



User Booklet



RaliTripp Tripmeter



RaliTripp

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RaliTripp Overview

Summary



- RaliTripp is an easy to use, but sophisticated, modern rally tripmeter with multiple trip distance and stopwatch displays shown on a 5" colour and touch sensitive TFT display. RaliTripp has 9 main modes, each with a dedicated screen, targeted at a particular type of rally or for different parts of the same rally:
 - **Road** – for general road navigation, road sections between stages etc
 - **Rally** – for road rallies
 - **Regularity** – for regularity rallies or regularity sections in other rallies
 - **Jogularity** – for jogularity rallies or jogularity sections in other rallies
 - **Stage** – for stage rallies
 - **Due Time** – for seeing how early/late it is from a set due time
 - **Time** – for a simple display of rally time
 - **Totals** – for a simple display of total distances accumulated
 - **Service** – for service area timing.
- RaliTripp can be configured to not show vehicle speed, ensuring it can be used on all events without penalty. **RaliTripp cannot display average speed in any way.**
- Up to 4 sensors can be wired to RaliTripp at once, each with its own calibration value (up to 99,999 pulses per mile/km) and the displays can be switched on-the-fly to show distances in miles or kilometres, and speeds in mph or kph, without changing calibration values.
- There is a comprehensive set of easy to use screens to configure, for example, rally time, sensors and their calibration values, screen features, colours etc.
- An external remote switch unit minimises the need to touch RaliTripp during competitive sections. Optional, driver-oriented, colour TFT displays and remote units are also available.

RaliTripp Overview Main Components

Power

Main battery



Auxiliary battery *



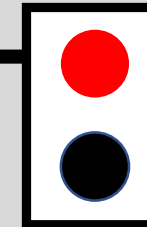
Main Display



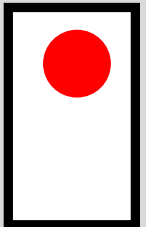
Remote Display*



Remote Units



and/
or



Navigator

Driver*



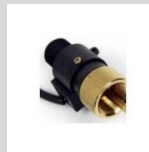
Sensor 1

Inductive Proximity



Sensor 2

Inductive Proximity



Sensor 3

Speedo/gearbox/pulse



Sensor 4

Speedo/gearbox/pulse

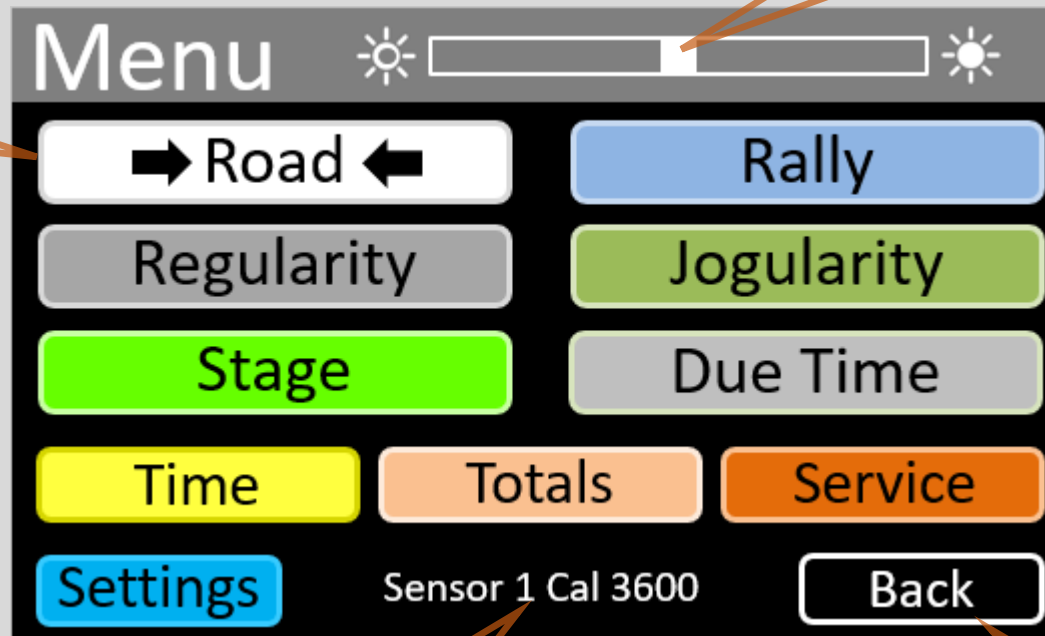
Sensors (4 maximum)

