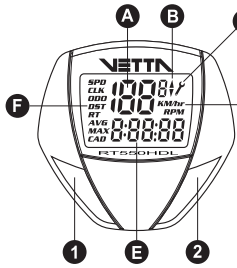


WARNINGS & CAUTIONS

- Vetta cycle computers are sophisticated electronic instruments, Vetta recommends that this product be installed only by a qualified bicycle retailer. Failure to read these instructions and/or improper installation of this device may void the warranty. **If in doubt about any aspect of the installation or operation of this product, consult your local bicycle retailer for clarification.**
- The head unit is water resistant and sealed to withstand wet weather conditions. Do not deliberately place it in water.
- Avoid leaving the head unit to be exposed to extremely hot or cold weather conditions.
- Vetta encourages you to ride safely. Wear a helmet every time you ride, use front and rear lights at night, and always keep your eyes on the road ahead of you.

HEAD UNIT: FRONT

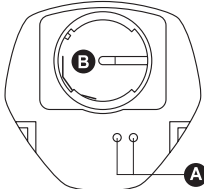


- A Upper Display (Speed)  
B Speed Comparator Icon  
C Service Timer Icon  
D Speed/Distance Units  
E Lower Display  
F Function Icons

- 1 Set/Select/NiteLite Button (Left)  
2 Mode/Advance Button (Right)

Tips: Press Button #1 momentarily to turn on the night light for 3 seconds.

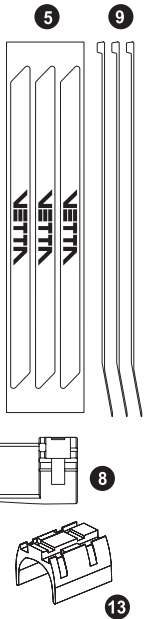
HEAD UNIT: REAR



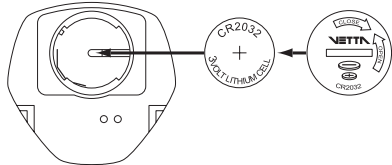
- A Contact Points (RT550HDL)  
B Battery Compartment  
C Battery Cover

COMPONENT ILLUSTRATIONS

- Head Unit Battery (CR2032, 3-Volt)
- WL Wireless Speed Transmitter Battery (A23, 12-Volt) (RT880L)
- WL Wireless Speed Transmitter (RT880L)
- Bladed Spoke Magnet
- Wire Securing Tape (RT550HDL)
- Wired Speed Sensor (RT550HDL)
- Bracket Rubber Pad
- Bracket Rubber Pad (Riser Handlebar)
- Zip-Ties
- Wireless Mounting Bracket (RT880L)
- Wired Mounting Bracket (with Heavy Duty Harness) (RT550HDL)
- Spacer
- Transmitter Mounting Shim (RT880L)



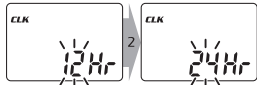
BATTERY INSTALLATION



INITIAL SETUP

Both RT550HDL and RT880L are programmed to enter the Initial Setup mode after battery installation. In Set-Up, Button #1 is used to select or set a value and to advance to the next digit or screen mode. Button #2 is used to switch between settings and to increase values.

SET 12/24 CLOCK



Press Button #2 to switch between flashing "12" and "24" hour formats. Press Button #1 to select your desired format (without PM icon implies AM in 12 hour format) and advance to time setting.

SET TIME



To set the time in CLK Mode: Press button #2 to advance hour digits to correct hour (hold button for rapid advance). Press Button #1 to select and advance to minutes setting. Press Button #2 to advance minute digits and press Button #1 to select.

SET SERVICE TIMER

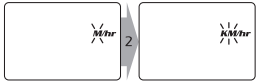


**Service Timer** could be programmed with a selected number of ride time hours as the interval for servicing the bicycle or any component on it, such as a front or rear shock.

