

PRO

**POWERS YOUR
PERFORMANCE**

ENGLISH

PRO SCIO

X-1.6 & W-2.1

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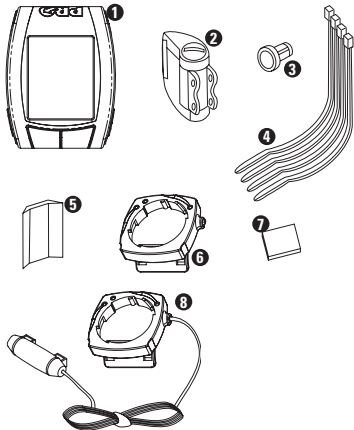
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WARNINGS & CAUTIONS

- **WARNING:** Failure to pay attention to the road, trail, traffic or your surroundings could result in an accident, with risk of serious injury, paralysis or death. You must focus on riding, not your computer. Learn computer operations, and do all possible computer operations when not riding. For any operations you choose to perform while riding, choose a time and place where this distraction has less risk.
- **CAUTION:** Mount the Cyclecomputer according to the directions in this instruction manual.
- **CAUTION:** Avoid direct impact to the Cyclecomputer unit.
- **CAUTION:** Do not submerge the Cyclecomputer unit.
- **CAUTION:** Avoid using the Cyclecomputer unit in or near strong electromagnetic fields such as high-voltage power lines or other transmitters.
- **CAUTION:** Do not disassemble the unit.
- **CAUTION:** Make sure the magnet and the transmitter are well aligned and check them regularly.
- **CAUTION:** PRO Scio Cyclecomputers are intended for use on bicycles only and should not be used on any motorized vehicle.
- **CAUTION:** Change the battery prior to failure to avoid data loss.
- **CAUTION:** Clean the unit with a mild detergent and a soft dry cloth. Never use any kind of solvent or alcohol.

COMPONENTS OF THE CYCLECOMPUTER



- 1 **CYCLO COMPUTER UNIT**
- 2 **WIRELESS FORK TRANSMITTER**
(SCIO W-2.1 ONLY)
- 3 **WHEEL MAGNET**
- 4 **ZIP-TIES**
- 5 **WIRELESS FORK TRANSMITTER MOUNTING PAD**
(SCIO W-2.1 ONLY)
- 6 **WIRELESS MOUNTING BRACKET**
(SCIO W-2.1 ONLY)
- 7 **MOUNTING BRACKET RUBBER PAD**
- 8 **WIRED TRANSMITTER/ MOUNTING BRACKET**
(SCIO X-1.6 ONLY)

REPLACING THE BATTERY

PRO Scio Cyclecomputers are powered by a CR2032 3v Lithium Battery. Under normal conditions, this battery should last approximately one year.

REPLACING THE COMPUTER BATTERY

1. Using a coin, turn the battery door counter clockwise until the door comes free.
2. Take care not to damage the O-ring seal for the battery compartment and carefully remove the old battery.
3. Place a new battery in the battery compartment with the positive (+) side toward the battery door. Be extremely careful not to bend the battery contact when inserting a new battery.
4. Place the battery door over the opening and tighten it down by using a coin and turning in a clockwise direction.
5. If the O-ring has been damaged, replace it before reinstalling the battery door.

CAUTION: Extreme care should be taken when replacing the battery to ensure the unit remains fully water resistant. Failure to properly replace the battery and correctly seal the unit may cause the unit to become damaged and may void the warranty.

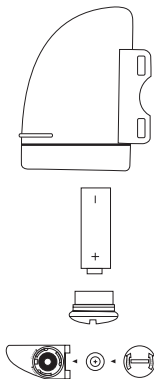


CHANGING THE BATTERY IN THE WIRELESS SPEED TRANSMITTER

The Wireless Speed Transmitter uses a 23A 12v Alkaline battery. Under normal conditions, this battery should last approximately one year.

1. Using a coin, turn the battery door counter clockwise until the door comes free.
2. Take care not to damage the O-ring seal for the battery compartment and carefully remove the old battery.
3. Place a new battery in the transmitter positive (+) side toward the battery door.
4. Place the battery door over the opening and tighten it down by using a coin and turning in a clockwise direction.
5. If the O-ring has been damaged, replace it before reinstalling the battery door.

NOTE: Extreme care should be taken when replacing the battery to ensure the unit remains fully water resistant. Failure to properly replace the battery and correctly seal the unit may cause the unit to become damaged and may void the warranty.