(*) = optional

RaliTripp Overview

Menu

Press menu item to select current mode



! "Settings/Options/Menu" can be used to select which of the six top modes are shown on the menu

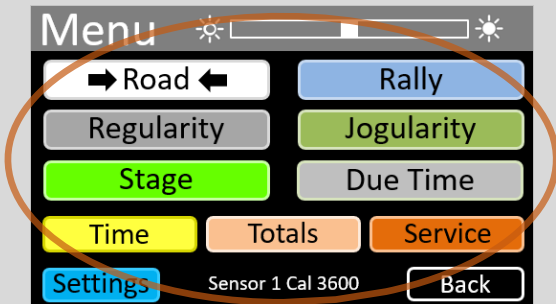
Current active sensor and its calibration setting

Return to current mode

RaliTripp Overview

Current Mode

- RaliTripp always has a **current mode** – Road, Rally, Regularity, Jogularity, Stage, Due Time, Time, Totals or Service – which is selected from the main menu and indicated by the mode's menu button containing a pair of arrows
- The **current mode** always increments its tripmeters (if it has any) when the vehicle moves, even if its main screen is not being displayed e.g. if the current mode is Road, and the rally time is being adjusted in the “Settings/Rally Time” screen, or the Service Setup screen is being used, the Road trip meters will continue to update in the background as the vehicle moves
- **Modes other than the current mode** will also increment their tripmeters when the vehicle moves, even if their main screen is not being displayed, if the “Mode is always active” option on their Options screen is set to yes. For example, if:
 - “Road Mode is always active” and “Stage Mode is always active” are both set to yes on their respective Options screens
 - ...then any distance accumulated on the Stage tripmeter, while it is the current mode, will also be accumulated on the Road tripmeters even though they are not being displayed – and any distance accumulated on the Road tripmeters, while it is the current mode, will also be accumulated on the Stage tripmeter when it is active
- All stopwatches and clocks across the whole of RaliTripp run all the time, irrespective of which mode is current or which screen is being displayed



Common items - screen headers

Low main battery warning. Use **"Settings/Options/General"** to set low voltage value

! Warning is for main battery only

Rally Time

12:34:56



Options...

Sim

30^{S4}
mph

Simulated speed indicator. Use **"Settings/Simulation"** to turn on/off and set speed value. Press to toggle speed between 0 and the set value

! Sensor input signals are ignored when in Simulated Speed mode

! Simulated Speed is very useful in "getting to know" RaliTripp outside of the vehicle/an event. Toggling the speed between 0 and the set value can be used to simulate starting and stopping the vehicle

Current active sensor. Use **"Settings/Select Active Sensor"** to change

Open the **"Options"** page relevant to the mode

Current speed

Current speed units. Use **"Settings/Display"** to change between mph/kph

Common items – main screen (1)

