Dealer's Manual

| ROAD | МТВ | Trekking | | |
|-------------------------------|-------------|----------|--|--|
| City Touring/ Comfort Bike | URBAN SPORT | E-BIKE | | |
| | | | | |
| Pedal | | | | |
| | | | | |

DEORE XT PD-T8000

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IMPORTANT NOTICE

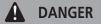
• This dealer's manual is intended primarily for use by professional bicycle mechanics.

Users who are not professionally trained for bicycle assembly should not attempt to install the components themselves using the dealer's manuals. If any part of the information on the manual is unclear to you, do not proceed with the installation. Instead, contact your place of purchase or a local bicycle dealer for their assistance.

- Make sure to read all instruction manuals included with the product.
- Do not disassemble or modify the product other than as stated in the information contained in this dealer's manual.
- All dealer's manuals and instruction manuals can be viewed on-line on our website (http://si.shimano.com).
- Please observe the appropriate rules and regulations of the country, state or region in which you conduct your business as a dealer.

For safety, be sure to read this dealer's manual thoroughly before use, and follow it for correct use.

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings. The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.



Failure to follow the instructions will result in death or serious injury.



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Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

TO ENSURE SAFETY

A WARNING TO PARENT/GUARDIAN

• For child safety, make sure the child uses this product correctly by following the instructions below. Both guardians and children should gain an adequate understanding of the content of this manual. Failure to follow the provided instructions may lead to serious injury.

• Be sure to follow the instructions provided in the manuals when installing the product.

It is recommended to use genuine Shimano parts only. If parts such as bolts and nuts become loose or damaged, the bicycle may suddenly fall over, which may cause serious injury.

In addition, if adjustments are not carried out correctly, problems may occur, and the bicycle may suddenly fall over, which may cause serious injury.

- Be sure to wear safety glasses or goggles to protect your eyes while performing maintenance tasks such as replacing parts.
- After reading the dealer's manual thoroughly, keep it in a safe place for later reference.

Be sure to also inform users of the following:

If the warnings below are not followed, your shoes may not come out of the pedals when you intend or they may come out unexpectedly or accidentally, and severe injury may result.

Descriptions regarding SPD pedals

- SPD pedals are designed to be released only when intended. They are not designed to be released automatically when you have fallen off the bicycle.
- Before attempting to ride with these pedals and shoes, make sure you understand the operation of the engagement/release mechanism for the pedals and cleats (shoes).
- Before you attempt to ride with these pedals and shoes, apply the brakes, then place one foot on the ground and practice engaging and releasing each shoe from its pedal until you can do so naturally and with minimal effort.
- Ride on level ground first until you become accustomed to engaging and releasing your shoes from the pedals.
- Before riding, adjust the spring tension of the pedals to your liking. If the spring tension of the pedals is low, the cleats may become accidentally released and you may lose balance and fall off the bicycle. If the spring tension of the pedals is high, the cleats cannot be easily released.
- When riding at low speed or when there is a possibility that you might need to stop riding, (for example, when doing a U-turn, nearing an intersection, riding uphill or turning a blind curve), release your shoes from the pedal beforehand so that you can quickly put your feet onto the ground at any time.
- Use a lighter spring tension for attaching the pedal cleats when riding in adverse conditions.
- Keep cleats and bindings out of dirt and debris to ensure proper engagement and release.
- Remember to check the cleats periodically for wear. When the cleats are worn, replace them, and always check the spring tension before riding and after replacing the pedal cleats.
- Use only SPD shoes with this product. Other types of shoe may not release from the pedals, or may release unexpectedly.
- Use only Shimano cleats (SM-SH51/SM-SH56) and make sure that the mounting bolts are tightened securely to the shoes.

Descriptions regarding flat pedals

- If the gripping force between the shoes and the pedals (the force which stops the shoes from slipping sideways) is insufficient use long pins to increase the gripping force. This will increase the gripping force. If the gripping force on the shoes is increased, you will not be able to disengage your feet from the pedals by sliding them sideways unless you first raise your feet from the pedals. To avoid falling off the bicycle and suffering serious injury, practice engaging and disengaging one foot from the pedal with the other foot firmly on the ground until you become used to the operation. If you cannot get used to the operation, use short pins instead.
- Because the pins are long, they may cause injury if they come into direct contact with your skin. Be sure to wear clothing and protective gear which is suitable for the way in which the bicycle is to be used.
- Do not continue riding the bicycle if the reflectors are dirty or damaged, otherwise it becomes more difficult for oncoming vehicles to see you.

