Dealer's Manual

Roller brakes

BR-C6050-F
BR-C6051-F
BR-C6060-F
BR-C6061-F
BR-C6000
BR-C6001
BR-C3000
BR-C3001
BR-C3010
BR-C3011
BR-IM81
BR-IM86
BR-IM31
BR-IM35

BL-C6000
BL-C6010
BL-IM60-A

CONTENTS

IMPORTANT NOTICE 4

TO ENSURE SAFETY 5

INSTALLATION 10

List of tools to be used 10
Installation of the lever 11
Installing the INTER M brake to the hub body 11
Installation of the hub to the frame 12
Installation of the brake cable 16

ADJUSTMENT 23

Adjusting the brake cable 23

MAINTENANCE 26

Applying grease 26

List of dealer's manual-compatible models

Parts / Series	INTER-8	INTER-7	INTER-5	INTER-3
 Internal hub gear	SG-C6010-8R SG-C6000-8R	SG-C3000-7R	SG-5R30 SG-5R35	SG-3R40
 Brake lever	BL-C6010 BL-IM60-A		BL-IM45 BL-IM65 BL-IM60 BL-C6000	
 Roller brakes	BR-C3000 BR-C3001 BR-C3010 BR-C3011 BR-C6000 BR-C6001 BR-C6050-F BR-C6051-F BR-C6060-F BR-C6061-F		BR-IM31 BR-IM35 BR-IM81 BR-IM86	
Brake cable				

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 manuals and technical documents are accessible online at https://si.shimano.com.
- For consumers who do not have easy access to the internet, please contact a SHIMANO distributor or any of the SHIMANO offices to obtain a hardcopy of the User's Manual.
- 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

- **Be sure to follow the instructions provided in the manuals when installing the product.**
  Only use SHIMANO genuine parts. Loose nuts and bolts or product damage may lead to serious injury due to a fall or collision.
  In addition, if adjustments are not carried out correctly, problems may occur, and the bicycle may suddenly fall over, which may cause serious injury.
-  Wear approved eye protection while performing maintenance tasks such as replacing components.

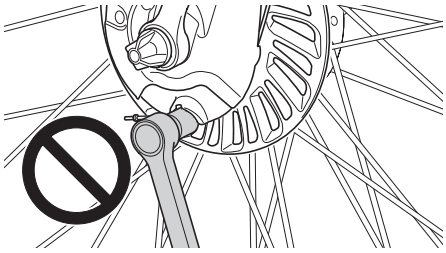
Be sure to also inform users of the following:

- Because each bicycle may handle slightly differently depending on the model, be sure to learn the proper braking technique (including brake lever pressure and bicycle control characteristics) and operation of your bicycle.
  Improper use of your bicycle's brake system may result in a loss of control, which could lead to serious injury due to a fall or collision.
- It is necessary to use the brake caliper of the SHIMANO front INTER M brake and the hub **as a set** (excluding the BR-C6050-F, BR-C6051-F, BR-C6060-F and BR-C6061-F). The hub of the SHIMANO front INTER M brake has a built-in power modulator. This system controls the braking force so that excessive force is not applied if the braking force reaches the specified value. If the hub is not equipped with a power modulator or the hub is equipped with a power modulator but the overall mass does not meet the recommended mass when the brake is used, applying the front brake too strongly may cause the front wheel to lock and the bicycle to fall forward, which can result in serious injury. Noise is generated by the operation of the power modulator when the brake is applied, but this is not a sign of a malfunction.
- The range of overall allowable mass (bicycle + rider + luggage) of the BR-C6050-F / BR-C6051-F / BR-C6060-F / BR-C6061-F with power modulator

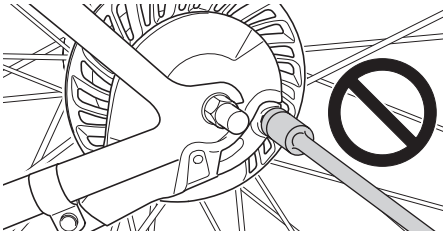
Model name	Outer diameter of tire (mm)	Range of overall allowable mass (kg)
BR-C6050-F / BR-C6051-F	660 - 712	70 - 100
BR-C6060-F / BR-C6061-F	660 - 712	100 - 130

  If the overall mass is out of the allowed range, the controlled braking force may be too strong or too weak.
  Use the BR-C6050-F, BR-C6051-F, BR-C6060-F or BR-C6061-F with power modulator within its range of overall allowable mass.
- Never tighten the inner cable fixing bolt with it attached to your bicycle. Doing so may cause the inner cable fixing bolt to detach.

< Front >

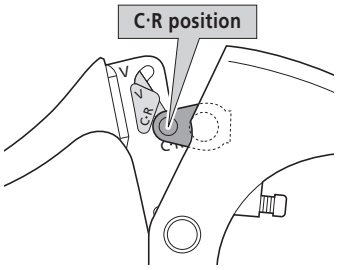
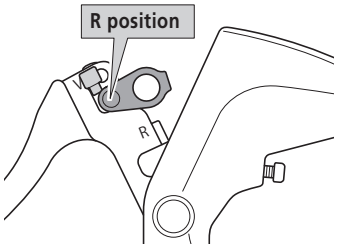
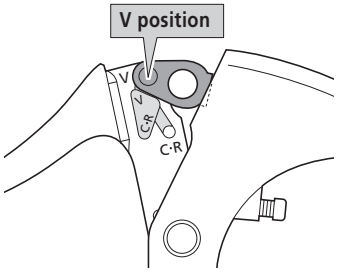


< Rear >



- If using the roller brakes in combination with a suspension fork / frame, care must be taken when selecting the suspension fork / frame to use; therefore, please consult with the place of purchase or the bicycle manufacturer. If an incorrect type of suspension fork is selected, it could prevent the suspension fork from functioning properly because of overheating during braking or lack of strength in the fork, which could result in an accident.

- Use brake levers with mode switching mechanism in the combinations shown in the figures. The brake levers are equipped with a mode switching mechanism which can be used to make them compatible with cantilever brakes and roller brakes or V-BRAKE brakes with power modulator. (The BL-C6010 and BL-IM60-A are compatible with roller brakes or V-BRAKE brakes with power modulator. Please note that they are not compatible with cantilever brakes.)
  If the incorrect mode is selected it may result in either excessive or insufficient braking force, which is highly dangerous.
  Select the correct mode as shown in the figures.

