

Dealer's Manual

Cassette Sprocket (11-speed)

CS-9000

CS-6800

CS-5800

IMPORTANT NOTICE

- **This dealer's manual is intended primarily for use by professional bicycle mechanics.**

Users who are not professionally trained for bicycle assembly should not attempt to install the components themselves using the dealer's manuals.

If any part of the information on the manual is unclear to you, do not proceed with the installation. Instead, contact your place of purchase or a local bicycle dealer for their assistance.

- Make sure to read all instruction manuals included with the product.
- Do not disassemble or modify the product other than as stated in the information contained in this dealer's manual.
- All dealer's manuals and instruction manuals can be viewed on-line on our website (<http://si.shimano.com>).
- Please observe the appropriate rules and regulations of the country, state or region in which you conduct your business as a dealer.

For safety, be sure to read this dealer's manual thoroughly before use, and follow it for correct use.

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings.

The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.

DANGER

Failure to follow the instructions will result in death or serious injury.

WARNING

Failure to follow the instructions could result in death or serious injury.

CAUTION

Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

TO ENSURE SAFETY

WARNING

- When installing components, be sure to follow the instructions that are given in the instruction manuals. It is recommended to use genuine Shimano parts only. If parts such as bolts and nuts become loose or damaged, the bicycle may suddenly fall over, which may cause serious injury.
In addition, if adjustments are not carried out correctly, problems may occur, and the bicycle may suddenly fall over, which may cause serious injury.
-  Be sure to wear safety glasses or goggles to protect your eyes while performing maintenance tasks such as replacing parts.
- After reading the dealer's manual thoroughly, keep it in a safe place for later reference.

NOTE

Be sure to also inform users of the following:

- If the chain keeps coming off the chainrings during use, replace the chainrings and the chain.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

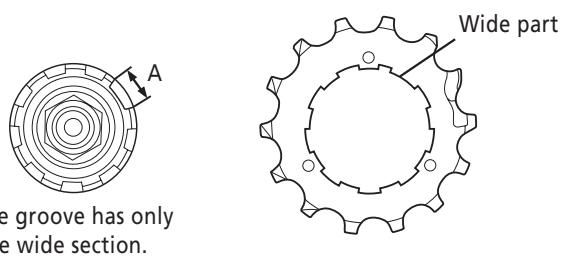
For Installation to the Bicycle, and Maintenance:

- Always use CS-9000/6800/5800 in combination with CN-9000/6800/CN-HG600-11. Other chains cannot be used because the dimensions do not match.
- The gears should be periodically washed with a neutral detergent. In addition, cleaning the chain with neutral detergent and lubricating it can be an effective way of extending the life of the gears and the chain.
- Always use the recommended combination of gears.

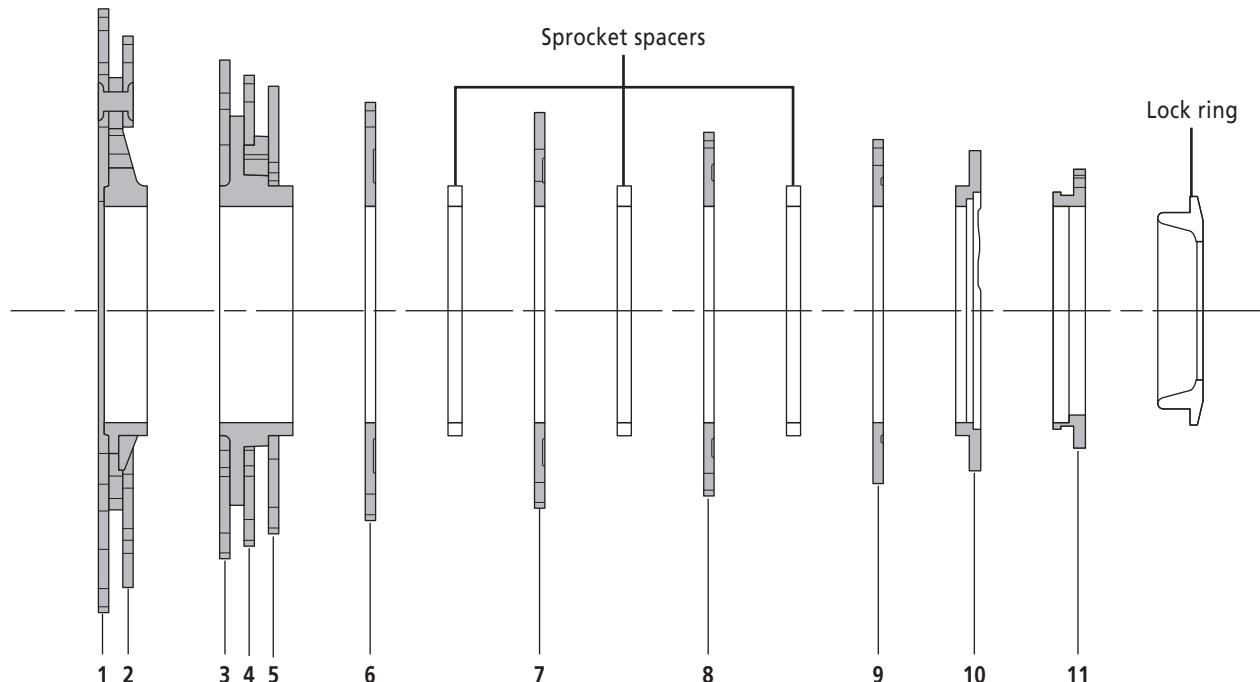
The actual product may differ from the illustration because this manual is intended mainly to explain the procedures for using the product.