NOTE

Be sure to also inform users of the following:

- Check that there is no looseness in any joints or connections before riding the bicycle.
- Check that there is no looseness in the cleats before riding the bicycle.
- If pedaling performance does not feel normal, check the bicycle once more.
- If you experience any trouble with the rotating parts of the pedal, the pedal may require adjustment. Consult a dealer or an agency.
- Be sure to retighten the crank arms and pedals at periodic intervals at the place of purchase or a bicycle dealer.
- If you are unsure of how to replace the short and long pins on the pedals, consult a dealer or an agency.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

The actual product may differ from the illustration because this manual is intended mainly to explain the procedures for using the product.

LIST OF TOOLS TO BE USED

LIST OF TOOLS TO BE USED

Tool Tool Tool 2 mm 8 mm 2mm hexagon wrench 8mm hexagon wrench 17mm spanner 17mm **9** #2 _____ _____ 3mm hexagon wrench 7mm spanner Screwdriver[#2] 'nm 4mm hexagon wrench 10mm spanner <u>10mm</u>

The following tools are needed for installation, adjustment, and maintenance purposes.

INSTALLATION

Cleat types

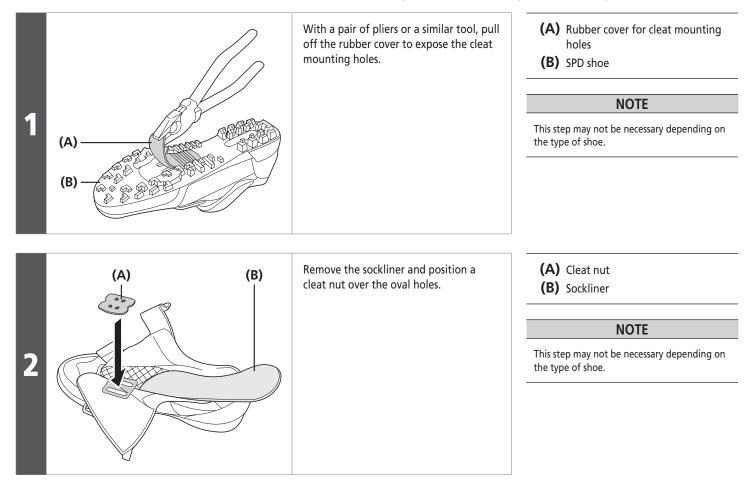
INSTALLATION

Cleat types

| Single release mode cleats | SM-SH51 (black) | Front |
|------------------------------|------------------------|-------|
| Multiple release mode cleats | SM-SH56 (silver, gold) | |
| | | |

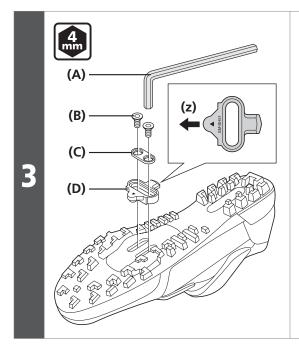
Attaching the cleats

Set the cleat on the bottom of each shoe as shown in the illustration, and then tighten the cleat mounting bolts, temporarily.



INSTALLATION

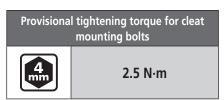
Adjusting cleat position



Position the cleat followed by the cleat adapter on to the sole of the shoe and then temporarily tighten them with the cleat mounting bolts.

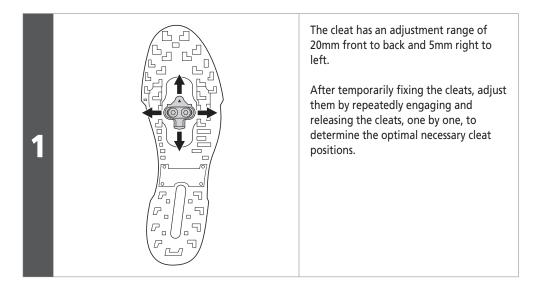
The cleats are compatible with both left and right pedals.

