

## Dealer's Manual

# REVOSHIFT Shifter

SL-RS47  
SL-RS45  
SL-RS36  
SL-RS35  
SL-RS34  
SL-RS25

## IMPORTANT NOTICE

- **This dealer's manual is intended primarily for use by professional bicycle mechanics.**

Users who are not professionally trained for bicycle assembly should not attempt to install the components themselves using the dealer's manuals.

If any part of the information on the manual is unclear to you, do not proceed with the installation. Instead, contact your place of purchase or a local bicycle dealer for their assistance.

- Make sure to read all instruction manuals included with the product.
- Do not disassemble or modify the product other than as stated in the information contained in this dealer's manual.
- All dealer's manuals and instruction manuals can be viewed on-line on our website (<http://si.shimano.com>).
- Please observe the appropriate rules and regulations of the country, state or region in which you conduct your business as a dealer.

**For safety, be sure to read this dealer's manual thoroughly before use, and follow it for correct use.**

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings.

The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.

 **DANGER**

Failure to follow the instructions will result in death or serious injury.

 **WARNING**

Failure to follow the instructions could result in death or serious injury.

 **CAUTION**

Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.


# TO ENSURE SAFETY

## WARNING

- When installing components, be sure to follow the instructions that are given in the instruction manuals.

It is recommended that you use only genuine Shimano parts. If parts such as bolts and nuts become loose or damaged, the bicycle may suddenly fall over, which may cause serious injury.

In addition, if adjustments are not carried out correctly, problems may occur, and the bicycle may suddenly fall over, which may cause serious injury.

-  Be sure to wear safety glasses or goggles to protect your eyes while performing maintenance tasks such as replacing parts.
- After reading the dealer's manual thoroughly, keep it in a safe place for later reference.

## NOTE

### Be sure to also inform users of the following:

- Be sure to keep turning the crank during the lever operation.
- You should periodically wash the chainrings in a neutral detergent. In addition, cleaning the chain with neutral detergent and lubricating it can be an effective way of extending the useful life of the chainrings and the chain.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

### For Installation to the Bicycle, and Maintenance:

- When using a friction-supported front derailleur, use it with one of the following shifting levers.

Shifting lever	SL-RS36-LN / SL-RS35-LN / SL-RS34-LN / SL-RS25-LN	SL-RS47-L / SL-RS45-L / SL-RS36-L / SL-RS35-L
Front derailleur		
FD-TZ31 / FD-TZ30 / FD-TZ21 / FD-TZ20	OK	Not OK

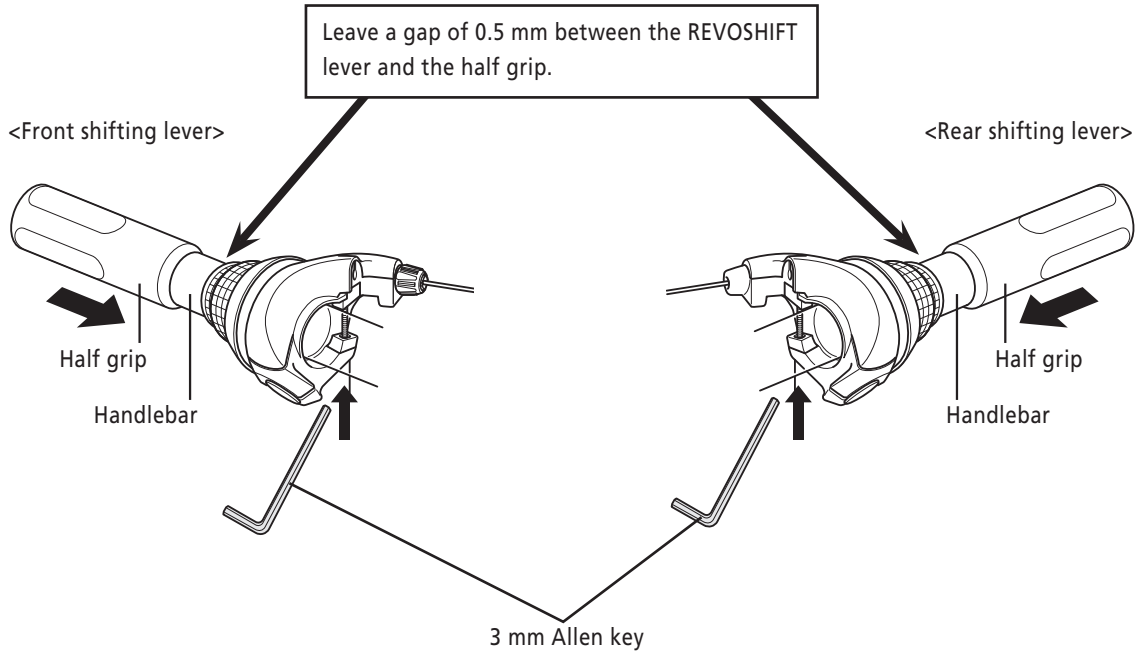
The actual product may differ from the illustration because this manual is intended chiefly to explain the procedures for using the product.

