TAMRON ADAPT-A-MATIC LENS SERIES

21mm 1:4.5
28mm 1:2.8
35mm 1:2.8
135mm 1:2.8
200mm 1:3.5
300mm 1:5.6
70mm-220mm 1:4
80mm-250mm 1:3.8
200-500mm 1:6.9

tamron
Adapt-A-Matic
FULLY AUTOMATIC LENS

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70mm-220mm 1:4
with interchangeable
TAMRON ADAPT-A-MATIC Mount
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TAMRON ADAPT-A-MATIC
FULLY AUTOMATIC ZOOM LENS
70mm-220mm F 4
WITH INTERCHANGEABLE
TAMRON ADAPT-A-MATIC MOUNT....

1. Filter thread
2. Focusing ring
3. Distance scale
4. Zooming ring
5. Focal length scale
6. Tripod socket positioning lock
7. Tripod socket ring
8. Diaphragm scale
9. Depth-of-field preview lever
10. Diaphragm ring
11. Lens mount set ring
12. Lens mount

Aperture ring
Index for aperture scale
Manual aperture lever
(for depth-of-field preview)
Index for focal length scale
Focal length scale
Index for distance scale
Zooming ring
Tripod socket ring
Tripod socket
Focusing ring
R-index for infrared ray photography
(220, 125, 85, 70mm)
Distance scale

Fully Interchangeable
Mount System....

Serious photographers wishing to build up a
system of interchangeable lenses for life-time use
will find the long-sought-for answer in the TAMRON
ADAPT-A-MATIC Series.

Beside the superb optical performance guarateed
through application of the most up-to-date theories
and techniques in lens designing, the TAMRON
ADAPT-A-MATIC Series offers the advantage of a
unique fully automatic diaphragm system adapatable
to all popular models and makes of single-lens
reflex cameras. A major breakthrough in precision
engineering of the fully automatic diaphragm system,
the interchangeable TAMRON ADAPT-A-MATIC
mount instantly becomes an integral part of the
lens system when attached to the lens barrel. This
TAMRON innovation is both practical and economi-

SPECIFICATIONS:

Focal Length : f=70 mm-220 mm (zooming ratio of
1 : 3.15)
Maximum Aperture : F : 4
Lens Composition : 14 elements in 11 groups
Angle of View : 34°10'-11°10' (70mm-220mm)
Minimum Focus : 2 meters (6.5 feet)
Focusing Mechanism : Spiral helicoid focusing system
Zooming Mechanism : Helical motion zooming system (with
Mechanical Compensation); 1/4 of a
rotation (90°) of the zooming ring
covers the entire zooming range
Diaphragm Mechanism : Fully automatic diaphragm system
Focal Length Scale : 70, 85, 105, 125, 150, 180 and 220mm
Diaphragm Scale : 4, 5.6, 8, 11, 16 and 22
Filter Size : 67mm dia. screw-in type
Maximum Diameter : 71mm
Overall Length : 189mm
Weight : 1,065 grams (2 lbs 6 oz)
Others : R index for infrared ray photography
at 70, 85, 125 and 220mm; tripod
socket ring rotatable through 360°
**APERTURE SETTING**

**AUTO**
The TAMRON ADAPT-A-MATIC Zoom Lens features a fully automatic diaphragm system which couples perfectly with the function of the shutter. When the Manual Aperture Lever is set toward "A", the diaphragm remains fully open at all times, except for the fraction of a second exposure is made.

To preset the aperture, turn the Aperture Ring and align the desired figure with the index mark.

**MANUAL** (for depth-of-field preview)
To preview the depth of field at the preselected aperture, shift the Manual Aperture Lever toward "M".

**Note:**
- Always interchange lenses by avoiding direct sunlight. Take every precaution against infiltration of dust and other foreign particles into the camera.
- To prevent damaging the coupling pin, place rear cap over the mount section as soon as the lens is dismounted from the camera.

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**USE OF TRIPOD**

Adjustment of the camera for horizontal or vertical format shots can be accomplished most readily by loosening the Thumbscrew of the Tripod Socket Ring.

**Note:** Always use a sturdy, heavy-duty tripod to prevent erratic movement of the camera during exposure.

**TIPS TO HAND-HELD SHOOTING**

Hold the camera with your right hand so that your thumb falls on the shutter release, and support the lens from the bottom with your left hand as shown in the illustration.

