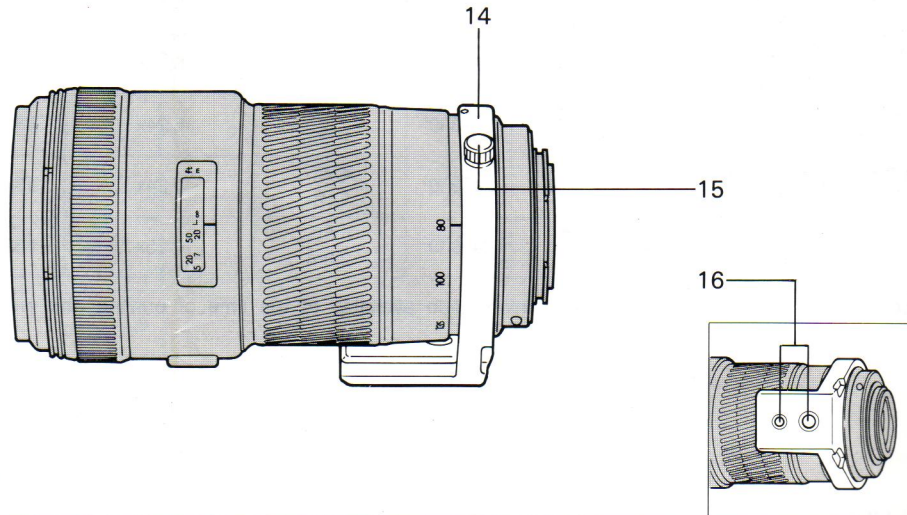
- 1. Focusing ring
- 2. Distance index
- 3. Distance scale
- 4. Zooming ring
- 5. Focal-length scale
- 6. Focal-length index
- 7. Lens contacts
- 8. Mounting index
- 9. Macro indicator
- 10. Macro release
- 11. Lens-cover slide
- 12. Focus-hold button
- 13. Infrared index
- 80-200mm Apo only:
- 14. Tripod-mounting collar
- 15. Tripod-mounting knob
- 16. Tripod sockets



