

**FC-6500**  
**FC-6503**  
**BB-6500**

Front Chainwheel

Bottom Bracket

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

**Product specifications**

**Front Chainwheel**

Model number	FC-6500	FC-6503
SG chainwheel teeth*	A-53 / 42T, B-53 / 39T, B-52 / 39T	52 / 42 / 30T
Bolt circle diameter	130 mm	130 / 74 mm
Crank length	165 mm, 167.5 mm, 170 mm, 172.5 mm, 175 mm	
Pedal threads	B.C. 9/16" x 20T.P.I. (English thread)	
Applicable chain	CN-HG92 / CN-7700	
Applicable bottom bracket	BB-6500	

**Bottom Bracket**

Model number	BB-6500	
Type	double	Triple
Spindle length	109.5 mm	118.5 mm
Chain line	43.5 mm	45 mm
Thread dimensions	68 mm (1.37 X 24 T.P.I) 70 mm (M36 X 24 T)	68 / 73 mm (1.37 X 24 T.P.I)

**Note**

- Be sure to use only the FC-6500 / 6503 chainrings. If any other type of chainrings are used, the distance between the chainrings will be incorrect and the chain might slip off and get caught in between them.
- \*If the smaller chainring has 39 teeth, use B-53 or B-52 as the larger chainring. If the smaller chainring has 42 teeth, use A-53 as the larger chainring.
- Be sure to use only the applicable chain and bottom bracket mentioned above.
- For any questions regarding methods of handling or maintenance, please contact the place of purchase.

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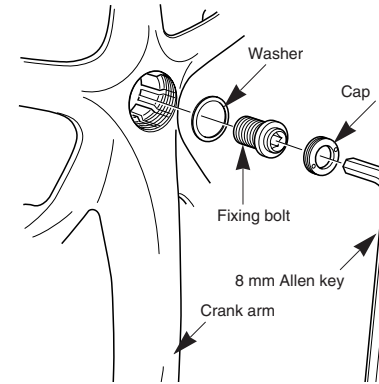
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Please note: specifications are subject to change for improvement without notice. (English)  
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**Installation of the front chainwheel**

1. Place the crank arm onto the bottom bracket spindle so that it meshes with the serrations on the spindle.
2. Install the washer and fixing bolt and tighten the fixing bolt.



Tightening torque:  
35 - 50 Nm {305 - 435 in. lbs.}

3. Lastly, attach the cap.

Tightening torque:  
5 - 7 Nm {44 - 60 in. lbs.}

- The crank arm can be removed simply by turning the fixing bolt counterclockwise.

**Note:**

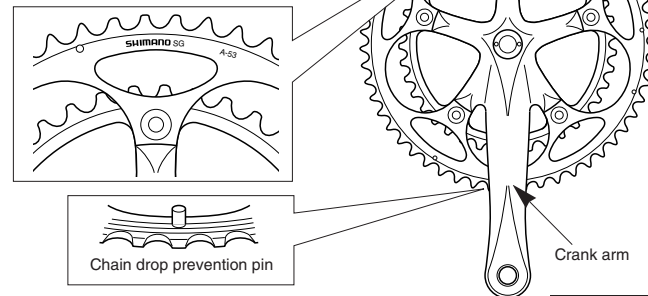
If installing a crank arm which has already been used before, the tightening torque for the cap should also be checked.

Apply grease to the reverse side of the cap and to the contact surface of the fixing bolt.

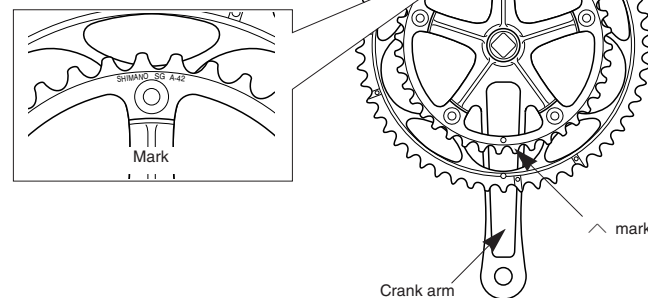
**Installation of the chainrings**

Smooth shifting will not be possible if the chainrings are incorrectly installed, so be sure to install the chainrings in the correct positions.

With the marked surface of the larger chainring facing out, set the larger chainring so that the chain drop prevention pin is lined up with the crank arm position.

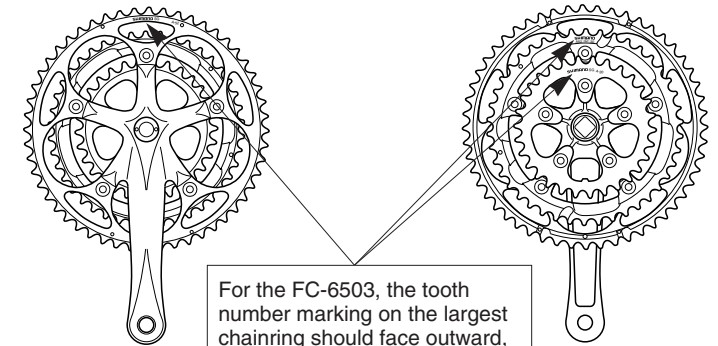


With the marked surface of the smaller chainring facing away from the crank arm, set the chainring so that the ^ mark is lined up with the crank arm position.



Outer side

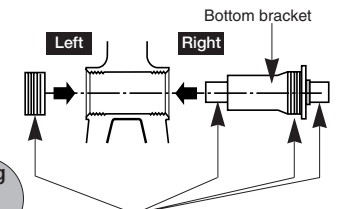
Inner side



For the FC-6503, the tooth number marking on the largest chainring should face outward, and the markings on the intermediate and smallest chainrings should face inward.

**Installation of the Bottom Bracket**

1. Use the special tool (TL-UN74-S) to install the bottom bracket. First install the main body, then the adapter.



Adapter/bottom bracket tightening torque:  
50 - 70 Nm {435 - 608 in. lbs.}

Apply grease to the bottom bracket before installing it.