

## RACE STUDIO 2 >>>



- Race Studio 2.15.01 - July 30th 2003
- Race Studio 2.15.00 - July 11th 2003
- Race Studio 2.14.14 - June 27th 2003
- Race Studio 2.13.13 - May 30th 2003
- Race Studio 2.12.12 - May 9th 2003
- Race Studio 2.10.10 - April 11th 2003
- Race Studio 2.09.09 - March 20th 2003
- Race Studio 2.08.08 - March 13th 2003
- Race Studio 2.07.08 - March 7th 2003
- Race Studio 2.07.07 - February 21st 2003
- Race Studio 2.06.06 - January 23rd 2003
- Race Studio 2.00.05 - January 10th 2003
- Race Studio 2.00.04 - November 4th 2002
- Race Studio 2.00.03 - October 31st 2002
- Race Studio 2.00.02 - October 10th 2002
- Race Studio 2.00.01 - October 7th 2002
- Race Studio 2.00.00 - Upgrade from last Beta release - July 25th 2002

### 2.15.01

#### Race Studio 2 Configuration

1. Managing of MyChron 3 Plus Suzuki and MyChron 3 Gold Suzuki
2. Fixed bug about clearing data memory of MyChron 3 Basic after download
3. Changed display configuration panel for M3 LOG & M3 Visor

#### Race Studio 2 Analysis

No changes since last release

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### 2.15.00

#### Race Studio 2 Configuration

1. Back to the old release number format
2. Fixed bug on which the track wasn't kept after the download
3. Introduced % and degrees measure units for potentiometers

## **Race Studio 2 Analysis**

1. Back to the old release number format
2. Fixed bug language settings for the analysis menu
3. Fixed bug crash during beacon shift
4. Fixed bug crash during DRK reopening while inserting math channels
5. Fixed bug view XY with zoom
6. Fixed bug while calculating split times (quicker)
7. Fixed bug dashboard steering wheel
8. Introduced calibration parameters in channels setting dialog

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## **2.14.14**

### **Race Studio 2 Configuration**

1. Managing of MyChron 3 Kart Extreme
2. Managing of thermoresistance PT100 sensor with EVO3 systems
3. Fixed problem with temperature sensors configured with Race Studio 2.12.12 and analysing data with older versions
4. Reduced flickering when dragging a window over Race Studio configuration main window
5. Fixed problem with default channel frequency for M3 LOG/VISOR and some ECUs
6. Fixed problem of Race Studio crash, trying automatic calibration of sensor with Drack and italian language
7. Fixed problem with measure units and custom sensors, when exporting and importing configuration
8. MyChron 3 Kart systems and MyChron 3 Car/Bike systems now have distinguished managing

### **Race Studio 2 Analysis**

1. Fixed bug afferring beacon dhift with M3-XG
2. Fixed problem with double conversion of cold junction on files downloaded by old loggers using RS\_21212 or later
3. Upgraded dialog to set measure unit
4. Tab management of analysis view was introduced

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## 2.13.13

### Race Studio 2 Configuration

1. Corrected sensor name and measure units while calibrating a potentiometer
2. Fixed a bug on dash configuration while changing M3 P/G logger
3. Improved management of measure units
4. AIM products help menu

### Race Studio 2 Analysis

1. Improved management of measure units
2. AIM products help menu
3. Managed a test import with wrong track selected
4. Reversed fill of test list in the main view

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## 2.12.12

### Race Studio 2 Configuration

1. Introduced a message that informs if MyChron 3 Basic doesn't store data when the user tries to download data from it
2. Fixed bug trying to erase memory of MyChron 3 Basic after downloading data: now memory is erased
3. Introduced management of M3 LOG

### Race Studio 2 Analysis

1. Fixed problems with management of japanese language
2. Fixed minor bugs of time compare view

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## 2.10.10

### Race Studio 2 Configuration

1. Fixed bug in MyChron 3 Basic data download with some new check introduced
2. Fixed bug cloning configuration: not all settings were cloned, someone was reset to default value
3. Fixed bug calibrating a channel with distance potentiometer sensor after it was set with a gear potentiometer sensor