When zooming over a wide range, however, it is advisable to grip the lens from the side with your left hand.

1. Grip the camera firmly with your right hand
2. Press the camera body against your forehead or cheek
3. Hold your right elbow flush against your body
4. Press the shutter release gently
5. Use a tripod when shooting at speeds slower than 1/60 sec.
SUPERB PERFORMANCE PLUS UNSURPASSED VERSATILITY

- TAMRON, the pioneer of zoom optics, presents the TAMRON ADAPT-A-MATIC Zoom Lens with unsurpassed versatility and superb performance, developed on the basis of years of experience in lens manufacture and long and extensive research into the field of optics. The most advanced optical theory has been applied in designing this superb zoom lens.

- With a zooming ratio of 1:3.1, the TAMRON ADAPT-A-MATIC Zoom Lens covers the most practical and extensively used focal length range from 70 mm to 220 mm. Its maximum aperture of 1:4, moreover, makes it the fastest lens in its class.

- Incorporating TAMRON'S original fully automatic diaphragm system which links perfectly with the interchangeable TAMRON ADAPT-A-MATIC mount adaptable to most popular models of SLR's, the TAMRON ADAPT-A-MATIC Zoom Lens provides utmost convenience in picture-taking. Coupled with this, only one-fourth of a turn of the zooming ring permits variation of the focal length from one extreme to another, an invaluable advantage in sports, news and other fields of photography where precise framing of fast-moving subjects with a minimum loss of time is a prerequisite.

- Including lens components made of new optical glass, the TAMRON ADAPT-A-MATIC Zoom Lens is composed of 14 elements in 11 groups.

Fully compensated for all aberrations and providing high definition up to the remotest corners, it assures sharp and contrasty effect throughout the frame. At any point throughout its varifocal range, distortion is maintained at a bare minimum. Moreover, it is fully color-corrected for ideal results in color photography.

- Because the TAMRON ADAPT-A-MATIC Zoom Lens features a specially designed built-in cam system for "mechanical compensation", perfect focus is retained even when the lens is zoomed.

- With a compact, lightweight construction and an exterior design based on human anatomy, the TAMRON ADAPT-A-MATIC Zoom Lens is easy to use, handy to carry.

For best results, read the following instructions and acquaint yourself with the proper procedure of use.
cal. Once you start building it up, your TAMRON ADAPT-A-MATIC lens system can be used most effectively with any camera, just by interchanging the lens mount. And, the procedure for installing and dismantling, too, is simplicity itself.

The following types of interchangeable TAMRON ADAPT-A-MATIC mounts are available:

- **P-CS** for Asahi Pentax S2, SV and SP, Praktica, Edixa, Mamiya TL and Ricoh Singlex TL
- **N-IF** for Nikon F, Fotonic, Nikkormat FS, FT and Nikkorex F
- **SR** for Minolta SR1, SR2, and SR7
- **K-A** for Konica Autoreflex
- **P-E** for Petri FT, V6, 6F and V3
- **C-AF** for Canon FP, FT, FX and Pellix
- **EX** for Exakta cameras
- **M-A** for Miranda F, G, Automex III and Sensorex
- **SR-T** for Minolta SR-T101

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**Mounting**

Threaded mount: Screw the lens securely into the threaded mount of the camera.

Bayonet mount: Match the red index marks on the lens and camera body and turn the lens all the way until it is mounted securely. (See illustrations)

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**Focusing**

Rotate the focusing ring. The diaphragm remains fully open for maximum brilliance of the image during focusing and composition.

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**Zooming**

Turn the zooming ring and frame your subject as desired.
VARIATION OF THE ANGLE OF VIEW

With the TAMRON ADAPT-A-MATIC Zoom Lens, you are able to select any desired focal length within the extensive zooming range of 70mm and 220mm; therefore, the angle of view can be altered to depict a given subject exactly as you envisage.

A zoom lens not only gives you greatest versatility in "reach" but enables you also to frame your subject precisely as you wish, without closing in or backing away. An impression of depth can be obtained at 70mm, but this effect becomes less accentuated as you zoom toward the telephoto extreme of 220mm (See photos below). Only with a zoom optic can you compose and frame your subject perfectly while viewing through the finder of your single-lens reflex camera and while viewing through the finder or your single-lens reflex camera and while checking the extent of the depth of field.

