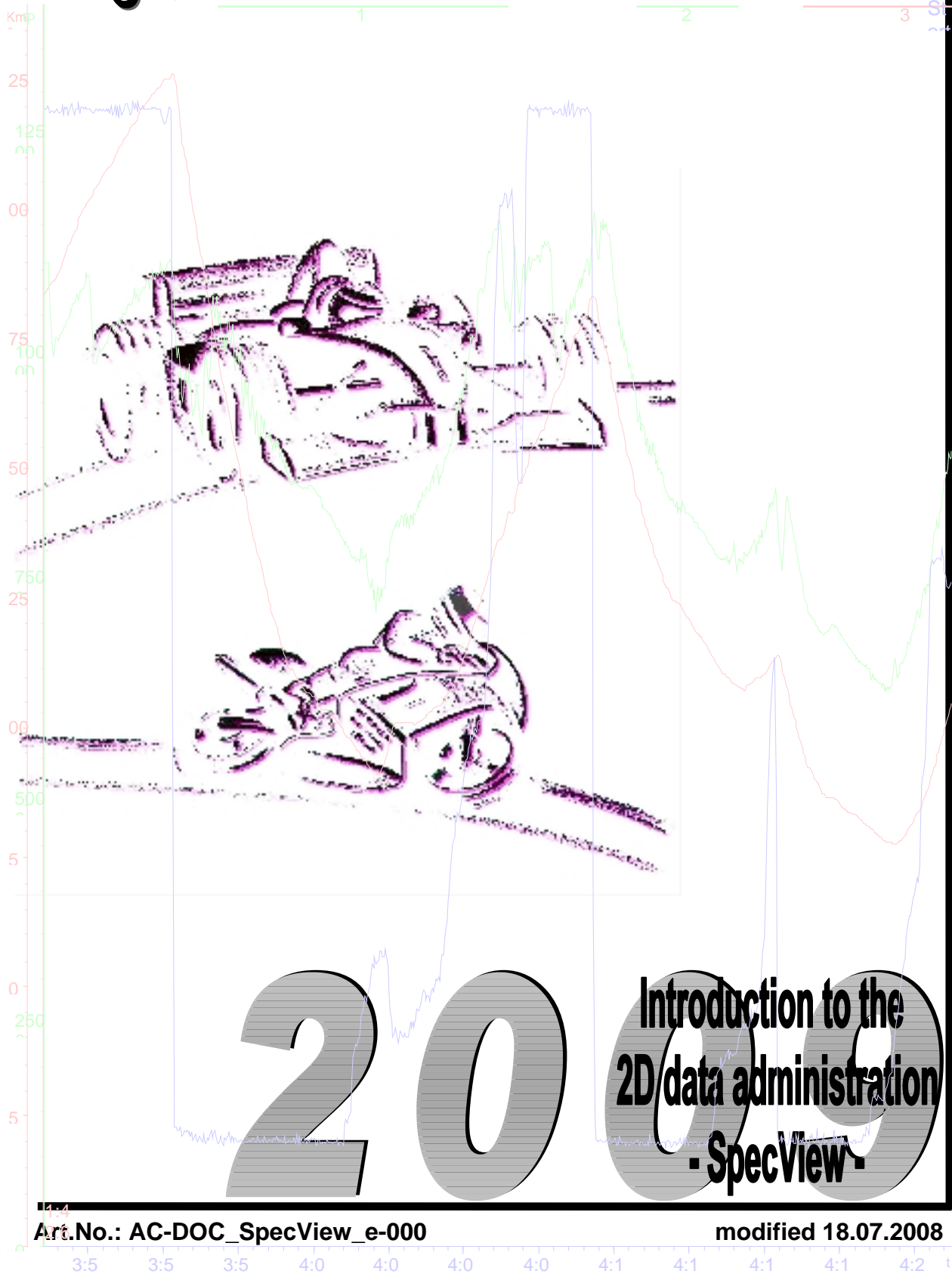


- English -



Your NOTES:

| Spec View Informationen Version 10.1.1.1 | | | | | | | | |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| Datei Permanente Info Gruppen Einstellungen Hilfe | | | | | | | | |
| GRUPPEN | GEA7A01.HED | GEA7A03.HED | GEA8A01.HED | GEA8A03.HED | GEA8A04.HED | GEA8A05.HED | GEA8A06.HED | |
| dist (m) | 16206 | 28364 | 12222 | 16219 | 20355 | 12211 | 20271 | |
| Run (sec) | 789 | 1903 | 512 | 1084 | 1022 | 1230 | 1109 | |
| Run recording (s) | 472 | 784 | 345 | 447 | 536 | 380 | 541 | |
| Start of download | 07.10.2002 10:14:12 | 07.10.2002 10:56:54 | 08.10.2002 10:19:04 | 08.10.2002 10:57:33 | 08.10.2002 11:14:43 | 08.10.2002 11:35:22 | 08.10.2002 11:56:42 | |
| Number of errors | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| System id | 11H03F67A62 | 11H03F67A62 | 11H03F67A62 | 11H03F67A62 | 11H03F67A62 | 11H03F67A62 | 11H03F67A62 | |
| Programversion | 10.6.1.1 | 10.6.1.1 | 10.6.1.1 | 10.6.1.1 | 10.6.1.1 | 10.6.1.1 | 10.6.1.1 | |
| Fastest lap | 1:43.127 | 1:40.025 | 1:40.815 | 1:40.605 | 1:39.090 | 1:39.665 | 1:38.650 | |
| 0 | 2:13.942 | 2:27.345 | 1:55.873 | 1:56.733 | 1:56.055 | 2:10.232 | 1:57.813 | |
| 1 | 1:46.135 | 1:41.358 | 1:40.815 | 1:43.063 | 1:39.090 | 1:39.665 | 1:39.332 | |
| 2 | 1:43.127 | 1:40.570 | 2:07.710 | 1:40.605 | 1:39.175 | 2:30.343 | 1:38.948 | |
| 3 | 2:12.795 | 1:40.145 | | 2:05.920 | 1:39.225 | | 1:38.650 | |
| 4 | | 1:40.160 | | | 2:01.815 | | 2:06.218 | |
| 5 | | 1:40.025 | | | | | | |
| 6 | | 2:13.838 | | | | | | |
| Rim fr. | 3.5" | 3.5" | 3.5" | 3.5" | 3.5" | 3.5" | 3.5" | |
| Rim rear | 6" | 5.5" | 5.5" | 5.5" | 5.5" | 5.5" | 5.5" | |
| Tire fr. | 584 | 584 | 584 | 584 | 584 | 584 | 584(N) | |
| Tire rear | 701/180 | 701/185 | 701/180 | 701/180 | 756/180(N) | 756/180 | 587/180(N) | |
| Pressures | 2.1/1.8 | 2.1/1.8 | 2.1/1.8 | 2.1/1.8 | 2.1/1.8 | 2.1/1.8 | 2.1/1.8 | |
| Tracktemp. | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| Tipo | Oehrlins/Kit | Oehrlins/Kit | Oehrlins/Kit | Oehrlins/Kit | Oehrlins/Kit | Oehrlins/Kit | Oehrlins/Kit | |
| Spring | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | |
| Preload | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| Oil | 105/7.5 | 105/7.5 | 105/7.5 | 105/7.5 | 105/7.5 | 105/7.5 | 105/7.5 | |
| Height | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Compression | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| Rebound | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| Tipo | Bitubo | Bitubo | Bitubo | Bitubo | Bitubo | Bitubo | Bitubo | |
| Height | 335 | 335 | 335 | 335 | 335 | 331.5 | 339 | |
| Spring | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| Preload | | | | | | | | |
| Compression | 3/6 | 3/6 | 3/6 | 4/5 | 4/5 | 4/5 | 4/5 | |
| Rebound | -12/-4.5 | -12/-4.5 | -12/-4.5 | -12/-4.5 | -12/-4.5 | -12/-4.5 | -12/-4.5 | |
| DayKm | (16km) | (56km) | (12km) | (57km) | (77km) | (89km) | (109km) | |
| EventKm | (16km) | (56km) | (207km) | (251km) | (271km) | (283km) | (303km) | |
| YearKm | (1428km) | (1468km) | (1620km) | (1664km) | (1684km) | (1696km) | (1716km) | |

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Introduction

The program SpecView helps you to deal with special documentation files that belong to every measurement done with the 2D equipment. These files are generated for every download (=reading the data from the datalogger).

The different steps the user should take previously you may find in the overview [flowchart](#) at page 7.

In the following we will refer to the files as "**SpecSheet**-" or "**Header**-" files.

In the files you can gather all the information that is relevant for the circumstances and special set-up for your measurements and events (e.g. the settings of a bike during a race weekend or testing). The user of the program – the engineer, the data recording man, or the mechanic, is in charge of the maintenance and integrity of the data. And you are able to eliminate a good part of additional paperwork for documentation.

Groups organize the details of the information.

The communication tool WinIt generates the files automatically at [download](#) time - in the moment the user decides to read the stored data from the 2D datalogger. The files have the identical name as the corresponding measurement with the file extension *.HED. (from "Header").

You define the name of a measurement by three parameters. They are:

- The name of the logger (set in the program WinIt)
- The "Logger Mastername" (defined at the start page of WinaRace)
- And a consecutive number (attached automatically by WinIt)

Detailed information about the generation of the name of a measurement you may find in chapter 1.5 about [WINIT](#).

Downloading is done in three steps:

1. Reading of the compressed raw data
2. The pre-processing (Separation of the data blocks)
3. The generation of the final measurement data for the analyse tool and the creation of the header files for SpecView (Names are generated as described). On page 7 you find a [flowchart](#) resuming the creation of the header files and the **previous** preparing steps the user should take!

In the following lessons about SpecView we usually will make reference to one of the three demo data sets, which are generated automatically with every installation of the 2D software. You will find them in the directory <C:\Racedata\Demodata>.



Please note: By default the demo data are installed on the same disk where the operating system is!

Having a look at the demo data sets you will find the following directory structure:

- <..\RACEDATA\DEMODATA\BIKE.97>
- <..\RACEDATA\DEMODATA\CAR.98>
- <..\RACEDATA\DEMODATA\FORMEL3.99>

Initially those directories define your active directory for your actual event. Data generated by a download therefore will be written to it. The user should take care to create for every event its own directory. We recommend this procedure to help to organize your data. At racing it is most common to use the name of the track or event plus the year.

In the following we will refer to the data organized in that way as an **EVENT**.



Please note:

Don't create the event directory manually. Use exclusively our software to create an **EVENT** as explained in the chapter 1.4.1 about [WINARACE](#). By that mean you assure to generate really all the necessary files for a consistent data set.

The measurement data are located within the **EVENT** directory. They are organized as sub-directories with the extension [MES]. The analysing software will use those data files.



Note:

1. Former generations of 2D data loggers can only communicate with the MS-DOS communications tool "Proglit". For the analysis you can use the programs under the two operating systems indistinctively. However we do recommend using the Windows tool due to its higher comfort, ease of use and wider range of functions. To use the MS-DOS data under Windows you have to convert them into the new data structure in [MES]-directories. The conversion tool is described in chapter 1.5.4 of [WINARACE](#).
2. Customers with recent data loggers should always work with our Windows software suite.

Please observe the restrictions the used operating system is setting in respect with the hardware you are using: Windows XP for example is very ill behaving with our 2D MS-DOS software and hence with older loggers. On the other hand we cannot recommend Windows ME or Windows NT if you plan to use the USB download facility with the actual generation of loggers.

Let us have a look at the file <DEMO.HED> from the **EVENT** directory <Bike.97>. Please open the file with SpecView or with a simple text editor as Notepad. You will find the data organized by groups. One of them has the name [DOWNLOAD].

```
[DOWNLOAD]
meter ON=110351
Count32=0
Run total (s)=2399
Run recording (s)=2457
Start of download=30.06.01 15:56:19
End of download=30.06.01 15:58:55
Number of errors=4
Time to decompress=0.0 sec
System id=11H0240F062
Programversion=1.0.0.5
Userlevel=Profi
```



Observation: The first entries (here "meter ON" and "count32") are generated from the active counter channels of the logger. The first counter channel refers to the digital channel1 (D1) and is usually used for the speed and by default for the distance. So you might name the first counter channel for example "dist. m" and the third one "dist. m. rear" if it is gathering the data from the rear wheel. You program the names with Winlt. The first counter channel is also used for the MILEAGE function.

The program Winlt generates this group during the download and writes it into the corresponding header file. Here you find quick information about the last run and the download process.

As mentioned previously the program Winlt generates the SpecSheet files that our program SpecView will use. Initially it generates by default the following four groups

1. [DOWNLOAD] **B** Overview about the run and the download
2. [LAPTICES] **B** Lap times and quickest lap.
3. [WEATHER] **B** Actual weather data.
4. [COMMENT]

You can generate quick comments relating to the measurement from any of the software modules (SpecView, Winlt or Analyzer) with the shortcut <ALT + Q>.

The rest of the groups will be copied from a PERMANENT INFO file the user has created – and hopefully maintained – for every single datalogger! (See also the [flowchart](#) on the next page). Additional data will be generated by the 2D Analyzer (see chapter 1.3.5) on user request.



Note:

Information out of the groups of our SpecSheet file as for example from the group [FRONTSUSPENSION] (all items related to the front suspension) can also be used in the program CalcTool. This program forms part of the 2D software suite (scope of delivery depends on your software version) and generates additional calculated channels. Use any entry in a group to define the parameters you want to use as a variable in the CalcTool.

