A WARNING

- · 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
- There are two different types of reinforced connecting pin 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-7700 / CN-HG92	Silver	TL-CN31/TL-CN22
8-/7-/6-speed narrow chain such as CN-HG50 / CN-IG51	Black	TL-CN31/TL-CN22 and TL-CN30/TL-CN21

• 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 Fnd Pin Link Pin if it is cut at a place where it has

been joined with a reinforced connecting pin or an end pin.



· Obtain, read and carefully service instructions when installing parts. A loose, worn, or damaged parts may cause injury to the rider. We strongly recommend that only genuine Shimano replacement parts be

SERVICE INSTRUCTIONS

SI-53Z0D

RD-6500

Rear Derailleur

Before use, read these instructions carefully, and follow them for correct use.

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

Series	ULTEGRA		
Shifting lever	ST-6500 / SL-7700 / SL-BS77		
Gears	18	27	
Outer casing	SIS-SP40		
Rear derailleur	RD-6500	RD-6500-GS	
Туре	SS	GS	
Front chainwheel	FC-6500	FC-6503	
Freehub	FH-6500		
Cassette sprocket	CS-6500		
Chain	CN-HG92 / CN-7700		
Bottom bracket cable guide	SM-SP17		

Specifications

·			
Туре	SS	GS	
Total capacity	29T teeth or less	37T teeth or less	
Largest sprocket	28T	27T	
Smallest sprocket	11T	11T	×
Front chainwheel tooth difference	14T	22T	

Note

- · For smooth operation, use the specified outer casing and the bottom bracket cable guide.
- · Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly,
- . The tension pulley has a mark which indicates the direction of rotation. The side with the arrow is the front side.
- · Because the high cable resistance of a frame with internal cable routing would impair the SIS function, this type of frame should not be used.

. The end of the outer casing which has the aluminum cap should be at the derailleur side.

Derailleur side Plastic cap or 4-mm car

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

Installation of the rear derailleur

caused by the B-tension adjustment screw coming into

B-tension

Largest chainring

Right angle to the ground

adjustment screw

When installing, be careful that deformation is not

Bracket spindle tightening torque: 8 - 10 Nm (70 - 86 in, lbs.)

contact with the dropout tab.

Chain length

GS type, SS type

Guide pulley

2. Connection and securing of the cable

Stroke adjustment and cable

Turn the top adjustment screw to adjust so that the

guide pulley is below the outer line of the smallest

securing

1. Top adjustment

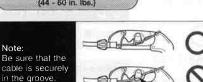
sprocket when

rear.

looking from the

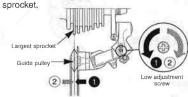
Connect the cable to the rear derailleur and, after taking up the initial slack in the cable, re-secure to the rear derailleur as shown in the illustration.

> Tightening torque: 5 - 7 Nm (44 - 60 in. lbs.)



3. Low adjustment

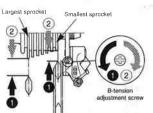
Turn the low adjustment screw so that the guide pulley moves to a position directly in line with the largest sprocket.



4. How to use the B-tension adjustment screw

Mount the chain on the smallest chainring and the largest sprocket, and turn the crank arm backward. Then turn the B-tension adjustment screw to adjust the guide pulley as close to the sprocket as possible but not so close that it touches. Next, set the chain to the smallest sprocket and repeat the above to make

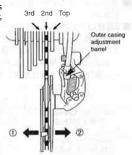
sure that the pulley does not touch the sprocket.



5. SIS Adjustment

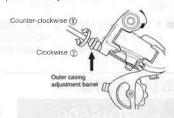
- (1) Operate the shifting lever to move the chain from the top gear to the 2nd gear.
- * If the chain will not move to the 2nd gear, turn the outer casing adjustment barrel to increase the tension----- (counter clockwise)

* If the chain moves past the 2nd gear, decrease the tension---2 (clockwise)



(2) Next with the chain on the 2nd gear, increase the inner cable tension ① while turning the crank arm forward. Stop turning the outer casing adjustment barrel just before the chain makes noise against the 3rd gear.

This completes the adjustment,



For the best SIS performance, periodically lubricate all power-transmission parts.

These service instructions are printed on recycled paper and can be recycled again

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

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