# INSTALLATION

## ■ Mounting the shifting lever

1. Install the shifting lever in a position where it will not obstruct brake operation.

- Do not use in a combination which causes brake operation to be obstructed.



Model	Tightening torque
SL-RS25	2.5 - 3 N·m
SL-RS35	{22 - 26 in. lbs.}
SL-RS34	2 - 2.5 N·m
SL-RS36	2 - 2.5 N·m
SL-RS45	{18 - 21 in. lbs.}
SL-RS47	

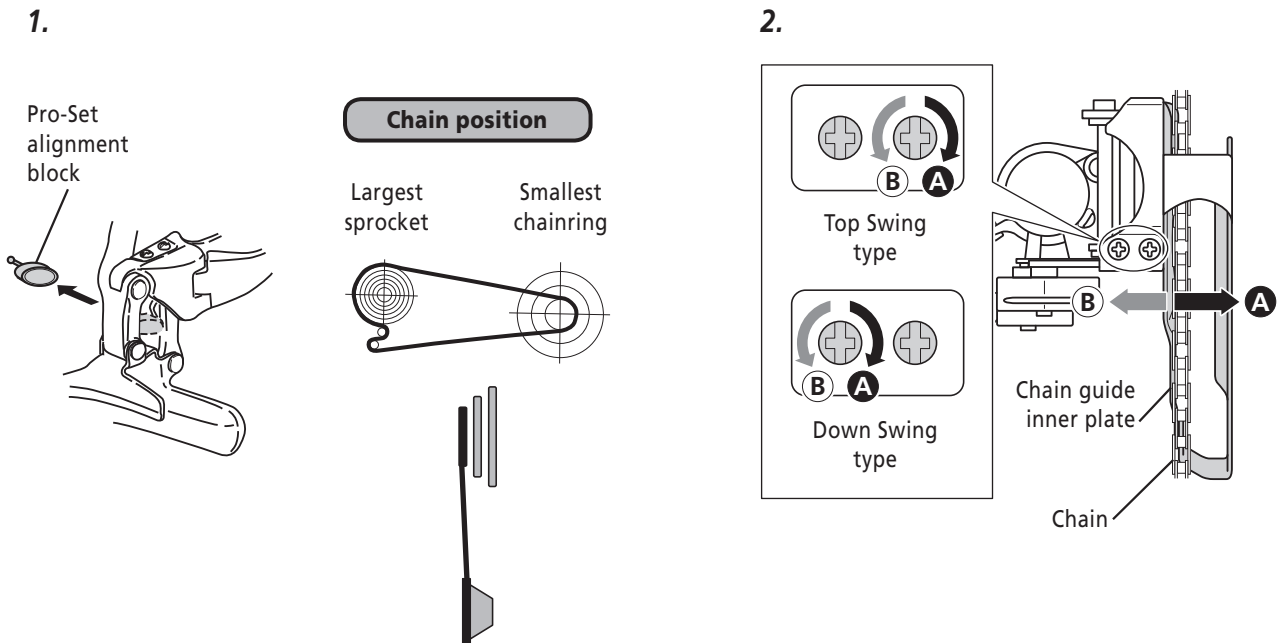
# ADJUSTMENT

Be sure to follow the sequence described below.

## ■ Adjustment of the front shifting lever

### (1) Low adjustment

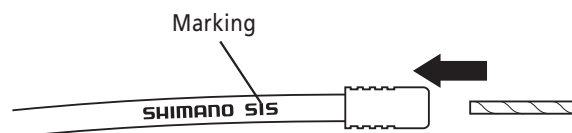
1. For models equipped with a Pro-Set alignment block, first remove the Pro-Set alignment block.
2. Next, set so that the clearance between the chain guide inner plate and the chain is 0 - 0.5 mm.



### (2) Connection and securing of cable

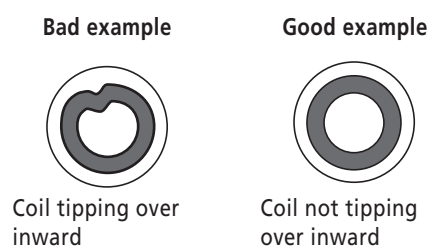
#### Inserting the inner cable

- Insert the inner cable into the outer casing from the end with the marking on it.
- Apply grease from the end with the marking in order to maintain cable operating efficiency.

