**SERVICE INSTRUCTIONS SI-4220E**

**PD-M515 SPD Pedals**

Before use, read these instructions carefully, and follow them for correct use.

**WARNING**
- SPD Pedals are designed so that you release them only when you intend to release. They are not designed to release automatically at times such as when falling off the bicycle. This is a safety measure to prevent you from losing balance and falling off the bicycle as a result of your feet becoming accidentally released from the pedals.
- Use only SPD shoes with this product. Other types of shoes may not release from the pedals, or may release unexpectedly.
- Use only Shimano cleats (SM-SH51 / SM-SH52 / SM-SH55) and tighten the mounting bolts securely to the shoes.
- 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 the pedal unit so you can do so naturally and with minimal effort.
- Ride on level ground first until you become adept at engaging and releasing your shoes from the pedals.
- Before riding, adjust the spring tension of the pedals to your liking.
- 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 corner, 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/cleat when riding in adverse conditions. Keep cleats and bindings clean and free from dirt to ensure good engagement and release.
- Remember to check the cleats periodically for wear. When the cleats are worn, replace them. Always check the spring tension after replacing the pedal cleats and before riding.
- Obtain and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause serious injury to the rider. We strongly recommend you only use genuine Shimano replacement parts.

**BE SURE TO READ AND FOLLOW THE ABOVE WARNINGS CAREFULLY!**

**WARNING**
- If the warnings 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.

An optional reflector kit (SM-PD21) is available. Please contact a professional dealer for details.

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**Cleat types and using the pedals**

**WARNING**
- Do not use the pedals and cleats in any way other than as described in these Service Instructions. These cleats are designed to engage and release from the pedals when the cleats and pedals are facing forward. See below for instructions on how to install the cleats. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY.

Both single release mode cleats (SM-SH51 / SM-SH52) and multiple release mode cleats (SM-SH55) are available for use with these pedals. Each type of cleat has its own distinctive features, so be sure to read the Service Instructions carefully and select whichever type of cleat best suits your riding style and the terrain and riding conditions which you will encounter.

**Engaging the cleats with the pedals**

Press the cleats into the pedals with a forward and downward motion.

**Releasing the cleats from the pedals**

The method of release varies according to the type of cleats you are using.

**Single release mode cleats:**
- **SM-SH51** / **SM-SH52** (black / Optional accessory)
  - These cleats only release when the heel is twisted outward.
  - You will not release if the heel is twisted in any other direction.
  - You are able to apply upward force to the pedal, since they will not release unless the foot is twisted outward.

**Multiple release mode cleats:**
- **SM-SH55 (silver / Optional accessory)**
  - The cleats can be released by twisting in any direction.
  - Because the cleats can also be released by lifting your heel, they may become accidentally released when applying upward force on the pedals.
  - These cleats should not be used for riding style which may involve pulling up on the pedals or for activities, such as jumping, in which pulling forces are applied to the pedals causing possible release of the cleats.
  - Although the cleats can be released by twisting your heels in any direction, or by lifting, they will not necessarily release if you lose your balance. Accordingly, for places and conditions where it looks as though you might need to stop riding, (for example, when doing a U-turn, nearing an intersection, riding uphill or turning a blind curb), be sure to read the service instructions carefully and by counting the number of turns of the adjustment bolts. The spring tension can be adjusted in three steps for each turn of the adjustment bolt.

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**Attaching the cleats**

1. With a pair of pliers or a similar tool, pull off the rubber cover to expose the cleat mounting holes.

2. The cleats have an adjustment range of 20 mm front to back and 5 mm right to left. IZM. Printed in Malaysia

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**Tension indicator**

- **Tension indicator**
  - Use a 15 mm spanner to mount the pedals on the crank arms. The rubber cover for cleat mounting holes.
  - The tension indicator becomes larger when the bolt is turned all the way clockwise, it will suddenly become hard to turn. Do not force the adjustment bolt to the point. When the bolt is turned counterclockwise, the spring tension decreases and the red part of the tension indicator can no longer be seen, do not turn the bolt counterclockwise any further.

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**Adjusting the spring force of the binding**

The spring force is adjusted by means of adjustment bolts. The adjustment bolts are located behind each of the bindings, and there are two adjustment bolts on each pedal. Equalize the tensions referring to the tension indicators and by counting the number of turns of the adjustment bolts. The spring tension can be adjusted in three steps for each turn of the adjustment bolt.

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**Cleat replacement**

Cleats wear out over time and must be replaced. Replace your cleats when you find it difficult to engage or release.

If you do not maintain your shoes and cleats in good condition, 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.

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**BE SURE TO READ AND FOLLOW THE ABOVE WARNINGS CAREFULLY!**

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**Adjusting the cleat position**

The cleat has an adjustment range of 20 mm front to back and 5 mm right to left. After provisionally tightening the cleat mounting bolts, use a 4 mm Allen key.

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**Mounting the pedals on the crank arms**

Use a 15 mm spanner to mount the pedals on the crank arms. The right pedal has a right-hand thread; the left pedal has a left-hand thread.

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**Footwear seal**

The waterproof seal is supplied with Shimano shoes which require this step to be carried out.

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**Adjusting the spring force of the release**

The spring force can help to prevent accidental release.

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**CLEAT STANDARD**

Shimano recommends a specific spring force for each of the cleats. The spring force is determined by the powdering material used on the cleats. Shimano recommends using the spring force that provides the best performance for the intended use of the cleats. The powdering material used on the cleats should be selected based on the cleat type and the intended use of the cleats.

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**Pay attention to the mark:**

- **R:** right pedal
- **L:** left pedal

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**WATER-PROOF SEAL**

Shimano recommends using water-resistant materials for the water-proof seal. Shimano also recommends using water-resistant materials for the water-proof seal. Shimano recommends using water-resistant materials for the water-proof seal.

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**Please note:**

Specifications are subject to change for improvement without notice. (English)