

Dealer's Manual

CI-DECK

Cycle Computer

SC-TX35

Analog Compass

SM-TX37

Bracket

SM-TX35

SM-TX35-A

SM-TX20

SM-TX20-A

Cowling

SM-TX36

SM-TX21

Gear Position Indicator

ID-TX50

ID-TX51

IMPORTANT NOTICE

- This dealer's manual is intended primarily for use by professional bicycle mechanics.

Users who are not professionally trained for bicycle assembly should not attempt to install the components themselves using the dealer's manuals.

If any part of the information on the manual is unclear to you, do not proceed with the installation. Instead, contact your place of purchase or a local bicycle dealer for their assistance.

- Make sure to read all instruction manuals included with the product.
- Do not disassemble or modify the product other than as stated in the information contained in this dealer's manual.
- All dealer's manuals and instruction manuals can be viewed on-line on our website (<http://si.shimano.com>).
- Please observe the appropriate rules and regulations of the country, state or region in which you conduct your business as a dealer.

For safety, be sure to read this dealer's manual thoroughly before use, and follow it for correct use.

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings.

The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.



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



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



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

TO ENSURE SAFETY



WARNING TO PARENT / GUARDIAN

- USE OF THIS PRODUCT IN ACCORDANCE WITH THESE DEALER'S MANUALS IS ESSENTIAL FOR YOUR CHILD'S SAFETY. MAKE SURE YOU AND YOUR CHILD UNDERSTAND THESE DEALER'S MANUALS. FAILURE TO FOLLOW THESE DEALER'S MANUALS MAY RESULT IN SERIOUS PERSONAL INJURY.



WARNING

- **When installing components, be sure to follow the instructions that are given in the instruction manuals.**
It is recommended that you use only genuine Shimano parts. If parts such as bolts and nuts become loose or damaged, the bicycle may suddenly fall over, which may cause serious injury.
In addition, if adjustments are not carried out correctly, problems may occur, and the bicycle may suddenly fall over, which may cause serious injury.
-  Be sure to wear safety glasses or goggles to protect your eyes while performing maintenance tasks such as replacing parts.
- After reading the dealer's manual thoroughly, keep it in a safe place for later reference.

Be sure to also inform users of the following:

- Keep used batteries out of the reach of children, and dispose of them in accordance with local waste regulations. If batteries are swallowed by mistake, seek medical advice immediately.

< SM-TX37 >

- The analog compass may not always point to the right direction if it is installed to the bicycle in a place where it is affected by metal such as brake cables. When checking the direction, stop the bicycle and remove the compass from the bicycle. If you try to check the compass while the bicycle is moving, the bicycle may become unstable because of being ridden with one hand, and this may cause a fall.

< SC-TX35 >

- Be careful not to pay excessive attention to the computer data while riding and do not change the display while riding, otherwise you might have an accident.

NOTE

Be sure to also inform users of the following:

- Be sure to keep turning the crank during the lever operation.
- Do not use thinner or other solvents to clean parts such as the cycle computer and speed sensor, as such chemicals may dissolve the part casings.
- To clean these parts, wipe them with cloth soaked in a weak mixture of neutral detergent and water.

< SC-TX35 >

- If there is no signal from the speed sensor for 120 seconds, the power save function will operate and the LCD will turn off.
- Never disassemble the cycle computer, as it cannot be reassembled.
- The cycle computer is fully waterproofed to withstand wet weather conditions; however, do not deliberately place it into water.
- Avoid leaving the cycle computer exposed to extreme hot weather conditions as much as possible, because if the cycle computer is left exposed to high temperatures or direct sunlight for long periods of time, the LCD may become darkened. If this happens, place the cycle computer in the shade to let it cool down. It will then return to normal.
- The ambient operating temperature range for the cycle computer is -10°C to 50°C . If the temperature is outside this range, the movement of the data display may become sluggish or data may not be displayed.
- Handle the cycle computer carefully, and avoid subjecting it to any shocks.
- The battery which is included when the product is purchased is for the display computer, so the battery life may be shorter than expected.
- Insert the battery so that the (+) side is visible. If the battery is inserted the other way around, the initial setting data will be cleared.

< SM-TX37 >

- The analog compass may not always point to the right direction if it is in a place that is affected by magnetism, even if it has been removed from the bicycle. The direction indicated by the compass should be used only as a reference.
- If the analog compass becomes damaged or starts leaking, stop using it immediately.
- Use the analog compass in a place which is free from steel and sources of magnetic fields.
- This analog compass is classed as a toy for simplified indication of directions. It should not be used for serious applications such as mountain climbing.
- Do not leave the analog compass in places which may reach temperatures of -20°C or lower or 50°C or higher.
- 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:

< ID-TX50 / 51 >

- For smooth operation, use the specified outer casing and the bottom bracket cable guide.
- Use an outer casing which still has some length to spare even when the handlebars are turned all the way to both sides. Furthermore, check that the shifting lever does not touch the bicycle frame when the handlebars are turned all the way.
- Because the high cable resistance of a frame with internal cable routing would impair the SIS function, this type of frame should not be used.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- If gear shifting adjustment cannot be carried out, check the degree of parallelism at the rear end of the bicycle. Also check if the cable is lubricated and if the outer casing is too long or too short.

