

WARNINGS & CAUTIONS

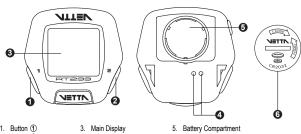
Vetta's RT233 is an upgraded version of RT33 cycle computer. It is recommended that this product to be installed by a qualified bicycle retailer. Failure to read the instructions and/ or improper installation of this device may void the warranty. If you have any doubts about the installation or the operations, contact your local bicycle retailer for

(FUNCTIONS / FEATURES

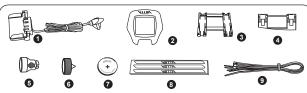
Standard Harness	Auto Awake & Start-up
Replaceable Front Cover	Current Speed
2 Screen Display Windows	Cumulative Odometer
EZ Tire Set	Trip Distance
Service Timer	12/24 Hour Clock

ILLUSTRATIONS

HEAD UNIT



- 2. Button (2)
- Contact Pins
- Battery Cap
- COMPONENTS



- Wired Speed Sensor with Mounting Bracket
- Extra Clear Front Cover
- Bracket Rubber Pad
- Bracket Rubber Pad (Riser Handlebar)
- Bladed Spoke Magnet
- Head Unit Battery (CR2032, 3-Volt)
- Wire Securing Tape

BUTTON FUNCTIONS

Button (2): Lower Screen Modes

Press & hold for 2 seconds

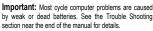
Button ① & ② when the lowest screen is in the CLK Mode: NOM Setup Button (1)& (2) when the lowest screen is in the DST Mode: Reset Ride Data

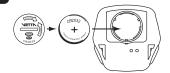


BATTERY INSTALLATION

HEAD UNIT

The Head Unit uses a CR2032 3-Volt Lithium button cell Battery Run Time (1 hour training / day): Approx. 12 months





- emove the battery cap from the bottom of the Head Unit using a coin.
- Install a new battery as shown with the positive (+) side facing out. Do not touch or bend any of the battery contacts during installation.

 Screw the battery cap firmly into place making sure the O-ring seal does not get pinched or distorted

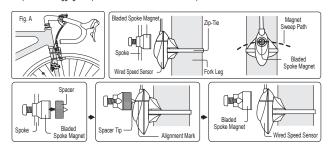
Caution: To avoid damage to the battery cap, do not over tighten.

INSTALLATION

Important: Do not use Zip-Ties, use the tapes provided with the package to hold wires to the frame, fork, bars or stem to avoid damaging or cutting the wires accidentally. Make sure excess wire is taped down or wrapped around brake cable housing to secure it.

WIRED SPEED SENSOR & MAGNET

Attach the Wired Speed Sensor with the Zip-Ties supplied and tighten the Bladed Spoke Magnet to the bicycle. Mounting the sensor as high up as on the fork leg (see Fig. A). Adjust the sensor and magnet spacing with the Spacer. Remove the Spacer after snugging the Zip-Tie down to hold the sensor in its final position.

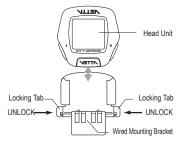


MOUNTING BRACKET & HEAD UNIT

Attach Mounting Bracket & Bracket Rubber Pad to the handlebar on the "Sensor side" using the Zip-Ties provide. Adjust its position to your liking and tighten the Zip-Ties. Note: Be sure to leave enough slack in the wire to accommodate the nent of fork and handlebars. (See Fig. A)

Slide the Head Unit into the Wired Mounting Bracket as shown until it clicks into position Remove by pressing in the two locking tabs as

Secure wire with tape supplied and by winding it around cables



INSTALLATION TESTS

Once installation is complete, the computer should be tested to make sure it is working properly

Pick up the front of the bicycle and spin the front wheel. The LCD should display a speed-reading within 2-3 seconds.

If there is no speed-reading, check the alignment and spacing between the magnet and sensor, Make sure that the Head Unit is completely locked into position. If these checks do not solve the problem, talk to an Authorized Vetta's Retailer or connect to www.vetta.com

Important: Make sure the magnet locking screw and all Zip-Ties are properly tightened.

SETUP & PROGRAMMING

In Setup, Button (1) is used to select or set a value and to advance to the next digit or Mode. Button (2) is used to switch

Initial Setup

RT233 is programmed to enter the Initial Setup Mode after new battery replacement.

