

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 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.
- 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 mark. 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 an 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-3BJ0C

**FH-3300**

Freehub

Specifications

Freehub	
Model No.	FH-3300
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
	T	13T - 23T
	U	12T - 23T
	V	13T - 26T
	W	12T - 25T
		12T, 13T, 14T, 15T, 16T, 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.

The groove is wide at one place only.

- For installation of the HG sprockets, use the special tool (TL-LR15) to tighten the lock ring.
- To replace the HG sprockets, use the special tool (TL-LR15) and TL-SR20 to remove the lock ring. Install the TL-SR20 to the largest sprocket.

Lock ring  
Tool (TL-SR20)  
Disassembly

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

The 6 sprockets are secured by means of rivets.

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.}

Freewheel body  
Freewheel body fixing bolt  
Disassembly  
Assembly  
Freewheel body washer  
10 mm Allen key (TL-WR37)

SHIMANO

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