

Dealer's Manual

ROAD	GRAVEL	MTB
E-BIKE	LIFESTYLE	GENERAL

Shift Switch

XTR

SW-M9250

DEORE XT

SW-M8250

DEORE

SW-M6250

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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.

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.
- For information on products not explained in this manual, refer to the manuals for each product.

Be sure to also inform users of the following:

- Do not disassemble the product. Disassembling may cause injury.
- Do not disassemble or modify the product. This may cause the product to not operate correctly, and you may suddenly fall and be seriously injured.
- Do not throw or subject this product to strong shocks. If this is not observed, bursting, overheating or problems with operation may occur.
- Do not let grease adhere to the metal terminals. A conduction failure may result.
- Use only the coin batteries specified. When replacing the coin battery, replace both batteries at the same time with new ones. Using different kinds of coin batteries or new and old coin batteries together may cause the coin batteries to burst, leak fluid, overheat or catch fire, resulting in a fire, injuries or contamination in the surrounding area.
- Coin batteries are hazardous and must be kept away from children. Never put coin batteries in mouth or in any part of the body. Severe or fatal injuries can occur within 2 hours if swallowed or placed inside the body. If this occurs or is suspected, seek medical attention immediately.



- Do not use this equipment in locations where children are likely to be present. If the included coin batteries are swallowed by mistake, seek medical attention immediately.
- Dispose of the coin batteries according to proper country and/or state disposal regulations. Disposal of this product into fire or a hot oven, or mechanically crushing or cutting it, can result in an explosion of the coin batteries.
- Do not use the coin batteries outside their operating temperature ranges. If a battery is used or stored in temperatures which are outside these ranges, fire, injury or problems with operation may occur.
- Do not use the coin batteries if leakages, discoloration, deformation or any other abnormalities occur. If this is not observed, bursting, overheating or problems with operation may occur.
- If any leaked fluid from the coin batteries gets on your skin or clothes, wash it off immediately with clean water. The leaked fluid may damage your skin.
- Do not leave this product in an extremely high temperature surrounding environment such as in a closed vehicle on a hot day, or near a heater. Doing so may result in an explosion of the coin batteries or the leakage of flammable liquid or gas from them.
- Do not subject this product to extremely low air pressure. Doing so may result in an explosion of the coin batteries or the leakage of flammable liquid or gas from them. Transporting this product by air is not a problem.

- When operating the shift switch, be careful not to allow your fingers to be caught in the derailleur. The powerful motor which drives the electronic gear shifting derailleur will operate without stopping until the shifting position is reached.

For installation to the bicycle and maintenance

- Be sure to remove the coin batteries before assembling parts to the bicycle. Failure to do so may cause an electric shock.

⚠ CAUTION

Be sure to also inform users of the following:

- Observe the instructions in the manual for the bicycle in order to ride safely.
- Use the product under the supervision of someone responsible for safety, and only as instructed. Do not allow anyone (including children) with reduced physical, sensory, or mental capacity, or those without experience or knowledge, to use the product.
- Do not allow children to play near the product.
- If any malfunction or trouble occurs, consult the place of purchase or a distributor.
- Never modify the system. Doing so may cause a system error.

NOTICE

Be sure to also inform users of the following:

- Be sure to rotate the crank while performing the switch operations related to gear shifting.
- 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.
- 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.
- Do not turn the bicycle upside down. There is a risk of damage to the shift switch.
- For connectable components, check the compatibility information on the SHIMANO product website (<https://productinfo.shimano.com/#/com>).
- For details on changing settings of the shift switch, contact the place of purchase or a distributor.
- Coin batteries
 - Insert the coin batteries with the correct +/- orientation.
 - Remove the coin batteries if you do not use them for a long period.
 - When the coin batteries are depleted, remove them immediately.
- Store this product or the bicycle with this product installed in a cool indoor location away from direct sunlight and rain (approx. 10 - 20°C). If the storage temperature is too low or too high, the performance of the coin batteries is reduced, and their usable time will be shorter. When using after a long period of non-use, be sure to replace the coin batteries with new ones.
- 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.

List of tools to be used

The following tools are necessary for installation / removal, adjustment, and maintenance purposes.

