General Safety Information

▲ WARNING

- Obtain and read the service instructions carefully prior to installing the parts.
- Loose, worn, or damaged parts may cause injury to the rider. We strongly recommend only using genuine Shimano replacement parts.
- Obtain and read the service instructions carefully prior to installing the parts.
- If adjustments are not carried out correctly, the chain may come off and this may cause you to fall off the bicycle which could result in serious injury
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

Note

- For smooth operation, use the specified outer casing and bottom bracket cable guide.
- · Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- 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.
- · Operation of the levers related to gear shifting should be made only when the front chainwheel is turning
- Use an outer casing which still has some length to spare even when the handlebars are turned all the way to both sides. Furthermore, check that the shifting lever does not touch the bicycle frame when the handlebars are turned all the way.
- A special grease is used for the gear shifting cable (SIS-SP41). Do not use DURA-ACE grease or other types of grease, otherwise they may cause deterioration in gear shifting performance.
- Do not disassemble the indicator and shifting lever 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

Technical Service Instructions

SI-6KL0A-001

SL-R770

Shifting lever

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

SP41 20
20
FD-R770
FC-7800 / FC-6600 / FC-5600
RD-7800 / RD-6600 / RD-5600
FH-7800 / FH-6600 / FH-5600
CS-7800 / CS-6600 / CS-5600
CN-7801 / CN-6600 / CN-5600
SM-SP17

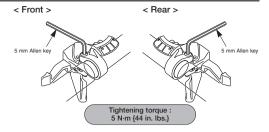
Shifting lever	SL-R770
Outer casing	SP41
Gears	30
Front derailleur	FD-R773-2 : for FC-7803 / 6603 (52T top chainring)
	FD-R773-0 : for FC-5603 (50T top chainring)
Front chainwheel	FC-7803 / FC-6603 / FC-5603
Rear derailleur	RD-7800 / RD-6600 / RD-5600
Freehub	FH-7800 / FH-6600 / FH-5600
Cassette sprocket	CS-7800 / CS-6600 / CS-5600
Chain	CN-7801 / CN-6600 / CN-5600
Bottom bracket cable guide	SM-SP17

This service instruction explains how to use and maintain the Shimano bicycle parts which have been used on your new bicycle. For any questions regarding your bicycle or other matters which are not related to Shimano parts please contact the place of purchase or the bicycle manufacturer.

Mounting the shifting lever

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

- Install the shifting lever in a position where it will not obstruct brake operation and gear shifting operation.
- Do not use in a combination which causes brake operation to be
- In the case of carbon handlebars, it may be necessary to lower the tightening torque in order to prevent damage to the handlebar Please consult the bicycle or handlebar manufacturer regarding the appropriate level of tightening torque for carbon handlebars.



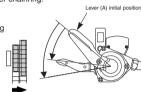
Gear shifting operation

Both lever (A) and lever (R) 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 chainring to a larger chainring

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

Example: from intermediate chainring to largest chainring.

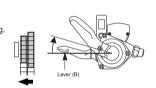


To shift from a large chainring to a smaller chainring

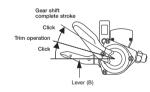
When lever (B) is pressed once, there is a shift of one step from a large chainring to a smaller chainring.

Example:

from largest chainring to intermediate chainring

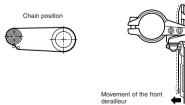


When lever (B) is operated, there is one click where trimming (the noise prevention mechanism) engages, and a second stronger click when the gear shift stroke is completed. After trimming, the next push will complete the gear shift stroke.



Trimming (noise prevention operation)

If the chain is on the large front chainwheel and the larger rear sprocket, the chain will rub in the front derailleur plate. producing a characteristic noise. When this happens, press lever (B) lightly (to the point where it clicks); this causes the front derailleur to move slightly towards the smaller chainwheel, thereby eliminating the noise



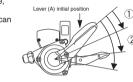
< Rear >

To shift from a small sprocket to a larger sprocket

To shift one step only, press lever (A) to the (1) position.

To shift two steps at one time, press to the (2) position

A maximum three-step shift can be made in this manner



Shifts one sprocket



2 : Quick-shifts two sprockets E.x.: from 3rd to 5th



③: Quick-shifts three sprockets E.x.: from 3rd to 6th



E.x.: from 4th to 3rd

from a larger to a smaller sprocket.



< Front >

Removal of the indicator

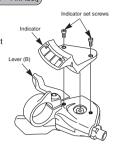
Disassembly and reassembly should only be carried out when replacing the indicator

Replacement of the shifting lever unit and indicator

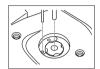
1. Remove the two indicator set screws which are securing the

Tightening torque: 0.3 - 0.5 N·m {3 - 4 in. lbs.}

- 2. Remove the indicator unit as shown in the illustration.
- 3. Operate lever (B) two times or more to set the lever to the lowes position.



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

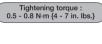


5. Check the operation of the indicator. If it does not operate correctly, re-install the indicator by while taking particular note of

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 front 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 stens 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 bracket and then secure the shifting lever mounting screws
- 5. Carry out steps 3 4 for replacement of the indicator.

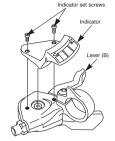
Removal of the indicator

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

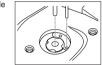
1. Remove the two indicator set screws which are securing the

Tightening torque: 0.3 - 0.5 N·m {3 - 4 in. lbs.}

- 2. Remove the indicator unit as shown in the illustration.
- 3. Operate lever (B) at least nine times to set the lever to the highest 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

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 bracket and then secure the shifting lever mounting screws.
- 5. Carry out steps 3 4 for replacement of the indicator.

Installing the shifting cable

Cutting the outer casing

When cutting the outer casing, cut the opposite end to the end with the marking. After cutting the outer casing, make the end round so that the inside of the hole has a uniform diameter



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



Installing the inner cable < Front > Operate lever (B) two times or more

and check on the indicator that the lever is at the lowest position. Then remove the inner hole cover and connect the inner cable





otherwise it may damage the screy

0.3 - 0.5 N·m {3 - 4 in. lbs.}



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 < Rear >

Operate lever (B) nine times or more

Tightening torque : 5 - 7 N·m {44 - 60 in. lbs.}

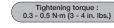


Install the inner hole cover by turning it as shown in the illustration until it Do not turn it any further than this

otherwise it may damage the screw



it as shown in the illustration until it Do not turn it any further than this





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