INSTALLATION

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



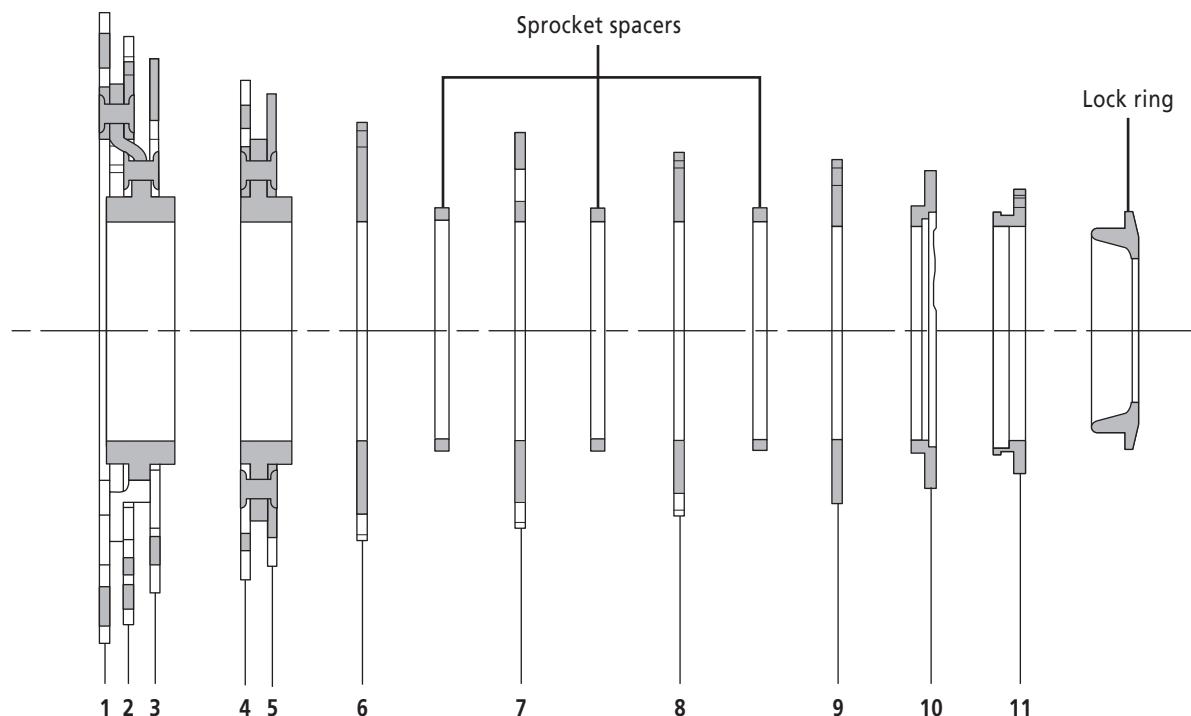
< CS-9000: 11T- 23T, 11T- 25T, 11T- 28T, 12T- 25T, 12T- 28T >



