SI-0027B-000-00 General Safety Information

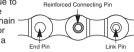
A WARNING

• 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. Use neutral detergent to clean the chain. Do not use alkali-based or acid based detergent such as rust cleaners as it may result in damage and/or failure of the chain. • Use the reinforced connecting pin only for connecting the narrow type of chain. There are two different types of reinforced connecting pins available. Be sure to check the table below before selecting which pin to use. If connecting pins other than reinforced connecting pins are used, or if a reinforced connecting pin or tool which is not suitable for the type of chain is used, sufficient connection force may not be obtained, which could cause the chain to break or fall off.

Chain	Reinforced connecting pin	Chain tool
9-speed super narrow chain such as CN-7701 / CN-HG93	Silver	TL-CN32/TL-CN23
8-/7-/6-speed narrow chain such as CN-HG50 / CN-IG51	Black	TL-CN32/TL-CN23

• If it is necessary to adjust the length of the chain due to a change in the number of sprocket teeth, make the

cut at some other place than the place where the chain has been joined using a reinforced connecting pin or an end pin. The chain will be damaged if it is cut at a



place where it has been joined with a reinforced connecting pin or an end pin.

Check that the tension of the chain is correct and that the chain is not damaged. If the tension is too weak or the chain is damaged, the chain should be replaced. If this is not done, the chain may break and cause serious injury.

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

Adjust the RD-C201 reverse spring type rear derailleur from the low side.
If gear shifting operations do not feel smooth, wash the derailleur and lubricate all moving parts

If the amount of looseness in the links is so great that adjustment is not possible, you should replace the derailleur.

You should periodically clean the derailleur and lubricate all moving parts (mechanism and pullevs)

If gear shifting adjustment cannot be carried out, check the degree of parallelism at the rear end of the bicycle. Also check if the cable is lubricated and if the outer casing is too long or too short.

 If you hear abnormal noise as a result of looseness in a pulley, you should replace the pulley.

If the wheel becomes stiff and difficult to turn, you should lubricate it with grease.
Do not apply any oil 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. 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. Use a frame with internal cable routing is strongly discouraged as it has tendencies to impair the SIS shifting function due to its high

cable resistance. Use an outer casing which still has some length to spare even when the handlebars are turned all the way to both sides. Furthermore, check that the shifting lever does not touch the

bicycle frame when the handlebars are turned all the way. · Grease the inner cable and the inside of the outer casing before

use to ensure that they slide properly. Operation of the levers related to gear shifting should be made only when the front chainwheel is turning.

 Parts are not guaranteed against natural wear or deterioration resulting from normal use. For maximum performance we highly recommend Shimano lubricants and maintenance

• For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer

Technical Service Instructions

Rear Drive System

In order to realize the best performance, we recommend that the following combination be used

Series	Altus	
Rapidfire Plus	ST-EF50-8RT	
Outer casing	SIS	
Rear derailleur	RD-C201	
Туре	MGS	
Freehub	FH-RM30-8	
Gears	8	
Cassette sprocket	CS-HG50-8I / CS-HG40-8I	
Chain	CN-HG50 / CN-HG40	
Bottom bracket guide	SM-SP18 / SM-BT18	

Specifications

Rear Derailleur

Model number	RD-C201 MGS	
Туре		
Total capacity	43T	
Largest sprocket	34T	
Smallest sprocket	11T	
Front chainwheel tooth difference	20T	

Cassette sprocket tooth combination

Model number	Sprockets	Group name	Tooth combination
CS-HG50-8I	8	an	11, 13, 15, 17, 20, 23, 26, 30T
CS-HG40-8I	8	ao	11, 13, 15, 17, 20, 23, 26, 34T

Gear shifting operation

Both lever (A) and lever (B) always return to the initial position when they are released after shifting. When operating one of the levers, always be sure to turn the crank arm at the same time.

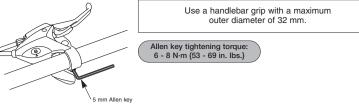
To shift from a large sprocket to a smaller sprocket (Lever A)

To shift one step only, press lever (A) to the (1) position. To shift two steps at one time, press to the (2) position

To shift from a small sprocket to a larger sprocket (Lever B)

Press lever (B) once to shift one step from a smaller to a larger sprocket

Mounting the shifting lever



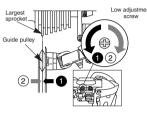
SIS Adjustment

Installation of the chain Install the chain with the Pro-Set alignment block still attached. After installing, remove the Pro-Set alignment block.