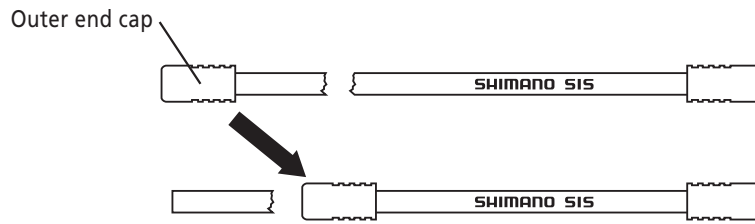


#### Cutting the outer casing

- 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.

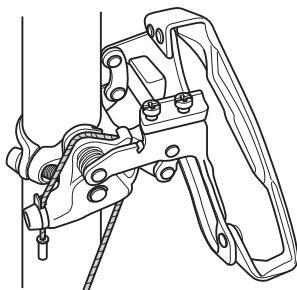


**1.** While firmly pulling the cable, tighten the wire fixing bolt to secure the cable.

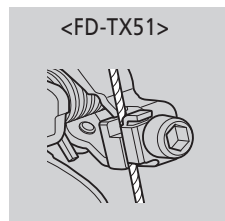
- **FD-TY10:** Use a 9 mm spanner.
- **FD-TX51 / FD-TX50:** Use a 5 mm Allen key.

**Tightening torque:**  
5.0 - 7.0 N·m {44 - 61 in. lbs.}

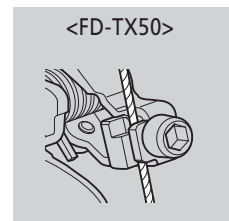
< Top Swing type >



<Normal type>



<FD-TX51>



<FD-TX50>

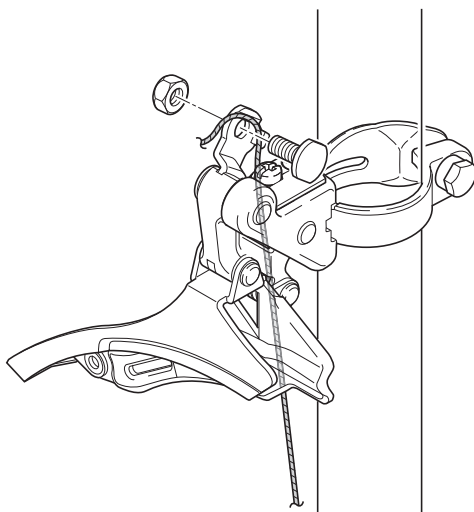
**Note:**

Pass the cable through as shown in the illustration.

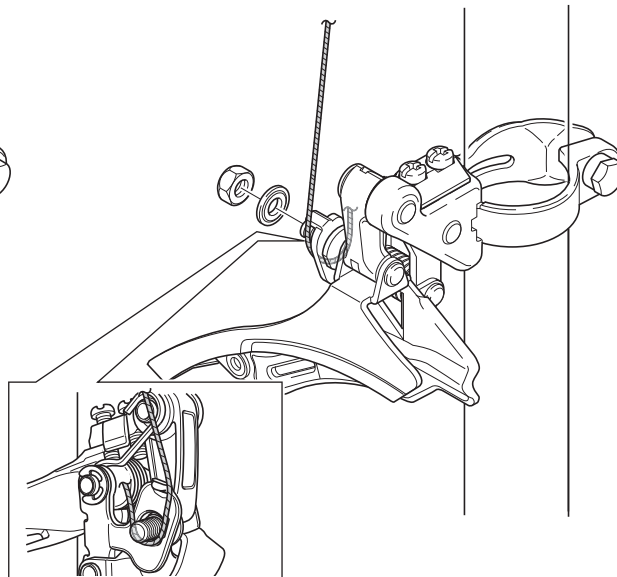
- **FD-TZ31 / FD-TZ30:** Use a 9 mm spanner.