Tool	
	Cross head screwdriver [#1]
	Slotted screwdriver Blade width at tip: 4.0 - 5.0 mm Blade thickness at tip: 0.5 - 0.6 mm
	2 mm hexagon wrench
	3 mm hexagon wrench
	4 mm hexagon wrench

Installation / removal

Installing the shift switch

When installing parts onto a carbon frame/handlebar, confirm the recommended tightening torque of the carbon frame or handlebar manufacturer. This will prevent damage to the frame/handlebar due to over-torquing or inadequate securing of the components.

TECH TIPS

- To remove the shift switch, reverse the following procedure.

Standard type

The shift switch can be installed to Ø22.2 handlebars.

Before installing the shift switch, refer to the [user's manual for E-TUBE PROJECT Cyclist](#) to pair it with the rear derailleur in advance.

NOTICE

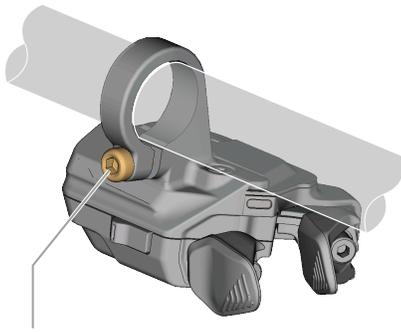
- Do not operate another shift switch while pairing the rear derailleur with a shift switch. Doing so may unintentionally cause pairing with the other shift switch.
- Do not connect a rear derailleur that has not been paired with the battery, or turn on the power of a bicycle with a rear derailleur that has not been paired while pairing the rear derailleur with a shift switch. The shift switch may be unintentionally paired with the other rear derailleur.
- After pairing, operate the shift switch to confirm that the rear derailleur functions normally.
- If an unintended combination of products is paired, cancel pairing in E-TUBE PROJECT, then perform pairing again. For details on canceling pairing, see the following:

[E-TUBE PROJECT Professional User's Manual](#)

[E-TUBE PROJECT Cyclist User's Manual](#)

1. Tighten the mounting screw.

Use a handlebar grip with a maximum outer diameter of Ø36 mm or less.



Mounting screw

4 3 N·m

NOTICE

- Check that the brake and gear shifting operations are not obstructed.

2. Adjust the angles of switch (X) and switch (Y) as required.

Refer to “ [Adjusting the switch angle](#) ” for the adjustment method.

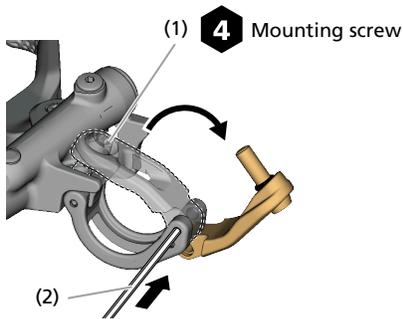
I-SPEC EV

For information on brake levers that can be installed, check the compatibility information (<https://productinfo.shimano.com/#/com>).

When installing parts onto a carbon frame/handlebar, confirm the recommended tightening torque of the carbon frame or handlebar manufacturer. This will prevent damage to the frame/handlebar due to over-torquing or inadequate securing of the components.

1. Open the clamp band of the brake lever.

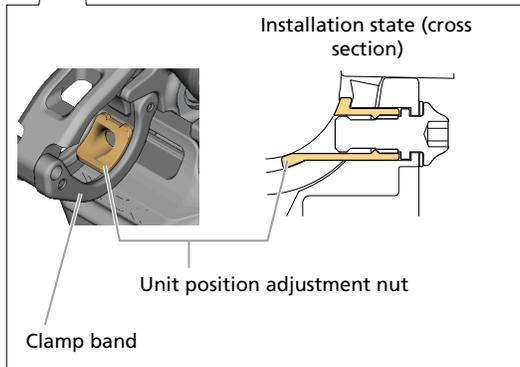
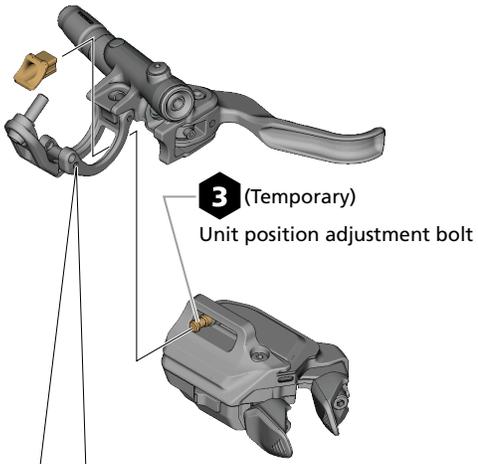
- (1) Loosen the mounting screw.
- (2) Press the recessed area of the clamp band with a tool such as a 2 mm hexagon wrench to disengage the safety latch.