Long press on screen to reset indicated values

!OR

Long press on remote unit red button to reset indicated values

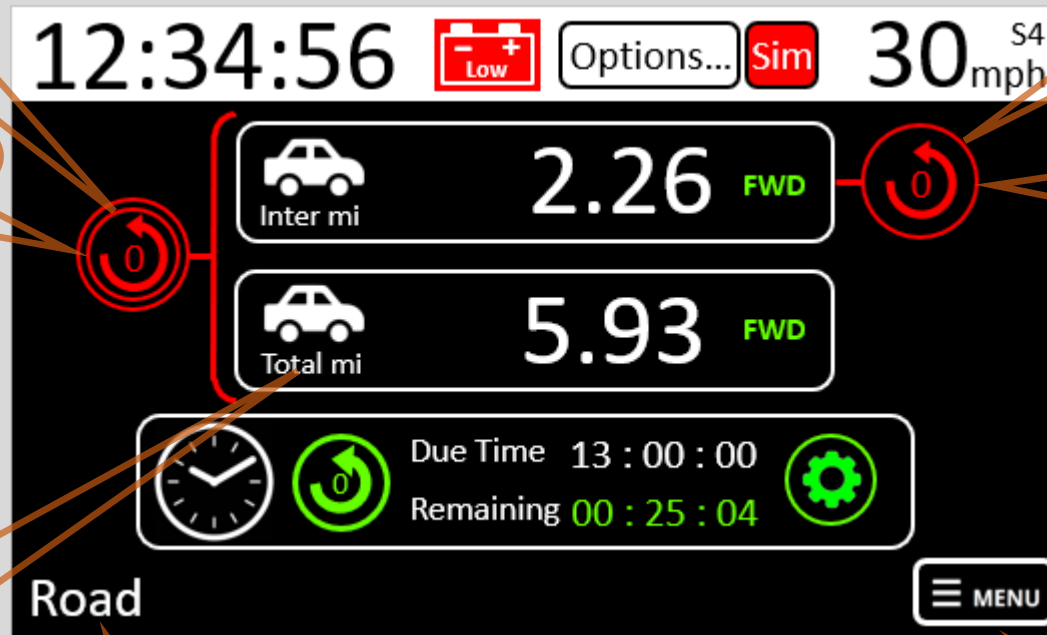


!! A LONG press on the remote unit RED button activates any "double ring" reset button



Current distance units for trips. Use "Settings/Display" to change between mi/km

Name of mode



Short press on screen to reset indicated values

!OR

Short press on remote unit red button to reset indicated values



!! A SHORT press on the remote unit RED button activates any "single ring" reset button



Open "Menu" screen

Common items – main screen (2)

Total Trip value. Use “Settings/Display” to change between showing 1 or 2 decimal places and/or change colour

! Total Trip values go up to 999.99 then rollover to 0.00

!! A change of Trip direction affects all trips in all modes

Trip direction. Long press on screen to cycle around FWD/HOLD/REV

! OR

Trip direction. Short press on remote unit black button to cycle around FWD/HOLD/REV

!! A SHORT press on the remote unit BLACK button cycles the Trip direction for the whole of RaliTripp around FWD/HOLD/REV



Stopwatch action. If showing green triangle, press to start stopwatch. If showing yellow bars, press to stop stopwatch.

Stopwatch value in h:mm:ss. Use “Settings/Display” to change between leading zeros being shown or not and/or change colour

! Stopwatch values go up to 9:59:59, unless stated, then rollover to 0:00:00

Open a new screen relevant to current mode



Common items – main screen (3)

Short press on screen to zero the displayed value

Open a screen to manually set the displayed value via an on-screen keypad

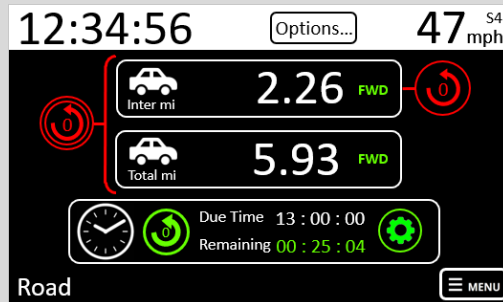
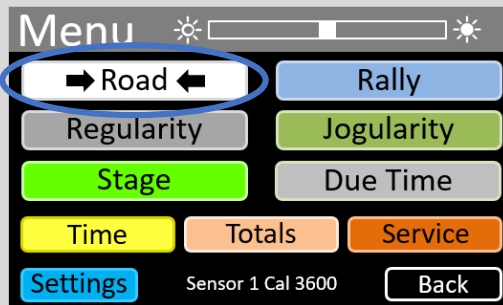


Intermediate Trip value. Use "Settings/Display" to change between showing 1 or 2 decimal places and/or change colour

! Intermediate Trip values go up to 999.99 then rollover to 0.00

Stopwatch value in mm:ss. Use "Settings/Display" to change between leading zeros being shown or not and/or change colour

Road Mode Overview



- **Road Mode** provides two independent trip distances and a countdown timer to a due time, for example, a stage arrival time, or a service park arrival time.
- The mode can be used on simple non-competitive touring events as well as between, for example, special stages on stage rallies, competitive sections on road rallies or regularity sections on regularity rallies.