**Tightening torque:**  
10.0 N·m {87 in. lbs.}

<Normal type>

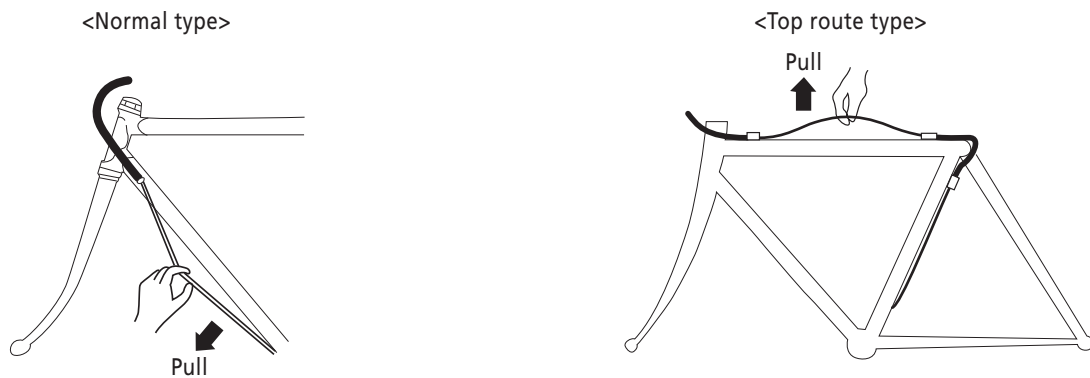


< Top route type >



### (3) Adjustment of cable tension

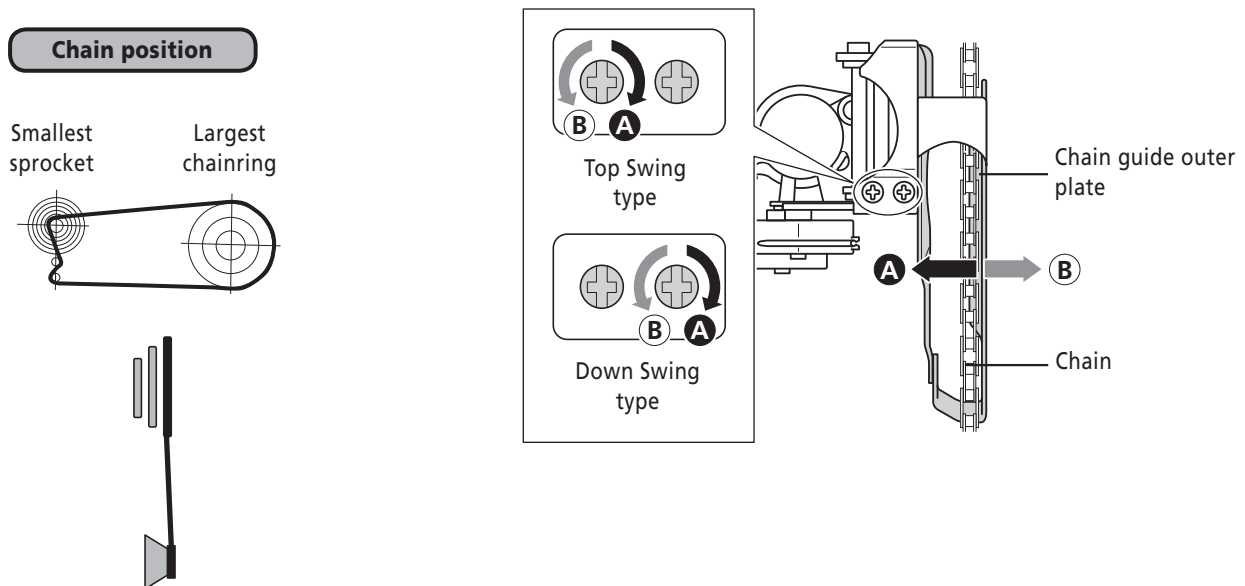
1. After taking up the initial slack in the cable, re-secure to the front derailleur as shown in the illustration.