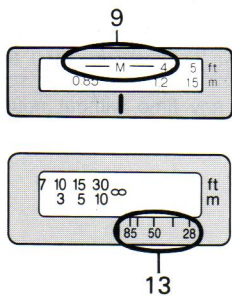
35-80mm f/4-5.6
80-200mm f/4.5-5.6



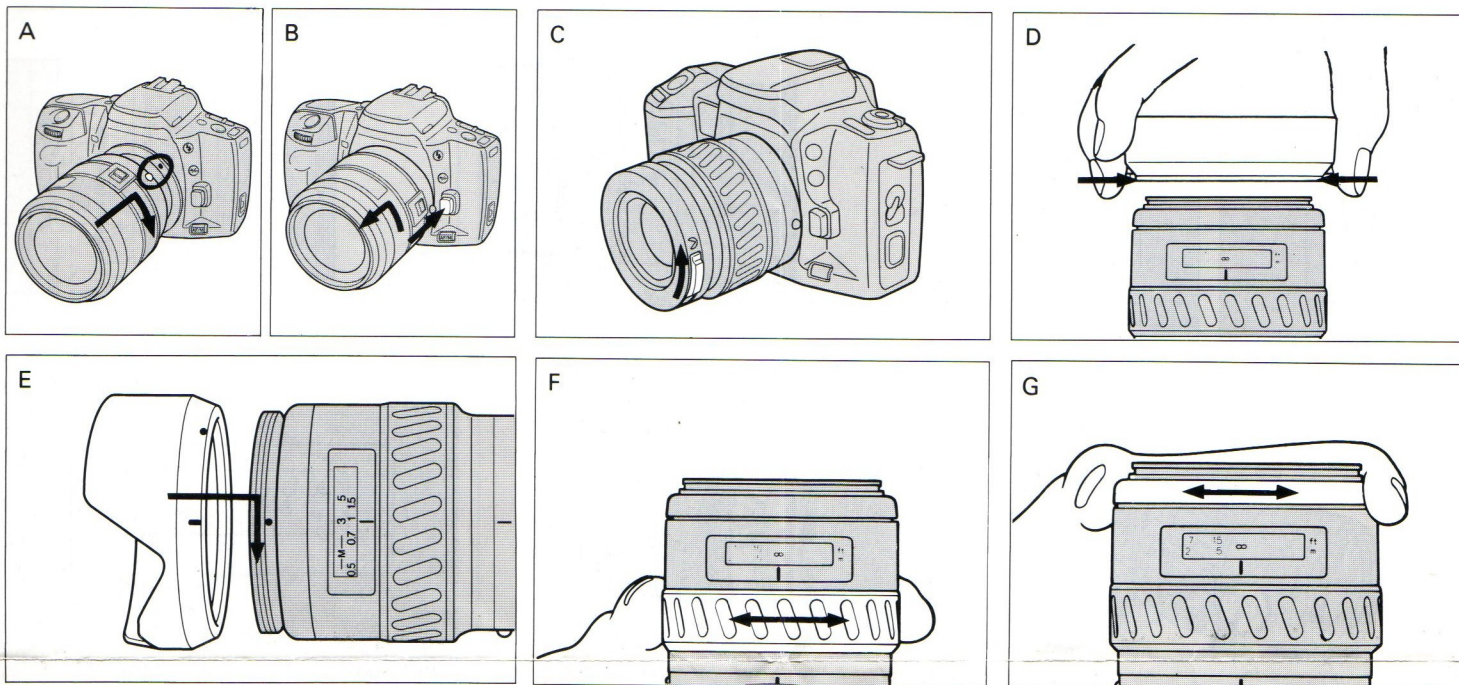
80-200mm f/2.8Apo G



Distance scale



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THIS MANUAL IS FOR USE WITH SEVERAL DIFFERENT LENSES. SOME SECTIONS AND NAMES OF PARTS WILL NOT PERTAIN TO YOUR LENS.

The lens you purchased, like all Minolta lenses, is carefully designed to ensure the highest optical quality possible at all times. To maintain optimum performance throughout the life of the lens, read and follow these instructions.

ATTACHING AND REMOVING LENS (All lenses)

To attach lens:

1. Remove rear lens cap and align mounting index on lens barrel with red index on camera.
2. Insert lens into camera mount and turn lens clockwise until it locks in place (A).

To remove lens:

1. Hold down lens release button on camera and turn lens counterclockwise until it stops (B).
2. Carefully lift lens out of mount.

BUILT-IN LENS COVER

(35-80mm and 80-200mm f/4.5-5.6 only)

To open the lens cover, move the lens-cover slide up (C).

LENS HOOD

We recommend the use of a lens hood to reduce flare and ensure maximum image quality. Some lenses come equipped with a clip-on or bayonet-mount hood.

- Remove the lens hood from your lens before using a camera's built-in flash.

To attach a clip-on lens hood, squeeze side tabs and fit it securely into the grooved ring on the end of the lens barrel (D).

To attach a bayonet-mount lens hood, fit the hood into the bayonet mount on the end of the lens barrel and turn the hood clockwise until it stops. If your lens hood has guide marks, align the red line on the lens hood with the red dot on the lens and turn the hood clockwise until the two red dots meet (E).

To store the lens hood, reverse it, attach it to the lens, and replace the lens cap.

ZOOMING (All lenses)

To zoom lens, turn zooming ring to the desired focal length (F).

FOCUSING (All lenses)

In autofocus mode, the camera focuses the lens automatically. Do not touch the focusing ring while autofocus is operating.

To focus the lens manually:

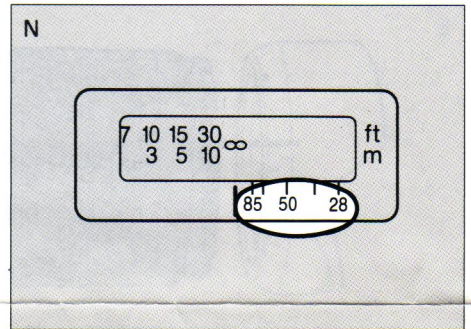
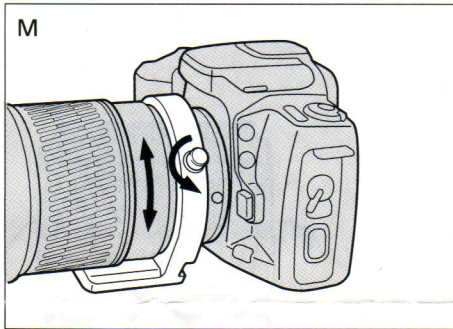
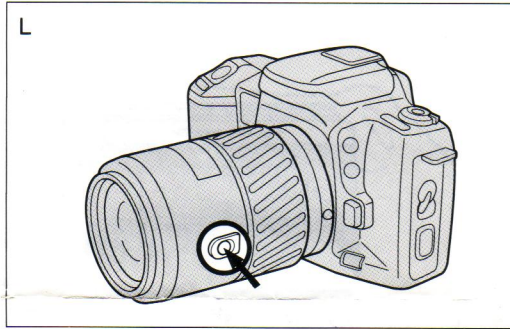
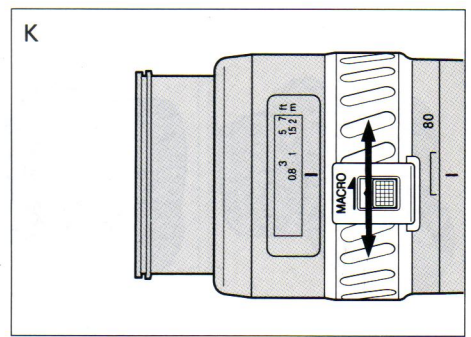
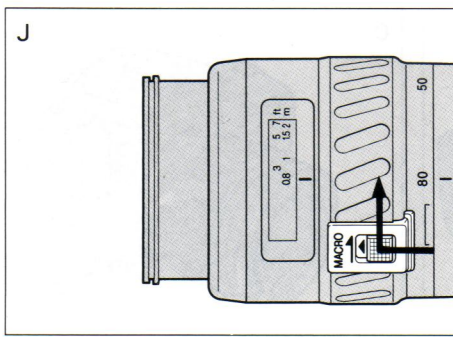
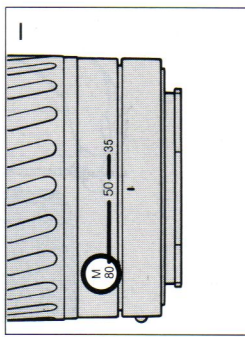
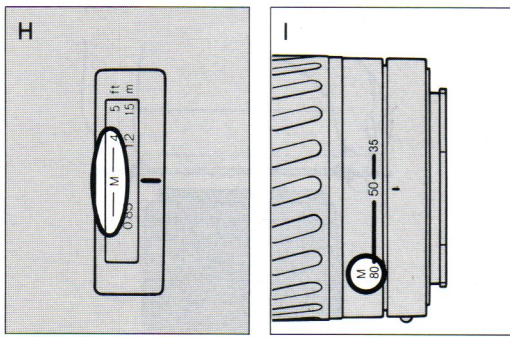
1. Refer to the camera manual and select manual-focus mode.
2. Turn focusing ring until subject appears sharpest (G) or focus indicator lights.

28-70mm, 28-105mm, 35-80mm, 80-200mm Apo, 100-300mm Apo, and 100-400mm Apo only:

- Temperature changes will cause the lens barrel to expand and contract slightly. As a result, the focusing mechanism will turn past the infinity mark at higher temperatures. When focusing manually, always confirm the image sharpness through the viewfinder, especially when the lens is focused near infinity. No extra care is necessary when autofocusing.

APERTURE CONTROL

To manually set the aperture, refer to your camera manual.



MACRO PHOTOGRAPHY

Some lenses focus automatically into the macro range, while others require you to manually select macro mode. If your lens has no macro indicator, it will not focus into the macro range.

- Depth of field decreases as the subject distance decreases. For this reason, use small apertures (large f/numbers) when you take macro photographs.

Note:

The macro feature of these lenses is designed for photographing 3-dimensional subjects such as insects or flowers. To copy documents or artwork, the AF 50mm f/2.8 Macro or 100mm f/2.8 Macro are recommended.