4. Update finnish language

### **Race Studio 2 Analysis**

1. Introduced math channel GSum in AIM default file
2. Introduced math constant FTper sec in AIM default file
3. Fixed bug with the measure units stored at the start of the software
4. Fixed bug with (inches) vs (mm) in channels setup view
5. Fixed problem with japanese language support introduced while changing compiler version
6. The string "There are no items to show in this view" is no more present in empty lists
7. Canceled prefix "x\_" to identifiers name in math channels window
8. Fixed problem while exporting data to Excel in channels report view
9. Fixed bug with decimal digits in measure toolbar, every sensor has its digit number
10. Fixed measure unit for frequencies: "Hz" and no more "s"
11. New time compare view inserted
12. Improved printout errors management
13. Fixed bug in files shown with more than a test type selection criteria
14. Fixed bug with warm-up / race management in test properties window

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## **2.09.09**

### **Race Studio 2 Configuration**

1. Managing of MyChron 3 Gold CAR and of MyChron 3 Gold BIKE
2. Saving DRK file, for a MyChron 3, data are checked. If data are no good, DRK file is not created

### **Race Studio 2 Analysis**

1. Inserted "linear acceleration" and "max speed" default AIM math channels
2. Fixed problem with track manager: used to crash while opening in 2.xx.08 version
3. Fixed problem with translated tooltips. With any view different from main view, the tooltips were not translated

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## **2.08.08**

## **Race Studio 2 Configuration**

1. Managing of MyChron 3 Gold Car XG
2. Firmware date and version of logger are correctly shown in Logger Identification panel

## **Race Studio 2 Analysis**

No changes since last release

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## **2.07.08**

### **Race Studio 2 Configuration**

No changes since last release

### **Race Studio 2 Analysis**

1. Fixed bug offering vehicle trackwidth in car setup analysis, moreover this view now remembers last configuration
2. Fixed bug in lap replay while comparing two laps
3. Fixed bug on cursors in distance view
4. Fixed bug on steering wheel display in dashboard view; even this view stores the last configuration
5. It is now possible to translate tooltips, or hints, as they can be called
6. Fixed bug on math channels: they can be now used as a reference speed and to compute track map
7. Introduced the possibility to have math channels that self loads at the loading of a DRK file
8. Fixed database refresh problem when a new test is inserted
9. Fixed bug: channels of a math channels set just inserted weren't indicated as computable at a test channel command
10. Room of the "view only enabled" string was enlarged
11. Fixed bug: a smooth applied to a channel didn't apply to test toolbar
12. Fixed bug in split times printout
13. French language inserted
14. Portuguese language inserted, with brazilian flag in the selection dialog
15. Corrected CV -> HP for not italian languages

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## **2.07.07**

## Race Studio 2 Configuration

1. Corrected calibration curves for VDO sensors
2. Corrected bug about thermocouples online values for Drack logger
3. New USB driver, version 5.22, which supports Windows 2000 with Service Pack 3
4. MyChron 3 Gold (Car/Bike) now supports also potentiometers and Lambda sensors

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### 2.06.06

## Race Studio 2 Configuration

1. Introduced new airbox pressure sensor named X05SNAB00, existing one has been renamed X05SNAB01
2. Configs database is now splitted in two different databases to allow user introduce cfgs and AIM easily modify parts that do not involve user's cfgs without any possible damage to users cfgs.
3. Improved database upgrade procedure
4. Sensors:
  - VDO 0-2 Bar pressure
  - VDO 0-5 Bar pressure
  - VDO 0-10 Bar pressure
  - VDO 40-120 C temperature
  - VDO 65-150 C temperature
  - VDO 60-200 C temperature
  - Water temperature - Formula Renault 2000 DPS
  - Water temperature - Formula Renault 2000 AIM
  - Air temperature - Formula Renault 2000
  - Air pressure - Renault
  - Oil pressure - Renault

have been software calibrated with more points to get a higher accuracy

5. Now the DRK file stores correctly for all loggers the total run number and total split number
6. Fixed bug afferring languages in dialog window title
7. New contact us window
8. Fixed bug in pictures management
9. Fixed bug in curve computation for custom sensors
10. Online now tells users about a ADC counts top of scale
11. Dash ST1 & MyChron 3 Plus/Gold now let the user choose gear sensor type (no sensor, potentiometer or calculated)