- (Z) Position the triangular portion of the cleat toward the front of the shoe.
- (A) 4mm hexagon wrench
- (B) Cleat mounting bolt
- (C) Cleat adapter
- (D) Cleat

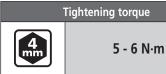


Adjusting cleat position

2



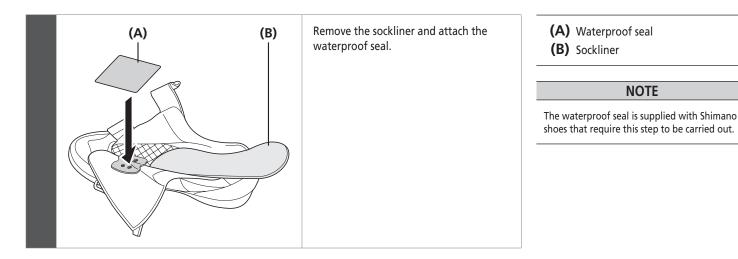
After the optimal cleat positions have been determined, firmly tighten the cleat mounting bolts with a 4mm hexagon wrench.



INSTALLATION

Waterproof seal

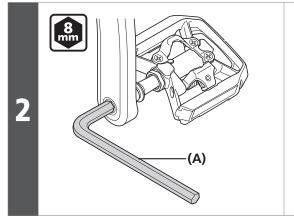
Waterproof seal



Mounting the pedals on the crank arms

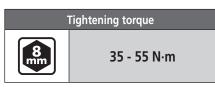


Apply a small amount of grease to the thread to prevent sticking.



Use a 8mm hexagon wrench to install the pedals to the cranks.

- The right pedal has a right-hand thread; the left pedal has a left-hand thread.
- (A) 8mm hexagon wrench



NOTE

Remove any roughness or bumps on the joint, if detected.

ADJUSTMENT

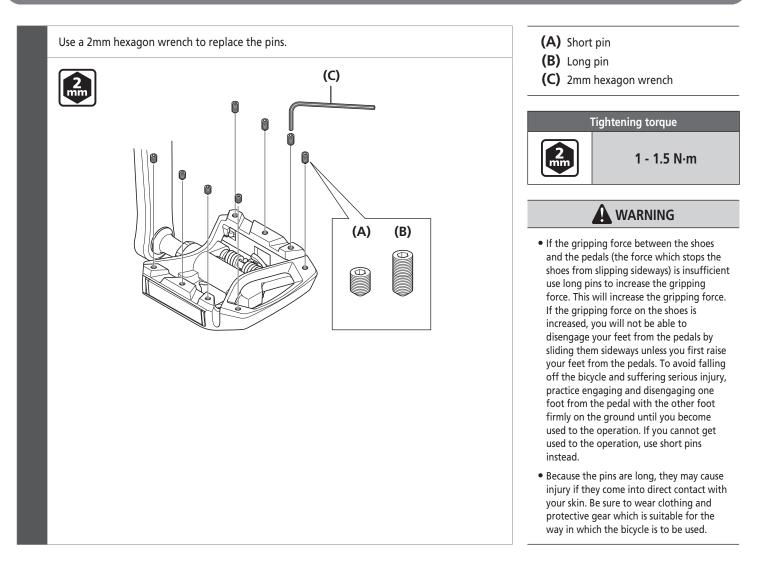
Adjusting the gripping force

ADJUSTMENT

Adjusting the gripping force

Long pins and shorts pins are included with this product. Adjust the gripping force between the pedal and the shoe sole by using either short pins or long pins in all locations.