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

INSTALLATION

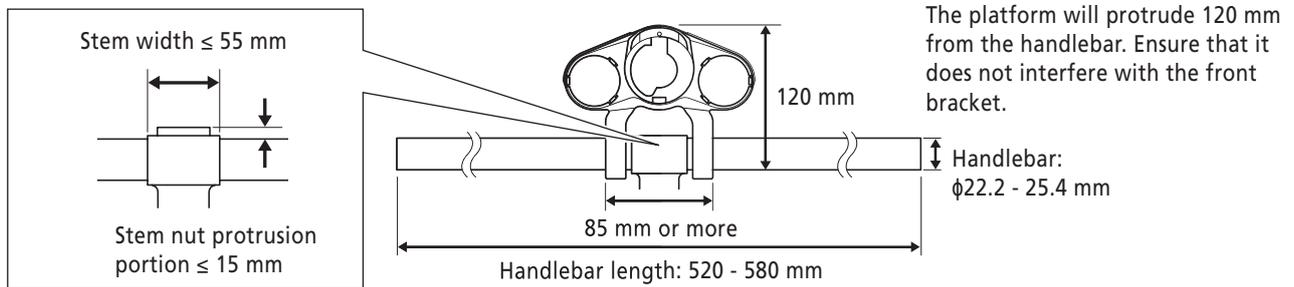
List of tools to be used

The following tools are required to assemble the product.

Where to use	Tool
Clamp band	Phillips screwdriver #2
Cycle computer	Phillips screwdriver #2
Cowling	Phillips screwdriver #2
Cover fixing screw	Phillips screwdriver #1

Recommended dimensions of handlebars and stems

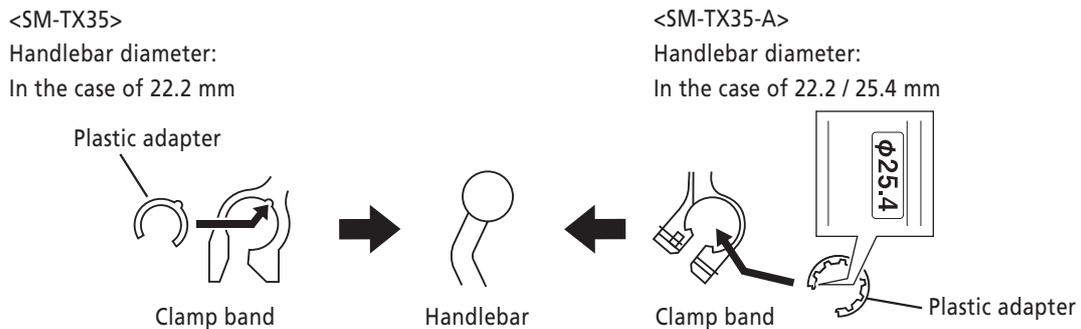
The handlebar should have a minimum length of 85 mm in the straight section for mounting.



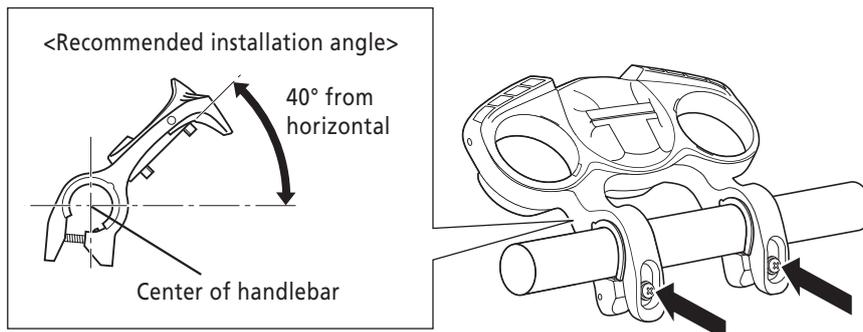
Installing the bracket (In the case of 3 hole bracket)

1. Installing the bracket (SM-TX35 / SM-TX35-A)

Depending on the handlebar diameter, you may need to insert a plastic adapter in between the clamp band and the handlebar.



Widen the clamp band of the bracket, install it to the handlebar and then provisionally secure it.



2. Installing the cycle computer (SC-TX35)

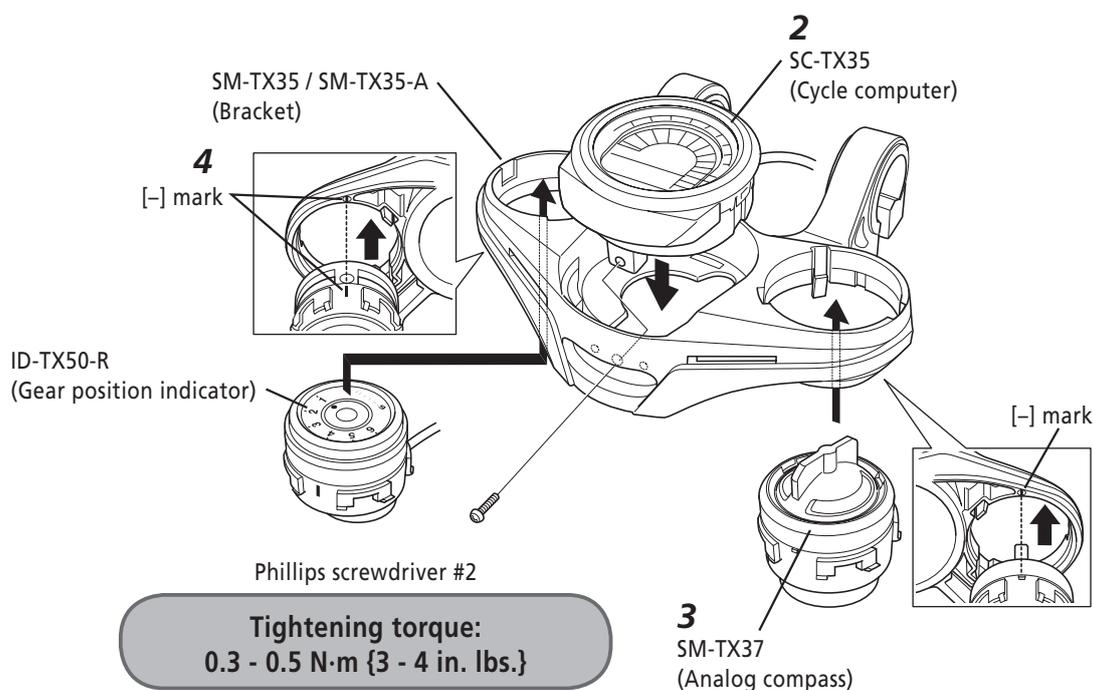
Remove the cover of the bracket that is installed to the handlebar, and then place the cycle computer onto the top of the bracket and secure it by tightening the fixing screw.