2. Cut off the excess length of inner cable and then install the inner end cap.

### (4) Top adjustment

1. Set so that the clearance between the chain guide outer plate and the chain is 0 - 0.5 mm.

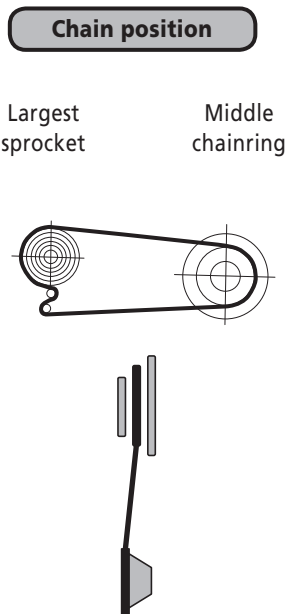


## (5) Adjustment of the middle chainring

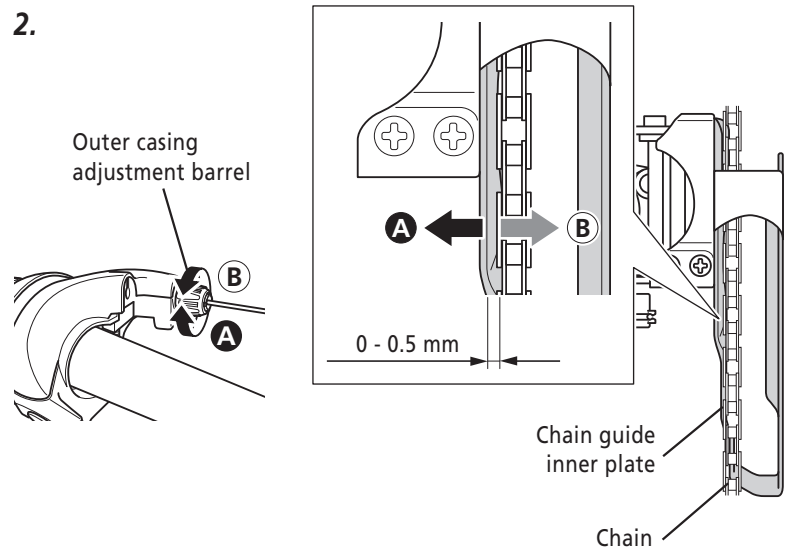
This adjustment is not necessary because LN (friction type) does not have an outer adjustment bolt.

1. Set the chain onto the largest sprocket, and at the front, move the chain from the largest chainring to the middle chainring.
2. Adjust using the outer casing adjustment barrel so that the clearance between the chain guide inner plate and the chain is 0 - 0.5 mm.

1.



2.





## (6) Troubleshooting chart

After completion of steps (1) - (5), move the shifting lever to check the shifting.  
(This also applies if shifting becomes difficult during use.)

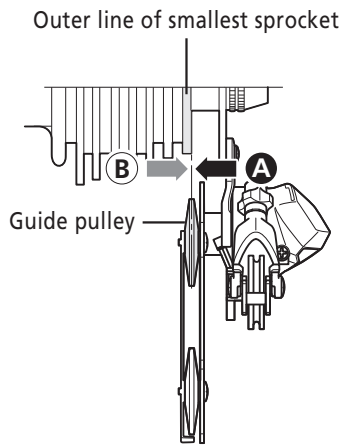
If the chain falls to the crank side.	▶	Turn the top adjustment screw clockwise.
If shifting is difficult from the middle chainring to the largest chainring.	▶	Tighten the cable. If this does not improve the condition, turn the top adjustment screw counterclockwise.
If shifting is difficult from the middle chainring to the smallest chainring.	▶	Turn the low adjustment screw counterclockwise.
If there is interference between the chain and the front derailleur inner plate at the largest chainring.	▶	Turn the top adjustment screw clockwise.
If there is interference between the chain and the front derailleur outer plate at the largest chainring.	▶	Tighten the cable. If this does not improve the condition, turn the top adjustment screw counterclockwise.
If the middle chainring is skipped when shifting from the largest chainring.	▶	Tighten the cable.
If there is interference between the chain and front derailleur inner plate when the rear sprocket is shifted to the largest sprocket when the chainwheel is at the middle chainring position.	▶	Loosen the cable.
If shifting is difficult from the largest chainring to the middle chainring.	▶	
If the chain falls to the bottom bracket side.	▶	Turn the low adjustment screw clockwise.

## ■ Adjustment of the rear shifting lever

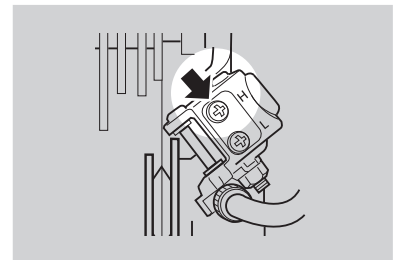
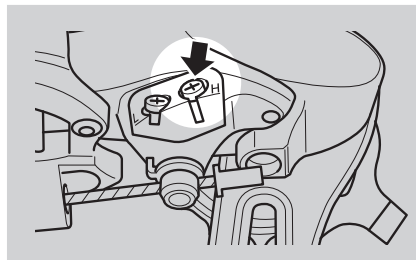
### (1) Top adjustment

1. Turn the top adjustment screw for adjustment so that the guide pulley is positioned over the outer line of the smallest sprocket when viewed from behind.

\* The position of the top adjustment screw differs depending on the model.



< Example >

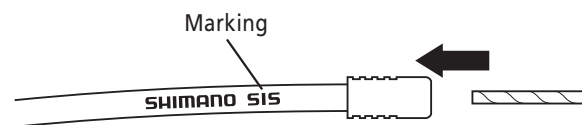


2. After this, install the chain.

### (2) Connection and securing of cable

#### Inserting the inner cable

- Insert the inner cable into the outer casing from the end with the marking on it.
- Apply grease from the end with the marking in order to maintain cable operating efficiency.



