

Dealer's Manual

ROAD	MTB	Trekking
City Touring/ Comfort Bike	URBAN SPORT	E-BIKE

Shifting lever

SLX

SL-M7000

DEORE

SL-M6000

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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.



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




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

TO ENSURE SAFETY

WARNING

- **Be sure to follow the instructions provided in the manuals when installing the product.**
It is recommended to use genuine Shimano parts only. 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.

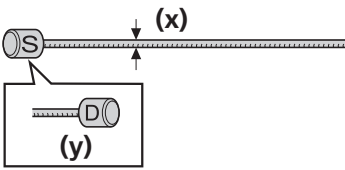
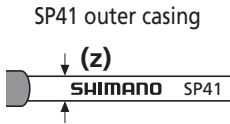
NOTE

Be sure to also inform users of the following:

- Be sure to keep turning the crank during the shifting lever operation.
- If gear shifting operations do not feel smooth, wash the derailleur and lubricate all moving parts.
- 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:

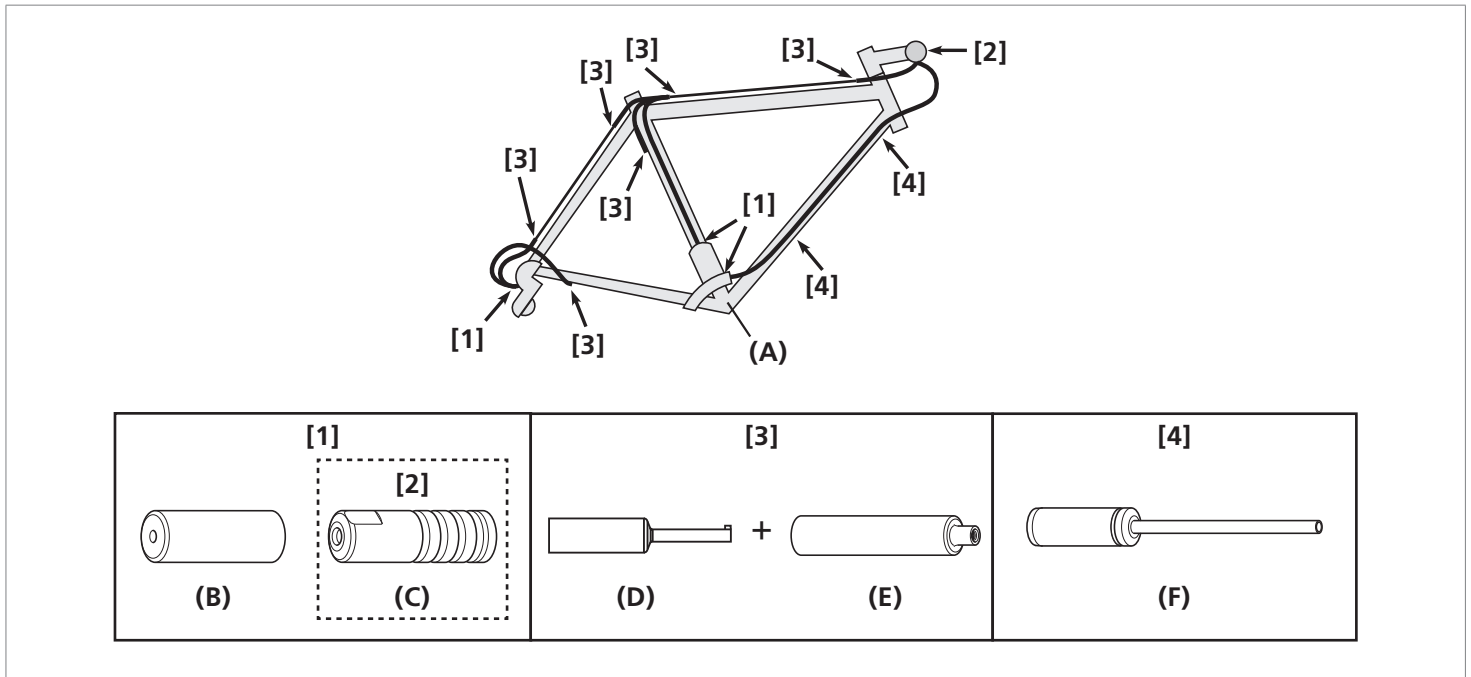
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- Use an outer casing [OT-SP41] and a cable guide (SM-SP17/SP18) for smooth operation.
- A special grease is used for the gear shifting cable. Do not use premium grease or other types of grease, otherwise they may cause deterioration in gear shifting performance.
- 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.
- If gear shifting adjustments cannot be carried out, check the alignment of the fork end and check if the cable is lubricated or if the outer casing is too long or too short.
- List of cables used

	Dedicated inner cable	Recommended outer casing
SL-M7000 SL-M6000		
	<p>(x) Ø1.2mm</p> <p>(y) Opposite side</p>	(z) Ø4mm

* Refer to the list of recommended outer caps.

