

Stack Sensor



User's Manual



TheStack



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Introduction

Thank you for your purchase of the Stack Sensor. This device attaches to the butt of TheStack Baseball Bat to measure swing speed and other important variables when there is not any ball contact. This device can be connected to your smart phone using **Bluetooth®**.

Safety Precautions (Please read)

Please read these safety precautions before use to ensure proper usage. The precautions shown here will assist in proper usage and prevent harm or damage to the user and those in proximity. We kindly ask you to observe this important safety-related content.

Symbols Used in This Manual



This symbol indicates a warning or caution.



This symbol indicates an action that must NOT be performed (prohibited action).



This symbol indicates an action that must be performed.



Warning

-  Do not use this device for practicing in places such as public places whereby the swinging apparatus or ball can be hazardous.
-  When using this device, pay sufficient attention to the surrounding conditions and check the area around you to confirm that there are no other people or objects in the swing trajectory.
-  Individuals with medical devices such as a pacemaker should contact the medical device manufacturer or their physician beforehand to confirm that their medical device will not be affected by radio waves.
-  Never attempt to disassemble or modify this device. (Doing so could result in an accident or malfunction such as fire, injury or electric shock.)
-  Turn off the power and remove the batteries in areas where use of this device is prohibited, such as in airplanes or on boats. (Failure to do so could result in other electronic equipment being affected.)
-  Immediately stop use of this device in the event it is damaged or emits smoke or an abnormal odor. (Failure to do so could result in fire, electric shock, or injury.)



Caution

- ⊘ Do not use in environments where water could permeate the device, such as in rain. (Doing so could cause the device to malfunction as it is not waterproof. Also, be aware that any malfunctions caused by water permeation are not covered by warranty.)
- ⊘ This device is a precision instrument. As such, do not store it in the following locations. (Doing so could result in discoloration, deformation, or malfunction.)
 - Locations subject to high temperatures, such as those subject to direct sunlight or near heating equipment
 - On vehicle dashboards or in vehicles with windows closed in hot weather
 - Locations subject to high levels of humidity or dust
- ⊘ Do not drop the device or subject it to high impact forces. (Doing so could result in damage or malfunction.)
- ⊘ Do not place heavy objects on the device or sit/stand on it. (Doing so could result in injury, damage, or malfunction.)
- ⊘ Do not apply pressure to this device while stowed inside caddy bags or other types of bags. (Doing so could result in housing or LCD damage or malfunction.)
- ⓘ When not using the device for long periods of time, store it after first removing the batteries. (Failure to do so could result in battery fluid leakage, which may cause malfunction.)
- ⊘ Do not attempt to operate the buttons using objects such as golf clubs. (Doing so could result in damage or malfunction.)
- ⊘ Using this device near other radio devices, televisions, radios, or computers could cause this device or those other devices to be affected.
- ⊘ **Using this device near equipment with drive units such as automatic doors, auto tee-up systems, air conditioners, or circulators could result in malfunctions.**
- ⊘ Do not grip the sensor part of this device with your hands or bring reflective objects such as metals near it as doing so could cause the sensor to malfunction.

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.

CAUTION: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: 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.

Main Features

- Baseball Swing
 - Screws in securely to the butt of TheStack Baseball Bat.
 - Swing speed and other variables can be transmitted to TheStack App instantaneously.
 - The recorded units of measurement can be switched between imperial (“MPH”, “feet”, and “yards”) and metric (“KPH”, “MPS”, and “meters”) via the App
- The Stack System Speed Training
 - Automatically connects to TheStack Baseball App
 - Swing speed is displayed as the top number on the display.

Description of Contents

(1) Stack Sensor•••1

*Batteries are included.