3. Installing the analog compass (SM-TX37)

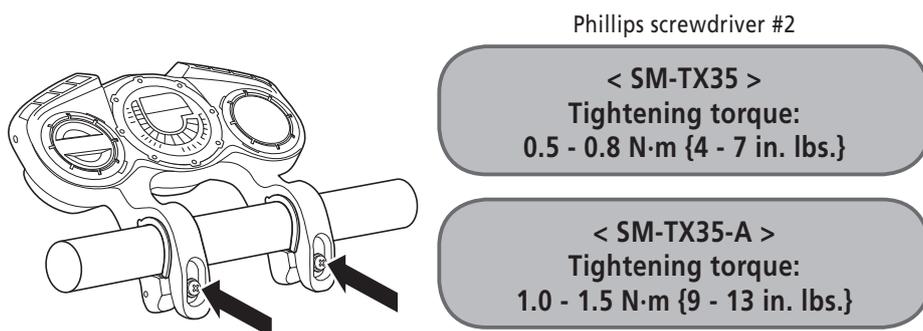
Align the projection on the analog compass with the [-] mark on the underside of the bracket, and push the compass in to install it.

4. Installing the gear position indicator (ID-TX50-R)

Align the [-] mark on the gear position indicator with the [-] mark on the underside of the bracket, and push the indicator in to install it.

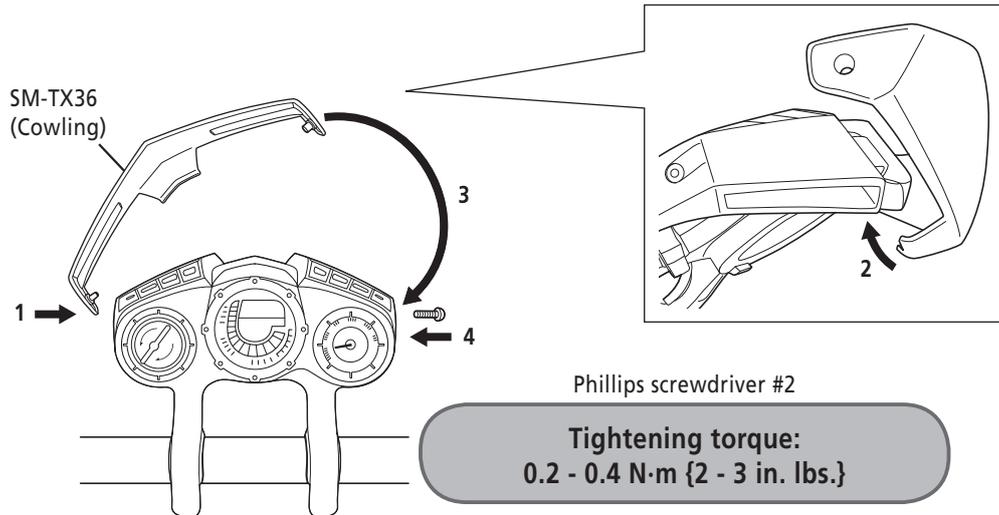


5. Sit on the bicycle and adjust the CI-DECK so that it is in a position where it is easy to see, then tighten it in place.

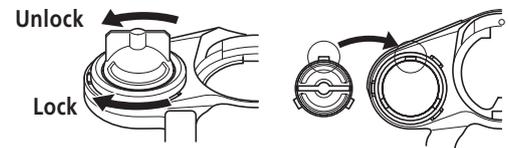


6. Installing the cowling (SM-TX36)

Follow the steps in the illustration to install and tighten the cowling with screws.



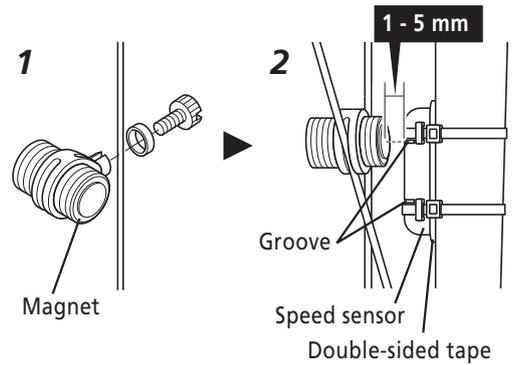
When checking the direction, turn the analog compass counterclockwise to unlock it, and then remove it from the bracket. After checking, align the projections on the analog compass with the hollows in the bracket, and turn the analog compass clockwise to lock it onto the bracket.