2. Temporarily attach the shift switch to the clamp band.

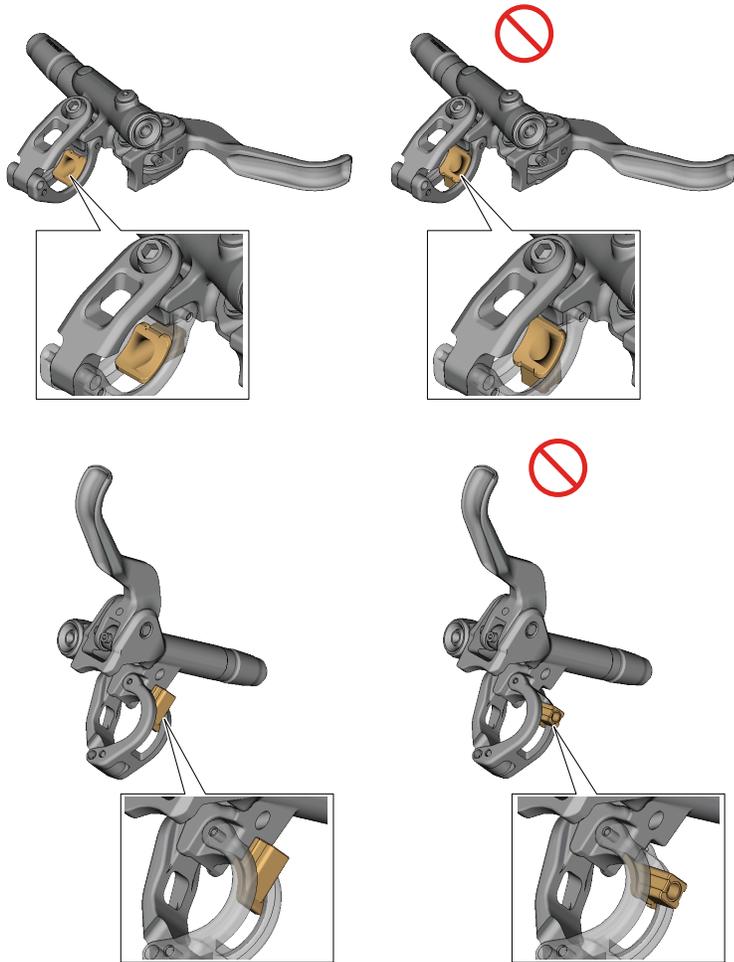
Temporarily install with the unit position adjustment bolt.

Make sure to firmly install the unit position adjustment nut to the clamp band.

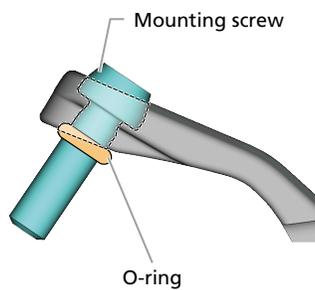


NOTICE

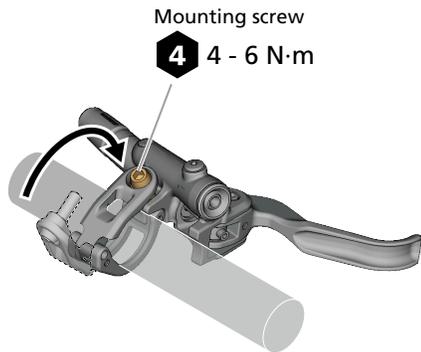
- Note that the unit position adjustment nut has an installation direction.



