

Dealer's Manual

ROAD	GRAVEL	MTB
E-BIKE	LIFESTYLE	GENERAL

Cassette

XTR

CS-M9200

DEORE XT

CS-M8200

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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 distributor for assistance.

- Make sure to read all manuals included with each product.
- Do not disassemble or modify the product other than as stated in the information contained in this dealer's manual.
- All manuals and technical documents are accessible online at <https://si.shimano.com>.
- For consumers who do not have easy access to the internet, please contact a SHIMANO distributor or any of the SHIMANO offices to obtain a hardcopy of the user's manual.
- 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

- **Be sure to follow the instructions provided in the manuals when installing the product.**
Only use SHIMANO genuine parts. If a component or replacement part is incorrectly assembled or adjusted, it can lead to component failure and cause the rider to lose control and crash.
-  Wear approved eye protection while performing maintenance tasks such as replacing components.

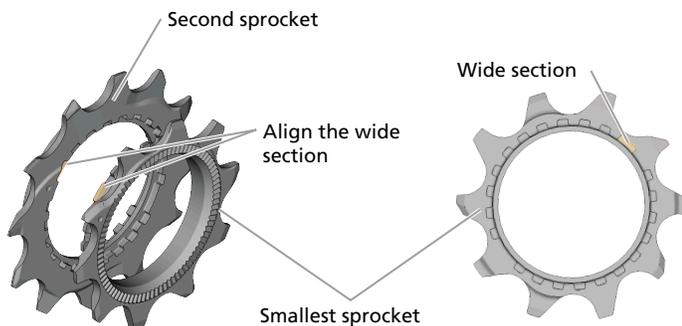
Be sure to also inform users of the following:

- Clean the chain and QUICK-LINK with an appropriate chain cleaner regularly. Intervals between maintenance depend on the use and riding circumstances. Never use alkali- or acid-based solvents such as rust cleaners. If those solvents are used the chain or QUICK-LINK might break and cause serious injury.
- When removing the lock ring, wear gloves and eye protection, and gradually apply force. A sudden release of resistance on the lock ring may cause serious injury.

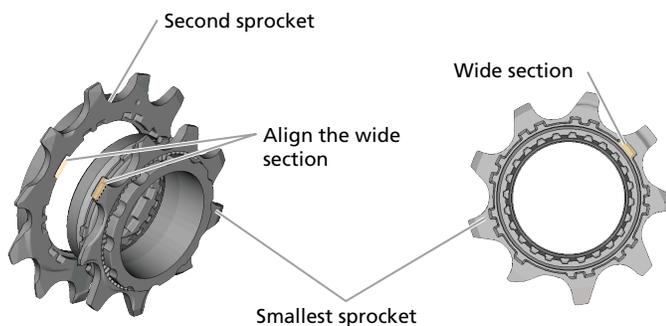
For installation to the bicycle and maintenance

- Install the sprockets with the wide sections (protrusions and grooves) aligned. If the lock ring is tightened with the sprockets improperly positioned, the splines on the sprockets may be damaged during tightening. That may cause a sudden release of resistance on the wrench being used to tighten the lock ring, which in turn may cause injury. In addition, if the bicycle is ridden with the sprockets improperly installed, damage or chain skip may occur, which can cause the rider to fall over, resulting in serious injury.

10-51T



9-45T



NOTICE

Be sure to also inform users of the following:

- If the chain keeps skipping during use, consult the place of purchase.
- 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

- The sprockets should be periodically washed with a neutral detergent then lubricated. In addition, cleaning the chain and QUICK-LINK with a neutral detergent and lubricating them can be an effective way of extending the life of the chain and QUICK-LINK.
- Always use the recommended combination of sprockets.
- Always use the CS-M9200 / CS-M8200 in combination with the CN-M9100 / CN-M8100 / CN-M7100 / CN-M6100. Other chains cannot be used because the dimensions do not match.

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

List of tools to be used

The following tools are needed for installation/removal, adjustment, and maintenance purposes.

