

## Nikon 80-200mm f/2.8D ED

# Nikon AF FX NIKKOR 80-200mm f/2.8D ED Zoom Lens Instruction Manual

Model: 1986

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## 1. INTRODUCTION

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This manual provides essential instructions for the proper use and care of your Nikon AF FX NIKKOR 80-200mm f/2.8D ED Zoom Lens. This high-performance telephoto zoom lens is designed for Nikon DSLR cameras, offering a fast f/2.8 maximum aperture across its focal range, making it suitable for various photographic applications including sports, portraits, and nature photography.

The lens incorporates Nikon's advanced optical technologies, such as ED (Extra-low Dispersion) glass elements and Super Integrated Coating, to deliver high-resolution images with excellent contrast and color fidelity.

## 2. KEY FEATURES

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- **Versatile Telephoto Zoom:** A 2.5x telephoto zoom range (80-200mm) suitable for sports, portraits, and nature photography.
- **Fast Constant Aperture:** A constant f/2.8 maximum aperture throughout the entire focal range ensures bright images and excellent low-light performance.
- **ED Glass Elements:** Extra-low Dispersion glass elements minimize chromatic aberration, providing high-resolution and high-contrast images, even at maximum aperture.
- **Precise Zoom Operation:** Features a rotating zoom ring for smooth and accurate focal length adjustments.
- **Nikon Super Integrated Coating:** An exclusive multilayer lens coating that reduces ghosting and flare, ensuring superior color balance and reproduction.
- **Distance Information (D-type):** Relays subject-to-camera distance information to compatible AF Nikon camera bodies, enabling advanced metering and flash control features.

## 3. SETUP

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### 3.1. Unpacking and Contents

Carefully unpack your lens and verify that all components are present. The package should contain the following items:

- Nikon AF FX NIKKOR 80-200mm f/2.8D ED Zoom Lens
- LC-77 Snap-on Front Lens Cap (77mm)
- LF-4 Rear Lens Cap
- CL-43A Hard Case



Image 1: Nikon AF FX NIKKOR 80-200mm f/2.8D ED Zoom Lens. This image shows the lens from the side, highlighting its zoom and focus rings, and the aperture scale.





Image 2: Nikon CL-43A Hard Case. This image displays the protective hard case included with the lens, designed for safe transport and storage.

### **3.2. Attaching the Lens to Your Camera**

1. Ensure both the camera and lens are powered off.
2. Remove the rear lens cap from the lens and the body cap from the camera.
3. Align the mounting mark on the lens with the mounting mark on the camera body.
4. Rotate the lens counter-clockwise until it clicks into place. Do not force the lens.
5. To detach, press the lens release button on the camera body and rotate the lens clockwise.

### **3.3. Lens Compatibility**

This lens is compatible with a wide range of Nikon DSLR cameras. Refer to the compatibility chart below to understand the functionality with your specific camera model. This lens is an AF (Autofocus) type, meaning it requires a camera body with an internal focus motor for autofocus functionality.

NIKKOR Lens Compatibility Chart					
Camera Body	AI lens	AF lens	AF-S lens	AF-P lens	E-Type lens
D3000	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Not Compatible	Not Compatible
D3100	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Not Compatible	Full Compatibility
D3200	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Not Compatible	Full Compatibility
D3300	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Full Compatibility	Full Compatibility
D3400	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Full Compatibility	Full Compatibility
D5000	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Not Compatible	Full Compatibility
D5100	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Not Compatible	Full Compatibility
D5200	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Limited Compatibility*	Full Compatibility
D5300	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Limited Compatibility*	Full Compatibility
D5500	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Full Compatibility	Full Compatibility
D5600	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Full Compatibility	Full Compatibility•
D7000	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Full Compatibility
D7100	Full Compatibility	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility
D7200	Full Compatibility	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility
D7500	Limited Compatibility‡	Full Compatibility	Full Compatibility	Full Compatibility	Full Compatibility•
D40/D40X	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Not Compatible	Not Compatible
D60	Limited Compatibility‡	Limited Compatibility†	Full Compatibility	Not Compatible	Not Compatible
D70/D70S	Limited Compatibility‡	Full Compatibility	Full Compatibility	Not Compatible	Not Compatible
D80	Limited Compatibility‡	Full Compatibility	Full Compatibility	Not Compatible	Not Compatible
D90	Limited Compatibility‡	Full Compatibility	Full Compatibility	Not Compatible	Not Compatible
D100	Limited Compatibility†	Full Compatibility	Full Compatibility	Not Compatible	Not Compatible
D200	Limited Compatibility†	Full Compatibility	Full Compatibility	Not Compatible	Not Compatible
D300/D300S	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Full Compatibility
D500	Full Compatibility	Full Compatibility	Full Compatibility	Full Compatibility	Full Compatibility
D600	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Full Compatibility
D610	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Full Compatibility
D700	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Full Compatibility
D750	Full Compatibility	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility
D800/D800E	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Full Compatibility
D810	Full Compatibility	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility
D810A	Full Compatibility	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility
D850	Full Compatibility	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility
D1 series	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Not Compatible
D2 series	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Not Compatible
D3 series	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Full Compatibility
D4/D4S	Full Compatibility	Full Compatibility	Full Compatibility	Not Compatible	Full Compatibility
D5	Full Compatibility	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility
Df	Full Compatibility	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility
Nikon 1 series with FT-1	Some AI lenses Compatible	Full Compatibility	Full Compatibility	Limited Compatibility*	Full Compatibility

Limited Compatibility† Can only be used as a manual focus lens. No AF. *Please see your camera's user manual for reference*  
Limited Compatibility‡ Exposure can not be metered TTL. Must use a light meter.  
Limited Compatibility\* May require a firmware update  
Full Compatibility• Some restrictions apply to PC/PC-E lenses

Image 3: NIKKOR Lens Compatibility Chart. This chart details the compatibility of various NIKKOR lens types (AI, AF, AF-S, AF-P, E-Type) with different Nikon camera bodies, indicating full, limited, or no compatibility for features like autofocus.