The following table gives an overview about some existing groups that might be used by the CalcTool:

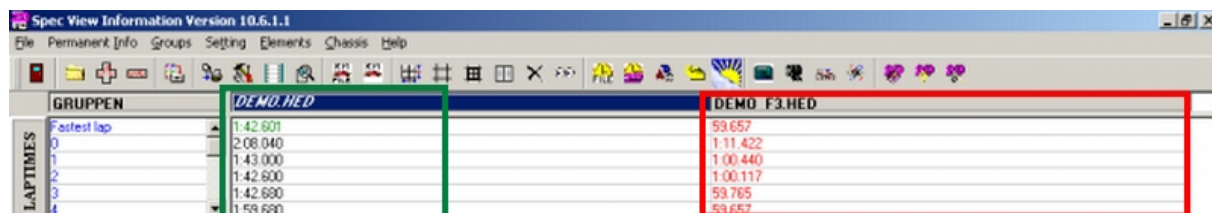
| Groupname: | Reference \ Description: |
|------------|--|
| [BIKE] | See file *C:\RACEDATA\DEMODATA*_ATA.HED |
| [FORKSET] | See file *C:\RACEDATA\DEMODATA*_ATA.HED |
| [SHOCKSET] | See file *C:\RACEDATA\DEMODATA*_ATA.HED |
| [SETTING] | See file *C:\RACEDATA\DEMODATA*_ATA.HED |

* Please note that the letter of the drive depends on your actual installation!

Example:

Here you put the actual spring stiffness of your front fork. Have a look at chapter 3.2 of the handbook about the [CALCTOOL](#) to see how you can take advantage from the feature to understand quickly the impact of the different settings and to approach an optimal one.

You can load up to 15 different files at once and can see up to 7 different groups at a time from the different *.HED files. The loaded files are compared to first *.HED file (1st from the left) as the reference and differences are then highlighted with a **red font**. All the manual modifications of the data are shown in **green font**. The names of corresponding modified header files are additionally shown in **italics**.



| GRUPPEN | DEMO.HED | DEMO F3.HED |
|-------------|----------|-------------|
| Fastest lap | 1:42.601 | 59.657 |
| 0 | 2:08.040 | 1:11.422 |
| 1 | 1:43.000 | 1:00.440 |
| 2 | 1:42.600 | 1:00.117 |
| 3 | 1:42.680 | 59.765 |
| 4 | 1:59.680 | 59.657 |

In addition to the header files belonging to the individual measurements exists a second type of *.HED files: **the permanent info files**. The user creates these files according to his needs. They contain all the information and settings that should be documented to assure to analyse his data thoroughly. Therefore you should design them previously to any measurement or at the start of the season. We call them “permanent” files because they contain the information that has to be **always-up-to-date**.

These data are used to generate the user-defined part of the header files.

There are some naming conventions for the creation of the permanent files.

The following flowchart explains the procedure:

Bigger organizations usually use more than one vehicle. In the following example we suppose a team running 2 bikes. Each of the bikes is equipped with a logger for data recording. The user defines by the logger name (in WinIt) and the master name (main page WinaRace) how the measurement will be called. More details in the [WINIT](#) manual, chapter 1.5.

To organize us:

We name the logger of the first bike within WinIt : **<BikeA>** and the other one is: **<BikeB>**.
As master name we choose at the WinaRace main menu from the list the entry **<1F_>** (Stands for 1st free practice!). The **underscore(s) “_”** will be replaced by the last letter(s) of the logger name.

Downloading data, WinIt will create in the actual EVENT directory the following *.MES directories:

1st. Download:

For bike 1: <1FA01.MES> *1Fà Mastername, Aà Last letter from the logger, 01à 1st download*

For bike 2: <1FB01.MES>

2nd. Download:

For bike 1: <1FA02.MES>

For bike 2: <1FB02.MES>



Please note:

WinIt will generate a consecutive number for every new instance of a download with the same mastername/loggername combination!

Now WinIt checks the availability of permanent info files for the used loggers. The permanent files need to comply with the following naming conventions:

Prefix “P_” + “**logger name**” + file extension “. HED”

For bike 1: <P_BIKEA.HED>

For bike 2: <P_BIKEB.HED>

These files have always to be located in the parent directory of the actual EVENT!

With the two different source files as input WinIt generates the header files for each of the downloads:

At the 1st download:

- The content of <P_BIKEA.HED> will be copied into <..1FA01.MES\1FA01.HED>
And for the 2nd. Bike from <P_BIKEB.HED> into <..1FB01.MES\1FB01.HED>
- WinIt generates the group [DOWNLOAD]
- Analyzer generates the group [LAPTIMES]
- If there is a [Weather.ini](#) file the group [WEATHER] will be created.
- The MILEAGE entries are updated

At the 2nd Download:

- The perhaps modified groups from <P_BIKEA.HED> go into <..1FA02.MES\1FA02.HED>
And the same game for bike 2: <P_BIKEB.HED> to <..1FB02.MES\1FB02.HED>



The user has the additional possibility to generate a [COMMENT] group with information about the measurement using the shortcut <ALT+Q> from WinIt, Analyzer or SpecView.



Now you can load the generated header files into SpecView for comparing, analysing, printing or also modifications!



Please note:

The user should prepare previously to the race season or other measurements the permanent info files tailored to his individual needs. You can do that using either SpecView (more comfortable and safer –supported -, see also chapter 1.3.1.2) or a simple text editor like Notepad.

If you use a text editor to create the permanent info file you should know:

- The group name has to be put in square brackets []
- Entry identifier and entry value are separated by "=" !
- Identifier have to be unique within one group

As example see the [DOWNLOAD] group



The semicolon ";" indicates a comment. All that follows the semicolon in a line will be skipped by SpecView and not be shown!

You should include into the permanent info files all the groups of information and the environmental factors, which are relevant to understand the set-up of the vehicle. The files have to be present before the first download. They determine the quantity and quality of the data SpecView will use in the future. You find an example for an info file in the standard software installation at:

<...\RACEDATA\DEMOMDATA\IP_ATA.HED>

If you want to use the information as a reference, for example to compare with former years or different tests take care to maintain the information as complete and up-to-date as possible. If possible you should document all information instantaneously. SpecView will give you an optimal support for that task.

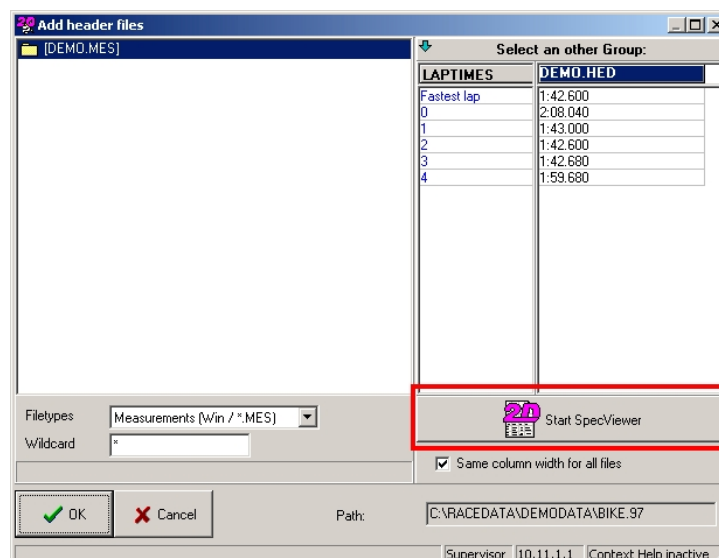
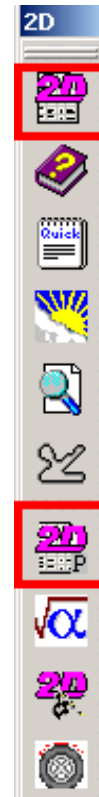
Please study the following chapters carefully to get optimal, quick and efficient results.

1 – Getting started with the 2D data-administration tool – SpecView

1.1 How to start the program

You have several possibilities to run the program SpecView:

- From the top of the 2D toolbar with the actual measurement:
- Run SpecView showing all permanent info files
- With the shortcut **<ALT + I>** at the main menu of 2D WinaRace
- At the select-measurement-window of WinaRace.
Push the button **<Select>**. You find the following window:



1.2 The configuration of the desktop

1.2.1 The toolbar - the main control element

Before working with the program SpecView please read the following chapters carefully. We will explain the most important functions and options the program is giving you to maintain your data fast and efficiently. As in all the other 2D software modules you can start all the important functions from the main toolbar. You find the toolbar at the upper margin of the window. But if you like you dock it also to the right or left margin – put the mouse pointer on the toolbar, keep the left mouse button pushed and drag the toolbar to the position you wish.

Other functions you reach – depending on the context - with a pop-up menu right-clicking the mouse. Next you find the windows with a short explanation for the different buttons and also the most important short-cut keystrokes.



Overview of the toolbar buttons from left to right:

1. Close SpecView. Confirm modifications before storing them!
2. Read additional file <CTRL + O>
3. Add active file again (duplicate, compare) <CTRL + A>
4. Remove active file <CTRL + DEL>
5. Save all files after confirmation <ALT + S>
6. Print selected groups <ALT + P>
7. Change printer – the default printer will not be changed
8. Report administration <F6>
9. Load all permanent info files <ALT + R>
10. Modify MILAGE of actual file <ALT + M>
11. Modify MILAGE of actual group
12. Change table view: Equal column width and equal group height <ALT + A>
13. Change table view: Expand all groups completely <CTRL + S>
14. Change table view: Show all group text in full width <CTRL + D>
15. Change table view: Same column width for all loaded files!
16. Hide active group
17. Show all hidden groups again
18. Sort files by file date/time
19. Sort files by 2D download date/time (data from group download)
20. Sort files alphabetically (file name)
21. Load all files that match the wildcard name
22. Load the <Weather.ini> file – Update the actual weather data



The next functions require:



The program CHASSIS + valid CHASSIS data files + a CHASSIS software license.

Please note: assign the correct path for the CHASSIS data à at the main menu of WinARace under Settings / Folders

23. Run the CHASSIS program with the active file in the <CALCULATION> mode
24. Run the CHASSIS program with the active file in the <MOVIE> mode
25. Run the CHASSIS program with the parameter <BIKE>.
26. Run the CHASSIS program with the parameter <FORCE>.
27. Information about SpecView + Complete list of shortcuts (printable) + 2D help file (PDF format) + information about the version of SpecView
28. WHAT'S NEW in SpecView? – Change log
29. ALWAYS Up2Date... Information about the system, the software and 2D.

1.2.2 The first look at SpecView

Start the program SpecView as described in chapter 1.1 ([How to start the program](#)).

If have installed the program the first time the desktop will have the default format shown below. From that moment the software will keep all your settings of positions, geometry, columns and rows in the windows registry and will show at program start always your **most recent layout** of the desktop.



Tip: In the chapter 1.3.3.3 (Define your start layout) you find how to start SpecView always with your individual layout.

The screenshot shows the SpecView software interface with the following labeled components:

- Actual version number of SpecView**: Points to the title bar text "Spec View Informationen Version 47.1.1.1".
- Main menu of SpecView.**: Points to the menu bar containing "Datei", "Permanente Info", "Gruppen", "Einstellungen", and "Hilfe".
- Run SpecView with this fixed tool button.**: Points to a specific icon in the Windows taskbar.
- Name of the groups**
(You can open up to 7 groups at a time - See also the Introduction): Points to the "GRUPPEN" column header.
- Toolbar of SpecView. Drag it with the left mouse button pressed.**: Points to the toolbar located below the menu bar.
- The entry Identifier**
(See also the Introduction): Points to the "SEKTIONEN" column header.
- The entry values**
(See also the Introduction): Points to the "LAPTIMES" column header.
- Name of the active layout**: Points to the "LAPMETERS" column header.
- Name of the active measurement**
File Date/Time
Modified/Not modified: Points to the status bar area at the bottom left.
- Name of the active group.**: Points to the "TIMEINFO" column header.
- User level**: Points to the status bar area at the bottom right showing "S. MARTIN | Profi".

1.3 How to access quickly and effectively the requested information

- To work efficiently SpecView provides a “report function”. It opens you a quick and focussed access to the data required at a given moment. You can prepare your special reports previously to the event, tailored to your needs.



The chapter 1.3.2 (Administration of [report](#) files) gives detailed information

- You find a layout function to define which groups and number of entries of that group you want to see for a special purpose. Look only at the elements you need at that moment!



Closer information in chapter 1.3.3 (Load and save individuals profiles – the [layout](#) function)

- Prepare your permanent info files. Here you gather all the information about the set-up and parameters of your vehicle and the test. These files contain the basic information to create the SpecSheet files at download time.



Chapter 1.3.1 (Administration of [permanent](#) info files) tells the details

- The number of groups within a SpecSheet file can be very big. The printing function allows you to print just the groups you need right now. You can use either a previously defined [report](#) file or you select manually the groups to be printed. This concept is targeted towards different user groups (as technician, engineers or test-personnel) to focus on their individual information needs.



The chapters 1.3.2.2 ([Printing](#) reports) and 1.4.3 (The function key <F3>–Select [print mode](#)) provide the details.

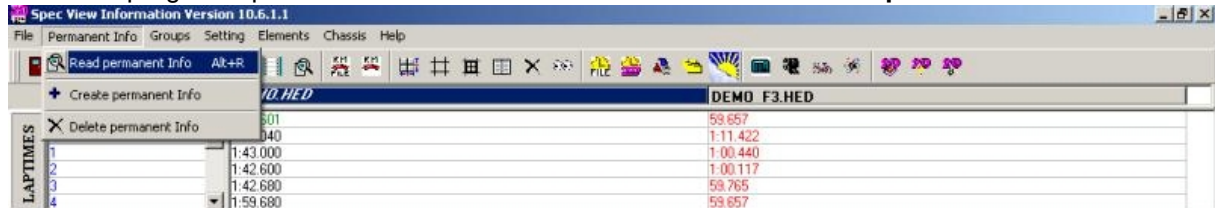
1.3.1 Administration of permanent info files

The permanent info files have to be located at the parent directory of the actual data directory (also called the EVENT directory). To be recognized correctly by SpecView they need the "P_" prefix in their filename. The file extension is the same as the rest of the SpecSheet files: (*.HED).

