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SPEEDZONE EXPERT

OWNERS MANUAL

MODE D'EMPLOI

MANUAL DEL USUARIO

BENUTZERHANDBUCH

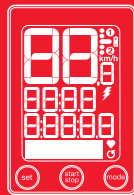
GEBRUIKERSHANDLEIDING

MANUALE UTENTE

MANUAL DO UTILIZADOR

使用手冊

取扱説明書



Printable manuals available at:

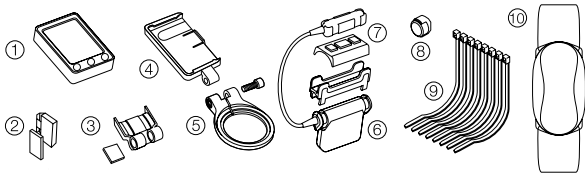
www.specialized.com

(click on: support tab)

Table of contents

Components of the Speedzone Expert	3	Re-entering calibration sequence	29
Installing Computer Mounts	4	Setting power zones (auto or manual)	30
Installing speed & cadence transmitter	5	Clear memory	32
Speedzone Expert user interface	6	Set sampling rate	33
Easy set-up and resetting	7	Linking	34
Using your Speedzone Expert (keyflow)	15	Quick PC link steps	35
Re-entering the pairing sequence	16	Replacing the battery	36
Resetting current altitude	17	Specifications and ranges	37
Clearing TRIP/ATM (Auto Timer)	18	Speedzone Expert Terminology	39
Selecting Bike #1 - #2 setting	19	Troubleshooting	40
Re-setting the wheel/tire size	20	Warranty information	41
Manually setting wheel/tire size	21		
Using the timer	23		
Re-setting the clock and date	26		
Heart rate zone setup	27		

Components of the Speedzone Expert



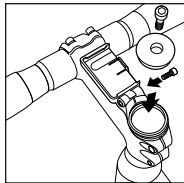
1. Speedzone cyclo-computer head unit
2. Cadence magnet
3. Handlebar bracket
4. Base mount
5. Steerer tube bracket
6. Speed transmitter

7. Cadence sensor
8. Spoke magnet
9. Zip ties
10. Digital heart rate strap

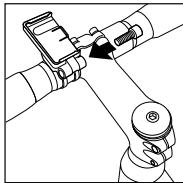
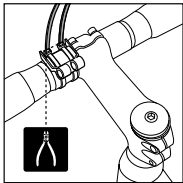
Installing Computer Mounts

- Install the **steerer tube bracket** base assembly on the steerer tube. Re-install the steerer tube top cap.
- Place **handlebar bracket** on handlebar, attach the base mount to the handlebar bracket with the included bolt.
- Adjust base to desired angle with bolt adjustment.

steerer tube bracket

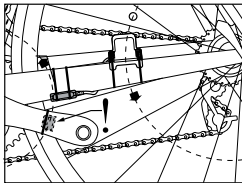
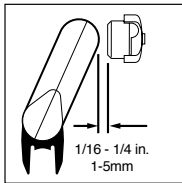
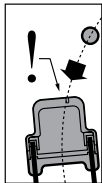


handlebar bracket

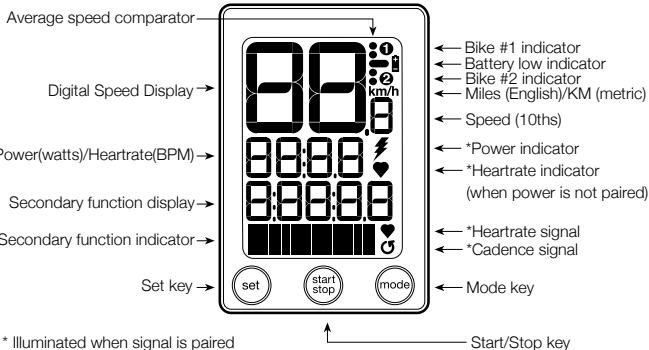


Installing speed & cadence transmitter

- Adjust spoke magnet so path of rotation passes along the groove area inside the sensor. **IMPORTANT:** Placing magnet outside the groove path may cause improper reading.
- Attach the cadence magnet with self adhesive pad to the crank arm, and position the sensor's raised line within the magnet's rotation path.