* Do not let dust adhere on the inner cable. If the grease on the inner cable is wiped off, the application of SIS SP41 grease (Y04180000) is recommended.

• Chart of recommended outer caps



(A) Bottom bracket cable guide







Type of cap			Remarks
[1]	(B)	Sealed outer cap (aluminum type)	FD/RD side FD applies to sealed outer caps of direct mount type with down swing specifications and sealed outer caps of side swing type
	[2]	Sealed outer cap (resin type)	Derailleur side
[3]	(D)	Sealed outer cap with tongue	Outer casing holder on frame side
	(E)	Rubber shield	
[4]	(F)	Outer cap with long tongue	Applies if the outer cable angle is large in the case of built-in frame routing If the inner cable is in contact with metallic parts of the frame in the case of a frame with built-in cable routing

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

LIST OF TOOLS TO BE USED

LIST OF TOOLS TO BE USED

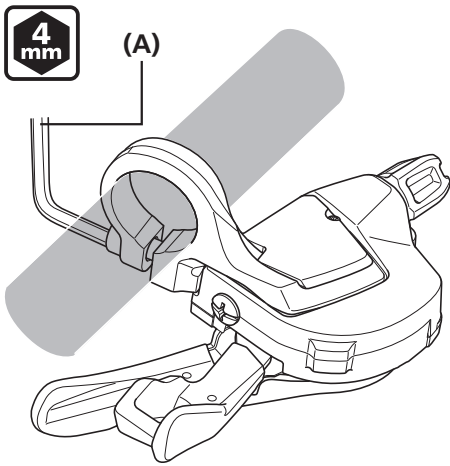
The following tools are needed for installation, adjustment, and maintenance purposes.

Tool		Tool		Tool	
	2mm hexagon wrench		4mm hexagon wrench		Screwdriver[#1]
	3mm hexagon wrench		7mm spanner		Screwdriver[#2]

INSTALLATION


INSTALLATION

■ Installation to the handlebar (Normal type)



Use a handlebar grip with an outer diameter of Ø36mm or less.

(A) 4mm hexagon wrench

Tightening torque	
	3 - 4 N·m

NOTE

When installing components to a carbon frame (handlebars), there is a risk of causing damage to the frame (handlebars) or inadequate fixing force, even at the recommended tightening torque. Verify the appropriate torque to apply with the bicycle or frame (handlebar) manufacturer.

- Install in a position where brake and gear shifting operations are not obstructed.
- Do not use in a combination which causes brake operation to be obstructed.

■ Installation to the handlebar (I-spec II/I-spec B)

Compatibility of shifting lever and brake lever

		BL	
		Type II	Type B
SL	I-spec II (SL-Mxxxx-IL/IR*)	X	-
	I-spec B (SL-Mxxxx-B-IL/IR*)	-	X

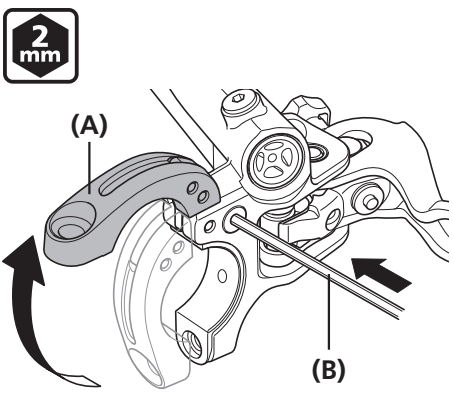
X: OK

* "xxxx" represents the model number.

For product specifications check the website (<http://productinfo.shimano.com/specifications.html>).

I-spec II

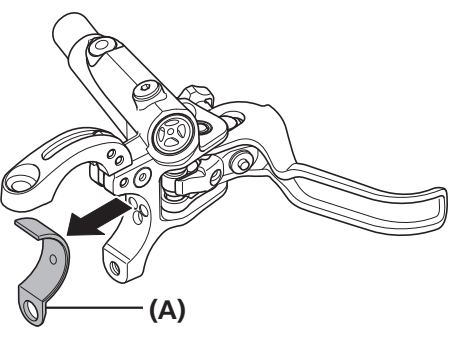
1



Use a 2mm hexagon wrench to open the clamp band of the brake lever as shown in the illustration.