1.3.1.1 Read permanent info files

You have the following ways to load a permanent info file:

- In the program SpecView at the main menu **<Permanent Info \ Read permanent info>**



- Or in the program SpecView with the shortcut key **<Alt + R>**



- Clicking on the icon at the 2D toolbar

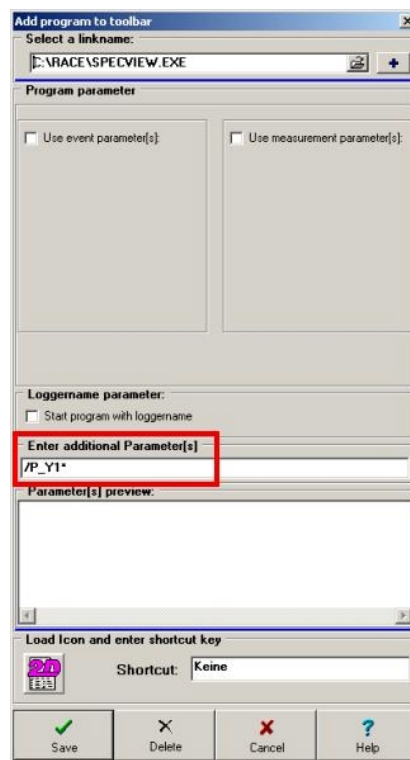


Tip: In all this cases you will load all existing permanent info files (of that directory). If you are running at the same time a greater number of vehicles or you have different user groups working with the same database you might wish to load only some selected permanent info files. You can specify them with help of wildcards as follows:



- Right-click the permanent info icon of the tool

- In the window that opens you modify the entry: **<Enter additional parameter(s)>**

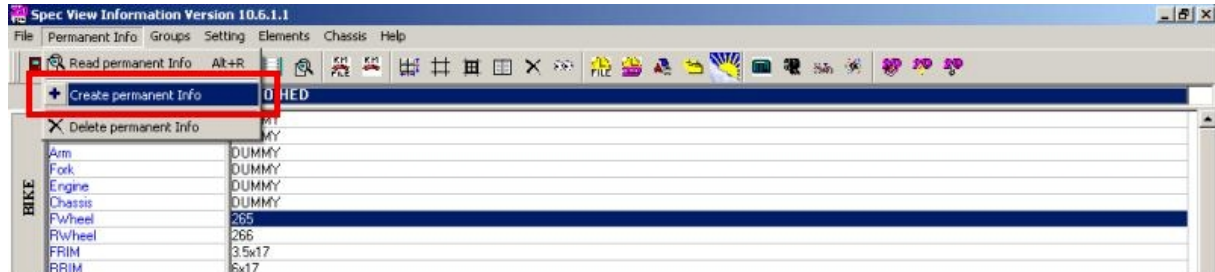


Example: You want to load only all the permanent info files that contain the string "P_Y1" in their filename. Just enter **/P_Y1*** and confirm with the button **<Save>**.

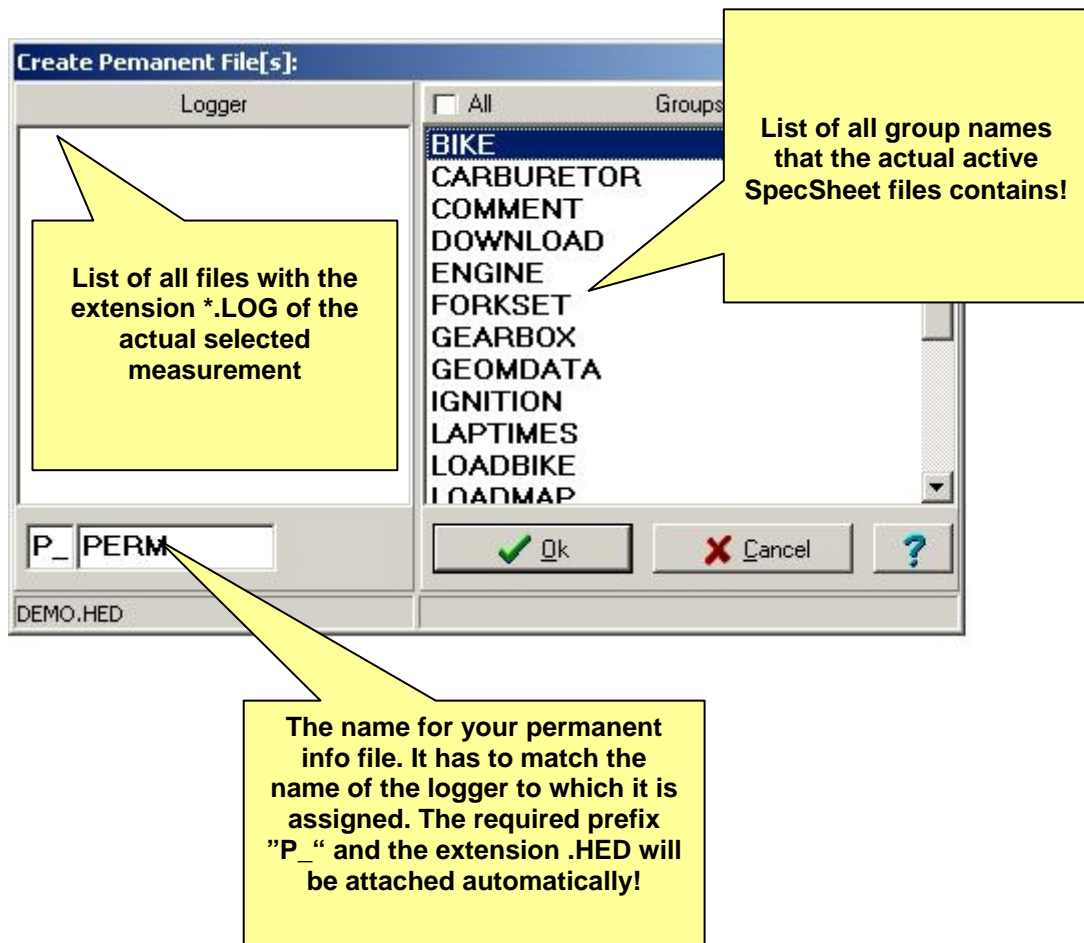
1.3.1.2 Creating permanent info files

You can create permanent info files directly from SpecView.

- Select from the main menu of SpecView: **<Permanent Info / Create permanent Info>**



- You get the following window:



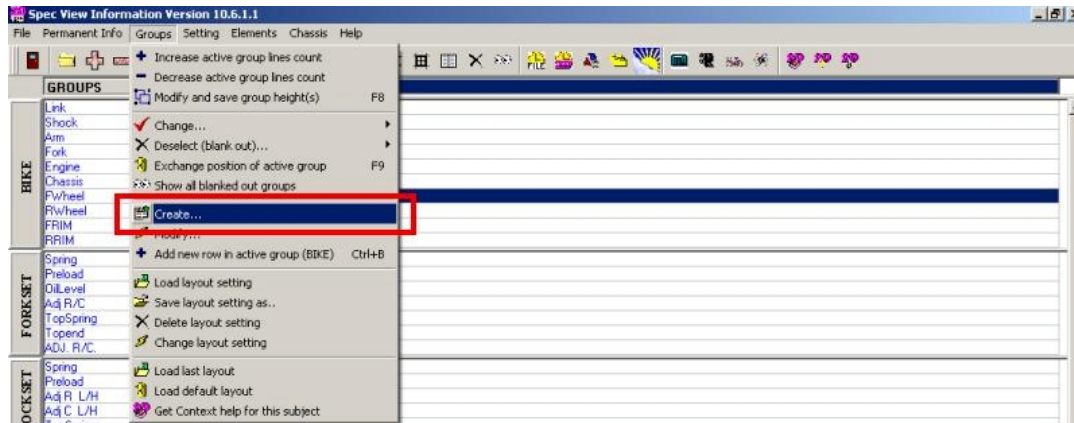
- Confirm your selections with the **<OK>** button



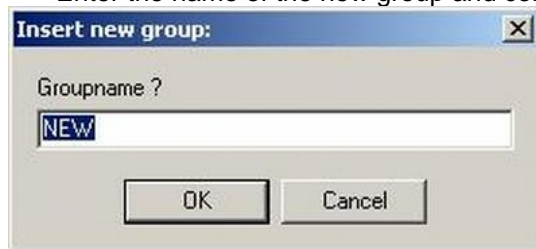
Attention: The list of the groups (right) contains exactly the groups of the actual active SpecSheet file. Check if you really have all the groups that you need. Before creating a new permanent file select first the file that includes all the groups you will require!!

If you need an additional new group you can add it directly into your permanent info file:

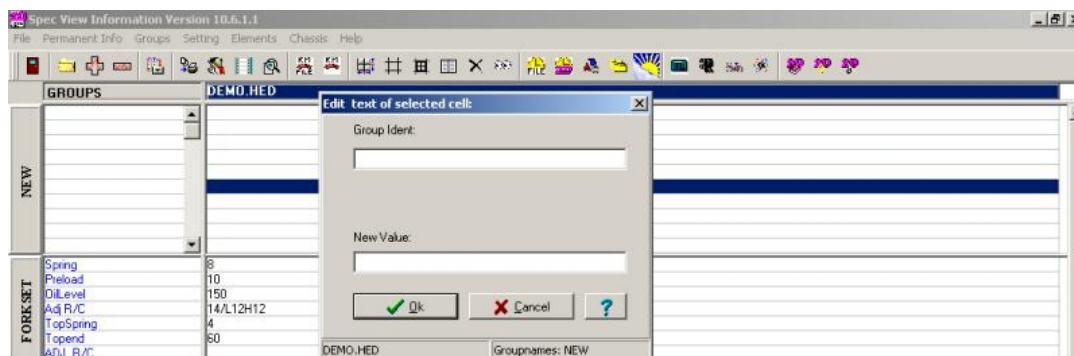
- Read the permanent info file you want to modify. See chapter 1.3.1.1 ([Read](#) permanent info files)
- Select then from the main menu **<Groups / Create>**



- Enter the name of the new group and confirm with **<OK>**



- Now you design your new group. Leftclick on the new group or use the **<Tab>** keys. Select a cell with a double-click or with **<F2>**, **<RETURN>** or **<SPACE>**.



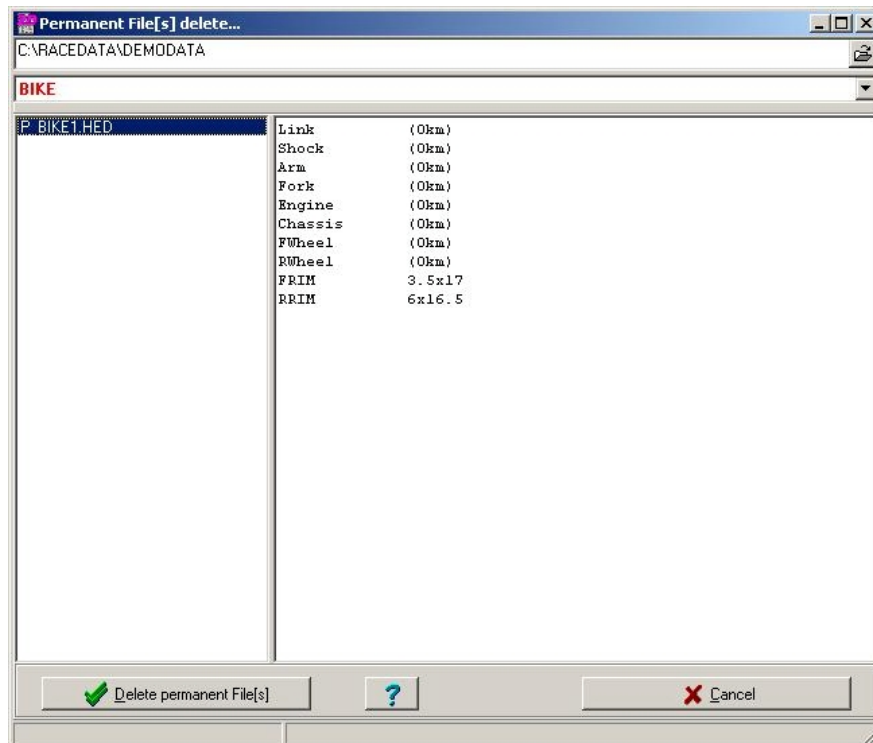
- Now you can enter the new entry identifier (group id) and a new value. Confirm with **<OK>**

1.3.1.3 Delete permanent info files

If you don't need a permanent file any longer you can delete it:

Select from the main menu **<Permanent Info / Delete permanent Info>**

You will see the following window. After the first installation you find just one permanent info file **<P_ATA.HED>**. For a quick check about the file to be deleted you find an overview about the content of the selected file (on the left panel)



1.3.2 Administration of reports

The report function provides an easy way to print information targeted to specific users. For example a race mechanic might be only interested in the groups he is working on (take the groups BIKE, FORKSET, SHOCKSET, ENGINE or SETTING)

1.3.2.1 Creating own reports

With the software we deliver eight standard reports. Take them as examples to define the reports you find most valuable.

That is done this way:

- Select from the main menu **<File / Report[s] ...>** or use the key **<F6>**. You will find the following window:
- Define your settings und confirm them with **<Save report>**

Select the groups to be printed.

Create new report
Neues Report erstellen:
Reportname ?
NEUER REPORT
OK Cancel
Enter the name for your report.

Select if you want the whole information or just differences between measurements.

Define if group names will be printed.

The screenshot shows the 'Create, change, delete print reports' dialog box. It has a title bar with a question mark icon. The main area is divided into several sections:

- Available Reports:** A dropdown menu showing 'LOADBIKE'.
- Create new report:** A button with a plus icon.
- Select group names you will print:** A list box with checkboxes for various groups: BIKE, CARBURETOR, COMMENT, DOWNLOAD, ENGINE, FORKSET, GEARBOX, GEOMDATA, IGNITION, LAPTIMES, LOADBIKE, LOADMAP, MILAGE, MISC, SETTING, SHOCKSET, SUSP_FORCES, WEATHER. 'LOADBIKE' and 'SETTING' are checked.
- Position of group:** A list box with values 1, 2, 5, 4.
- How many lines to print ?** A list box with values All, 3, All, 9, 2, All.
- Available Printer Settings:** A dropdown menu showing 'HP_CHIEFMEC'.
- Create new Setting:** A button with a plus icon.
- ALIGNMENT:** A table with settings: Portrait, MARGINLEFT: 100, MARGINTOP: 100, FONTNAME: MS S...ns Serif, fsBol, 8.
- Show only differences:** A checkbox.
- Print with groupnames:** A checkbox.
- Show no proportions:** A checkbox.
- Buttons:** A question mark icon, a 'Save Report' button, and a red 'X' button.

