RIDESENSE User Manual
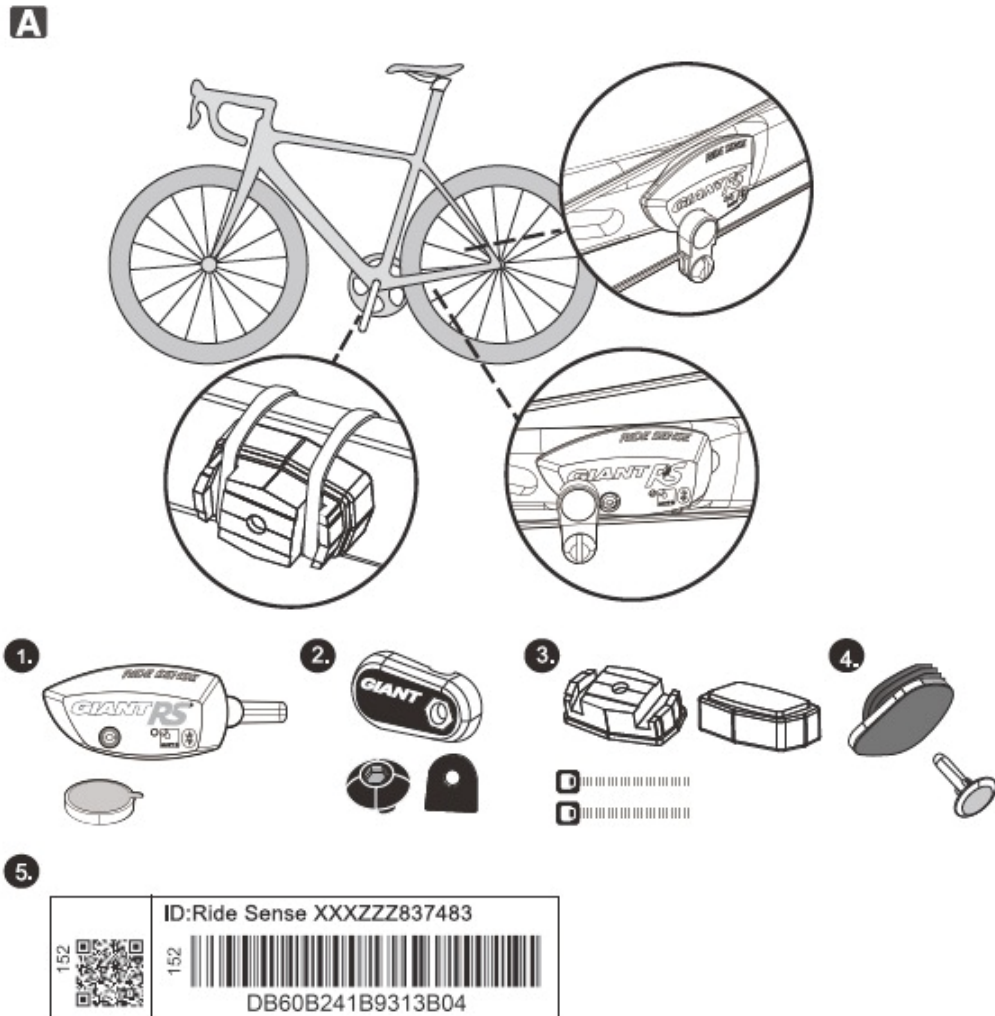
RIDESENSE overview:

The GIANT RIDESENSE employs ANT+ and Bluetooth® Smart (BLE 4.0) license certification technology.

ANT+: ANT+ certification compliant meter.

Bluetooth® Smart (BLE 4.0): Bluetooth® Smart (BLE 4.0) compliant system App.