- 3. Push an O-ring against the clamp band, as shown in the figure.**



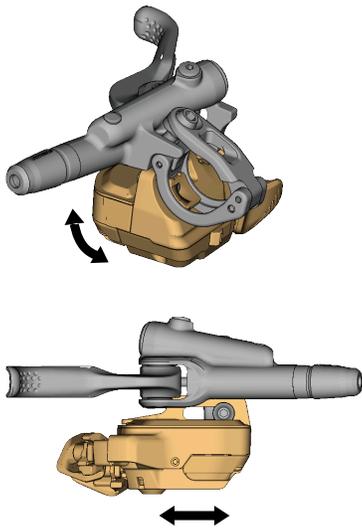
- 4. Install the brake lever to the handlebar.**
Secure it using the mounting screw.



5. Adjust the position of the shift switch.

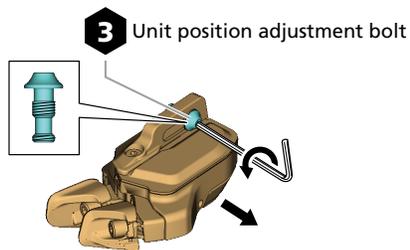
Slide the shift switch horizontally and vertically to adjust it.

If it is difficult to slide, loosen the unit position adjustment bolt.

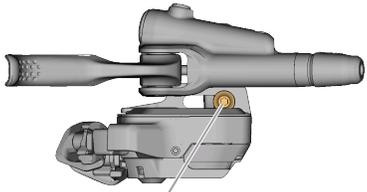


TECH TIPS

- To remove the shift switch, loosen the unit position adjustment bolt while pulling the main body of the shift switch away from the brake lever. Since the thread of the unit position adjustment bolt is interrupted midway to prevent detachment, it is necessary to pull the main body of the shift switch away from the brake lever.



6. Secure the shift switch.



3 3 N·m

Unit position adjustment bolt

7. Adjust the angles of switch (X) and switch (Y) as required.

Refer to " [Adjusting the switch angle](#) " for the adjustment method.

Adjustment

Changing the switch operations

This product enables you to change between double-action and single-action switch operations. For details on switch operations, refer to “ [How to operate](#) ” in the user's manual.

TECH TIPS

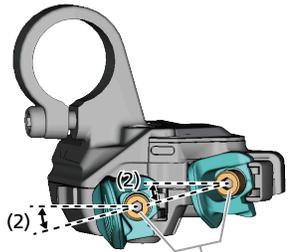
- Only the XTR series enables you to change the switch operations.
- The DEORE series is only available in single action switch operation.

Adjusting the switch angle

This product enables you to adjust the switch angle.

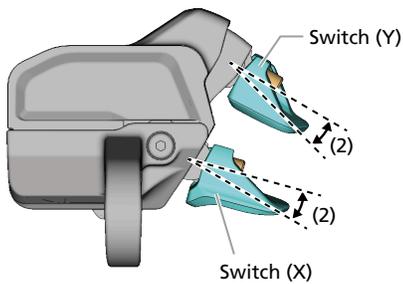
1. Adjust the angles of switch (X) and switch (Y).

- (1) Loosen the switch fixing nuts.
- (2) Adjust the angles of switch (X) and switch (Y).
- (3) Tighten the switch fixing nuts.



(1) (3)
Switch fixing nut

3 2 N·m



TECH TIPS

- Switch angle adjustment is not available in the DEORE series.