12. Fixed some bugs in setup panel for EVO3
  13. EVO3 with Dash ST1 and MyChron 3 display let configure pressure or temperature on the first channel
  14. Fixed bugs on channels list for MyChron 3 Plus/Gold
  15. Fixed bug on scrolling list on several setup panels
  16. Enabled the system choice menu to let user change logger type without clicking on buttons on the main window
  17. New method for software version number
  18. Default channels names don't contain blank spaces because are illegal characters
  19. New acquisition frequency at 5 Hz
  20. For EVO3 default configuration for accelerometer is:
    - Acc\_1: lateral accelerometer
    - Acc\_2: longitudinal accelerometer
  21. Updated languages
  22. Solved bug in sensor list for Drack
  23. For Drack online debug visualization introduced
  24. Sensors:
    - Potentiometer distance
    - Mid zero potentiometer
    - Zero based potentiometer
- User can choose measure unit (mm, inch, %, degree) and are not automatically converted
25. Upgraded logical sequence pushing on Tab button in visualization configuration panels
  26. Now icons for title bar, application bar and desktop are equal
  27. For MyChron 3 Kart the default gear sensor is set to nothing, for MyChron 3 Car/Bike is potentiometer
  28. Downloading data: last introduced driver name, vehicle and championship are associated to the specific data logger
  29. In the panel to open background image file now you can see all supported graphic formats
  30. Solved a bug for MyChron 3 Basic: downloading data if there is only one stored lap longer than 30 minutes
  31. In calibration panel for EVO3 transmit button is enabled only after an effective calibration
  32. Solved a bug in mid-zero potentiometer calibration

33. For potentiometer distance, default maximum travel is set to 100
34. In channel configuration grid the parameters that user must set are orange coloured
35. Updated panels for inserting sensor parameters
36. There is no more default custom sensor
37. Upgraded sensor calibration procedure for EVO3
38. New import and export button in configuration panel

### **Race Studio 2 Analysis**

1. Improved management of reference speed with ABS speed sensor
  2. Introduced the possibility to compute the engine power curve
  3. Fixed some problems affecting channels colour management
- Fixed problem with test coming from a vehicle with broken speed sensor
5. Fixed a bug with right y axis plot
  6. New possibility to launch internet browser with a "contact-us" page
  7. Fixed some bug with the cursor plot and the values related to measure
  8. Introduced the possibility not to remap laps to the map length in distance plot
  9. New split report, improved speed and graph plot, introduced EXcel exportability
  10. Channels report is now available even with a graph format and it is possible to export to Excel
  11. Fixed problem with zoom of small sectors in frequency analysis
  12. Introduced the management of multiple set of tests and/or laps in main window
  13. Introduced import/export of math channels sets
  14. Possibility to manage/insert/delete more math channels at the same time
  15. Improved the computing capabilities of math channels

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### **2.00.05**

1. Updated calibration curves for Renault sensors:
  - Water temperature Renault AIM Junction Box
  - Water temperature Renault DPS Junction Box
  - Oil temperature Renault
  - Oil pressure Renault
  - Air temperature Renault



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#### 2.00.04

1. RS2A Fixed channels report bug: with the old release when user tried to pass from this window to the database manager window a general protection fault was generated.
2. Fixed bug with database upgrade with windows 98.

