

Dealer's Manual

| | | |
|--------|-----------|---------|
| ROAD | GRAVEL | MTB |
| E-BIKE | LIFESTYLE | GENERAL |

LIFESTYLE Di2 Series General Guide

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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 distributor for assistance.

- Make sure to read all manuals included with each 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.
- The Bluetooth[®] word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by SHIMANO INC. is under license.
Other trademarks and trade names are those of their respective owners.
- ANT[®] and ANT+[®] are trademarks or registered trademarks of ANT Wireless.

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.

Be sure to also inform users of the following:

- Clean the chain and QUICK-LINK with an appropriate chain cleaner regularly. Intervals between maintenance depend on the use and riding circumstances. Never use alkali- or acid-based solvents such as rust cleaners. If those solvents are used the chain or QUICK-LINK might break and cause serious injury.
- Check that the wheels are fastened securely before riding the bicycle. Using the axle release lever incorrectly may cause the wheel to fall off, etc. and lead to serious injury due to a fall or collision.
- Check the chain for any damage (deformation or cracking), skipping, or other abnormalities such as unintended gear shifting. If any problems are found, consult your place of purchase or a distributor. The chain may break, and you may fall.
- Be careful not to let the hemming of your clothes get caught in the chain while riding. Otherwise, you may fall off the bicycle.

For installation to the bicycle and maintenance

- **When operating the shift switch, be careful not to allow your fingers to be caught in the derailleur. The motor in the derailleur is powerful enough to be operated without stopping until the shifting position is reached, and may cause serious injury if your fingers interfere with the shifting motion.**

NOTICE

Be sure to also inform users of the following:

- The connectors are small and waterproof, so do not connect and disconnect electric wires except when necessary. Doing so may impair the waterproofing.
- Be careful not to get water into the connection terminals of the E-TUBE ports.
- The components are designed to be fully waterproofed to 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.
- Be sure to keep rotating the crank arm during gear shifting operations.
- Handle the components carefully, and avoid subjecting them to strong shock.
- Do not use the thinners or harsh solvents to clean the products. Such solvents may damage the surface. When cleaning the products, use a cloth moistened with a neutral detergent diluted with water.
- If gear shifting operation does not feel smooth, consult the place of purchase for assistance.
- Keep away from magnetic objects. If this is not observed, problems with operation may occur.
- Contact the place of purchase for updates of the component 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 attach dummy plugs to any unused E-TUBE ports.
- Be sure to use SHIMANO original tool TL-EW02 / TL-EW300 to remove and install the electric wires.

■ Electric wire

- Secure the electric wires with a zip tie so that they do not interfere with the gears or tires.
- Do not remove the wire holders which are attached to the internal type electric wires (EW-SD50-I / EW-SD300-I). The wire holders prevent the electric wires from moving inside the frame.
- When installing to the bicycle, do not forcibly bend the electric wire plug. It may result in a poor connection.
- When connecting electric wires, make sure that foreign matter does not get inside the plug or E-TUBE port. A connection with foreign matter present may result in a malfunction.
- If the plug is exposed during storage, transportation, or maintenance work, and there is a possibility of foreign matter getting inside, protect the plug with masking tape or a similar material.
- If you do not feel a click when connecting an electric wire, check that there is no foreign matter inside the plug or E-TUBE port. If foreign matter is present, use a blower to remove it. If the problem persists, replace the electric wire with a new one.

■ Notes on reinstalling and replacing components

- When the product is reinstalled or replaced, it is automatically recognized by the system to allow operation according to the settings.
- If the following changes are made to SHIMANO STEPS, they will not be detected by E-TUBE PROJECT Professional or E-TUBE PROJECT Cyclist, due to the legal requirements for an E-BIKE.
 - Replacing a mechanical shifting unit with a Di2 shifting unit, or vice versa
 - Changing the number of gears of a Di2 shifting unit

Note that an E-BIKE with the above changes made cannot be used normally.

- If a malfunction is observed, use E-TUBE PROJECT to update the firmware of each component to the latest version and perform a check again. Also, make sure that E-TUBE PROJECT is the latest version. If the software is not the latest version, the component compatibility or the product functions may not be available.

■ Connection and communication with PC

- PC linkage devices can be used to connect a PC to the bicycle (system or components), and E-TUBE PROJECT Professional can be used to carry out tasks such as customizing single components or the whole system and updating their firmware.

If your version of E-TUBE PROJECT Professional and the firmware for each component are not up to date, there could be problems operating the bicycle. Check the application versions and update them to the latest ones.

