

Dealer's Manual

DI2 Adapter B

EW-EX010

EW-JC200

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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 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. If a component or replacement part is incorrectly assembled or adjusted, it can lead to component failure and cause the rider to lose control and crash.
-  Wear approved eye protection while performing maintenance tasks such as replacing components.
- Do not connect to batteries other than BOSCH batteries.
If this is not observed, fires, overheating or problems with operation may occur.
- Also, read the manual for the BOSCH eBike system.
- Also, read the dealer's manuals included with the motor unit and shifting switch.

NOTICE

Be sure to also inform users of the following:

- Do not keep connecting and disconnecting the small waterproof connector. It may impair the function.
- Be careful not to let water get into the terminal.
- The components are designed to be fully waterproof and withstand wet weather riding conditions; however, do not deliberately place them into water.
- Do not clean the bicycle with a high-pressure wash. If water gets into any of the components, operating problems or rusting may result.
- Handle the product carefully, and avoid subjecting it to any strong shock.
- Do not use thinners or similar substances to clean the products. Such substances may damage the surface.
- Do not leave the product in an area exposed to strong sunlight for an extended period of time.
- Do not disassemble the product as it cannot be reassembled.
- When cleaning the product, use a cloth moistened with a diluted neutral detergent.
- Contact the place of purchase for updates of the product software. The most up-to-date information is available on the Shimano website.
- 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:

- Be sure to use Shimano original tool TL-EW02 to remove the electric wires.
- Be sure to use the specified electric wire.
- Secure the electric wires with plastic tape so that they do not interfere with the chainrings, sprockets and tires.
- When installing to the bicycle, do not forcibly bend the electric wire plug. It may result in a poor connection.
- Do not install near heat-emitting apparatus. There is a risk of the unit's temperature rising above the operating temperature range.
- If the operating temperature range has been exceeded, the unit will not be operational until the unit's temperature has returned to within the operating range.

Operating temperature range	-10°C - 50°C
Storage temperature range	-20°C - 70°C

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

INSTALLATION

INSTALLATION

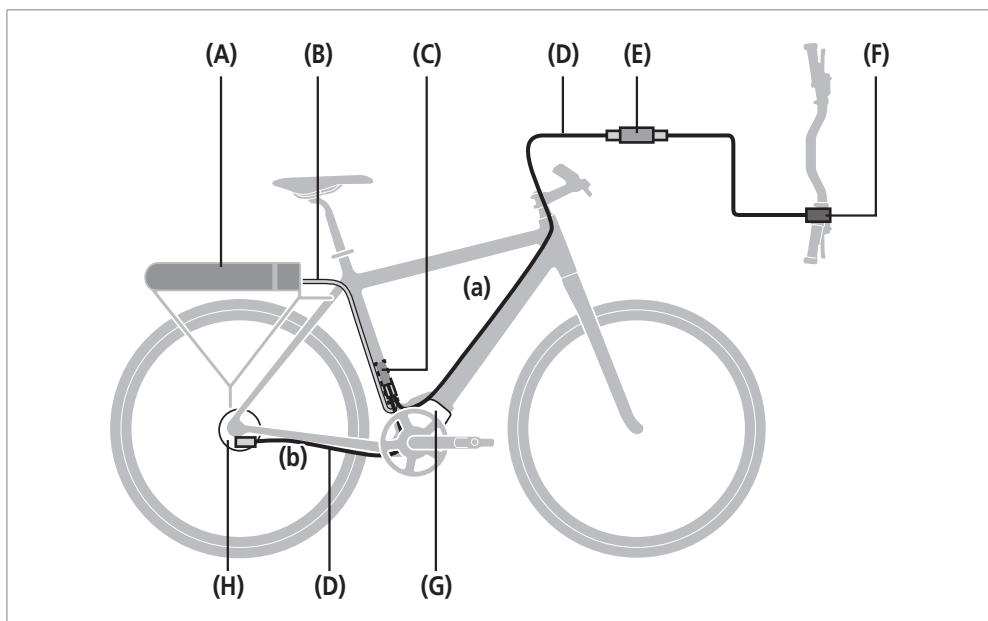
■ Compatibility

Refer to the following URL for information regarding the compatibility of this product.
<https://productinfo.shimano.com/#/com/>

TECH TIPS

- When SW-E6000 is shipped from Shimano, it is in "for assist" mode. The switch can be used for the shifting operation by changing to the "for shift" mode via E-TUBE PROJECT. In this case, the (X) button has no function.