#### 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.

#### Bad example



Coil tipping over inward

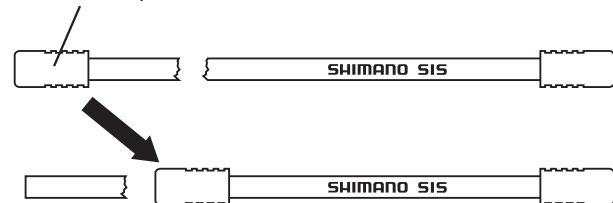
#### Good example



Coil not tipping over inward

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

#### Outer end cap

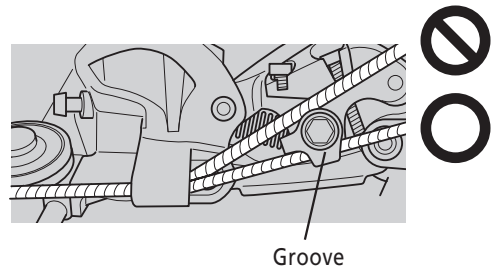


1. Connect the cable to the rear derailleur.

**Tightening torque:**  
5.0 - 7.0 N·m {44 - 61 in. lbs.}

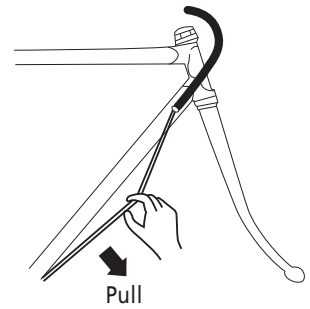
**Note:**

Be sure that the cable is securely in the groove.



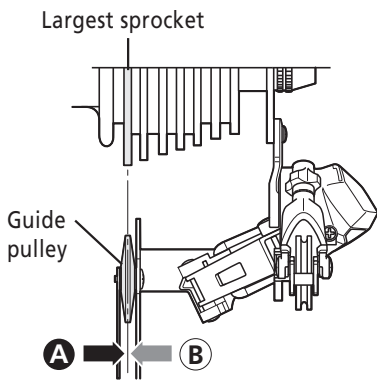
### (3) Adjustment of cable tension

1. After taking up the initial slack in the cable, re-secure to the rear derailleur as shown in the illustration.

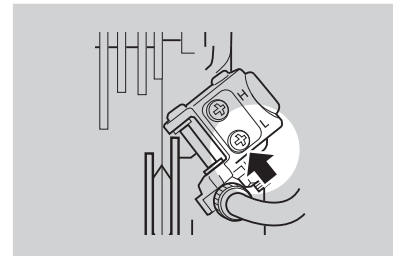
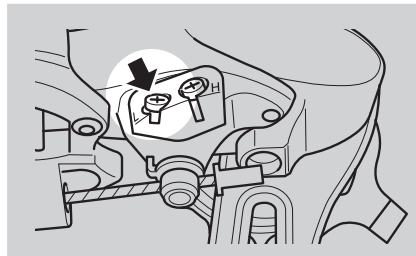


### (4) Low adjustment

1. While turning the front chainwheel, operate the lever to shift to the lowest gear.
2. Turn the low adjustment screw for adjustment so that the guide pulley is positioned directly under the largest sprocket.  
\* The position of the low adjustment screw differs depending on the model.



< Example >



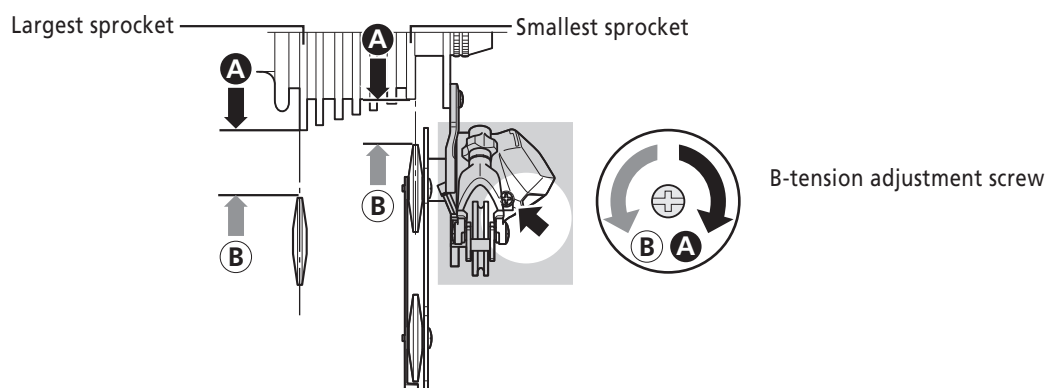
## (5) How to use the B-tension adjustment screw

### <RD-TX75 / RD-TX55 / RD-TX35>

1. Mount the chain on the smallest chainring and the largest sprocket, and turn the crank arm backward.
2. Then turn the B-tension adjustment screw to adjust the guide pulley as close to the sprocket as possible but not so close that it touches.
3. Next, set the chain to the smallest sprocket and repeat the above to make sure that the chain tension is correct.