- PC linkage device: SM-PCE02
- E-TUBE PROJECT Professional: PC application
- Firmware: Software inside each component

■ Connection and communication with smartphone

- Components that support Bluetooth[®] LE are required to connect the bicycle to a smartphone. Using E-TUBE PROJECT Cyclist enables you to perform a range of tasks, such as customizing individual components or the system, or updating firmware.
 - E-TUBE PROJECT Cyclist: Application for smartphones
 - Firmware: Software inside each component

- Disconnect the Bluetooth[®] LE connection when not using E-TUBE PROJECT Cyclist.
Using the rear derailleur communication function without disconnecting the Bluetooth[®] LE connection increases battery consumption.
- Check the following website for information on compatibility with each component and functional limitations:
(<https://bike.shimano.com/e-tube/project.html>)

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

About this manual

A LIFESTYLE Di2 drive train can be used as follows:

- Combined with SHIMANO STEPS or a drive unit from another company to create an E-BIKE that can perform automatic gear shifting

This document describes a wiring example and the flow of installation procedures for installing a LIFESTYLE Di2 drive train to an E-BIKE.

For details on how to handle individual products (individual components), refer to the dealer's manual for each product.

Dealer's manuals can be viewed at the following link:

<https://si.shimano.com>

Booklet structure

LIFESTYLE Di2 series manuals are split among several booklets, as described below.

The latest manuals are available on our website (<https://si.shimano.com>).

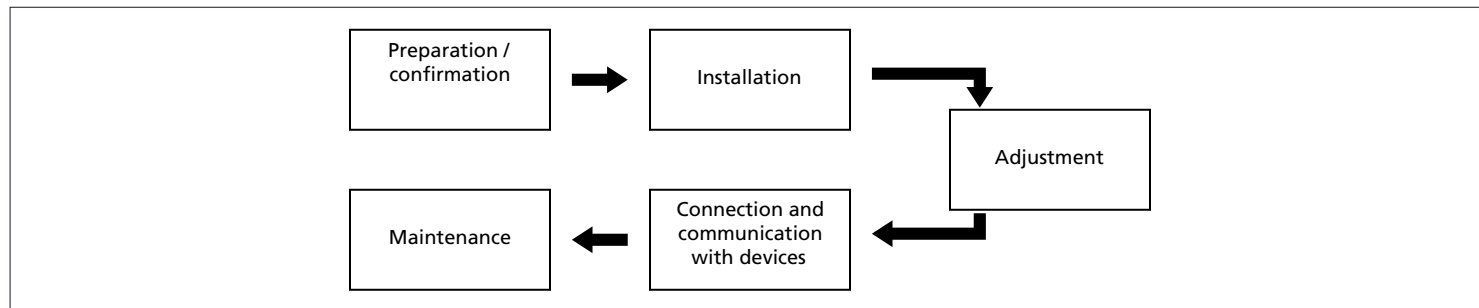
| Name | Details |
|--|--|
| LIFESTYLE Di2 Dealer's Manual General Guide (this manual) | The basic manual for the LIFESTYLE Di2 series. It contains overall wiring diagrams and explanations about installation workflow. |
| Rear Derailleur (Di2) Dealer's Manual <ul style="list-style-type: none"> • Wired gear shifting specifications • Wireless gear shifting specifications | This manual describes rear derailleur installation, adjustment, and maintenance. |
| Internal Geared Hub (Di2) Dealer's Manual <ul style="list-style-type: none"> • NEXUS INTER-5E (C7050) • ALFINE INTER-11/8 (S7051) • ALFINE INTER-11/8 (S705 / S505) / NEXUS INTER-8 (C6060 / C6061) | This manual describes internal geared hub and motor unit installation and maintenance. |
| SHIMANO STEPS Cycle Computer and Switch Unit Parts Dealer's Manual (Gen.2) | It contains the following content: <ul style="list-style-type: none"> • Installation and maintenance of the SHIMANO STEPS special cycle computer and switch unit • How to connect to E-TUBE PROJECT Professional |
| Di2 Cable (for the BOSCH Smart System) Dealer's Manual | This manual describes the method for installing the Di2 cable (for the BOSCH Smart System). |
| E-TUBE PROJECT Professional User's Manual | This manual describes the method for pairing the wireless gear shifting component, the method for configuring and adjusting the Di2 component, and the method for updating the firmware. |
| E-TUBE PROJECT Cyclist User's Manual | This manual describes the method for pairing the wireless gear shifting component, the method for configuring and adjusting the Di2 component, and the method for updating the firmware. |
| E-TUBE PROJECT Cyclist User's Manual (separate booklet) | This manual describes the method for connecting a component with wireless functionality to E-TUBE PROJECT Cyclist. |

TECH TIPS

- Refer to this along with the following dealer's manuals:
 - Dealer's manuals for components related to the E-BIKE system, such as the drive unit and battery mount
 - Brake System Dealer's Manual

Workflow overview

We recommend the following workflow.