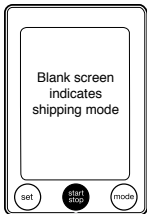


Speedzone Expert user interface

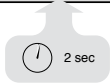


Easy set-up and resetting

Wake from shipping mode

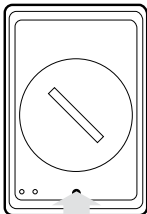


Hold "start/stop" for 2 seconds to initiate easy setup; this is only required to wake unit from shipping mode (first purchased).



OR

Reset and all clear

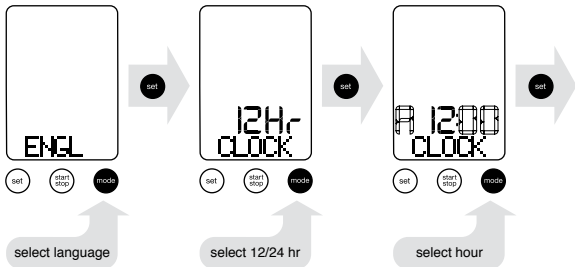


Press reset button to enter easy set up. This will clear ride data but will not clear PC download data (memory).

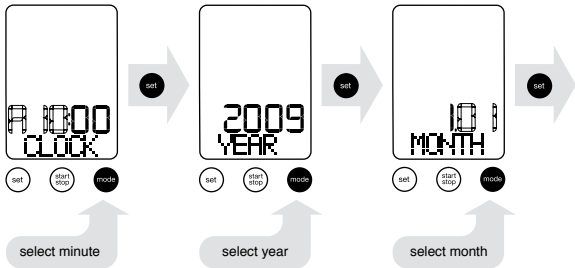


Language selection & clock setting

From initial start-up:

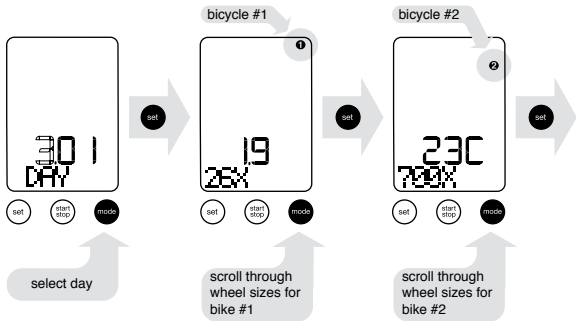


...continued clock and date setting

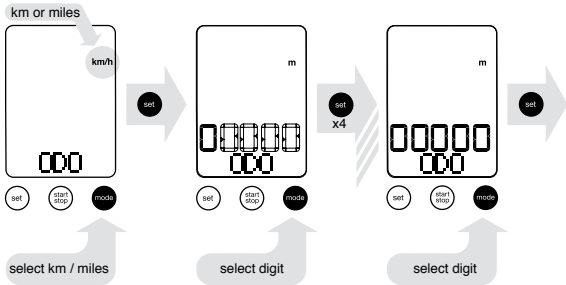


Wheel and tire size selection

(To manually set wheel size see page 20)

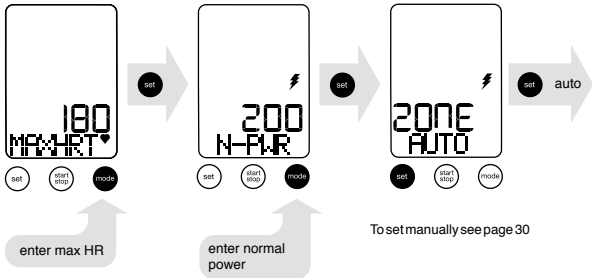


Metric (km) or English (mi) & odometer



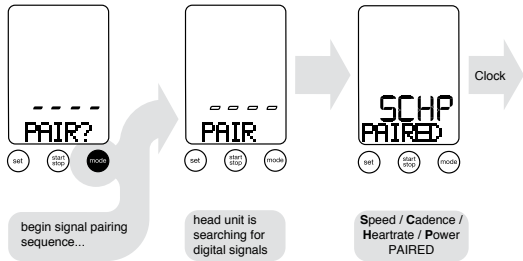
Heart rate / normal power / power zone

- Max heart rate guideline: 220 minus your age
- Normal power (N-PWR) = power (watts) sustained for 20-40 minutes of riding



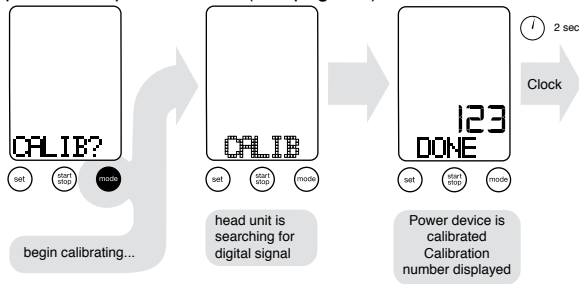
Pairing digital ANT+™ wireless device

Head unit is searching for **S**peed, **C**adence, **H**eartrate, and **P**ower transmission signal from ANT+ digital transmitters.