Automatic Macro

Most AF Zoom lenses focus automatically from the near point to infinity.

The macro range is indicated on these lenses by a blue line on the distance scale (H).

- For maximum magnification, set your lens to its longest focal length, or to M on the 35-80mm and 80-200mm f/4.5-5.6 (I).
- When using the 35-80mm or 35-105mm lenses at or near their minimum focusing distance together with a short focal length setting, the edges of the picture may darken slightly. For this reason, use long focal lengths when you take close-up pictures.

Manual Macro

If your lens has a macro release, you must set macro mode manually before taking close-up pictures.

1. Slide the macro release away from the camera and turn the zooming ring in the direction indicated by the blue arrow until the focal-length index is inside the macro range (J).

2. To focus, turn the zooming ring until the image in the viewfinder is sharp and the focus signal lights (K).

- Autofocus does not operate in macro mode.
- To obtain the lens' maximum magnification, set the camera to manual-focus mode and turn the focusing ring to the closest focusing distance.
- To reset the lens to normal operation, slide and hold the macro release and turn the zooming ring back to the zoom range. If the camera is in manual-focus mode, set it to autofocus.

FOCUS-HOLD BUTTON

To lock the autofocus system at the current position, press and hold the focus-hold button (L).

- If your camera can use the Customized Function Card xi or the Customized Function Card, the function of the focus-hold button can be changed using them. Refer to the card manual for details.

TRIPOD MOUNT (80-200mm Apo only)

To ensure maximum sharpness and to reduce stress on the lens mount, attach the lens directly to a tripod. The camera can be rotated to frame vertical or horizontal photos while a tripod is attached to the lens.

1. Loosen tripod-mounting knob by turning it counterclockwise.
 2. Rotate lens barrel to the desired position, and retighten knob (M).
- The white line on the lens barrel aligns with white dots on the tripod-mounting collar to indicate vertical and horizontal framing.

INFRARED INDEX

For proper focus when using infrared film, focus on the subject as usual.

Then set the camera to manual-focus mode and turn the focusing ring until the distance opposite the distance index is aligned with the red infrared index for focal length in use (N). For best results, be sure to attach a filter.

CARE AND STORAGE

- Do not touch lens contacts.
- If the lens becomes dirty, clean it gently with a lens brush. If necessary, moisten a sheet of lens tissue with one drop of lens-cleaning fluid and gently wipe the lens. Never touch the lens surface with your fingers.
- When not in use, keep the lens capped and in its case.
- Store your lens away from heat, humidity, and harmful chemicals or vapors.
- For all service and repairs, contact an authorized Minolta service facility.

● When using AF Zoom 28-70mm f/2.8 with an accessory flash, the lens may cast a shadow across the bottom of the picture. Before using a flash with this lens, consult the list below.

The following are not usable:

- Any built-in flash
- Maxxum/Program Flash D-314i, D-316i, and 1800AF

The following can be used only with the lens hood removed:

- Maxxum/Program Flash 2000xi, 3200i, and 2000i

The following can be used without problems:

- Maxxum/Program Flash 5400HS, 5400xi, 3500xi, 5200i, 4000AF, and 2800AF

SPECIFICATIONS

Lens	Elements	Groups	Angle of view	Min. focus (Macro)	Max. Magnification (Macro)	Min. f-stop	Filter diameter	Dimensions	Weight
AF Zoom 24-50mm f/4	7	7	84° - 47°	1.1ft. 0.35m	0.18x	f/22	55mm	2-11/16x2-3/8in. 69x60mm	10-1/16oz. 285g
AF Zoom 24-85mm f/3.5-4.5	14	12	84° - 29°	1.6ft. 0.5m	0.17x	f/22-27	62mm	2-7/8x2-7/8in. 73x73mm	14-5/8oz. 415g
AF Zoom 28-70mm f/2.8G	16	11	75° - 34°	2.8ft. 0.85m	0.09x	f/22	72mm	3-1/4x4-1/2in. 83x114.5mm	30oz. 850g
AF Zoom 28-80mm f/4-5.6	7	7	75° - 30°	2.6ft.(1.2ft.) 0.8m(0.38m)	0.25x	f/22-32	55mm	2-11/16x2-11/16in. 68x67.5mm	8-13/16oz. 250g
AF Zoom 28-85mm f/3.5-4.5	13	10	75° - 29°	2.6ft.(0.82ft.) 0.8m(0.25m)	0.12x(0.25x)	f/22-27	55mm	2-11/16x3-3/8in. 68.5x85.5mm	17-5/16oz. 490g
AF Zoom 28-105mm f/3.5-4.5	13	10	75° - 23°	1.6ft. 0.5m	0.21x	f/22-27	62mm	2-7/8x3-1/8in. 73x80mm	17-1/8oz. 485g
AF Zoom 35-70mm f/3.5-4.5	7	7	63° - 34°	1.6ft. 0.5m	0.15x	f/22-27	49mm	2-11/16x2-1/2in. 68.5x63mm	7-3/4oz. 220g
AF Zoom 35-70mm f/3.5-4.5	7	7	63° - 34°	1.6ft. 0.5m	0.15x	f/22-27	49mm	2-11/16x2-1/2in. 68.5x63mm	7-7/16oz. 210g
AF Zoom 35-80mm f/4-5.6	8	8	63° - 30°	1.6ft. 0.5m	0.18x	f/22-32	46mm	2-9/16x2-5/16in. 65x58mm	6-7/8oz. 195g
AF Zoom 35-105mm f/3.5-4.5 (New)	12	10	63° - 23°	2.8ft. 0.85m	0.15x	f/22-27	55mm	2-11/16x2-5/16in. 68.5x59.5mm	10-1/4oz. 290g
AF Zoom 35-105mm f/3.5-4.5	14	12	63° - 23°	4.9ft.(1.3ft.) 1.5m(0.41m)	0.08x(0.25x)	f/22-27	55mm	2-11/16x3-9/16in. 68.5x87mm	17-1/8oz. 485g
AF Zoom 70-210mm f/3.5-4.5	12	12	34° - 12°	3.6ft. 1.1m	0.26x	f/22-27	55mm	2-7/8x3-15/16in. 72.5x100mm	14-13/16oz. 420g
AF Zoom 70-210mm f/4	12	9	34° - 12°	3.6ft. 1.1m	0.26x	f/32	55mm	2-7/8x6in. 72.5x152mm	24-1/2oz. 695g
AF Zoom 70-210mm f/4.5-5.6	10	10	34° - 12°	3.6ft. 1.1m	0.26x	f/22-27	49mm	2-11/16x3-11/16in. 69x93mm	12-3/8oz. 350g
AF Zoom 75-300mm f/4.5-5.6	13	10	32° 8' 10"	4.9ft. 1.5m	0.25x	f/32-38	55mm	2-7/8x4-13/16in. 72.5x122mm	18-1/2oz. 525g
AF Zoom 80-200mm f/2.8 ApoG	16	13	30° 12' 30"	5.9ft. 1.8m	0.13x	f/32	72mm	3-1/2x6-9/16in. 88x166.5mm	45-1/8oz. 1280g
AF Zoom 80-200mm f/4.5-5.6	9	9	30° 12' 30"	4.9ft. 1.5m	0.16x	f/22-27	46mm	2-5/8x3-1/16in. 67x78mm	10-1/4oz. 290g
AF Zoom 100-300mm f/4.5-5.6 Apo	11	10	24° 8' 10"	4.9ft. 1.5m	0.24x	f/32-38	55mm	2-7/8x4in. 73.5x101.5mm	15-3/8oz. 435g
AF Zoom 100-300mm f/4.5-5.6	11	9	24° 8' 10"	4.9ft. 1.5m	0.24x	f/32-38	55mm	2-7/8x4in. 72.5x101.5mm	14-13/16oz. 420g
AF Zoom 100-400mm f/4.5-6.7 Apo	14	11	24° 6' 10"	6.6ft. 2.0m	0.25x	f/32-48	72mm	3-1/8x5-7/8in. 79.5x149mm	29-5/8oz. 840g

Specifications are based on the latest information available at the time of printing and are subject to change at any time without notice.