### <RD-TZ50>

1. In order to obtain suitable gear shifting performance, set the chain onto the smallest chainring and the largest sprocket.
2. Then turn the B-tension adjustment screw to adjust so that the distance between the tip of the freewheel and the tip of the guide pulley is about 10 mm.
3. Next, set the chain onto the smallest sprocket and repeat the above to make sure that the chain tension is correct.

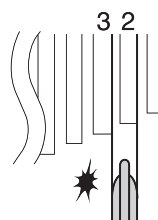
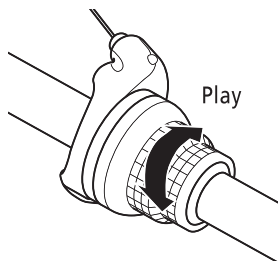


## ■ SIS Adjustment

1. Operate the shifting lever once to move the chain from the smallest sprocket to the 2nd sprocket.
2. Then, while operating the lever just enough to take up the play in the lever, turn the crank arm.



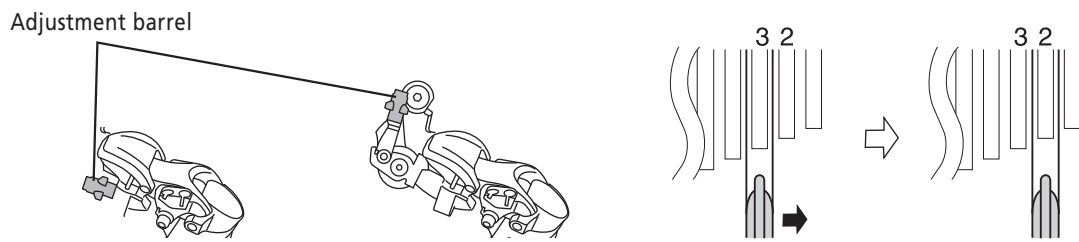
- The best setting is when the shifting lever is operated just enough to take up the play and the chain touches the 3rd sprocket counting from the smallest sprocket and makes noise.



- **When shifting to the 3rd sprocket counting from the smallest sprocket**

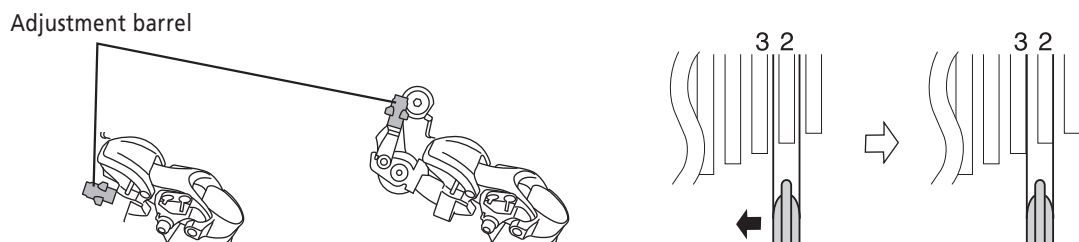
Tighten the outer casing adjustment barrel until the chain returns to the 2nd sprocket counting from the smallest sprocket.

\* The position of the outer casing adjustment barrel differs depending on the model.



- **When no sound at all is heard**

Loosen the outer casing adjustment barrel until the chain touches the 3rd sprocket counting from the smallest sprocket and makes noise.



**3.** Return the lever to its original position (the position where the lever is at the 2nd sprocket setting counting from the smallest sprocket and it has been released) and then turn the crank arm clockwise.

- If the chain is touching the 3rd sprocket counting from the smallest sprocket and making noise, turn the outer casing adjustment barrel clockwise slightly to tighten it until the noise stops and the chain runs smoothly.