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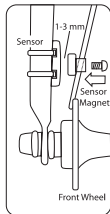
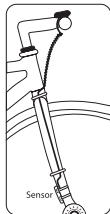
INSTALLING THE WIRED CYCLECOMPUTER ON YOUR BIKE - PRO SCIO X-1.6

INSTALLING WIRED FRONT WHEEL SPEED SENSOR AND BRACKET

The PRO Scio X-1.6 uses a single wired sensor attached to the front fork.

1. Attach the front wheel sensor to either fork blade using the zip-ties provided. Snug up the zip-ties but do not fully tighten them.
2. Attach the spoke magnet to a spoke on the same side of the wheel as the sensor. Tighten the attachment screw just enough to hold the magnet in place but loose enough so that it is still movable.
3. Adjust the position of the sensor and magnet so they are in proper alignment as shown in the drawing and tighten the zip-ties and magnet.

NOTE: The magnet should pass 1-3mm away from the sensor. The closer you can get the magnet to the sensor the better.



INSTALLING THE WIRED CYCLECOMPUTER ON YOUR BIKE - PRO SCIO X-1.6

INSTALLING WIRED FRONT WHEEL SPEED SENSOR AND BRACKET

(continued)

4. Route the remaining wire and bracket up the fork securing it with tape. Excess wire should be wrapped around the brake cable housing until there is just enough slack remaining to allow the bracket to be attached to the handlebars. Attach the bracket to the handlebars and tighten the zip-ties.

CAUTION: When installing the system on a bicycle with front suspension, be sure to leave enough slack for the action of the fork.

MOUNTING THE HANDLEBAR/STEM BRACKET

1. Place the Cyclecomputer unit into the mounting bracket and turn clockwise until the unit snaps into place.

NOTE: When mounting the unit on the stem, you must first remove the 4 screws on the back of the mounting bracket and rotate it 90 degrees. Replace the screws - do not overtighten. The unit is now properly aligned for mounting on the stem.

2. Place the mounting bracket in the desired position on handle bars or stem.
3. Thread the zip-ties provided through the holes on one side of the mounting sleeve and around the handlebar or stem. Once the unit is positioned correctly, secure the zip-ties and trim off the excess ends.

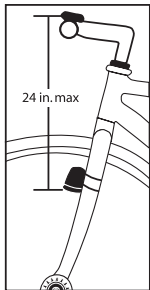


INSTALLING THE WIRELESS CYCLECOMPUTER ON YOUR BIKE - PRO SCIO W-2.1

INSTALLING THE WIRELESS FORK TRANSMITTER

The PRO Scio W-2.1 receives speed and distance from a wireless transmitter mounted to the front fork.

1. Attach the wireless front wheel sensor and rubber mounting pad to the front of the left fork blade using the zip-ties provided so the battery cap is pointing downward. Snug up the zip-ties but do not fully tighten them. The sensor should be mounted as high on the fork blade as possible. The range of the transmitter is approximately 18in (46cm). Mounting it high on the fork will assure good signal reception. Other mounting locations may work, but we feel this is the best location for most applications.
2. Attach the spoke magnet to a spoke on the same side of the wheel as the sensor. Tighten the attachment screw just enough to hold the magnet in place but loose enough so that it is still movable.

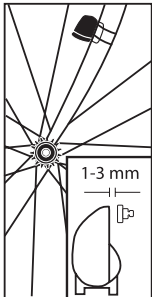


INSTALLING THE WIRELESS CYCLECOMPUTER ON YOUR BIKE - PRO SCIO W-2.1

INSTALLING THE WIRELESS FORK TRANSMITTER (CONTINUED)

3. Adjust the position of the sensor and magnet so they are in proper alignment as shown. The magnet should pass by the sensor adjacent to the molded plastic line at a distance of 1-3mm.
4. Once everything is in alignment, fully tighten the spoke magnet in place and tighten the zip-ties holding the sensor to the fork.

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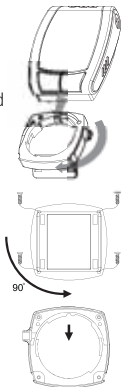
INSTALLING THE WIRELESS CYCLECOMPUTER ON YOUR BIKE

MOUNTING THE HANDLEBAR/STEM BRACKET

1. Place the Cyclecomputer unit into the mounting bracket and turn clockwise until the unit snaps into place.

NOTE: When mounting the unit on the stem, you must first remove the 4 screws on the back of the mounting bracket and rotate it 90 degrees. Replace the screws - do not overtighten. The unit is now properly aligned for mounting on the stem.

2. Place the mounting bracket in the desired position on handle bars or stem.
3. Thread the zip-ties provided through the holes on one side of the mounting sleeve and around the handlebar or stem. Once the unit is positioned correctly, secure the zip-ties and trim off the excess ends.



