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SHIMANO RD-M780 OUTER PLATE ASSEMBLY (SGS)

SHIMANO Deore XT M780 10-Speed RD-M780 Outer Plate Assembly (SGS Type) Instruction Manual

Model: RD-M780 OUTER PLATE ASSEMBLY (SGS) | Part Number: Y5XP98050

1. Introduction

This manual provides essential information for the proper installation, function, and maintenance of your SHIMANO Deore XT M780 10-Speed RD-M780 Outer Plate Assembly (SGS Type). This component is a crucial part of the rear derailleur, ensuring precise and reliable gear shifting. Please read these instructions carefully before proceeding with installation or maintenance to ensure optimal performance and longevity of your bicycle components.

2. Product Overview



Figure 1: SHIMANO Deore XT M780 10-Speed RD-M780 Outer Plate Assembly (SGS Type). This image displays the black metal plate featuring cutouts for weight reduction and mounting points for the derailleur cage and pulley wheels. Two small silver pins, likely for securing components, are shown alongside the main plate.

The SHIMANO Deore XT M780 10-Speed RD-M780 Outer Plate Assembly (SGS Type) is a replacement part designed for the SHIMANO Deore XT M780 10-speed rear derailleur. It forms part of the derailleur cage, which guides the chain across the cassette cogs. The SGS (Super Long Cage) type is suitable for wider gear ranges, typically found on mountain bikes.

3. Compatibility

This outer plate assembly is specifically designed for use with the SHIMANO Deore XT M780 10-Speed rear derailleur (RD-M780) with an SGS (Super Long Cage) configuration. Ensure your existing derailleur is a Deore XT M780 10-speed SGS type for proper fit and function. Using this part with incompatible derailleurs may lead to poor shifting performance or damage to the drivetrain.

4. Setup and Installation

Installation of derailleur components requires specific tools and technical knowledge. If you are unsure about any step, it is recommended to seek assistance from a qualified bicycle mechanic.

1. **Preparation:** Ensure your bicycle is securely mounted in a repair stand. Shift the chain to the smallest cog on the cassette and the smallest chainring to reduce chain tension.

2. **Remove Old Plate:** Carefully identify and remove the bolts or pins securing the existing outer plate assembly to the inner plate and pulley wheels. Note the orientation and placement of all small parts, including washers and bushings.
3. **Clean Components:** Clean any dirt or debris from the inner plate, pulley wheels, and associated hardware before installing the new outer plate.
4. **Install New Plate:** Position the new SHIMANO RD-M780 Outer Plate Assembly, ensuring it aligns correctly with the inner plate and the pulley wheel axles.
5. **Secure Components:** Reinstall all bolts, pins, and washers, tightening them to the manufacturer's specified torque values. Refer to the complete SHIMANO Deore XT M780 dealer manual for precise torque specifications.
6. **Check Functionality:** After installation, manually shift through all gears to confirm smooth operation and proper chain clearance. Adjust the derailleur as necessary.

5. Operating Principles

The outer plate assembly, in conjunction with the inner plate, forms the cage of the rear derailleur. This cage holds the two pulley wheels (guide pulley and tension pulley) which guide the bicycle chain. As the derailleur moves laterally across the cassette, the outer plate assembly ensures the chain is properly aligned with the selected cog, facilitating smooth and efficient gear changes. The SGS (Super Long Cage) design provides sufficient chain wrap capacity for wide-range cassettes, accommodating a larger difference between the smallest and largest cogs.

6. Maintenance

Regular maintenance is essential for the longevity and performance of your derailleur components.

- **Cleaning:** Periodically clean the outer plate assembly and pulley wheels to remove accumulated dirt, grime, and old lubricant. Use a mild degreaser and a brush, then rinse thoroughly.
- **Inspection:** Regularly inspect the outer plate for any signs of damage, bending, or cracks. Check the pulley wheels for wear (e.g., pointed teeth) and ensure they spin freely.
- **Lubrication:** After cleaning, apply a small amount of appropriate chain lubricant to the pulley wheel bearings and pivot points of the derailleur cage. Avoid over-lubrication, which can attract dirt.
- **Fastener Check:** Ensure all bolts and fasteners securing the outer plate and pulley wheels are tightened to the correct torque specifications.

7. Troubleshooting

If you experience issues with your rear derailleur after installing or using the outer plate assembly, consider the following:

- **Poor Shifting Performance:** This could indicate incorrect derailleur adjustment (limit screws, B-tension, cable tension), a bent derailleur hanger, or worn pulley wheels. Ensure the outer plate is not bent or damaged.
- **Noise from Derailleur:** Check for proper lubrication of pulley wheels. Ensure no foreign objects are caught in the cage. Verify that the outer plate is not rubbing against the chain or cassette.
- **Chain Dropping:** Incorrect limit screw adjustment or a bent outer plate can cause the chain to drop off the cassette. Inspect the outer plate for any deformation.

For persistent issues, consult a professional bicycle mechanic.

8. Specifications

Specification	Detail
Brand Name	SHIMANO
Model Name	RD-M780 OUTER PLATE ASSEMBLY (SGS)
Part Number	Y5XP98050
Compatibility	SHIMANO Deore XT M780 10-Speed Rear Derailleur (SGS Type)
Item Weight	Approximately 10.08 ounces (component weight may vary)
Number of Items	1
Manufacturer	Shimano Cycling

9. Warranty and Support

SHIMANO products are manufactured to high standards and are covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, conditions, and duration, please refer to the official SHIMANO warranty policy available on their website or contact your authorized SHIMANO dealer. For technical support or service, please contact your local SHIMANO distributor or an authorized service center.

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