General Safety Information



A 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 the bicycle to fall over and serious injury may occur as a result. 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 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.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

Technical Service Instructions

SI-3B10B-001

Group marks

FH-2200

Freehub

Specifications

Freehub

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

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* Service Instructions in further languages are available at : http://techdocs.shimano.com

Cassette sprocket

Model No.			CS-HG50-8
Sprocket tooth configuration	S	12T - 21T	12T, 13T, 14T, 15T, 16T, 17T, 19T, 21T
	Т	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

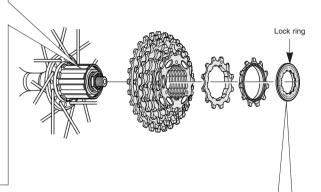
Installation of the sprockets

For each sprocket, the surface that has the group mark should face outward and be positioned so that the triangle (**A**) 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.

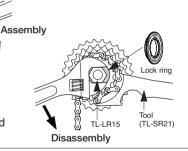




For installation of the HG sprockets, use the special tool (TL-LR15) to tighten the lock ring.

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

To replace the HG sprockets, use the special tool (TL-LR15) and TL-SR21 to remove the lock ring.



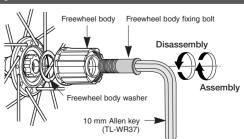
Replacement of the freewheel body

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.}



Please note: specifications are subject to change for improvement without notice. (English) © May 2010 by Shimano Inc. XBC SZK Printed in Malaysia.