Mode position		Applicable brake
C : Mode position for compatibility with cantilever brakes **R** : Mode position for compatibility with roller brakes		• Cantilever brakes • Roller brakes
For BL-C6010 / BL-IM60-A **R** : Mode position for compatibility with roller brakes		• Roller brakes
V : Mode position for compatibility with V-BRAKE brakes with power modulator		• V-BRAKE brakes with power modulator

- Be sure to follow the instructions provided in the manuals when installing the product. Also, only use SHIMANO genuine parts. Loose nuts and bolts or product damage may lead to serious injury due to a fall or collision.
- Always make sure that the front and rear brakes are working correctly before riding the bicycle.
- A wet road surface may cause tires to lose traction; therefore, to avoid this, reduce your speed and apply the brakes early and gently. If the tires lose traction, it may result in serious injury due to a fall or collision.
- Check that the wheels are fastened securely before riding the bicycle. You may fall or collide and be seriously injured.
- Read this manual carefully, and keep it in a safe place for later reference.

For installation to the bicycle and maintenance

- When securing the brake arm to the frame, be sure to use an arm clip that matches the size of the chainstay, and securely tighten them with the clip bolt and clip nut to the specified tightening torque.
  Use a lock nut with nylon insert (self-locking nut) as the clip nut. It is recommended that SHIMANO made clip bolts, clip nuts, and arm clips be used.
  If the clip nut comes off the brake arm, or if the clip bolt or arm clip becomes damaged, the brake arm may rotate on the chainstay and cause the handlebars to jerk suddenly, or the bicycle wheel may lock and result in serious injury due to a fall or collision.
- Depending on the product, the outer diameter of tire of the compatible wheel may differ, so make sure to check the compatible size.
  If an incompatible size is used, the wheels may lock and you may lose balance and fall off the bicycle.

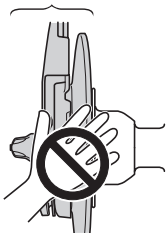
⚠CAUTION

Be sure to also inform users of the following:

- If any of the following occurs while applying the brakes, stop riding immediately and consult the place of purchase for inspection or repair.
  1) If an abnormal noise is heard when the brakes are applied
  2) If the braking force is abnormally strong
  3) If the braking force is abnormally weak

  If 1) or 2) occurs, the cause might be a lack of brake grease, so ask the place of purchase to grease the mechanism with special roller brake grease.
  If 2) or 3) occurs when using the BR-C6050-F, BR-C6051-F, BR-C6060-F or BR-C6061-F, the power modulator may be malfunctioning. Consult the place of purchase for inspection or repair.
- When the brake is used frequently, do not touch the area around the brake for at least 30 minutes after riding the bicycle. The area around the brake may become hot.

Area around the brake



■Regarding the SHIMANO INTER M brake system

- Do not continuously apply the brakes when riding down long slopes. This will cause the internal brake parts to become very hot, weakening braking performance, as well as causing a reduction in the amount of brake grease inside the brake, which can lead to problems such as abnormally sudden braking.

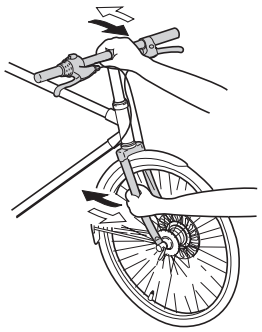
■Regarding the SHIMANO front INTER M brake system

- Use the system attached to the left side of a bicycle that is 26 inches or larger.
  If it is used on a bicycle which is smaller than 26 inches, the braking force may be too great, which could cause accidents.
- In order to get the best performance from the SHIMANO front INTER M brake, be sure to use SHIMANO brake cables and brake levers as a set. (https://productinfo.shimano.com/lineupchart.html) (The amount of movement of the inner cable must be: 21.5 mm (when using the BL-C6010) / 16.5 mm (when using the BL-C6000, BL-IM60, BL-IM65, or BL-IM45) or more when the brake lever is pressed. If it is less than 21.5 mm/16.5 mm, braking performance will suffer, and the brakes may fail to work.)
- If the brake cable becomes rusty, braking performance will suffer. If this happens, replace the brake cable with a genuine SHIMANO brake cable and re-check braking performance.
- The brake unit and front hub unit should never be disassembled. If it is disassembled, it may no longer work properly.
- For the BR-C6050-F, BR-C6051-F, BR-C6060-F, or BR-C6061-F, the power modulator is built into the brake caliper so a power modulator is not needed in the hub body. However, the special front suspension fork / frame is needed to install it.

NOTICE

- Assemble the wheel with 3x or 4x lacing, and do not spoke the wheel radially. Otherwise, the spokes or the wheel may get damaged, or noise may occur when braking.
- The INTER M brake is different from conventional band brakes in that the inside of the brake drum is filled with grease, causing the turning of the tire to be slightly heavier than usual. (Particularly in cold weather)
- If you apply the front INTER M brake strongly while the bicycle is stopped then shake the wheel, you will notice that there is a small amount of play in the brakes. This is normal, and will not cause any problems at all while riding.

- To check the amount of looseness in the head parts, grasp the middle of the handlebar and one of the front forks as shown in the figure, then move the head parts back and forth in the directions indicated by the arrows.
  Moreover, because the brakes give a small amount of play if you apply the brakes fully and shake the wheel as described above, this will make it more difficult to check the looseness in the head 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.