Maintenance

Coin battery replacement

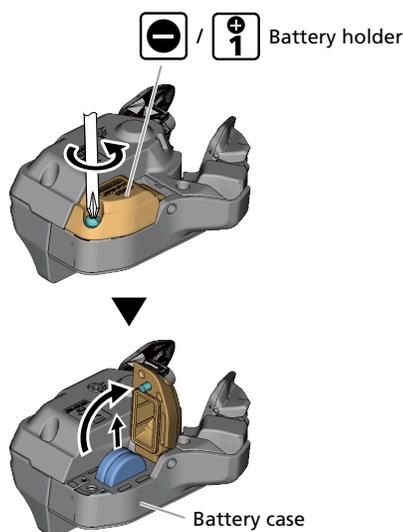
Before replacing the coin batteries

- The supplied coin batteries may be low, as they are intended only for test purposes. When the coin battery level becomes low, replace the coin batteries with new ones.
- When replacing the coin batteries and opening/closing the battery holder, move to an area well away from sources of water (such as rivers, lakes, the ocean, or ditches).
- Do not perform this task in locations with a lot of water or mud, such as outdoors during rain or car washing facilities. If not observed, problems with operation may occur.
- Do not perform this task in areas with a lot of sand or dust in the air. If not observed, problems with operation may occur.
- Before replacing the coin batteries, wipe the battery holder and battery case to remove water, dirt, etc. If not observed, problems with operation may occur.
- Use your hands or an insulated tool with a blunt tip to replace the coin batteries.
- Take care of the terminals when removing the coin batteries in order to prevent damage to the coin batteries.
- When performing this task with your hands, clean your hands and remove all water and dirt.
- Static electricity can damage electronic components. Discharge static electricity from your body before performing this task.
- Use two CR1632 coin batteries.
- It is recommended that you use new coin batteries.

Replacing the coin batteries

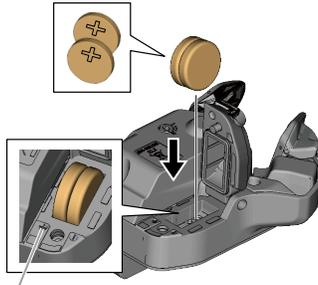
- 1. Open the battery holder using a screwdriver, then remove the two old coin batteries from the battery case.**

If it is difficult to remove a coin battery, affix tape, etc. to the surface of the coin battery and pull it out.



- 2. Set the new coin batteries to the battery case.**

As shown in the figure, set the two coin batteries with the positive (+) side on the side of the + mark.



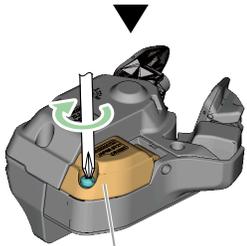
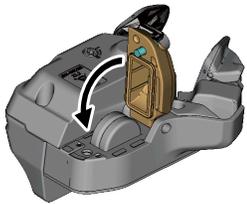
+ mark

TECH TIPS

- Please check the position of the + mark on the actual product and set the coin batteries correctly.

3. Close the battery holder, and firmly secure it with a screwdriver.

Be careful not to overtighten the screw, as it may cause damage.



 /  0.2 N·m
Battery holder

NOTICE

- Before closing the battery holder, check that the waterproof sealing gasket and contacting surfaces are free of foreign substances (such as dirt, dust, sand, hair, thread, or liquids).
- If there are foreign substances present, wipe them away with a clean, dry, and lint-free cloth.
- Open the battery holder only when replacing the coin batteries, and do not leave it open. Doing so may cause problems with operation due to foreign objects getting inside or deterioration to the electronic component, etc.
- Installing the coin battery with the positive (+) and negative (-) polarities reversed will not only stop the component from operating, it may also cause the component to malfunction. Make sure the coin battery is installed correctly.
- After replacement, check that it works normally.

Wireless function

Method for pairing with a rear derailleur or other shifting unit

This product must be paired with a rear derailleur or other shifting unit.

For how to perform pairing, refer to the [dealer's manual for the rear derailleur](#) or the [user's manual for E-TUBE PROJECT Cyclist](#), or contact the place of purchase or a distributor.



https://si.shimano.com/um/7J4MA/PAIRING_PROCESS

2.4 GHz digital wireless systems

This product adopts digital wireless technologies in the 2.4 GHz frequency band, which are used for wireless LAN, etc. It may receive interference in the following locations or environments, which can prevent wireless communication from being performed correctly in extremely rare cases.

- Near televisions, computers, radios, motors or engines, etc.
- Inside vehicles or trains
- Near railway crossings or tracks
- Near television stations or radar stations
- Near other wireless computers or digital control lights

Troubleshooting

Error / warning indication

When an error or warning occurs, the LED flashes red.

If the LED lights solid red when the switch is pressed while riding, the coin battery level is low. Replace the coin battery.

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

When using this product with SHIMANO E-BIKE SYSTEMS and the bicycle has a cycle computer installed, refer to the SHIMANO E-BIKE SYSTEMS Cycle Computer User's Manual for information on the display. For details on error / warning codes, check the latest versions below:



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

When a problem occurs

Refer to the FAQ.

- **SHIMANO E-BIKE SYSTEMS FAQ**



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

- **Di2 FAQ**



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

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