1. RIDESENSE x1: Hexagon socket head cap screw (SHCS) x1, (for 2.5mm hex wrench with the maximum locking torque of 0.4Nm); washer x1; CR2032 battery x1

2. Speed sensor magnet x1: round head SHCS x1 (for 3mm hex wrench with the maximum locking torque of 0.5Nm); washer x1

3. Revolution sensor magnet x1: ties x2; washer x1

4. Seat stay plug—included with your bike (not included with standalone RIDESENSE product)

5. Pairing code label x1 (the QRcode for mobile phone scanning and the 16-digit bar code for alarm function initiation)

Note: Please check accessories included with your RIDESENSE product before installation. In case of any damage or shortage, call the dealer from whom you purchased your RIDESENSE product or GIANT immediately. For a RIDESENSE product that came with your new bike, remember to get the magnet set and seat stay plug from the dealer who sold you the bike.

Product specification

Specification	Information	Description
Wireless technology	ANT+ Bluetooth® Smart (BLE 4.0)	RIDESENSE is a signal transmission device. See Meter and App manual for details on pairing operation.
Battery	CR2032 battery x1	Please remove the battery from your product if it will not be used for a long time. This will prevent sensor damage by leaking of battery electrolyte.
Time to last (estimate)	May last around 500 hours for continuous use	The battery may last one and half a years when using the product one hour per day.
Sensing range	1. ANT+: 10 meters in open space 2. Bluetooth®: 40 meters in open space	Effective sensing range varies with actual environment conditions.
Water and dirt proof grade	IP X7	
Weight	18 gram	Including one CR2032 battery
LED light indicators	Yellow and red light each	

| Operating temperature range	-20°**C～60°C**	
Speed/pedaling frequency App supported OS versions	Android 4.3 or later; iOS 7 or later	See individual App installation manual for list of compatible models.
Alarm App supported OS versions	Android 4.3 or later; iOS 7 or later	Support GIANT App only. Please refer to individual alarm App setup guidelines.

Function mode

Function	Description	Remark
ANT+ pairing	Connecting to meter ANT+	To enable the meter's pairing mode and search for RIDESENSE device, please refer to the meter user manual.
Bluetooth pairing	Connecting to App	To enable the App's pairing mode and search for RIDESENSE device, please refer to the App user manual.
Power saving and sleep	The RIDESENSE goes into sleep mode without sensing any magnet motion in 20 minutes.	The system auto wakes up and is connected once a peddling frequency or speed magnet motion is detected in sleep mode. The device remains active (instead of entering the power saving and sleep mode) in alarm mode.
Power saving, sleep and wakeup	The RIDESENSE wakes up once peddling magnet	The RIDESENSE device is started and the

	or speed magnet motion has been detected (valid for peddling frequency magnet only)	connection resumed once peddling frequency magnet or speed magnet motion is detected by RIDESENSE.
Reset	Reset the device	Press and hold the RESET button for 12 seconds and wait for the red and yellow indicator to light up once respectively.
Low battery reminder	The alarm function starts and the red LED light flashes three times when power of the battery gets low. Replace the battery immediately.	Replace the battery immediately.
Enable handset alert device function	Enable the function by scanning the QRcode printed in the RIDESENSE label with the GIANT App or enter the barcode contained in the accessory label in App.	Please download your GIANT App at Google play (Android) or App store (iOS). Note: Please refer to the GIANT App manual for the shooting and scanning steps.
Magnet light indicators once started successfully	After the device has awoken and there is magnet motion detected in the first 20 peddling, an LED light indicator lights up to validate the magnet installation.	Yellow light: Peddling frequency magnet detection Red light: Speed magnet detection

