

VETTN®

V80 V80

CYCLE COMPUTER OWNER'S MANUAL
ENGLISH



INTRODUCTION

Congratulations on your purchase of the new Vetta V-80 or V-80C cycle computer. The V-80 series is designed for the serious cyclist with the features that really support a training program, whether you are a road cyclist, offroad cyclist, or triathlete. The Vetta two button feature allows easy programming and operation. The V-80 model offers seven functions for the cycling enthusiast, including readouts on elapsed time, average and maximum speed, and trip distance. The V-80C offers the additional function of cadence, which is essential to any training program that involves the measurement and improvement of cycling performance.

COMPONENT ILLUSTRATIONS



Head Unit



Sensor



Bracket



Battery



Magnet



V-80C
Cadence Magnet



V-80C
Cadence Sensor

FUNCTION LIST



SPEEDOMETER (SPD) (Mi/hr or Km/hr)

Tells you your current speed on the upper line of the display screen at all times.

Speed	0-30Mi/hr	31-60Mi/hr	Over 60Mi/hr
	0-30Km/hr	31-60Km/hr	Over 60Km/hr
Minimum Display Speed	0.1Km/hr-Mi/hr	0.5Km/hr-Mi/hr	1Km/hr-Mi/hr



CUMULATIVE ODOMETER (ODO)

Tells you your cumulative distance until you perform an all clear total reset, the battery is changed, or the unit passes 9999.9 mi. or km.

TRIP ODOMETER (DST)

Tells you the distance for your current ride from 0 to 999.99 mi. or km. Automatically resets after 999.99 mi. or km. Trip odometer will commence automatically when the bicycle wheel rotates. To reset the trip odometer to zero at the end of your ride, press the "SET" and "MODE" buttons simultaneously.



ELAPSED TIME (RT)

Elapsed time begins when the wheel begins to rotate. It starts automatically



when the wheel is set into motion and stops when the wheel stops for over four seconds. When one hour of riding time has elapsed, the clock display will automatically display the time as hours and minutes. When ten hours of riding time have elapsed, the clock will return to 0:00. Average speed will show an “E” for error. Distance (DST) and maximum speed (MXS) will continue to accumulate. To clear the elapsed time press the “SET” and “MODE” buttons while in the elapsed time mode.



MAXIMUM SPEED (MXS)

Maximum speed is your highest attained speed on your current ride. It is stored and displayed until an all clear reset is performed or the battery changed.

AVERAGE SPEED (AVS)

Your average speed is calculated using your true ride time and trip distance. The minimum unit displayed is 0.1 Km/hr or Mi/hr.



DIGITAL 12/24 HOUR CLOCK(MODEL V-80) DIGITAL 24 HOUR CLOCK(MODEL V-80C)

Gives you the time of day in a 12 or 24 hour format. To display the clock, press the “MODE” button for one second. To change between the 12 and 24 hour clock, press the “MODE” button for three seconds while in the clock mode. Press the “MODE” button again to return to odometer mode.



CADENCE (RPM) (MODEL V-80C ONLY)

Crank arm cadence (RPM) is displayed from 15 to 199 RPM.

FEATURE LIST

RESETTABLE ODOMETER (V-80)

The cumulative odometer on the V-80 can be preprogrammed to any desired mileage. This feature allows you to retain your cumulative mileage when replacing batteries or allows you to lie about your mileage to impress your friends.

AUTO POWER SAVING MODE (AUTO START-STOP)

As a battery saving device, Vetta computers will automatically shut down after 10 minutes of non-use. Your V-80 or V-80C will automatically restart itself as soon as the unit receives input from the wheel.

AUTO SCAN V-80

Once it is activated, this feature scans all display modes at 3 second intervals. To activate this feature, press the "SET" button while in the trip distance mode. To deactivate the Auto Scan mode press either the "SET" or "MODE" button. **V-80C ONLY**—Select any mode except odometer, press and hold the "MODE" button, then press the "SET" button to activate. Follow the same steps to deactivate the Auto Scan mode.

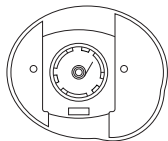
ALL CLEAR TOTAL RESET V-80

To completely clear the unit of all information, press the “SET” and “MODE” buttons for 10 seconds. The unit will return to the programming mode with the flashing Km/hr symbol displayed. The unit is now ready to reprogram. Do not clear the computer unless you need to reprogram the unit. **V-80C ONLY**—Select the odometer mode and press the “SET” button for 10 seconds. Unit will revert to the programming mode with a flashing Km/hr display.

USER MODIFIABLE SCREEN (MODEL V-80C ONLY)

The screen positions for the Speed and Cadence readings can be easily switched. In the Cadence mode, press and hold the SET button, then press the MODE button at the same time. Speed (SPD) will be displayed on the lower line and Cadence (RPM) on the upper line. Press SET then MODE buttons again and the display will change back.