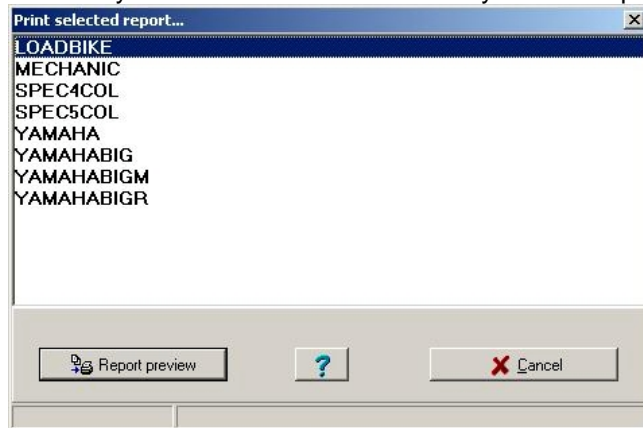
Yellow callout boxes provide additional instructions:

- Define the position of the group in the printout. Avoid empty or duplicated groups!** (points to the 'Position of group' list)
- Select the number of lines to be printed from a group. ALL will print the entire group** (points to the 'How many lines to print ?' list)
- Define print fonts and layout. Click on the cell or press <RETURN>** (points to the 'ALIGNMENT' table)
- Finally confirm your settings.** (points to the 'Save Report' button)

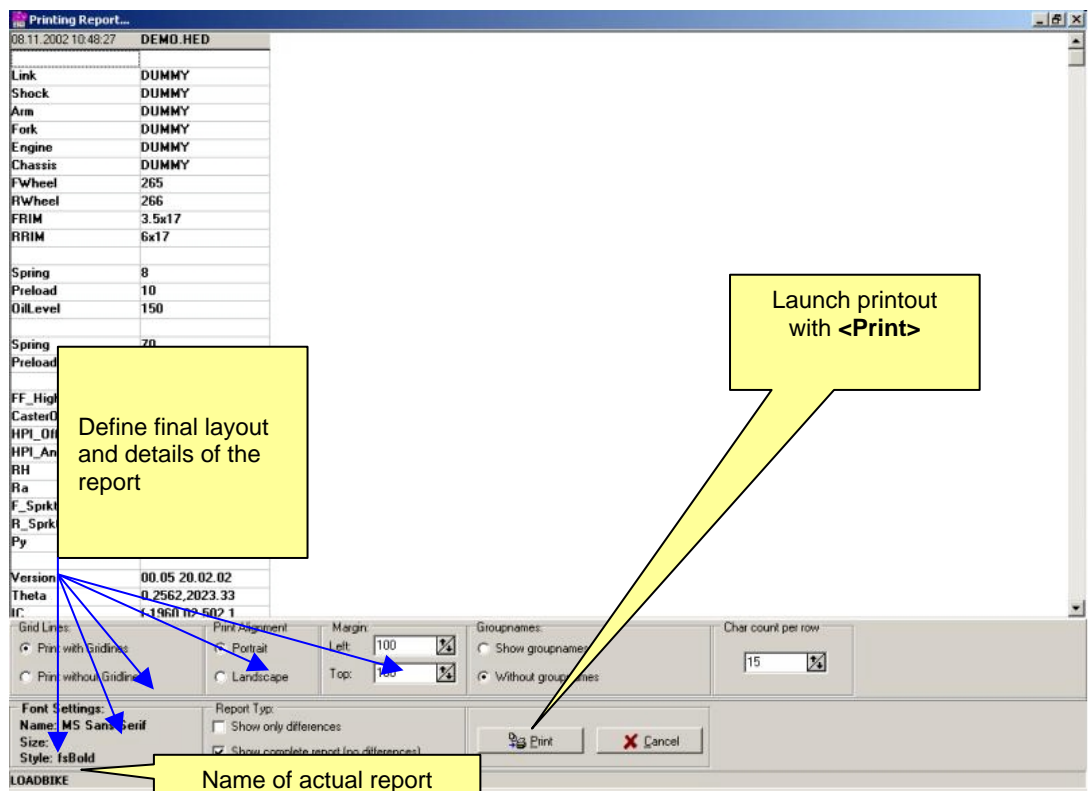
1.3.2.2 Printing reports

Predefined [Reports](#) you can print directly from the main menu of SpecView:

- Select from the main menu **<File / Report[s] / Show available reports...>** or just use **<F5>**.
- First you receive the list of all already defined reports



- Select one from the list and confirm with **<Report preview>**

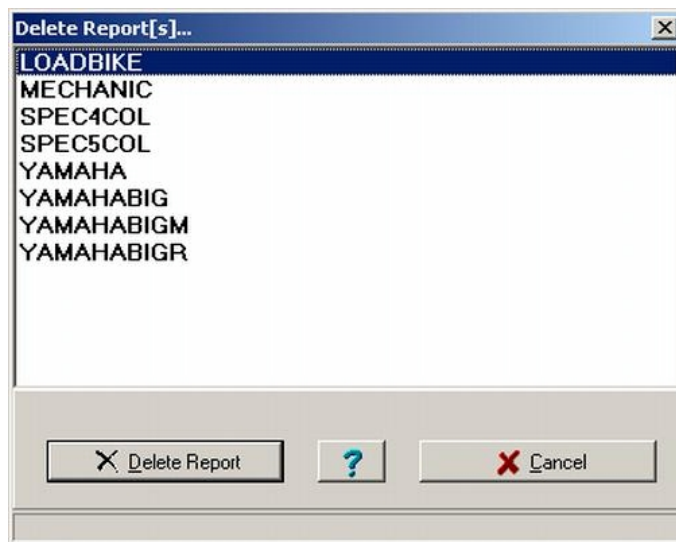


All the basic settings for the report are saved to **<Spec.ini>** and **<WPrinter.ini>** at your main WinaRace directory. If you have modified the configuration to your needs the 2D setting wizard will help you in the case of installing a new software version or after re-installing the programs to import your settings from the old version.

1.3.2.3 Deleting reports

Existing reports you can erase with **<File / Report[s] / delete...>** or with the short-cut **<F7>**

You will see the following window:



- Select the report and confirm with **<delete report>**.
- The program will ask you a second time before actually deleting the report.

1.3 3 Saving and restoring of your individual profile – the layout function

The program stores your last desktop automatically every time you leave SpecView. This includes the name of the groups, column width and the height of the groups. For the different users we offer – similar to the <TEMPLATE> function of the Analyzer – the feature to define individual profiles. With the layout function you define the up to 7 groups with the “look” you want to use.

1.3.3.1 Creating a new layout



You define the groups you need and the number of visible lines for each of them. The table gives you an overview about the easiest way to change the given settings.

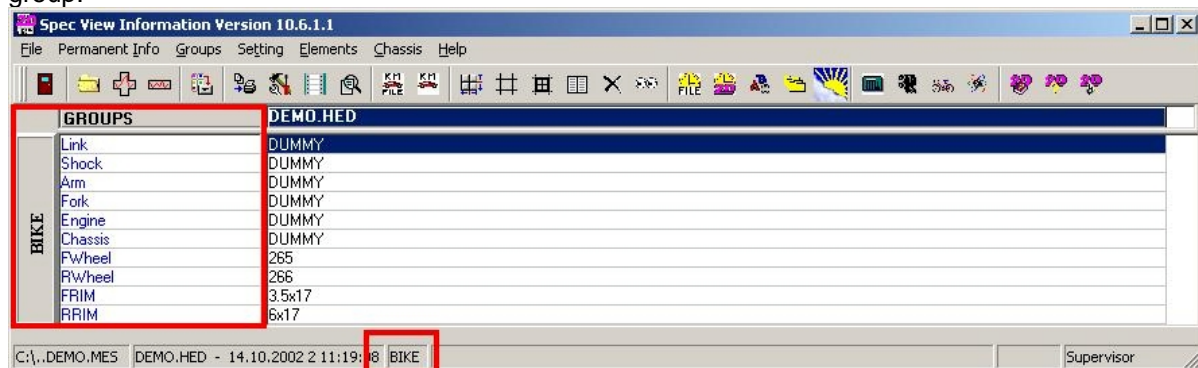
| Shortcut: | Function: |
|--------------|---|
| [CTRL +] | Increase number of lines of the active group by one |
| [CTRL -] | Reduce number of lines of the active group by one |
| [ALT + A] | Fir all groups into the desktop |
| [CTRL + S] | Maximize height of all groups (depends on number of entries of the group) |
| [CTRL +B] | Maximize height of the active group only |
| [CTRL +D] | Set height of the group according its namespace (completely readable) |

The editing functions you find on the toolbar as well. These are the corresponding buttons.



You activate a group either by clicking on it or travelling through the groups with the <TAB> key.

The active group is shown at the bottom of the SpecView window. In the example is it the [BIKE] group.



You can also select the groups 1..7 with the shortcuts <ALT 1 – ALT 7>:

1.3.3.2 Saving your layout

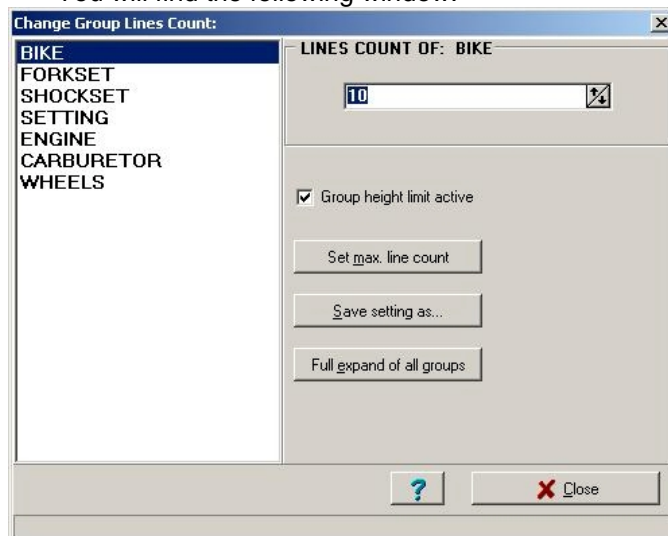
All the settings for the layout of your SpecSheet are saved to the file **<SpecSet.ini>** in your actual WinaRace directory.



Tip: Remember to use the import function of the **<2D Setting Wizards>** when you wish to save your personal settings into an updated version of the 2D software.

Let's see now how to create and save a new layout:

- From the main menu choose **<Groups./ Modify and save group height(s)>** or use the key **<F8>**.
- You will find the following window:



- The groups loaded at this moment (actually maximal 7) (left side)
- Number of visible lines for the selected group (at the right side). Modify it
 - with the mouse
 - entering a number
 - with a cursor key
- Finally save your new layout with **<Save settings as...>**



Note: You see the same window as using from the main menu **<Groups / Save Layout as...>**



1.3.3.3 Define your individual start layout

You can define the initial layout for. By default is it the last setting you used leaving the program the last time.

This default option you modify with:

- Select **<Settings / Options>** from the main menu or use the shortcut **<Alt + F9>**.
- The actual setting is identical with the default one: Loading always the last layout and the layouts are sorted alphabetically:



- Unselect **<Use last layout>** if you want a different one. Now pick your layout from the pull down list of the layouts. In the other case the default **<S_DEFAULT>** will be used.

It has the following entries:

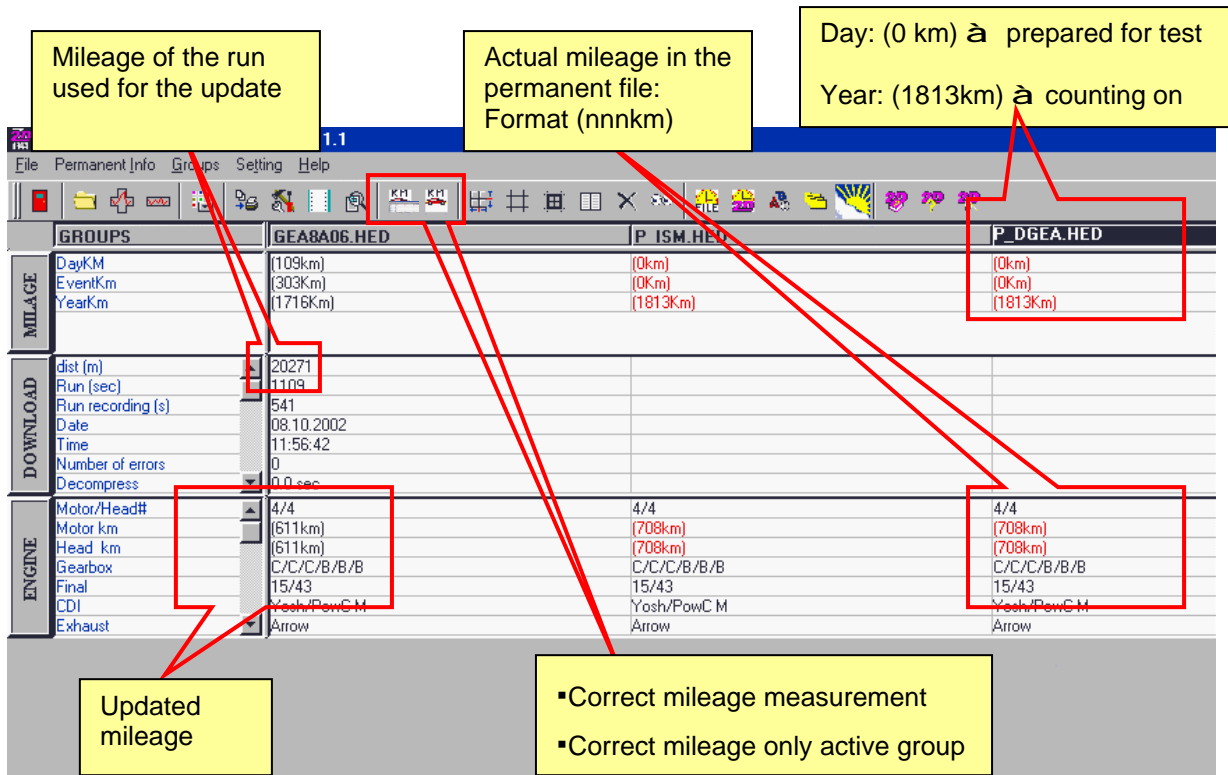
[S_DEFAULT]
BIKE=8
FORKSET=7
SHOCKSET=7
SETTING=8
LOADBIKE=26
CARBURETOR=1
WHEELS=1

Or: the 1st. group **<BIKE>** with 8 visible lines, the 2nd. Group is **<FORKSET>** with 7 lines etc.