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

INSTALLATION

INSTALLATION

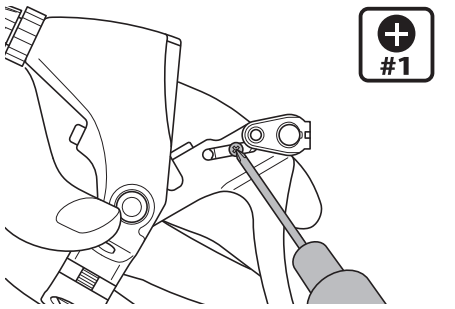
■ List of tools to be used

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

Tool		Tool		Tool	
	Adjustable wrench	17mm	17 mm spanner	#1	Cross head screwdriver [#1]
10mm	10 mm spanner	5 mm	5 mm hexagon wrench		Cross head screwdriver

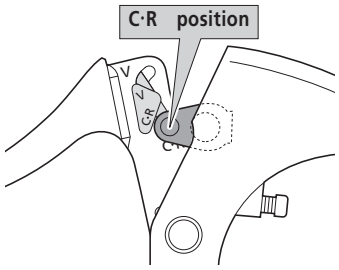
Mode switching

1



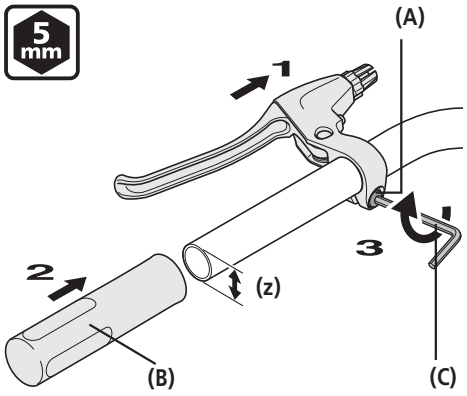
Use the cross head screwdriver [#1] to loosen the screw.

2



Align the mode position with the C·R position.

■ Installation of the lever

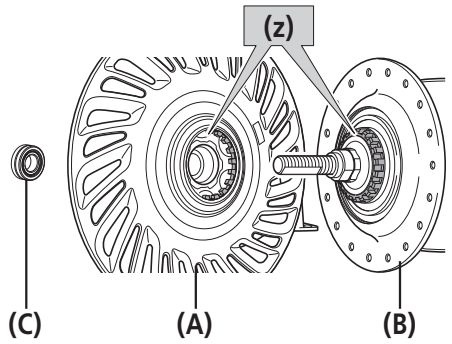


(z) Ø22.2 mm

(A) Clamp screw
(B) Grip
(C) 5 mm hexagon wrench

Tightening torque	
5 mm	6 - 8 N·m

■ Installing the INTER M brake to the hub body



Engage the splines on the hub body **(B)** with the splines on the INTER M brake **(A),** and then temporarily tighten with the brake unit fixing nut, or fully tighten with the brake unit fixing washer.

(z) Engage splines.

(A) INTER M brake
(B) Hub body
(C) Brake unit fixing nut/brake unit fixing washer

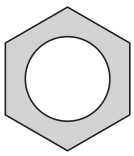
TECH TIPS

- Brake unit fixing nut

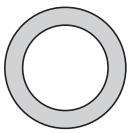
  Front brake, BR-IM31-R / IM35 (rear)

- Brake unit fixing washer

  BR-C3000-R / C3001-R / C3010-R / C3011-R / C6000-R / C6001-R (rear)



Brake unit fixing nut



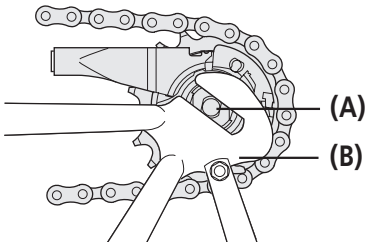
Brake unit fixing washer

■ Installation of the hub to the frame

Rear side

The hub installation is an example. Also refer to the manual for the hub.

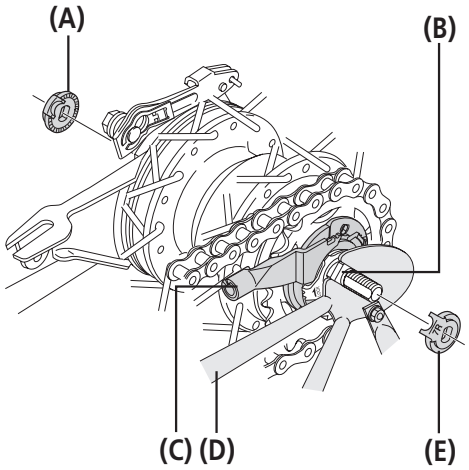
1



Mount the chain on the sprocket, then set the hub axle **(A)** into the rear dropout **(B)**.

(A) Hub axle
(B) Rear dropout

2



Place non-turn washers **(A)** and **(E)** onto the right and left sides of the hub axle.

At this time, turn the cassette joint **(C)** so that the protrusions of the non-turn washers fit into the grooves **(B)** in the rear dropout and align the joint to be almost parallel to the chainstay **(D)**.

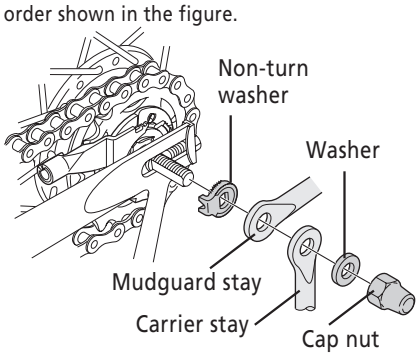
(A) Non-turn washer (for left-side use)
(B) Rear dropout groove
(C) Cassette joint
(D) Chainstay
(E) Non-turn washer (for right-side use)

Rear dropout	Non-turn washer		
	Mark / Color		Size
	Right	Left	
Standard	5R / Yellow	5L / Brown	Θ ≤ 20°
	7R / Black	7L / Gray	20° ≤ Θ ≤ 38°
	9R / Light green	9L / Light brown	
Reversed	6R / Silver	6L / White	Θ = 0°
Reversed (full chain case)	5R / Yellow	5L / Brown	Θ = 0°
Vertical	8R / Blue	8L / Green	Θ = 60° - 90°

Note: Vertical type does not include the coaster type.

NOTICE

When installing parts such as a mudguard stay to the hub axle, install them in the order shown in the figure.



