

# SERVICE INSTRUCTIONS

**FC-M730-SG FC-MT60-SG**  
**FC-M550 FC-M500**  
**FC-M400 FC-M300**  
**FC-M200**

## Front Chainwheel

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

### Note

If used with STI, be sure to use the following product combination.

- Front derailleur.....FD-M735/FD-M650/FD-M550/  
FD-M500/FD-M400/FD-M300/  
FD-M201
- Front chainwheel.....FC-M730-SG/FC-MT60-SG/  
FC-M550/FC-M500/FC-M400/  
FC-M300/FC-M200
- Chain.....Hyperglide compatible narrow  
type UG chain

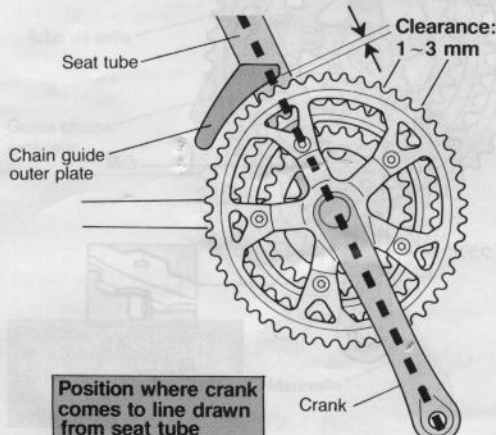
**Chains other than the Shimano narrow-type chain cannot be used.**

Note that SG gear tooth number combinations are restricted to those shown below.

- SG Biopace.....48T × 38T × 28T, 46T × 36T × 26T
- SG Round gear....48T × 38T × 28T, 46T × 36T × 24T

Note the following cautions regarding the SG Biopace chain ring.

- Use a front derailleur that has a capacity that is equivalent to the difference of number of teeth between the front chainwheel's large gear (SG) and small gear (SG), plus 2 teeth.
- The installation position of the front derailleur should be where the crank comes to the position of an imaginary line drawn from the seat tube. Then adjust so that the clearance between the large gear and the chain guide outer plate is 1~3 mm and install the front derailleur.



**Tightening torque to front chainwheel axle:**  
 Bolt type: 350 ~ 450 kgfcm (322 ~ 414 in.lbs.)  
 Nut type: 400 ~ 500 kgfcm (368 ~ 460 in.lbs.)

# Specifications

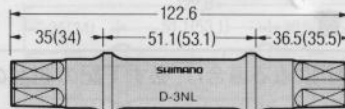
## Front chainwheel

Bolt circle diameter	110 mm (outer, middle) 74 mm (inner)
Applicable chain	1/2" × 3/32" narrow type
Chain line	47 ~ 47.5 mm

The chain line indications are our standard established dimensions.

## Hanger axle set

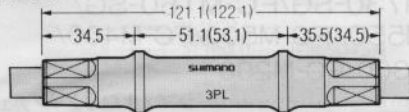
- For FC-M730-SG and FC-MT60-SG



Unit: mm Figures in ( ) are for 70-mm width.

Width 68 mm: D-3NL  
 Width 70 mm: D-5NL

- For FC-M550, FC-M500, FC-M400, FC-M300 and FC-M200.



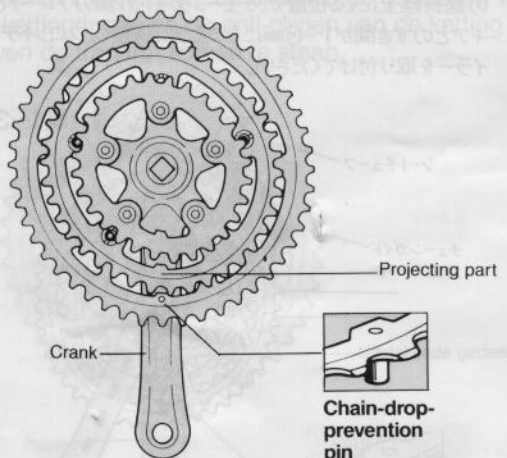
Unit: mm Figures in ( ) are for 70-mm width.

Width 68 mm: 3PL  
 Width 70 mm: 5PL

## Installation of the chain ring

The benefits of the SG gear will not be realized if the chain ring is installed in the wrong position. Be sure the chain ring is properly installed.

In addition, position so that, when looking from the rear side, the projecting part of the chain ring and the chain-drop-prevention pin are directly behind the crank arm.



Please note: specifications are subject to change for improvement without notice. (English)

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