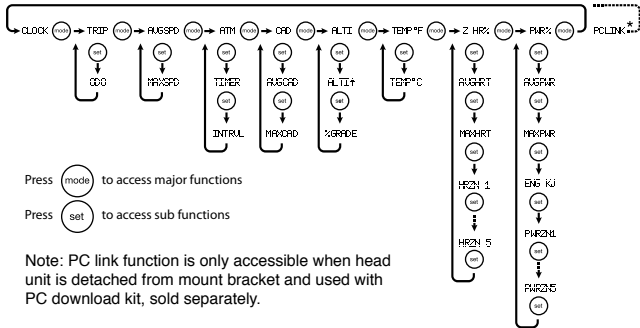


Calibrating power devices

When “CALIB” is flashing follow instruction for calibrating your specific power meter. Calibration mode will only activate when paired with power device (see page 13).

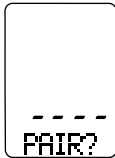
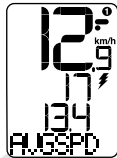


Using your Speedzone Expert (keyflow)



Re-entering the pairing sequence

Scroll to AVGSPD mode, and hold “set” key for 2 seconds. Every wireless device must be ANT+ compatible device to transmit data.

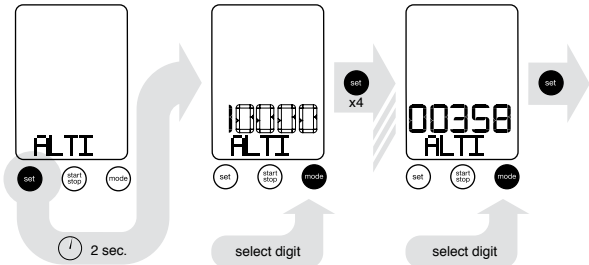


Head unit is searching for signals (see earlier section)

S - Speed
C - Cadence
H - Heart Rate
P - Power

Resetting current altitude

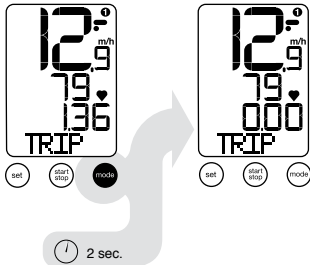
- Scroll to ALTI mode, press “set” key for two seconds.
- Using the “mode” key, select each digit and confirm with the “set” key (Enter the altitude of your specific location).



Note: Since altitude reading is affected by barometric pressure, re-setting altitude at known elevation before each ride is recommended to ensure accurate elevation reading.

Clearing TRIP/ATM (Auto Timer)

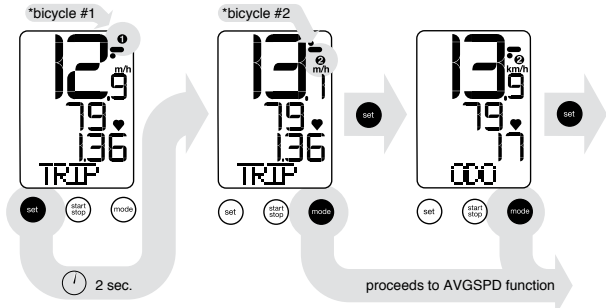
In "TRIP" or "ATM" mode, press "mode" key for two seconds. Resetting "TRIP" will only clear ride shown data only and PC download data is saved.