1.3.4 The MILEAGE function – counting kilometres

SpecView includes a function to make an automatic follow-up of the mileage of single parts or automatic statistics about the kilometres done.

Just include MILEAGE entries (Format “(nKm)”), where “n” stands for the kilometres to start from counting) in your groups in the permanent header files and SpecView will update them a download time with the data gathered by the logger, copying them as well into the *.HED files of the measurement.



The screenshot shows the SpecView software interface with three main sections: MILEAGE, DOWNLOAD, and ENGINE. Annotations highlight specific data points and functions:

- MILEAGE section:**
 - Day: (0 km) → prepared for test**: Points to the 'DayKm' entry in the 'GEA8A06.HED' file.
 - Year: (1813km) → counting on**: Points to the 'YearKm' entry in the 'GEA8A06.HED' file.
 - Actual mileage in the permanent file: Format (nnnkm)**: Points to the 'YearKm' entry in the 'GEA8A06.HED' file.
 - Mileage of the run used for the update**: Points to the 'YearKm' entry in the 'GEA8A06.HED' file.
- DOWNLOAD section:**
 - Updated mileage**: Points to the 'dist (m)' entry in the 'GEA8A06.HED' file.
- ENGINE section:**
 - Correct mileage measurement**: Points to the 'Motor/Head#' entry in the 'GEA8A06.HED' file.
 - Correct mileage only active group**: Points to the 'Motor/Head#' entry in the 'GEA8A06.HED' file.



NOTE:

If you make changes to your permanent info file be sure to save them before the next download and read them every time after a download from the saved file. If you miss that, WinIt will update the MILEAGE entries in the saved file and the data on the screen will be different from the modified file or you will overwrite the corrected MILEAGE data with a later save!

1.3.5 The SECTIONTIMES and the GEAR groups

From the Analyzer you will create additional groups for your actual measurement with the **<File / Write section times to the spreadsheet>** command or making use of **<Wizards / Gear calculation>**.

In the SECTIONTIMES group you find the data from the **<Alt-s>** function (Lap time, section times, ideal lap).

The gear groups document the calculated gear speeds and the parameters used for the calculation. It creates the groups GEARBOX, GEAR_WIZARD and SPECIAL CHANNELS.

1.3.6 Actual weather data – The file "Weather.ini"

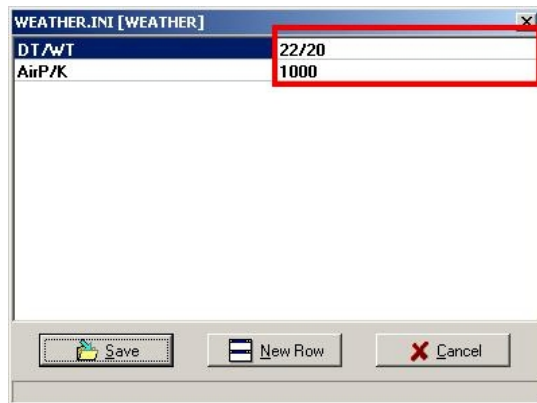
With the file "Weather.ini" you have the possibility to calculate correction factors automatically from the wet/dry temperatures and the atmospheric pressure.



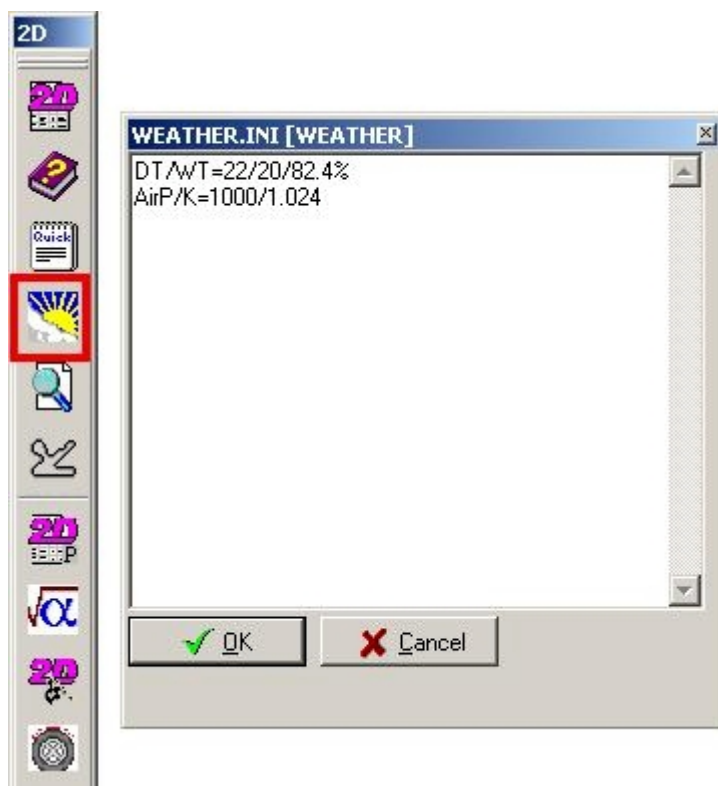
The "Weather.ini" file has to be placed in the parent directory of the actual EVENT to be recognized by the program!

The program provides two ways to maintain the data of Weather.ini:

1. In View with **<ALT + W>**. Update the values for DT/WT



2. Or via its button at toolbar of WinaRace



1.3.7 Simultaneous change of a SpecSheet of 2 different users



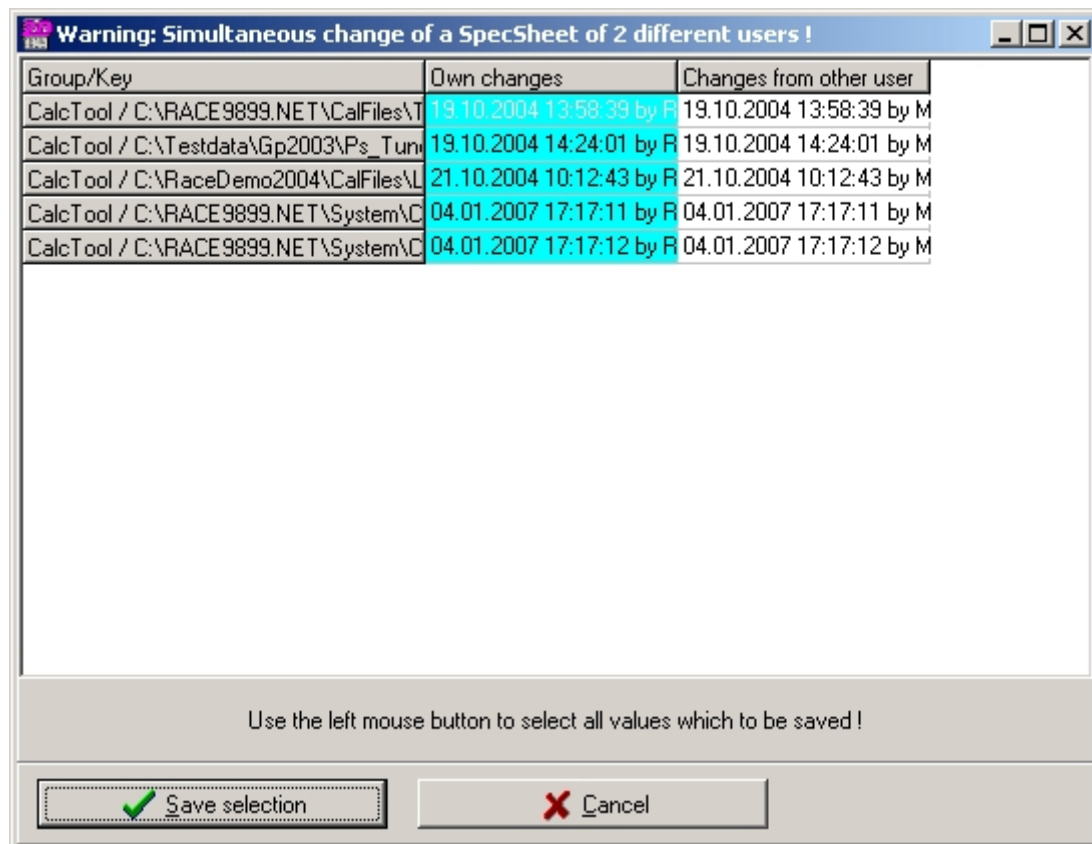
In particular in a network it is possible that more than one user load and change SpecSheets at the same time. That network access in SpecView is possible starting from the "Full license"

Around to prevent the changed SpecSheet data by several users to be mutually overwritten, a function was integrated into the software, which prevented this overwriting.

The examination whether SpecSheet data by 2 different users were made at the same time, is done by the following actions of the user:

1. If SpecSheet changes to be stored (=shortcut [ALT+S])
2. If SpecSheets to be removed (=shortcut [CTRL+R])
3. If SpecSheets to be exchanged (=shortcut [CTRL+E])
4. If the program SpecView is terminated and changes of the user were made.

If simultaneous changes of 2 different users were recognized by the software, the following window is shown.



All changes in all groups were displayed. Whether the own changes to be taken or the changes from the other user must decide by the user. Own changes are indicated in the second column (=named with own changes), changes from the other user accordingly in the third column (=named with changes from other user).

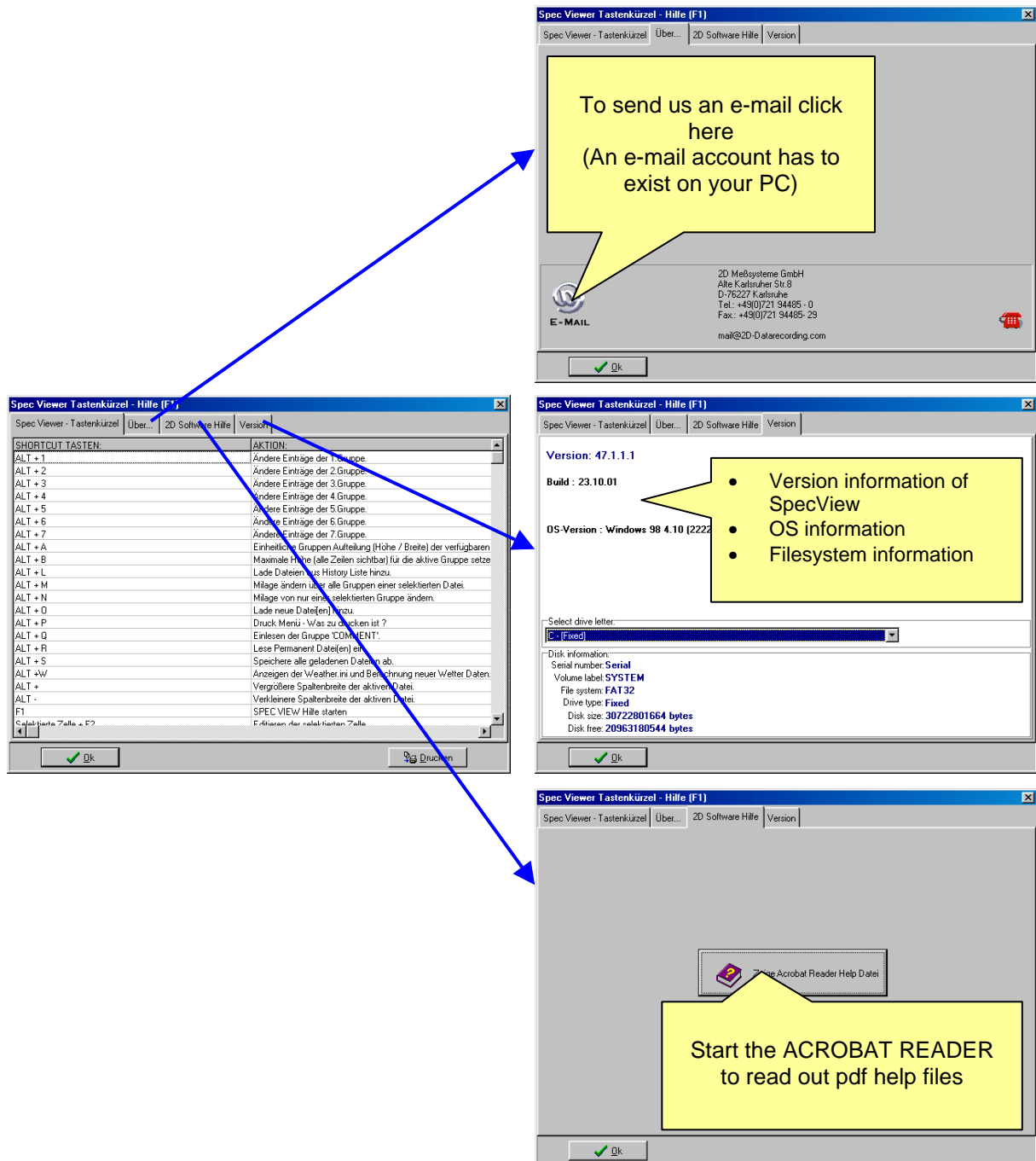
Which changes to be stored finally is be decide by the "turquoise selection" from the user. The storing of the appropriate selection must be done by the user finally with the button <Save selection>

1.4 Working efficiently with the function keys

1.4.1 The function key <F1> – Online help and information about the version

Pushing <F1> you receive information about:

- The key short cuts for SpecView
- Information about 2D (how to contact).
- Help files in PDF format (Acrobat Reader required)
- Information about your SpecView version and your actual PC configuration



The image shows three screenshots of the 'Spec Viewer - Tastenkürzel - Hilfe (F1)' dialog box, illustrating the information available when pressing the F1 function key.