■ Electrical wiring diagram




- (A) BOSCH battery
- (B) BOSCH Y-harness
- (C) DI2 Adapter B EW-EX010
- (D) Electric wire EW-SD50
- (E) Junction EW-JC200
- (F) Shifting switch
- (G) BOSCH eBike Drive Unit
- (H) Rear shifting system

TECH TIPS

Cable length (EW-SD50)
 (a) Max. of 1600 mm
 (b) Max. of 700 mm

■ List of tools to be used

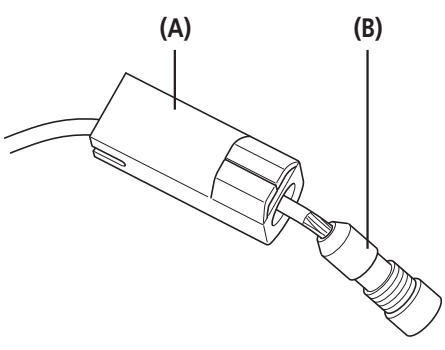
The following tools are required to assemble the product.

Tool	
	TL-EW02

■ DI2 Adapter B Installation Instructions

When Installing from the Bottom Bracket

1

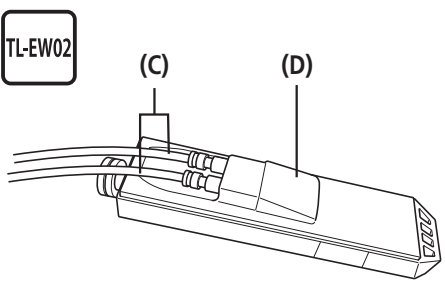


(A) Guide
(B) BOSCH Y-harness

Pass the BOSCH Y-harness (B) through the guide (A).

(A) Guide
(B) BOSCH Y-harness

2



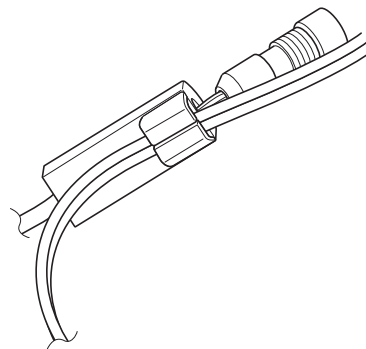
TL-EW02

(C) Electric wires EW-SD50
(D) DI2 Adapter B EW-EX010

Connect the electric wires (C) to the DI2 Adapter B (D).

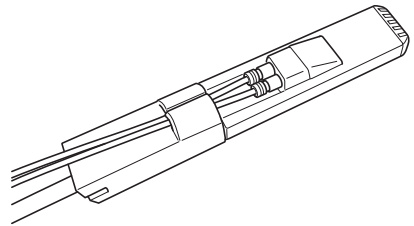
(C) Electric wires EW-SD50
(D) DI2 Adapter B EW-EX010

3



Open up the slit of the guide and pass the electric wires through it.

4

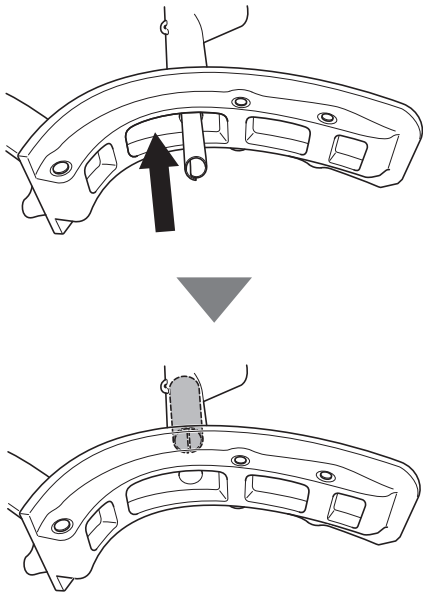


Connect the BOSCH Y-harness to the DI2 Adapter B and install the guide.