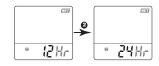
In the Initial Setup, riders can program the Basic Settings for the computer, the content of settings are same as NOM Setup for Basic Setting

NOM Setup

After completed the Initial Setup, riders can change any values or correct any errors by re-entering the NOM Setup. To enter the NOM Setup Mode press & hold ① &② simultaneously when the lowest screen is in the CLK Mode

Important: Computer CANNOT exit during the Setup Mode until all the Basic Settings are finished.

12/24 CLOCK

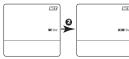


Press ② to toggle between flashing 12 and 24 hour formats. Press① to select your desired format (without PM icon implies AM in 12 hour format) and advance to Time setting.

Press ②to advance hour digits to correct hour (hold button for rapid advance). Press ①to select and advance to minute setting. Press 2 to advance minute digits to correct minute. Press 1 to select and advance to the next Setup Mode



SPEED/ DISTANCE UNIT



Press② to toggle between flashing M/hr and KM/hr. Press① to select and advance to the next Setup Mode.

Note: Speed/Distance Unit cannot be changed if there have been ride

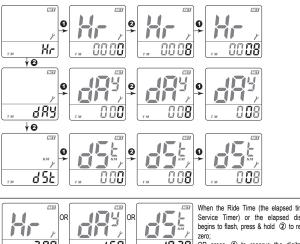
data on screens. If you want to change the Unit, please make sure you had cleared all ride data before entering the NOM Setup Mode. This restriction does not apply to the Initial Setup after the 1st time battery installation, new battery replacement or All Clear Total Reset.

SERVICE TIMER

Service Timer could be programmed with a selected number of ride time (hours or days) or distance as the interval for servicing the bicycle or any component on it, such as a front or rear shock. The default settings "0000" means the Service Timer is turned off.

Press (2) to scroll flashing hr (hour), day or dst (distance) as the Service Timer unit, Press (1) to select the desired Service

When the desired Service Timer unit has been chosen, press ② to scroll the flashing digit to the desired number. Press ① to select this number and advance to next digit. Repeat this procedure until all digits are selected. Press① to advance the next Setup Mode. (Maximum settings: hour / day / distance = 1999 / 9999)





When the Ride Time (the elapsed time for Service Timer) or the elapsed distance begins to flash, press & hold (2) to reset to

OR press ① to reserve the digits, and advance to the next Setup Mode

In the Initial Setup the elapsed time [distance] for Service Timer doesn't exist.

WHEEL/ TIRE SIZE

Press ② to toggle between flashing circ (circumference) and tire (tire type). Press ① to select the desired and advance

If pre-set to *circ* (see Table of Tire Size Vs Circ), press ② to scroll the flashing digit to the desired number. Press ① to

select this number and advance to next digit. Repeat this procedure until all four digits are selected.

If pre-set to tire, press ② to scroll the flashing 700c, 650c, 27in, 26in, 24in, 20in or 16in. Press ③ to select and advance to next setting to complete the Tire Size. Again, press ② to scroll and press ① to finalize the Tire Size and advance to the next Setup Mode



TIRE SIZE	CIRC	TIRE SIZE	CIRC	TIRE SIZE	CIRC	TIRE SIZE	CIRC
700c x 38mm	2180	700c x 20mm	2074	26" x 2.25"	2115	26" x 1.0"	1913
700c x 35mm	2168	700c Tubular	2130	26" x 2.1"	2095	24" x 1.9/1.95"	1916
700c x 32mm	2155	650c x 23mm	1990	26" x 2.0"	2074	20" x 1.25"	1618
700c x 30mm	2145	650c x 20mm	1945	26" x 1.9/1.95"	2055	16" x 2.0"	1253
700c x 28mm	2136	27" x 1.25"	2161	26" x 1.75"	2035	16" x 1.95"	1257
700c x 25mm	2124	27" x 1.125"	2155	26" x 1.5"	1985	16" x 1.5"	1206
700c x 23mm	2105	26" x 2.3"	2135	26" x 1.25"	1953		

ODOMETER

Press ② to scroll the flashing digit to the desired number. Press ① to select this number and advance to next digit. Repeat this procedure until all five digits are selected. Press ①to advance the next Setup Mode. (Maximum setting: 99999)



FUNCTIONS

Press ② to scroll the lower screen Modes

To enter the NOM Setup Mode, press & hold ① & ② simultaneously for 2 seconds when the lowest screen is in the CLK Mode, To reset Ride Data to zero, press & hold ① and ② simultaneously for 2 seconds when the lowest screen is in the DST Mode.