Number	11-23T			11-25T			11-28T		
	Number of teeth	Mark	Spider arm	Number of teeth	Mark	Spider arm	Number of teeth	Mark	Spider arm
1	23	11S 23A		25	11S 25A		28	11S 28A	
2	21	11S 21A	11S 11-23	23	11S 23B		25	11S 25B	11S 11-28
3	19	11S 19A		21	11S 21B		23	11S 23C	
4	18	11S 18A	11S 11-23	19	11S 19B	11S 11-25	21	11S 21C	11S 11-28
5	17	11S 17A		17	11S 17A		19	11S 19C	
6	16	11S 16A		16	11S 16A		17	11S 17B	
7	15	11S 15A		15	11S 15A		15	11S 15A	
8	14	11S 14A		14	11S 14A		14	11S 14A	
9	13	11S 13A		13	11S 13A		13	11S 13A	
10	12	11S 12A		12	11S 12A		12	11S 12A	
11	11	11S 11A		11	11S 11A		11	11S 11A	

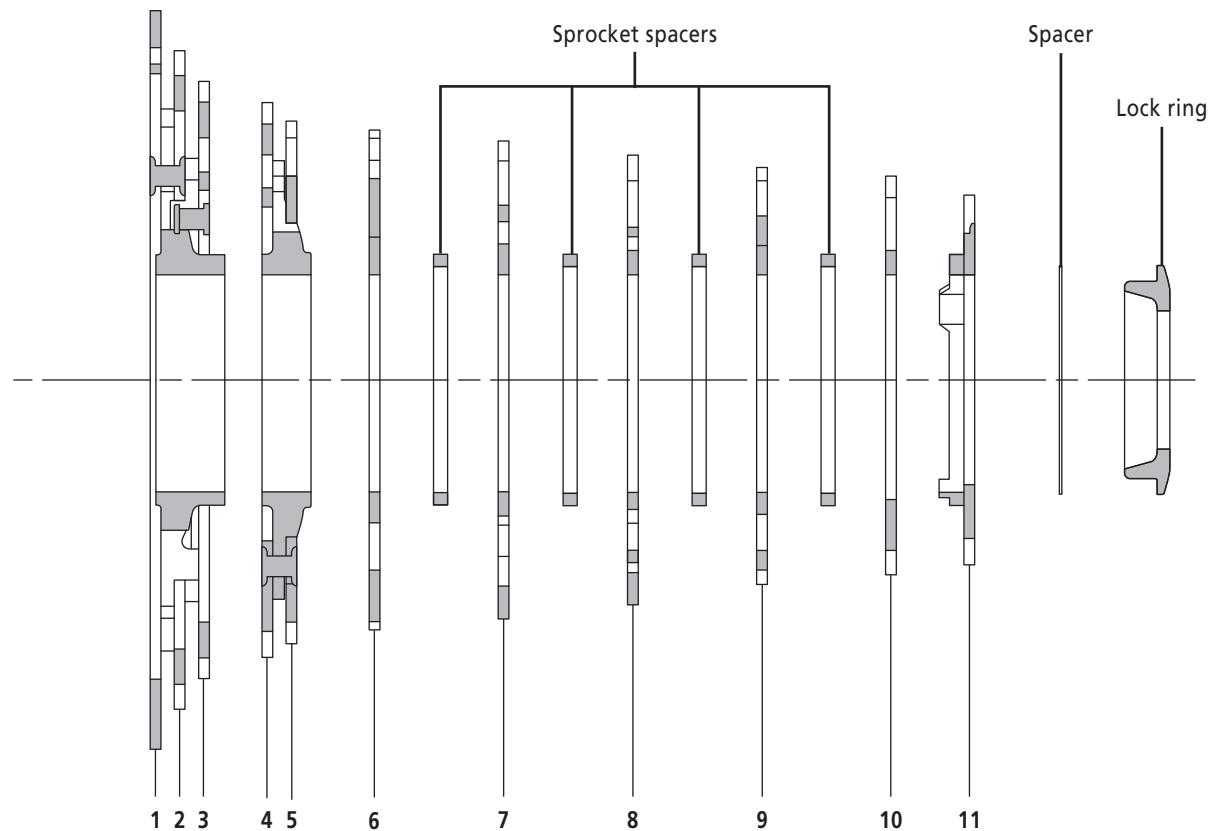
Number	12-25T			12-28T		
	Number of teeth	Mark	Spider arm	Number of teeth	Mark	Spider arm
1	25	11S 25A		28	11S 28A	
2	23	11S 23B	11S 12-25	25	11S 25B	11S 12-28
3	21	11S 21D		23	11S 23C	
4	19	11S 19D	11S 12-25	21	11S 21C	11S 12-28
5	18	11S 18B		19	11S 19C	
6	17	11S 17C		17	11S 17C	
7	16	11S 16A		16	11S 16A	
8	15	11S 15A		15	11S 15A	
9	14	11S 14A		14	11S 14A	
10	13	11S 13B		13	11S 13B	
11	12	11S 12B		12	11S 12B	

