SERVICE INSTRUCTIONS

RD-M735
RD-M650
RD-M550

Rear Derailleur

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

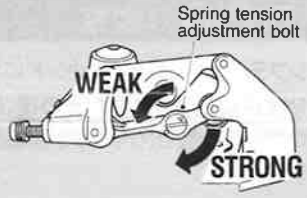
Capacity

Type	Total capacity	Rear smallest sprocket	Rear largest sprocket
Long cage (RD-M550)	36T or less	12T	28T~30T
Super long cage (RD-M735/ RD-M650/ RD-M550)	38T or less	12T	28T~32T

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

Note

- Be sure to follow the recommendations below regarding combinations of components.
  - Rapidfire ST-M090/ST-M070/ST-M060/
  - Rear derailleur.....RD-M735/RD-M650/RD-M550
  - Freehub.....FH-M732/FH-M650/FH-M550
  - Cassette sprocket (7-speed).....CS-HG90/CS-HG70
  - Chain.....CN-HG90/CN-HG70
  - Outer cable.....Shimano SIS-SP 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.
- RD-M735, RD-M650 and RD-M550 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.



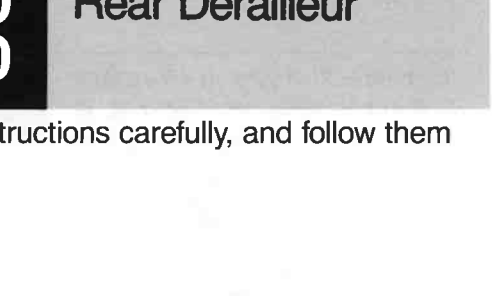
- The setting is strong at the ○ mark.

Assembly and Adjustment

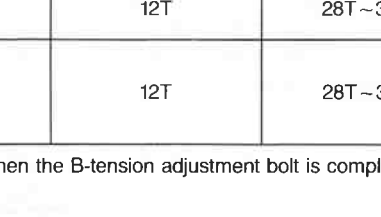
1. Assembly to Frame

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.



2. Chain Assembly

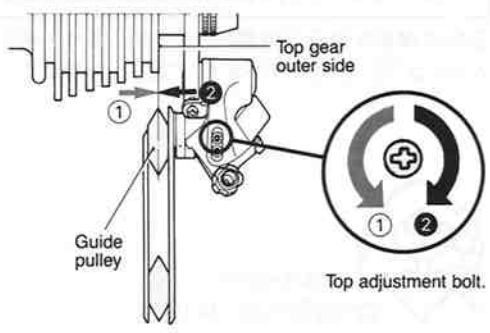


Add 2 links (with chain tightened)

3. Stroke Adjustment and Cable Connection

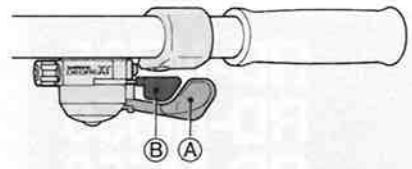
1. Top adjustment

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.

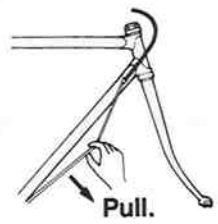


2. Inner cable connection

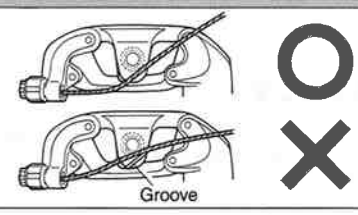
Press the lever Ⓑ **six times or more** to first set the lever to top gear.



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

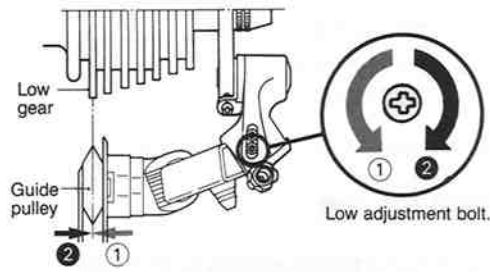


Note: Be sure the inner cable is securely in the groove.



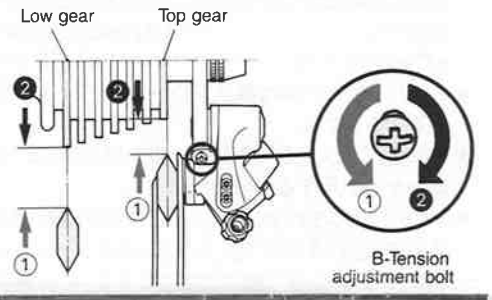
3. Low adjustment

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



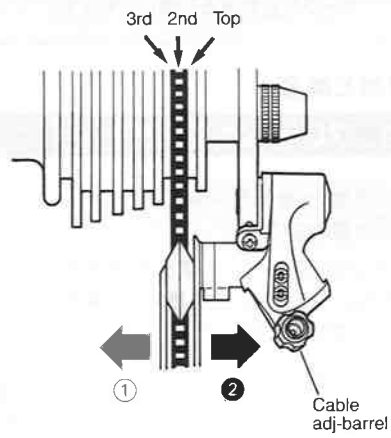
4. How to Use B-Tension Adjustment Bolt

Mount the chain on the 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.

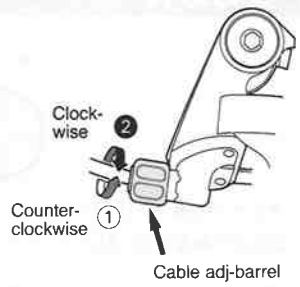


5. SIS Adjustment

1. 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)**



2. 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.



For the best SIS performance, lubrication is recommended for all power-transmission parts. The optimum oil is dry molybdenum oil or a similar oil.

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

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