(A) Clamp band
(B) 2mm hexagon wrench

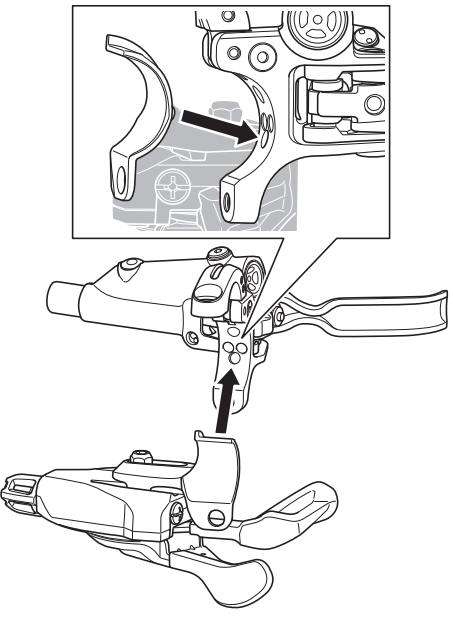
2



Remove the adapter attached to the inside of the clamp band. Remove any remaining adhesive.

(A) Adapter

3

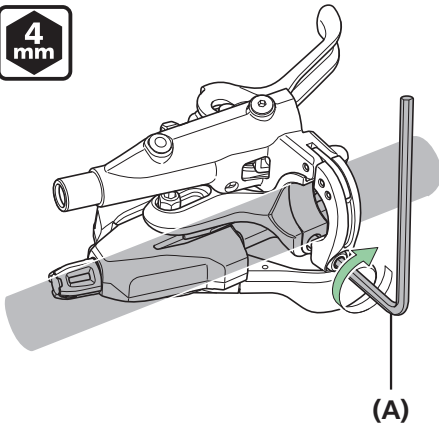


Insert the protrusion on the shifting lever bracket into the hole in the brake lever bracket.

INSTALLATION

▶▶ Installation to the handlebar (I-spec II/I-spec B)

4
mm



Use a 4mm hexagon wrench to secure the clamp band of the brake lever.

(A) 4mm hexagon wrench

Tightening torque

4
mm

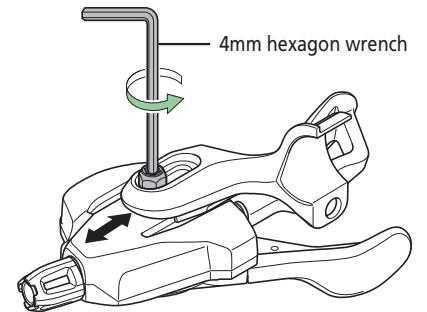
6 - 8 N·m

TECH TIPS

The position of the shifting lever for SL-M7000 can be adjusted by sliding it horizontally. Use a 4mm hexagon wrench or 7mm spanner to loosen the unit adjustment screw and adjust the position.

4
mm

7
mm



Tightening torque

4
mm

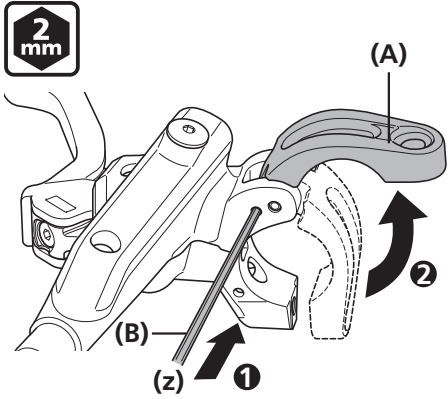
7
mm

2.5 - 3.5 N·m

4

I-spec B

1

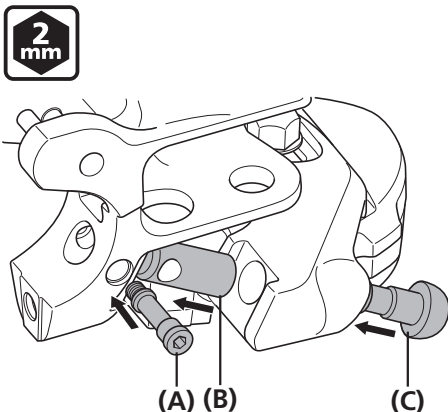


Use a 2mm hexagon wrench to open the clamp band of the brake lever as shown in the illustration.

(z) Push


- (A) Clamp band
- (B) 2mm hexagon wrench

2

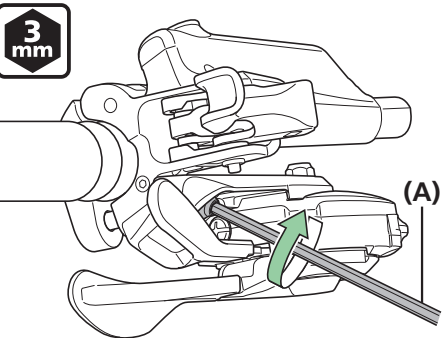


Insert the nut into the hole in the brake lever bracket, insert the bolt (small) from the side into the hole in the nut and tighten using a 2mm hexagon wrench. After that, attach the shifting lever with the bolt.

