

HIDJA Rallycomp 300 User manual



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1 Important about safety

All installation of HIDJA trip-product should be done by authorized personnel. All installation and use are done at ones own risk and HIDJA AB's responsibility are limited to the prestanda of the product. The owner alone is responsible for the installation of HIDJA Trip-product and that it is used accordingly to any law. HIDJA AB is not responsible for injury to persons or materiel when using HIDJA Trip-product. Measured values displayed in HIDJA Trip-product can vary from many reasons and should be seen as guidance and not exact truth. HIDJA AB is not resoponsible for the correctiveness in the measured values presented in HIDJA Trip-product. This manual represents HIDJA Tripproduct at the time of printing, HIDJA AB have the right to make any adjustment without further notice.

2 Description

HIDJA RallyComp300 is an instrument for measurement of distance, time, speed and fuel in cars intended for rallying. HIDJA AB has combined technology know-how with many years of experience in production of electronic to bring you a high quality product that is easy to use and will last for long time. The integral graphic display provides clear and sharp information and can be adjusted for good visibility. The display have a soft amber backlight to fit in different weather conditions and measures 103x30mm.

The RallyComp has been developed through collaboration with experienced co-drivers in order to meet the most rigorous demands under the toughest conditions. Distance calibration is easy to do and can be executed on the fly.

3 Installation

The RallyComp can easily be installed with mounting angles that comes with the meter or with some of the accessories like an attachment detail. Please observe that the installation must follow several certain regulations.

3.1 Connections

Connect the cables accordingly to this:

- **Red**
Is connected to +12V to battery, fuse is not needed.
- **Brown**
Ground. Is connected to negative pole at battery.
- **Orange**
Extern reset of trip 2. Activated by +12V signal. Can be connected to extern switch or connected to ground if not in use.
- **Yellow**
Reverse indication. Is connected to the reversing light, are activated at +12V signal.
- **Green**
Distance indication. Is connected to the incoming pulse signal.
- **Black**
Fuel indication. Is connected to the signal from the fuelsensor.
- **Blue**
Remote control. Is connected to a switch who gives a +12V signal when activated.
- **Grey**
Shield. Is connected to chassis.

3.2 Option parts and spares

HIDJA offers spares and accessories for your convenience. Please visit www.hidja.se, or contact us and we will help you.

RallyComp has got three windows that independently from each other show value by choice. The main window shows all installations in the menu and how you navigate to find them while the two smaller windows show values chosen by the user. These values can in some situations be shown in a lower resolution than the main window. The buttons' functions are also shown as labels and changes depending on what is shown in the main window. The intentions with RallyComp is that the buttons' functions only affect the particular program that is chosen in the main menu.

4.1 Shut down / Sleep mode

If the RallyComp not is beeing used for five minutes or more it goes into a sleep mode. RallyComp automatically starts when the car starts moving or when a button is pressed in. The sleep function is shut down when user are in setup mode.

4.2 Remote control

Remote control for function SPLIT or STOP. See chapter 3.1 for installation and 8.9 for setup.

4.3 Extern reset

The RallyComp allows extern reset of trip2 by a switch. This function is activated with a +12V signal.

4.4 Function summary

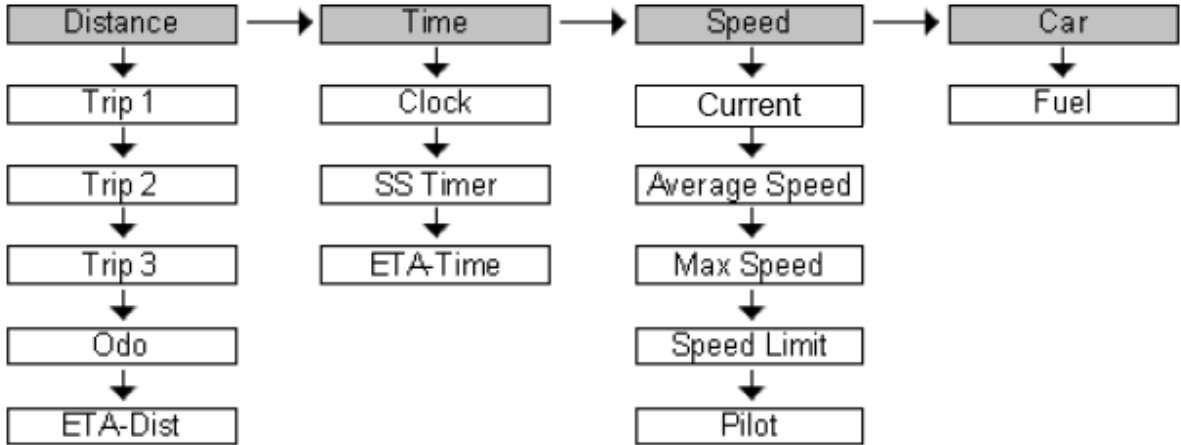
RallyComp contains the following functions:

<i>Funtions</i>	<i>Desc</i>	<i>In display</i>	<i>Chapter</i>
Trip1	Tripmeter with a resolution of 1m. Pilot, ETA, average speed and the stop clock are all based on this tripmeter. Resolution in smaller window is 10m.	xxxx.xxx km (mi)	7.1.1
Trip2, Trip3	Tripmeter with a resolution of 1m. Resolution in smaller window is 10m.	xxxx.xxx km (mi)	7.1.2
Odo	Shows the total stage from the time when the tripmeter was installed.	xxx.x km (mi)	7.1.3
ETA Dist	Stage which the user has chosen for calculation of the ETA.	xxxx.xxx km (mi)	7.1.4
Clock	Time of day.	hh:mm:ss 24h	7.2.1
SS Time	Stoppage time for special stage with resolution 1/10 s.	hh:mm:ss.t	7.2.2
ETA Time	Estimated time of arrival if the stage is registered in ETA Dist. The calculation starts from the time when Trip1 is set to 0. Is calculated from average speed.	xxxx.xxx km (mi)	7.2.4
Speed	Current speed	xxx km/h (mph)	7.3.1
Average Speed	Average speed from the time Trip1 was set to 0.	xxx.xx km/h (mph)	7.3.2
Max	Maximum speed on the stage since Trip1 was set to 0.	xxx km/h (mph)	7.3.3
Limit	Speed control; HIDJA RallyComp's backlight flashes if the chosen value is beeing exceeded.	xxx km/h (mph)	7.3.4
Pilot	Show your time compared to the average speed.	+ hh:mm:ss	7.3.5
Fuel	Remaining amount of fuel in the tank.	Xxx L (Ga).	7.4.1

The usage of HIDJA RallyComp's menu is done by repeated pressings on the arrow signed buttons on the meters right side. These buttons are always available for navigation through the menu. When values are chosen for the HIDJA RallyComp, such as, set time or trip adjustment, the buttons change function.

5.1 Program menu

The construction of the main menu is illustrated by the following schedule:







The menu consists of one main menu and several sub menus. The main menu consists of: *Distance*, *Time*, *Speed* and *Car*. There are a number of different sub menus below every main menu alternative. You can for instance find *average speed* and *speed limit* as sub menus to *Speed* etc.

5.2 Browsing through the menu

All browsing takes place in the main display and you can at all times read on the display where exactly you are in the menu.

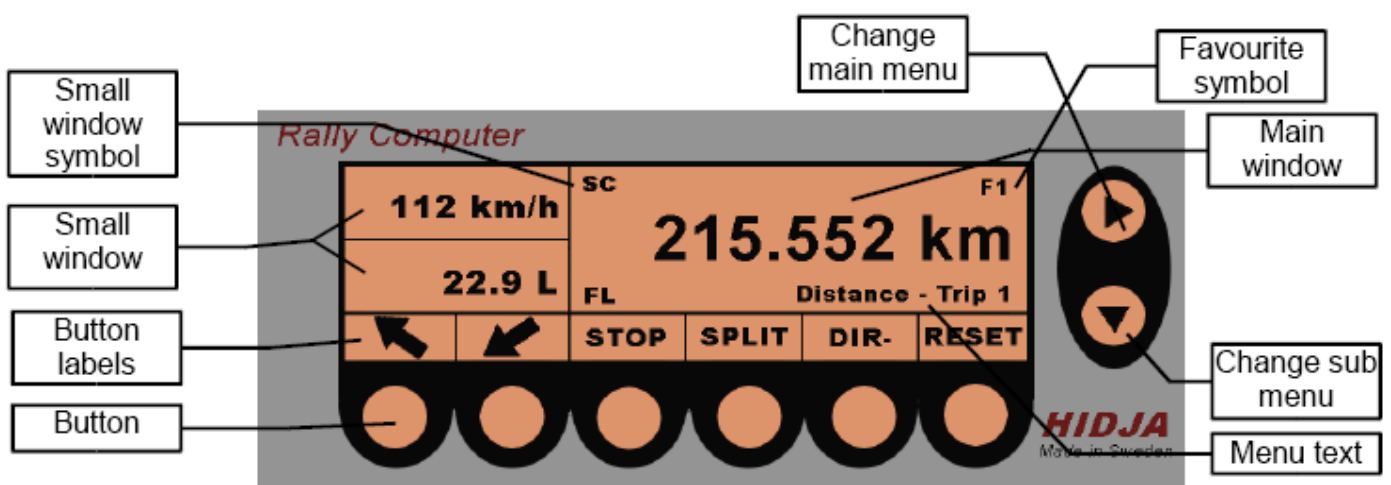
To browse through the menu, use the and buttons on HIDJA RallyComp's right side. is used to move right in the main menu, that is between *Distance*, *Time*, *Speed* and *Car*.



By pressing the first choice of the next main menu's sub category is shown. *For instance:* If *Distance – Trip3* is shown in the main display and