Road Mode Screen Navigation

12:34:56 Options... 47 ^{S4} mph

Inter mi 2.26 FWD

Total mi 5.93 FWD

Due Time 13:00:00
Remaining 00:25:04

Road MENU

Options - Road

Top trip display shows Inter Total

Road Mode always active Yes No

Back

Set Due Time

Rally Time 12:34:56

Due Time 13:00:00

1	2	3
4	5	6
7	8	9
0	CLR	

Road Set and back Cancel

Road Mode

Road

The screenshot displays the Road Mode interface with the following elements:

- Top left: Time 12:34:56
- Top center: Options... button
- Top right: Speed 47 ^{S4} mph
- Middle section:
 - Inter mi: 2.26 FWD (with a red circular refresh icon)
 - Total mi: 5.93 FWD
- Bottom section:
 - Due Time: 13:00:00
 - Remaining: 00:25:04 (with a green gear icon)
- Bottom left: Road label
- Bottom right: MENU button

Clear due and remaining times

Open "Set Due Time" screen

Due Time – set in "Set Due Time" screen

Remaining Time i.e. Due Time – Rally Time

! Remaining Time is green if Due Time is "in the future", or red if Due Time is "in the past"

! If Due Time is not set, the lower part of the Road mode screen on the Remote Unit is not shown

Road Mode

Set Due Time

Set Due Time

Rally Time 12:34:56

Due Time 13:00:00

1	2	3
4	5	6
7	8	9
0	CLR	

Road Set and back Cancel

Callouts:

- Rally Time
- ! Rally Time is continuously updated
- Enter Due Time via keypad keys
- Due Time value set via keypad
- Set Due Time to --:--:--
- ! --:--:-- indicates due time not set; 00:00:00 indicates a due time of midnight
- Return to "Road" screen, setting Due Time
- Return to "Road" screen without setting Due Time

Road Mode Options

The top trip on the "Road" screen shows the Intermediate trip

The "Road" trip meters, and the Road totals on the "Totals" page, always accumulate distance, even if Road is not the current mode

Options - Road

Top trip display shows

Inter

Total

Road Mode always active

Yes

No

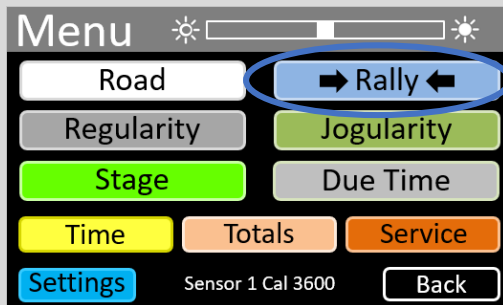
The top trip on the "Road" screen shows the Total trip

The "Road" trip meters, and the Road totals on the "Totals" page, only accumulate distance when Road is the current mode

Back

Return to "Road" screen

Rally Mode Overview



- **Rally Mode** provides a single tripmeter and stopwatch and is ideal for use on road rallies.
- The mode operates in a Start/Finish/Done cycle to allow easy timing of a competitive section.
- The stopwatch can be set to count down from a set time (e.g. the time allowed on a competitive section), or count up from zero.
- If the stopwatch is counting down and reaches zero, it then starts to count up (and is displayed in red), thus showing your “lateness” into the time allowed.
- The **Save...** button allows up to 36 stopwatch values to be saved, and auto-totaled on a separate screen.

Rally Mode Screen Navigation

12:34:56 Options... 0 ^{S4} mph

Start

Total mi 0.00 FWD

Total 0:00:00

Rally Set Stopwatch... Save... MENU

Options - Rally

Total Saved Time units hh:mm:ss ss

Zero trip on Start Yes No

Rally Mode is always active Yes No

Back

Set Stopwatch

Time 00:00:00

Up Down

1	2	3
4	5	6
7	8	9
0	CLR	

Rally Set and back Cancel

Total Time 25:30

Time to save: 0:05:17 Edit Time...