Installation steps

To install the battery cover: B

Warning: Make sure edge of the battery cover is well placed before installing your RIDESENSE. Otherwise, the battery cover may fail to seal closely, the battery compartment spring may fail, or the waterproof function may get lost. (Please refer to installation steps given earlier.)
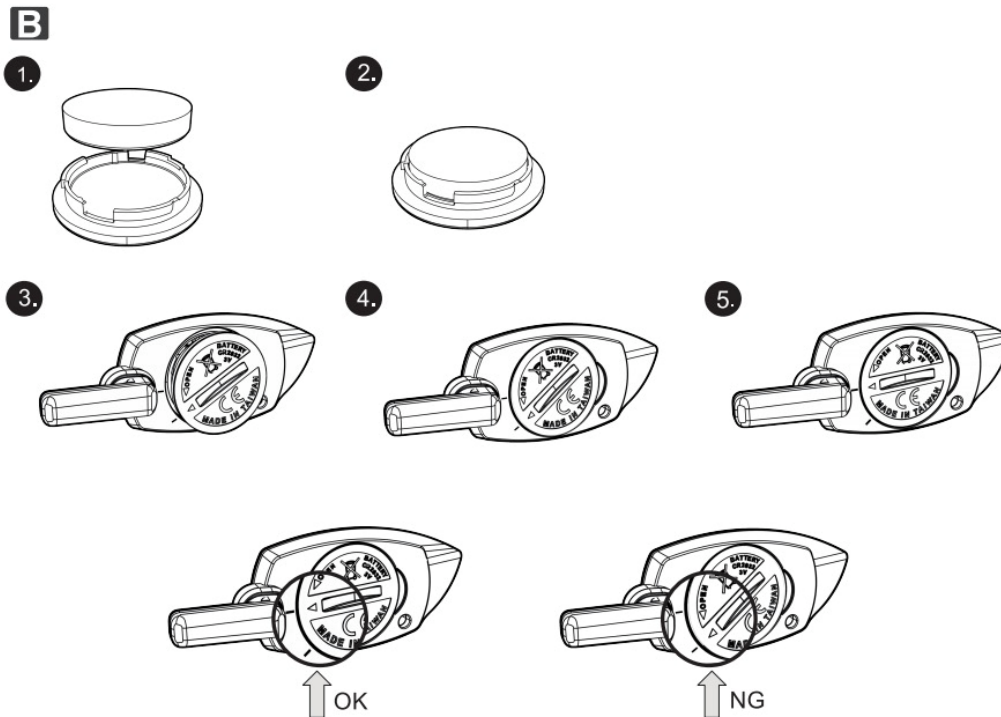

To install RIDESENSE: C

Remove the bike included seat stay plug (not included with standalone RIDESENSE product), insert the RIDESENSE antenna in the seat stay tube, attach and fasten the RIDESENSE device to the seat stay with one SHCS using a 2.5mm hex wrench at maximum locking torque of 0.4Nm.

Note: Please make sure the battery cover is well sealed for 100% waterproof.

Warning: Make sure the RIDESENSE is well locked before each and every bike ride or you may suffer function failure or even severe personal injury.
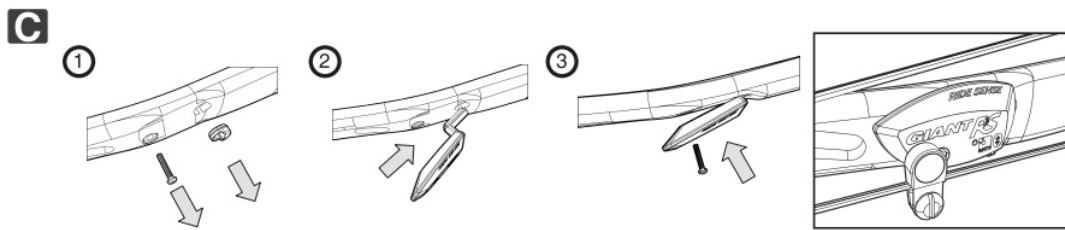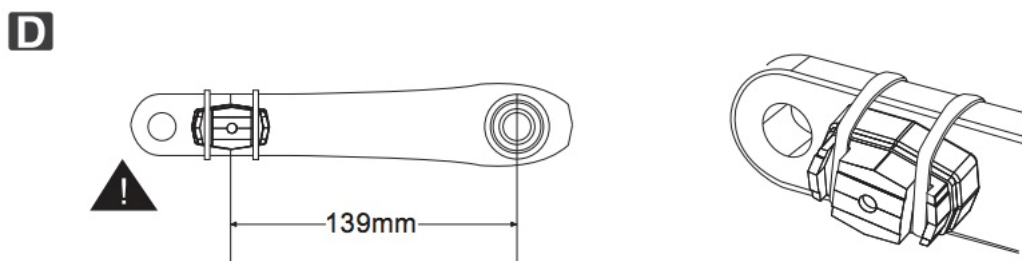
Note: Please fasten the PFSM to the crank with the included tie. Tear off the tape at back of the PFSM, attach and fix it at inside of the left crank 139mm away from center of the press fit with the included ties, rotate the crank to test starting the PFSM.