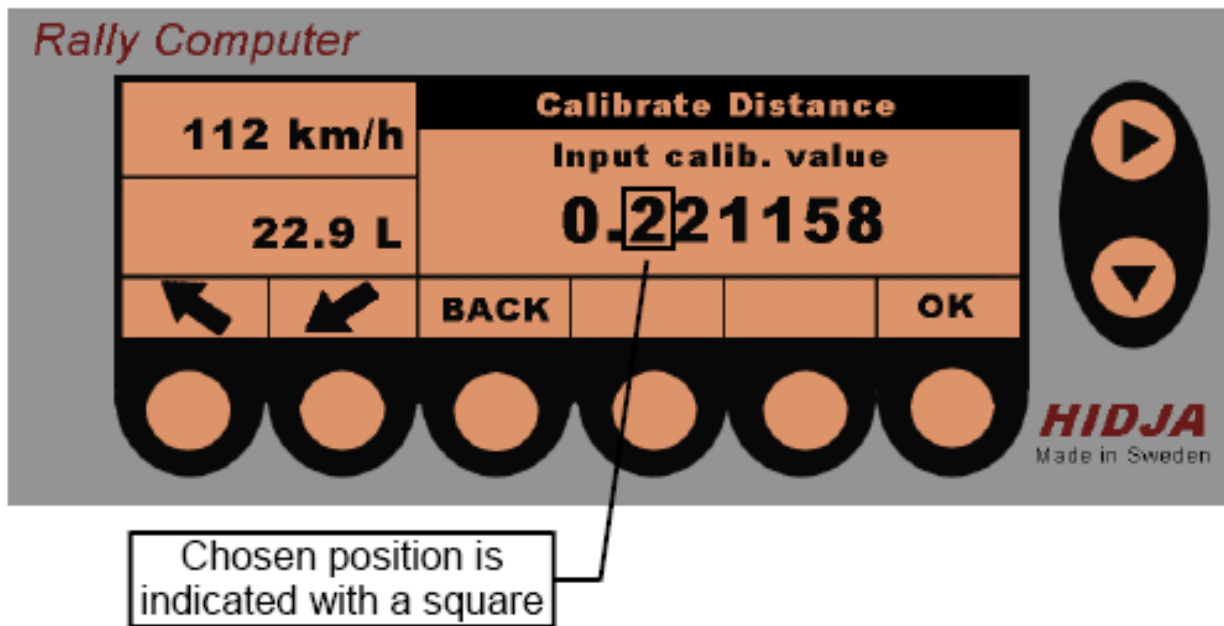
you want to go to *Speed – Max Speed* the pressing sequence would be . If the last category (**Car**) in the main menu is shown and you press  you will automatically be moved back to the first category (**Distance**). By pressing  the next sub menu category will be shown. If the last of the categories in the sub menus is shown and you press  you will automatically be moved back to the first menu category in the chosen menu. This means that you can move both to the right and also down in the menu without getting lost.



5.3 Buttons and labels

The buttons present functions are shown at the bottom of the display just above the buttons. The buttons' functions change depending on what is shown in the main window. Certain buttons' labels are inverted with the intention of clearly showing which of the functions that is activated. The different categories where this function can be activated are **SPLIT**, **DIR-** and **STOP**. The buttons that are used to copy the information from the big window to the smaller windows never change function though.



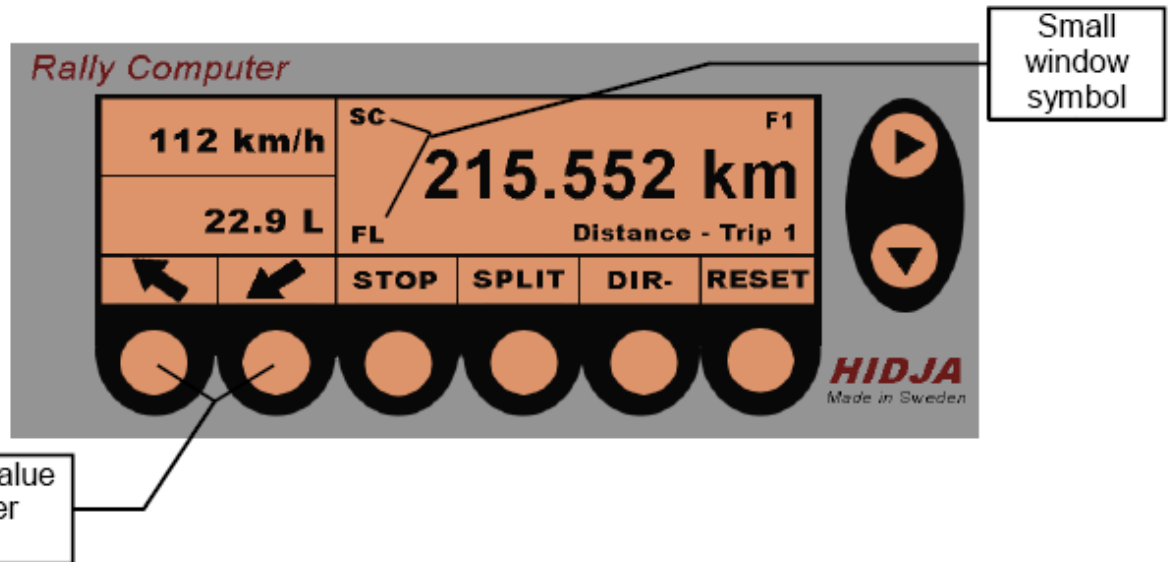
Many of HIDJA RallyComp's functions have the possibility of pre-setting a value which can be setting the tripmeter, set time, pre-setting of calibration value for tripmeters etc. All presetting of values in the tripmeter is done by pressing the buttons on the right of the unit   that are the same buttons that you use when you are navigating through the menu. When setting the meter the display may look like the picture below. The information and functions where pre-setting of value is possible will be explained in detail in chapters to come.



