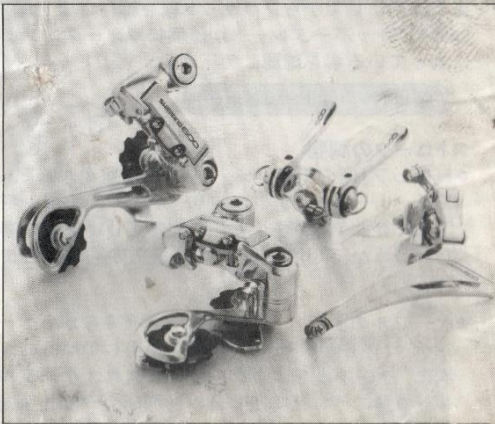


# SERVICE INSTRUCTION

## New Shimano 600EX Derailleur set

- Rear Derailleur/ RD-6207 (Short Cage)  
RD-6207GS (Long Cage)
- Front Derailleur/ FD-6207
- Shifting Lever/ SL-6207BA (Band Type A)  
SL-6207FA (Brazed on Type A)  
SL-6207BB (Band Type B)  
SL-6207FB (Brazed on Type B)  
SL-6207FC (Brazed on Type C)

NEW  
**SHIMANO 600 EX**



### Features

#### Rear Derailleur

- 1) Hexagon wrench tooling for simplified handling and secure attachment.
- 2) Durable sealed mechanism.
- 3) The high-strength brass bushing on the link's friction surface and the stainless steel pin improve durability and minimize wear.
- 4) In addition to an ordinary spoke barrier cap, the New Shimano 600EX is equipped with a spoke barrier cage to prevent the spokes from being damaged.

#### Front Derailleur

- 1) The Trap-Ease mechanism prevents the derailleur and chain from rattling, and improves shifting performance.
- 2) The chain guide with the dished out inner plate makes shifting to upper gears quick and smooth, and eliminates slipping.
- 3) The wide 18T capacity gives more assembling flexibility.
- 4) The forged right link and hardened steel chain guide provide strength and durability.
- 5) A helicoid is inserted with the cable-fixing screw, which prevents the screw from being destroyed by excessive torque.
- 6) The outer guide is detachable for that clean, sleek look.

#### Shifting Lever

- 1) A sintered alloy insert minimizes wear on the mechanism, and maintains the original smooth, stable shifting performance.
- 2) Levers designed with human-engineering contour to fit fingers comfortably.
- 3) Durable sealed mechanism.
- 4) Cap functions as a spring to prevent the bolt from loosening.

### Specification (Capacity)

- Rear Derailleur
- Rear largest sprocket/28 teeth or less (RD-6207), 34 teeth or less (RD-6207GS)
  - Total capacity (front difference plus rear difference)/28 teeth or less (RD-6207), 34 teeth or less (RD-6207GS)
- Front Derailleur
- Front difference/18 teeth or less

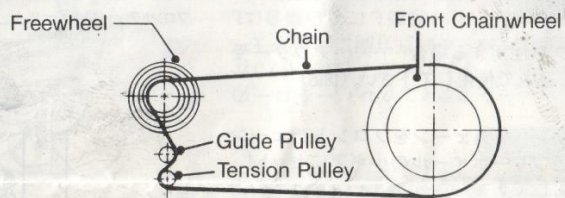
#### Note

- Shifting Lever operation should only be while the pedals are turning forward.
- Insufficient oil on the derailleur will impede smooth operation at times, so oil all rotating and other necessary parts at regular intervals.

### Chain Assembly

#### In the case of a freewheel with 28 teeth or less :

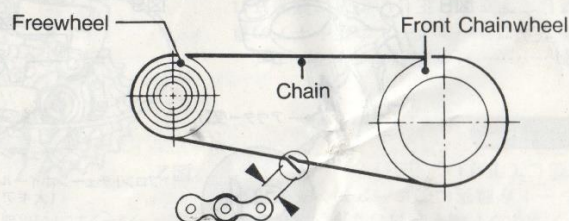
Put the chain on the smallest sprocket of the freewheel and on the largest sprocket of the front chainwheel. Adjust the length of the chain by checking that the center line connecting the rear derailleur guide pulley and the tension pulley is at right angles to the ground.



Right angle to the ground

#### In the case of a freewheel with 29 teeth or more :

Put the chain on the largest front chainwheel and the largest rear sprocket of the freewheel. Stretch the chain to the limit of the derailleur and add 2 chain links.



Add 2 Links

### Rear Derailleur Assembly

#### Frame Assembly

Assemble the rear derailleur bracket axle to the fork end by means of the hexagon wrench (6 mm). At this point set the stopper plate to the tip of the fork end and tighten the bracket axle half way only. Next, push the bracket body forward so that its inside section touches the derailleur stopper of the stopper plate.