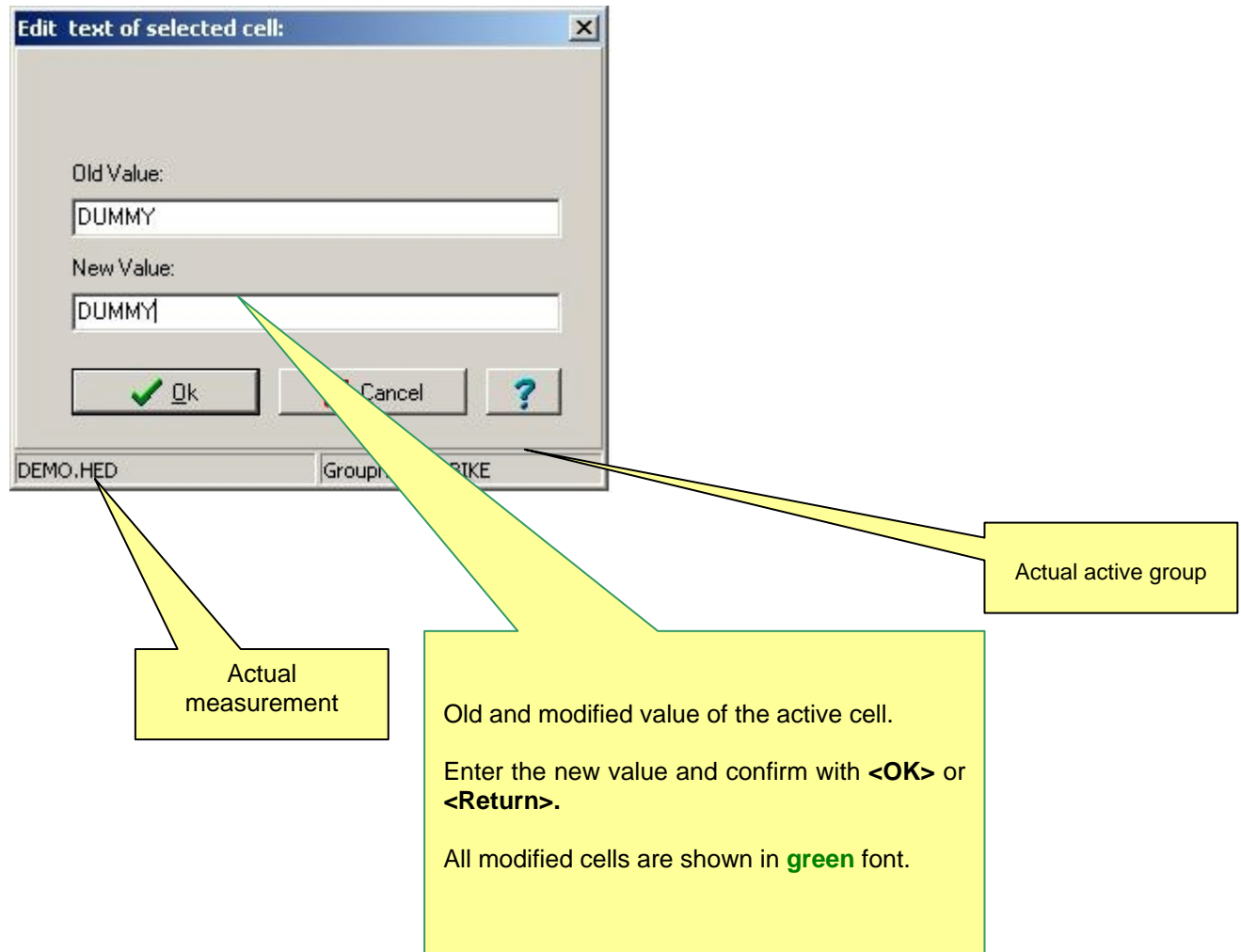
Top Screenshot (E-MAIL tab): Displays contact information for 2D Meßsysteme GmbH, including the address (Alte Karlsruher Str.8, D-76227 Karlsruhe), telephone (+49(0)721 94485 - 0), fax (+49(0)721 94485-29), and email (mail@2D-Datarecording.com). A yellow callout box states: 'To send us an e-mail click here (An e-mail account has to exist on your PC)'.

Middle Screenshot (Version tab): Displays version information for SpecView (Version: 47.1.1.1, Build: 23.10.01) and OS information (OS-Version: Windows 98 4.10 [2222]). A yellow callout box lists: 'Version information of SpecView', 'OS information', and 'Filesystem information'.

Bottom Screenshot (Acrobat Reader Help Datei tab): Displays a button to 'Start the ACROBAT READER to read out pdf help files'. A yellow callout box states: 'Start the ACROBAT READER to read out pdf help files'.

Left Screenshot (SHORTCUT TASTEN tab): Displays a table of keyboard shortcuts and their corresponding actions. A yellow callout box points to the 'F1' row, which indicates 'SPEC VIEW Hilfe starten'.

1.4.2 The function key <F2> – Editing the active cell

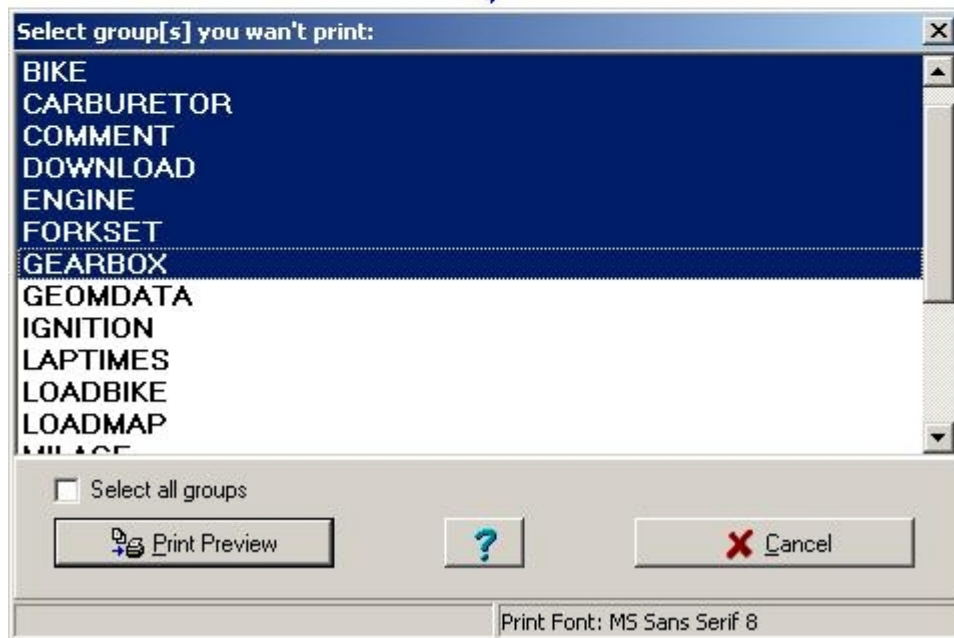
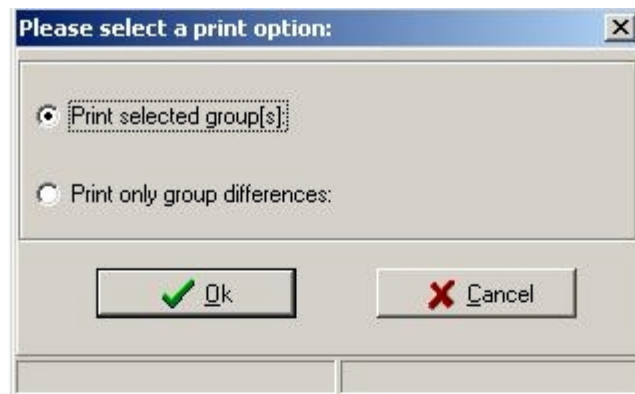


1.4.3 The function key <F3> – the print mode

Direct printing of selected groups.

Choose between:

1. **<Print selected group(s)>** – print the complete information of the selected groups
2. **<Print only group differences>** - Only meaningful with more than one group loaded! All entries are compared with the values of the first measurements – the leftmost - and only different entries are printed.

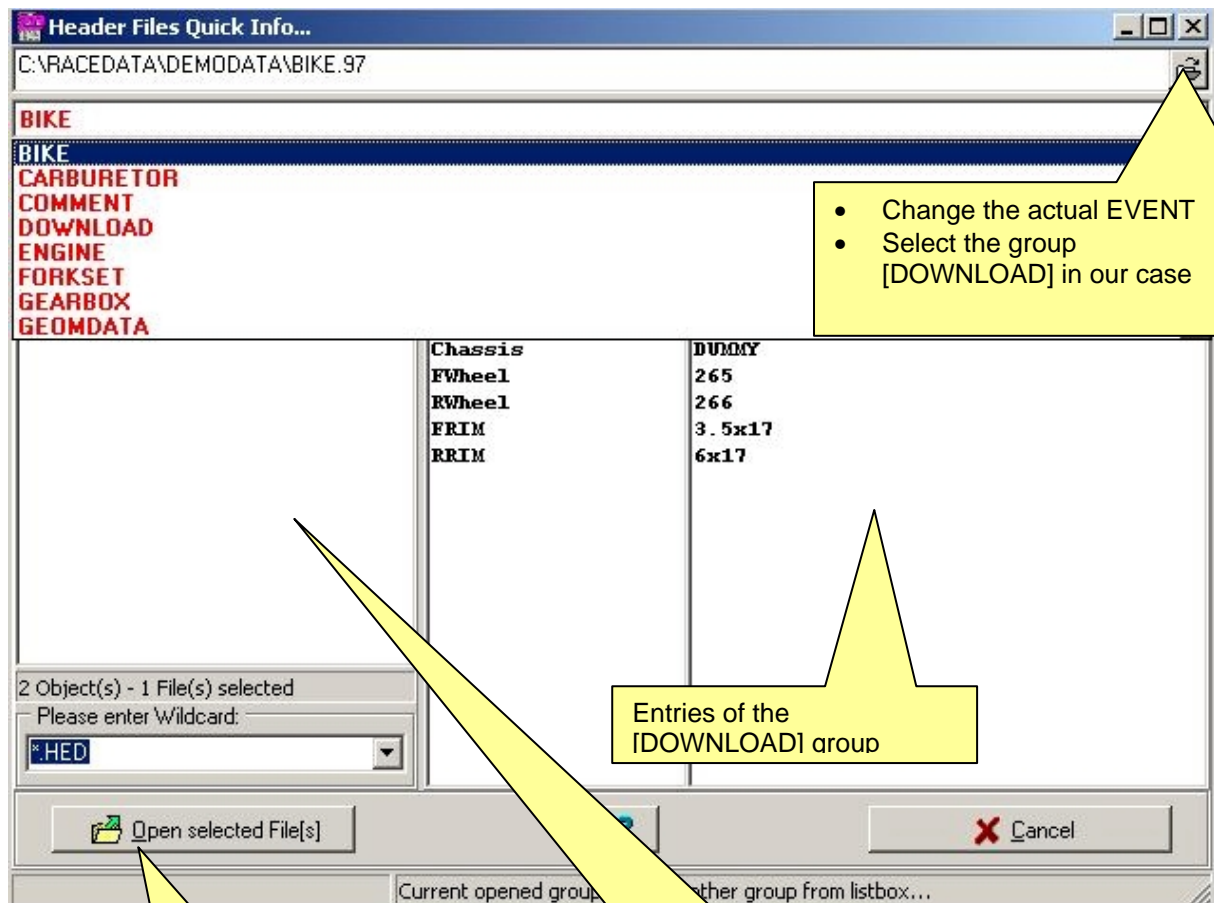


3. Confirm your selection with the button <Print Preview> to get a detailed print preview.

1.4.4 The function key <F4> – Quick info measurement/group

To have a quick look on one special group for all SpecSheet files of the EVENT you have a dedicated function:

1. From the main menu you select **<File / Quick info>** or push just **<F4>**.
2. Now you can go to the EVENT you are interested in, select from the different groups, see the content of a specific measurement and you mark the measurements you want to load into SpecView



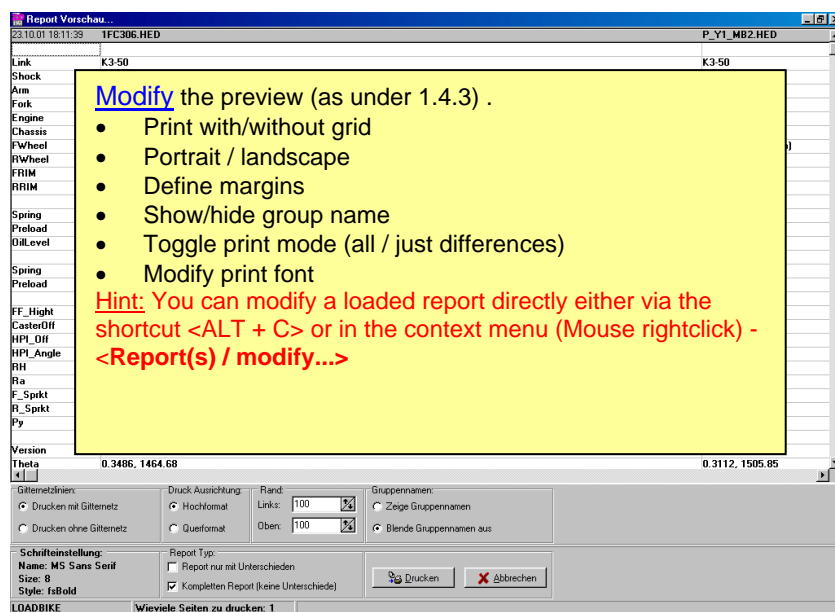
1.4.5 The function key <F5> – Direct access to report files

You access your report files with the shortcut key <F5>:

1. Select a report from the list



2. Select <Report preview>.



3. Print the selected report with <Print>.

1.4.6 The function key <F6> – Modify your own reports

With <F6> you can easily modify existing reports or create new ones:

Create new report

Reportname ?
NEUER REPORT
OK Cancel

Enter the name for your report.

Select the groups to be printed.

Select the complete information or just differences between measurements.
Define if group names will be printed.