Selecting Bike #1 - #2 setting

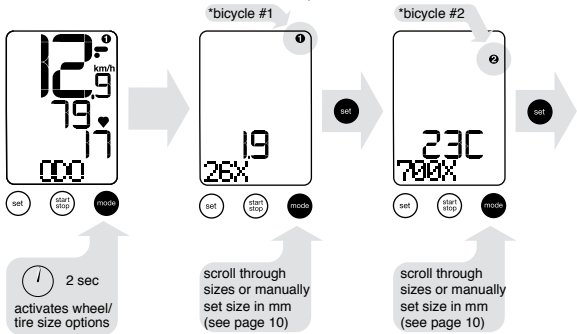
When in "TRIP" mode, press "set" key for two seconds.

Devices (ANT+ transmitters) must be "paired" for second (bike #2) setting.



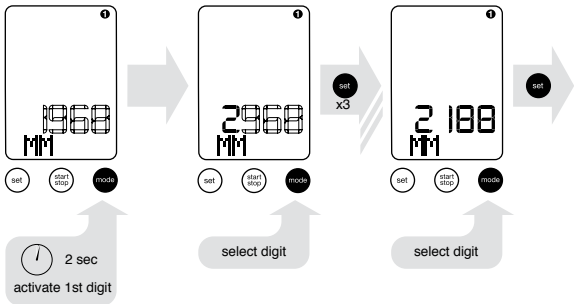
Re-setting the wheel/tire size

- In “ODO” mode, press “mode” key for two seconds
- Select desired wheel/tire size (see earlier section for details)



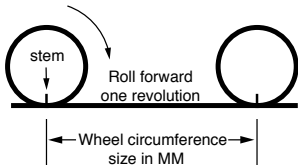
Manually setting wheel/tire size

(See wheel circumference calculation page 22)



Calculating wheel circumference

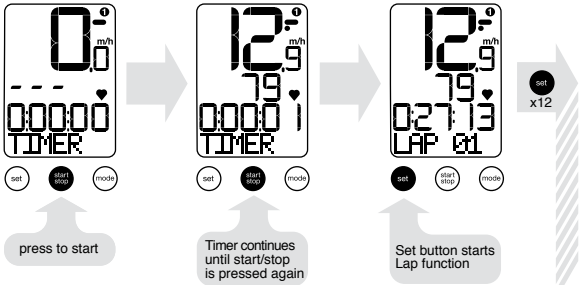
- Mark your tire and the ground where they meet. Roll bike forward full revolution and mark the point on the floor.
- Measure the distance in millimeters and enter digits.



TIRE SIZE	SIZE/MM
26X1.0	1943
26X1.25	1949
26X1.95	2055
26X2.0	2060
26X2.1	2068
26X2.2	2075
29X2.0	2300
650X20C	1945
700X21C	2092
700X23C	2102
700X25C	2113
700X28C	2138
700X32C	2161
700X35C	2175
700X38C	2187
Circumference	0000-2999

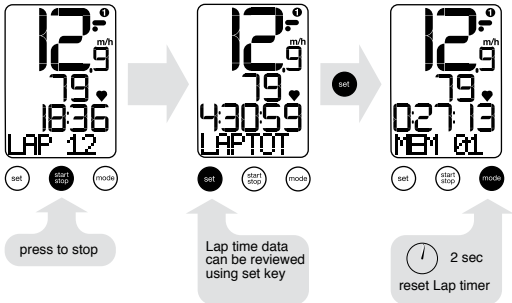
Using the timer

Timer function (Stopwatch/Lap timer). Press “mode” to “ATM” screen then press “set” to “TIMER” screen.



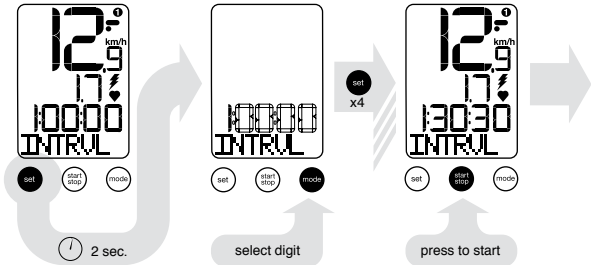
...continued use of timer

Lap timer function (Stopwatch/Lap timer)



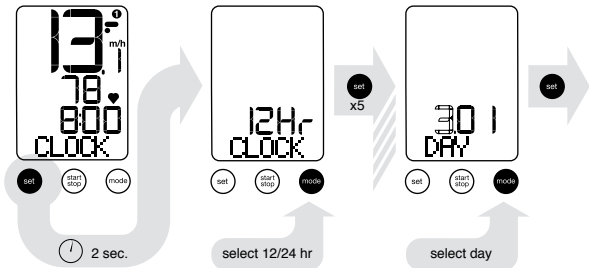
Using the interval timer

- When in “INTRVL” mode, press “set” key for two seconds.
- Set target interval time using “mode” and “set” keys.