1 x 0:06:58 ✓	5 x ✓	9 x ✓
2 x 0:18:32 ✓	6 x ✓	10 x ✓
3 x ✓	7 x ✓	11 x ✓
4 x ✓	8 x ✓	12 x ✓

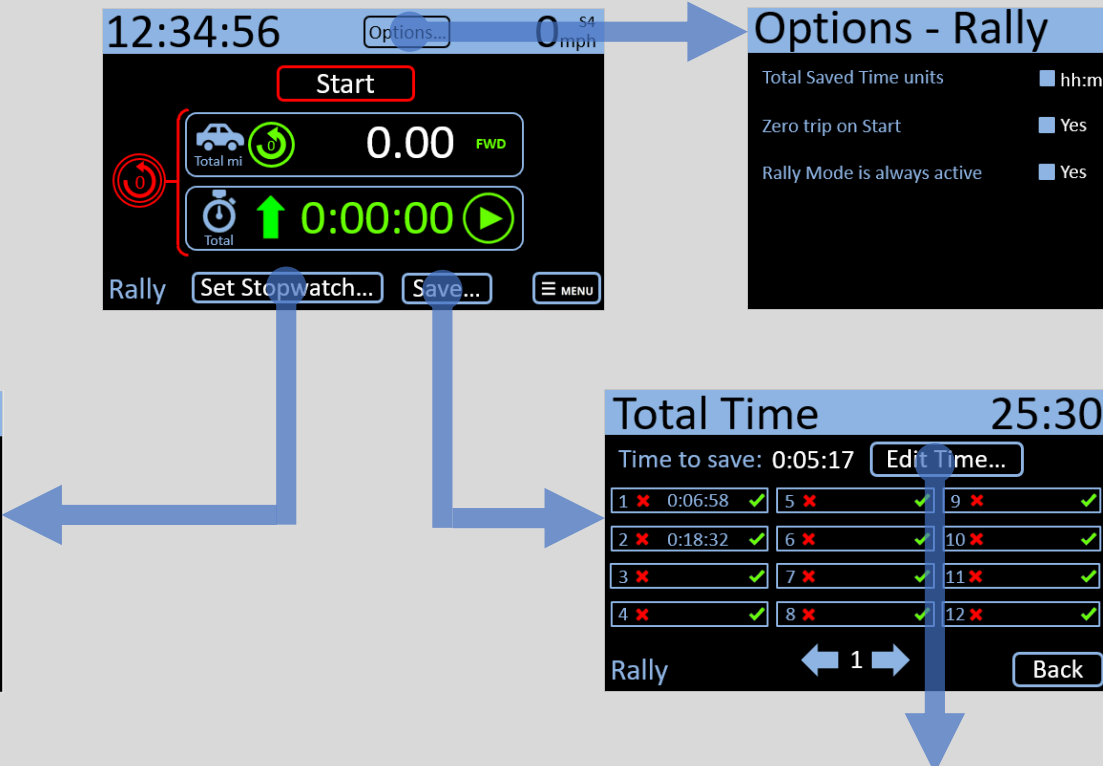
Rally ← 1 → Back

Edit Time

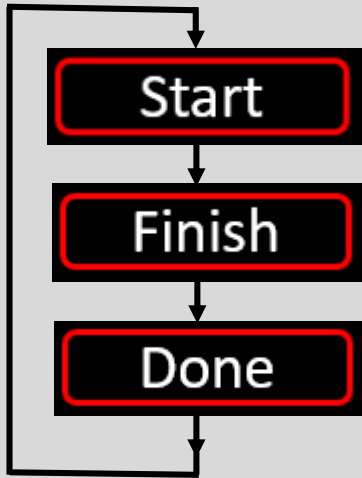
Time 0:05:17

1	2	3
4	5	6
7	8	9
0	CLR	

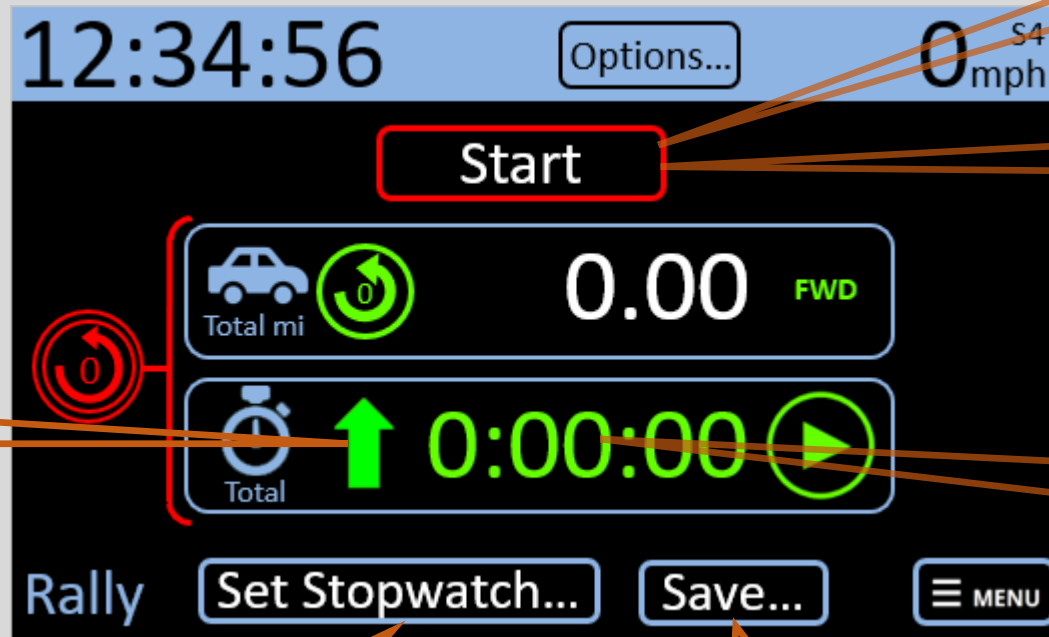
Rally Set and back Cancel



Rally Mode Rally



Start: Starts stopwatch, resets Total Trip if the corresponding option is set to "Yes"
Finish: Freezes Rally Time, Total Trip and Stopwatch
Done: Unfreezes Rally Time, Total Trip and Stopwatch, zeroes Total Trip and Stopwatch



Short press on screen to cycle Start/Finish/Done

! OR

Short press on remote unit red button to cycle Start/Finish/Done

Stopwatch direction – up or down

! Arrow is red if stopwatch has gone past 00:00:00 (when counting down)

Stopwatch value. Colour is red if counting down and has gone past 00:00:00

Open "Set Stopwatch" screen to preset stopwatch value and direction

Open "Save" screen to save current stopwatch value

! Rally Time, Total Trip and Stopwatch are light blue when frozen

Rally Mode

Set Stopwatch

The screenshot shows the 'Set Stopwatch' screen with the following elements and callouts:

- Stopwatch Time value set via keypad:** Points to the 'Time' display showing '0:16:00'.
- Enter Stopwatch Time via keypad keys:** Points to the numeric keypad.
- Set Stopwatch Direction to up:** Points to the 'Up' button.
- Set Stopwatch Direction to down:** Points to the 'Down' button.
- Return to "Rally" screen, setting Stopwatch Time and Direction:** Points to the 'Set and back' button.
- Return to "Rally" screen without setting Stopwatch Time or Direction:** Points to the 'Cancel' button.
- Set Stopwatch Time to 0:00:00:** Points to the 'CLR' button.

The screen displays the title 'Set Stopwatch' at the top. Below it, the 'Time' is shown as '0:16:00'. To the right is a numeric keypad with digits 1-9, 0, and a 'CLR' button. Below the keypad are 'Up' and 'Down' buttons. At the bottom are 'Set and back' and 'Cancel' buttons. The word 'Rally' is visible in the bottom left corner of the screen.