The TAMRON ADAPT-A-MATIC Zoom Lens offers you another advantage—a fully automatic diaphragm system which couples perfectly with the interchangeable TAMRON ADAPT-A-MATIC mount and the function of the shutter. It is adaptable to any popular models of single-lens reflex cameras and permits you to focus and compose always at full aperture. There's absolutely no possibility of spoiling an otherwise perfect shot, simply because you forgot to close down the diaphragm to the preselected setting before pressing the shutter release!
INTERCHANGEABLE

Tamron

Adapt-A-Matic

Mount

How To
Install
and
Dismantle

Important:

a) In using our lens on Nikon or Miranda Sensorex camera, please set the depth-of-field preview lever at "A" (Auto) and in no case at "M" (Manual).

b) K-A mount does not couple with aperture control ring of Konica Auto reflex camera.
The following procedure applies to installing the TAMRON Adapt-A-Matic mounts:

A group: P-CS (Pentax), N-IF (Nikon), SR (Minolta), K-A (Konica) and P-E (Peteri) Fig. 1-2-3-4-5-6 and

B group: C-AF (Canon), EX (Exakta) and M-A (Miranda) Fig. 1-2-3-4-7-8

Remove the plastic rear cover from the lens and set the depth-of-field preview lever to "A" (Auto).

Put the lens on a table and grip it with your left hand (Fig. 1) and, while holding the mount frame (1) with your right hand, match the red index mark (2) on the rim of the mount frame with that on the rearmost section of the lens barrel (Fig. 2). Then, introduce the lever (3) on the mount into the cutout section (4) of the lens barrel. When introducing the lever, take every precaution against flexing it.
While slightly pressing down the mount frame (1) with your right hand, turn it in a counter-clockwise motion over a range of about one centimeter until the positioning pin (5) engages the cut-out (6) on the rim of the mount frame (Fig. 3).

Set the aperture control ring at F16 or F22 (the minimum aperture) and press the coupling pin (7) on the mount section manually (Fig. 4) and check whether it functions smoothly. If the aperture varies each time the coupling pin is depressed, the mount must be installed all over again.
To fix the mount frame (1) to the lens barrel, set the mount-set-ring (8) from the mount side (Fig. 5 and 6), and fix it securely by turning it all the way in a clockwise motion, while pressing down the mount frame (1) as shown in Fig. 6.

Procedure for dismantling
To dismantle the TAMRON Adapt-A-Matic mount from the TAMRON ADAPT-A-MATIC Fully Automatic Lens, follow the installing procedure in reverse. First remove the mount set ring (8) and disengage the positioning pin (5) from the cut-out (6) by slightly pulling the mount frame in a clockwise motion over a range of about 1 cm, remove the mount from the lens barrel with due precaution against flexing the lever.
For Canon (C-AF), EX (Exakta) and Miranda (M-A) mounts, the mount set ring (8) will not come apart from the mount frame (1) therefore, make sure that it is loosened sufficiently before proceeding to dismantle the Adapt-A-Matic mount from the lens.
In case of C-AF (Canon), EX (Exakta) and M-A (Miranda) mounts, the mount-set-ring (8) is not separable from the mount frame. Therefore, after properly positioning the mount on the lens barrel, fix it securely by turning the mount-set-ring (8) in the same manner as with other types of mounts (Fig. 7 and 8). With C-AF, make sure that the inner (white) mount set ring (8) and not the outer camera mounting (black) ring (9) tightened securely, otherwise focus and diaphragm mechanism may not function correctly.

P.CS for Asahi Penta S2, SV and SP, Praktica, Edixa
N-IF for Nikon F, Fotomic, Nikkormat FS, FT and Nikkorex F
SR for Minolta SR1, SR2, and SR7
K-A for Konica Autoreflex
P-E for Petri FT, V6, 6F and V3
C-AF for Canon FP, FT, FX and Pellix
EX for Exakta cameras
M-A for Miranda F, G, Automex III and Sensorex
For Miranda Sensorex camera:

Put the coupler ring (10) which has an aperture control coupler (11), on rear of a lens loosely. (Fig. 9) Mount this lens on the camera and move round the ring (10) so that the center pit (12) at the tip of coupler (11) engages correctly the push pin on the camera’s coupling lever while both the lens and the camera are set on the same F value. Then fix the ring at its position by turning the tightening screw (13) clockwise. The coupler ring is an optional item offered by Tamron lens shops.