1. One press on  increases the current number, that is marked with a black square, with 1 until it is 9. One more press on the same button will result in the value starting over on 1.
2. When the chosen number has been set the marker will move with  and setting of a new number can then be done.
3. When the setting is finished, press **OK**.

If incorrect values have been set, for instance, for the calibration of the tripmeters, the instrument will notify you with a error message and the calibration has to be done again.

The smaller windows on the left can show all the records that the main window can show. The resolution is slightly lower for some of the records. To copy the records from the main window to the smaller windows use the buttons to the left that are marked.



One press on ↶ copies the current records from the main window to the upper of the two smaller ones. By pressing ↷ the current records are copied from the main window to the lower one of the two windows. When a record have been copied from the main window to a smaller, it will appear an explanation symbol to the right of the smaller window. The meaning of the symbols are shown in the list below.

These buttons can be used at any time while driving. When the Rallycomp is in the setup menu these buttons does not have a function and records can not be copied.

T1 - Trip1
T2 - Trip2
T3 - Trip3
OD - Odometer
ED - ETA Dist
CK - Clock
SS - SS Time
ET - ETA-Time
SC - Speed Current
SA - Speed Average
SM - Speed Max
SL - Speed Limit
SP - Speed Pilot
FL - Fuel

5.6 Special functions for the buttons

When the Rallycomp is in the main menu and not the setup menu, there are a number of buttons with special features. These buttons are:

5.6.1 SPLIT

One press on **SPLIT** freezes all the records on the display so you can easily browse through and write down all the measures. The tripmeters and the stoppage time does not stop but continues counting in the background. One more press on **SPLIT** unlocks the freeze function and the counting continues. All values that were counted while **SPLIT** was activated will be added and no values will be lost. This means that you can press **SPLIT** at any time on a stage without being afraid to loose any information.

5.6.2 DIR-

Trip1, Trip2 or Trip3 are shown in the main window one press on **DIR-** results in that the current tripmeter starts counting backwards. The button then gets inverted so you easily can notice when the function is activated for the current tripmeter. One more press on **DIR-** and the meter starts to count normally again. If any other records than the tripmeters are shown in the main window, this button does not have a function.

5.6.3 STOP

When Trip1, Trip2 or Trip3 are shown in the main menu pressing the button **STOP** results in the current tripmeter stopping and the button then gets inverted so you easily can see that the function is active for the current tripmeter. One more press on **STOP** and the current tripmeter starts counting all again. If any other records than the tripmeters are shown in the main menu this button does not have a function.

5.6.4 RESET

The **RESET** button's main function is to correct value for some of the records. For instance *SS Time*, *tripmeter* and installation of the *Pilot* value. Further information can be found in the chapters below.

Affected functions:

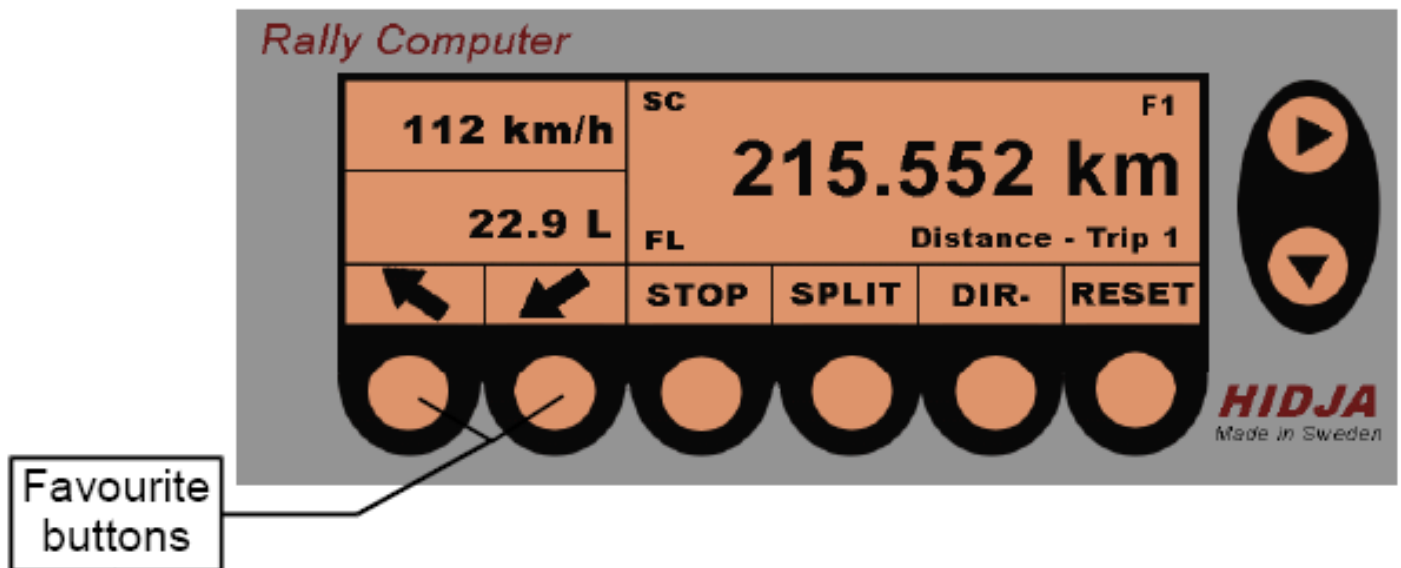
Functions	Chapter
Trip1,2,3	7.1
ETA Dist	7.1.4
SS Time	7.2.2
Average Speed	7.3.2
Limit	7.3.4

If any other record is shown in the main window **RESET** does not have any function.