NOTICE

Be sure to install the guide.
If the guide is not installed, the weight of the DI2 Adapter B imposes a stress on the BOSCH Y-harness, and there is a possibility of wires breaking or damaging the connector.

5



Insert the insulator from the bottom bracket side.



TECH TIPS

Insulator

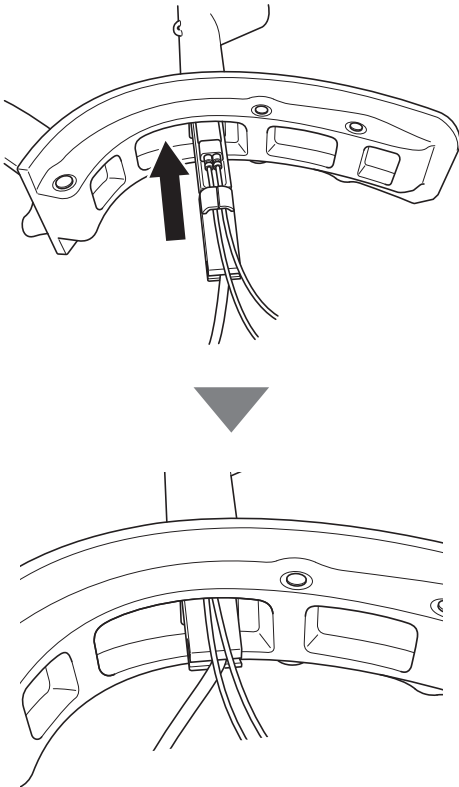
Urethane sheet (Size 80 x 125 x 5)

* When the seat tube inner diameter is 31.2

NOTICE

Check that the insulator goes in along the inner wall of the seat tube.

6



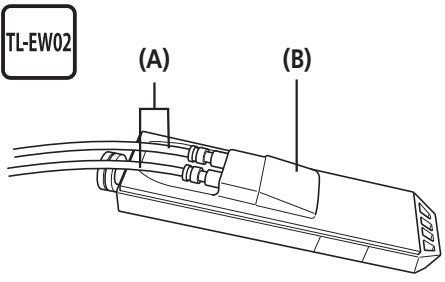
Insert the DI2 Adapter B from the bottom bracket side.

NOTICE

- In order to insert the DI2 Adapter B, the hole on the bottom bracket side must be at least 23 mm in diameter.
- When inserting the DI2 Adapter B, hold the insulator with a long rod, or the like, from the seat tube side to prevent the insulator from shifting upwards.
- Check that the DI2 Adapter B is covered by the insulator.
- When installing the bottle cage fixing screws, make sure that they do not touch the DI2 Adapter B. Otherwise, the DI2 Adapter B may be damaged.

When Installing from the Seat Tube

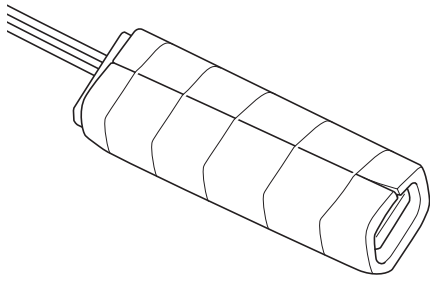
1



Connect the electric wires (A) to the DI2 Adapter B (B).

- (A) Electric wires EW-SD50
- (B) DI2 Adapter B EW-EX010

2



Wrap the DI2 Adapter B with the insulator.