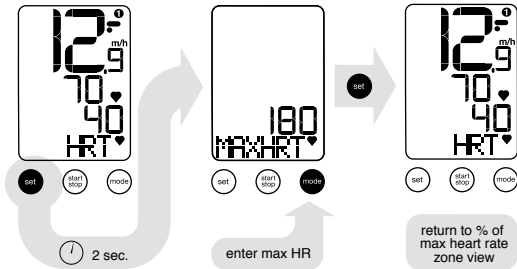
Re-setting the clock and date

- In “CLOCK” mode, press “set” key for two seconds.
- Set time and date by using “mode” and “set” keys.



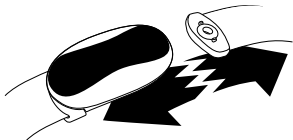
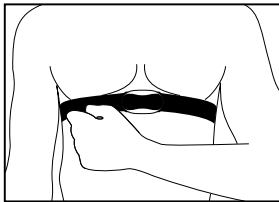
Max Heart rate setup

- Max heart rate guideline: 220 minus your age.
- Heart rate zones table on page 38.



Wearing the heart rate monitor

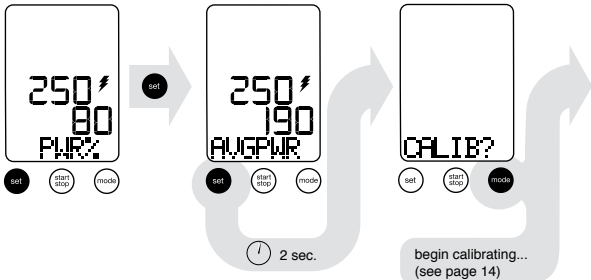
- Adjust belt to fit connecting snaps, making sure the strap is just under the pectoral muscles.



- When not in use disconnect the snap to ensure long battery life.

Re-entering calibration sequence

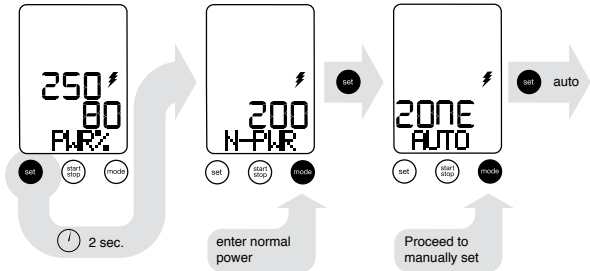
Scroll to AVGPWR mode, and hold "set" key for 2 seconds



Setting power zones (auto or manual)

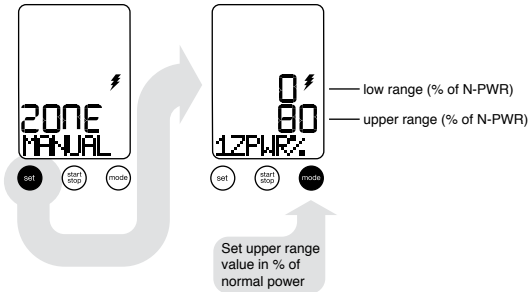
Setting “N-PWR” (normal power) will automatically set 5 (five) training zones. Auto power zones table on page 38.

Power function requires ANT+ compatible power devices.



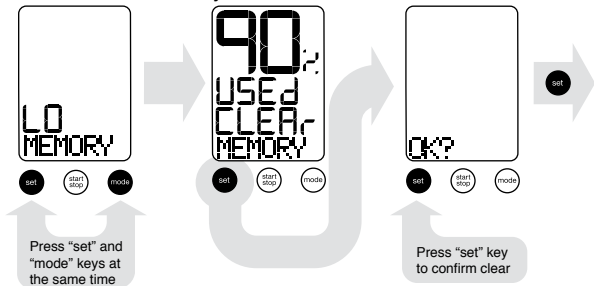
Manual power zone setting

Press "mode" from "ZONE AUTO"



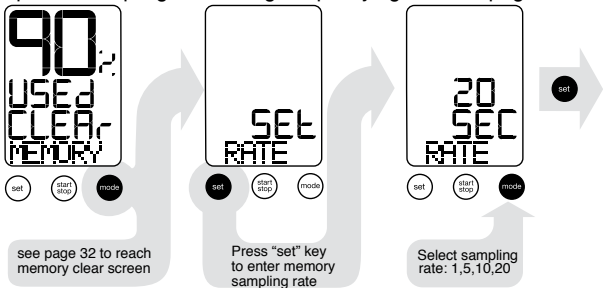
Clear memory

- When “LO MEMORY” appears, memory storage is 90% full.
- Download data before memory clear. All stored data will be erased after memory clear.



