Test Guide with use of the aeroAPP

Terminology
aeroTEST: all setups of one day
Setup: the respective combination of equipment and position
Test: the single test run within a setup

You Need:

- ✓ Your bike
- ✓ Weighing scale
- ✓ Power meter
- ✓ Possibly tools for conversions
- ✓ GPS tracker (Garmin)
- ✓ Testing equipment
- ✓ Speed sensor[1]

Preparations at Home

- ✓ Registration on aeroDATA (data.aerotune.com)
- ✓ Download the aeroAPP from the ConnectIQ Store to your Garmin
- ✓ Connect aeroAPP to your smartphone and log in to Garmin Connect (App)
- ✓ Plan the aeroTEST procedure (for example arm or head positions, helmets, suits, etc.) and, if necessary, print and prepare the test protocol
- ✓ Fully charge your Garmin, power meter and speed sensor, if necessary, change the battery

Preparations on Site

- ✓ Calibrate all sensors (Speed & Power)
- ✓ Record the system weight (you, your bike, your standard setup)

Note

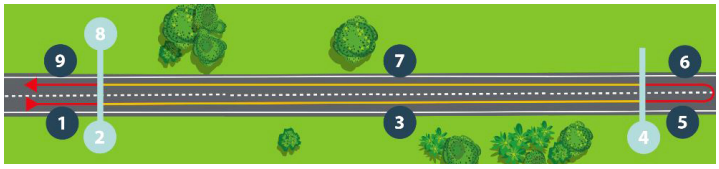
- With a Freemium account you can only use a power meter that is not already connected to another account
- Requirements for the test track: 1 km length of the test section, max. 5m height difference, straight, best possible floor covering, little tree growth and traffic
- As little wind as possible on the test day

Execution of an aeroTEST

Setup 0	Calibration run for the Aerotune algorithm	1 test
Setup 1	Baseline > Basic setup for the aeroTEST	2 tests
Setup 2	Variation/Change 1	2 tests
Setup 3	Variation/Change 2	2 tests
etc.	...	...

Test procedure of the aeroTEST

- If the test track is not yet created - you must press *Start* once when you reach the point where your test track shall start
- If the test track already exists - the aeroAPP counts the meters down to the starting point
- The aeroAPP guides you through the entire test process
- The aeroAPP rates the error deviation at the end of each test run and will ask you to repeat the test if the deviation is too large
- Click on *Next Test* to start a new test within a setup
- Click on *Next Setup* to start a new setup



1. The app counts down the meters till the beginning of the test. You accelerate to your targeted performance.
2. The app starts the test run.
3. The app counts down the meters still to be driven. You keep position and power performance constant.
4. The app tells you, that you can turn now.
5. You roll out and turn.
6. The app tells you to accelerate again. You accelerate to your previous performance.
7. The app counts down the remaining meters till the test track ends. You keep position and performance constant.
8. The app stops your test run and sends the data.
9. You roll out, look at your data and start the next test or the next setup.

Finishing Process

Following your aeroTEST, you will do the documentation and evaluation in the aeroDATA. In the platform, your data is safely stored for you and you can track your progress.

- Click on this symbol to copy entered data of one column into the same column of the next setup > click *Save* after each setup
- Click *Analyze* to start the calculation of your data

[1] Optional > reduces the statistical measurement error and thus improves the accuracy of the measurement results

Feel free to contact us anytime if you have questions:
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