- (A) Bolt (small)
- (B) Nut
- (C) Bolt


Tightening torque	
	1 - 1.5 N·m

3



Fix it to the brake lever with the dedicated nut and bolt using a 3mm hexagon wrench.

- (A) 3mm hexagon wrench

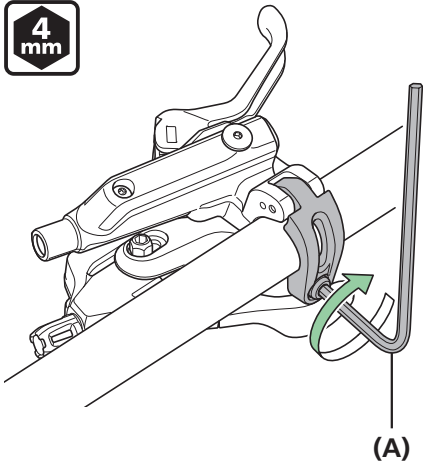
Tightening torque	
	4 - 5 N·m

INSTALLATION

▶ Installation to the handlebar (I-spec II/I-spec B)

4

4 mm



Use a 4mm hexagon wrench to secure the clamp band of the brake lever.

(A) 4mm hexagon wrench

Brake lever tightening torque

4 mm

6 - 8 N·m

BL-M987 Brake lever tightening torque

4 mm

4 - 6 N·m



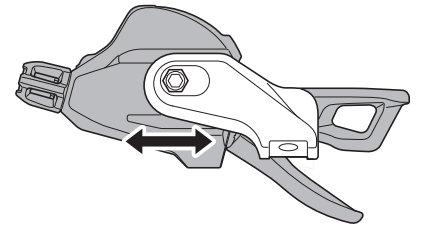
TECH TIPS

Shifting lever position is adjustable by sliding to left or right.

Use a 4mm hexagon wrench or 7mm spanner to loosen the unit adjustment screw and adjust the position.

4 mm

7mm



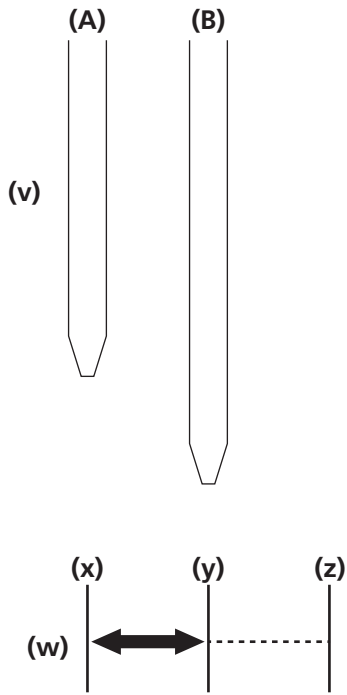
Tightening torque

4 mm

2.5 - 3.5 N·m

7mm

Note: Number of front chainring positions and the lever position



For double front chainrings, the procedure for shifting lever operation is as shown in the illustration.

- Use the low and middle positions of the shifter. The top position is not used.

- (v)** Front chainring position
- (w)** Shifting lever position
- (x)** Low
- (y)** Middle
- (z)** Top

- (A)** Smallest chainring
- (B)** Largest chainring



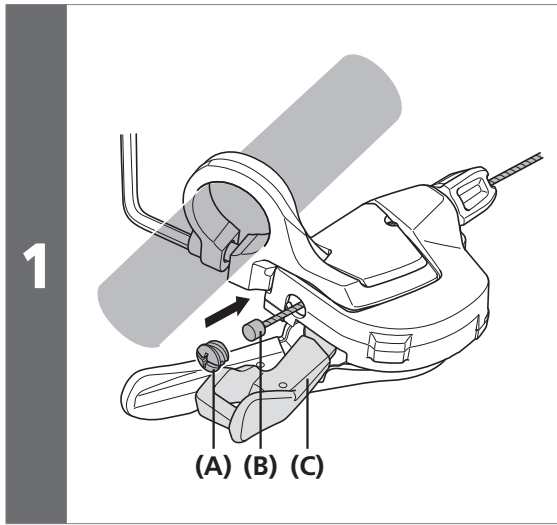
SL-M7000/SL-M6000 is not equipped with a mode converter (front double/front triple conversion system).

For information on how to use the shifting lever, refer to the dealer's manual for the front derailleur.