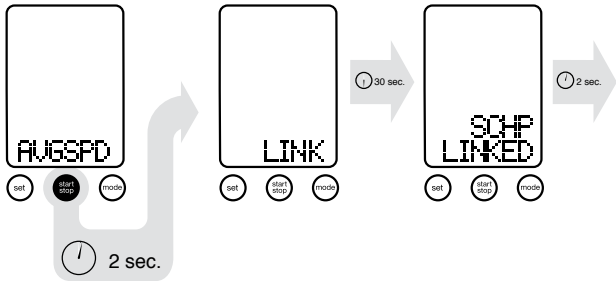
Set sampling rate

- Sampling rates: 1, 5, 10, or 20 second intervals.
- More frequent sampling rates affect storage capacity. For specific sampling rate/storage capacity figures see page 38.



Linking

- To reconnect sensors that have already been paired.
- Scroll to AVGSPD mode and hold "start stop" key for 2 seconds. Linked devices will be shown.

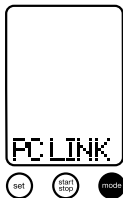


Quick PC link steps

- Remove computer from computer mount
- Go to www.specialized.com/2peak and follow instructions
- Scroll through "mode" to PC link



follow instruction on
www.specialized.com/2peak

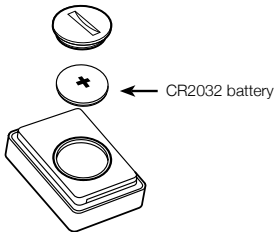


Scroll to PC Link

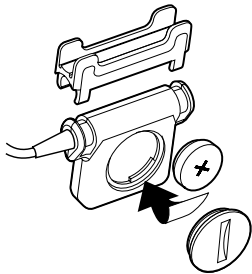
Replacing the battery

Rotate battery cover quarter turn to remove battery.

headunit



Speed/cadence sensor



Specifications and ranges

Time of day

- 24 hours with one minute resolution
- Function in either 12 or 24 hour formats
- Default value + 12:00.00 PM January 1, 2012

Odometer

- 99999 miles or kilometers
- 1 mile or 1 kilometer resolution

Wheel size

- 15 pre-programmed wheel sizes
- Wheel circumference measured in millimeters

Speed

- 0-99.9 MPH KPH
- 0.1 MPH or KPH resolution

Cadence

- 30 - 250 RPM with 1 RPM resolution

Temperature

- 15°F to 130°F (-10°C to 60°C)
- 1°F to 1°C resolution

PC download/PC link

- Windows XP, Vista, Windows 7, Mac OS X

Stopwatch chronograph

- 9h 59m 59s individual timing session
- 1 second resolution
- 12 lap maximum

Interval countdown timer

- 59m 59s individual timing session
- 1 second resolution

Altimeter

- Min: -500M (-1,640ft) Max: 9,000M (29,520ft)
- Resolution: 1M (3ft) Update: every 4 sec.
- Gradient: +/- 20%

Heart rate

- 30 -240 beats per minute (bpm)

Battery life

- 200 - 300 hours (see sampling rate*)
- Speed/Cadence sensor 400 hours
- Heart rate sensor 400 hours
- Ride duration & frequency may affect total life

Tables appendix

Heart rate Zones

"1ZHRT" = Heart rate zone 1

<u>HR Zone</u>	<u>% of Max HR</u>
Zone 1	0% - 60%
Zone 2	61% - 90%
Zone 3	71% - 80%
Zone 4	80% - 90%
Zone 5	91% - 100+%

Power Zones

"PWRZN1" = Power Zone 1

<u>Power Zone</u>	<u>% of N-PWR</u>
Zone 1	0% - 80%
Zone 2	80% - 90%
Zone 3	90% - 100%
Zone 4	100 - 110%
Zone 5	110+ %

Memory /(Data) Storage

Sampling Rate	Ride Duration
1 sec.	10 hrs.
5 sec.	50 hrs.
10 sec.	100 hrs.
20 sec.	200 hrs.

