SI-46F0A-002-00 **General Safety Information**



A WARNING – To avoid serious injuries:

 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-SH56) 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 its pedal until 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 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 clear of dirt and debris to ensure 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. If you do not maintain both your shoes and
- cleats in good condition, release and engagement to the pedals could become unpredictable or difficult, which could result in severe injury.
- Be sure to attach reflectors to the bicycle when riding at night. Do not continue riding the bicycle if the reflectors are dirty or damaged, otherwise it becomes more difficult for oncoming vehicles to see you.
- 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 only using genuine Shimano replacement parts.
- If you have any questions concerning your pedals, contact a professional dealer.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.
- BE SURE TO READ AND FOLLOW THE ABOVE WARNINGS CAREFULLY.
- 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.

NOTE:

- Before riding the bicycle, check that there is no play or looseness in the connection. Also, be sure to retighten the crank arms and pedals at periodic intervals
- In addition, if pedaling performance does not feel normal, check this once more.
- An optional reflector set (SM-PD60) is available. Please contact a professional dealer for details

- · Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- For maximum performance we highly recommend Shimano lubricants and maintenance products

Cleat types and using the pedals

Releasing the cleats from the pedals

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

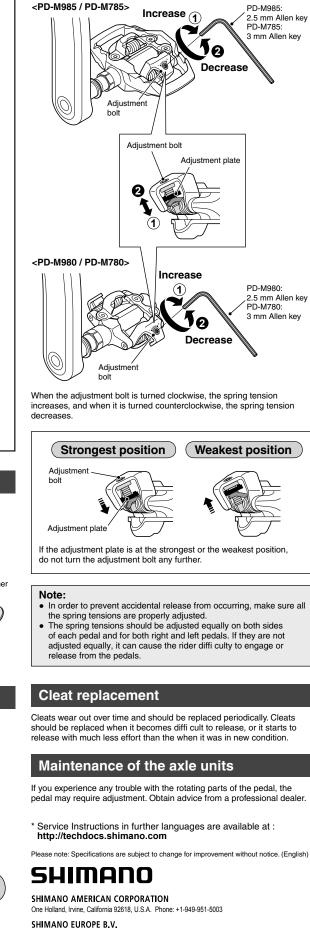
·	(Check the model number and color of your cleats to determine the	0
WARNING Do not use the pedals and cleats in any way other than	 Single release mode cleats: SM-SH51 (black) 	Multiple release mode cleats: SM-SH56 (silver, gold/Optional accessory)
as described in these Service Instructions. The cleats are designed to engage and release from the pedals when	These cleats only release when the heel is twisted outward . They will not release if the heel is twisted in any other direction.	The cleats can be released by twisting in any direction.
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. Single release mode cleats (SM-SH51) and multiple	You are able to apply upward force to the pedal, since they will not release unless the foot is twisted outward.	Because the cleats can also be released by lifting your heel, they become accidentally released when applying upward force on th pedals. These cleats should not be used for riding style which may involv pulling up on the pedals or for activities, such as jumping, in which pulling forces are applied to the pedals causing possible release the pedals.
release mode cleats (SM-SH56) 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	The cleats will not necessarily release if you lose your balance. Accordingly, for places and conditions where it looks as though you may lose balance, make sure that you have suffi cient time to release the cleats beforehand.	Although the cleats can be released by twisting your heels in any direction or by lifting, they will not necessarily release if you lose balance. Accordingly, for places and conditions where it looks as though y may lose balance, make sure that you have suffi cient time to relet the cleats beforehand.
encounter. Other types of cleats such as single release mode cleats (SM-SH52) and multiple release mode cleats (SM-SH55) cannot be used, as they do not provide stable enough step-out performance or suffi cient holding force.	When you are pedaling vigorously, your heel may inadvertently twist outward and this may cause the cleat to release accidentally. If the cleat releases by accident, you may fall off the bicycle and serious injury may result. You can help to prevent this by adjusting the amount of force required to release the cleats, and you should practice until you are accustomed to the amount of force and the angle required to release the cleats.	If the cleats release by accident, you may fall off the bicycle and serious injury may result. If the features of multiple release mode cleats are not suffi ciently understood and if they are not used correctly, then they may rele accidentally with a greater frequency than for single release mod cleats. You can help to prevent this by adjusting the amount of force req to release the cleats in any direction, and you should practice un
Engaging the cleats with the pedals Press the cleats into the pedals with a forward and downward motion.	Single release mode	you are accustomed to the amount of force and the angle require release.
	Release the cleats from the pedals by twisting your heels outward . Note: It is necessary to practice releasing until you become accustomed to the technique.	Multiple release mode Release the cleats from the pedals by twisting your heels in any direction. Note: In multiple release mode, it is necessary to practice releasing until you become accustomed to the technique. Releasing by lifting your heel requires particular practice.
SI-46F0A-002	3. From the bottom of the shoe, position a cleat and then a cleat adapter over the cleat holes. The cleats are compatible with both left and right	Waterproof seal
PD-M985 PD-M980 PD-M785 PD-M780 SPD Pedals	pedals. Provisionally tighten the cleat mounting bolts. Provisional tightening torque for cleat mounting bolts: 2.5 N•m {22 in. lbs.}	Remove the sockliner and attach the waterproof seal. Note: The waterproof seal is supplied with Shimano shoes which require this step to be
chnical Service Instructions	4 mm Allen key Cleat mounting bolts Cleat adapter Cleat	carried out.
taching the cleats		
pose the cleat mounting holes. Note: This step may not be necessary depending on the type of shoes. Rubber cover for	Front Constant	Mounting the pedals on the crank a Use an 8mm Allen key to mount the pedals on the crank arms. The right pedal has a right-hand thread; the left pedal has a left thread
Remove the sockliner and position a cleat nut over the oval holes.	Adjusting the cleat position 1. The cleat has an adjustment range of 20 mm front to back and 5 mm right to left. After provisionally tightening the cleat, practice engaging and releasing, one shoe at a time. Readjust to determine the best cleat position. The binding for PD-M980 / PD-M780 is positioned 1.4mm further back than those of PD-M985 / PD-M785 / PD-M970 / PD-M770 etc.	thread.
depending on the type of shoes.	 Please take this into consideration when determining your best cleat position. After you have determined the best cleat position, firmly tighten the cleat mounting bolts with a 4 mm Allen key. 	• Tightening torque: 35 – 55 N-m {305 – 479 in.



Tightening torque: 5 – 6 N•m {44 – 52 in. lbs.}

Adjusting the spring tension 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 by referring to the adjustment plates and by counting the number of turns of the adjustment bolts. The spring tension can be adjusted in four steps for each turn of the adjustment bolt.



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