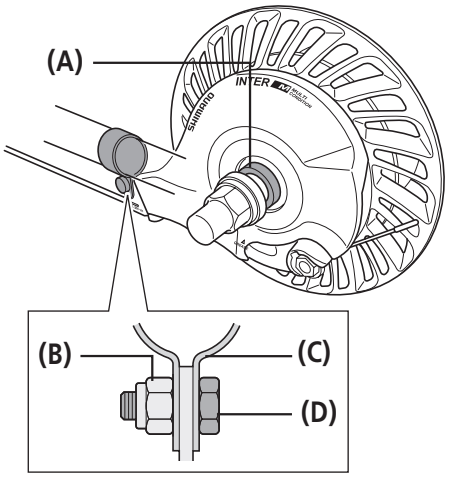
TECH TIPS

- Use a non-turn washer that matches the shape of the rear dropout. Different non-turn washers are used for the left and right sides.
- The protrusion should be on the rear dropout side.
- Install the non-turn washer so that the protrusion fits securely in the rear dropout groove at the front and back sides of the hub axle.



To be continued on next page

3



Attach the brake arm of the INTER M brake to the chainstay with the brake arm clip **(C)**.

Then temporarily fix the clip bolt **(D)** and clip nut **(B)** by lightly tightening them.

For models not using an arm clip, use the bolt and washer supplied by the bicycle manufacturer.

Check that the brake unit is firmly secured to the hub body with the brake unit fixing nut or brake unit fixing washer **(A)**.

(A) Brake unit fixing nut/Brake unit fixing washer
(B) Clip nut
(C) Brake arm clip
(D) Clip bolt (M6×16 mm)

NOTICE

If the hub nuts are cap nuts, use a frame with rear dropouts that are at least 7 mm thick.

4

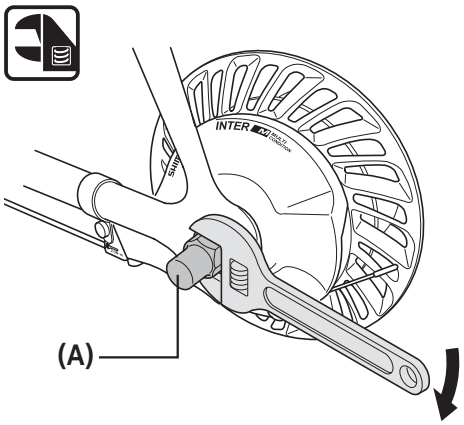
Pull the wheel towards the rear to adjust the chain tension and align the wheel with the frame center.

5

Using a brake unit fixing nut
After temporarily but securely tightening the hub nut, slightly loosen it, then fully tighten the brake unit fixing nut.
Using a brake unit fixing washer
Temporarily tighten the hub nut.

Tightening torque	
17mm	20 - 25 N·m

6



Take up the slack in the chain and secure the wheel to the frame with the hub nut **(A)**.

(A) Hub nut

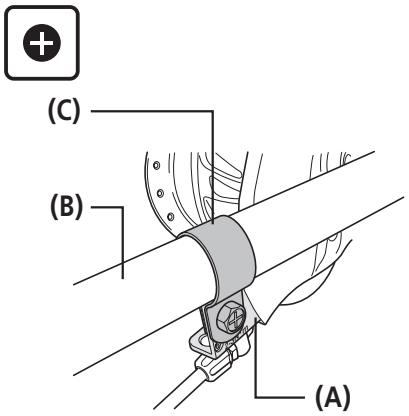
Tightening torque	
	30 - 45 N·m

NOTICE

Check that the wheel is fixed securely to the frame with the hub nuts.

To be continued on next page

7



Fix the brake arm **(A)** securely to the chainstay **(B)** with the brake arm clip **(C)**.

Check that the brake arm is securely fastened to the chainstay by the brake arm clip.

For models not using an arm clip, use the bolt and washer supplied by the bicycle manufacturer. Also follow the instructions of the bicycle manufacturer for information such as the tightening torque.

If it is not installed correctly, braking performance will suffer.

(A) Brake arm
(B) Chainstay
(C) Brake arm clip

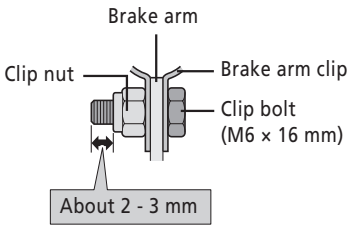
Tightening torque	
	2 - 3 N·m

NOTICE

If excessive force is applied to the brake arm to secure it, the wheel will make noise and become difficult to turn.
Make sure that you don't apply excessive force when installing.

TECH TIPS

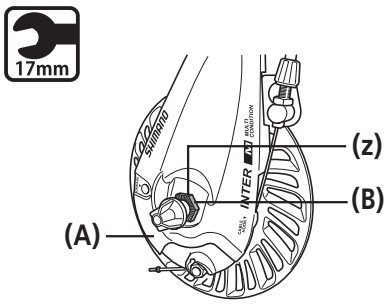
- When installing the arm clip, securely tighten the clip bolt while holding the clip nut with a 10 mm spanner.
- After installing the brake arm clip, check that the clip bolt protrudes about 2 - 3 mm (4 mm for BR-IM31 / 35) from the surface of the clip nut.



Front side

<For quick release type>

1



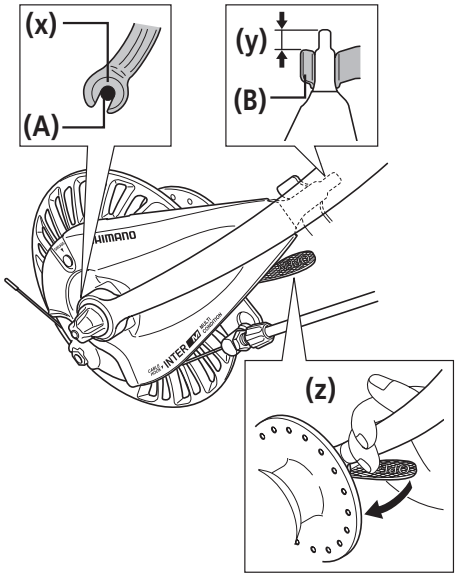
Check that the front brake unit **(A)** is firmly secured to the hub with the brake unit fixing nut **(B)**.

(z) With notches (The side with notches is the front.)

