

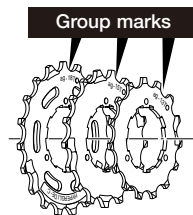
## General Safety Information

### ⚠ WARNING

- Check that the wheels are fastened securely before riding the bicycle. If the wheels are loose in any way, they may come off the bicycle and serious injury may result.
- 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

- Always be sure to use the sprocket set bearing the same group marks. Never use in combination with a sprocket bearing a different group mark.
- If the wheel becomes stiff and difficult to turn, you should lubricate it with grease.
- Do not apply any lubricant to the inside of the hub, otherwise the grease will come out.
- You should periodically wash the sprockets in a neutral detergent and then lubricate them again. In addition, cleaning the chain with neutral detergent and lubricating it can be a effective way of extending the useful life of the sprockets and the chain.
- If the chain keeps coming off the sprockets during use, replace the sprockets and the chain.
- Parts are not guaranteed against natural wear or deterioration resulting from normal use.



## Technical Service Instructions

SI-3B10B

# FH-2200

Freehub

## Specifications

### Freehub

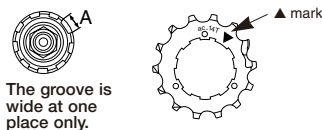
Model No.	FH-2200
Gears	8
No. of spoke holes	32 / 36
Overlock nut dimensions	130 mm

## Cassette sprocket

Model No.	CS-HG50-8	
Sprocket tooth configuration	S 12T - 21T	12T, 13T, 14T, 15T, 16T, 17T, 19T, 21T
	T 13T - 23T	13T, 14T, 15T, 16T, 17T, 19T, 21T, 23T
	U 12T - 23T	12T, 13T, 14T, 15T, 17T, 19T, 21T, 23T
	V 13T - 26T	13T, 14T, 15T, 17T, 19T, 21T, 23T, 26T
	W 12T - 25T	12T, 13T, 15T, 17T, 19T, 21T, 23T, 25T

## Installation of the sprockets

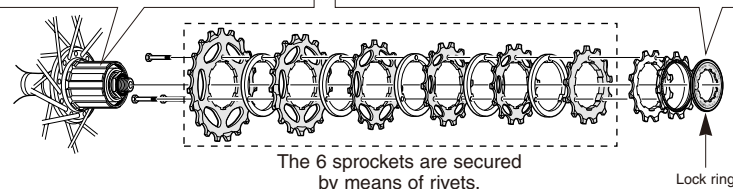
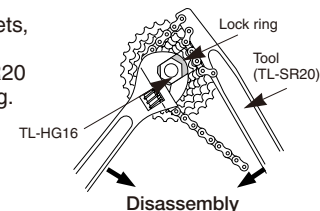
For each sprocket, the surface that has the group mark should face outward and be positioned so that the triangle (▲) mark on each sprocket and the A part (where the groove width is wide) of the freewheel body are aligned.



- For installation of the sprockets, use the special tool (TL-HG16) to tighten the lock ring.

**Tightening torque:**  
30 - 50 N·m {261 - 434 in. lbs.}

- To replace the sprockets, use the special tool (TL-HG16) and TL-SR20 to remove the lock ring.



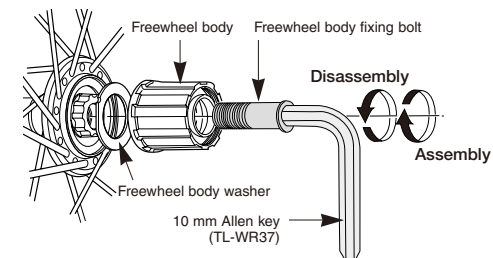
## Replacement of the freewheel body

After removing the hub axle, remove the freewheel body fixing bolt (inside the freewheel body), and then replace the freewheel body.

### Note:

Do not attempt to disassemble the freewheel body, because it may result in a malfunction.

**Tightening torque:**  
35 - 50 N·m {305 - 434 in. lbs.}



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