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#### 2.00.03

1. RS2A Database manager has now different icons for open and closed tests. Double click to toggle between test state.
2. RS2A Now a button into the database manager let user switch back to open plots (if open).
3. RS2A introduced the possibility to manage laps from the laps toolbar.
4. RS2A Rightclick on a plot show a menu that let users enable/disable all toolbars and database manager.
5. RS2A Introduced the possibility to open the measure setting window with a righclick on the measure item in the measure toolbar.
6. RS2A Measure setting window is now similar to all new windows in RS2A.
7. RS2A "Channels report" features now settable information for test channels, different test may be compared.
8. RS2A New settings possibilities for XY plots.
9. RS2A Comments introduced by users in test properties window are now properly managed, test properties window is no more similar to RS2.
10. RS2A Stores now graphs type settings, which are now settable with a toolbar botton for every possibility and no more with a single botton.
11. RS2A Database manager features now a new string "Show all" instead of "No selection set".
12. RS2A PAY ATTENTION whenever you may want to downgrade back to 2.00.02: before uninstall 2.00.03 run it by adding a "downgrade" command after the executable name in desktop icon properties.
13. RS2A Fixed bug that let user insert zero length test names into test properties window.
14. RS2A Fixed bug affering math channels insertion in tests from a MyChron3 standard.
15. When selecting a new configuration measure units are stored and used for every new configuration.
16. Default obscuring time is now 8 seconds.
17. Logger choice menu has been reactivated.

18. Fixed bug offering data downloading into a folder not on hard disk.
19. Fixed bug that during calibration inserted any read configuration into configuration database.
20. Inserted measure units choice for potentiometers (now features even % and degrees).
21. Fixed bugs offering custom sensors for dash st1.
22. Fixed bugs in images management in main RS2 interface.
23. System management window status bar now shows vehicle name for dash st1.
24. New dash st1 with "A" boards are now properly managed.
25. Dash st1 shows proper value for speed after download.
26. Zero length names are no more available for configuration names (possible bugs with cfg database).
27. Inserted latest translated strings available for german and japanese language.
28. DRK files now features even physical channel set for a measurement.
29. It is no more possible to select gear sensor type. Loggers that feature such a possibility are supposed to have a proper firmware developed installed (such a choice is available only from display).
30. "/5" ratio is no more available for dash st1 engine rpm sensor.
31. Fixed bug offering custom sensor identification reading a cfg from logger.
32. Fixed bug offering Renault oil temperature sensor (measure unit was editable and now is fixed).
33. Updated custom sensor plot.
34. Custom sensor curve is automaticaly computed and shown even when saving the sensor.

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## **2.00.02**

1. RS2A Fixed bug: possible mismatch between measure toolbar and measures displayed on a plot with a test just opened.
2. RS2A Fixed bug: problems in printing test measure names in time and frequency plot.
3. RS2A Fixed visibility callback bug of measure settings window.
4. RS2A Now is no more possible to open map, distance plot, split times, track report, lap replay if a speed channel is not available.
5. RS2A Fixed a problem with beacon shift: if (mph) beacon was shifted of xx meters and not feet.
6. RS2A Difference values in graphical compare of split times was for a bug disabled, fixed.
7. Now cursor is arrow again in main window of RS2.

8. RS2: is no more possible to select two buttons at the same time in the main window.
9. Fixed the bug affecting wheel circumference for Myc3PlusGold Auto and MPH settings.

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### 2.00.01

1. Fixed the problem with channels from custom sensors displaying zero values.
2. RS2A doesn't create backup files from drk open.
3. Improved error messages management during file open/close operations.
4. Measures and laps that are shown are now stored into drk files for further opening.
5. The function that computes the best lap was improved (Considers the mean value).
6. Fixed lap number and run number management.
7. Improved beacon shift routines.
8. The software remembers if windows are maximized.
9. Modified the routine that generates default colors file (AIM\_RSCOLORSBIN.INI) at the very first installation.
10. Fixed the bug that generated wrong vertical strings in plotted pages.
11. Fixed the cursor move in distance plot (Forward and backward).
12. New dockable toolbar to manage measures and laps.
13. New dockable toolbar to view the entire test history.
14. New main window featuring both database and lap management.
15. Fixed some bugs in map computation window.
16. Fixed bugs affecting XY plot setup, XY plots have now points with a bigger size.
17. Histograms have now values for each single bar.
18. StatusBar info were upgraded.
19. New way to manage plots opening: click the toolbar to open the window if closed or to show it if hidden.
20. Fixed bugs affecting the window used to set measures properties.
21. Split report are now printable.
22. Fixed: error downloading data for data with many sync errors.
23. For MYCHRON 3 Standard: fixed bug on best time, best lap, best run

downloading data.