**Accumulated Ride Time** is displayed on the upper line and Service Time is displayed on the lower line. To set the Service Time, press Button #2 to advance hour digits. (The hour digits appear on the lower level with the right hand digit flashing.) Press Button #1 to select and advance to next digit. (Maximum hour setting = 1999 hours)

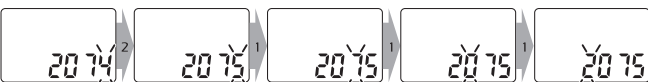
The default setting for the Service Timer is "0000" hours, which means the Service Timer is turned off.

SET SPEED/DISTANCE SCALE



Press Button #2 to switch between "M/hr" and "KM/hr" and Button #1 to select desired units and advance. (To change units in SPD/ODO Mode, press and hold Buttons #1 and #2 simultaneously for 2 seconds until "M/hr" begins to flash).

SET WHEEL SIZE



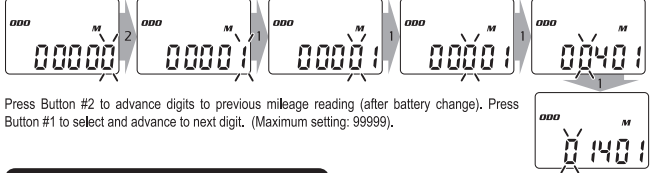
Default wheel circumference setting is 2074mm. Choose correct wheel circumference figure from Wheel Reference Chart. Press Button #2 to advance digits as needed and Button #1 to select and advance. (Range: 0050-2999mm).

| TIRE SIZE    | CIRC | TIRE SIZE       | CIRC | TIRE SIZE       | CIRC |
|--------------|------|-----------------|------|-----------------|------|
| 700c x 38mm  | 2180 | 650c x 23mm     | 1990 | 26" x 1.75"     | 2035 |
| 700c x 35mm  | 2168 | 650c x 20mm     | 1945 | 26" x 1.5"      | 1985 |
| 700c x 32mm  | 2155 | 27" x 1-1/4"    | 2161 | 26" x 1.25"     | 1953 |
| 700c x 30mm  | 2145 | 27" x 1-1/8"    | 2155 | 26" x 1.0"      | 1913 |
| 700c x 28mm  | 2136 | 26" x 2.3"      | 2135 | 24" x 1.9/1.95" | 1916 |
| 700c x 25mm  | 2124 | 26" x 2.25"     | 2115 | 20" x 1-1/4"    | 1818 |
| 700c x 23mm  | 2105 | 26" x 2.1"      | 2095 | 16" x 2.0"      | 1253 |
| 700c x 20mm  | 2074 | 26" x 2.0"      | 2074 | 16" x 1.95"     | 1257 |
| 700c Tubular | 2130 | 26" x 1.9/1.95" | 2055 | 16" x 1.5"      | 1206 |

If your wheel size is not on the chart, or if you want a more precise calibration, wheel circumference may be calculated as follows:

Mark the tire and a spot on the floor. Roll the wheel forward one complete revolution until the tire mark touches the floor again and mark that spot. Measure the distance between the marks on the floor in millimeters and enter the result into the computer. (1 inch = 25.4mm)

SET ODOMETER



Press Button #2 to advance digits to previous mileage reading (after battery change). Press Button #1 to select and advance to next digit. (Maximum setting: 99999).

SET SMART LITE



**Smart Lite** will turn on the night light for 3 seconds between pre-set intervals when any button is pressed. Press Button #2 to select "ON" or "OFF". When Smart Lite is set to "ON", press Button #2 to advance the hour digits, press Button #1 to select and advance. When Smart Lite is set to "OFF", press Button #1 to advance the next setting. (Range of "From": 1:00 PM to 11:00 PM; Range of "To": 1: 00 AM to 11: 00 AM)

SET AUTO START



**When Auto Start is On:** The computer will wake-up from Sleep Mode as soon as it receives input signal from the wheel. **When Auto Start is Off:** To conserve battery burn time, the computer will only wake up when any button is pressed. Press Button #2 to select flashing ON or OFF. Press Button #1 to select and exit the set-up mode and enter SPD/CLK Mode.

