General Safety Information

Use a handlebar grip with a maximum outer diameter of 32 mm.

Template:

For any questions regarding your bicycle or other matters which are not bicycle parts which have been used on your new bicycle.

• A special grease is used for the gear shifting cable (SIS-SP41). Do not use DURO-ACE grease or other types of grease, otherwise they may cause deterioration in gear shifting performance.

• Use a frame with internal cable routing is strongly discouraged as it has tendencies to impair the SIS shifting function due to its high cable resistance.

• Do not adjust the shift lever or indicator unit, as this may damage them or cause mis-operation.

• Parts are not guaranteed against natural wear or deterioration resulting from normal use.

• For maximum performance we highly recommend Shimano lubricants and maintenance products.

• For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

Technical Service Instructions

SI-FH0C

SL-R440 Shifting lever

SL-R441 Shifting lever

In order to realize the best performance, we recommend that the following combination be used.

Mounting the shifting lever

Gear shifting operation

Both lever (A) and lever (B) always return to the initial position when they are released after shifting. When operating one of the levers, always be sure to turn the crank arm at the same time.

To shift from a small chaining to a larger chaining

When lever (A) is pressed once, there is a shift of one step from a small chaining to a larger chaining.

Example:

- From intermediate chaining to largest chaining.

To shift from a large chaining to a smaller chaining

When lever (B) is pressed once, there is a shift of one step from a large chaining to a smaller chaining.

Example:

- To shift from intermediate chaining to smallest chaining.

Installing the shifting cable

Cutting the outer casing

Operate lever (B) two times or more, and check on the indicator that the lever is at the highest position. Then remove the inner hole cover and connect the inner cable.

Installing the inner cable

Attach the same outer end cap to the cut end of the outer casing.

Installing the inner hole cover by turning it as shown in the illustration until steps 2. Do not turn it any further than this, otherwise it may damage the screw thread.

Installing the inner hole cover by turning it as shown in the illustration until it stops.

Do not turn it any further than this, otherwise it may damage the screw thread.

Replacement of the shifting lever unit

Disassembly and reassembly should only be carried out when replacing the shifting lever unit.

1. Loosen the cable fixing bolt (nut) of the rear derailleur, and then pull the inner cable out of the shifting lever unit in the same way as when installing the inner cable.

2. Carry out steps 1 - 2 for replacement of the indicator.

3. Remove the three shifting lever mounting screws, and then remove the shifting lever unit as shown in the illustration.

4. To assemble, align the shifting lever unit and the brake lever bracket and then secure the shifting lever mounting screws.

5. Carry out steps 3 - 4 for replacement of the indicator.

Replacement of the indicator

Disassembly and reassembly should only be carried out when replacing the indicator.

1. Remove the two indicator set screws which are securing the indicator.

2. The indicator unit as shown in the illustration.

3. Operate lever (B) two times or more to set the lever to the lowest position.

4. After checking that the indicator needle is at the left edge, install the indicator as shown in the illustration.

5. Check the operation of the indicator. If it does not operate correctly, re-install the indicator by while taking particular note of steps 3. and 4.

Replacement of the shifting lever unit and indicator

Disassembly and reassembly should only be carried out when replacing the shifting lever unit.

1. Loosen the cable fixing bolt (nut) of the rear derailleur, and then pull the inner cable out of the shifting lever unit in the same way as when installing the inner cable.

2. Carry out steps 1 - 2 for replacement of the indicator.

3. Remove the three shifting lever mounting screws, and then remove the shifting lever unit as shown in the illustration.

4. 4. To assemble, align the shifting lever unit and the brake lever bracket and then secure the shifting lever mounting screws.

5. Carry out steps 3 - 4 for replacement of the indicator.

Cutting the outer casing

Operate lever (B) two times or more, and check on the indicator that the lever is at the highest position. Then remove the inner hole cover and connect the inner cable.

Installing the inner hole cover

Attach the same outer end cap to the cut end of the outer casing.

Installing the inner hole cover by turning it as shown in the illustration until it stops. Do not turn it any further than this, otherwise it may damage the screw thread.

Cutting the outer casing

Operate lever (A) two times or more, and check on the indicator that the lever is at the highest position. Then remove the inner hole cover and connect the inner cable.

Installing the inner hole cover

Install the inner hole cover by turning it as shown in the illustration until it stops. Do not turn it any further than this, otherwise it may damage the screw thread.

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