Speed is shown at all times on upper display. It is accurate to 0.1 M/hr or KM/hr and the maximum reading is 139.9 M/hr or 199.9 KM/hr.



DST displays trip distance of current ride to a maximum of 999.9 miles or kilometers. It is accurate to 0.1 Mile or ΚM



Note: When the Trip Distance miles "E" exceeds 999.9 [kilometers], symbol "E" appears indicating that further measurement is impossible.



The odometer displays distance to 99999 Miles or Kilometers. It is accurate to 1.0 Mile or KM.

CLK



Time is displayed in user-selected 12 or 24 hour formats

OTHER FEATURES

SLEEP MODE



Computer enters Sleep Mode after 5 minutes without input from any buttons or wheel, and displays the clock only. Computer exits Sleep Mode and returns to the screen last displayed when any button is pressed or the wheel turns.

SERVICE TIMER()



Blinking "" alerts rider the Service Time is reached.

TROUBLE SHOOTING

· Current speed-reading is erratic or does not appear

Check the alignment of the bladed spoke magnet and sensor, and the distance between the two components. Realign the magnet and sensor with the spacer.

OR Inspect the wiring for any breaks or kinks. Replace Mounting Bracket and sensor as needed.

- Incorrect data appears on screen during operation
- Accuracy of the Setup data may be a problem (wheel size setting, etc.).
- Data display is extremely slow.

Computer LCD screen operates the best under the following temperature range:

Operating range is: 0 °C to 50 °C or 32 °F to 122 °F.

Screen is dark and display erratic characters.

Do not leave the computer in direct sunlight for extended periods of time. Move the computer into the shade until the screen recovers

Noted: Data will not be affected.

Screen reading is weak or fading.
 Symptom of a weak battery. Replace the battery.

- Screen readings are erratic and read too high or too low.
- Symptom of a weak battery. Replace the battery
- · Screen "frozen", no response to buttons.
- Symptom of a weak battery. Replace the battery
- No display whatsoever
- Battery is completely dead, or not installed. Replace or install the battery

WARRANTY POLICY

ACUMEN INC. WARRANTS ALL VETTA (The Company) PRODUCTS AGAINST MANUFACTURER DEFECTS FOR A PERIOD OF 3 YEARS. Subject to the following limitations, terms and conditions, components will be free of manufacturing defects in materials and workmanship. The 3 year limited warranty is conditioned upon the components being used and operated in normal riding conditions. This warranty does not cover normal wear and tear (i.e. battery replacement, broken wire), rider abuse, acts of God, improper installation or product alteration.

This warranty is void if the components were not purchased (new) from or through an authorized VETTA retailer or dealer. Examples of unauthorized dealers are online auction sites or online retailers.

ACUMEN INC. at its sole discretion will repair or replace items at its own cost. Users are responsible for all freight and shipping charges, when returning items for warranty service.

ACUMEN INC. will pay the freight when returning serviced items, via USPS or UPS to consumers or dealers, once the item(s) has been repaired or replaced.

REQUIREMENTS FOR WARRANTY SERVICING

- Prior to shipping an item back, you must first obtain a Return Authorization Number (s) (RA#). Each item being returned must have an individual RA#.
- To obtain an RA #, you must either contact the retailer where the product was originally purchased from, or contact **VETTA** directly at customer service @ vetta.com. For trouble shooting purposes, we request that the complete unit with packaging be returned to ACUMEN INC.
- unless otherwise stated by VETTA representative

ITEMS TO BE INCLUDED IN RETURNS

- The defective product(s)
- A letter clearly stating the problem(s) with the returned item(s)
- Copy of the original sales receipt showing proof of purchase date.

 The Company is not responsible for loss or additional damages while in transit to **ACUMEN INC**
- Clearly mark the RA# on the outside of the return packaging. All items without an RA # will be refused and returned to the return address on the package.

The Company shall not be held responsible for replacing items with new items for greater than the amount of the original item purchase price. This limited warranty does provide the original owner with certain legal rights and recourse. The original owner may possess other rights or recourse, depending on the state or country. Please check the web to help answer any question and service manual.

ACUMEN INC CUSTOMER SERVICE CENTERS

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