

SERVICE INSTRUCTIONS

**RD-A500
RD-A400
RD-A300**

Rear Derailleur

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

Capacity

Front difference; 13 teeth or less
Total capacity (front difference plus rear difference); 28 teeth or less
Rear smallest sprocket; 12 teeth
Rear largest sprocket; 28 teeth

Note: The above capacity is the value when the B-tension adjustment bolt is completely tightened.

Note

- If used as SIS, be sure to use the following combination:
 - Shifting lever.....SL-A500/SL-A400
 - Rear derailleur.....RD-A500/RD-A400/RD-A300
 - Free hub•Freewheel.....FH-HG50/MF-HG20
 - Chain.....Only the Shimano Hyperglide compatible narrow type UG chain
 - Outer cable.....Shimano SIS cable/Shimano SIS sealed cable
- Because the high cable resistance of a frame with internal cable guides would impair the SIS function, this type of frame should not be used.

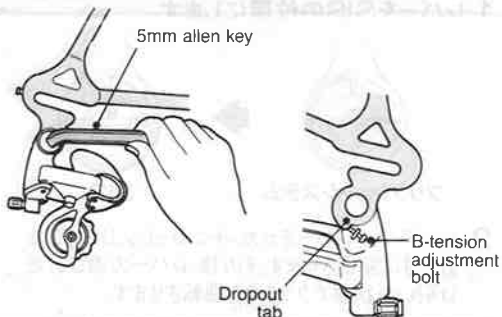
Assembly and Adjustment

1. Assembly to Frame

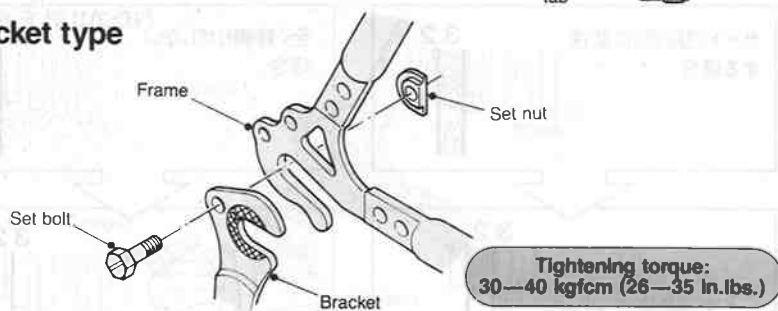
• Direct-mount type

Bracket axle tightening torque:
80—100 kgfcm (70—85 in.lbs.)

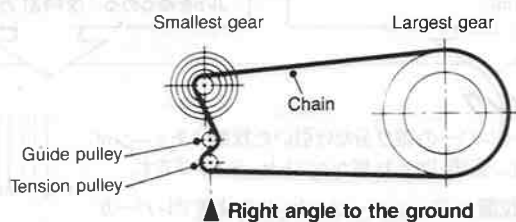
When installing, be careful that deformation is not caused by the B-tension adjustment bolt coming into contact with the dropout tab.



• Bracket type

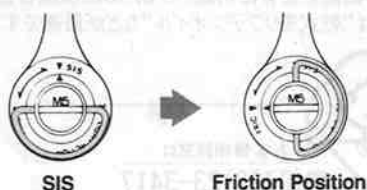


2. Chain Assembly



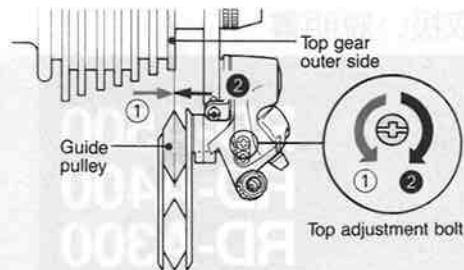
3. Stroke Adjustment and Cable Connection

Adjust with the lever at the friction position.



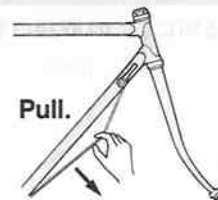
1. Top adjustment

Turn the top adjustment bolt to adjust so that, looking from the rear, the guide pulley is below the outer line of the top gear.