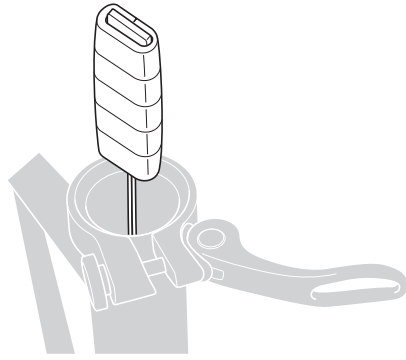
TECH TIPS

Insulator

Shimano recommendation: PORON TR-24 4.0t (Size 80 x 125 x 5)

* When the seat tube inner diameter is 31.2

3

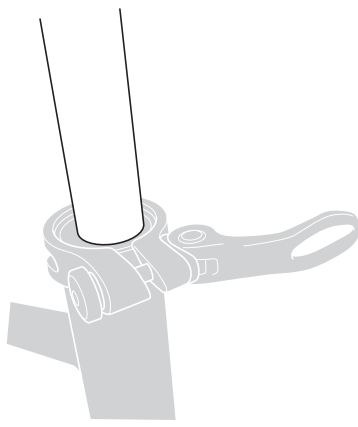


Insert the DI2 Adapter B into the seat tube.

NOTICE

When installing the bottle cage fixing screws, make sure that they do not touch the DI2 Adapter B. Otherwise, the DI2 Adapter B may be damaged.

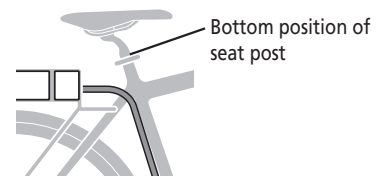
4



Install the seat post.

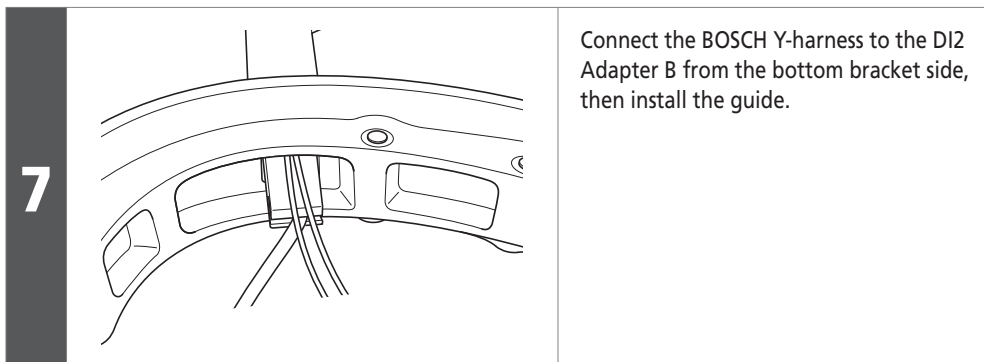
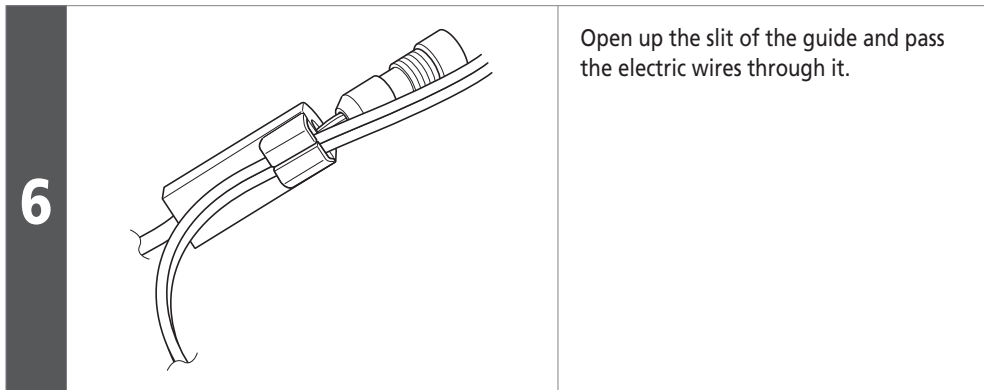
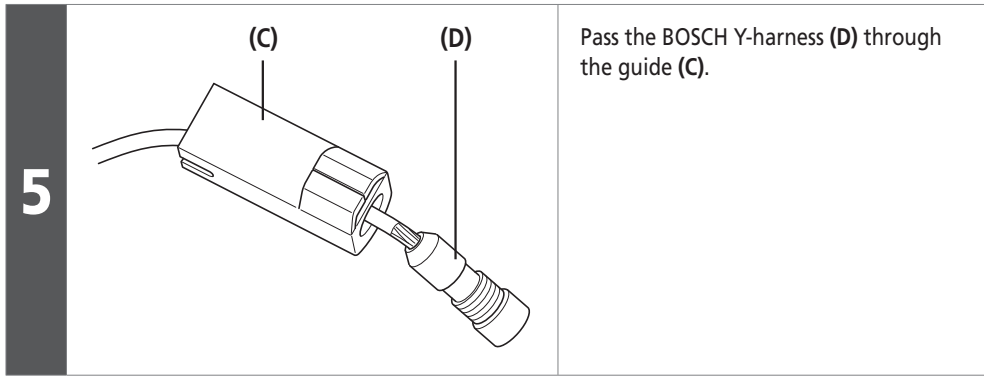
NOTICE