PRIMARY FUNCTIONS

SPD



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.

CLK



Time is displayed in user-selected 12 or 24 hour formats. (To change the CLK Format, Time, Service Time Interval, SmartLite Interval or Auto Start ON/OFF (RT880L), press and hold Buttons #1 and #2 simultaneously for 2 seconds in the SPD/CLK Mode until "12/24" hour format digits flash).

ODO



The odometer displays distance to 99999 Miles or Kilometers (1.0 mile/km). User selectable ODO setting in Setup mode. (To change Units and Wheel Size in SPD/ODO Mode, press and hold Buttons #1 and #2 simultaneously for 2 seconds until "M/hr" begins to flash).

DST



Displays trip distance of current ride to a maximum of 999.9 miles or kilometers (0.1 mile/km). To reset trip distance DST (RT, MAX & AVG SPD) to zero in normal operation, hold both buttons simultaneously for two seconds in SPD/DST Mode.

RT



Displays Actual, Cumulative Ride Time to 9:59:59. Reset to zero manually by pressing and holding Buttons #1 and #2 simultaneously for two seconds in the SPD/DST Mode.

AVG



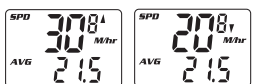
Average Speed is displayed in the SPD/AVG Mode and reads to within 0.1 miles or kilometers per hour. Reset to zero manually by pressing and holding Buttons #1 and #2 simultaneously for two seconds in the SPD/DST Mode.

MAX



Maximum Speed is displayed in the SPD/MAX Mode and reads to within 0.1 miles or kilometers per hour. Reset to zero manually by pressing and holding Buttons #1 and #2 simultaneously for two seconds in the SPD/DST Mode.

Speed Comparator



Speed Comparator: Arrow symbols indicate if current speed is slower ▼ or faster ▲ than current average speed.

Service Time



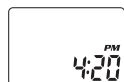
Blinking wrench icon alerts rider the Service Time is reached. To view or reset Accumulated Ride Time and Service Time, press and hold Buttons #1 and #2 for 2 seconds in the SPD/CLK Mode.



To reset Accumulated Ride Time to "0", hold Button #2 when upper digits are flashing during Setup.

SPECIAL FEATURES

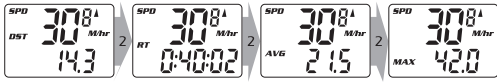
SLEEP MODE



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\* ("except RT880L's " Auto Start" is Off station).

FREEZE FRAME MEMORY

Rider can freeze Distance, Ride Time, Average Speed and Maximum Speed readings at any time by pressing Button #1 for two seconds while in the SPD/DST or SPD/RT Modes. Display flashes to indicate it has been frozen. Saved data can be scrolled and reviewed by pressing Button #2. Press Button #1 to return to DST or RT Modes.

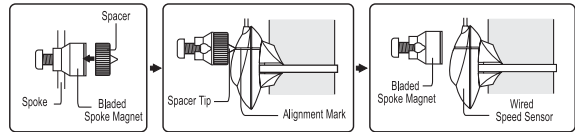
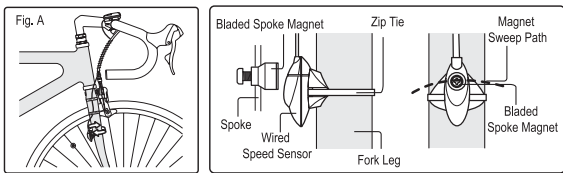


ALL CLEAR RESET

**All Clear Reset:** Remove battery and reinstall. When you remove the battery, all data and all time and odometer settings will be cleared. When battery is reinstalled, computer will automatically enter the Setup program.