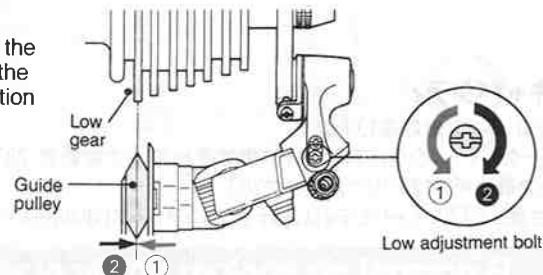
2. Inner cable connection

Connect the inner cable to the rear derailleur and, after the pre-stretch as shown in the figure, reconnect to the rear derailleur.



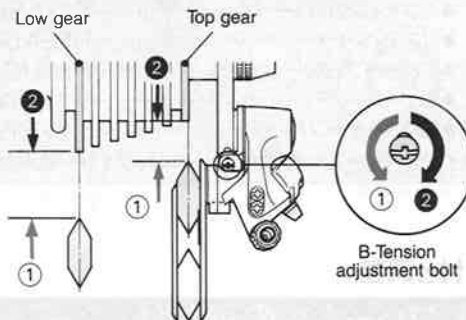
3. Low adjustment

Shift to lowest gear and turn the low-adjustment bolt so that the guide pulley moves to a position directly below the low gear.



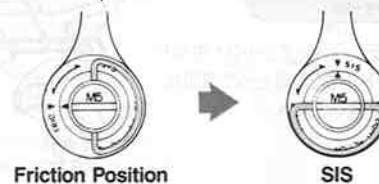
4. How to Use B-Tension Adjustment Bolt

Mount the chain on the chainwheel's smallest gear and the freewheel's largest gear, and turn the crank backward. Then turn the B-tension adjustment bolt to adjust the guide pulley as close to the gear as possible but not so close that it touches. Next, set the freewheel to the smallest gear and repeat the above to make sure the pulley does not touch.

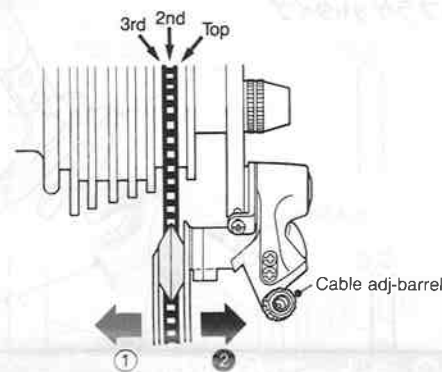


5. SIS Adjustment

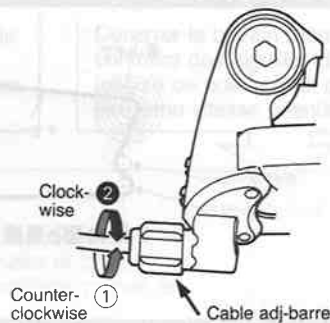
1. Move the shifting lever from friction so SIS, and make the SIS adjustment.



2. 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 cable adjusting barrel to increase the tension.....① (counter clockwise)
• If the chain moves past the 2nd gear, decrease the tension.....② (clockwise)



3. Next with the chain on the 2nd gear, increase the inner cable tension ① while turning the crank forward. Stop turning the cable adjusting barrel just before the chain makes noise against the 3rd gear. This completes the adjustment.



Be sure to perform oil maintenance at each part of the derailleur mechanism. The optimum oil is dry molybdenum oil or the equivalent.

SHIMANO

SHIMANO AMERICAN CORPORATION
One Shimano Drive, Irvine, California, U.S.A. 92718 Tel. (714) 951-5003
SHIMANO (EUROPA) GmbH
Kleinhülsen 1-3 4010 Hilden, West Germany Tel. 02103-5005-0

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

SHIMANO (SINGAPORE) PTE. LTD.
No. 20, Benoi Sector, Jurong Town, Singapore 2262 Tel. 2654777
SHIMANO INDUSTRIAL CO., LTD.
3-77 Oimatsucho, Sakai, Osaka, Japan Tel. (0722) 23-3243

© Jun. 1989 by Shimano Co., Ltd. T-7 XBC SZK Printed in Japan.