(A) Brake unit
(B) Brake unit fixing nut

Tightening torque	
17mm	15 - 20 N·m

2



Check that the hub axle **(A)** is touching the back of the front fork dropout, that the end of the brake arm is protruding 11 mm or more from the brazed-on bracket **(B)** of the front fork and that the wheel is firmly secured to the frame with the quick release or the hub nut.

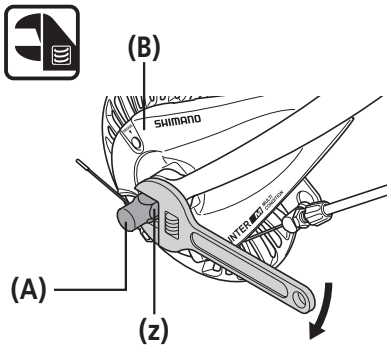
If the wheel is not installed properly, it may come off the frame, which could result in a serious accident when riding.

(x) Touching
(y) 11 mm or more
(z) For quick release type:
Secure the cam lever of the quick release firmly.

(A) Hub axle
(B) Brazed-on bracket

Cam lever tightening torque
5 - 7.5 N·m

<For nut type>



Check that the front brake unit **(B)** is firmly secured to the hub body with the hub nut **(A)**.

(z) Without notches

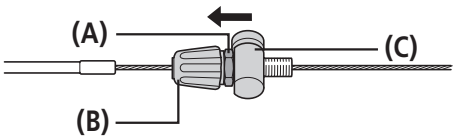
(A) Hub nut
(B) Brake unit

Tightening torque	
	20 - 25 N·m

■ Installation of the brake cable

Rear side

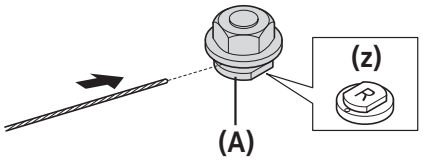
1



After checking that the cable adjustment barrel **(B)** and adjustment nut **(A)** are fully tightened, insert the outer holder unit **(C)** into the inner cable in the direction shown in the illustration.

(A) Adjustment nut
(B) Cable adjustment barrel
(C) Outer holder unit

2

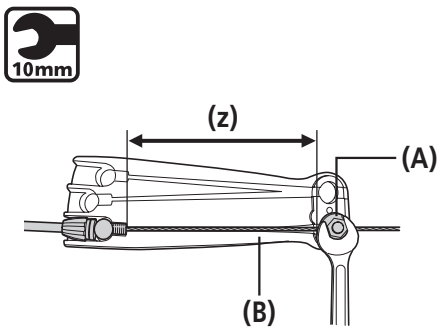


After checking that the marking of the back side of the inner cable fixing bolt unit **(A)** is "R", pass the inner cable through the hole of the inner cable fixing bolt unit.

(z) "R" marking

(A) Inner cable fixing bolt unit

3



Place the components as shown in the following figure and tighten the inner cable fixing nut **(A)**.

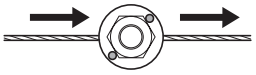
Use **(z)** 99 mm of TL-IM21 **(B)** to tighten the inner cable fixing nut as shown in the illustration.

(A) Inner cable fixing nut
(B) TL-IM21

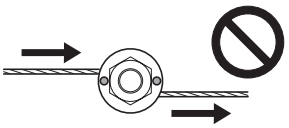
Tightening torque	
10mm	6 - 8 N·m

NOTICE

- After tightening, check that the orientations of the inner cable fixing nut and inner cable are correct as shown in the illustration.

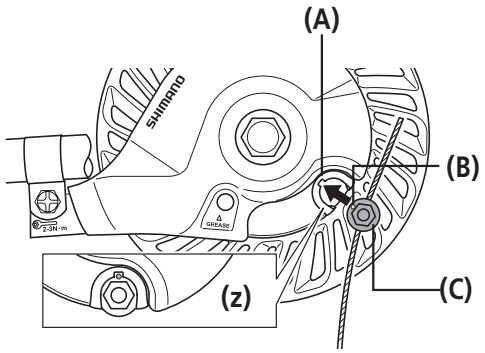


- Never tighten the inner cable fixing bolt with it attached to brake. The orientations of the inner cable fixing nut and inner cable will become improper as shown in the illustration, which may cause the inner cable fixing bolt to detach from the brake body.



To be continued on next page

4

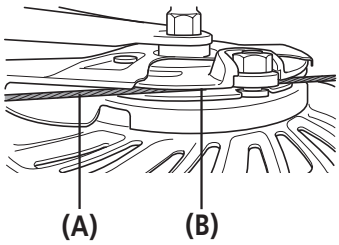


Align the red mark on the inner cable fixing washer **(B)** so that it faces in the direction of the groove in the winder unit **(A)**, and then insert the inner cable fixing bolt unit **(C)** and push it into the groove in the winder unit as far as it will go.

(z) Insert the inner cable fixing bolt unit and push it into the groove in the winder unit as far as it will go.

(A) Groove in the winder unit
(B) Red mark on inner cable fixing washer
(C) Inner cable fixing bolt unit

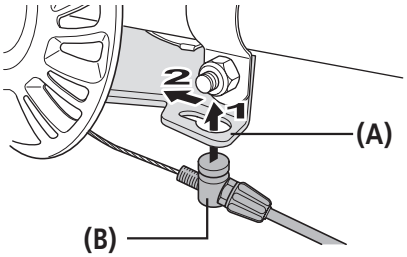
5



Route the inner cable **(A)** along the groove in the winder unit **(B)**.

(A) Inner cable
(B) Groove in the winder unit

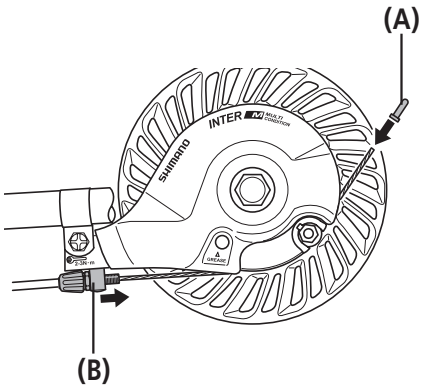
6



Insert the outer holder unit **(B)** into the hole of the brake arm **(A)** from underneath and slide it to the lower section of the hole.