MAINTENANCE

MAINTENANCE

■ Replacing the inner cable

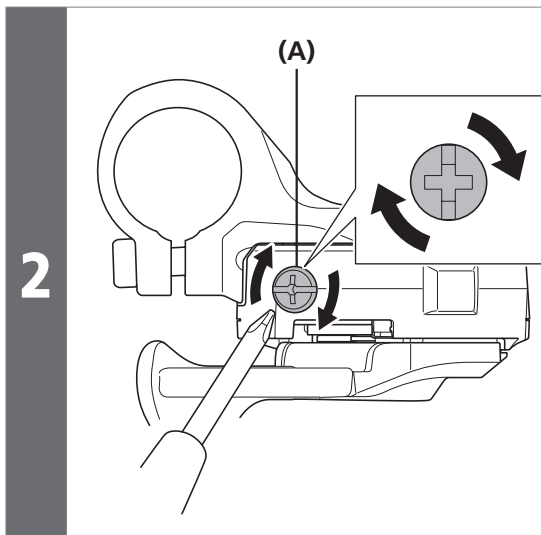


Operate the lever shown in the illustration to engage the smallest chainring and sprocket. Then remove the wire end hooking cap and install the cable.

* The illustration is of the rear lever.

Specifications	Lever operation count
2-speed	1 or more times
3-speed	2 or more times
10-speed	9 or more times
11-speed	10 or more times

- (A) Wire end hooking cap
- (B) Cable
- (C) Lever



Install the wire end hooking cap by turning it as shown in the illustration until it stops. Do not turn it any further than this otherwise it may damage the thread on the cap.

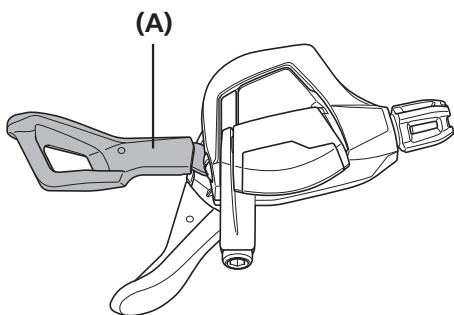
- (A) Wire end hooking cap

■ Replacement and re-arrangement of the indicator unit

Some models do not have an indicator unit.

SLX

1

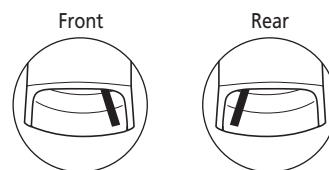


Operate the release lever 3 or more times (10 or more times for the rear).

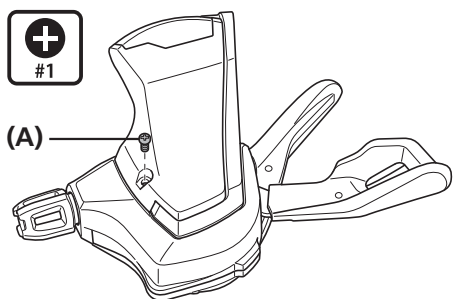
(A) Release lever

NOTE

- The illustration is of the front lever.
- Make sure that the indicator needle is in the position shown in the illustration.



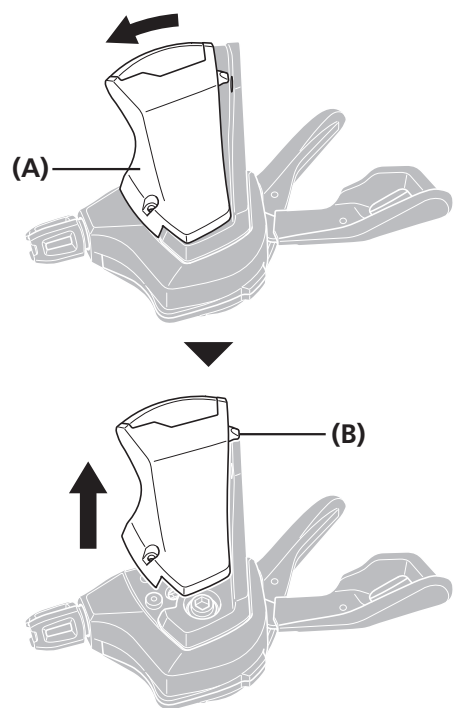
2



Remove the indicator fixing screw.

