

# SERVICE INSTRUCTIONS

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

## Rear Derailleur RD-A452



### Specifications

- **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
- **Material:** Light alloy
- **Weight:** 235g
- Note:** The above capacity is the value when the B-tension adjustment bolt is completely tightened.

### Note

The following products should be used together for the Shimano Index System (SIS) function.

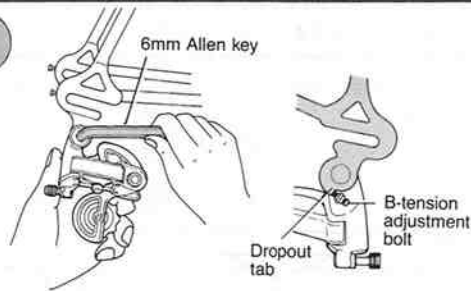
	7-speed	6-speed
Shifting Lever	SL-A453	SL-A452
Rear Derailleur	RD-A452	
Freehub, Freewheel	FH-A450-7, FH-1051-7 CS-1000-7	FH-A450-6, FH-1051-6 CS-1000-6
Chain	Shimano UG Chain narrow type	Shimano UG Chain
Outer cable	Shimano SIS cable	

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

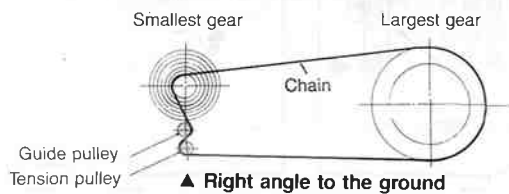
### 1. Assembly to Frame

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



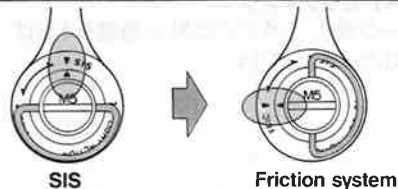
When installing, be careful that the B-tension adjustment bolt is not deformed by coming into contact with the dropout tab.

### 2. Chain Assembly



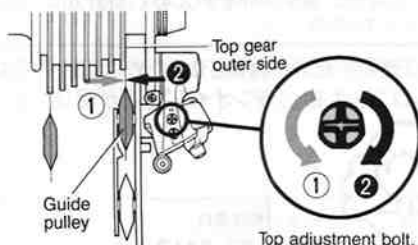
### 3. Stroke Adjustment and Cable Connection

Adjust with the lever at the friction position.



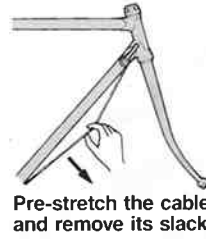
#### 1. Top adjustment

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.

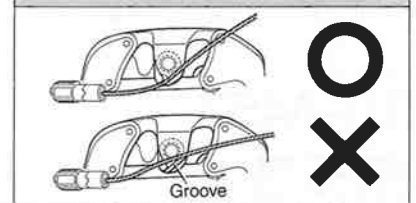


#### 2. Inner cable connection

Connect the inner cable to the rear derailer and, after the pre-stretch as shown in the figure, reset the cable to eliminate cable slack.

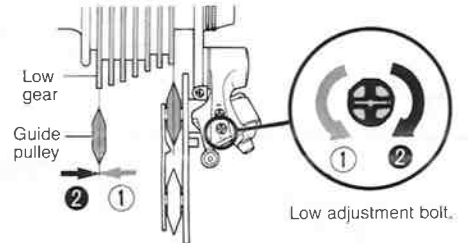


**Note:** Be sure the inner cable is securely in the groove.



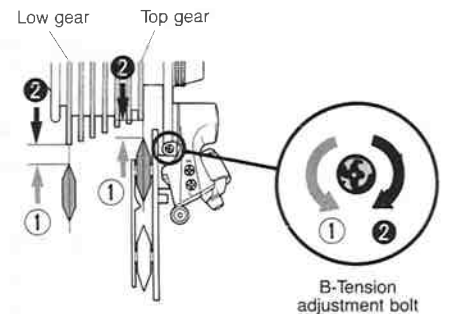
#### 3. Low adjustment

Turn the low adjustment bolt to adjust so that the guide pulley moves to a position directly below the low gear.



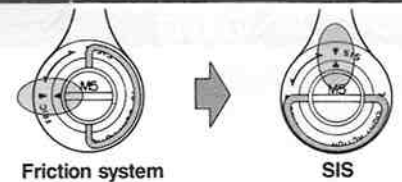
### 4. How to Use B-Tension Adjustment Bolt

Mount the chain on the smallest chainwheel gear and the largest freewheel gear, and turn the crank backwards. 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.



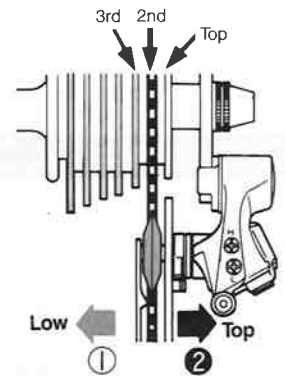
### 5. SIS Adjustment

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

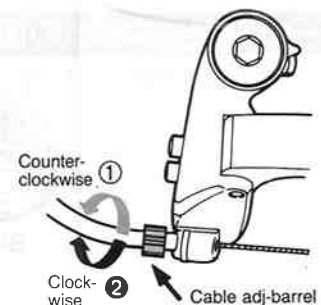


2. Operate the shifting lever to shift the chain from the top gear to the 2nd gear.

- 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 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.



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

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