■ Cycle computer

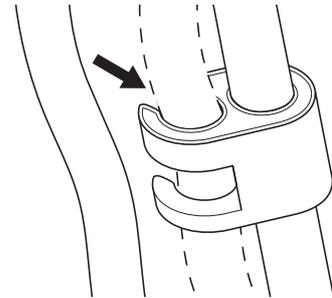
Installing the speed sensor and magnet

1. Hook the groove of the magnet holder onto the intersection of spokes on the left side of the front wheel and provisionally secure it there.
2. Provisionally secure the speed sensor to the front fork with double-sided tape and a zip tie, adjust the magnet so that it is aligned with either one of the two grooves on the speed sensor and so that the distance between the magnet and the speed sensor is 1 - 5 mm. Then secure the speed sensor and the magnet.



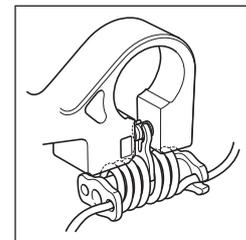
Securing the speed sensor cable

1. Use EZ cable clamps to secure the sensor cable.



EZ cable clamp A: Cable outside diameter 5 mm

2. Use a cable length adjuster to take up any slack in the cable and to secure it to the cable clamp on the bracket.



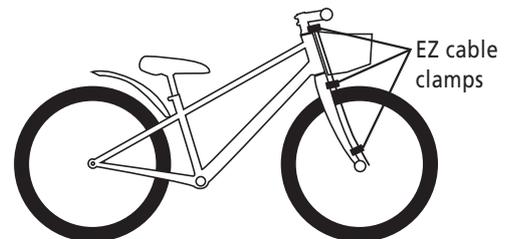
Cable length adjuster

Note:

Secure the cable tightly so that it does not stick out from the frame. Be particularly careful to secure the cable where it runs near the crank arm.

For the front suspension, allow enough extra length for the suspension stroke when adjusting the length of the cable.

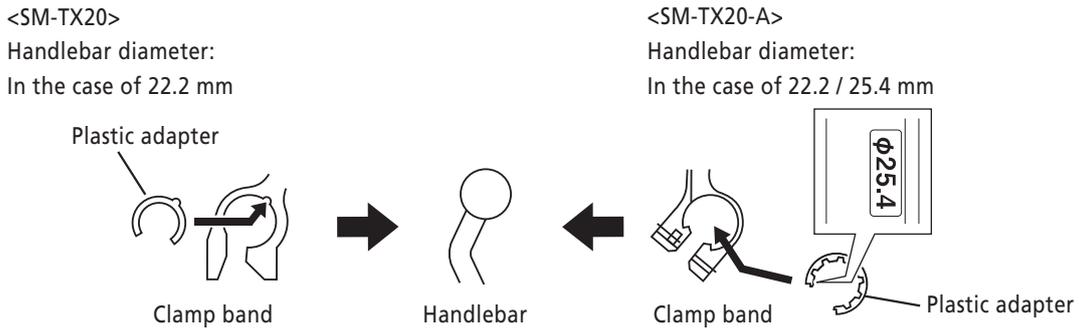
When routing the cable near the bottom bracket, pass the cable over the bottom bracket shell.



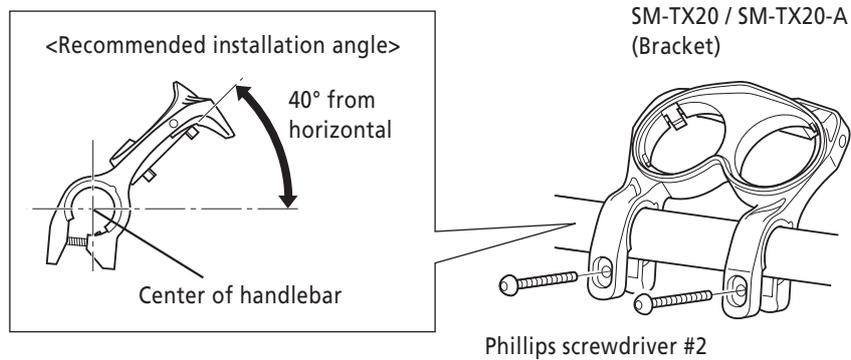
■ Installing the bracket (In the case of 2 hole bracket)

1. Installing the bracket (SM-TX20 / SM-TX20-A)

Depending on the handlebar diameter, you may need to insert a plastic adapter in between the clamp band and the handlebar.

