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.
- The two left crank arm mounting bolts should be tightened alternately in stages rather than each bolt being fully tightened all at once. Use a torque wrench to check that the final tightening torques are within the range of 12 - 15 N·m.
- Furthermore, after riding approximately 100 km (60 miles), use a torque wrench to recheck the tightening torques. It is also important to periodically check the tightening torques. If the tightening torques are too weak or if the mounting bolts are not tightened alternately in stages, the left crank arm may come off and the bicycle may fall over.
- 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 and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause injury to the rider. We strongly recommend only using genuine Shimano replacement parts.
- · Obtain and read the service instructions carefully prior to installing the parts. If adjustments are not carried out correctly, the chain may come off and this may cause you to fall off the bicycle which could result in serious injury.
- · Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

Note

- The marks on the left and right crank arms for the FC-6600 and FC-6603 will be either FC-6600-A or FC-6603-A marks, or FC-6600 or FC-6603 marks. Make sure that the marks on the left and right crank arms match each other.
- Make sure that the chainring combination matches the front chainwheel tooth configuration in the Product specifications table. If other combinations are used, the distance between the chainrings will be incorrect and the chain might slip off and get caught in between them.
- . When the chain is in the position shown in the illustration, the chain may contact the front chainrings or front derailleur and generate noise. If the noise is a problem, shift the chain onto the next-larger rear sprocket or the one after.
- If the bottom bracket shell is not parallel, gear shifting performance will drop.
- Before riding the bicycle, check that there is no play or looseness in the connection. Also, be sure to retighten the crank arm fixing bolt at periodic intervals. (BB-FC, FC-PD)
- If you feel any looseness in the bearings, 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 left and right adapters before installing them.
- 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.

Technical Service Instructions

FC-6600 FC-6601-G FC-6603 FC-6604-G

Front chainwheel

SI-1G30E-001

Specifications

Model number	FC-6600 / FC-6601-G	FC-6603 / FC-6604-G
Chainwheel tooth combination	52 - 39T, 53 - 39T	52 - 39 - 30T
Bolt circle diameter	130 mm	130 mm / 74 mm
Crank arm length	165, 170, 172.5, 175mm	
Pedal threads	B.C. 9/16" x 20T.P.I. (English thread)	
Applicable chain	CN-6600	
Chain line	43.5 mm	45 mm
Bottom bracket shell width (Thread dimensions)	68 mm (1.37 X 24 T.P.I.) 70 mm (M36 X 24 T.P.I.)	

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.

Chain drop prevention pir

Mark

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

position.



Inner side

number marking on the largest chainring is facing outward and the markings on the intermediate and smallest chainrings are facing inward, and also so that the projections are aligned with the crank arm.

clockwise for

Installation of the front chainwheel

Follow the procedure in the figure.

- 1, 2 Use the special tool TL-FC32 to install the right adapter (counterclockwise thread) and the left adapter (clockwise thread).
 - Tightening torque: 35 50 N·m {305 435 in. lbs.}
- Insert the right crank unit
- Set section A of the left crank into the axle of the right crank unit where the groove is wide. (Insert a spacer when installing the FC-6603 / 6604-G left crank unit.)
- Use the TL-FC16 to tighten the cap. Tightening torque: 0.7 - 1.5 N·m {6 - 13 in. lbs.}
- Push in the stopper plate and check that the plate pin is securely in place, and then tighten the bolt of the left crank arm.

Note: Each of the bolts should be evenly and equally tightened to 12 - 15 N·m {106 - 132 in. lbs.}.

70 mm [M36] bottom brackets Wide groove area

For the FC-6603 / 6604-G. insert a spacer.

Bottom bracket shell

Note:

Set the stopper plate in the right direction as shown in illustration.



Rear

sprockets