Select a position where it doesn't touch the DI2 Adapter B, even when lowering the seat post to the lowest position. Otherwise, the DI2 Adapter B may be damaged.



INSTALLATION

►► DI2 Adapter B Installation Instructions

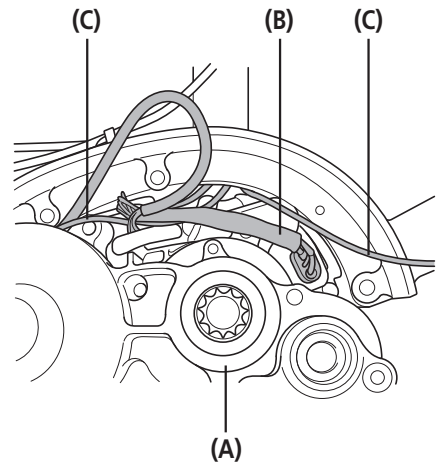


NOTICE

Be sure to install the guide.
If the guide is not installed, the weight of the DI2 Adapter B imposes a stress on the BOSCH Y-harness, and there is a possibility of wires breaking or damaging the connector.

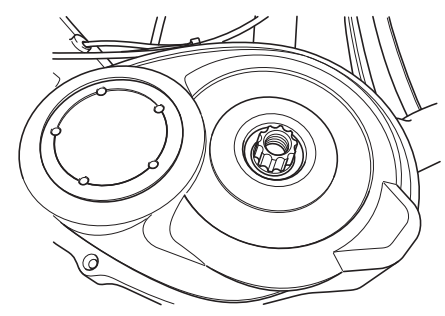
■ Drive Unit Installation Instructions

1



Connect the BOSCH Y-harness (B) to the BOSCH eBike Drive Unit (A).

2

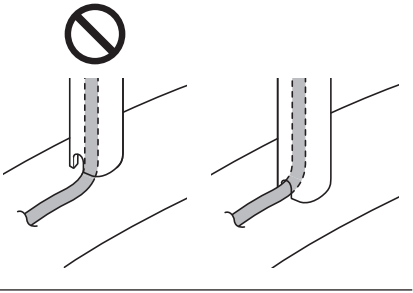


Install the cover.