**4.** Operate lever to change gears, and check that no noise occurs in any of the gear positions.

**5.** For the best SIS performance, periodically lubricate all power-transmission parts.

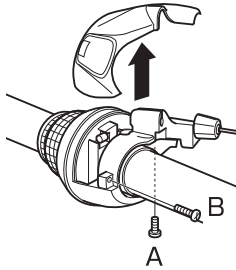
# MAINTENANCE

## ■ Replacing the inner cable

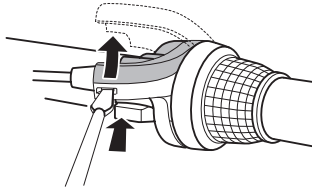
1. Operate the shifter to set it to the top (rear) / low (front) position.
2. Loosen the screws at point A and B with a screw driver in order to remove the cover.

< Front shifting lever >

For SL-RS47 / SL-RS45 /  
SL-RS36 / SL-RS34

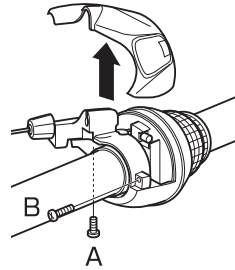


For SL-RS35 / SL-RS25

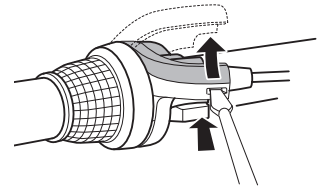


< Rear shifting lever >

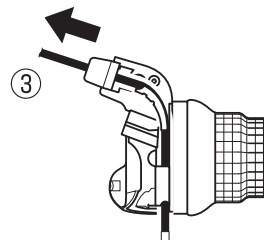
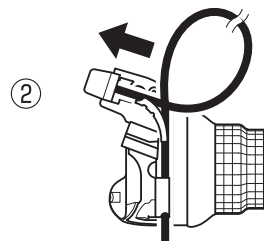
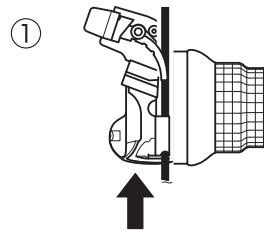
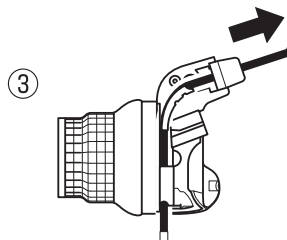
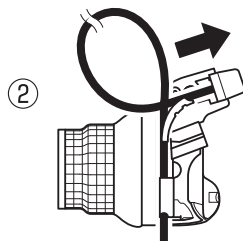
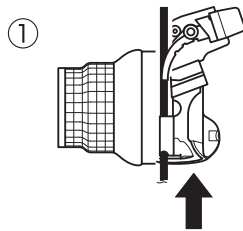
For SL-RS47 / SL-RS45 /  
SL-RS36 / SL-RS34



For SL-RS35 / SL-RS25



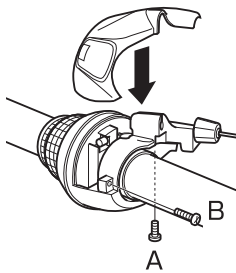
3. Replace the inner cable by carrying out steps ① to ③ as shown in the illustrations.



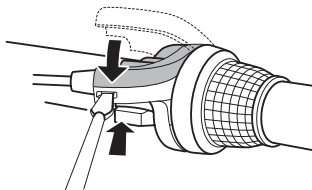
**4.** Install the cover and tighten the two screws A and B with the screwdriver.

< Front shifting lever >

For SL-RS47 / SL-RS45 /  
SL-RS36 / SL-RS34

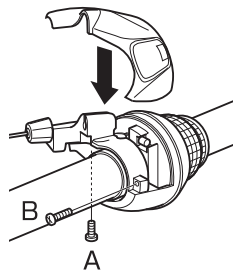


For SL-RS35 / SL-RS25

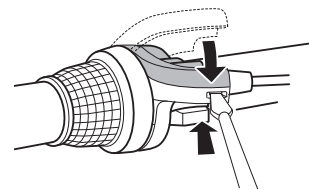


< Rear shifting lever >

For SL-RS47 / SL-RS45 /  
SL-RS36 / SL-RS34



For SL-RS35 / SL-RS25



Phillips screwdriver # 1

**SL-RS47 / SL-RS45 / SL-RS36:**

**Tightening torque:**

**A: 0.10 - 0.25 N·m {0.9 - 2.2 in. lbs.}**

**B: 0.10 - 0.25 N·m {0.9 - 2.2 in. lbs.}**

**SL-RS34:**

**Tightening torque:**

**A: 0.10 - 0.20 N·m {0.9 - 1.7 in. lbs.}**

**B: 0.10 - 0.20 N·m {0.9 - 1.7 in. lbs.}**

# SHIMANO

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

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