Available Reports: **LOADBIKE** ☐ Show only differences
☐ Print with groupnames

Select group names you will print:

| | |
|-------------------------------------|-------------|
| <input checked="" type="checkbox"/> | BIKE |
| <input type="checkbox"/> | CARBURETOR |
| <input type="checkbox"/> | COMMENT |
| <input type="checkbox"/> | DOWNLOAD |
| <input type="checkbox"/> | ENGINE |
| <input checked="" type="checkbox"/> | FORKSET |
| <input type="checkbox"/> | GEARBOX |
| <input type="checkbox"/> | GEOMDATA |
| <input type="checkbox"/> | IGNITION |
| <input type="checkbox"/> | LAPTICES |
| <input checked="" type="checkbox"/> | LOADBIKE |
| <input type="checkbox"/> | LOADMAP |
| <input type="checkbox"/> | MILAGE |
| <input type="checkbox"/> | MISC |
| <input checked="" type="checkbox"/> | SETTING |
| <input checked="" type="checkbox"/> | SHOCKSET |
| <input checked="" type="checkbox"/> | SUSP_FORCES |
| <input type="checkbox"/> | WEATHER |
| <input type="checkbox"/> | WHEELS |

☐ Select all group names

Position of group:

| |
|---|
| 1 |
| 2 |
| 5 |
| 4 |
| 3 |
| 6 |

How many lines to print ?

| |
|-----|
| All |
| 3 |
| All |
| 9 |
| 2 |
| All |

Available Printer Settings:

HP_CHIEFMEC

| | |
|------------|---------------|
| ALIGNMENT | Portrait |
| MARGINLEFT | 100 |
| MARGINTOP | 100 |
| FONTNAME | MS Sans Serif |
| FONTSTYLE | fsBold |
| FONTSIZE | 8 |

☐ Show no proportion prints

Define the position of the group in the printout. Avoid empty or duplicated groups!

Select the number of lines to be printed from a group. ALL will print the entire group

Define print fonts and layout. Click on the cell or press <RETURN>

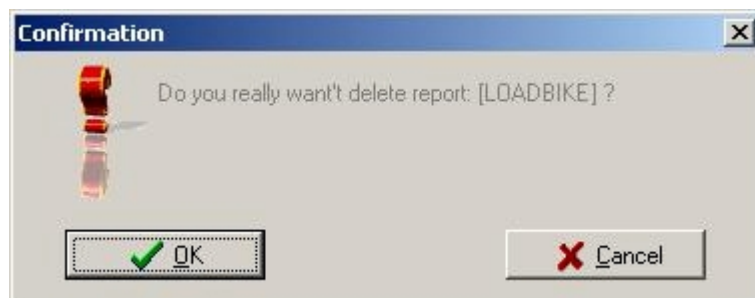
Finally confirm your settings.

1.4.7 The function key <F7> – Delete reports

To delete a report you use the function key **<F7>** from SpecView:



Select the report you want to delete and push **<Delete report>**.

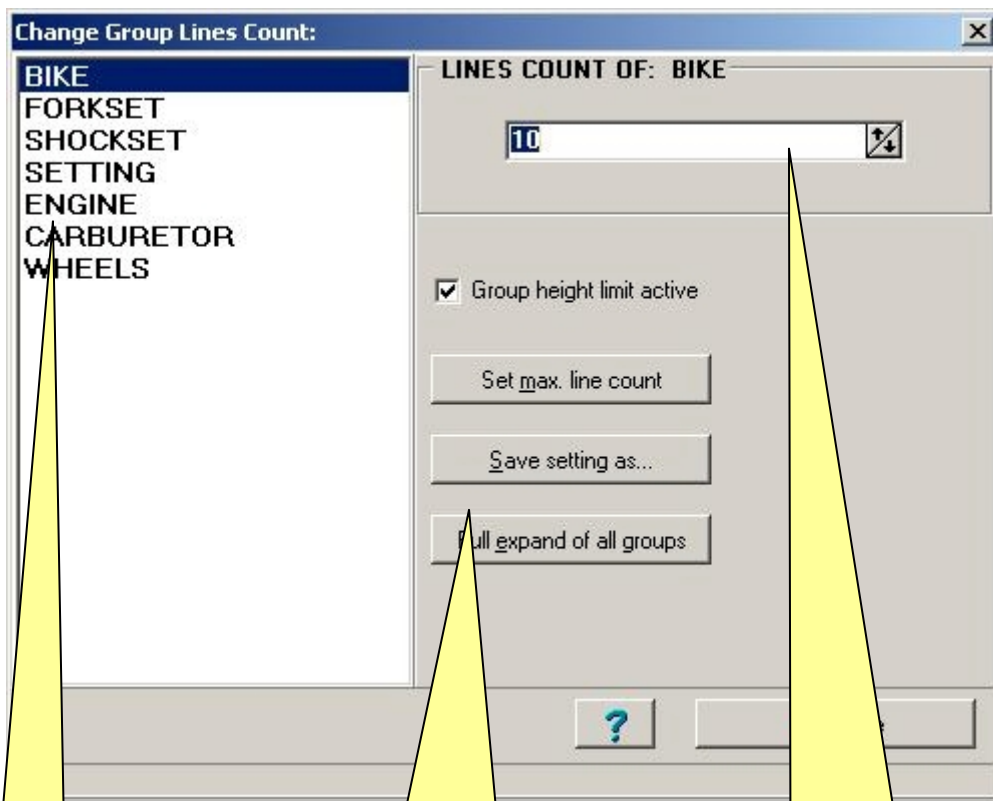


The program asks you to confirm your selection. The deletion becomes effective with **<OK>**.

1.4.8 The function key <F8> – Modify group height

The easiest way to change the number of visible lines of a group is using <F8>.

Select from the list the group where you want to modify the number of lines as shown in the window.



The groups loaded at this moment (actually maximal 7)

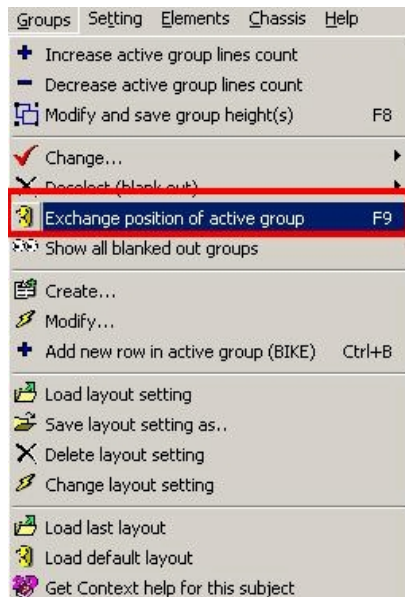
- Expand the active group completely
- Expand all groups completely

Number of visible lines for the selected group.
Modify it

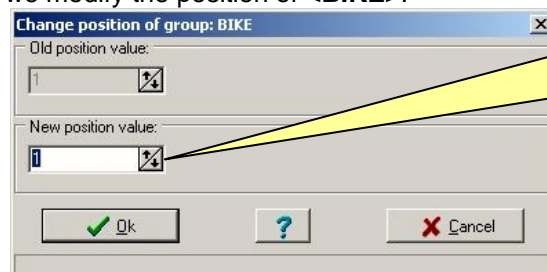
1. with the mouse
2. entering a number
3. With a cursor key.

1.4.9 The function key <F9> – change the position of groups

Sometimes you need to interchange the position of two groups in the SpecSheet.
Select the group you want to modify with a mouse click or with the <Page UP> & <Page Down> keys.
Use from the main menu <Groups> the entry <Exchange position of active group> or key <F9>.



In our example we modify the position of <BIKE>.



Enter the new position directly,
use the mouse, or the [+ / -], or
the [Page Up / Page Down]
keys!

Confirm the new position with <OK>.

1.4.10 The function key <F10> – the direct way to the main menu

With <F10> you access directly the main menu of the program. The first entry <File> is selected and you can navigate through the menus with the cursor keys (up/down/left/right) to reach the function you want.

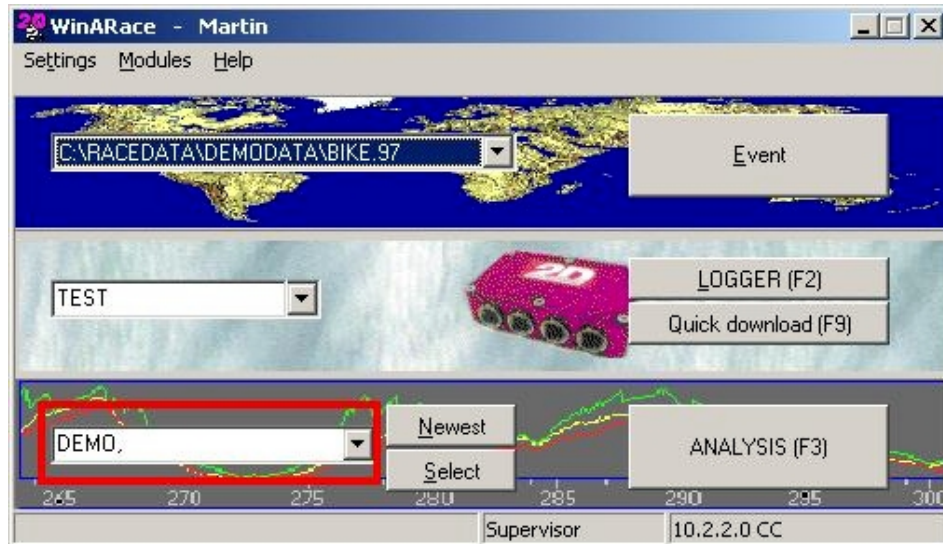
1.4.11 The function key <F11> – toggle window size

With <F11> you can change the actual window size of SpecView from maximum to small. If you modify the size of the small window with the mouse, the new setting will be memorized for the future. Pushing <F11> another time will restore the maximum size.

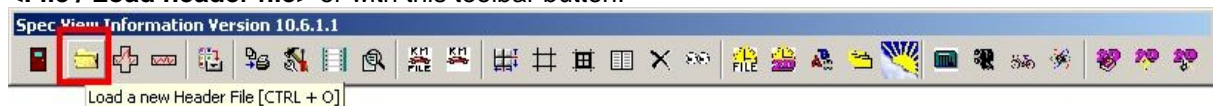
1.5 Load additional measurements

1.5.1 Load header files from the actual event

The SpecSheet file SpecView will use initially is defined as the “actual measurement” at the WinaRace main menu.



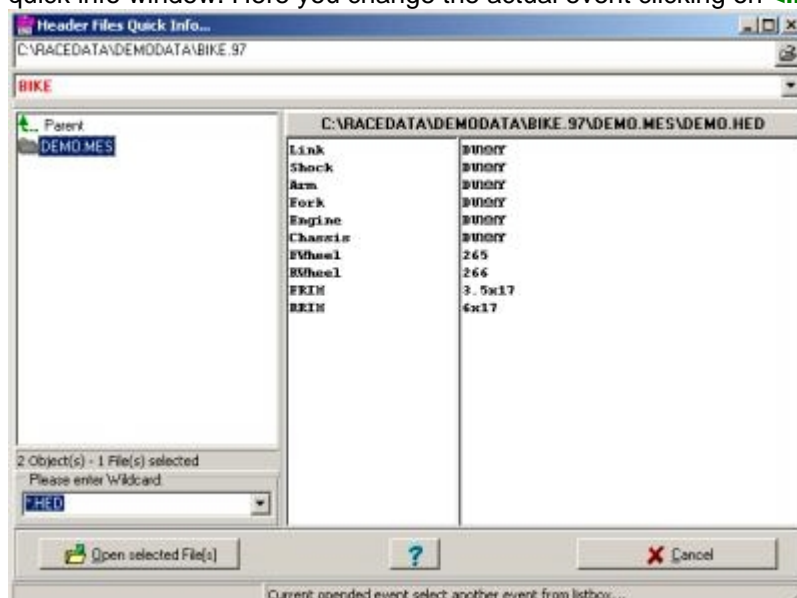
Once you have started the SpecView (see also chapter 1.1: [How to start the program](#)) you can load additional SpecSheet files from the actual event with the shortcut **<CTRL + O>**, the main menu entry **<File / Load header file>** or with this toolbar button.



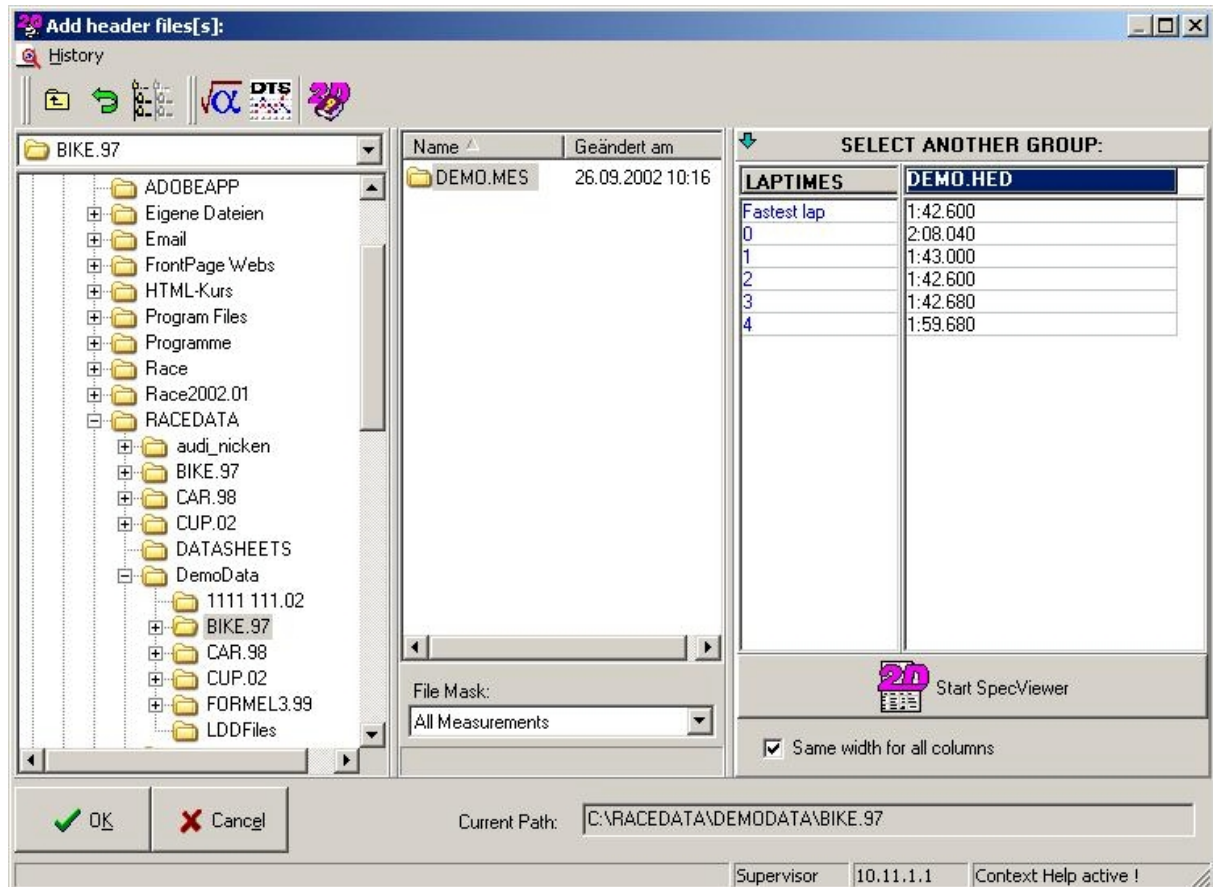
The window to be shown is perhaps already familiar to you from the option **<Select>** at the main menu of WinaRace

1.5.2 Load measurements from a different EVENT (change EVENT)

To compare data from different events (for example from the race last year at the same place) you select from the main menu **<File / Quick info>** or you use directly the function key **<F4>** to open the quick info window. Here you change the actual event clicking on **<...Parent>**



An alternative way is using **<File / Load header file (Change event)>** from the main menu. You get the same window as selecting the **<Event>** at the main menu of [WinaRace](#). The information is shown from the <Event.ini> file.