Rally Mode

Save Time

Initial stopwatch value from Rally mode main screen, or edited value after using "Edit Time" screen

Total of all saved times on all 3 pages i.e. total event time

Location/section number

Up to 36 saved times in 3 pages of 12

Delete time from location

Save time in location

Show previous 12 stored times

Show next 12 stored times

Open "Edit Time" screen to change time value to be saved

! "Edit Time" can be used to save real/notional/penalty times not measured on the Rally mode main screen

Return to "Rally" screen

Total Time 25:30

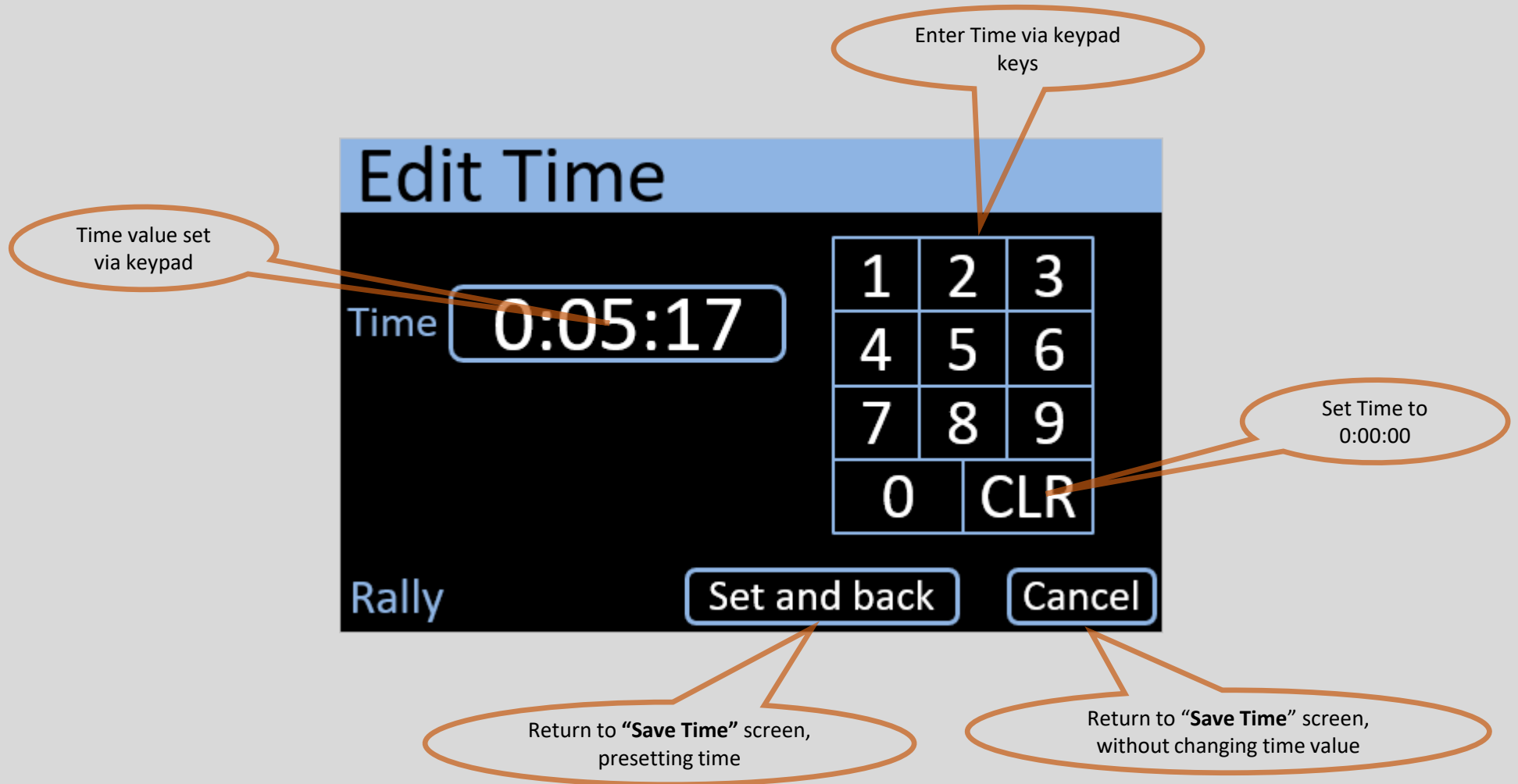
Time to save: 0:05:17 **Edit Time...**

1 X	0:06:58	✓	5 X	✓	9 X	✓
2 X	0:18:32	✓	6 X	✓	10 X	✓
3 X		✓	7 X	✓	11 X	✓
4 X		✓	8 X	✓	12 X	✓

Rally ← 1 → **Back**

Rally Mode

Edit Time



Rally Mode Options

Total time on "Save Time" screens is in hh:mm:ss

Trip is zeroed when Start is pressed on "Rally" screen

The "Rally" trip meters, and the Rally totals on the "Totals" page, always accumulate distance, even if Rally is not the current mode

Total time on "Save Time" screens is in seconds

Trip is not zeroed when Start is pressed on "Rally" screen

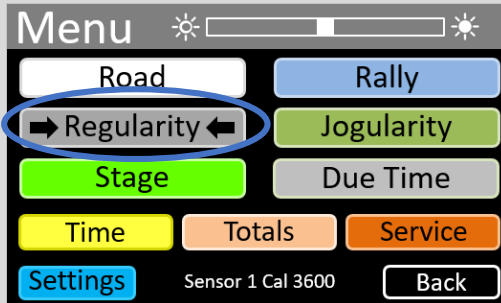
The "Rally" trip meters, and the Rally totals on the "Totals" page, only accumulate distance when Rally is the current mode

Options - Rally

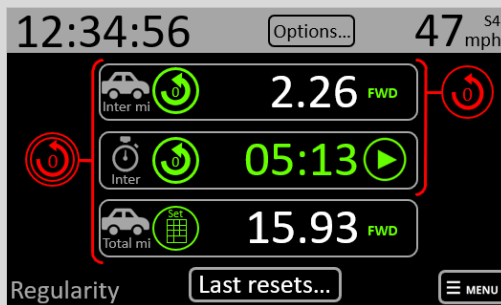
Total Saved Time units	<input checked="" type="checkbox"/> hh:mm:ss	<input type="checkbox"/> ss
Zero trip on Start	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Rally Mode is always active	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Back		