(1)



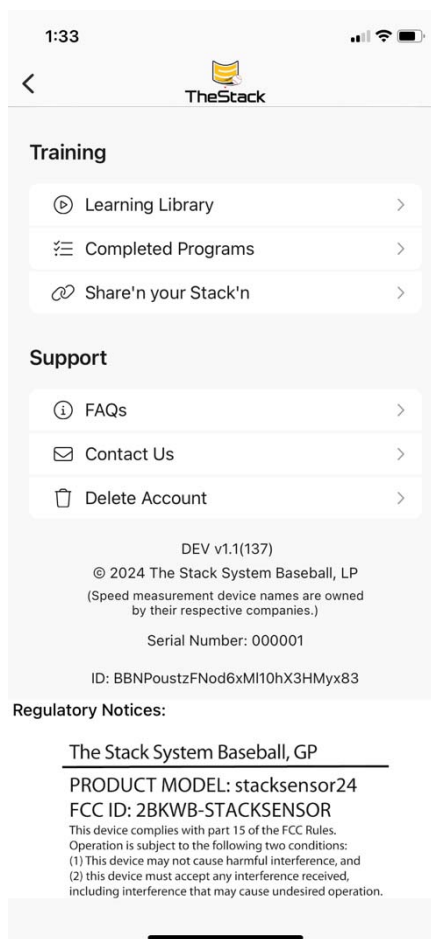
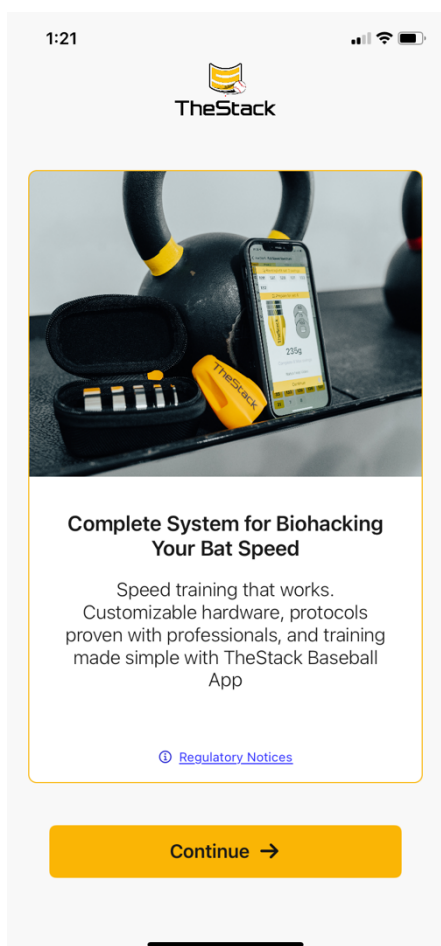
Attaching to TheStack Bat

TheStack Baseball Bat is equipped with an integrated threaded fastener at the butt of the bat to accommodate the Stack Sensor. To attach the Sensor to, position it in the designated slot and tighten it until secure. To remove the Sensor, unscrew by turning counterclockwise.