(A) Indicator fixing screw

3

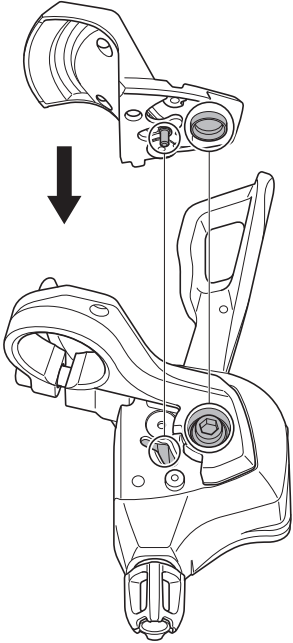


Slide the indicator unit in the direction of the arrow to remove it.

(A) Indicator unit
(B) Hook

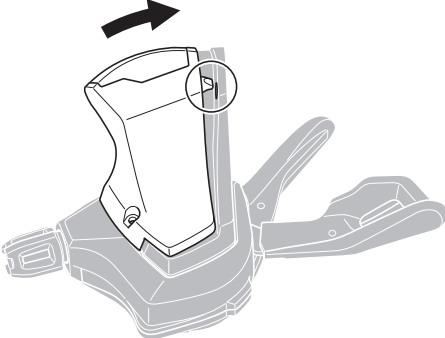
▶ Replacement and re-arrangement of the indicator unit

4



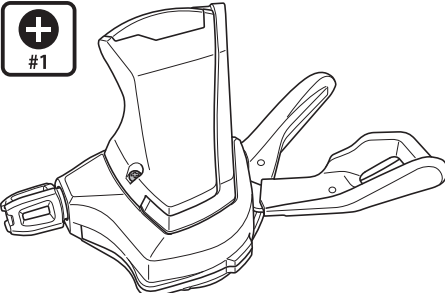
Align the protrusions of the indicator unit with the hollows on the main body.

5



Slide the indicator unit in the direction of the arrow and insert the hook.

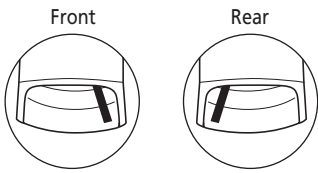
6




Secure with the indicator fixing screw. Operate it to check the operation. If it does not operate correctly, reassemble the unit while paying attention to the operation of the lever and the position of the indicator needle.

NOTE

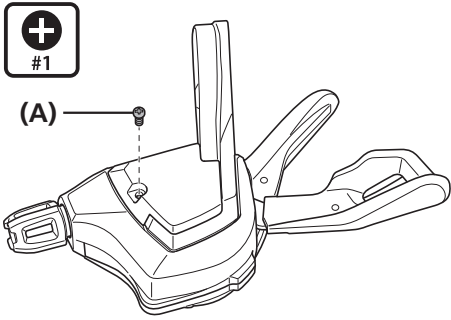
- Before assembly, operate the release lever 3 or more times (10 or more times for the rear).
- Make sure that the indicator needle is in the position shown in the illustration.



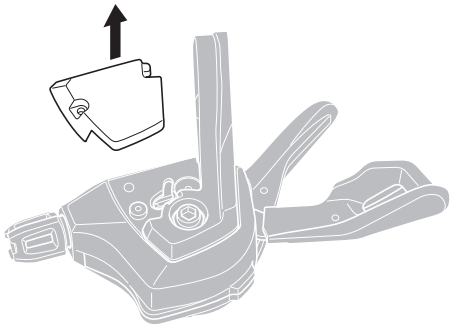
Tightening torque	
	0.15 - 0.2 N·m

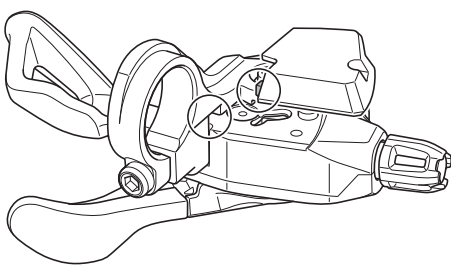
If there is no indicator unit

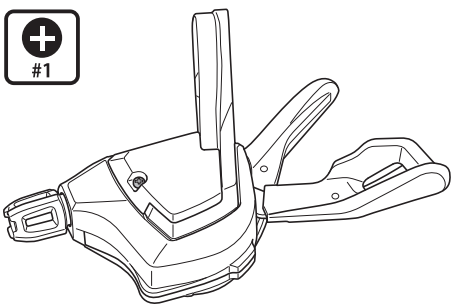
This step may not be required depending on the model.