Preparation / confirmation

| Process | Reference |
|-------------------------|--|
| Checking wiring | "Overall wiring diagram" (this manual) |
| Pairing | Rear Derailleur (Di2) Dealer's Manual (Wireless gear shifting specifications) Internal Geared Hub (Di2) Dealer's Manual (NEXUS INTER-5E (C7050)) E-TUBE PROJECT Professional User's Manual E-TUBE PROJECT Cyclist User's Manual |
| Handling electric wires | "Electric wires" (this manual) |

Installation

| Process | Reference |
|--|---|
| Installing the shift switch | SHIMANO STEPS Cycle Computer and Switch Unit Parts Dealer's Manual (Gen.2) |
| Installing the rear derailleur | Rear Derailleur (Di2) Dealer's Manual <ul style="list-style-type: none"> • Wired gear shifting specifications • Wireless gear shifting specifications |
| Installing the internal geared hub and motor unit | Internal Geared Hub (Di2) Dealer's Manual |
| Installing the brake system | Dealer's manual for your brake system |
| Confirming the chain length / installing the chain | <ul style="list-style-type: none"> • Rear Derailleur (Di2) Dealer's Manual <ul style="list-style-type: none"> - Wired gear shifting specifications - Wireless gear shifting specifications • Chain Dealer's Manual • General Operations |
| Operation check | "Checking connections" (this manual) |

NOTICE

- A SHIMANO STEPS drive unit requires a chain to secure the chainring. Therefore, the chain must be installed before securing the chainring with the lock ring. Refer to the SHIMANO STEPS dealer's manual for details.

Adjustment

| Process | Reference |
|---|---|
| Adjusting the rear derailleur | Rear Derailleur (Di2) Dealer's Manual <ul style="list-style-type: none"> • Wired gear shifting specifications • Wireless gear shifting specifications |
| Motor unit adjustment | Internal Geared Hub (Di2) Dealer's Manual E-TUBE PROJECT Professional User's Manual E-TUBE PROJECT Cyclist User's Manual |
| Chain tension adjustment (when using an internal geared hub with SHIMANO STEPS) | Drive Unit Dealer's Manual |

TECH TIPS

- If a SHIMANO STEPS cycle computer is installed, gear shifting adjustment may be performed from the cycle computer. For details, refer to the [SHIMANO STEPS Cycle Computer and Switch Unit Parts Dealer's Manual \(Gen.2\)](#).

Connection and communication with devices



| Process | Reference |
|---|---|
| Connection and communication with devices | Rear Derailleur Dealer's Manual Motor Unit User's Manual |

Maintenance

| Process | Reference |
|-------------|---|
| Maintenance | Dealer's manual for individual components |

List of tools to be used

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

| Tool | |
|---|----------|
|  | TL-EW02 |
|  | TL-EW300 |

Installation / removal

Introduction

Di2 systems compatible with wireless gear shifting differ from existing Di2 systems in the following ways:

- Di2 systems with wireless gear shifting do not require a conventional junction [A] or a separate wireless unit.
- The rear derailleur and motor unit have functionality for wireless connection with external devices (Bluetooth[®] LE or ANT[®]) and a function button to switch automatic gear shifting and access the adjustment mode, etc.

Overall wiring diagram

Route the wires through the frame before installing each component.

