

General Safety Information

⚠ WARNING

- 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.

⚠ CAUTION

- If the CS-HG61 cassette sprocket (12-36T) is installed onto a mountain bike, a large gear ratio between front and rear rings can be obtained so that the mountain bike can ride up steep slopes, but this will also place a heavy load on the rear hub. Shimano provides a rear hub which can provide enough strength and durability if using this cassette sprocket in combination with a front chainwheel set (22-32-44T). If using the cassette sprocket in combination with any hub other than the FH-M629/FH-M529, the hub may become damaged. Check the Shimano website for the most up-to-date information regarding compatible Shimano hubs. (<http://www.shimano.com>)

Note

- The FH-M629/FH-M529 is compatible with the CS-HG61 (12-36T).
- Use the cassette sprocket in combination with 9-speed chains (CN-7701 / HG93 / HG73 / HG53).
- An 11T and a 12T lock ring are available for use with the CS-HG61. Use whichever lock ring matches the sprocket configuration.
- 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-1ZX0A-003

Cassette sprocket

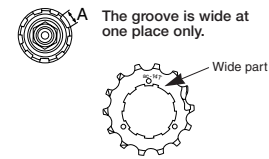
Specifications

Cassette sprocket tooth combination

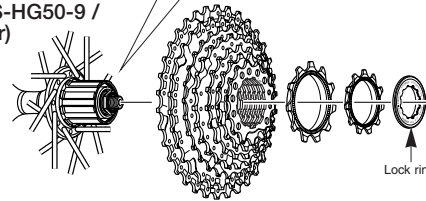
| Model number | Group name | Gears | Tooth combination | |
|--------------|------------------------|-------|-------------------|-------------------------------------|
| CS-HG61 | CS-HG50-9 CS-HG30-9 | ar | 9 | 11, 12, 14, 16, 18, 21, 24, 28, 32T |
| | | au | 9 | 11, 13, 15, 17, 20, 23, 26, 30, 34T |
| | | bg | 9 | 11, 12, 13, 14, 16, 18, 21, 24, 28T |
| | | bh | 9 | 12, 14, 16, 18, 21, 24, 28, 32, 36T |

Installation of the sprockets

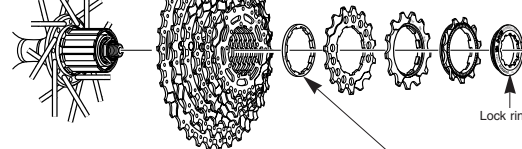
For each sprocket, the surface that has the group mark should face outward and be positioned so that the wider part of each sprocket and the A part (where the groove width is wide) of the freewheel body are aligned.



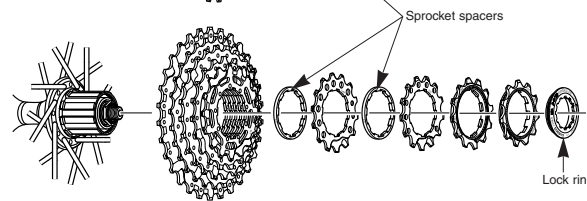
CS-HG61 / CS-HG50-9 /
CS-HG30-9 (ar)



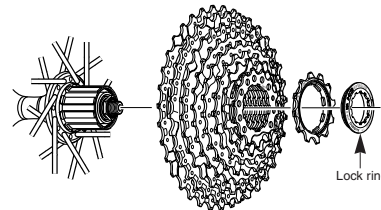
CS-HG61 / CS-HG50-9 /
CS-HG30-9 (au)



CS-HG61 (bg)



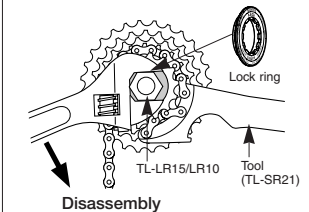
CS-HG61 (bh)



- For installation of the sprockets, use the special tool (TL-LR15 / LR10) to tighten the lock ring.

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

- To replace the sprockets, use the special tool (TL-LR15 / LR10) and TL-SR21 to remove the lock ring.



SHIMANO

SHIMANO AMERICAN CORPORATION
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-shi, Osaka 590-8577, Japan

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

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