KEYS & THEIR FUNCTIONS



MODE KEY

- Advances through main operating modes
- Press & Hold: Selects BIKE 1 or BIKE 2 in Average Speed mode
- Sets variable being adjusted in the Programming Sequence
- Deactivates SCAN mode

SET KEY

- Adjusts variable being set in the Programming Sequence
- Selects Distance UP or DOWN in Distance Mode
- Press & Hold: Activates SCAN mode during operation
- Deactivates SCAN mode
- Stops/Starts Stopwatch

MAIN OPERATING MODES

The PRO Scio X-1.6 and PRO Scio X-2.1 have 7 main operating modes. Scroll through modes by **Pressing the Mode** key.

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TIME OF DAY



RIDE TIME



DISTANCE



ODOMETER



AVERAGE SPEED



MAX SPEED



STOPWATCH

MAIN OPERATING MODES

SCAN MODE

The PRO Scio X-1.6 and PRO Scio X-2.1 can be programmed to automatically scan through all operating modes in 2-second intervals. To activate Scan mode, **Press & Hold** the **Set** key for 2 seconds in any operating mode. To deactivate Scan mode, **Press** the **Set or Mode** key.



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MEASURING WHEEL SIZE

DETERMINING YOUR WHEEL SIZE

PRO Scio Computers use the rolling circumference of your wheel and tire combination to determine speed and distance. The more accurate this setting, the more accurate your ride information will be. However, variations of less than 30mm from the actual circumference will have very little impact on the overall accuracy of the unit.

If your wheel/tire size is not one of the sizes in the accompanying chart, or if you desire absolute accuracy, you may enter an exact wheel circumference into the system. Use the method on the following page for measuring the circumference of your wheel/tire combination.

WHEEL SIZE	CIRCUMFERENCE
26 X 1.0	1973
26 X 1.5	2026
26 X 1.6	2051
26 X 2	2114
700 X 20C	2114
700 X 23C	2133

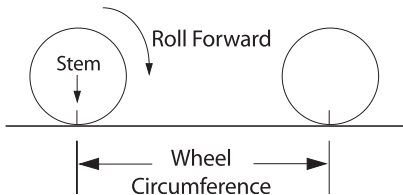
WHEEL SIZE	CIRCUMFERENCE
700 X 25C	2146
700 X 28C	2149
700 X 32C	2174
700 X 35C	2205
700 X 40C	2224

MEASURING WHEEL SIZE

MEASURING WHEEL SIZE USING ROLLOUT METHOD

The roll-out method is the most accurate method for determining the circumference of your wheel/tire combination.

1. On a flat open surface make a mark on your tire and the floor exactly where they meet.
2. Roll your bike forward one full revolution of the front wheel and mark the point on the floor where the revolution is complete. For maximum accuracy be sitting on the bike while someone rolls you and the bike forward.
3. Measure the distance from the first mark to the second in millimeters and enter the resulting number into your computer.



PROGRAMMING THE CYCLECOMPUTER

SELECTING MILES OR KILOMETERS, SETTING WHEEL SIZE AND ODMETER

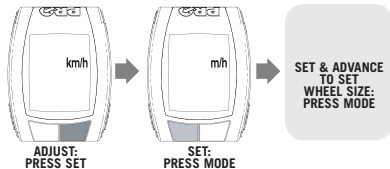
The main Programming Sequence calibrates the computers measurements for both Bikes 1 and 2. In order to assure accuracy of the unit, all fields of information must be programmed.

1. In Odometer Mode, Press & Hold the Mode key to enter the Setting Sequence.

Note: you must enter all fields of information to return to Operating mode.

SELECTING MILES OR KILOMETERS

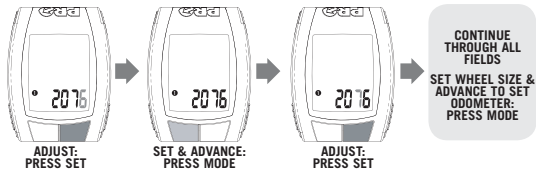
2. Select Miles or Kilometers by Pressing the Set key.
3. Set Miles or Kilometers by Pressing the Mode key. The computer will automatically advance to set Wheel Size.



PROGRAMMING THE CYCLECOMPUTER

SETTING WHEEL SIZE

4. Adjust wheel circumference of Bike 1 starting with right through left digits (digit being adjust will blink).
5. Adjust blinking digit by pressing the Set key.
6. Set digit and advance to next by Pressing the Mode key.
7. Once all fields have been adjusted, Press the Mode key to advance to adjust wheel circumference for Bike 2. Repeat Steps 4 through 6.
8. Once Bike 2 wheel circumference has been set, press the mode key to advance to set Odometer.