Turn the crank arm to set the derailleur to the low position



1. Low adjustment Turn the low adjustment screw so that the guide pulley moves to a position directly in line with the largest snrocket

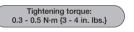


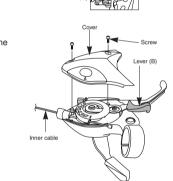
2. Top adjustment

Turn the crank arm while pulling the derailleur with your hand to move the derailleur to the top position, and then turn the top adjustment screw to adjust so that the guide pulley is in line with the outer line of the smallest sprocket when looking from the rear. Turn the crank arm to set the derailleur to the low position

3. Securing the outer cable and inner cable Operate lever (B) at least 7 times to set the lever to the lowest nosition Remove the screw, and then remove the cover.

Pull out the inner cable as shown in Figure, and then install the new inner cable





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Inserting the inner cable

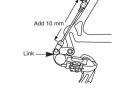
Insert the inner cable into the outer casing from the end with the marking on it. Apply grease from the end with the marking in order to maintain cable operating efficiency.

Place the outer casing so that it does not touch the basket and mudguard, otherwise it may cause a problem with the performance of the derailleur Set the outer casing so that its length is as follows.

•If routing the casing upward: (The chain should be on the largest chainring and on the largest sprocket.)

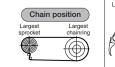
Add 10 mm to the length of the outer casing from the end that is inserted into the outer casing holder to the end which is inserted into the link.

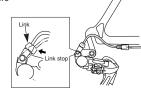




If routing the casing downward: (The chain should be on the largest chainring and on the largest sprocket.)

Set the length of the outer casing so that it describes a smooth arc, and so that the link stops in a position where there is a small gap between the link and the link stop.





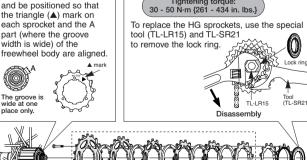


Largest sprocket

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Largest chain

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The 6 sprockets are secured by means of rivets

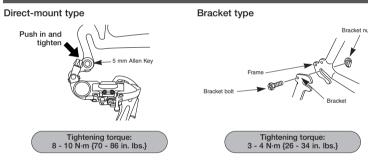
Chain length

SI-0027B

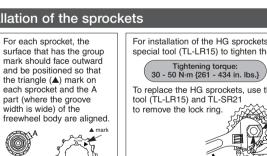
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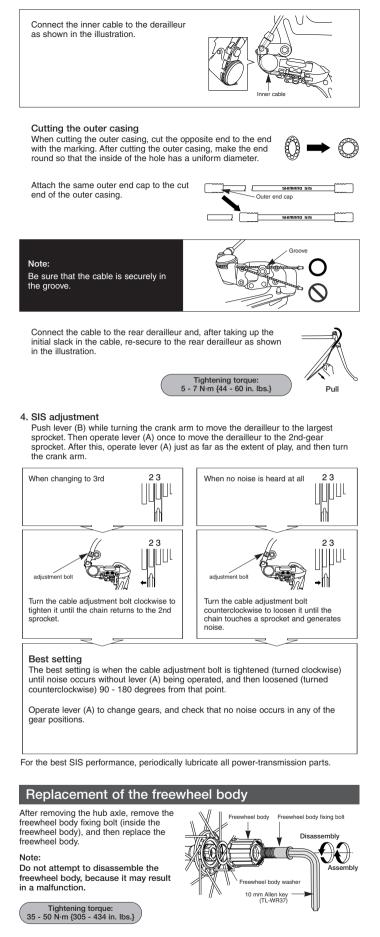
Add 2 links (with the chain on both the largest sprocket and the largest chainring)

Installation of the rear derailleur



Installation of the sprockets





This service instruction explains how to use and maintain the Shimano bicycle parts which have been used on your new bicycle. For any questions regarding your bicycle or other matters which are not related to Shimano parts, please contact the place of purchase or the bicycle manufacturer.

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