When tightening is completed release the bracket body. And ensure that the stopper plate makes proper contact with the tip of the fork end. (Diagram 1).

Tightening torque: 80 ~ 100 kgfcm

#### Stroke Adjustment

##### H (Top) Side Adjustment

Adjust the position of the guide pulley by means of adjust screw H so that it will be directly below the smallest gear of the multiple freewheel. Examine its position by looking at the freewheel from the rear (Diagram 2).

##### Cable fixing

Loosen the cable fixing nut with a 6mm hexagon wrench key, monitoring the work from the top. After passing the cable end through the channel of the cable fixing bolt, and retighten the cable fixing nut (Diagram 3).

Tightening torque: 50 ~ 70kgfcm

##### L (Low) side adjustment

If the chain comes off the lowest gear (largest gear) when the shifting lever is set to the low position, turn the "L" adjusting screw in a clockwise direction until a satisfactory setting is found. Conversely, if the chain does not move to the low gear or difficulty is experienced, turn the "L" adjusting screw in an anticlockwise direction (Diagram 2).

Diagram 1

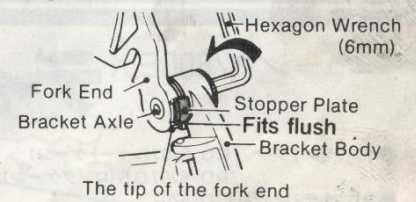


Diagram 2

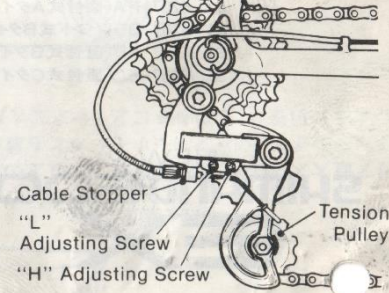
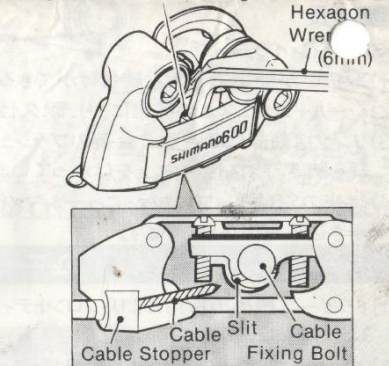


Diagram 3 Cable Fixing Nut



### Front Derailleur Assembly

#### Assembly to Frame

1. Fix the clamp band to the seat tube temporarily by tightening the clamp bolt by hand.
2. And then adjust the clearance between the chainguide outside plate, as viewed from the side, and the front chainwheel large gear to between 2-3mm (Diagram 4).
3. Next, when seen from above, the outside face of the chainguide and the front chainwheel large gear should be parallel (Diagram 5).
4. Finally, tighten the clamp bolt by 6mm hexagon wrench spanner. Tightening torque of clamp bolt should be 60kg-cm. (53in-lbs.).

Tightening torque: 60 kgfcm

Diagram 4

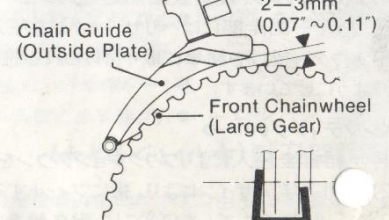


Diagram 5

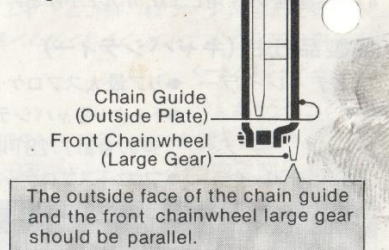


Diagram 6

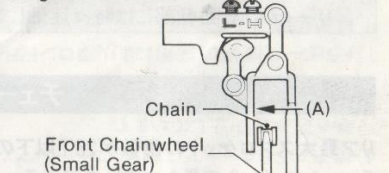


Diagram 7

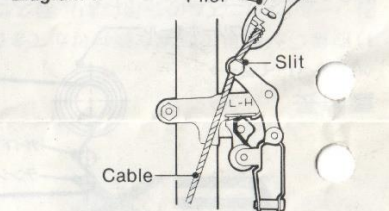


Diagram 8

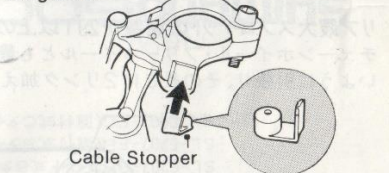
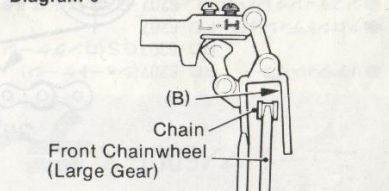


Diagram 9



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note: Specifications are subject to change for improvement without notice.