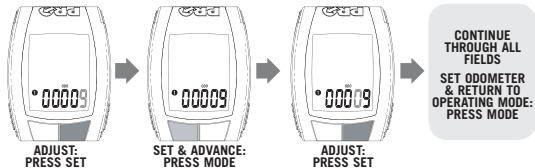


PROGRAMMING THE CYCLECOMPUTER

SETTING ODOMETER

PRO Scio Cyclecomputers allow you to manually program your odometer. This is useful for preserving distance totals in the event of battery failure or if you need to reset the computer for any reason.

9. Set Odometer of Bike 1 starting with right through left digits (digit being adjust will blink).
10. Adjust blinking digit by pressing the Set key.
11. Set digit and advance to next by Pressing the Mode key.
12. Once all fields have been adjusted, Press the Mode key to advance to Odometer for Bike 2. Repeat Steps 9 through 11.
13. Once Bike 2 Odometer has been set, Press the Mode key to return to Operating mode.

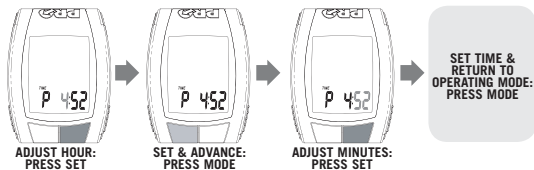


PROGRAMMING THE CYCLECOMPUTER

SETTING TIME OF DAY

PRO Scio Cyclecomputers display Time of Day in 1-minute resolution in 12 or 24-hour formats.

1. In Time Mode, Press & Hold the Mode key to enter the Programming Sequence.
2. Adjust 12 or 24-hour format by Pressing the Set key.
3. Set format and advance to set time by Pressing the Mode key.
4. Adjust Hour by Pressing the Set key.
5. Set Hour and advance to set minutes by Pressing the Mode key.
6. Adjust minutes by Pressing the Set key.
7. Press Mode key to set minutes and return to Operating mode.

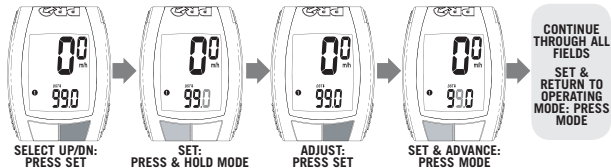


PROGRAMMING THE CYCLECOMPUTER

SETTING DISTANCE COUNTDOWN

PRO Scio Cyclecomputers allow you to program a specific distance in 1/10-mile/kilometer resolution and count down to your specified destination.

1. In Distance mode, Press the Set key to toggle between Distance Up and Down. The Distance Countdown icon (↓) will appear in the center line of the display.
2. In Distance Down mode, Press & Hold the Mode key to enter the Programming Sequence.
3. Adjust distance starting with right through left digits (digit being adjust will blink) by pressing the Set key.
4. Set digit and advance to next by Pressing the Mode key.
5. Once all fields have been adjusted, Press the Mode key to return to Operating mode.



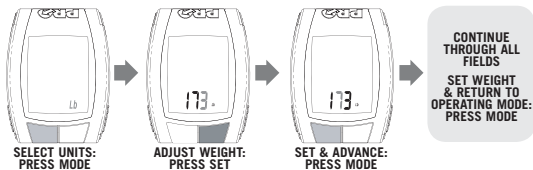
PROGRAMMING THE CYCLECOMPUTER

SETTING CALORIES INFORMATION (STOPWATCH MODE)

PRO Scio Cyclecomputers estimate calories consumed during your ride. To calculate Calories you must enter your weight.

1. In Stopwatch Mode, Press & Hold the Mode key. to enter the Programming Sequence.
2. Adjust weight units (pounds or kilograms) by Pressing the Set key.
3. Select pounds or kilograms and advance to set weight by Pressing the Mode key.
4. Adjust weight starting with right through left digits (digit being adjust will blink) by pressing the Set key.
5. Set digit and advance to next by Pressing the Mode key.
6. Once all fields have been adjusted, Press the Mode key to return to Operating mode.

NOTE: Stopwatch must be activated to calculate calories consumed.



OPERATING THE CYCLECOMPUTER

SLEEP MODE

To conserve battery life, when the Cyclecomputer does not receive a signal for a period of time, the unit goes into SLEEP mode. The display reads Time of Day in the lower display line. All other display fields are blank. Press any key to wake the unit and resume Operating mode.



RESETTING THE UNIT

To clear all ride information, Press & Hold both the Mode and Set Keys for 2 seconds in Ride Time (ATM) mode.