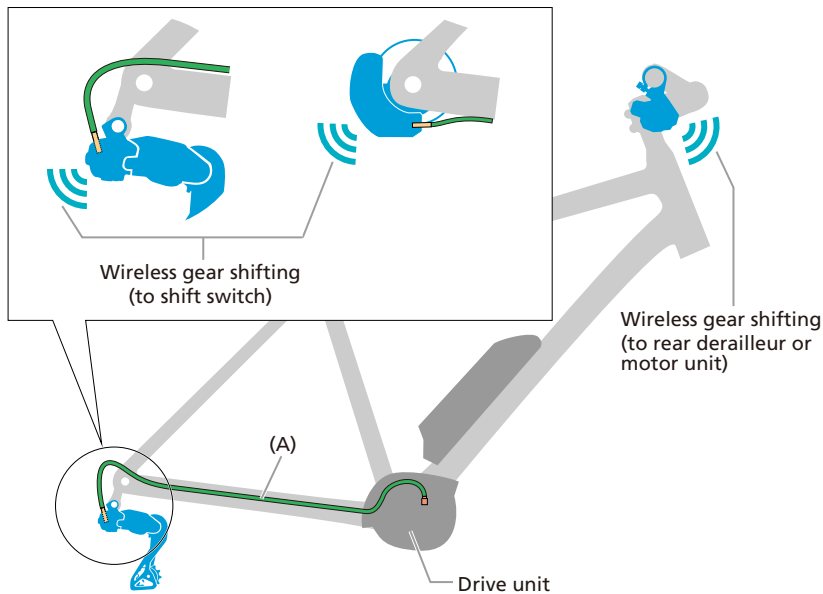
With an E-BIKE, the rear derailleur and motor unit receive power from the battery via the drive unit, regardless of whether wireless gear shifting or wired gear shifting is performed.

NOTICE

- Be sure to attach the dummy plugs to any E-TUBE ports that do not have electric wires connected to them. The product will not operate normally if the dummy plugs are not attached.

Example wiring for wireless gear shifting

The rear derailleur and motor unit can connect to external devices via Bluetooth[®] LE or ANT[®]. Refer to the user's manual for the [rear derailleur](#) or [motor unit](#) for details.



Wiring

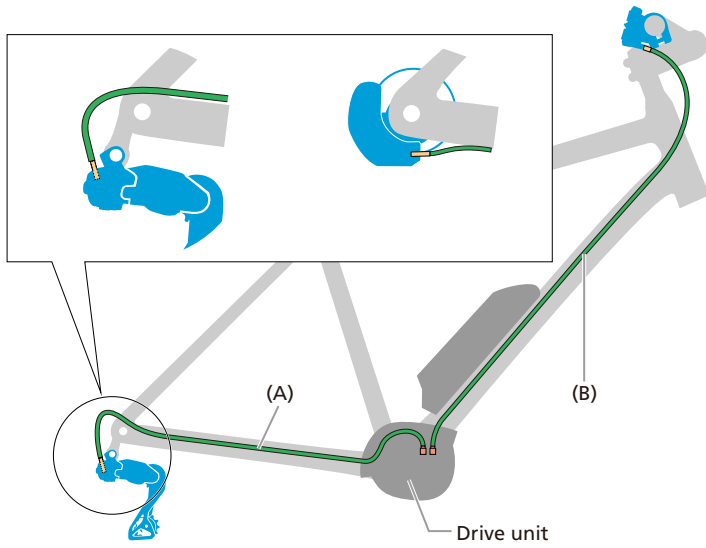
| | | |
|-----|--|-----------------------------|
| (A) | Drive unit to rear derailleur / motor unit (SHIMANO STEPS) * 1 | EW-SD300 (maximum 1,600 mm) |
| | Drive unit to rear derailleur / motor unit (BOSCH Smart System drive unit) | EW-PS300 |

* 1 SHIMANO STEPS compatibility with the wireless gear shifting will be provided in a future firmware update.

Example wiring for wired gear shifting

SHIMANO STEPS enables a cockpit to be configured with a combination of various components. The cockpit wiring differs depending on the components to connect. For details, refer to the [SHIMANO STEPS Cycle Computer and Switch Unit Parts Dealer's Manual \(Gen.2\)](#).

Installation / removal
Overall wiring diagram



Wiring

| | | |
|-----|--|---|
| (A) | Drive unit to rear derailleur / motor unit (SHIMANO STEPS) | EW-SD300 (maximum 1,600 mm between components) |
| (B) | Drive unit to cockpit | |

Electric wires

Be sure to use the SHIMANO original tool to remove and insert electric wires.

There are two types of electric wire: the EW-SD300 and the EW-SD50. The supported electric wire differs based on the component model. Check the component specifications on the SHIMANO product website in advance (<https://productinfo.shimano.com/>).