Note: Raise the PFSM with included pad to keep it within 7mm from the frame or motion of the PFSM may fail to be detected.

Installation the speed sensor magnet (SSM): E&F

Note: Keep the SSM and RIDESENSE 2~10mm away from each other. You may flip the SSM and install it to the back wheel spoke to ensure the proper gap between the two.
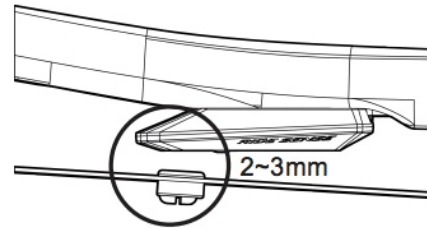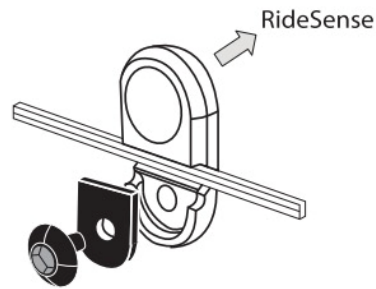
In case the SSM is too close to or interfering with the RIDESENSE, install them at location away from each other (ensure end of the device 2~3mm away from the edge of SSM). Otherwise, the SSM may hit the RIDESENSE and result in damage. See figure below for correct installation position.
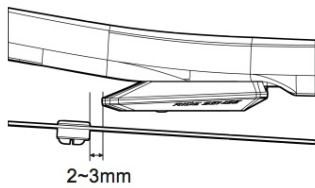

(Ensure end of the device 2~3mm away from the edge of SSM.)

Remove RIDESENSE: G

Remove the screw, push the device forward, compress and deform the silica gel before pulling it upward, remove it carefully without damaging the antenna compartment. Insert the seat stay plug in the fix opening for RIDESENSE after it was removed.

Warning: Pull RIDESENSE vertically upward from its installation location may damage the RIDESENSE or the frame and breach your warranty terms.
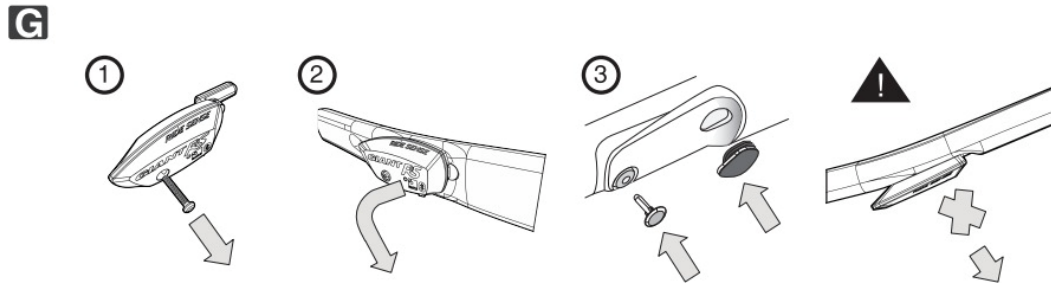
RIDESENSE maintenance

1. Replace battery

   Note: Check remaining power of your battery before riding your bike ride. Low battery may lead to RIDESENSE sensor error or pairing failure.

   Note: Wait 30 seconds for the RIDESENSE to reset after its battery was removed to ensure its successful operation after battery replacement.
   Note: Remove the battery from your product in case it will not be used for long time. This will prevent the sensor from damage by leak of battery electrolyte.

   Warning: Insert a battery in the battery compartment before locking the battery cover with screw. Make sure edge of the battery cover is well placed or the battery cover may fail to seal closely, the battery compartment spring may fail, or the waterproof function may get lost. (Please refer to installation steps given earlier.)

Reset RIDESENSE

Method 1: Remove the battery, wait 30 seconds before inserting it back, the RIDESENSE is now reset.