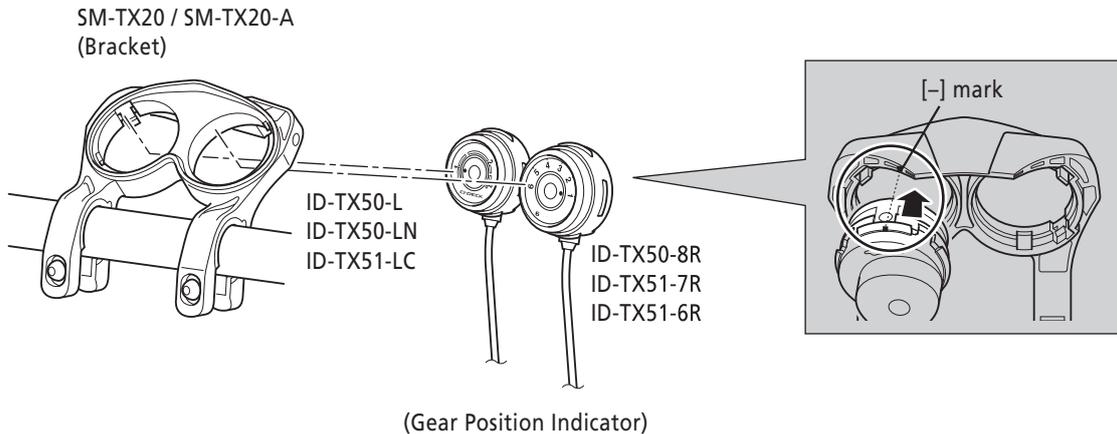


Widen the clamp band of the bracket, install it to the handlebar and then provisionally secure it.

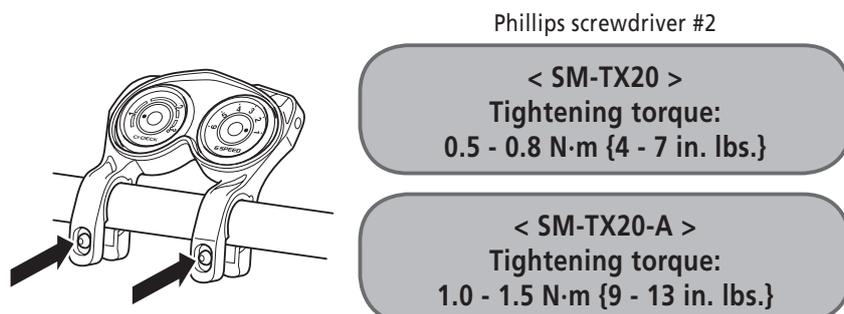


2. Installing the gear position indicator (ID-TX50 / ID-TX51)

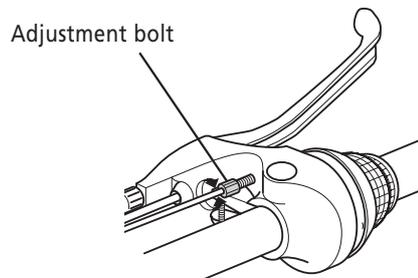
Install the gear position indicator by pressing from the rear so that the [-] mark of the bracket that is installed to the handlebar is aligned with the [-] mark.



3. Sit on the bicycle and adjust the CI-DECK so that it is in a position where it is easy to see, then tighten it in place.

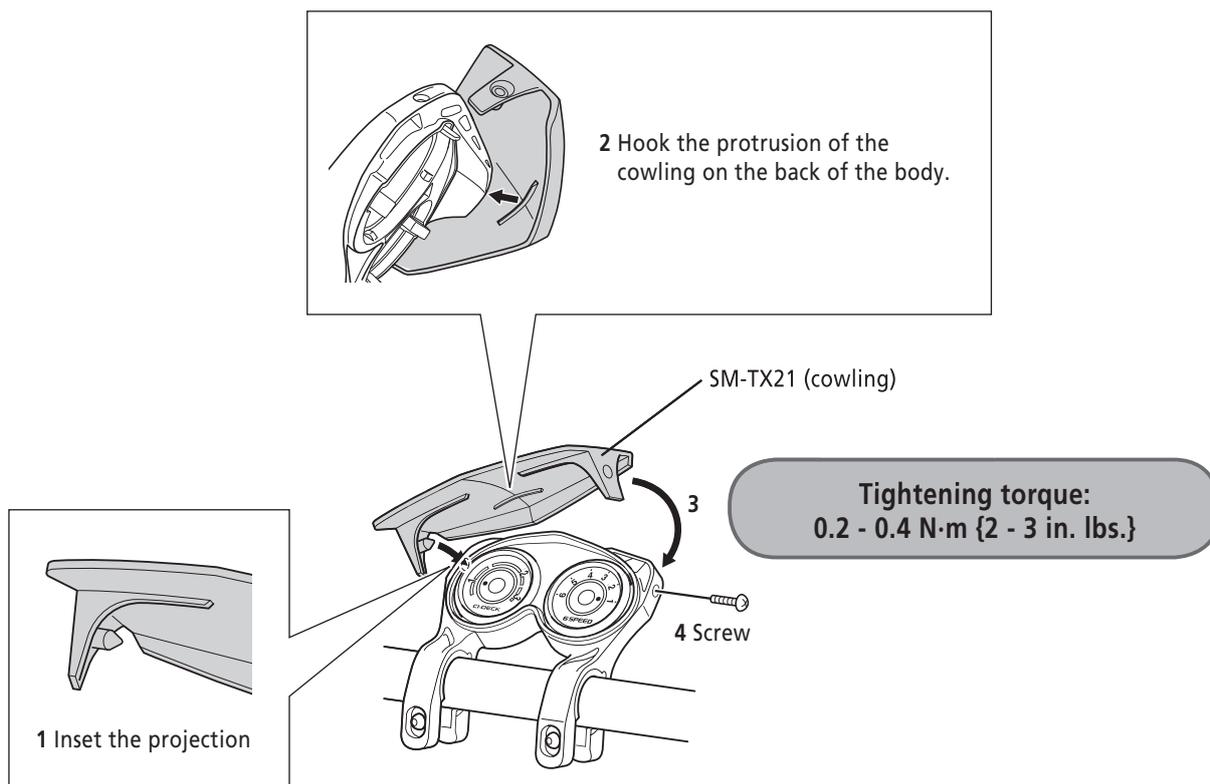


- 4.** Operate the shifter and check that the indicator and numerals match each other.
- If they do not match, adjust by turning the adjustment bolt of the CI-DECK indicator cable that is connected to the shifter.