Tool	
	TL-LR10
	TL-LR15
	TL-LR021
	TL-SR24
	Adjustable wrench

Installation/removal

Installing the cassette

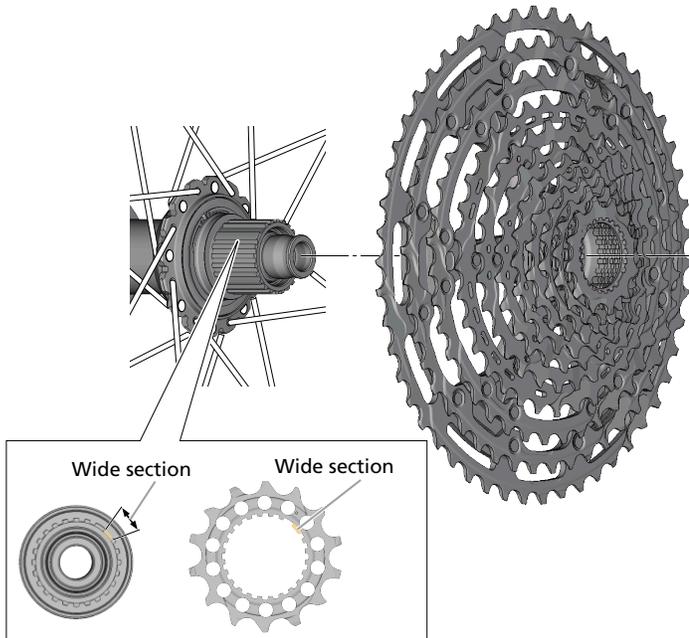
10-51T

1. **Place all of the sprockets other than the smallest sprocket on the freewheel body unit.**

Place the sprockets in descending order from the largest sprocket.

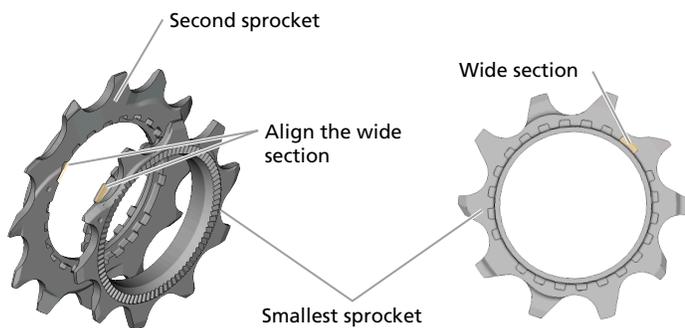
Align the wide groove section of the freewheel body unit with the wide convex section of the cassette.

The marked side of the sprockets must be facing outward.



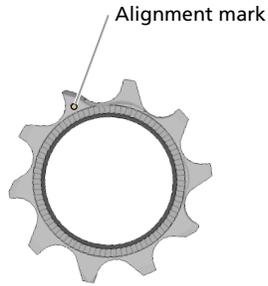
2. **Place the smallest sprocket.**

Place the sprocket so that the wide section on the inner side of the smallest sprocket is aligned with the wide section of the second sprocket.

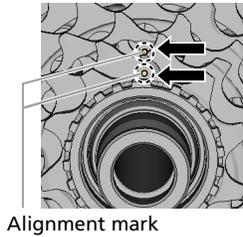


TECH TIPS

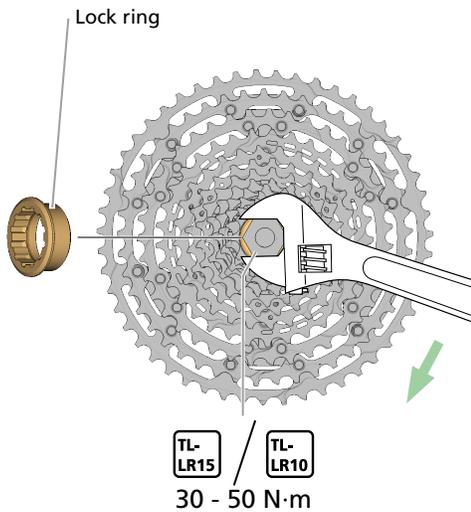
- There are sprocket alignment marks for 10T (smallest sprocket), 12T, and 14T. Assemble so that the marks of each sprocket are aligned.



- If the sprocket alignment marks are properly placed, they will be as shown in the figure.



