

# SERVICE INSTRUCTIONS

## RD-6401 Rear Derailleur

For proper and safe performance, read and follow these instructions carefully.

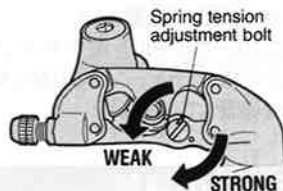
### Capacity

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.....ST-6400/SL-6401-8/SL-BS64-8
  - Rear derailleur.....RD-6401
  - Free hub.....FH-6402-HG/FH-7403-HG
  - Cassette Sprocket.....CS-HG90-8
  - Chain.....CN-HG90
  - Outer cable.....Shimano SIS cable (for rear derailleur)  
Shimano SIS cable (for lever)
- 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.
- RD-6401 cannot be used in combination with the Dura-Ace shifting lever.
- The tension of the guide spring can be set to any one of three steps. If a higher return force for the rear derailleur is necessary because riding conditions are poor, set to the STRONG setting. If the riding conditions are very good, a lighter, smoother lever operation feeling can be obtained by setting to the WEAK position.
- The setting is strong at the ○ mark.

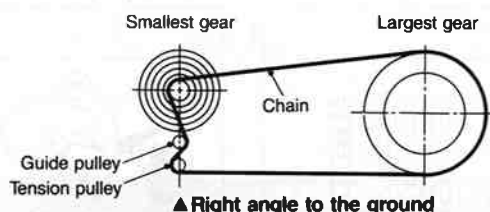
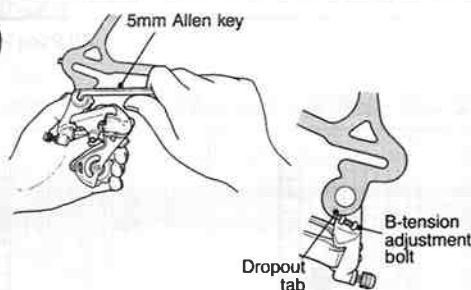


## Assembly and Adjustment

### 1. Assembly to Frame

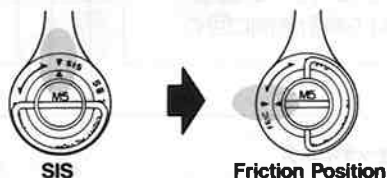
Bracket axle tightening torque:  
80—100 kgfcm (70—85 in.lbs.)

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



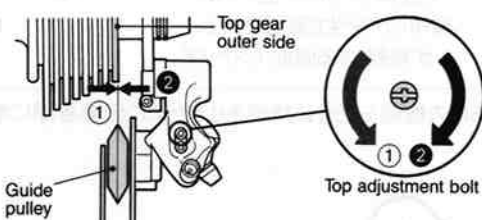
### 3. Stroke Adjustment and Cable Connection

Adjust with the lever at the friction position.  
(SL-6401-8, SL-BS64-8)



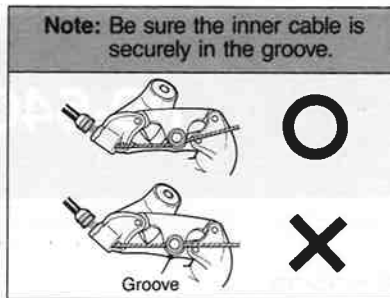
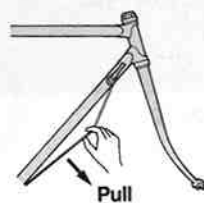
#### 1. Top adjustment

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.



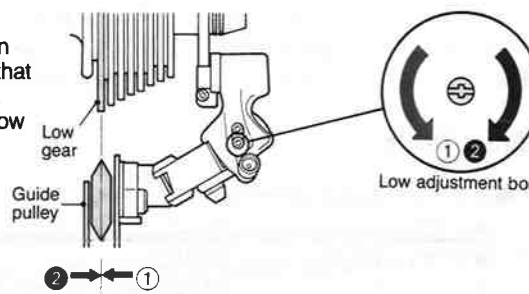
#### 2. Inner cable connection

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



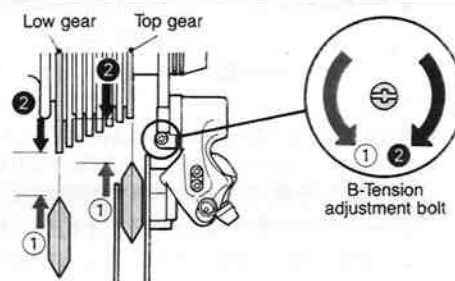
#### 3. Low adjustment

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



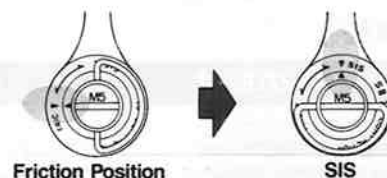
### 4. How to Use B-Tension Adjustment Bolt

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.

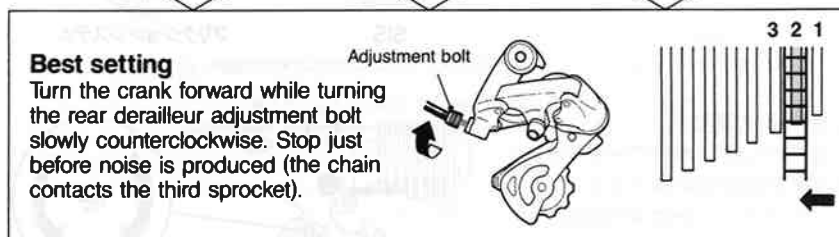
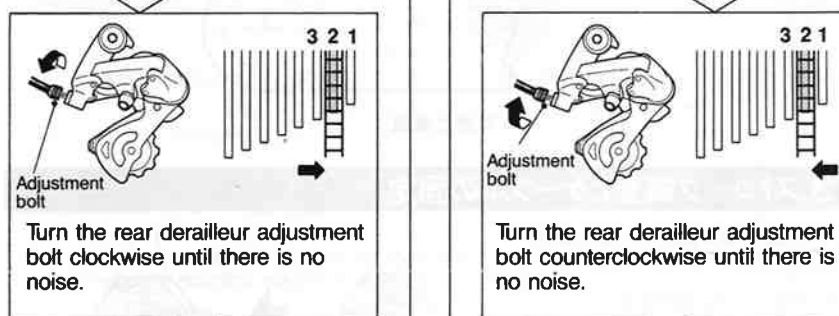
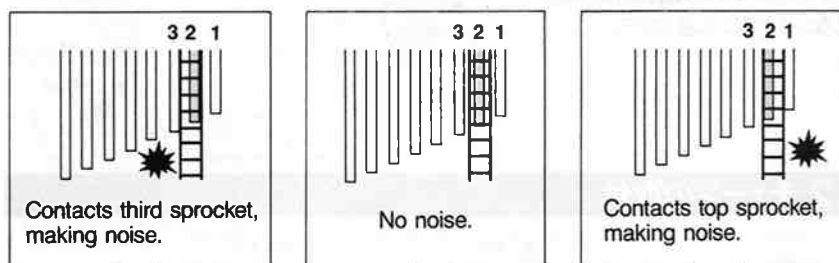


### 5. SIS Adjustment

1. Move the shifting lever from friction so SIS, and make the SIS adjustment.  
(SL-6401-8, SL-BS64-8)



2. Operate the lever to set the chain to the second from top sprocket.



Be sure to perform oil maintenance at each part of the derailleur mechanism.

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

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