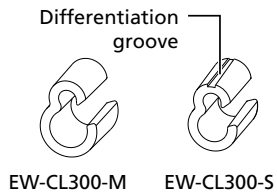
Supported products

The following products support each type of electric wire.

| Product name | Intended purpose | EW-SD300 type | EW-SD50 type |
|---------------------------|---|---|--|
| SHIMANO original tool | Connecting / disconnecting the electric wires | TL-EW300 | TL-EW02 |
| Dummy plug | Plugging empty ports | Y7HE30000 | Y6VE15000 |
| Cord clip | Binding the wiring and the outer casing / brake hose together | EW-CL300-S (for shift outer casing) EW-CL300-M (for outer casing and brake hose) | Y70H98040 |
| Cord cover | Supporting / protecting the electric wire (external wiring) | EW-CC300 | SM-EWC2 |
| Grommet | Installing to the wire insertion hole of a frame that supports internal wiring | EW-GM300-S EW-GM300-M | SM-GM01 SM-GM02 |
| Cord band | Supporting the electric wire (flat handlebar external wiring) | EW-CB300-S EW-CB300-M EW-CB300-L | SM-EWE1 |
| Junction [A] (for Di2) | Gathering the wiring around the cockpit. Also has functions for changing the shift mode, etc. | - | EW-RS910 SM-EW90-A SM-EW90-B |
| Junction [B] | Conjoining the wiring inside and outside the frame | EW-JC304 EW-JC302 | SM-JC41 SM-JC40 EW-JC200 EW-JC130 |
| Conversion adapter | Refer to the " Conversion adapter " section | EW-AD305 | EW-AD305 |

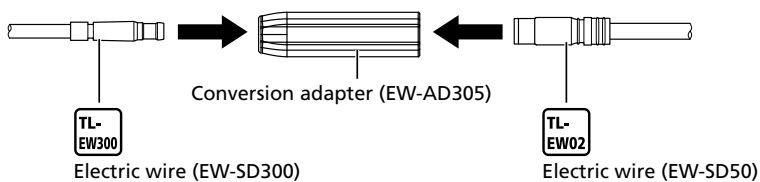
NOTICE

- The SHIMANO original tool used for installation/removal and the accessories used for wiring differ for the EW-SD300 and EW-SD50. Be sure to use a compatible product.
- EW-CL300-S is marked with a groove in order to differentiate it from EW-CL300-M.



Conversion adapter

A conversion adapter (EW-AD305) is required to connect the EW-SD50 to a component with an E-TUBE port for the EW-SD300.



Connecting / disconnecting the electric wires

Be sure to use the SHIMANO original tool to connect and disconnect electric wires.

NOTICE

- When connecting and disconnecting electric wires, do not forcibly bend the plug part. It may result in a poor connection.
- Do not repeatedly connect and disconnect the electric wire too often. The connector may become worn or deformed, and affect the waterproof function or connection function.

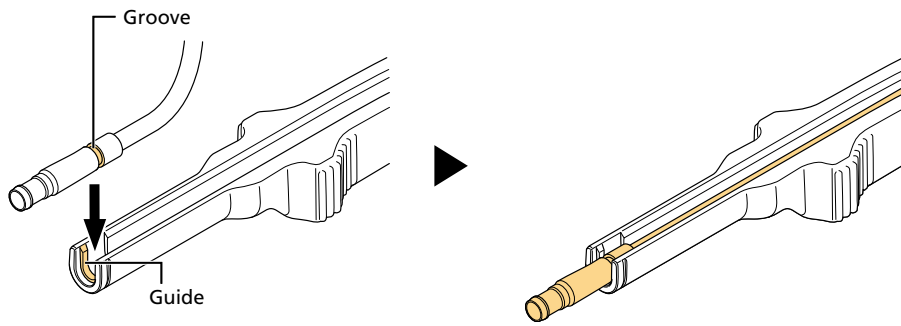
Connecting the electric wire (EW-SD300)

Connect the electric wire to the E-TUBE port.

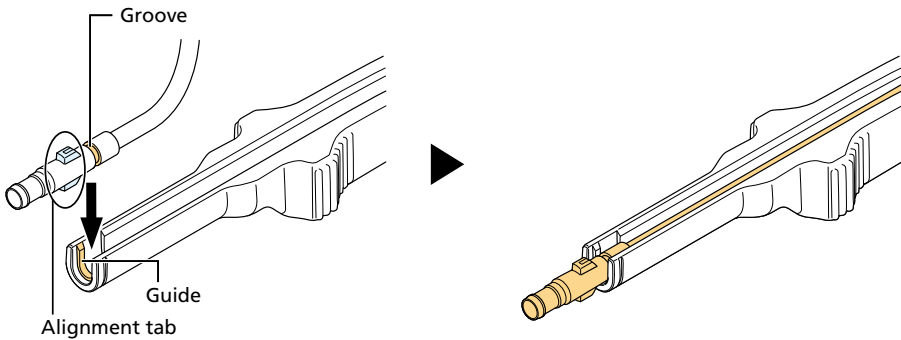
1. Set the plug of the electric wire to the TL-EW300.

