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Canon 2544A003

Canon TS-E 90mm f/2.8 Tilt Shift Lens Instruction Manual

Model: 2544A003
Brand: Canon

1. Product Overview

The Canon TS-E 90mm f/2.8 Tilt Shift Lens is a specialized manual focus lens designed for Canon SLR cameras. It features Gaussian optics for high-quality delineation and smooth background blur. This lens allows photographers to control the angle of the plane of focus and perspective, offering creative possibilities previously associated with large-format cameras.

Key features include:

- **EF mount:** Compatible with Canon EOS SLR cameras.
- **Tilt Shift Functionality:** Enables precise control over perspective and depth of field.
- **Gaussian Optics:** Delivers high-quality image delineation and true background blur.
- **90mm Focal Length:** A versatile telephoto focal length suitable for portraits, products, and architectural details.
- **f/2.8 Maximum Aperture:** Provides excellent low-light performance and shallow depth of field.
- **Manual Focus Only:** Offers precise control over focusing.

The lens is designed to be compact and professional, capable of producing impressively sharp images. Its closest focusing distance is 1.6 feet (0.5 meters), providing magnifications of approximately 1/3 life-size.

2. What's in the Box

Upon opening your Canon TS-E 90mm f/2.8 Tilt Shift Lens package, you should find the following items:

- Canon TS-E 90mm f/2.8 Tilt-Shift Lens
- E-58 II 58mm Lens Cap

- Lens Dust Cap E (Rear)
- ES-65 III Lens Hood
- LP1016 Soft Lens Case
- Warranty Card

3. Setup

3.1 Attaching the Lens

1. Ensure your camera is powered off.
2. Remove the rear lens cap from the TS-E 90mm lens and the body cap from your Canon EOS SLR camera.
3. Align the red dot on the lens with the red dot on the camera's lens mount.
4. Insert the lens into the camera mount and turn it clockwise until it clicks into place.

3.2 Detaching the Lens

1. Ensure your camera is powered off.
2. While pressing the lens release button on the camera body, turn the lens counter-clockwise until it stops.
3. Remove the lens from the camera.
4. Attach the rear lens cap to the lens and the body cap to the camera to protect them from dust.

4. Operating the Lens

4.1 Manual Focus

The Canon TS-E 90mm f/2.8 is a manual focus lens. To focus, rotate the focusing ring on the lens barrel until your subject appears sharp in the viewfinder or on the camera's LCD screen (using Live View for greater precision).

4.2 Aperture Control

This lens features an f/2.8 maximum aperture, allowing for excellent performance in low-light conditions and the creation of images with shallow depth of field. Automatic aperture control is enabled, supporting autoexposure and autoexposure bracketing with compatible EOS cameras.

4.3 Tilt and Shift Functions

The unique tilt and shift mechanisms allow for creative control over perspective and depth of field. The tilt function changes the plane of focus, while the shift function corrects perspective distortion. The tilt and shift axes intersect at a 90-degree angle. This configuration can be modified to be parallel at an authorized Canon Service Facility, at the owner's expense.

Figure 1: Canon TS-E 90mm f/2.8 Tilt Shift Lens in its standard, unshifted position.

Figure 2: Canon TS-E 90mm f/2.8 Tilt Shift Lens demonstrating the tilt function, altering the plane of focus.

4.3.1 Tilt Function

To use the tilt function, loosen the tilt lock knob and gently tilt the front of the lens up or down, or left or right, to adjust the plane of focus. This can be used to keep an entire subject sharp from foreground to background (e.g., a landscape) or to create a miniature effect by limiting the depth of field to a narrow band.

4.3.2 Shift Function

To use the shift function, loosen the shift lock knob and move the front of the lens parallel to the sensor. This is primarily used to correct converging lines in architectural photography, making tall buildings appear straight rather than leaning backward. It can also be used to create panoramas by shifting the lens without moving the camera.

5. Maintenance

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

- **Cleaning the Lens Surface:** Use a lens blower to remove dust, then a soft lens brush. For smudges or fingerprints, use a lens cleaning solution and a microfiber cloth, wiping gently in a circular motion from the center outwards.
- **Cleaning the Lens Body:** Wipe the lens body with a soft, dry cloth. Avoid using organic solvents.
- **Storage:** Store the lens with both front and rear caps attached in a cool, dry, and well-ventilated area. Avoid direct sunlight, high temperatures, and high humidity. If storing for extended periods, consider using a desiccant.
- **Handling:** Always handle the lens carefully. Avoid dropping it or subjecting it to strong impacts.

6. Troubleshooting

If you encounter issues with your Canon TS-E 90mm f/2.8 lens, consider the following common troubleshooting steps:

- **Difficulty Focusing:** Ensure the focusing ring is turning smoothly. As this is a manual focus lens, practice and careful adjustment are key. Use Live View with magnification for critical focus.
- **Image Blur:** Check your shutter speed and aperture settings. A slow shutter speed can cause blur due to camera shake. Ensure the lens is securely mounted to the camera.
- **Dust on Images:** This is often due to dust on the camera sensor, not the lens. Refer to your camera's manual for sensor cleaning procedures. For dust on the lens elements, follow the cleaning instructions in Section 5.
- **Lens Not Attaching/Detaching:** Ensure proper alignment of the red dots and that the lens release button is fully pressed when detaching. Do not force the lens.

For persistent issues, contact an authorized Canon service center.

7. Specifications

Feature	Specification
Product Dimensions	3.46 x 2.91 x 2.91 inches
Item Weight	1.25 pounds
ASIN	B00009XVDP
Item Model Number	2544A003
Date First Available	October 2, 2001
Manufacturer	Canon
Brand	Canon
Focal Length Description	90 mm
Lens Type	Tilt Shift
Compatible Mountings	Canon EF
Filter Size	58 mm

Feature	Specification
Closest Focusing Distance	1.6 feet (0.5 meters)

8. Warranty and Support

Your Canon TS-E 90mm f/2.8 Tilt Shift Lens comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms, conditions, and duration of coverage.

For technical support, service, or additional information, please visit the official Canon website or contact Canon customer service. Keep your purchase receipt and product serial number handy for any warranty claims or support inquiries.

Online resources and further learning materials can often be found on the Canon support pages, which may include FAQs, driver downloads, and detailed guides for your specific camera and lens models.

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