3. Place the lock ring on the freewheel body unit and tighten the lock ring.



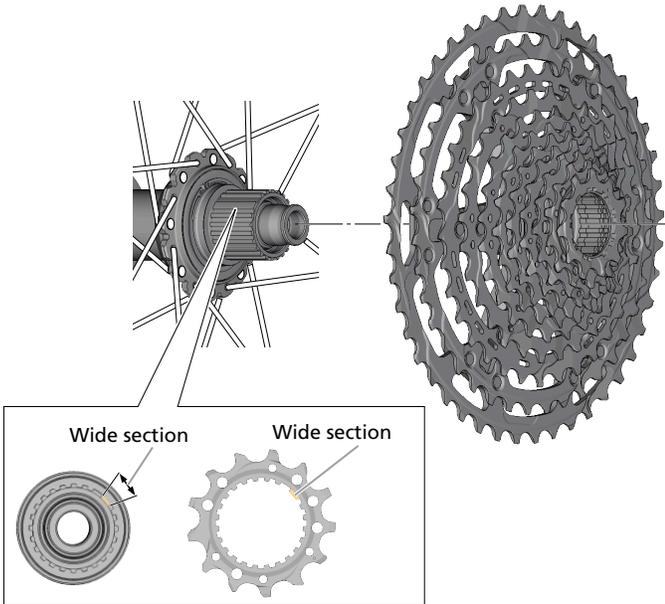
9-45T

1. Place all of the sprockets other than the smallest sprocket on the freewheel body unit.

Place the sprockets in descending order from the largest sprocket.

Align the wide groove section of the freewheel body unit with the wide convex section of the cassette.

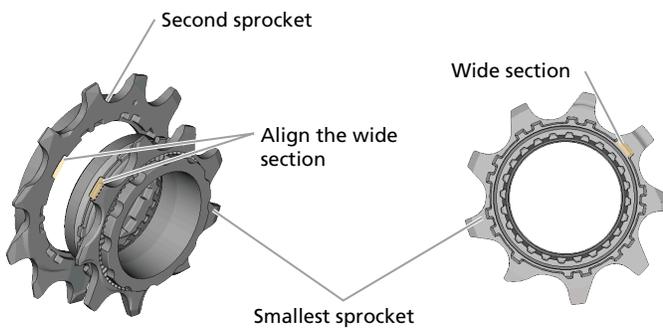
The marked side of the sprockets must be facing outward.



2. Place the smallest sprocket.

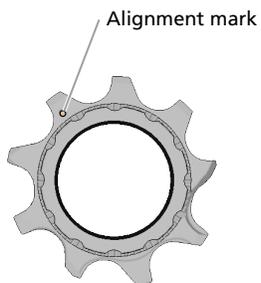
Place the sprocket so that the wide section on the inner side of the smallest sprocket is aligned with the wide section of the second sprocket.

The smallest sprocket and the lock ring are combined into a single part.

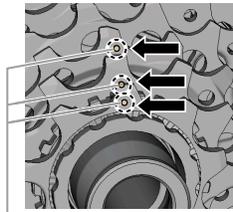


TECH TIPS

- There are sprocket alignment marks for 9T (smallest sprocket), 11T, and 13T. Assemble so that the marks of each sprocket are aligned.

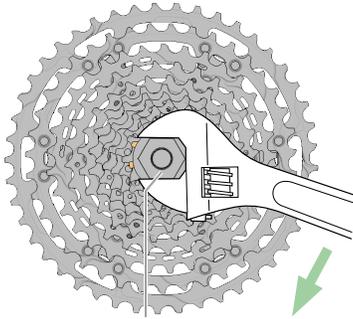


- If the sprocket alignment marks are properly placed, they will be as shown in the figure.



Alignment mark

3. Tighten the lock ring.



TL-
LR021

30 - 50 N·m

NOTICE

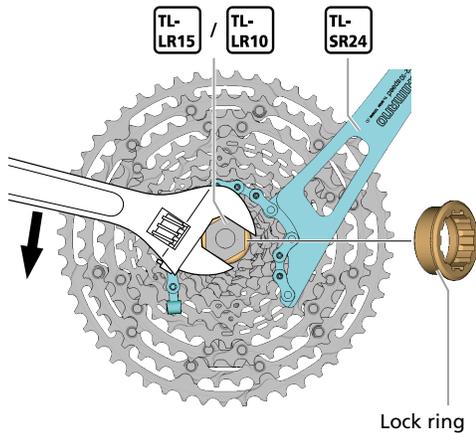
- Keep TL-LR021 perpendicular to the smallest sprocket during use.

Removing the cassette

10-51T

1. Remove the lock ring.

Place the TL-SR24 on a sprocket smaller than the middle sprocket to secure the assembly, as shown. If the TL-SR24 is set on a sprocket inward from the middle sprocket, it will not be stable.



⚠ WARNING

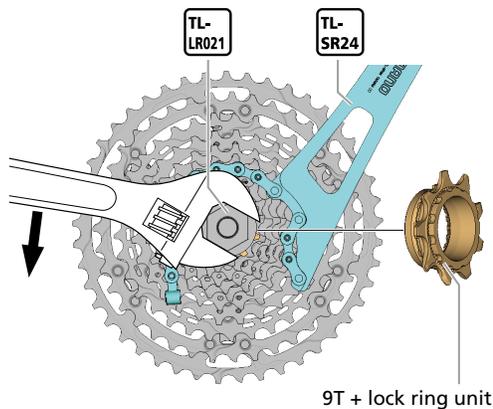
- When removing the lock ring, wear gloves and eye protection, and gradually apply force. A sudden release of resistance on the lock ring may cause serious injury.