(A) Brake arm
(B) Outer holder unit

7

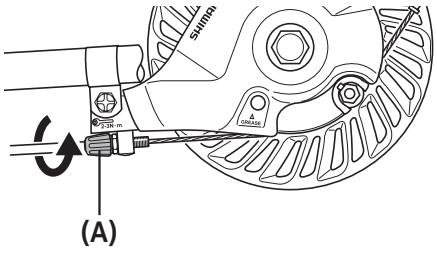


After checking that the outer holder unit **(B)** is inserted as far as it will go into the brake arm hole, install the inner end cap **(A).**

Then, set the inner end cap so that it does not touch the fin or the spokes.

(A) Inner end cap
(B) Outer holder unit

8

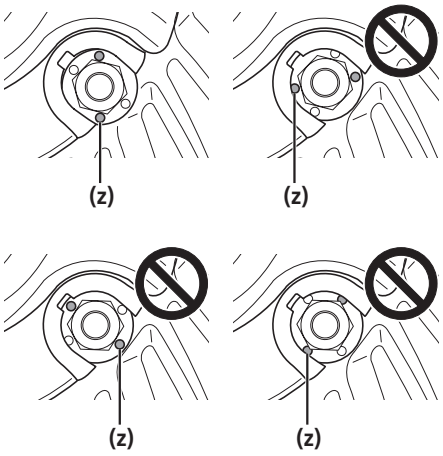


Turn the cable adjustment barrel **(A)** to tighten the inner cable.

(A) Cable adjustment barrel

To be continued on next page

9



After pressing the lever, check that the red marks on the inner cable fixing washer with the inner cable fixing bolt unit press-fit into the winder unit are in the right direction as shown in the illustration.

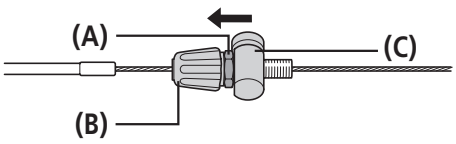
(z) Red

TECH TIPS

When detaching the cable, perform in reverse order.

Front side

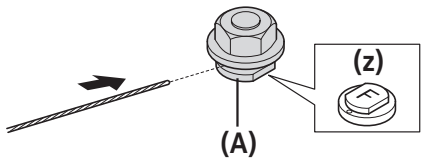
1



After checking that the cable adjustment barrel **(B)** and adjustment nut **(A)** are fully tightened, insert the outer holder unit **(C)** into the inner cable in the direction shown in the illustration.

(A) Adjustment nut
(B) Cable adjustment barrel
(C) Outer holder unit

2



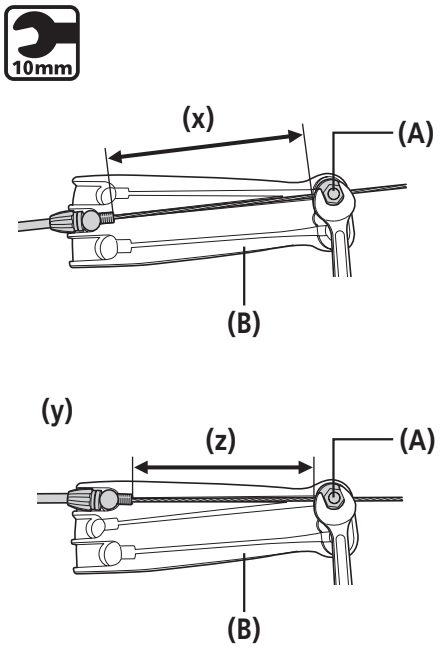
After checking that the marking of the back side of the inner cable fixing bolt unit **(A)** is "F", pass the inner cable through the hole of the inner cable fixing bolt unit.

(z) Markings "F"

(A) Inner cable fixing bolt unit

To be continued on next page

3



Place the components as shown in the following figure and tighten the inner cable fixing nut **(A)**.

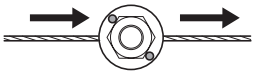
Use **(x)** 109 mm of TL-IM21 **(B)** to tighten the inner cable fixing nut as shown in the illustration.
Use **(z)** 101 mm for BR-IM86.

(A) Inner cable fixing nut
(B) TL-IM21

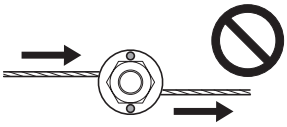
Tightening torque	
10mm	6 - 8 N·m

NOTICE

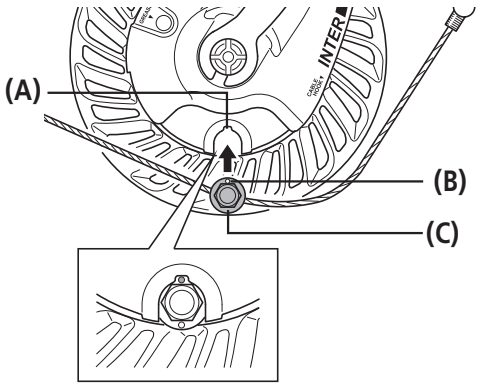
- After tightening, check that the orientations of the inner cable fixing nut and inner cable are correct as shown in the illustration.



- Never tighten the inner cable fixing bolt with it attached to brake. The orientations of the inner cable fixing nut and inner cable will become improper as shown in the illustration, which may cause the inner cable fixing bolt to detach from the brake body.



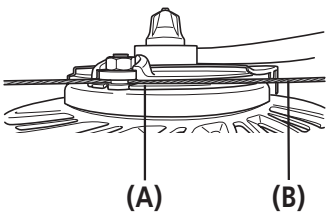
4



Align the red mark on the inner cable fixing washer **(B)** so that it faces in the direction of the groove in the winder unit **(A)**, and then insert the inner cable fixing bolt unit **(C)** and push it into the groove in the winder unit as far as it will go.

(A) Groove in the winder unit
(B) Red mark on inner cable fixing washer
(C) Inner cable fixing bolt unit

5

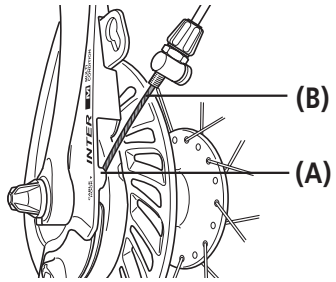


Route the inner cable **(B)** along the groove in the winder unit **(A)**.