Regulatory Notices in the App

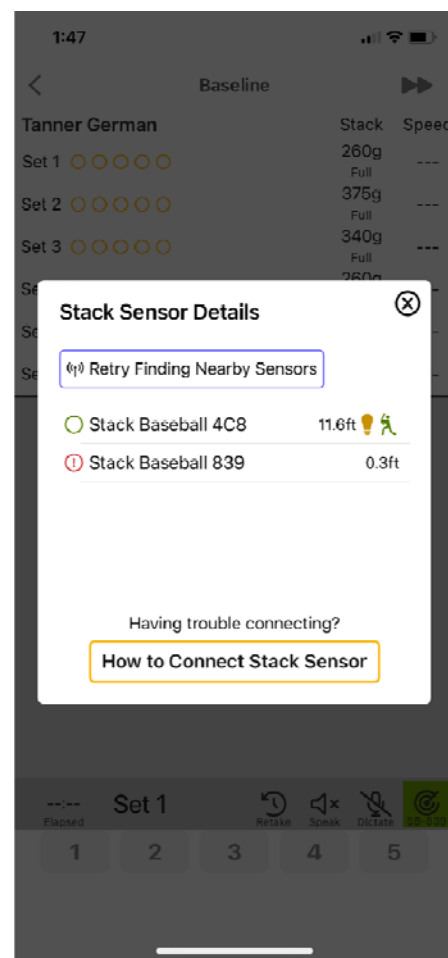
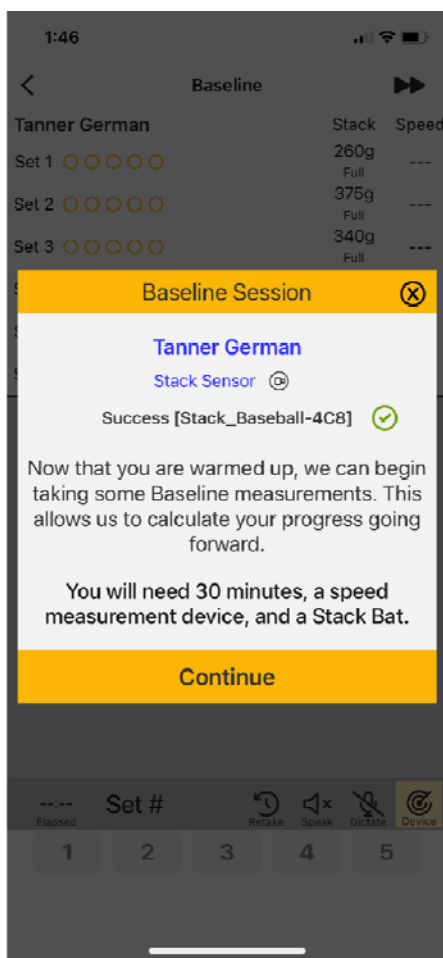
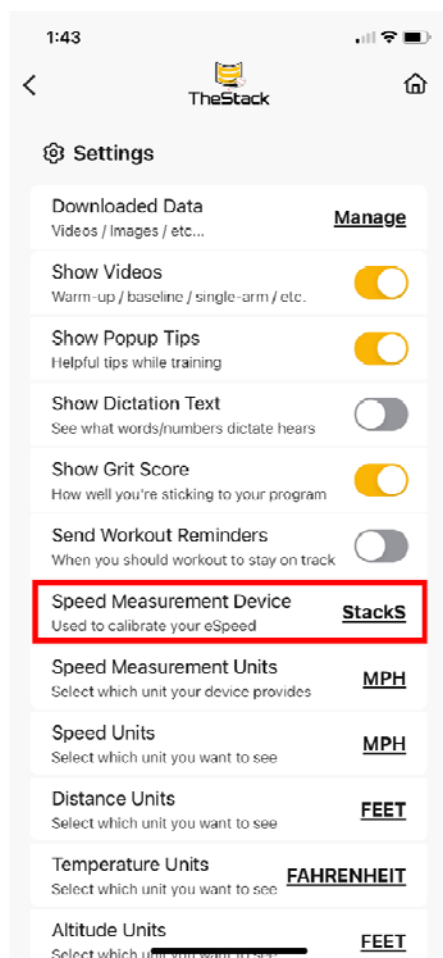
The Stack Sensor is designed to operate in conjunction with the Stack Baseball App on your smart phone. Prior to signing in, the Sensor's e-label can be accessed from the initial page of the onboarding process via the 'Regulatory Notices' button, shown below. After signing in, the e-label can also be accessed from bottom of the Menu.



Using with The Stack System

The Stack Sensor uses **connectionless** Bluetooth technology. There is no pairing with your phone/tablet required, and the Sensor does not need to be manually powered on to connect. Just open TheStack App and start your session. Unlike other Bluetooth connections you may be used to, you will not need to go to your Settings App to pair.

- (1) Launch TheStack Baseball App.
- (2) Access Settings from the Menu and select Stack Sensor.
- (3) Start your training session. The Bluetooth connection between the Sensor and the App will be shown on the screen prior to starting your workout. Toggle between multiple sensors using the 'Device' button at the bottom right of your screen.



Measuring

Relevant variables are measured by the sensor at the appropriate times during the swing, and correspondingly transmitted to the App.

(1) Attaching to TheStack Bat

* See “Attaching to TheStack” on page 4

(2) Connect to TheStack Baseball App

* See “Using With The Stack System” on page 6

(3) Swinging

- After the swing, results will be shown on your smart phone screen.