6 Description of functions

Rallycomp offers a big variety of functions. The special functions *Pilot*, *ETA*, *SS Time* and *Average Speed* are all based on *Trip1* with the intention of receiving all kinds of information regarding a special stage or a transport stage. This means that when you set Trip1 to 0 all mentioned values are also set to 0 in order to make sure that all values are updated at all times. The described records can be presented in different units. Unit change see chapter 8.8.

Rallycomp has two different records for favourites (F1, F2) which means that you easily can go between the two records by pressing the two buttons that copies from the big window to the smaller windows. These buttons are marked on the picture below. One press on the buttons results in that the first favourite (F1) is shown in the display. One more press on the button shows the second record (F2). To switch between the two favourites keep pressing the same button. Define favourites see chapter.



6.2 Distance

There are three tripmeters that can measure distance - Trip1, Trip2 and Trip3. These tripmeters are independent from each other and can be set to 0 or be set to any other value while driving. The reason to this is that you can correct the tripmeters so it matches the roadbook. The resolution of the tripmeters is 1m and can show up to 9999.999 km. The tripmeters can be used to count both backwards and forwards in case you missed a turn etc. The total stage that the vehicle has driven is shown with a odometer with a resolution of 100m.

6.3 Speed

The different functions that can measure speed is current speed (*Current*), average speed (*A.Speed*), maximum speed (*Max*) and limit (*Limit*).

Average speed and maximum speed are calculated from the time that Trip1 was set to 0. *Limit* makes it possible to set the current speed limit

on a road. If your speed exceeds the set speed limit Rallycomp warns you by flashing the backlight. This is very useful especially on transport stages where the speed limit not can be exceeded.

The *pilot* function indicates how much time that has passed compared to the pre-set average speed. The speed indicator can be shown in km/h or miles/h.

6.4 Time

The instrument has a 24h clock that can be used to measure time and shows the time of the day. The time is shown in the format hh:mm:ss. The co-driver can use the stopwatch for automatic measuring on the stages which can make things easier since he/she does not need to press any button to get it started. If Trip1 is set to 0, the stopwatch is also set to 0 and starts counting when the vehicle starts moving. When the stopwatch is stopped, the result is shown in the format hh:mm:ss.t. The *ETA* record shows the estimated time of arrival if the stage in question has been registered in *ETA Dist*. By setting a distance in the *ETA Dist* record, *ETA Time* shows a continuous calculated time of arrival based on the current average speed.

6.5 Fuel meter

The fuel meter shows the remaining amount of fuel in the tank. The amount of fuel can be shown in either liter or gallon. The presentation of the tank volume are much dependent on the tanksensor and the construction of the tank, which is why it is hard to get an exact measuring.

7 Using the functions

7.1 Tripmeter

The Rallycomp has got three different records for distance measuring and those are Trip1, Trip2 and Trip3. The only function that Trip2 and Trip3 have is to measure parts of stages and no other records are connected to those two. Trip1 on the other hand is connected to several different records such as *SS Time*, *Pilot*, *ETA Time* and *Average Speed*.

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All these records are based on Trip1 and in order to get the correct values Trip1 should be reset to 0 when you want to use these records.

All records can be set to 0 individually or set to chosen value. The tripmeters can also count backwards if you need to adjust a missed turn etc. Do not forget that if you set Trip1 to 0 or a new value, the records that are connected to Trip1 will also be affected.

7.1.1 Trip1

Trip1 is the main tripmeter of the Rallycomp and is used to measure stages. Trip1 can preferably be used for automatic measuring of special stages. When Trip1 is resetted all records that are connected to Trip1 is affected. The connected records are:

- ETA Time
- Average Speed
- Pilot
- SS Time
- Max Speed

7.1.1.1 Trip1 Pre-set/Set to 0

To set Trip1 to 0 press **RESET** when Trip1 is shown in the main window. The functions of the buttons change between showing **CLEAR** and **SET**. If **CLEAR** is pressed in, Trip1 is set to 0 and if you press **SET** you have the possibility to set a value for Trip1. To set a value go to chapter 5.4 *Pre-setting a value*. When a value has been chosen press **OK** to continue using the chosen values.

7.1.1.2 Automatic time measuring on special stages

To use Trip1 for automatic measuring on a special stage it is only necessary that the meter is set when the vehicle is standing still at the start of the special stage. All connected records are also set to 0 at that time. When the vehicle starts moving Trip1 also starts automatically and SS Time starts counting from 0. At the finish line press **SPLIT**. The button then gets inverted so you easily can see that the function is activated. This results in that all the records are frozen in the display and you can calmly browse through all values that were registered on that particular stage.

The measuring does not stop but keeps counting in the background. One more press on **SPLIT** results in that the functions stops and the records

in the display are updated. **SPLIT** can be pressed at any time when any of the different menus are shown – except the setup menu.

7.1.1.3 Correction to roadbook

When using the roadbook for rally it might be necessary to match the meter to the roadbook if they do not already match. The correction can be done while driving and the part of the stage that already has been driven while the correction was taking place will be added to the registered value.