Method 2: Press and hold the RESET button for 12 seconds and wait for the red and yellow indicator to light up once respectively, the RIDESENSE is now reset.

Notes:

1. The sensor may be used in rainy day but not under water. DO NOT clean it with high-pressure water jet.
2. Please check distance between the sensor and its magnets regularly.
3. DO NOT clean the sensor with inferior chemical cleaners.
4. Be careful about your biking safety.

Warranty statement

1. GIANT shall warrant your RIDESENSE for 2 years after its purchase date. During this warranty period the GIANT authorized dealer shall offer comprehensive after service for damages under normal operation according to the user manual and determined to be caused by poor product quality.
2. If problem of your product persists after taking troubleshooting measures given in the user manual, please present your purchase receipt, complete set of RIDESENSE, and the meter to any GIANT dealer for inspection and warranty service.

Conditions that may void your product warranty:

Modifying your product or its accessories.

Using your product for purposes not intended for its design.

Damages caused by failure to use this product according to instructions given in this manual.

Additional costs derived from product failure.

Your warranty period or terms may vary with local regulations. The warranty provided does not affect your statutory rights under applicable legislation in force.

DGT statement

DO NOT change frequency, increase power, or modify designed features and functions of low power radio transmitter and receiver with type qualification without approval in advance. Use of low power radio transmitter and receiver should not interfere with aviation safety and legitimate communications. In case of any interference, stop using the device immediately and resume its use only after the interference has been eliminated. The said legitimate communications is any radio communication operation approved by the telecommunication regulations. This device must accept any interference by legitimate communications or industrial, scientific, and medical radio equipment.

FCC Regulations:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

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IC Regulations:

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

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CAN ICES-3(B)/NMB-3(B)

Troubleshooting

Please troubleshoot your product according to instructions given below. Please reset your RIDESENSE afterwards. If the problem persists, call the dealer from whom you have purchased your product or contact GIANT.

Symptom	Causes	Troubleshooting
ANT+ pairing failure	1. ANT+ device interference 2. Enter power saving and sleep mode	1. Make sure there is no active ANT transmitter in existence, e.g. speed/peddling frequency device. Press and hold the RESET button for 12 seconds and wait for the red and yellow indicator to light up once respectively to reset your RIDESENSE. 2. Move the peddling frequency magnet or speed magnet across the RIDESENSE to wake it up.
Bluetooth pairing failure	1. RIDESENSE is Bluetooth connected 2. Enter power saving and sleep mode	1. Check whether the RIDESENSE is busy when connected to other App/devices. If it remains busy, you may disconnect it by resetting your RIDESENSE. Press and hold the RESET button for 12 seconds and wait for the red and yellow indicator to light up once respectively to reset your RIDESENSE. 2. Move the peddling frequency magnet or speed

		magnet across the RIDESENSE to wake it up.
RIDESENSE alarm function initiation failure	1. Invalid alarm code entry	1. Check whether the alarm QRcode and bar code contained in the accessory label is scanned and entered correctly.
	2. Enter power saving and sleep mode	2. Move the peddling frequency magnet or speed magnet across the RIDESENSE to wake it up.
Connection to RIDESENSE failure	1. Low battery power	Make sure there is adequate battery power left.
	2. Enter power saving and sleep mode	Move the peddling frequency magnet or speed magnet across the RIDESENSE to wake it up.
	3. Device pairing failed	Pair the devices.
Lack of speed or peddling frequency information	1. Poor magnet sensing	Make sure the magnet is installed within the sensing area.
	2. Enter power saving and sleep mode	Move the peddling frequency magnet or speed magnet across the RIDESENSE to wake it up.
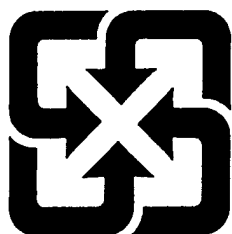
Please recycle disposed battery.

Mercury contents of this product comply with regulations 01890-AR4 of the EPA.

Note: Please remove the battery from your product if it will not be used for a long

time. This will prevent the sensor from being damage by the leaking of battery electrolyte.