The window is divided into three areas:

- The tree view at the left side for event changing
- The panel in the middle for choosing the 2D measurements (SpecSheets)
- The panel at the right side for general information. If you select a 2D Event you will get special event information. If you select a 2D measurement you will get SpecSheet information for each selected measurement.



Tip: You can select more than one measurement at a time using the same technique as working with the Windows Explorer: To select a whole block maintain <SHIFT> pressed while marking the start and the end of the block with the mouse. To select non-continuous entries maintain the <CTRL> key pressed and mark the measurements one by one with the mouse.

1.6 Getting help – using context sensitive help modules

From Software version 2002.xy the principal 2D software modules contain context sensitive help functions. You start them with the function key <F1>.

"Context sensitive" means that the help function will try to give you the information that is relevant in your actual context of work.

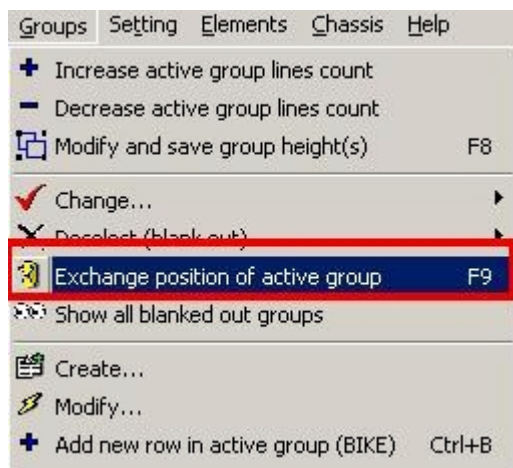


Please note: Not for every component a specific help is available. We try to focus on the most important ones.

We provide three different access methods to select a quick help:

1st.: Select the specific menu entry

Select an entry from the menus, for example <Setting / Exchange position of active group> and then push <F1>. The help for this function will be shown.



2nd.: using the help icon

In many windows you will find a help button with a small blue < ? > icon. Press it and you get the required information.



3rd:

Just press <F1> at any moment. If the active component is linked to help content it will be shown. In the other case you get to the start page of the help module for the program.

2 - Extended functions

2.1 Printing via Excel

In SpecView and also the analysis tool Analyzer you can easily export data to Excel and print them from there. An inexperienced user will find predefined Excel formats. They are part of the standard scope of the 2D software packages.

An advanced user can create his individual Excel formats. In our help-files you find how to proceed and which syntax to use. Therefore select **<File / Get context help for printing via Excel>**.

The functions you can use are:

- **<File / Print Excel direct>**
- **<File / Get Excel preview>**

The first function will print the selected format directly.

Use the second function if you prefer a preview with the possibility to modify the format and start printing manually from Excel.

Our CD-ROM contains under the selection **<Show pdf files / Short introduction>** an additional help file about the topic.

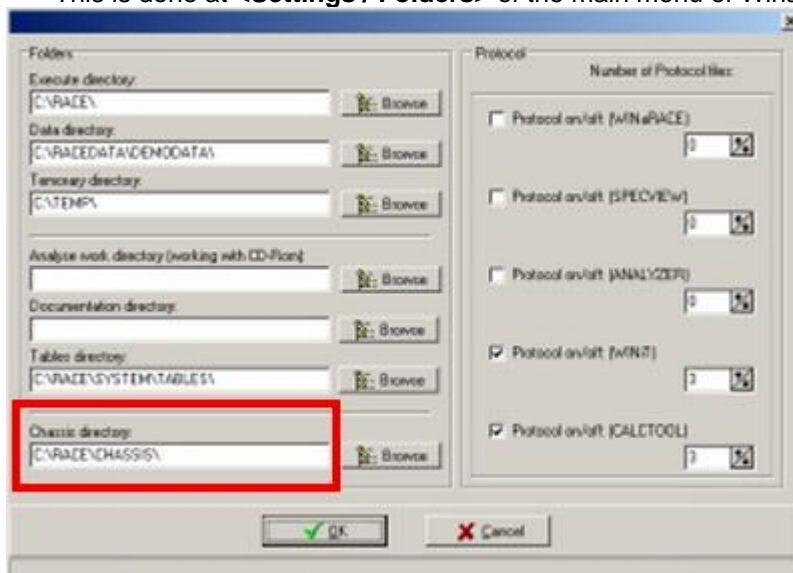
2.2 Optimise your motorbike setting – The CHASSIS add-on program

The CHASSIS program is an add-on not included in the normal scope of delivery of our software. It is **exclusively targeted towards high-end professional users !**.

To be able to work with CHASSIS the following points are supposed:

- The program requires an additional CHASSIS software license from 2D
- You need complete and valid CHASSIS data sets.
- Assign the correct directory for your CHASSIS data.


This is done at **<Settings / Folders>** of the main menu of WinaRace





The CHASSIS user will find two additional main menu entries **<Elements>** and **<Chassis>** and four complementary toolbar buttons.



Appendix A: List of key short-cuts

| Shortcut | Action: |
|-------------------------|--|
| <u>ALT</u> + 1 | Modify name of the 1.group |
| <u>ALT</u> + 2 | Modify name of the 2.group |
| <u>ALT</u> + 3 | Modify name of the 3.group |
| <u>ALT</u> + 4 | Modify name of the 4.group |
| <u>ALT</u> + 5 | Modify name of the 5.group |
| <u>ALT</u> + 6 | Modify name of the 6.group |
| <u>ALT</u> + 7 | Modify name of the 7.group |
| <u>ALT</u> + <u>A</u> | Same layout (height / width) for all shown groups |
| <u>ALT</u> + <u>B</u> | Expand the active group (all rows visible). |
| <u>ALT</u> + <u>C</u> | Open the <CHASSIS> program – optional! Requirements: see chapter 2.2 The Chassis program |
| <u>ALT</u> + <u>D</u> | Open the menu: <File> |
| <u>ALT</u> + <u>E</u> | Open the menu: <Settings> |
| <u>ALT</u> + <u>G</u> | Open the menu: <Groups> |
| <u>ALT</u> + <u>H</u> | Open the menu: <Help> |
| <u>ALT</u> + <u>I</u> | Open the menu: <Permanent Info> |
| <u>ALT</u> + <u>L</u> | Read files from the HISTORY |
| <u>ALT</u> + <u>M</u> | Modify MILAGE active file (all groups) |
| <u>ALT</u> + <u>N</u> | Modify MILAGE active group only |
| <u>ALT</u> + <u>O</u> | Load additional SpecSheet file |
| <u>ALT</u> + <u>P</u> | Print menu – select items to be printed (all- / just differences and the groups) |
| <u>ALT</u> + <u>Q</u> | Modify group [COMMENT] (Add comments to measurement) |
| <u>ALT</u> + <u>R</u> | Load permanent info files. (All files with P_*.HED at the parent directory of the actual EVENT directory) |
| <u>ALT</u> + <u>S</u> | Save all loaded files. To be confirmed by the user! |
| <u>ALT</u> + <u>T</u> | Open the <CHASSIS> program – optional! Requirements: see chapter 2.2 The Chassis program |
| <u>ALT</u> + <u>W</u> | Show and edit the <WEATHER.INI> file. This file has to be in the parent directory of the actual EVENT directory. |
| <u>ALT</u> + <u>X</u> | Exit program – save modifications after confirmation |
| <u>ALT</u> + | Increase column width of the active SpecSheet file |
| <u>ALT</u> - | Decrease column width of the active SpecSheet file |
| <u>F1</u> | View sensitive help for this module. |
| <u>F2</u> + active cell | Edit active cell  Note: You can only change the value of a cell and not the cell identifier (Left at the group identifier). Only in the case of a new empty group (<CTRL + B>) you can edit the identifier as well! |
| <u>F3</u> | Print preview: All loaded files and the selected groups. Print all / Print differences: All files are compared with the first one and only the differences are shown. |
| <u>F4</u> | Show overview SpecSheet files |
| <u>F5</u> | Show existing reports and start the print preview with the selected report. |

| | |
|-----------------------------|--|
| F6 | Modify or create new report |
| F7 | Delete report after confirmation |
| F8 | Modify and save number of lines of the groups. |
| F9 | Modify position of the active group |
| F10 | Open main menu of SpecView. Navigate with the cursor keys through the different menu entries. |
| F11 | Toggle window size: Reduce main window/Maximize main window |
| CTRL + DEL | Unload active SpecSheet file with confirmation of saving of modifications |
| CTRL + | Modify group height: Show an additional line of the active group  Note: If the <Group height limited> is activated (menu <Settings>) only a maximum of lines to be shown is allowed! |
| CTRL - | Reduce group height: Show one line less of the active group! |
| CTRL + A | Load the active file again |
| CTRL + B | Add a new empty line to the active group. Modify with <F2>! |
| CTRL + C | COPY function. Copy text from the active cell to the clipboard |
| CTRL + D | Modify all group heights: Expand all groups to show the complete name . Note: The new height depends on the length of the its name |
| CTRL + E | Exchange the active SpecSheet file by another selected one. |
| CTRL + O | OPEN function: Load an additional file |
| CTRL + R | REMOVE function: Remove the active file (with confirmation in case of modifications) |
| CTRL + S | Modify group height: Show all the groups (max. 7 at this time) with all their entries. The number of lines depends on the number of entries |
| CTRL + V | PASTE Function: Paste the text from the clipboard (see <STRG + C>) into the active cell |
| CTRL + TAB | Combined COPY + PASTE function: Copy the content of the active cell into its right neighbour cell. |
| CTRL + ALT + TAB | Combined COPY + PASTE function: Same as <CTRL+C> and <CTRL+V> in series; but simultaneous) The "copy + paste" action (related to the current value) is done here line by line in difference to function <CTRL+Tab> which is processed cell by cell. |
| RETURN + active cell | Edit active cell Note: You can only change the value of a cell and not the cell identifier (Left at the group identifier). Only in the case of a new empty group (<CTRL + B>) you can edit the identifier as well! |
| Page Up Page Down | Change active cell |
| Home End | Change active cell |
| Cursor left Cursor right | Change active cell |
| ALT + F4 | Exit program– to be confirmed in case of modifications |
| Any character or number | Edit active cell Direct modification of the active cell  Note: Also this first character will be entered! |

Appendix B: Glossary

| Topic: | Comment: | Help: |
|-----------------------|--|--|
| CHASSIS Programm | Graphical and analytical add-on to improve chassis settings for motorbikes. Requires the program Chassis.exe and chassis data sets for your bike | Chapter 2.2 - The Chassis add-on program |
| Download | Reading data stored in the 2D datalogger into the PC. Done by the program Winlt. | |
| EVENT directory | Directory for a group of measurements (actual data directory) | Introduction – How to create a EVENT directory |
| Header file | Files the program SpecView is using. The files are created at Download time and have the same name as the measurement itself. The file extension for these SpecSheet files is - *.HED. | Introduction |
| Layout | View of the actual loaded data groups in SpecView. Modify them with <Alt 1 - Alt 7>. The layout defines the groups to be shown (max.7 actually) and the number of visible lines per group. Use the functions <Load layout> and <Save layout> from the main menu entry <Groups> to administer layouts. | Chapter 1.3.3 – administering Layouts |
| Permanents info files | Permanent info files contain the information you want to maintain permanently to be able to understand and analyse your data (vehicle settings, environment). They have the same structure as the header files and are used to merge the download data with the setting data to create the SpecSheet file for a specific measurement. They need to have the prefix “P_” and are located in the parent directory of the actual event. | Chapter 1.3.1 Administration of Permanent info files |
| Report function | Quick method to load and print predefined formats for up to seven groups from various measurements. Use <F6> to create and modify reports, <F5> to load them and <F7> to delete reports. | Chapter 1.3.2 Administration of Reports |

Appendix C: The different sources for the groups of a SpecSheet

| Group | Created | Modified | From | When |
|----------------------|----------------|----------|-------------------------|----------------------|
| COMMENT | User | User | SpecView/Analyzer/WinIt | Anytime |
| DOWNLOAD | WinIt | | WinIt (<F9>) | At download |
| Engine/Fork/Tires... | User | User | SpecView Permanent Info | Previous download |
| Mileage | User | WinIt | SpecView Permanent Info | Modified at download |
| WEATHER | System | User | Weather button | |
| SECTIONTIMES | User triggered | | Analyzer | |
| GEARBOX/SP.CH. | User triggered | | Gear wizard at Analyzer | |