Example:

At an intersection the roadbook shows 54.44 km and the Trip1 shows 53.34 km.

Press **RESET** and then **SET**, begin the setting according to chapter 5.4. Set the value to 54.44 km and then press **OK**. Trip1 has now been corrected according to the roadbook. The stage that was driven while the correction was taking place will be added to the registered value and the correct value is then shown in Trip1. This results in that no stage will be missed while correcting a value.

STOP stops the measuring with Trip1 when this is shown in the main window.

7.1.2 Trip2 och Trip3

Measuring distance with Trip2 and Trip3 is not different from Trip1 apart from that there are no other records connected to Trip2 and Trip3.

Correction of roadbook, set to 0 etc. is done in the same way as for Trip1.

It is not possible to measure automatically with Trip2 or Trip3.

7.1.3 Odo

The odometer is a meter that measures distance and it shows the total stage that the vehicle has been driven from the time that the Rallycomp was installed. It is not possible to set the odometer to 0 or to correct its value.

ETA Dist is used to calculate ETA Time (Estimated time of arrival). ETA Dist is set in the same way as Trip1,2 and 3. When a stage is set in the ETA Dist the estimated time of arrival is calculated continuously and this is shown in the menu ETA Time.

7.2 Time

To measure time there is a clock that shows the time of the day, a stopwatch (SS Time) for special stages and ETA Time.

7.2.1 Clock

Shows the time of day in a 24-hour format. To set the clock, see 8.3.

7.2.2 SS Time

SS Time is a stopwatch that is used on special stages and is strongly connected to Trip1. It shows hours, minutes, seconds and tenth of seconds. When Trip1 is set to 0, the SS Time is also set to 0 and automatic measuring can be made, see .

7.2.3 Setting SS time to 0

When SS Time is shown in the main window you can at any time set it to 0 by pressing **RESET** which means that it starts counting from 00:00:00.0. If the vehicle is standing still SS Time will not start counting until the vehicle starts moving.

When setting the SS Time to 0 this does not affect any other record in the Rallycomp but the Average Speed Pilot and ETA Time. Those two might show incorrect values since those are based on SS Time. In order to get the correct values of these records Trip1 should be set to 0.

7.2.4 ETA Time

ETA Time or Estimated Time of Arrival shows the calculated time of arrival. This provides that the clock is set correctly, that a stage is registered in ETA Dist and that Trip1 was set to 0 when the process started.

To calculate ETA Time the procedure is as follows:

1. Set Trip1 to 0 see .
2. Go to *Distance – ETA Dist* in the menu.
3. Press **RESET**.
4. Press **SET**.
5. Register the distance to your destination.
6. Press **OK**.
7. Go to *ETA Time* in the menu.

Your estimated time of arrival is now showing continuously. When the clock and ETA Time shows the same time, you should have arrived at your destination.

7.3 Speed

7.3.1 Current

A speed indicator that shows momentary speed.

7.3.2 Average Speed

Average speed on a particular stage or a certain time which is calculated on Trip1 and SS Time. To get the correct value Trip1 should be set to 0 at the beginning of the measuring. Average Speed has a possibility to set new value to Average Speed Pilot, see 7.3.5.1. The upper right corner shows the set value in the Pilot record.

7.3.3 Max

Shows the maximum speed limit from the time that Trip1 was set to 0.

7.3.4 Limit

Limit warns when the current speed exceeds the limit value. To use *Limit* follow the procedure:

1. Go to *Speed – Limit* in the menu.
2. Press **RESET**, Rallycomp shows 000.00
3. Start by setting the chosen speed limit.
4. Press **OK**.

Rallycomp is now supervising your speed and warns you if you exceed the speed limit. It warns you by flashing its backlight and inverting displaymode twice every second with maximum intensity. To set *Limit* go through steps 1-4 above.

7.3.5 Pilot

Shows how you are driving compared to the average speed that is pre-set in the *Pilot* record. Setting of the *Pilot* value takes place in *Average Speed* in the Speed record.

7.3.5.1 Setting of Pilot - speed

To set *Pilot – Speed* follow these steps:

1. Go to *Speed – A.Speed* in the main menu.
2. Press **RESET**.
3. Set the chosen value for speed in the Pilot record, to set see. Chapter 5.4.
4. Press **OK**.
5. Go to *Speed – Pilot* in the menu.

It is now calculated how much time has passed compared to the average speed that was set in the *Pilot* record. The estimated time is shown in the format +- hh:mm:ss.