1	 <p>(A)</p>	Remove the cover mounting screw.
---	--	----------------------------------

(A) Mounting screw

2		Remove the cover.
---	--	-------------------

3		Insert the hook of the cover into the hole of the main body to install the cover.
---	---	---

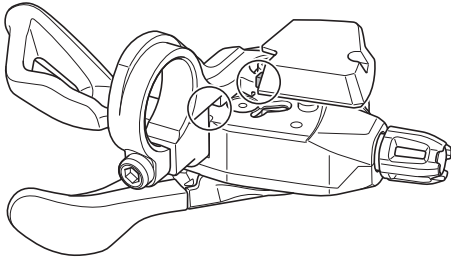
4		Secure with the mounting screw.
---	---	---------------------------------

Tightening torque	
	0.15 - 0.2 N·m

Re-arrangement to a configuration with no indicator unit (cover sold separately)

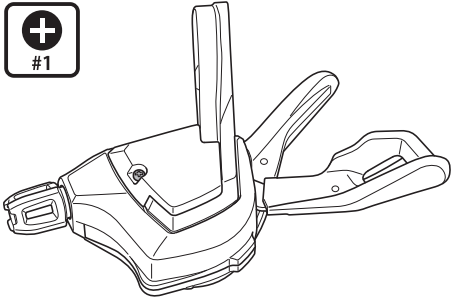
Carry out the following procedure to change from a type with the indicator unit attached to a type without the indicator unit.

1




With the indicator unit removed, insert the hook of the cover that is sold separately into the hole of the main body to install the cover.

2

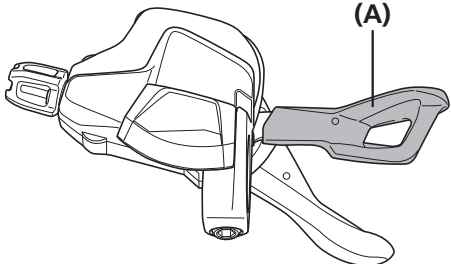


Secure with the mounting screw of the cover.

Tightening torque	
	0.15 - 0.2 N·m

DEORE

1

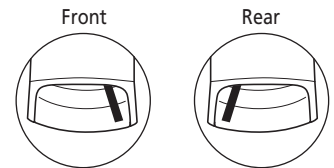


Operate the release lever 3 or more times (10 or more times for the rear).

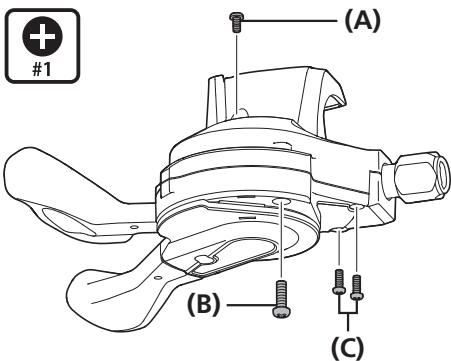
(A) Release lever

NOTE

- The illustration is of the front lever.
- Make sure that the indicator needle is in the position shown in the illustration.



2



Remove the 4 indicator fixing screws.

(A) Indicator fixing screw

(B) Shifting lever unit mounting screw (medium)

(C) Shifting lever unit mounting screw (small)

▶ Replacement and re-arrangement of the indicator unit

3

Remove the indicator unit in the direction of the arrow.

(A) Indicator unit

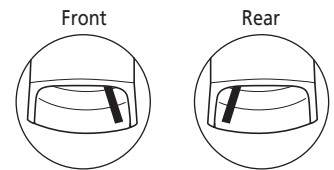
4

Install the indicator unit by first engaging the hook.

(A) Hook

NOTE

- Before assembly, operate the release lever 3 or more times (10 or more times for the rear).
- Make sure that the indicator needle is in the position shown in the illustration.



5

Secure with the indicator fixing screw. Operate it to check the operation. If it does not operate correctly, reassemble the unit while paying attention to the operation of the lever and the position of the indicator needle.

- (A)** Indicator fixing screw
- (B)** Shifting lever unit mounting screw (medium)
- (C)** Shifting lever unit mounting screw (small)

Tightening torque (A) (C)	
	0.15 - 0.2 N·m

Tightening torque (B)	
	0.1 - 0.15 N·m

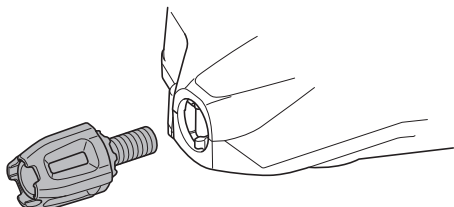
■ Replacement and assembly of the shifting lever unit

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

SLX

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

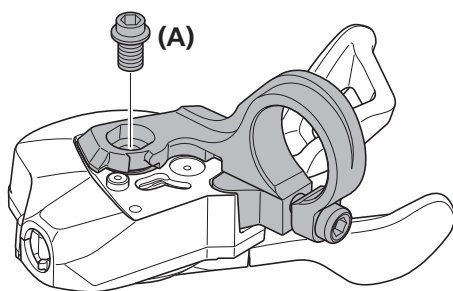
2



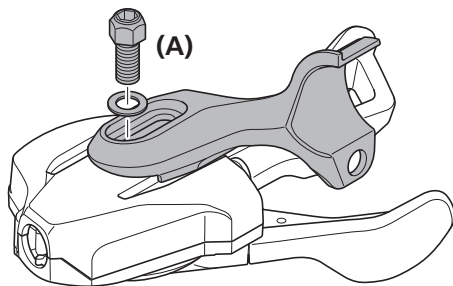
Remove the adjustment bolt.

