

**FC-5501 / FC-5502**
FC-5504 / FC-5505

Front chainwheel

BB-5500

Bottom Bracket

General Safety Information

⚠ WARNING

- Be careful not to let the cuffs of your clothes get caught in the chain while riding, otherwise you may fall off the bicycle.
- Check that the tension of the chain is correct and that the chain is not damaged. If the tension is too weak or the chain is damaged, the chain should be replaced. If this is not done, the chain may break and you may fall off the bicycle.
- Check that there are no cracks in the crank arms before riding the bicycle. If there are any cracks, the crank arm may break and you may fall off the bicycle.
- Obtain, read and carefully service instructions when installing parts. A loose, worn, or damaged parts may cause injury to the rider. We strongly recommend that only genuine Shimano replacement parts be used.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

Note

- Be sure to use only the FC-5501 / FC-5502 / FC-5504 / FC-5505 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, B-52 or B-50 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.
- Check that there is no looseness in any joints or connections before riding the bicycle. (BB-FC, FC-PD)
- If you feel any looseness in the bottom bracket axle, the bottom bracket should be replaced.
- In addition, if pedaling performance does not feel normal, check this once more.
- Do not wash the bottom bracket with high-pressure jets of water.
- Apply grease to the bottom bracket before installing it.
- To ensure the best performance, be sure to use only the specified type of chain. The wide type of chain cannot be used.
- If the chain keeps coming off the chainrings during use, replace the chainrings and the chain.
- You should periodically wash the chainrings in a neutral detergent and then lubricate them again. In addition, cleaning the chain with neutral detergent and lubricating it can be an effective way of extending the useful life of the chainrings and the chain.
- Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.
- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

Specifications

Front Chainwheel

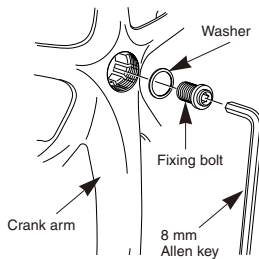
Model number	FC-5501 / FC-5502	FC-5504 / FC-5505
SG chainwheel teeth *	A-53 / 42T, B-53 / 39T, B-52 / 39T, B50 / 39T	52 / 42 / 30T
Bolt circle diameter	130 mm	130 / 74 mm
Crank arm length	165, 167.5, 170, 172.5, 175 mm	165, 170, 175 mm
Pedal threads	B.C. 9/16" x 20T.P.I. (English thread)	
Applicable chain	CN-HG73 / CN-HG93 / CN-7701	
Applicable bottom bracket	BB-5500	

Bottom Bracket

Model number	BB-5500	
Type	Double	Triple
Spindle length	109.5 mm	118.5 mm
Chain line	43.5 mm	45 mm
Shell width (Thread dimensions)	68 mm (1.37 X 24 T.P.I.) 70 mm (M36 X 24 T.P.I.)	

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.

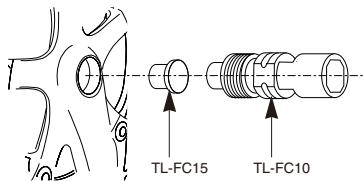


Tightening torque:
35 - 50 N·m {305 - 435 in. lbs.}

Replacing the front chainwheel

Use the special plug tool (TL-FC15) to remove the FC-5501 / FC-5502 / FC-5504 / FC-5505 crank arm.

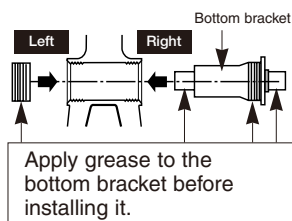
1. Turn the crank arm fixing bolt counterclockwise to remove the screw.
2. Insert the TL-FC15 into the hole of the bottom bracket axle.
3. Then, screw the cotterless crank arm extractor (TL-FC10) into the crank arm, and then remove the crank arm in the same way as normal.



Installation of the Bottom Bracket

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

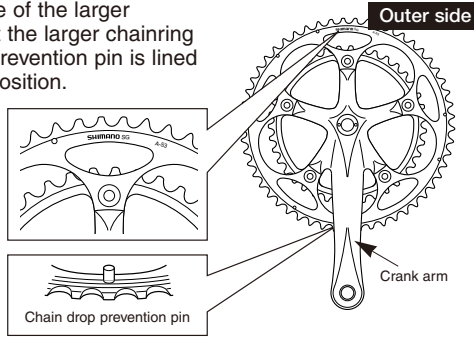
**Adapter/bottom bracket
tightening torque:**
50 - 70 N·m {435 - 608 in. lbs.}




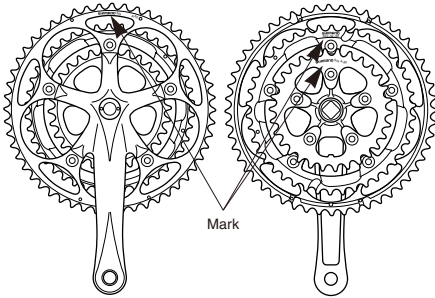
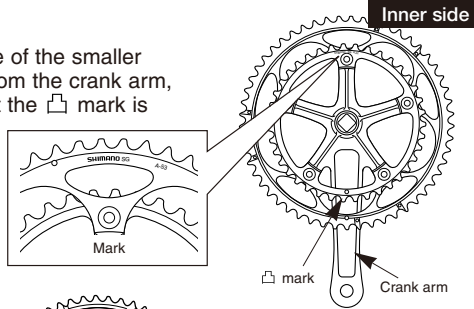
Installation of the chainrings

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.



For the FC-5504, the tooth number marking on the largest chainring should face outward, and the markings on the intermediate and smallest chainrings should face inward.

SHIMANO

SHIMANO AMERICAN CORPORATION
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE HOLDING B.V.
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai, Osaka 590-8577, Japan

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