7.4 Car

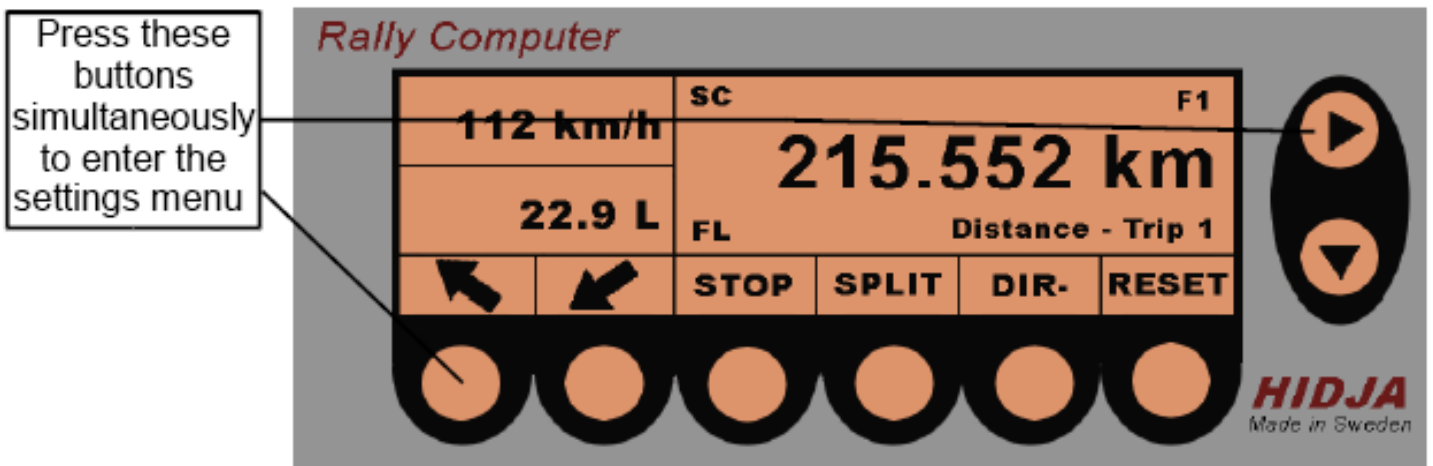
7.4.1 Fuel

Shows how much fuel that remains in the tank provided that a fuel sensor has been installed in the tank. The Rallycomp has to be calibrated before you can get any values. To calibrate the fuel meter see 8.2, to install the fuel sensor see 3.1.

8 Calibration and installation

All installations take place in the setup menu which is accessible by pressing the two buttons that are marked with circles on the picture below at the same time.

When you are in the menu you can find all installations and calibrations functions' that are needed to work with Rallycomp in a simple way. How these installations and calibrations are carried through is explained in detail below.



All calibrations and installations can be interrupted by pressing **BACK**. Some functions in the smaller windows does not get updated when the setup menu is active.


8.1 Calibration of tripmeter

In order for the Rallycomp to show correct values for the tripmeters, the meter has to be calibrated. The meter should be calibrated if it is installed in another vehicle or when the vehicle's qualities are changed, for instance when changing to a different wheel size. You can choose to calibrate while driving an already known stage and then set the length of the stage. The Rallycomp then calculate a calibration value based on that data and presents it in the display. The calibration value is based on several factors and should be written down in case you might need to calibrate again. Calibration can be made at any time while driving and you do not need to stop.

You can also set a calibration value manually that you received from a previous calibration while driving.

8.1.1 Calibration while driving

To calibrate the meters while driving follow these steps:


1. Start the calibration by going to the setup menu, see chapter 8.
2. Go with  until *1.Calibrate Distance* is shown in the display.
3. Press **OK**.
4. When you get to the start on the stage you want to measure press **START**. Rallycomp then shows: ---- DRIVE ---- and the current calibration value.
5. When you get to the finish of the chosen stage immediately press **LENGTH**.
6. The Rallycomp then shows 0000.000 and it is now time to set the length on the stage you drove, see Setting of values chapter 5.4.
7. When the length has been set press **OK**.
8. The new calibration value is now shown in the display. Press **OK**.
9. Exit the setup menu by pressing **BACK**.

The tripmeters have now been calibrated and you should check its accuracy by driving the calibration stage and check if the length of the stage is exact. Even if the power is cut the calibration value stays in the meters memory. Calibration should be made again if the tires are changed for instance.

8.1.2 Manual setting of calibration value

The calibration value can be set manually into the Rallycomp.

The procedure is as follows:

1. Start the calibration by entering the setup menu, see chapter 8.
2. Go with  until *1.Calibrate Distance* is showing in the display.
3. Press **OK**.
4. Press **SET**.
5. Set the new calibration value, see Setting of values chapter 5.4.
6. Press **OK**.
7. The new calibration value is now shown in the display.
8. Press **OK**.
9. Exit the setup menu by pressing **BACK**.

The new calibration value is now saved in the memory and will be saved when the power is cut.


8.2 Calibration of the fuel meter

Calibration of the fuel meter is done in 5 steps. The first step sets the empty level, the remaining steps fill the tank in user defined volumes and fills the tank up on step 4. After each filling step you enter the volume you filled in the tank to the meter.

8.2.1 Calibration of the level of the fuel meter

When calibrating fuel, you should start by setting the empty level and then filling the tank until it is full on step 4. Before you start the calibration you should decide the volume of your filling steps, you can decide the volume of your own steps. Remember to not empty the tank completely because most tank sensors do not give any reading until a few liters are in the tank.

Calibration is done as follows:

1. Start by entering the setup menu, see chapter 8.
2. Step with  until "Calibrate fuel" is showing in the display.
3. Press **OK**.
4. Press **START**.
5. Press **OK** to set the empty level.
6. Fill fuel in the tank, and after press **OK**.
7. Enter the volume you filled.
8. Press **OK**.
9. Repeat procedure 6-8 until "calibration ready" is showing in the display.
10. Tryck på **OK**.

The fuel function is now calibrated and stored in memory.

