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SHIMANO PD-ED500

SHIMANO PD-ED500 Cycle Touring SPD Pedal Instruction Manual

Model: PD-ED500

Product Overview | Setup & Installation | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Product Overview

The SHIMANO PD-ED500 is a versatile SPD pedal designed for cycle touring. It features a double-sided light action binding mechanism for easy engagement and release, adjustable tension settings, and a durable construction with a sealed cartridge axle and chrome-moly spindle. This pedal is suitable for various cycling conditions, including road and city riding, and is compatible with multi-directional release cleats.

Key Features:

- **Double-Sided Light Action SPD Design:** Facilitates easy clipping in and out.
- **Adjustable Tension Settings:** Allows customization of cleat tension for rider preference.
- **Sealed Cartridge Axle:** Provides low-maintenance durability.
- **Chrome-Moly Spindle:** Ensures robust and long-lasting performance.
- **Multi-Directional Release Cleats:** Included for enhanced confidence during release.



Image 1.1: Overview of the SHIMANO PD-ED500 pedal highlighting its key features such as the sealed bearing cartridge axle, light-action binding, double-sided SPD mechanism, and tension adjustment screw.

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Video 1.1: Official product overview video for the SHIMANO PD-ED500 Cycle Touring SPD Pedal, demonstrating its design and features.

2. Setup & Installation

Proper installation of your SHIMANO PD-ED500 pedals is crucial for safety and optimal performance. Follow these steps carefully.

2.1 Tools Required:

- Pedal wrench (15mm) or 8mm Hex key
- Grease

2.2 Pedal Installation:

1. Identify the left (L) and right (R) pedals. The right pedal has a standard thread, and the left pedal has a reverse thread.
2. Apply a thin layer of grease to the pedal threads. This prevents seizing and makes future removal easier.
3. For the right pedal (R), thread it clockwise into the right crank arm. For the left pedal (L), thread it counter-clockwise into the left crank arm.
4. Hand-tighten the pedals first to ensure they are correctly aligned and not cross-threaded.
5. Using a pedal wrench or 8mm hex key, tighten the pedals securely. The recommended tightening torque is 35-55 N·m (Newton-meters).



Image 2.1: Detail of the pedal spindle, showing the threading and the 'R' marking for the right pedal, indicating its installation direction.

2.3 Cleat Installation (SM-SH56 Multi-Directional Release Cleats):

The PD-ED500 pedals come with SM-SH56 multi-directional release cleats. These cleats allow release by twisting your heel in any direction, not just outwards, which can be beneficial for new clipless pedal users.

1. Attach the cleats to your SPD-compatible cycling shoes using the provided bolts and washers.

2. Adjust the cleat position for comfort and efficiency. A common starting point is to align the center of the cleat with the ball of your foot.
3. Tighten the cleat bolts securely. Refer to your shoe manufacturer's recommendations for torque specifications.

3. Operation

Understanding how to properly engage and release from your SPD pedals is essential for safe and enjoyable cycling.

3.1 Engaging the Cleats:

- Position the front of your cleat over the front hook of the pedal binding.
- Press down firmly with your heel until you hear a "click." This indicates that the cleat is securely engaged.
- Practice engaging and disengaging in a safe, open area before riding in traffic.

3.2 Releasing the Cleats:

- To release, twist your heel outwards (away from the bicycle) or inwards (towards the bicycle) for multi-directional release cleats.
- A distinct "click" will indicate that your foot is disengaged from the pedal.
- For emergency stops, you can also pull your foot directly upwards with force, though this is less common with multi-directional release cleats.



Image 3.1: A cyclist's shoe properly engaged with the SHIMANO PD-ED500 pedal, illustrating the clipped-in position.

3.3 Adjusting Release Tension:

The release tension of the pedal bindings can be adjusted to suit your preference. Lower tension makes it easier to release, while higher tension provides a more secure connection.

1. Locate the tension adjustment screw on the rear of each pedal binding.
2. Use a hex wrench to turn the screw. Turn clockwise to increase tension (harder release) and counter-clockwise to decrease tension (easier release).
3. Ensure both pedals are set to the same tension for consistent release feel.



Image 3.2: Close-up view of the tension adjustment screw on the pedal binding, used to customize release force.

4. Maintenance

Regular maintenance will extend the life of your SHIMANO PD-ED500 pedals and ensure smooth operation.

4.1 Cleaning:

- After each ride, especially in wet or muddy conditions, clean the pedals and cleats to remove dirt and debris.
- Use a brush and mild soap with water. Avoid high-pressure washers directly on the pedal bearings.
- Ensure all parts are dry before storage.

4.2 Lubrication:

- Apply a small amount of light lubricant to the pedal bindings periodically to ensure smooth engagement and release.
- The sealed cartridge axle is designed for low maintenance and typically does not require frequent lubrication. However, if you notice any stiffness or noise, consult a professional bicycle mechanic.

4.3 Inspection:

- Regularly inspect pedals and cleats for wear, damage, or loose bolts.
- Worn cleats can lead to accidental release or difficulty engaging. Replace cleats when they show significant wear.
- Check that the pedal spindle is securely tightened to the crank arm.

5. Troubleshooting

This section addresses common issues you might encounter with your SHIMANO PD-ED500 pedals.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Difficulty clipping in or out	Cleat tension too high/low Dirt or debris in pedal mechanism Worn cleats Incorrect cleat position	Adjust tension screws (see Section 3.3) Clean pedals and cleats thoroughly (see Section 4.1) Inspect and replace worn cleats Adjust cleat position on shoe
Unintentional release from pedal	Cleat tension too low Severely worn cleats Damaged pedal binding	Increase tension (see Section 3.3) Replace cleats Inspect pedal for damage; replace if necessary
Pedal squeaking or grinding noise	Lack of lubrication Dirt in bearings Loose pedal	Lubricate pedal bindings Clean around axle and bindings Check pedal tightness to crank arm

6. Specifications

Detailed technical specifications for the SHIMANO PD-ED500 Cycle Touring SPD Pedal.

Feature	Detail
Model Number	EPDED500
Series	SHIMANO
Color	Black
Weight	450 Grams (approx.)
Pedal Type	SPD (Clipless)
Binding	Double-sided
Cleat Compatibility	SPD (SM-SH56 multi-directional release cleats included)
Axle Material	Chrome-Moly Steel
Body Material	Aluminum
Bearing Type	Sealed Cartridge
Dimensions (L x W)	7.09" x 5.91" (approx.)
Recommended Use	Cycle Touring, Road, City

7. Warranty & Support

For warranty information, product support, or to locate an authorized service center, please refer to the official SHIMANO website or contact their customer service directly.

- **Official Website:** bike.shimano.com
- **Customer Service:** Refer to the contact section on the official website for regional support details.

Keep your proof of purchase for any warranty claims.

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