BATTERY INSTALLATION



LR44 1.5v Battery

The V-80 and V-80C computers use a common **LR44 1.5v** button cell battery. Replacement batteries are available at most camera shops and from your Vetta retailer. Under normal usage a battery should last approximately one year. **NOTE:** *Most problems that occur with cycle computers are caused by dead or weak batteries. If you are having problems with your computer's operation, check and replace the battery first.*

STEP 1

Remove the battery cover from the bottom of the computer by turning the battery cap counterclockwise with a coin.

STEP 2

Install the battery into the battery compartment with the positive (+) side of the battery facing the compartment door. Be careful when you are installing the battery not to bend any of the battery contacts.

STEP 3

Screw the battery cap firmly into place. Make sure that the rubber o-ring seal does not get pinched or distorted in this operation as this may compromise the waterproofing of the unit.

BUTTON FUNCTIONS




“SET” BUTTON (UPPER LEFT)


The “SET” button confirms, resets, or clears numbers.

“MODE” BUTTON (LOWER LEFT)

The “MODE” button starts, stops, or moves in a loop sequence from one function to another.

WARNINGS AND CAUTIONS

 **CAUTION** 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.

 **CAUTION** 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 improper installation of this device may void the warranty. If you are in doubt about any aspect of the installation or operation of this product, consult your local bicycle retailer for clarification.

PROGRAMMING THE COMPUTER HEAD

Now that you are familiar with the features of your Vetta V-80 or V-80C cycle computer, you are ready to begin programming the unit specifically for your bike. Take a few minutes to familiarize yourself with the buttons and their functions before you proceed to program the unit.

SETTING MILES/HOUR OR KILOMETERS/HOUR (V-80)



After the battery is installed, all of the displays will be illuminated. Km/hr will then appear on the screen.

STEP 1

Press the "MODE" button to switch between miles and kilometers.



STEP 2

When your selection has been made, press the "SET" button to confirm your selection and move to the wheel circumference selection mode.

SETTING MILES/HOUR OR KILOMETERS/HOUR (V-80C)



After the battery is installed, all of the displays will be illuminated. Km/hr will then appear on the screen.

STEP 1

Press the "MODE" button to switch between miles and kilometers.



STEP 2

When your selection has been made, press the "SET" button to confirm your selection and move to the wheel circumference selection mode.

DETERMINING YOUR CORRECT WHEEL SIZE

Vetta cycle computers are programmed using the circumference of the wheel measured in millimeters. Note that while your computer can be programmed to +/- 1mm for total accuracy, discrepancies of as much as 50mm or more will not have a significant effect on the accuracy of the unit for most normal rides.

The following chart lists the programming sizes for many of the most popular wheel sizes currently in use. These numbers are estimations and may vary slightly from the size of your actual wheel depending on the manufacturer of the tire that you are using.

TIRE SIZE	CIRC.	TIRE SIZE	CIRC.	TIRE SIZE	CIRC.
26 x 1.7	2035	27 x 1-1/4	2180	700 x 25c	2124
26 x 1.9	2055	650 x 20c	1945	700 x 28c	2140
26 x 2.0	2075	650 x 23c	1990	700 x 32c	2155
26 x 2.1	2095	700 x 20c	2074	700 x 38c	2170
27 x 1.0	2140	700 x 23c	2114	700c Tubular	2130

WHEEL SIZE CALCULATION

If the wheel size of your bike is not listed in the chart, follow these simple steps to calculate the wheel circumference number for your bike.

STEP 1

Measure the distance from the center of the front axle to the ground in millimeters. If you are measuring in inches, simply multiply the number of inches by 25.4 to get millimeters. If you want total accuracy, make this measurement while you are sitting on the bike.

STEP 2

Multiply the above number by 6.2832 (2π). The result is your wheel circumference calculated in millimeters.

STEP 3

Enter this resulting number into the computer (see next instructions).

PRESET VALUE

The V-80 and V-80C computers have a factory preset wheel size value of 2155 (700 x 32c).

PROGRAMMING YOUR WHEEL SIZE (V-80)



Once you select miles or kilometers and press the “SET” button, the V-80 will automatically advance into the wheel size setting mode. (See SETTING MILES/HOUR OR KILOMETERS/HOUR)

STEP 1

The default wheel size setting of 2155 (700 x 32c) will appear on the screen with the first digit flashing. Use the “MODE” button to advance this digit (5,6,7,8...) until the number you want appears and is flashing.

STEP 2

When the correct number appears, press the “SET” button to select that number and advance to the next digit. When you have finished selecting your four numbers the screen will return to the speedometer mode. You are now ready to install the V-80 computer on your bike.