5. Installing the cowling (SM-TX21)

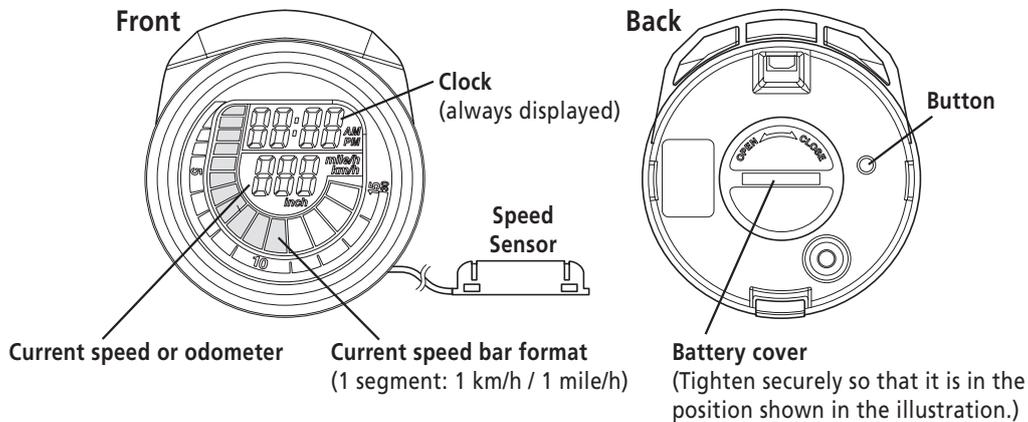
Install a cowling by carrying out steps 1 to 4.



ADJUSTMENT

Settings (cycle computer)

Names of parts



Mode selection

You can switch between speed and cumulative distance displays by pressing the button on the underside of the cycle computer.

Data input

Use the buttons at the back to change the display. If you do not press anything for 5 seconds while the display is flashing, the current settings will be confirmed and the display will change to the next item.

1. Check the tire size.

2. Insert the battery (CR2032).

3. "km/h" flashes.

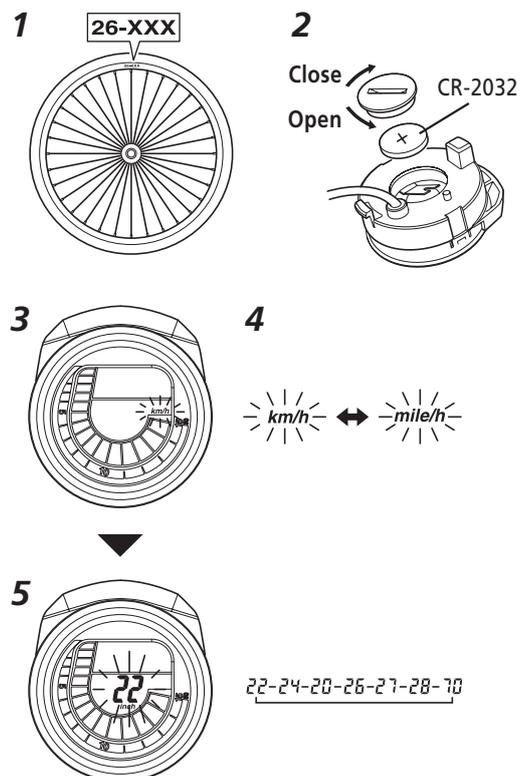
4. For mile display, press the button once to change the display.

Note:

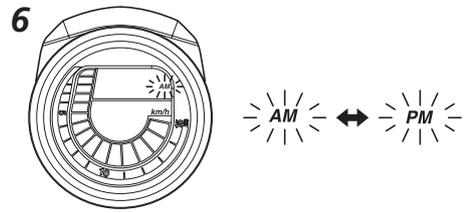
The SC-TX35 are available with either km display or mile display. If using the km speedometer, settings should be made in terms of kilometers, and if using the mile speedometer, settings should be made in terms of miles. If the wrong units are used, the numerical values displayed will not be correct.

5. The numbers flash. (22 - inches will flash initially.)

To display the size of the tire being used, press the button several times to change the display.



- 6.** "AM" flashes.
For "PM" display, press the button once to change the display.

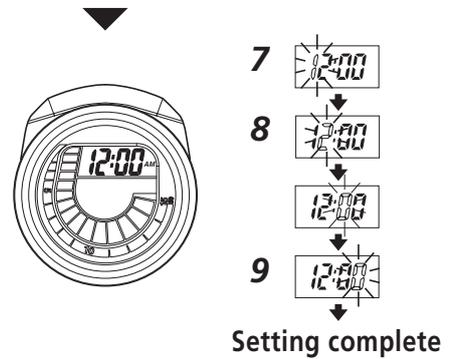


- 7.** The numbers flash.
To display the 1st clock digit (hour), press the button several times to change the display.

- 8.** Repeat step 7 for 2nd and 3rd clock digits.

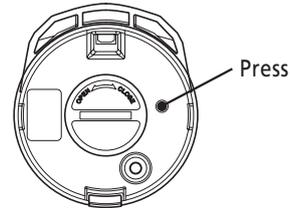
- 9.** The numbers flash.
To display the last clock digit (minutes), press the button several times to change the display.