24. For MYCHRON 3 Standard: fixed bug on magnetic lap signal. Now first and last lap data are right.

25. For MYCHRON 3 Standard: logger information added to file .DAT and .DRK.

26. For MYCHRON 3 Standard: fixed bug on split time number.

27. For EVO3: dialog box for display configuration has been rebuilt and controls for gear sensor choice have been added.

28. For EVO3: configuration just transmitted to logger is readed and verified.

29. Fixed bug on verifying firmware version number bigger than 2.00

30. Fixed bug on editing floating parameters.

31. Inserted control on existing files saving downloaded data.

32. Now in downloading data dialog "Save" button saves data file and exits.

33. Now in downloading data dialog "Test comment" can be 199 characters long. (Before it is truncated at 40 characters)

34. Fixed bug on Race Studio menu: changing language in Race Studio Analysis and switching to Race Studio configuration.

35. Updated language database and added new Japanese and German strings.

36. Fixed bug in 'logger manager - online view' on speed value in mph units.

37. Now in channel configuration custom sensor sampling frequency is not limited to 10 Hz but to maximum value of logger.

38. Fixed bug on setting ABS speed sensor parameters.

39. Now reading configuration from datalogger, information on sensor type (ST code) are saved in database.

40. For MYCHRON 3 Plus or Gold: fixed bug downlading data several times without closing Race Studio and saving data files in a new custom folder.

41. For MYCHRON 3 Plus or Gold AUTO: upgraded alarm led configuration from Race Studio.

42. It's no more possible to open distance and time plot at the same time.

43. Run number is available only for tests downloaded with software version  $\geq 2.00.01$  and for following hardware/firmware:

MyChron3 standard firmware  $\geq 2.16$

MyChron3 plus/gold firmware  $\geq 1.37$

44. "Lap times analysis" window is now available even if open tests do not have the speed channel and/or the map is loaded.45. Fixed bug: now you can set gyro as channel sensor with EVO3 logger

46. Fixed bug: if you read a configuration from a logger, switch a channel from disabled to enabled, then

transmit configuration to logger, channel is correctly enabled.

47. Fixed bug: If you go in "Online" then push "ESC" button on keyboard, now temporary configuration is automatically deleted.

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## **2.00.00 - Upgrade from last beta release**

1. Fixed two problems dealing with installation, one solved with some Microsoft components (Jet40Sp3\_Comp.exe and MDAC\_TYP.exe) we supply on CD, the second created during a RS2 upgrade on some operating systems. What customers used to see was nothing starting after doubleclicking the icon on the desktop.
2. Better AIM\*.ini files management, release 2.00.00 is the last version that has to overwrite some configuration (AIM\*.ini) files on customer's pc. Further releases will leave customer's pc as is.
3. Measure units now have to be set only one time, the very first time user does it the setting are stored and used.
4. Introduced help feature, still using Acrobat Reader (supplied version >4.0), and customizable for any language. Help is supplied only in CD installation, will be downloadable separately on the web.
5. Modified some settings in math channels. Some default formulas were wrong, some constants as well.
6. Introduced a better management interface for map files.
7. New interface for beacon shift (now laptimes aren't being changed during beacon shift).
8. Car setup view, Dashboard view, track report view now do not need the old odd configuration dialog. Those views are editable within the window itself or by rightclicking the window.
9. Histograms (time representation) now show bars with proper values.
10. It's now possible to choose values lower than 3 for plot line width.
11. During map creation the software asks whether to replace a file with the same name eventually in track folder.
12. The whole software (RS2+Analysis) cannot be run if the operating system does not let the software manage the databases. Anyway user is prompted that there is a problem and helped to understand where the problem is.
13. Now it is NOT possible to open a drk file if it is not imported into test database.

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