STEP 3

To check the selected wheel circumference number, simply press the “SET” and “MODE” buttons simultaneously. The display will show for three seconds. To reset the wheel circumference number, press the “SET” and “MODE” buttons simultaneously for three seconds to display current wheel size number. Again press the “SET” and “MODE” buttons simultaneously for three seconds and the original number will blink. Repeat the steps above to change the wheel size setting.

To reset the wheel circumference number, press the “SET” and “MODE” buttons simultaneously for three seconds to display current Wheel size number. Again press the “SET” and “MODE” buttons simultaneously for three seconds and the original number will blink. Repeat the steps above to change the wheel size setting.

PROGRAMMING YOUR WHEEL SIZE (V-80C)



Once you select miles or kilometers and press the “SET” button, the V-80C will automatically advance into the wheel size setting mode. (See SETTING MILES/HOUR OR KILOMETERS/HOUR)

STEP 1

The default wheel size setting of 2155 (700 x 32c) will appear on the screen with the first digit flashing. Use the “MODE” button to advance this digit (5,6,7,8...) until the number you want appears and is flashing.

STEP 2

When the correct number appears, press the “SET” button to select that number and advance to the next digit. When you have finished selecting your four numbers the screen will return to the speedometer mode. You are now ready to install the V-80C computer on your bike.

STEP 3

To check the selected wheel circumference number, simply press the “SET” and “MODE” buttons simultaneously. The display will show for three seconds. To reset the wheel circumference number, press the “SET” and “MODE” buttons simultaneously for three seconds to display current wheel size number. Again press the “SET” and “MODE” buttons simultaneously for three seconds and the original number will blink. Repeat the steps above to change the wheel size setting.

To reset the wheel circumference number, press the “SET” and “MODE” buttons simultaneously for three seconds to display current Wheel size number. Again press the “SET” and “MODE” buttons simultaneously for three seconds and the original number will blink. Repeat the steps above to change the wheel size setting.

PROGRAMMING THE RESETTABLE ODOMETER (V-80)



Once you have programmed your wheel size setting, the computer will then enter the programming sequence for the resettable odometer indicated by a flashing "0000.0". If you do not want to program the odometer, press the "SET" button to exit the programming sequence and advance to the ODO mode. If you are replacing a battery and wish to retain your mileage in the computer, follow these steps:

STEP 1

Press both the "SET" and "MODE" buttons simultaneously and the last digit (0) will begin flashing.

STEP 2

Advance the digit using the "MODE" button until you get to the desired number.

STEP 3

Press the "SET" button to confirm your selection and advance to the next number in the sequence.

STEP 4

Repeat this process until you reach your desired mileage and all the digits have been set. A final press of the "SET" button will complete the programming sequence and advance you to the ODO mode.

SETTING THE CLOCK V-80



STEP 1

In any display mode, press the the "MODE" button for one second to display the clock screen.

STEP 2

While the clock display is visible, press the "MODE" and "SET" buttons simultaneously to reset the clock and the last digit will start blinking. Press the "MODE" button until you reach the desired number.

STEP 3

Press the "SET" button to confirm your selection. Continue this procedure until the proper time is completely set.



SETTING THE CLOCK V-80C



STEP 1

In any display mode, press the the "MODE" button for one second to display the clock screen.

STEP 2

While the clock display is visible, press the "MODE" and "SET" buttons simultaneously to reset the clock and the last digit will start blinking. Press the "MODE" button until you reach the desired number.

STEP 3

Press the "SET" button to confirm your selection. Continue this procedure until the proper time is completely set.



MAGNET AND SENSOR INSTALLATION

We recommend that you install your V-80 or V-80C computer in the following manner, starting with the sensor unit on the fork and working up to the mounting bracket on the handlebar.

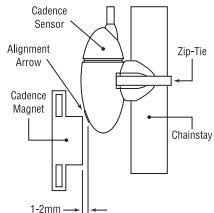
STEP 1

Mount the Vetta universal sensor loosely (so that you can slide it around) to the fork blade using the zip-tie provided. The sensor can be mounted at any point along the fork. However, we recommend a position on the back side near the top of the left fork blade. This position will help protect the sensor from being hit by rocks, tree branches and other objects.

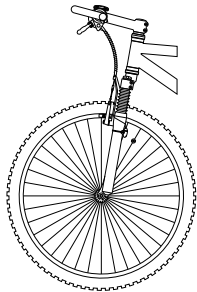
STEP 2

Again, loosely attach the sensor magnet to one of the spokes on the left side of the front wheel. Adjust the magnet and sensor positions by sliding both pieces around until you get the sensor as high on the fork blade as possible while still maintaining the necessary magnet-to-sensor spacing (1-2mm).