- 10.** If you press and hold the button for 5 seconds or if you do not press anything for one minute, the clock setting will be confirmed, and this will complete the setting.



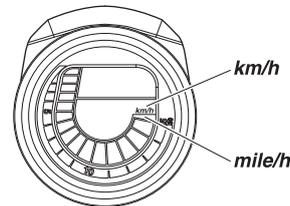
Resetting settings

To reset the settings, press the button once to start the cycle computer. Then remove the battery, wait 30 seconds, and then follow the data input procedure.



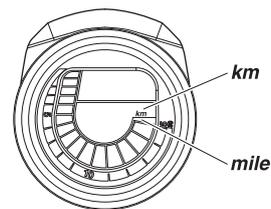
< Changing clock setting >

To change the setting, press the button once to start the cycle computer. Switch the cycle computer to Speed mode ("km/h" or "mile/h"). Press and hold the button for at least 5 seconds, and then follow the data input procedure.



< Changing tire size setting >

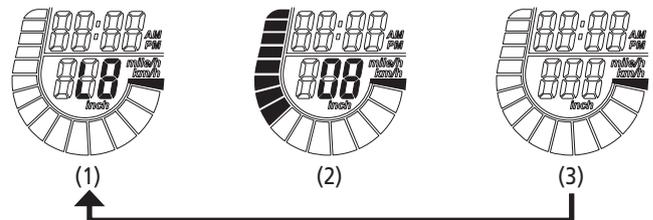
To change the setting, press the button once to start the cycle computer. Switch the cycle computer to Odometer mode ("km" or "mile"). Press and hold the button for at least 5 seconds, and then follow the data input procedure.



< Low battery information >

When the battery level is low, the following display will appear, replace the battery.

- (1) Blink "LB" for 20 times in the display.
- (2) Back to normal mode.
- (3) Turns off in sleep mode.

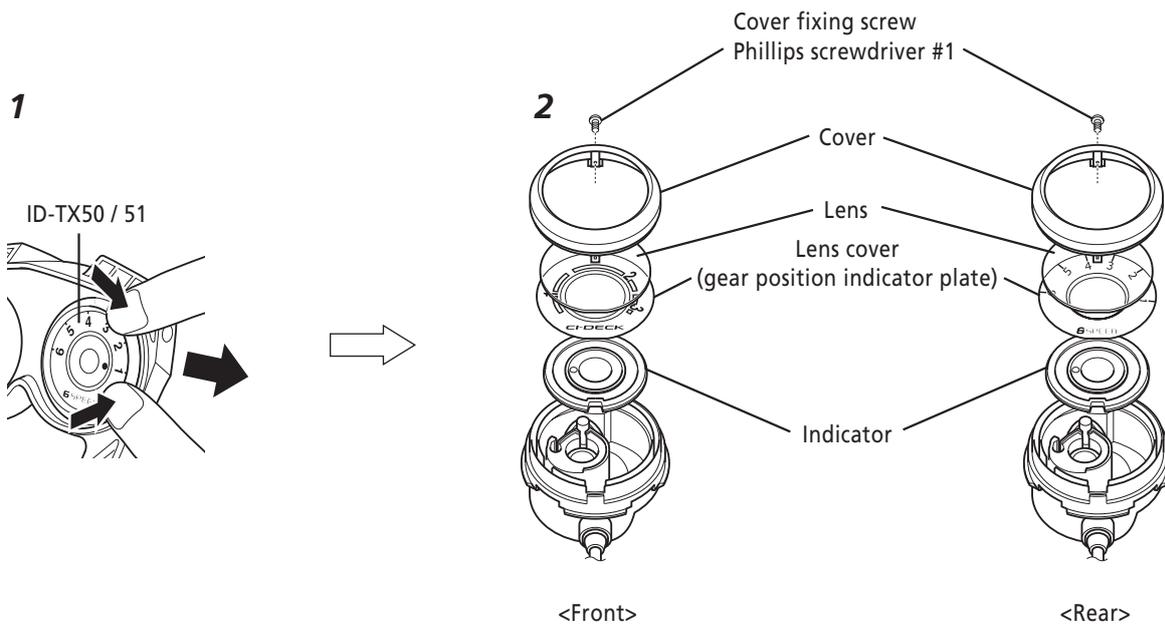


MAINTENANCE

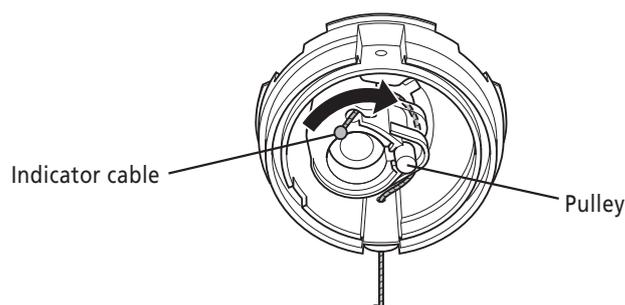
■ Replacing the inner cable of the gear position indicator