If there is an alignment tab on the plug of the electric wire, check the shape of the E-TUBE port you are trying to connect to, and set it aligned with the alignment tab as shown in the figure.

Without alignment tab on plug

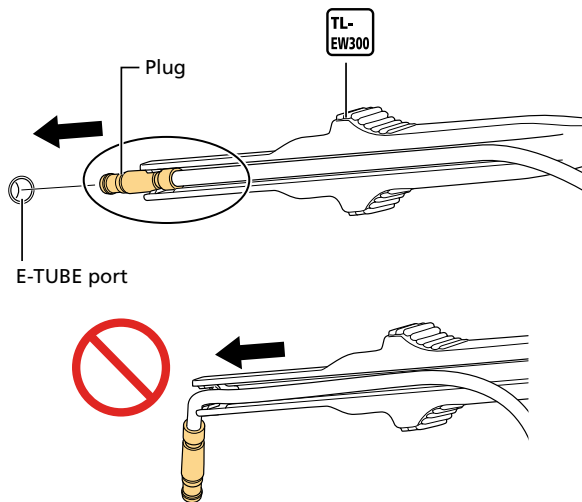


With alignment tab on plug



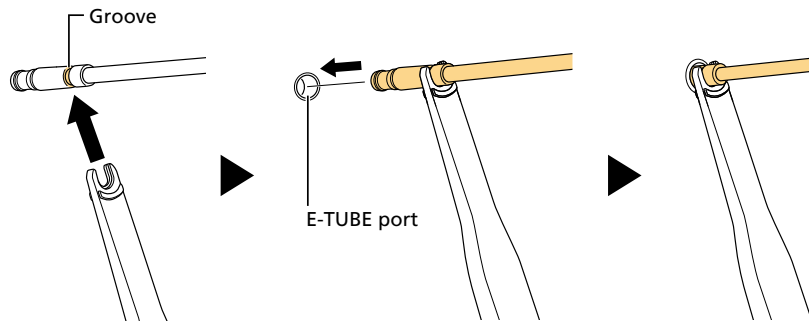
2. Insert the plug on the electric wire into the E-TUBE port.

Push it straight in until you feel it click into place.



TECH TIPS

- You can use the TL-EW300 as indicated in the figure to install the electric wire.

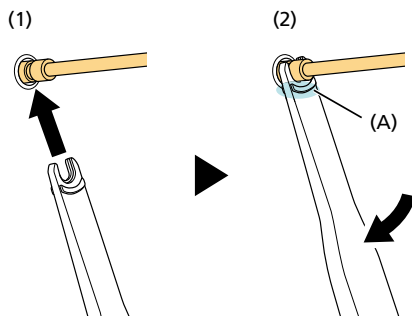


Removing the electric wire (EW-SD300)

1. Disconnect the electric wire.

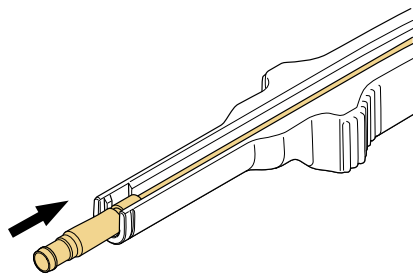
- Insert the TL-EW300 into the groove on the plug part of the electric wire.
- Disconnect the electric wire from the E-TUBE port.

* As shown in the figure, use part (A) of the TL-EW300 as a fulcrum, move the tool like a lever, then disconnect the plug part.



TECH TIPS

- If there is limited space to insert the tool, you can use the TL-EW300 as indicated in the figure to disconnect the electric wire.



Connecting the electric wire (EW-SD50)

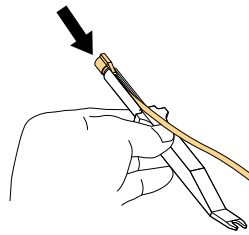
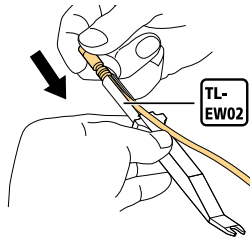
Connect the electric wire to the E-TUBE port.