Troubleshooting

● TheStack App is not connecting via Bluetooth to the Stack Sensor

- Please ensure that Bluetooth is enabled for TheStack Baseball App in your device Settings.
- If Bluetooth is enabled, but swing speeds are not being sent to TheStack app, then force close TheStack app, and repeat the connection steps (page 6).

● Measurements seem incorrect

- The swing speeds displayed by this device are those measured using our company’s unique criteria. For that reason, measurements may differ from those displayed by measurement devices from other manufacturers.
- Correct clubhead speeds may not be displayed correctly if attached to a different bat.

Specifications

- Microwave sensor oscillation frequency: 24 GHz (K band) / Transmission output: 8 mW or less
- Possible measurement range: Swing speed: 25 mph - 200 mph
- Power: Power supply voltage = 3v / Battery life: Greater than 1 year
- Communications system: Bluetooth Ver. 5.0
- Used frequency range: 2.402GHz-2.480GHz
- Operating temperature range: 0°C - 40°C / 32°F - 100°F (no condensation)
- Device external dimensions: 28 mm × 28 mm × 10 mm / 1.0" × 1.0" × 0.5" (excludes protruding sections)
- Weight: 9 g (includes batteries)

Warranty and After-Sales Service

In the event the device stops operating normally, stop use and contact the Inquiry Desk listed below.

Inquiry Desk (North America)
The Stack System Baseball, G.P.,
850 W Lincoln St., Phoenix, AZ 85007, U.S.A
EMAIL : info@thestackbaseball.com

- If a malfunction occurs over the course of normal use during the warranty period stated in the warranty, we will repair the product free-of-charge in accordance with the content of this manual.
- If repairs are necessary during the warranty period, attach the warranty to the product and request the retailer to perform repairs.
- Note that charges will be applied for repairs performed for the following reasons, even during the warranty period.
 - (1) Malfunctions or damage that occur due to fire, earthquakes, wind or flood damage, lightning, other natural hazards, or abnormal voltages
 - (2) Malfunctions or damage that occur due to strong impacts applied after purchase when the product is moved or dropped, etc.
 - (3) Malfunctions or damage for which the user is deemed to be at fault, such as improper repair or modification
 - (4) Malfunctions or damage caused by the product getting wet or being left in extreme environments (such as high temperatures due to direct sunlight or extremely low temperatures)
 - (5) Changes in appearance, such as due to being scratched during use
 - (6) Replacement of consumables or accessories
 - (7) Malfunctions or damage that occur due to battery fluid leakage
 - (8) Malfunctions or damage deemed to have resulted from issues caused by the instructions in this user's manual not being followed
 - (9) If the warranty is not presented or required information (date of purchase, retailer name, etc.) is not filled in

* Issues whereby the above mentioned conditions apply , as well as the scope of warranty when they do not apply, will be handled at our discretion.
- Please store this warranty in a safe location as it cannot be reissued.

* This warranty does not limit the legal rights of the customer. Upon expiration of the warranty period, please direct any questions regarding repairs to the retailer from which the product was purchased or to the Inquiry Desk listed above.

TheStack Sensor Warranty

* Customer	Name: Address: (Postal code:) Telephone number:	
	* Date of purchase DD/MM/YYYY	Warranty period 1 year from date of purchase
	Serial No.:	
	Information for customers: ● This warranty provides the guidelines for warranty review as stated in this manual. Please read this manual carefully and ensure that all items have been properly completed. ● Before requesting repairs, first take time to confirm that the device troubleshooting methods have been followed correctly.	
	* Retailer name/address/telephone number	

*** This warranty is invalid if there is no information entered in the asterisk (*) fields. When taking possession of the warranty, please check that the date of purchase, retailer name, address, and telephone number have been filled in. Immediately contact the retailer from which this device was purchased if any omissions are found.**

The Stack System Baseball, G.P.,
 850 W Lincoln St., Phoenix, AZ 85007, U.S.A