- (A) BOSCH eBike Drive Unit
- (B) BOSCH Y-harness
- (C) Electric wires EW-SD50

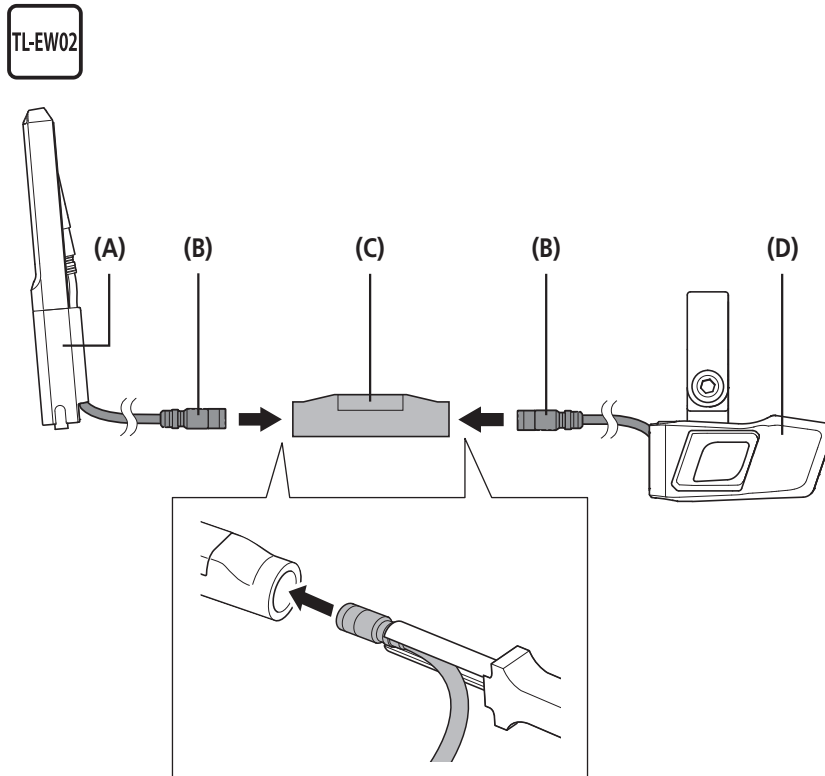
NOTICE

- Check that there are no gaps between the DJ2 Adapter B, the guide, and the BOSCH eBike drive unit.
- Be sure to pass the BOSCH Y-harness through the groove in the guide to ensure that the BOSCH Y-harness does not get caught between the guide and the BOSCH eBike drive unit.



■ Shifting Switch Installation Instructions

Connect the electric wire (B) on the shifting switch (D) side to Junction (C).
Connect the electric wire on the DI2 Adapter B (A) side in the same manner.



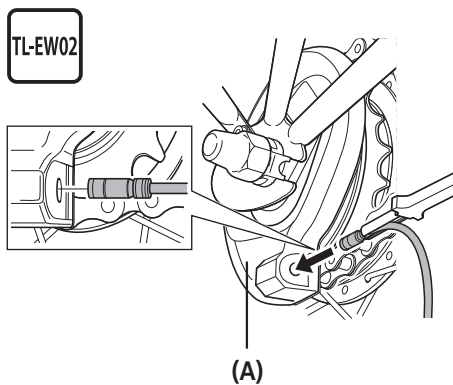
- (A) DI2 Adapter B EW-EX010
- (B) Electric wire EW-SD50
- (C) Junction EW-JC200
- (D) Shifting switch



TECH TIPS

- When not using EW-JC200, directly connect the electric wire connected to the DI2 Adapter B to the shifting switch.
- The maximum length of the electric wire is 1600 mm.

■ Motor Unit Installation Instructions



Connect the electric wire connected to the DI2 Adapter B to the motor unit (A).