(A) Groove in the winder unit
(B) Inner cable

To be continued on next page

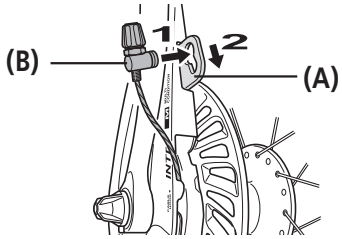
6



Hook the inner cable **(B)** over the cable hook **(A)**.

(A) Cable hook
(B) Inner cable

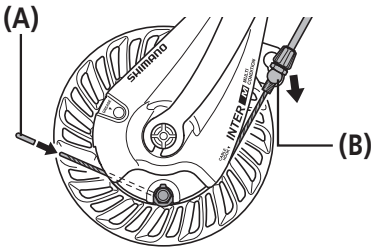
7



Insert the outer holder unit **(B)** into the hole of the brake arm **(A)** from underneath and slide it to the lower section of the hole.

(A) Brake arm
(B) Outer holder unit

8

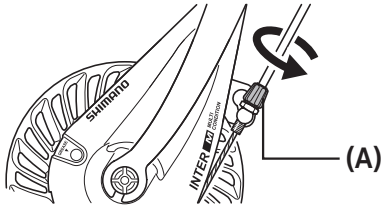


After checking that the outer holder unit **(B)** is inserted as far as it will go into the guide slot in the brake arm, install the inner end cap **(A)**.

Then, set the inner end cap so that it does not touch the fin or the spokes.

(A) Inner end cap
(B) Outer holder unit

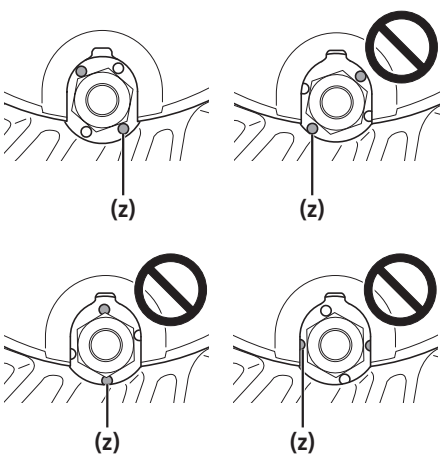
9



Turn the cable adjustment barrel **(A)** to tighten the inner cable.

(A) Cable adjustment barrel

10



After pressing the lever, check that the red marks on the inner cable fixing washer with the inner cable fixing bolt unit press-fit into the winder unit are in the right direction as shown in the illustration.

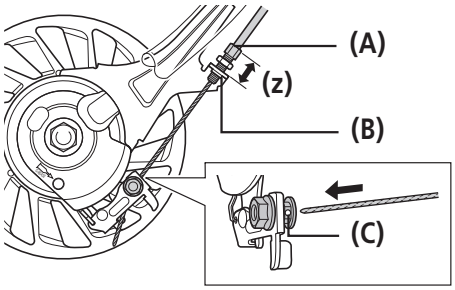
(z) Red

TECH TIPS

Installation of the brake cable can be completed by the above procedure. When detaching the cable, perform in reverse order.

<For BR-IM31 / 35>

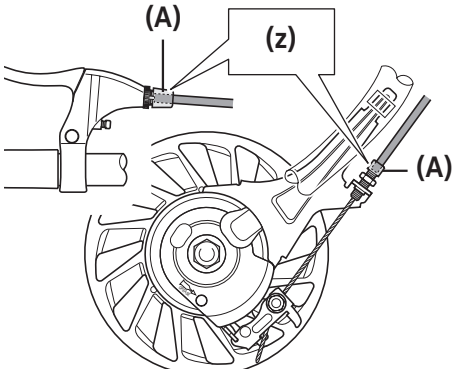
1



Place the cable adjustment barrel **(A)** so that it is **(z)** 13 to 15 mm from the end of the outer casing holder **(B)**, and then pass the inner cable through the cable adjustment barrel and then through the hole **(C)** in the inner cable fixing bolt.

(A) Cable adjustment barrel
(B) Outer casing holder
(C) Hole in the inner cable fixing bolt

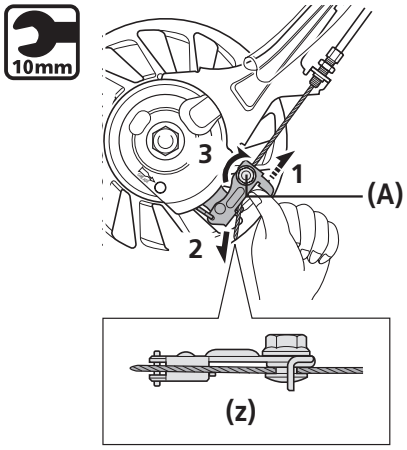
2



Check that both ends **(z)** of the outer casing are securely inserted into the cable adjustment barrels **(A)** of both the brake lever and brake arm.

(A) Cable adjustment barrel

3



Push the link back until it stops. Then, while pulling the inner cable to apply the full amount of tension to the cable, tighten the inner cable fixing nut **(A)**.

(A) Inner cable fixing nut

Tightening torque	
10mm	6 - 8 N·m

NOTICE

The inner cable has to be set so that it passes under the link, as shown in the illustration **(z)**.

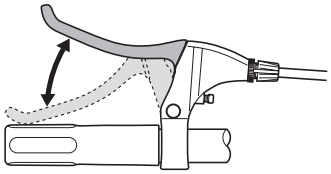
ADJUSTMENT

ADJUSTMENT

■ Adjusting the brake cable

Rear side

1

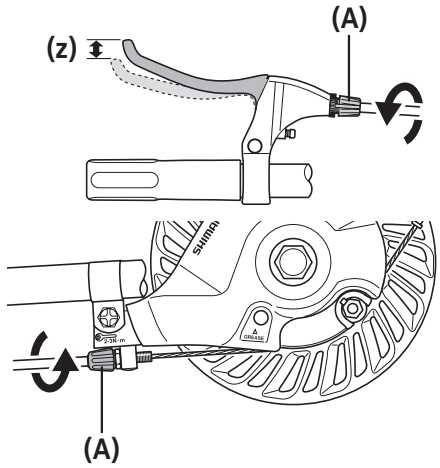


After checking that the wheel does not easily turn while the brake cable is being pulled, depress the brake lever about 10 times as far as the grip in order to run in the brake cable.