Example:

Calibrating 60L tank. By experience we know that our tank sensor need 3L fuel in the tank to give a reading, we start the calibration with that volume, and calibrate to 50L.


Calibration begins, empty level is set.

1. Step 1. 10 L are filled into the tank and set.

2. Step 2. 10 L are filled into the tank and set.
3. Step 3. 15 L are filled into the tank and set.
4. Step 4. 15 L are filled into the tank and set, *calibration ready!*


8.3 Set clock

To set the clock follow these steps:

1. Start the installation by entering the setup menu, see chapter 8.
2. Go with  until 2. *Set Clock* is showing in the display.
3. The installation of the clock is done by a regular setting, see *setting of values* chapter 5.4.
4. Press **OK**.
5. Exit the setup menu by pressing **BACK**.

The clock has now been set and will be remembered in the installation even if the power is cut.


8.4 Adjusting the contrast level of the display

1. Start the installation by entering the setup menu, see chapter 8.
2. Go with  until 5. *Set Screen Contrast* is showing in the display.
3. Press **OK**.
4. Increase the contrast by repeated pressing the **+** button. Decrease the contrast by repeated pressing the **-** button.
5. When chosen contrast has been achieved press **OK**.
6. Exit the setup menu by pressing **BACK**.

The contrast has now been set and will be saved in memory.

8.5 Adjusting the backlight of the display


The display's backlight is adjusted by the following procedure:

1. Start the installation by entering the setup menu, see chapter 8.
2. Go with  until 5. *Set Backlight* is showing in the display.
3. Press **OK**.
4. Increase the intensity by repeated pressing the **+** button. Decrease the intensity by repeated pressing the **-** button.
5. When chosen intensity is achieved press **OK**.
6. Exit the setup menu by pressing **BACK**.

The backlight's intensity has now been set and will be saved in memory even if the power is cut.

8.6 Defining favourites


To Define favourites follow this procedure:

1. Choose the records that you want as your favourites in the main window and in the smaller windows. See, *copy records from main window to smaller windows*, chapter 5.
2. Enter the setup menu, see chapter 8.
3. Go with  until 3. *Set Favorites* is showing in the display.
4. Press **OK**.
5. Press either **FAV1** or **FAV2**.
6. A message that the chosen favourite has been set is showing in the display.
7. Press **OK**.
8. Exit the setup menu by pressing **BACK**.

The chosen favourite has been saved in memory and will be saved even if the power is cut. To set the second favourite repeat steps 1-8.

8.7 Inverting the display

To invert the display follow the procedure:


1. Start the installation by entering the setup menu, see chapter 8.
2. Go with  until 4. *Set Screen Mode* is showing in the display.
3. Press **OK** to invert the display, press **OK** once more to invert the display again.
4. Exit the setup menu by pressing **BACK**.

The display's installation is now saved and will be saved in memory.

8.8 Change distance unit

The Rallycomp can be set to show either Distance kilometer / miles , volume Litre / gallon.

To change units follow this procedure:

1. Start the setting by entering the setup menu, see chapter 8.
2. Go with  until 4. *Change Units* is showing in the display.
3. Press **OK**.
4. Press **Dist** to change distance unit, press **Volume** to change volume unit.
5. Press **OK** when you have chosen the unit that you want.
6. Exit the setup menu by pressing **BACK**.


Chosen unit will be saved in memory and will be saved even if the power is cut. You do not need to calibrate the tripmeters again if you change unit. To receive correct values it is important that you change unit *before* you calibrate the tripmeters.

When delivered the Rallycomp will be set on kilometre / litre.

8.9 Remote control

This is where you change the trigger and functions on Remote Control (blue cable) resp. change trigger mode on the External Reset (orange cable). You can change if the button should trigger the function in either pressed or released mode.

To change the way the remote control works simply enter the setup menu, see chapter 8.

1. Go with  until 9. *Remote Control* is showing in the display.
2. Press **OK**.
3. Select which cable function you would like to change: REMOTE (blue cable), RESET (orange cable).
4. In case you select REMOTE in step 3 you can select which function an activated cable should have (STOP, SPLIT or NONE) as well as when this function should be activated (Triggered on) Press or Released button.
5. If you select RESET in step 3 you only select how the reset should be triggered on, press or release.
6. When you are satisfied with your selections press **OK** to activate the new settings.

9 Error message

"Const. can not be 0, Value not changed"	Calibration is not approved, incorrect setting of calibration stage.
"Calibration error, Value not changed"	Calibration is not approved, the meter has not registered pulses to count the distance. Control the function of the pulse sensor.
"Fuel Calibration error"	<ul style="list-style-type: none">• No signal, control the connection and the function of the sensor.• Amount filled is too little, the sensor's signal has not noted any difference.• Incorrect number of fillings.

10 Technical data

Rel 1.3

10.1 Physical data

Weight: **370 g**

Length: **150 mm**

Width: **75 mm**

Depth: **30 mm**

Material: Black eloxal aluminum

The product has been tested accordingly to CE standard and is CE certified.

Power consumption: 100mA.

Power consumption sleep mode: 20mA.

11 Environment

Rallycomp contains a Lithium-battery which has to be removed and left to recycling when the product's lifecycle has ended. The lifecycle of the battery is estimated to 10 years. Other parts are left as electronics.