< CS-6800: 11T-23T, 11T-25T, 11T- 28T, 11T-32T, 12T-25T >



11-23T				11-25T				11-28T			
Number	Number of teeth	Mark	Spider arm	Number of teeth	Mark	Spider arm	Number of teeth	Mark	Spider arm	Number of teeth	Mark
1	23	11S 23A	11S 11-23	25	11S 25A	11S 11-25	28	11S 28A	11S 11-28	21	11S 21A
2	21	11S 21A		23	11S 23B		25	11S 25B		19	11S 19A
3	19	11S 19A		21	11S 21B		23	11S 23C		18	11S 18A
4	18	11S 18A	11S 11-23	19	11S 19B	11S 11-25	21	11S 21C	11S 11-28	17	11S 17A
5	17	11S 17A		17	11S 17A		19	11S 19C		16	11S 16A
6	16	11S 16A	—	16	11S 16A	—	17	11S 17B	—	15	11S 15A
7	15	11S 15A	—	15	11S 15A	—	15	11S 15A	—	14	11S 14A
8	14	11S 14A	—	14	11S 14A	—	14	11S 14A	—	13	11S 13A
9	13	11S 13A	—	13	11S 13A	—	13	11S 13A	—	12	11S 12A
10	12	11S 12A	—	12	11S 12A	—	12	11S 12A	—	11	11S 11A
11	11	11S 11A	—	11	11S 11A	—	11	11S 11A	—	—	—

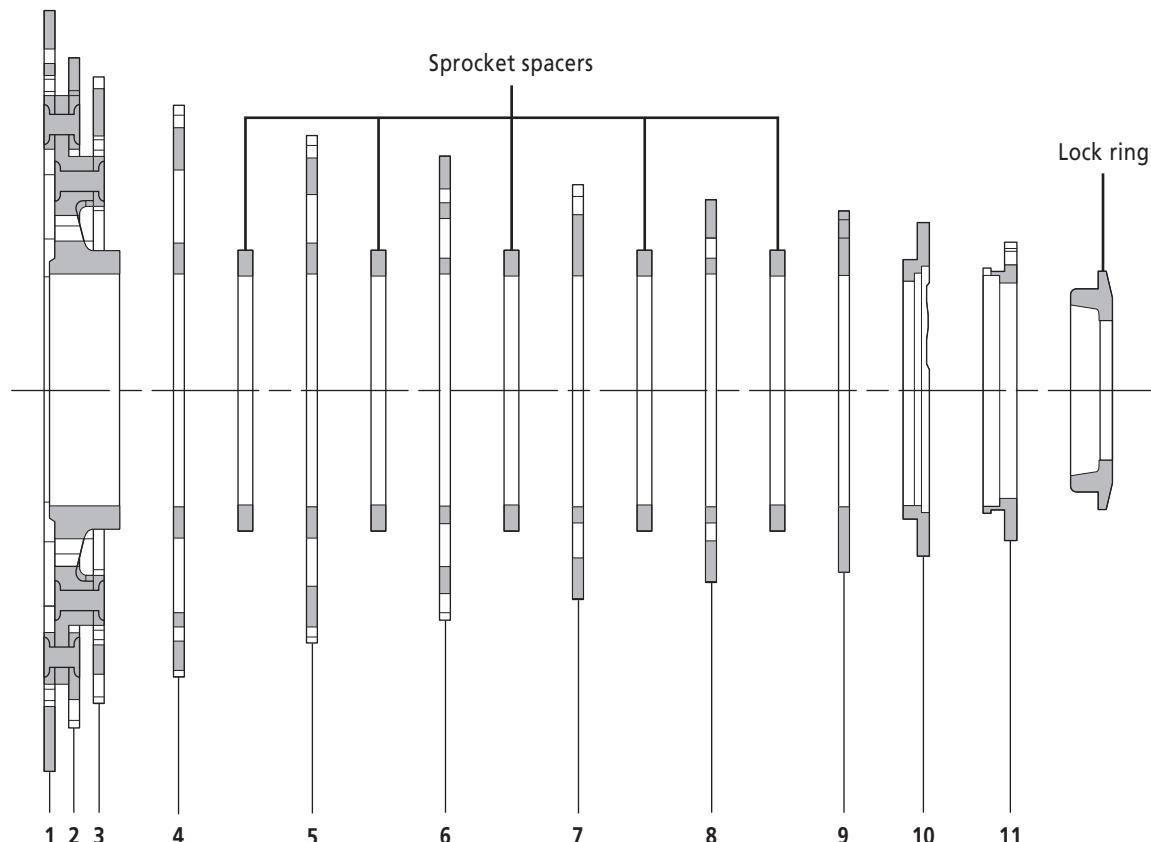
11-32T				12-25T			
Number	Number of teeth	Mark	Spider arm	Number of teeth	Mark	Spider arm	Number of teeth
1	32	11S 32A	11S 11-32	25	11S 25A	11S 12-25	28
2	28	11S 28B		23	11S 23B		25
3	25	11S 25C		21	11S 21B		22
4	22	11S 22A	11S 11-32	19	11S 19D	11S 12-25	20
5	20	11S 20A		18	11S 18B		19
6	18	11S 18C	—	17	11S 17C	—	18
7	16	11S 16B	—	16	11S 16A	—	16
8	14	11S 14A	—	15	11S 15A	—	14
9	13	11S 13A	—	14	11S 14A	—	13
10	12	11S 12A	—	13	11S 13B	—	12
11	11	11S 11A	—	12	11S 12B	—	11



