

SERVICE INSTRUCTIONS SI-53Z0C

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.

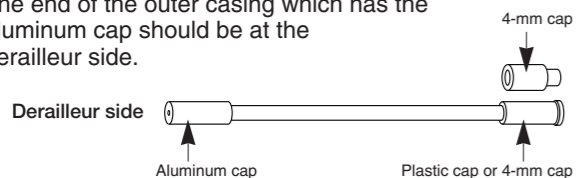
Series	ULTEGRA	
Shifting lever	ST-6500 / SL-7700 / SL-BS77	
Sprockets	18	27
Outer casing	SIS-SP40	
Rear derailleur	RD-6500	RD-6500-GS
Type	SS	GS
Front chainwheel	FC-6500	FC-6503
Freehub	FH-6500	
Cassette sprocket	CS-6500	
Chain	CN-HG92 / CN-7700	
Bottom bracket cable guide	SM-SP17	

Specifications

Type	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, always be sure to 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.

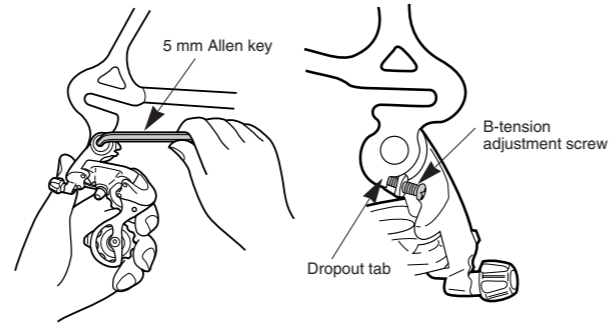


- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

Installation of the rear derailleur

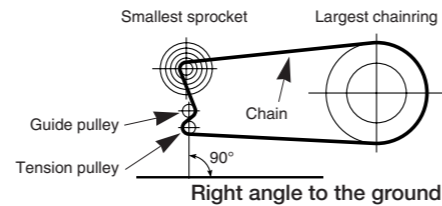
When installing, be careful that deformation is not caused by the B-tension adjustment screw coming into contact with the dropout tab.

Bracket spindle tightening torque:
8 - 10 Nm {70 - 86 in. lbs.}



Chain length

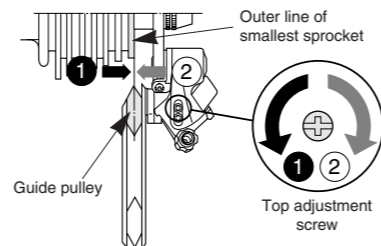
GS type, SS type



Stroke adjustment and cable securing

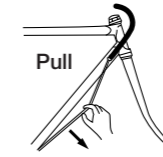
1. Top adjustment

Turn the top adjustment screw to adjust so that the guide pulley is below the outer line of the smallest sprocket when looking from the rear.



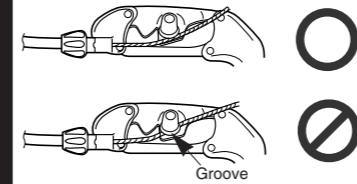
2. Connection and securing of the cable

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.



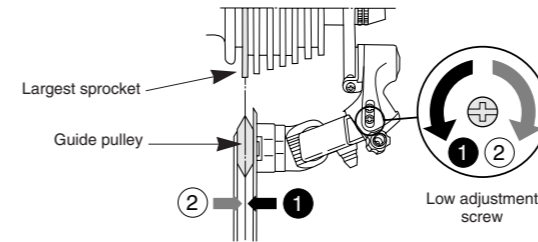
Tightening torque: 5 - 7 Nm
{44 - 60 in. lbs.}

Note:
Be sure that the cable is securely in the groove.



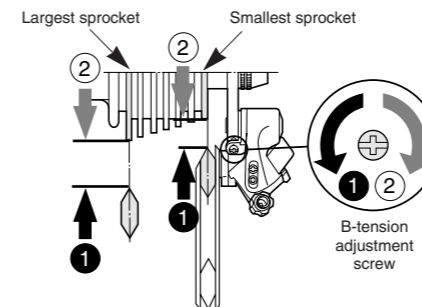
3. Low adjustment

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



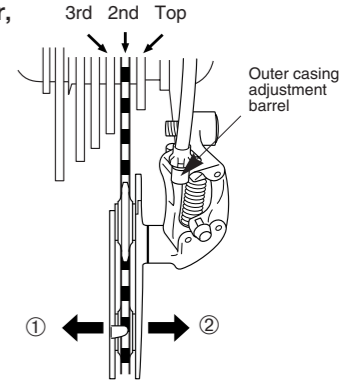
4. How to use the B-tension adjustment screw

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.

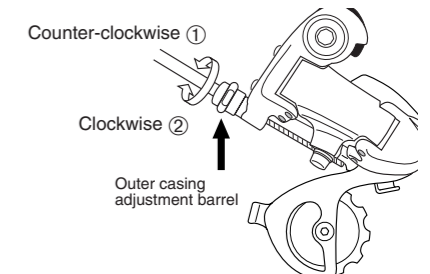


5. SIS Adjustment

- 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---① (counter clockwise)
 - If the chain moves past the 2nd gear, decrease the tension---② (clockwise)



- 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.

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