2. Remove the cassette from the freewheel body unit.

9-45T

1. Remove the lock ring.

Place the TL-SR24 on a sprocket smaller than the middle sprocket to secure the assembly, as shown. If the TL-SR24 is set on a sprocket inward from the middle sprocket, it will not be stable.



 **WARNING**

- When removing the lock ring, wear gloves and eye protection, and gradually apply force. A sudden release of resistance on the lock ring may cause serious injury.

NOTICE

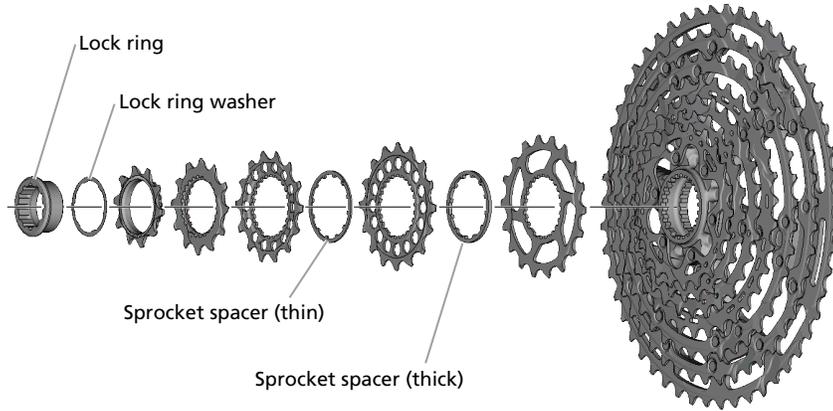
- Keep TL-LR021 perpendicular to the smallest sprocket during use.