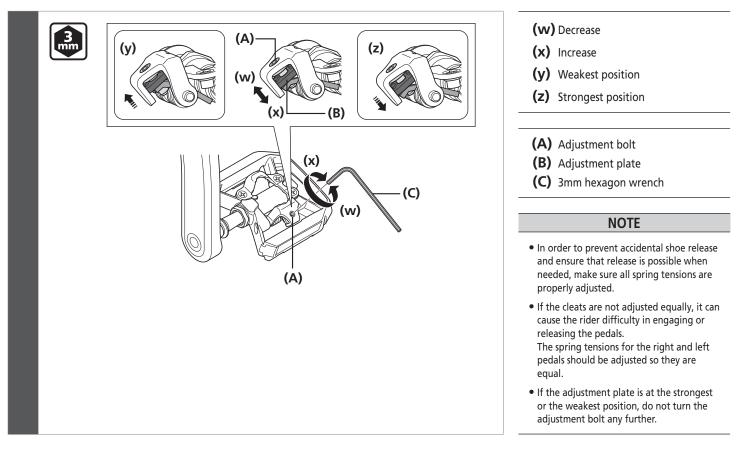
Replacing the pins



Adjusting the spring tension of the pedals

Adjusting the spring tension of the pedals

- The spring tension of the pedals can be adjusted by turning the adjustment bolt.
- Clicking the adjustment bolt changes the tension one step. There are four clicks per turn.
- The adjustment bolt is located at the rear of each binding, resulting in two positions in total.
- Adjust the spring force to the optimal cleat holding force as needed when releasing the cleats from the bindings.
- Equalize the cleat holding forces at all positions by checking the adjustment plate position and counting the number of turns of the adjustment bolts.
- Turning the adjustment bolt clockwise increases the spring tension, and turning it counterclockwise decreases it.



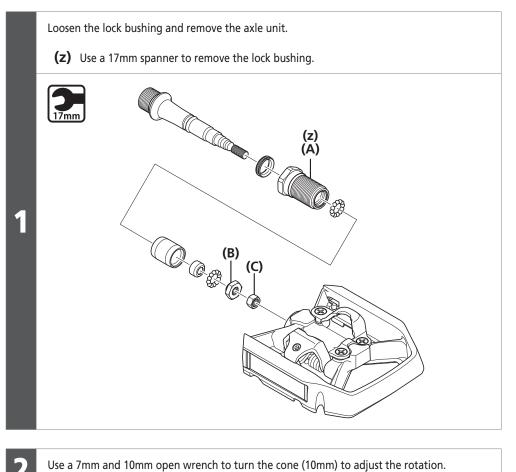
MAINTENANCE

Axle unit

MAINTENANCE

Axle unit

Adjustment is required if the rotating parts are not functioning properly. Follow the procedure shown below.



| (A) | Lock bush |
|------------|-----------|
| (B) | Cone |

(C) Lock nut

NOTE

The lock bush of the right pedal has a left-hand thread; the lock bush of the left pedal has a right-hand thread.

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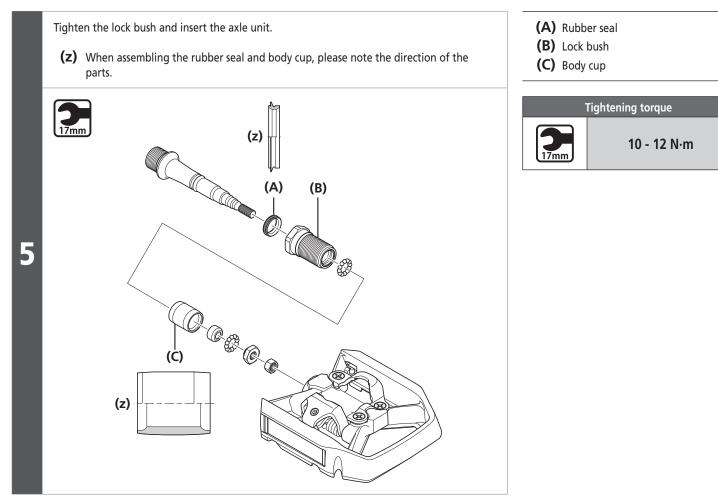
MAINTENANCE

Axle unit

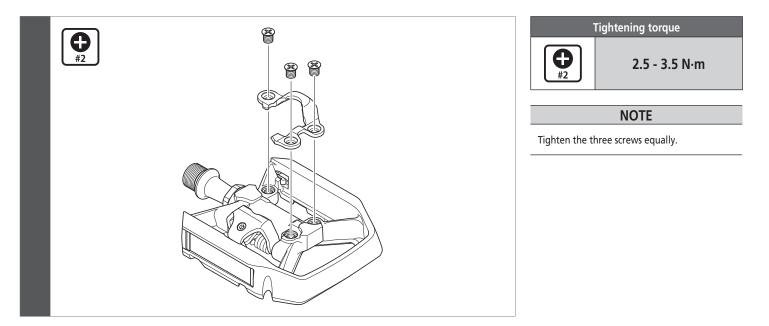


MAINTENANCE

Replacement of the body cover



Replacement of the body cover





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Please note: specifications are subject to change for improvement without notice. (English) @ Aug. 2016 by Shimano Inc. HTR