NOTE: The magnet should pass within 1-2mm of the sensor, and the top of the magnet should be no higher than the top of the small arrow molded into the face of the sensor.



Sensor Diagram



Wiring Diagram

STEP 3

Route the sensor wire up the back of the fork, securing it with electrical tape.

STEP 4

Carefully wrap any excess sensor wire around the front brake cable housing, securing with electrical tape when necessary. When you are finished, you should have just enough slack for the computer mounting bracket to attach to the handlebar.

Check to make sure that all of the excess sensor wire is either taped down or wrapped around the brake cable housing so that nothing can catch on it while you are riding.



CAUTION

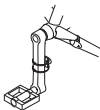
Do not use zip-ties to secure the sensor wire to the bike because doing so may result in cut or broken wires.



CAUTION

Be sure to leave enough slack in the wire to allow for the steering motion of the bike and the action of the suspension fork, if you have one.

CADENCE SENSOR AND MAGNET INSTALLATION (V-80C only)

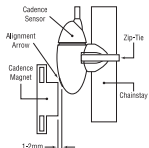


STEP 1

Mount the cadence sensor to the outside of the non-driveside left chainstay. The sensor should be mounted facing the crank arm.

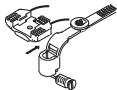
STEP 2

Mount the magnet on the crank arm using the supplied zip-ties. Make sure that the magnet on the crank and the sensor on the chainstay are 1 to 2mm apart. Route the cable from the sensor up the down tube and secure it by using electrical tape.



Sensor Diagram

HANDLEBAR BRACKET AND HEAD UNIT INSTALLATION

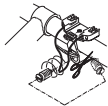


STEP 1

Attach the computer mounting bracket to the mounting band by sliding the disc on the top of the mounting band into the slot provided on the bracket until it snaps into place.

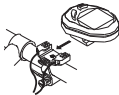
STEP 2

Cut the plastic screw from the mounting band and place the mounting band on the handlebar/stem with the mounting bracket facing up. Wrap the mounting band around your handlebar/stem and through the slot on the other side of the bracket, taking up as much slack as possible. Insert the screw into the slot as shown and tighten the band with a screwdriver.



STEP 3

The head unit of the V-80/V-80C is designed to lock into its bracket. Slide the computer from the front to the back until you hear an audible "snap" indicating the unit is locked firmly in place.



STEP 4

Adjust the unit on the handlebar/stem until you are satisfied with its position, then tighten the screw until the mounting band is secure.



STEP 5

Cut off the excess band.



CAUTION

Do not over tighten the mounting band as this may result in breakage (stripped screw or mounting band). The mounting band only needs to be tightened enough to keep it from rotating on the handlebar/stem during normal riding.

INSTALLATION TEST

Once you have finished with the installation procedure, you are ready to test the unit to make sure that it works.

STEP 1

Make sure that the computer head is locked firmly into the mounting bracket.

STEP 2

Advance the computer to the speedometer mode.

STEP 3

Pick up the front of the bicycle and spin the front wheel. The computer should register speed within 1-2 seconds. If you do not get a speed reading, check to be sure that the magnet and sensor alignment is correct and that the space between the magnet and sensor is 1-2mm or less. If this does not solve the problem, talk to your Authorized Vetta Retailer. In the United States Vetta customers can call our service hotline at 1.800.GO.VETTA.

WARRANTY

The Vetta companies, including Vetta USA Limited and A.H. Vetta Group Limited, warrant all Vetta products, to the original purchaser, to be free of defects in materials or workmanship for a period of one year from the original date of purchase. Vetta will, at its sole discretion, repair or replace any product deemed defective. This express warranty is in lieu of all other warranties, either expressed or implied. Any warranties of merchantability or fitness for a particular purpose are limited to the one year duration of the above express warranty. Vetta will not be held liable for any incidental or consequential damages.

WARRANTY RETURN AND REPAIR POLICY

If you ever experience a problem with the function of your Vetta V-80 or V-80C cycle computer, please visit your local Authorized Vetta Dealer for assistance.

Should you experience a problem with your Vetta V-80 or V-80C cycle computer that can not be solved by your local Authorized Vetta Dealer, please follow the simple steps on the following pages to assure quick and efficient processing of your claim.

STEP 1

Fill out the warranty information card within this manual.

STEP 2

Contact the appropriate Vetta Customer Service Center listed below for help and to obtain a Return Authorization Number (RA Number).

STEP 3

Send the unit and information card back to the appropriate Vetta Customer Service Center, together with the original copy of your purchase receipt and a detailed explanation of the problem you are experiencing. Please be sure to write the Return Authorization Number (RA Number) on your return package.

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WARRANTY INFORMATION CARD

Name

Address

Phone/Fax Number

RA Number

Date of Purchase

Place of Purchase

Problem