Remove the unit fixing bolt.

For normal type

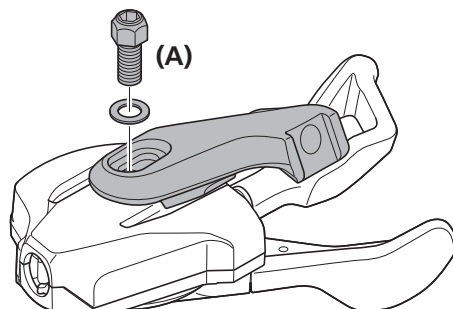


For I-spec II



3

For I-spec B



(A) Unit fixing bolt (normal type)

Tightening torque



2.5 - 3.5 N·m

NOTE

Remove the indicator unit first for models which have an indicator unit.

(A) Unit fixing bolt

Tightening torque



2.5 - 3.5 N·m



NOTE

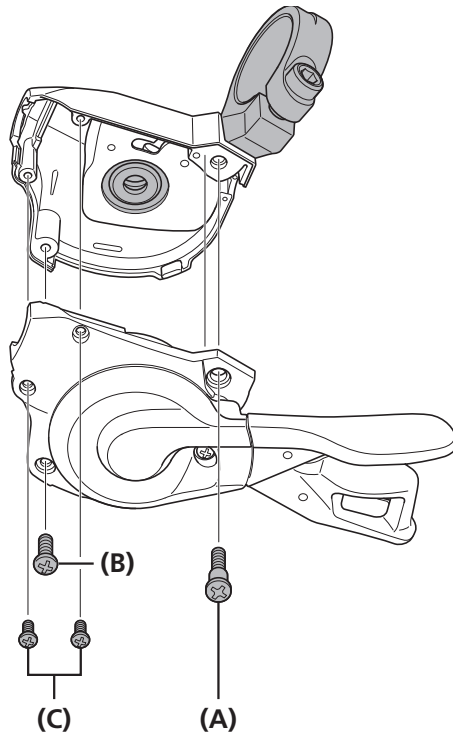
Remove the indicator unit first for models which have an indicator unit.

▶ Replacement and assembly of the shifting lever unit

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

* When installing a shifting lever unit, perform the procedure in reverse.

For normal type



- (A) Shifting lever unit mounting screw (large)
- (B) Shifting lever unit mounting screw (medium)
- (C) Shifting lever unit mounting screw (small)

Tightening torque (A)



0.5 - 0.7 N·m

Tightening torque (B)



0.15 - 0.2 N·m

Tightening torque (C)



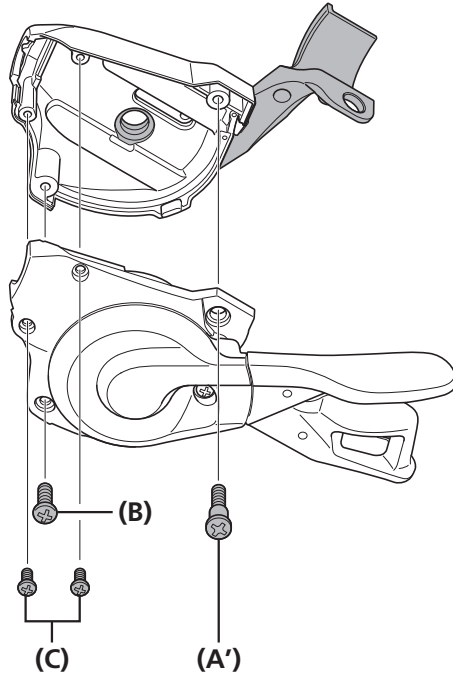
0.08 - 0.1 N·m

4

For I-spec II, I-spec B



4



- (A') Shifting lever unit mounting screw (large)
- (B) Shifting lever unit mounting screw (medium)
- (C) Shifting lever unit mounting screw (small)

Tightening torque (A') (B)



0.15 - 0.2 N·m

Tightening torque (C)



0.08 - 0.1 N·m



The shape of shifting lever unit mounting screw (large) is different for normal type and I-spec II/I-spec B shifting levers.

SHIMANO

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

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