At the CI-DECK

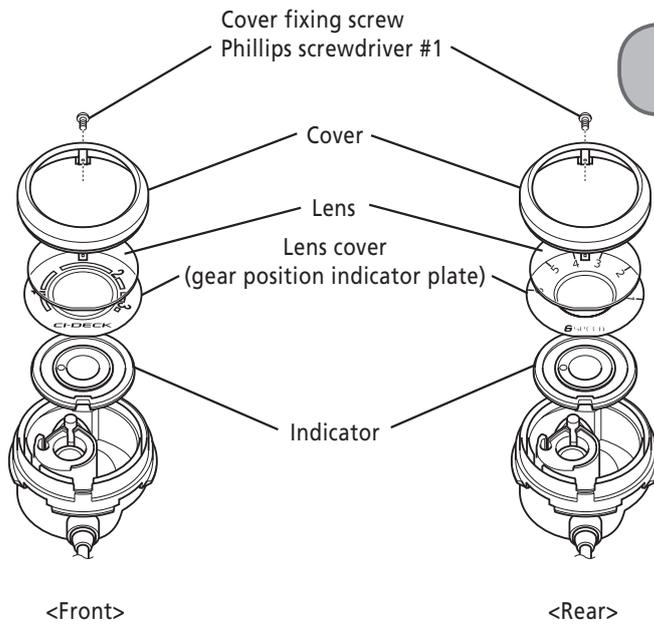
1. Push the surface with both thumbs as shown in the illustration to remove the ID-TX50 / 51.
2. Remove the cover fixing screws and then remove the cover, lens, lens cover and indicator as shown in the illustration.



3. Turn the pulley and remove the cable as shown in the illustration.
4. Turn the pulley clockwise, and then insert the end of the new cable until it is in the position shown in the illustration.



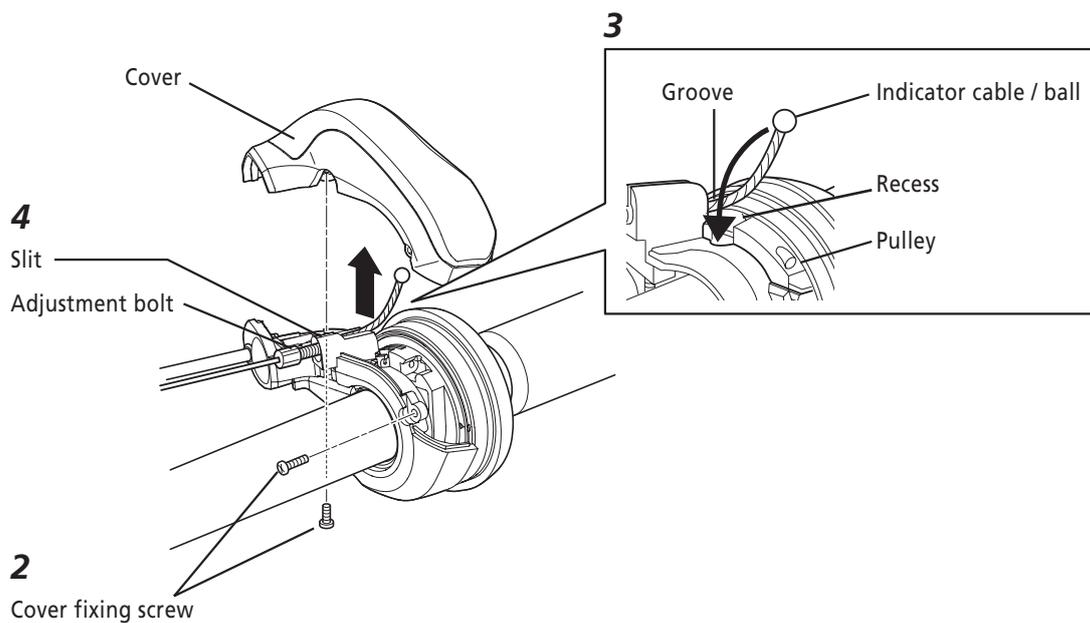
5. Install the indicator, lens cover, lens and cover in that order.



Tightening torque:
0.1 - 0.3 N·m {1 - 3 in. lbs.}

At the shifter

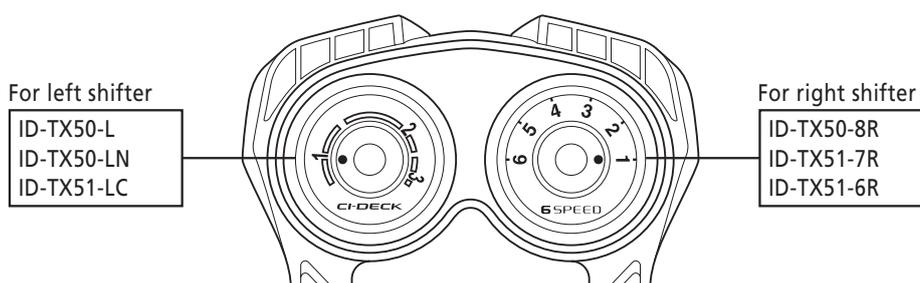
1. Set the right shifter to the top position.
2. Loosen the cover fixing screw and remove the cover.
 - Remove the cover carefully and do not try to force it off, otherwise the hooks that join the cover to the body may become broken.
3. When the cover is removed, the pulley will be visible, so after hooking the ball of the indicator cable into the recess, run the cable along the groove.
4. After this, pass the indicator cable through the slit, and then screw in the adjustment bolt to adjust so that the indicator and the number match.



* The procedure for installing the cover differs depending on the model. Refer to the dealer's manual for REVOSHIFT.

■ Replacement of the lens cover (gear position indicator plate) <From spare parts package>

Remove the cover fixing screw, and replace the lens cover with the one for the gears being used for the bicycle. (Refer to step 2 for replacing the inner cable of the gear position indicator "At the CI-DECK".)



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

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