1. Set the plug of the electric wire to the TL-EW02.

If there is an alignment tab on the plug of the electric wire, set it aligned with the groove on the SHIMANO original tool.

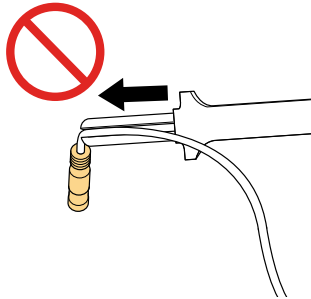
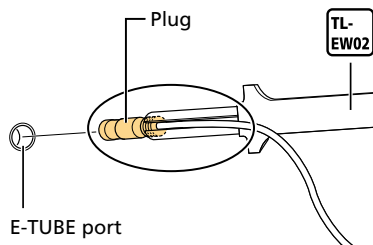
Without alignment tab on plug

With alignment tab on plug



2. Insert the plug on the electric wire into the E-TUBE port.

Push it straight in until you feel it click into place.



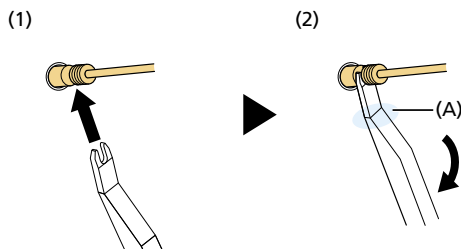
Removing the electric wire (EW-SD50)

1. Disconnect the electric wire.

(1) Insert the TL-EW02 into the groove on the plug of the electric wire.

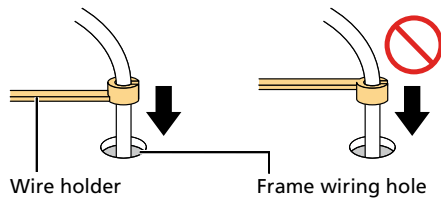
(2) Disconnect the electric wire from the E-TUBE port.

* As shown in the figure, use part (A) of the TL-EW02 as a fulcrum, move the tool like a lever, then disconnect the plug part. If there is limited space to insert the tool, lift the TL-EW02 straight up and disconnect the electric wire.



Insertion direction of the electric wires for internal use

Electric wires for internal use (EW-SD300-I / EW-SD50-I) come with wire holders to prevent the electric wires from moving inside the frame. When passing an electric wire for internal use through the frame, insert in the direction shown in the figure.



NOTICE

- When passing an electric wire through the frame, handlebar, or other parts, protect the plug with masking tape or a similar material to prevent foreign matter from getting inside.

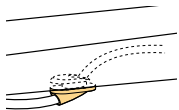
TECH TIPS

- Insert the wire holder in the direction shown in the figure. This will allow the wire holders to be removed more easily when pulling out the electric wire from the frame wiring hole it was inserted into.

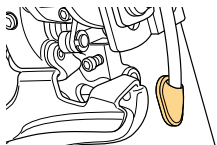
Finishing for internal wiring

When routing the electric wire inside the frame, install a grommet to the wiring hole of the frame for protective purposes after passing the electric wire through the frame.

Example of installing to the chainstay (wiring to the rear derailleur)

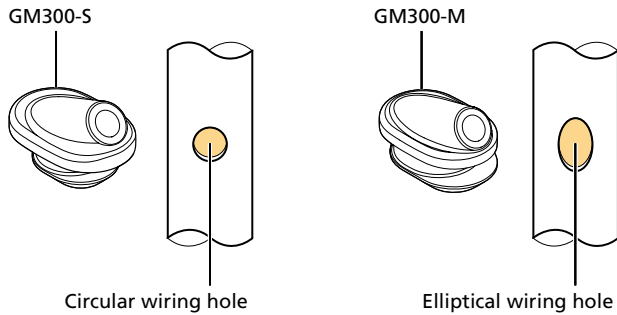


Example of installing to the seat tube (wiring to the front derailleur)



TECH TIPS

- There are two types of grommets as shown in the figure. Use the correct one according to the shape of the wiring hole.