14-28T			
Number	Number of teeth	Mark	Spider arm
1	28	11S 28A	11S 14-28
2	25	11S 25B	
3	23	11S 23C	
4	21	11S 21E	11S 14-28
5	20	11S 20C	
6	19	11S 19F	-
7	18	11S 18D	-
8	17	11S 17C	-
9	16	11S 16A	-
10	15	11S 15A	-
11	14	11S 14B	-

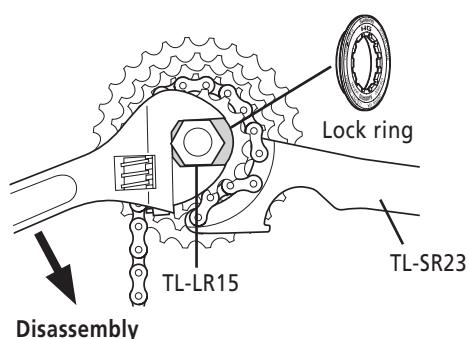
Note:

For junior teeth group adjustment, also check the adjustment section in the rear derailleur dealer's manual.



Number	11-28T			11-32T			12-25T		
	Number of teeth	Mark	Spider arm	Number of teeth	Mark	Spider arm	Number of teeth	Mark	Spider arm
1	28	11S 28A		32	11S 32A		25	11S 25A	
2	25	11S 25B		28	11S 28B		23	11S 23B	
3	23	11S 23C	11S 11-28	25	11S 25C	11S 11-32	21	11S 21B	11S 12-25
4	21	11S 21D		22	11S 22B		19	11S 19F	
5	19	11S 19E		20	11S 20B		18	11S 18D	
6	17	11S 17B		18	11S 18C		17	11S 17C	
7	15	11S 15A		16	11S 16B		16	11S 16A	
8	14	11S 14A		14	11S 14A		15	11S 15A	
9	13	11S 13A		13	11S 13A		14	11S 14A	
10	12	11S 12A		12	11S 12A		13	11S 13B	
11	11	11S 11A		11	11S 11A		12	11S 12B	

- For installation of the HG sprockets, use the Shimano original tool TL-LR15 to tighten the lock ring.
- To replace the HG sprockets, use the Shimano original tool TL-LR15 and TL-SR23 to remove the lock ring.



Tightening torque:
30 - 50 N·m {263 - 437 in. lbs.}

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