2. Remove the cassette from the freewheel body unit.

Sprocket pattern

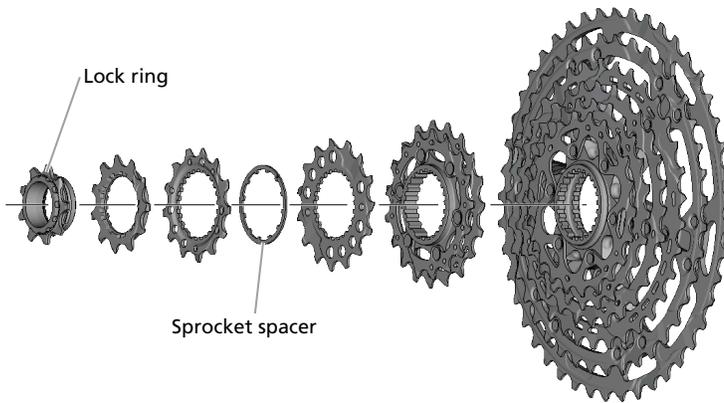
CS-M9200

10-51T



10-51T	10	-	12	-	14	-	16	-	18	-	21	-	24	-	28	-	33	-	39	-	45	-	51	T
Code	C		F		F		G		K		U		H		J		C		D		J		D	

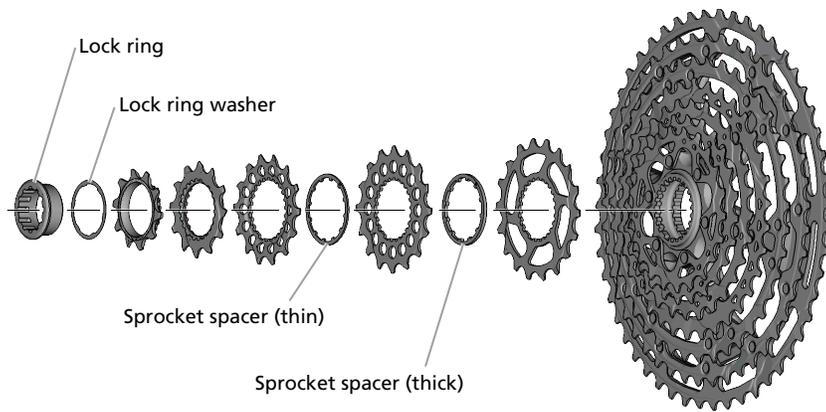
9-45T



9-45T	9	-	11	-	13	-	15	-	17	-	19	-	21	-	24	-	28	-	33	-	39	-	45	T
Code	A		D		E		F		M		P		N		H		J		C		D		H	

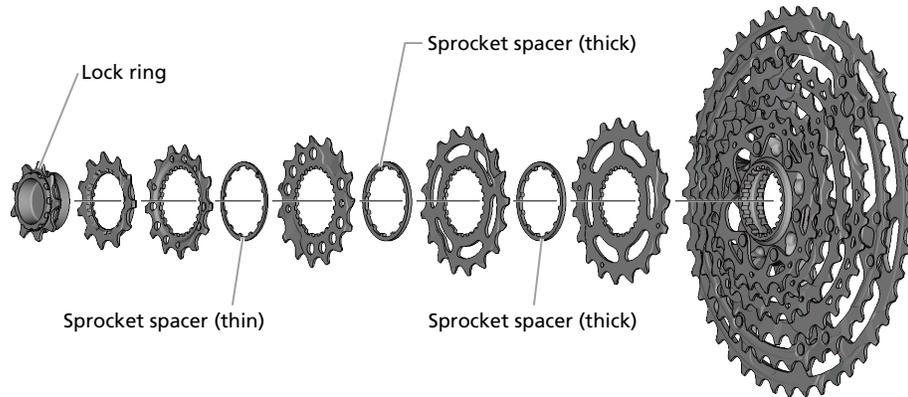
CS-M8200

10-51T



10-51T	10	-	12	-	14	-	16	-	18	-	21	-	24	-	28	-	33	-	39	-	45	-	51	T
Code	C		F		F		G		K		W		J		K		D		E		J		D	

9-45T

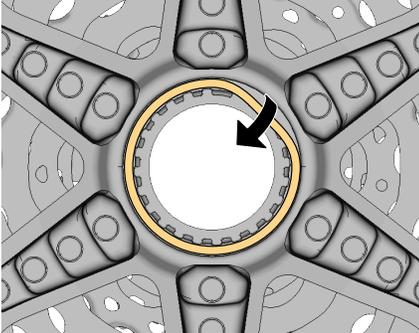


9-45T	9	-	11	-	13	-	15	-	17	-	19	-	21	-	24	-	28	-	33	-	39	-	45	T
Code	A		D		E		F		N		Q		V		J		K		D		E		H	

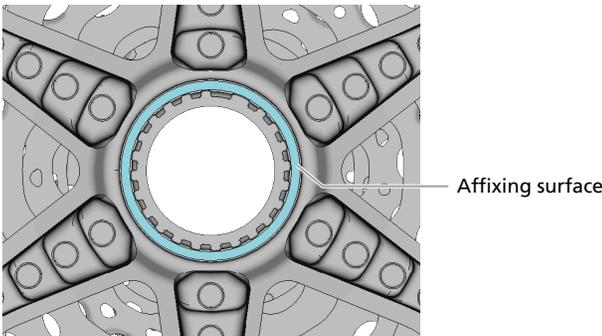
Maintenance

Replacing the adhesive ring

1. Remove the old adhesive ring.



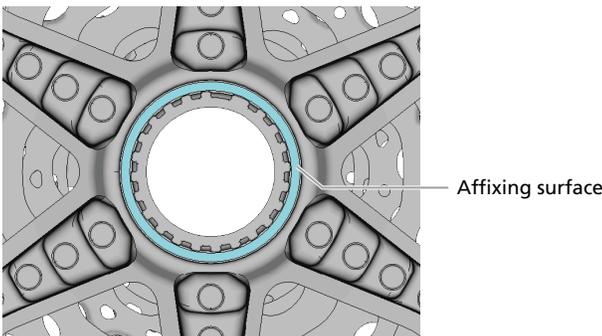
2. Clean where the adhesive ring was affixed and rinse it with water.



NOTICE

- Use neutral detergent for cleaning.

3. Wipe clean any dirt, water, and oil on the surface where the adhesive ring was affixed.

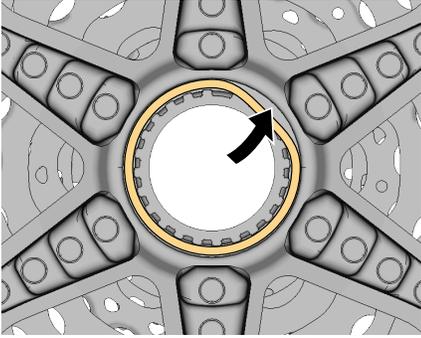


NOTICE

- The adhesive force weakens if there is any dirt, water, or oil on the surface where the adhesive ring was affixed.

4. Affix a new adhesive ring.

Firmly press down on the adhesive ring so that it adheres firmly to the mating face of the cassette.



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