1. Install each component and connect the electric wire.

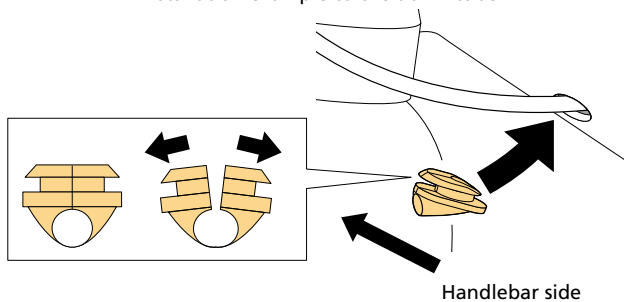
For details, refer to the dealer's manuals for individual components. Pass the electric wire through the inside of the frame as indicated in the wiring diagram, and connect each component.

2. After installing and connecting all the components, perform the procedures in “ [Checking connections.](#)”

3. Open the grommet from the center, and place it over the electric wire in the appropriate position.

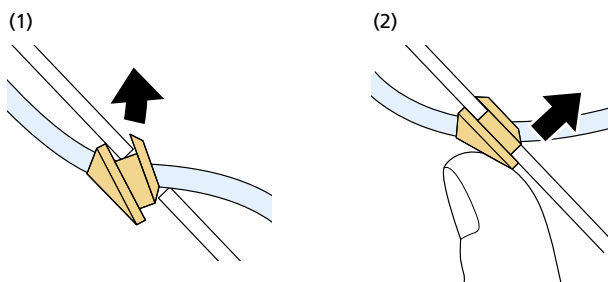
Perform the procedure after determining the length of the electric wire to expose from the frame in advance.

Installation example to the down tube



4. Install the grommet.

- (1) Insert the grommet so that it hooks onto the wiring hole of the frame.
- (2) Push in the grommet with your finger.



TECH TIPS

- If the grommet is difficult to insert, spray it with isopropyl alcohol to aid installation.

Checking connections

Place the bicycle on a workbench, etc. in advance so that the rear wheel can rotate.

1. Turn the power of the bicycle ON.

Refer to the manual describing the power operations of the E-BIKE, such as the SHIMANO STEPS user's manual.

2. Operate the shift switch, and confirm that the rear derailleur or motor unit operates.

To confirm gear shifting, operate the shift switch while turning the crank. In this process, focus only on whether it operates. If gear shifting feels abnormal, perform gear shifting adjustment after this procedure is complete.

3. Check the LED operation of each component.

- (1) Confirm that the rear derailleur or motor unit switches operation with the function button and that the LED operates.
- (2) If the shift switch has an LED, confirm that operation switches with the A button and that the LED operates.

4. Connect the bicycle to E-TUBE PROJECT and check whether each component is displayed in E-TUBE PROJECT.

If there is a problem with the component connection, return to the installation procedure for each component, and check the electric wire connections and pairing.

When connecting a SHIMANO STEPS drive unit to E-TUBE PROJECT Professional

See the following:

- [SHIMANO STEPS Cycle Computer and Switch Unit Parts Dealer's Manual \(Gen.2\)](#)
- [E-TUBE PROJECT Professional User's Manual](#)

When connecting a SHIMANO STEPS drive unit to E-TUBE PROJECT Cyclist

Refer to the [E-TUBE PROJECT Cyclist User's Manual](#).

When using a BOSCH Smart System drive unit

Refer to the [E-TUBE PROJECT Cyclist User's Manual](#).

5. When the connection check is complete, perform adjustment of each component as necessary.

Troubleshooting

Error / warning indication

When an error/warning occurs, the LEDs of the shift switch, rear derailleur, and motor unit flash red. If the LED lights red when the shift switch is operated, the coin battery level is low. Replace the coin battery.

If the error persists, contact your place of purchase or a distributor for assistance.

With SHIMANO STEPS, the error/warning code is displayed on the cycle computer to indicate the error status. For details, check the latest version of the following:



<https://si.shimano.com/error>

When a problem occurs

Check the following information if you have a problem.

If the problem is not covered below or cannot be solved with the indicated method, contact a distributor.

| Symptoms | Causes / possibilities | Remedies |
|--|---|---|
| Click cannot be felt when connecting an electric wire. Cannot fully connect a wire. | Is there foreign matter inside the plug or E-TUBE port? | Check that there is no foreign matter inside the plug or E-TUBE port. If foreign matter is present, use a blower to remove it. If the problem persists, replace the electric wire with a new one. |

Also refer to the following.

If the problem is not covered or cannot be solved with the indicated method, contact the place of purchase or a distributor.

- **SHIMANO STEPS FAQ**



<https://bike.shimano.com/faq/STP0A>

- **Di2 FAQ**



<https://bike.shimano.com/faq/DI20A>

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
Only EU General Contact : contactshimano@shimano-eu.com

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