- (A) Motor unit

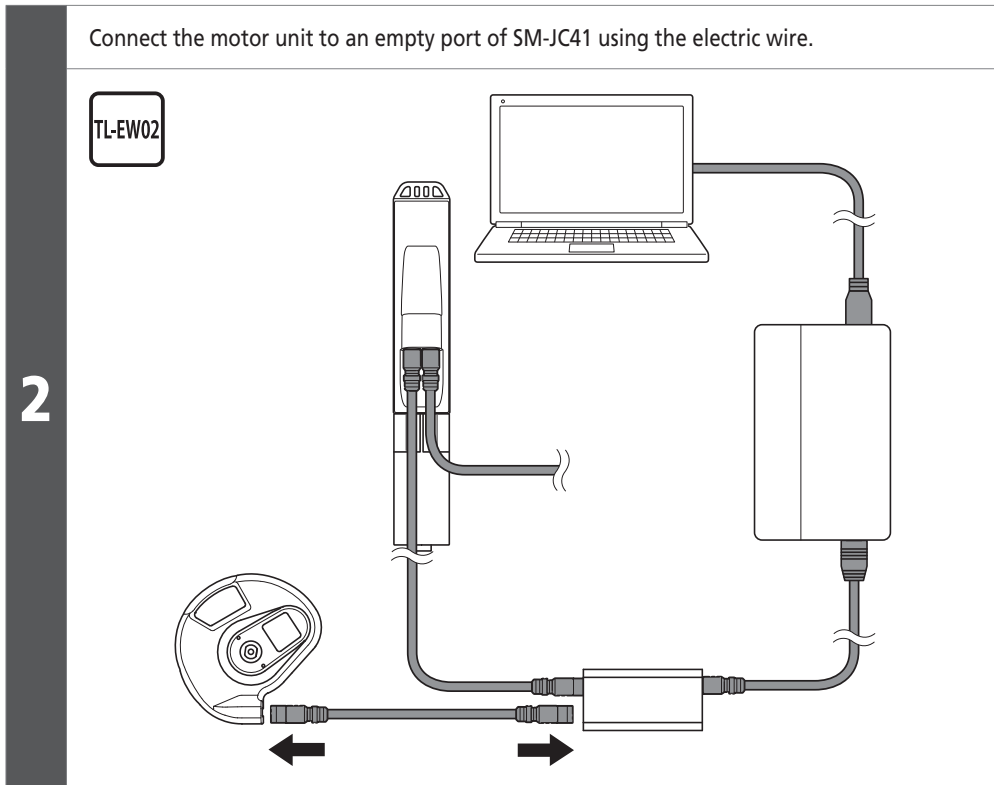
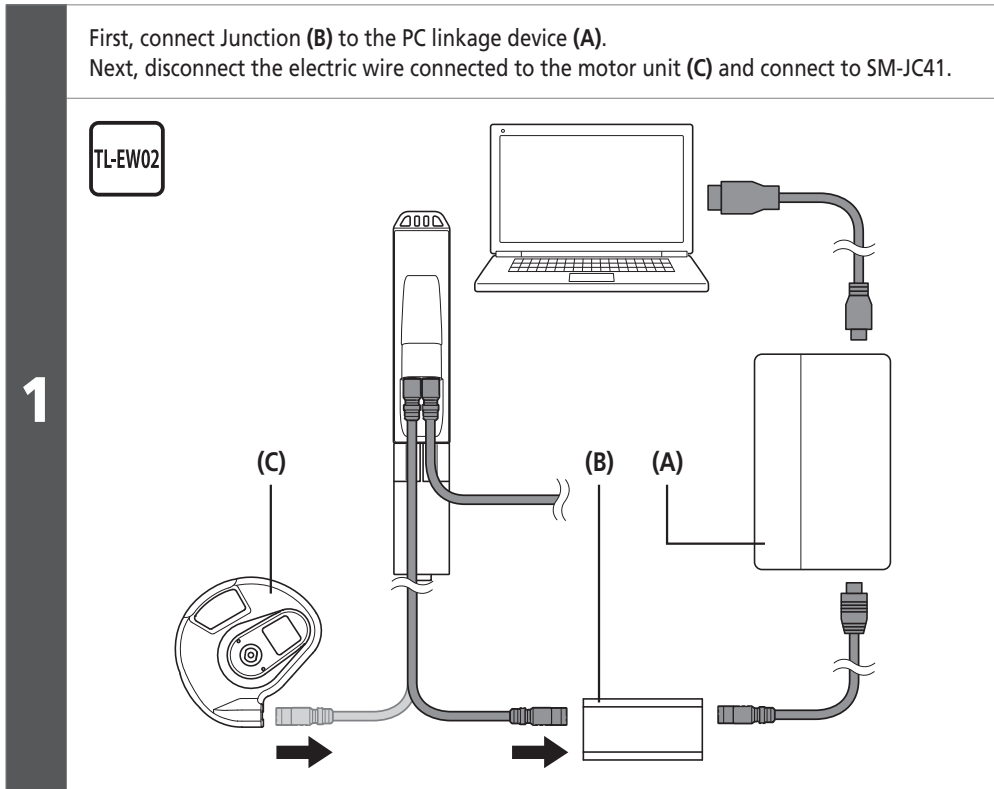