NOTICE

If the brake cable is not run in, it will need to be adjusted again after only a short period of use.

2

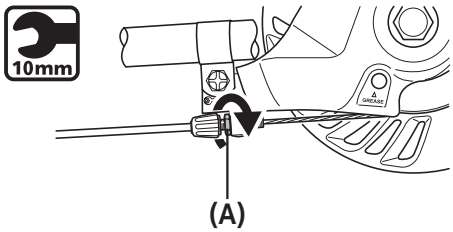


Turn the cable adjustment barrel **(A)** of the brake unit or brake lever so that there is a 15 mm gap **(z)** (11 mm for BL-C6010) in the brake lever.

(The amount of brake lever gap is the distance from the position where the brake lever is not operated to the position where a force is felt suddenly when the brake lever is pulled.)

(A) Cable adjustment barrel

3



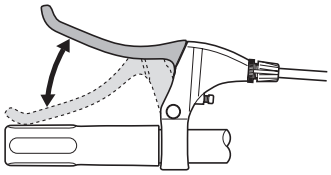
After depressing the brake lever to check the braking performance, secure the cable adjustment barrel with the cable adjustment nut **(A)**.

(A) Cable adjustment nut

Tightening torque	
10mm	1 - 2 N·m

Front side

1

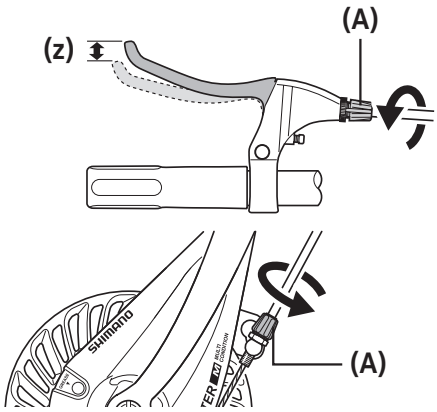


After checking that the wheel does not easily turn while the brake cable is being pulled, depress the brake lever about 10 times as far as the grip in order to run in the brake cable.

NOTICE

If the brake cable is not run in, it will need to be adjusted again after only a short period of use.

2

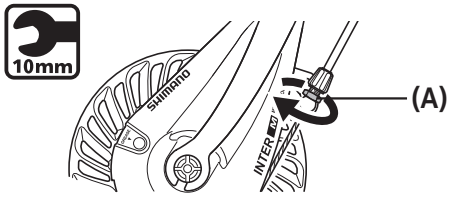


Turn the cable adjustment barrel **(A)** of the brake unit or brake lever so that there is a 15 mm gap **(z)** (11 mm for BL-C6010) in the brake lever.

(The amount of brake lever gap is the distance from the position where the brake lever is not operated to the position where a force is felt suddenly when the brake lever is pulled.)

(A) Cable adjustment barrel

3



After depressing the brake lever to check the braking performance, secure the cable adjustment barrel with the cable adjustment nut **(A)**.

(A) Cable adjustment nut

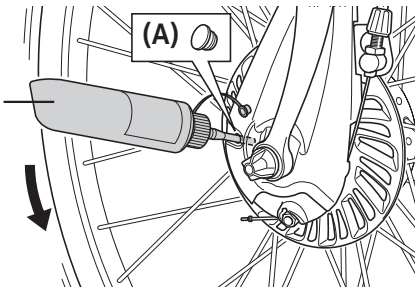
Tightening torque	
10mm	1 - 2 N·m

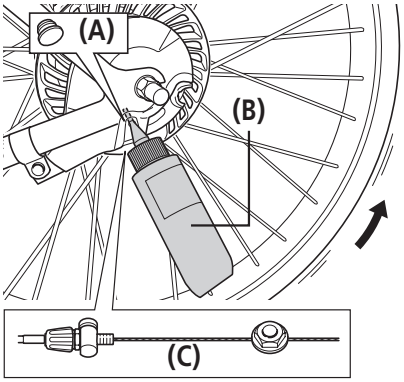
MAINTENANCE

MAINTENANCE

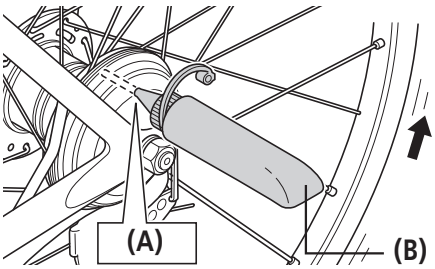
■ Applying grease

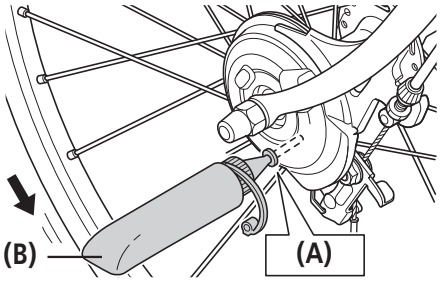
(y)





(z)





Before applying grease for roller brakes **(B)**, remove the grease hole cap **(A)** and press-fit the tube into the back of the hole 12 mm or more. Apply an appropriate amount of grease (approx. 5 g) while turning the wheel slowly.

After application, check that braking is properly applied and that no abnormal noise is heard.

(y) For the BR-C6050-F / C6051-F / C6060-F / C6061-F / C6000 / C6001 / C3000 / C3001 / C3010 / C3011

(z) For BR-IM31 / 35

(A) Grease hole cap
(B) Grease for roller brakes
(C) Cable unit

SHIMANO

SHIMANO NORTH AMERICA BICYCLE, INC.
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
High Tech Campus 92, 5656 AG Eindhoven, The Netherlands Phone: +31-402-612222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-ku, Sakai City, Osaka 590-8577, Japan

Please note: specifications are subject to change for improvement without notice. (English)
© May 2024 by SHIMANO INC. ITP