**Note:** For cameras without an internal focus motor (e.g., D40, D3100, D5100 series), this lens will operate in manual focus mode only. Refer to your camera's manual for specific details on lens compatibility and operation.

## 4. OPERATION

### 4.1. Focus Modes (Auto Focus / Manual Focus)

The Nikon AF FX NIKKOR 80-200mm f/2.8D ED lens supports both autofocus (AF) and manual focus (M).

- **Autofocus (AF):** To use autofocus, ensure your camera body has an internal focus motor and is set to an AF mode. The lens will automatically adjust focus when the shutter button is half-pressed.
- **Manual Focus (M):** For manual focusing, set your camera to manual focus mode. Rotate the focus ring on the lens to achieve sharp focus. This mode is particularly useful for precise control or when autofocus struggles in challenging conditions.

This lens is a D-type NIKKOR, meaning it relays subject-to-camera distance information to compatible Nikon AF camera bodies. This enables advanced features such as 3D Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash, enhancing exposure accuracy and flash control.

### 4.2. Zooming

To adjust the focal length, rotate the zoom ring located on the lens barrel. The focal lengths (80mm, 105mm, 135mm, 200mm) are marked on the ring. Rotate the ring to select your desired focal length within the 80-200mm range.

### 4.3. Aperture Control

The lens features a constant maximum aperture of f/2.8 across its entire zoom range. Aperture settings are controlled via the camera body. For optimal performance, ensure the lens's aperture ring is locked at its minimum aperture (usually f/22 or f/32, indicated in orange or green) when using modern Nikon DSLRs, allowing the camera to control the aperture electronically.

### 4.4. ED Glass Technology

Nikon's ED (Extra-low Dispersion) glass is crucial for telephoto lenses. It corrects chromatic aberration, which is the dispersion of light into different colors as it passes through optical glass. By minimizing this effect, ED glass ensures superior sharpness and color correction, resulting in high-resolution and high-contrast images, even when shooting at the widest aperture.

### 4.5. Nikon Super Integrated Coating

This lens features Nikon's Super Integrated Coating, an exclusive multilayer lens coating. This coating significantly reduces ghosting and flare, which can occur when light reflects off internal lens elements. It also contributes to superior color balance and accurate color reproduction, especially beneficial in lenses with multiple elements like zoom lenses.

## 5. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your lens.

- **Cleaning the Lens:** Use a soft, lint-free cloth or a lens brush to remove dust. For smudges or fingerprints, use a specialized lens cleaning solution and a clean microfiber cloth. Apply solution to the cloth, not directly to the lens.
- **Storage:** When not in use, attach both the front and rear lens caps. Store the lens in its provided CL-43A hard case in a cool, dry place away from direct sunlight and extreme temperatures. Avoid storing in areas with high humidity to prevent mold growth.
- **Handling:** Avoid dropping or subjecting the lens to strong impacts. Do not attempt to disassemble the lens, as this can void the warranty and cause damage.
- **Moisture:** Protect the lens from rain, snow, and excessive moisture. If the lens gets wet, wipe it dry immediately with a soft cloth.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with your lens.

- **Autofocus Not Working:**
  - Ensure your camera body has an internal focus motor (refer to the compatibility chart).
  - Check that both the camera and lens are set to autofocus mode.
  - Verify that the lens is securely attached to the camera body.
  - In very low light or with low-contrast subjects, autofocus may struggle. Try switching to manual focus or using your camera's AF-assist illuminator.
- **Soft Images / Lack of Sharpness:**
  - Ensure proper focus. If using autofocus, confirm the camera is focusing on your intended subject.
  - Check shutter speed. At longer focal lengths (e.g., 200mm), a faster shutter speed is often required to prevent

camera shake, especially without Vibration Reduction (VR).

- Use a sturdy tripod or monopod for critical sharpness, especially in lower light.
- Clean the front and rear lens elements.
- While the lens performs well at f/2.8, some lenses exhibit slightly improved sharpness when stopped down by one or two stops (e.g., to f/4 or f/5.6).

- **Dust or Debris Inside Lens:**

Minor dust particles inside the lens are common and rarely affect image quality. If you notice significant debris affecting your images, contact Nikon service for professional cleaning. Do not attempt to disassemble the lens yourself.

## 7. SPECIFICATIONS

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Feature	Detail
Model Number	1986
Focal Length	80-200mm
Maximum Aperture	f/2.8
Minimum Aperture	f/22
Lens Type	Telephoto Zoom Lens
Compatible Mountings	Nikon F (DX), Nikon F (FX)
Minimum Focus Distance	4.9 ft (1.5m)
Diaphragm Blades	9
Filter Size	77mm
Dimensions (Diameter x Length)	Approximately 3.43 x 7.36 inches (87 x 187 mm)
Weight	Approximately 2.87 pounds (1.3 kg)
Included Accessories	LC-77 Front Lens Cap, LF-4 Rear Lens Cap, CL-43A Hard Case

## 8. SUPPORT AND WARRANTY

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For technical assistance, service, or warranty information regarding your Nikon AF FX NIKKOR 80-200mm f/2.8D ED Zoom Lens, please contact Nikon customer support or visit the official Nikon website.

**Nikon Official Website:** [www.nikonusa.com](http://www.nikonusa.com)

Please retain your proof of purchase for warranty claims.