Speedzone Expert Terminology

PC LINK	Computer Link	%GRADE	Percent Gradient
CLOCK	Clock	TEMP°F	Temperature Fahrenheit
YEAR	Year	TEMP°C	Temperature Celsius
MONTH	Month	Z HRT	Zone # Heart Rate (bpm)
DAY	Day	#Z HR%	Zone 1 and % of Max HR
DATE	Date	AVGHRT	Average Heart Rate
TRIP	Trip Distance	MAXHRT	Maximum Heart Rate
ODO	Odometer	HRZN1	Heart Rate Zone #(1)
AVGSPD	Average Speed	N-PWR	Normal(Threshold)Power
MAXSPD	Maximum Speed	PWR%	% of Normal Power
ATM	Automatic Timer	AVGPWR	Average Power
TIMER	Lap Timer	MAXPWR	Maximum Power
INTRVL	Interval Timer	ENG KJ	Total Energy in Kilo Joules
CAD	Cadence	PWRZN1	Time in Powerzone # (1)
AVGCAD	Average Cadence	% USED CLEAR MEMORY	Percentage of Memory Used
MAXCAD	Maximum Cadence	SEL RATE	Data Sampling Rate
ALTI	Altitude, Current	ZONE AUTO	Automatic Zone Setting
ALTI↑	Altitude Gain	ZONE MANUAL	Manual Zone Setting

Troubleshooting

- Display is blank or shows partial digits: Change the battery or reset the computer (page 36).
- Speed/Distance is not recording: Check speed sensor/magnet alignment (page 5). Change battery on speed sensor and computer.
- Altitude reading is wrong: reset known altitude before each ride (page 17)
- Heart rate too high: Wet the contact area in the strap.
- Power reading too high: Reset calibration (page 29)
- If power reading still incorrect, contact power device manufacturer with calibration number (see page 14).
- Heart Rate and Power data is not showing: check device for ANT+ compatibility. Check or replace batteries in transmitters. Check for proper magnet alignment with powermeter device. Re "PAIR" devices (page 16)
- Computer moves on handlebar: tighten hinge bolt or tie straps. Check rubber spacer between handlebar and mount.
- Memory is full: reset the computer memory (page 32)

Important:

- Pay attention to traffic and road condition at all times and always obey traffic laws. Your first obligation is to be attentive and ride safely.
- Never let the operation of the computer distract from riding safely and avoid resetting, troubleshooting or programming the computer while riding.
- Keep the computer and all of its components tightly attached and check them regularly. If any of the components come loose, it could become tangled in the spokes or mechanism of the bicycle and cause an accident.
- Speedzone computer is intended for use on bicycle only and should not be used on motorized vehicles.
- See your authorized Specialized dealer if you have trouble installing or operating the computer.

Warranty information

Specialized Bicycle Components Inc. ("Specialized") warrants to the original purchaser that this product is free of defects in material and workmanship under normal use for period of two (2) years from the date of original purchase from an authorized Specialized retailer. If this product is found to be defective in material or workmanship within two (2) years from the date of original purchase, Specialized will in its sole discretion repair or replace this product without charge, provided the original purchaser returns the product securely packaged, postage prepaid to:

Specialized Bicycle Components Inc.
1475 S 5070 W, Suite A
Salt Lake City, UT, 84104, USA
Attn: Warranty

The original purchaser must also include a letter indicating the specific reasons for returning this product and proof of purchase.

This warranty does not apply to and is void as to physical damage resulting from neglect, abuse, alterations, modifications or use contrary to that intended by the manufacturer. Specialized disclaims all implied warranties including those of merchantability and fitness for particular purpose. Under no circumstances shall Specialized be liable for consequential damages.

Full Service and troubleshooting guide and manuals can be found at www.specialized.com

FCC ID: O4GSPPRO

MADE IN CHINA

This device complies with part 15 of the FCC Rules.

Operation is subject to the following conditions:

this device may not cause harmful interference, and

this device must accept any interference received, including interference that may cause undesired operation.

NOTES:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER 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 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.
 - Consult the dealer or experienced radio / TV technician for help.