_RALLYMETER 01 | SETTINGS

(last rev. v8.5 05/2017)

We navigate to the SETTINGS section by pressing in the green icon at the bottom bar.

In this section we can adjust app preferences and perform important actions like rally hour and stage start times calculation.

GENERAL

- Correction per click: Distance to add or subtract each time we press the +/- buttons in the main screen.
- Distance to advise before average change: When to beep the sound to advise us of an average change.
- Beep each: A beep each x distance.
- Cross advise distance.
- Distance to change advanced/delayed colour (ONLY WITH SENSOR): We define the distance at which will change the background colour (red delayed, blue advanced).
- Distance to be considered zero (ONLY WITH SENSOR): Distance +/- which we plan to consider zero (2 default).
- Table mode increment (ONLY WITH SENSOR): The distance to predict passing time in TABLES mode stage.
- Start next stage when stop actual: Next stage will be put in autostart mode once we manually stop actual running one.
- Close cross advise automatically: Close automatically the cross advise when we pass the programmed advise distance without having to press any button.
- Manual end of stage (strongly recommended): When we arrive to the end of stage an advise will be shown with distance countdown and a button to press once we pass the end of stage. We will see then a summary of the distance we had, the theorical distance and the difference.
- Snapshot at the end of stage: Will create a screen capture and record it in our camera roll to be able to check later the end of stage data.
- Activate / deactivate countdown sound.
- Keep distance during autostart: If we have autostart activated waiting for stage start and for any reason we need to move the car before start rallymeter would accumulate this distance.
- Ask for recalibration in crosses: Advanced option that allows us to decide to recalibrate (dangerous!) depending on a cross reference.
- Advance/delay in seconds: Shows the data in seconds and tenths instead of meters/miles.

STAGE START TIMES

Designed to calculate the start times of all the rally stages. It's important that we fill ALL the stage link times in order to make it work correctly.

We are asked from – to stage, normally we will calculate all the stages (1 to 99).

We can anyway solve a situation in which the rally staff changes one stage start time. We can then edit the stage to fill the new start time and calculate the rest of the stages start time automatically. For example, stage 10 start time is modified. We will change it and then calculate from stage 10 to the end.

RALLY HOUR

We adjust the rally hour with the one provided by the organizer. We recommend to adjust with the button pressed and release just in the moment of sync.

CALIBRATION (not available in BASIC version)

Step by step calibration system, the easiest and most interactive calibration system in the market.

We can have up to 4 calibrations (C1 – C4). The first one is the calculated by the system, the other three can be customized to our needs of different calibrations for different road conditions and difficulty level.

SENSOR (not available in BASIC version)

Rallymeter blackBox is a hardware device that allows to receive one or two wheel sensor data and send it to your iPad/iPhone via Bluetooth 2.0 fast and precise without any receiver.
From Ipad3, iPad mini and newer. From iPhone 4S and newer.

If two wheel probes are installed rallymeter will use by default both to calculate distances. We can choose to use one or two sensors from inside the app. **If we connect one sensor only we must disconnect the unused sensor from inside the app.**

Each wheel can have up to 2 magnets/metal points for a faster data refresh. Magnets provide better sensivity. Sensors are inductive and work by metal proximity. When possible try to isolate sensor metal from car grounding. Please refer to blackBox schematic to see correct mounting. Note that the mounting distance between probe and metal is crucial, **the led in the probe does NOT guarantee correct mounting**, you have to respect the max 2mm distance to be sure it will work perfectly at higher speeds.

INSTALLATION

- Black and red wires to 12v – and +.
- blackBox brown to sensor brown
- blackBox blue to sensor blue
- Green – black wire sensor #1
- Orange – black wire sensor #2

All connections should be soldered and isolated to guarantee best performance.

INSIDE RALLYMETER APP

To connect to the blackBox:
- Be sure that the blackBox is connected to 12v
- Activate iPad/iPhone Bluetooth in case is off
- Launch Rallymeter
- Enter settings tab
- Enter **SENSOR** menu
- When we connect the device for the first time we need to press RESET BUTTON in the blackBox section to clear any other paired device.
- We can now activate blackBox switch and the app will search for the device.
- Future connections will not need to do RESET as our unique sensor ID will be stored. Only in case we need to connect to another blackBox we will need to RESET the device id.

GET REFS MODE (from v8.5)

Activates the reference record mode when training stages (ideal for Sport Regularity).

We activate the option and choose the stage to record references. We drive the stage slowly respecting the ideal car path and we press on the yellow button each reference we want to take. Up to 999 that can be retrieved in our stage data.

GPS

The GPS option allows us to use the GPS of the device (only 3G devices) as a distance meter.

It's possible to be used together with the wheel sensor, in this case we will be able to compare the distance of the GPS with the one provided by the sensor showing us the difference helping us to make some decisions.

We can use bluetooth iOS compatible receivers like Garmin GLO that improve precision and refresh rate that allows to be used as main distance measurement tool although the dependence on the satellite reception can not equal the blackBox systems.

The GPS can be extremely useful in case of mud, sand, snow/ice conditions where the wheel spins and does not send us correct information.

RESTORE
Delete rally data, deletes all the stages, averages and advises. Does NOT affect to calibrations or adjustments.
Reset APP: Restores APP to default settings deleting ALL rally data, adjustments ...

EXTRAS
Optional elements to improve Rallymeter

- Pilot mode: Allows us to clone the information in the hands of the co-pilot to another Apple device with synthetized information for the pilot. Distance, time, advance/delay, speed ... and even the roadbook photos!

  The process to use pilot mode is :
  - We need to have Bluetooth active in both devices.
  - We access to EXTRAS
  - We select Pilot screen mode in the pilot device
  - We select Send data to pilot in the co-pilot device and we wait until both devices connect. Once the button turns orange both devices are connected and we can go and select a stage.

- Complete version (BASIC only): Converts rallymeter basic to full.
- Detailed rally info: allows to see detailed information of all the stages, averages, advises we have entered to be able to check for errors. We can see the listing in the screen or we can send it via email to print or keep it.
- Roadbook 5 photos per stage: Up to 5 roadbook photos per stage (by default rallymeter allows us 2 photos per stage)
- Roadbook unlimited: Up to 99 roadbook photos per stage (by default rallymeter allows us 2 photos per stage)