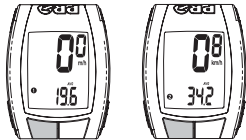


OPERATING THE CYCLECOMPUTER

SELECT BIKE 1 OR BIKE 2

PRO Scio Cyclecomputers allow you to program two separate bike specifications. Most functions are totally independent. For example, you can program Bike One for Speed and Distance in Miles and Bike Two for Speed and Distance in Kilometers.


In Average Speed mode, Press & Hold the Mode key to select between Bike 1 and Bike 2.

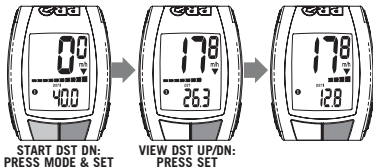


OPERATING THE CYCLECOMPUTER

DISTANCE TRAVELED / DISTANCE COUNTDOWN

PRO Scio Cyclecomputers allow you to view both distance traveled and distance remaining to your destination.

1. Once a Distance has been programmed, activate Distance Countdown by Pressing both the Mode and Set keys. The center line display segments () will display the relative distance remaining to your destination by varying display from right to left.
2. Toggle between Distance traveled and Distance Countdown by Pressing the Set key in Distance (DST) mode.

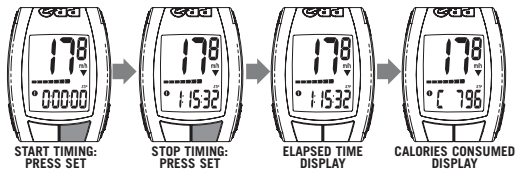


OPERATING THE CYCLECOMPUTER

OPERATING THE STOPWATCH

PRO Scio Cyclecomputers are equipped with a 20-hour Stopwatch that operates independently of Ride Time (ATM).

1. In Stopwatch Mode, Press the Set key to begin timing.
2. Press Set to stop timing. When Stopwatch is stopped, the display will cycle between Elapsed Time and Calories Consumed in 2-second intervals.



OPERATING THE CYCLECOMPUTER

PRO SCIO SERIES DISPLAY FIELDS

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SPEED

SERVICE REMINDER

BIKE 1 & 2

SCAN MODE INDICATOR

See page 15

LOWER DISPLAY LINE

Displays information specific to current operating mode, including Ride Time and Stopwatch, Distance, Time of Day, Average Speed and Max Speed

UNITS: Miles or Kilometers

AVE. SPEED COMPARISON

SPEED/DISTANCE BAR

See page 26

FUNCTION LINE

Indicates current operating mode



TROUBLESHOOTING

- **DECREASED CONTRAST IN DISPLAY SCREEN:** Battery is weak and must be replaced.
- **DISPLAY IS BLANK:** Change the battery or reset the computer.
- **DISPLAY SHOWS PARTIAL DIGITS:** Reset the computer.
- **SPEED/DISTANCE NOT RECORDING:** Check sensor/magnet alignment. Make sure that the sensor is no more than 3mm from the magnet.
- **ENTIRE SCREEN IS DARK:** Unit may have been over exposed to direct sunlight. Move the bike to the shade. The data will be OK.
- **NO OR ERATIC SPEED DISPLAY:** **1)** Distance between magnet and transmitter is too great (3 mm maximum). **2)** Interference from electro magnetic field. **3)** Sensor wires may be fully or partially severed.

FUNCTIONAL SPECIFICATIONS & RANGES

TIME OF DAY

- 24 hours with one-minute resolution
- Functional in either 12 or 24 hour formats

ODOMETER

- 9999 miles or kilometers
- 1 mile or 1 kilometer resolution

TRIP

- 9999.9 miles or kilometers
- .1 mile or .1 kilometer resolution

WHEEL SIZE

- Wheel circumference measured in millimeters
- 0 - 2999

SPEED

- 0-199.9 MPH or KPH
- 0.1 MPH or KPH resolution

STOPWATCH

- 19h 59m 59s
- 1-second resolution

WARRANTY & REPAIR

ALL PRO CYCLOCOMPUTERS ARE SUBJECT TO A LIMITED WARRANTY OF 2 YEARS.

PRO hereby warrants that all of its products are subject to a 2-year Warranty. This Warranty can only be applied to by the original purchaser of the product, and is restricted to defects in material and/or workmanship (not applicable in case of abuse, neglect or normal wear and tear!). PRO will only replace or repair those products that fully comply with the above stated rules.

For more information or specific details regarding claims against this warranty please contact your local dealer or search for your local PRO dealer or distributor in the Dealer Locator on the official PRO website (<http://www.pro-bikegear.com>).

PRO 

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