TECH TIPS

The maximum length of the electric wire is 700 mm.

■ Connecting to a PC

Customization and updating of firmware is possible by connecting the DI2 Adapter B, shifting switch, and motor unit to a PC using a PC linkage device.



TROUBLESHOOTING

TROUBLESHOOTING

■ Error Code

When the following error codes are displayed on the BOSCH display, refer to the table below.

Code	Details	Action needed
ID700	The DI2 Adapter B may have malfunctioned.	<ol style="list-style-type: none"> 1. Turn on the power again. 2. E-TUBE PROJECT Error Check in single part condition. 3. Replace DI2 Adapter B. * If the situation does not improve, the DI2 Adapter B might be damaged. Consult an agency.
ID720	The BOSCH eBike Drive Unit is not compatible with the DI2 Adapter B.	Check the BOSCH eBike Drive Unit. Refer to "Compatibility Chart" on page 6. Or consult an agency.
ID724	Rear shifting system adjustment has failed.	<ol style="list-style-type: none"> 1. If the rear derailleur is connected, check the adjustment bolt and adjust its tightness. 2. Check the product related to the gear shift alone with E-TUBE PROJECT. * If the situation does not improve, electric wire might be damaged. Consult an agency.
ID725	The SEIS* which is not compatible with the DI2 Adapter B may be currently connected.	<ul style="list-style-type: none"> • Check the SEIS* compatibility chart. If a product not on the SEIS* compatibility chart has been connected, remove or exchange it for a compatible product. <p>* Other models may also be compatible with the DI2 Adapter B by updating the firmware; update all the connected SEIS* firmware via E-TUBE PROJECT to the latest version.</p>
ID726	The SEIS* shifting unit of DI2 may not be properly connected.	<ol style="list-style-type: none"> 1. Turn off the power and check if the electric wire is correctly connected. Then turn on the power again. 2. Check the product related to the gear shift alone with E-TUBE PROJECT. * If the situation does not improve, the electric wire might be damaged. Consult an agency.
ID727	The DI2 shifting switch may not be properly connected.	<ol style="list-style-type: none"> 1. Turn off the power and check if the electric wire is correctly connected. Then turn on the power again. 2. Check the shift switch of DI2 alone with E-TUBE PROJECT. * If the situation does not improve, the electric wire might be damaged. Consult an agency.
ID729	An assist switch compatible with SHIMANO STEPS is connected.	This switch doesn't work with the DI2 Adapter B. Change the switch mode from assist mode switch to gear shifting switch with E-TUBE PROJECT.
ID799	The BOSCH eBike Drive Unit software version is not supported.	Update to a supported BOSCH eBike Drive Unit version of the software.

* SEIS: SHIMANO ELECTRONIC INTELLIGENT SYSTEM

* If there is a malfunction, but the error code is not displayed on the BOSCH display, use E-TUBE PROJECT or a BOSCH diagnosis tool to investigate in greater detail.

Items diagnosable in E-TUBE PROJECT

The following items can be diagnosed using E-TUBE PROJECT.
Refer to the help manual for E-TUBE PROJECT for details.

Diagnosable Items	Presence of a power supply from the BOSCH eBike system
	Communication status between the BOSCH eBike drive unit and DI2 Adapter B
	DI2 Adapter B and BOSCH eBike drive unit compatibility
	Error check with only the DI2 Adapter B connected

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

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