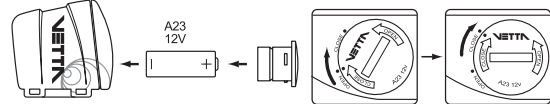
INSTALLATION PROCEDURES

WIRED SPEED SENSOR & MAGNET

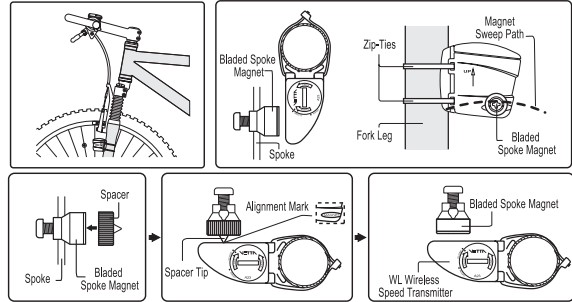


Attach the Wired Speed Sensor with the Zip-Ties supplied and tighten the Bladed Spoke Magnet to the bicycle. Adjust the sensor and magnet spacing with the Spacer. Remove the Spacer after snugging the Zip-Tie down to hold the sensor in its final position. (See Figures above)

WL WIRELESS SPEED TRANSMITTER & MAGNET

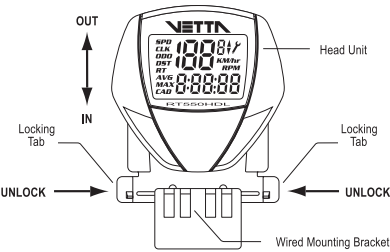


WL Wireless Speed Transmitter uses an A23 12V battery. Install the battery as shown: remove cap, install battery with positive (+) side up, replace battery cap.



Attach the WL Wireless Speed Transmitter with the Zip-Ties supplied and tighten the Bladed Spoke Magnet to the bicycle. Adjust the transmitter and magnet spacing with the spacer. Remove the Spacer after snugging the Zip-Ties down to hold the transmitter in its final position. (See Figures above)

MOUNTING BRACKET & HEAD UNIT



Attach Mounting Bracket. **Note:** Be sure to leave enough slack in the wire to accommodate the movement of fork and handlebars. Tighten Mounting Bracket as needed. (See fig. "A") Slide Head Unit into bracket as shown (left) until it clicks into position. Remove by pressing in the two locking tabs as shown. 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.

- Step 1:** Advance the computer to the SPD Mode using Button #2.  
**Step 2:** Pick up the front of the bicycle and spin the front wheel or ride the bicycle a short distance. The computer should display a speed reading after a few seconds.

If there is no speed reading, check the alignment and spacing between the magnet and sensor/transmitter. Make sure that the Head Unit is completely locked into position and the handlebar mount is not over tightened. If this check does not solve the problem, talk to your Vetta Retailer or connect to [www.vetta.com](http://www.vetta.com).

**IMPORTANT:** Following the installation tests above, make sure that the Spoke Magnet locking screw and all Zip-Ties are properly tightened. CAUTION: Do not over tighten!

TROUBLESHOOTING

- Current speed reading is erratic or does not appear.**  
Check the alignment of the wheel magnet and sensor, and the distance between the two components. Realign the magnet and sensor with the spacer.
- Current speed reading is erratic or does not appear. (RT550HDL)**  
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 does not like extremely low temperatures. Operating range is: 0°C to 50°C or 32°F to 122°F. Return the computer to a warmer climate.
- Screen is dark and display characters look "strange".**  
Computer screens do not like to be left in direct sunlight for extended periods of time. Move the computer into the shade until the screen recovers. No effect on data.
- 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 that do not offer service.**

**ACUMEN INC.**, at its sole discretion will repair or replace items at its own cost. Users are responsible for all freight 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 [customerservice@vetta.com](mailto:customerservice@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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