Return to "Rally" screen

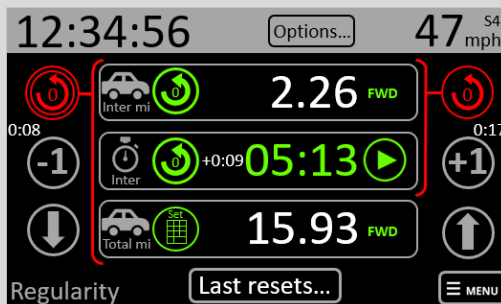
Regularity Mode Overview



Basic



Advanced



- Regularity Mode** is for regularity sections where one or more average speeds (calculated via displayed intermediate or total trips and stopwatch time, plus external “speed tables”) have to be maintained until a (normally “secret”) regularity time control or checkpoint is met.
- Regularity Basic Mode** shows a resettable pair of displays comprising an intermediate stopwatch and an intermediate trip, plus a total distance trip. On reaching a time control, the intermediate stopwatch and trip can be reset at the same time and the intermediate stopwatch starts counting immediately, indicating the time taken for the next regularity section has already started. Optionally the Rally Time and intermediate stopwatch can be frozen for a, selectable, preset time. The last 5 values of the intermediate stopwatch and trip at the time of the reset are stored and can be accessed from a “Last Resets” screen.
- Regularity Advanced Mode** is identical to Basic Mode, but allows the total trip and intermediate stopwatch to be “nudged” up or down to allow for roadbook or other measurement inaccuracies within a section. The total trip can also be set to a specific value if the number of “nudges” required to correct it are too large.

Regularity Mode Screen Navigation

Advanced

12:34:56 Options... 47 ^{S4} mph

0:08 2.26 FWD 0:17

+0:09 05:13

15.93 FWD

Regularity Last resets... MENU

Basic

12:34:56 Options... 47 ^{S4} mph

2.26 FWD

05:13

15.93 FWD

Regularity Last resets... MENU

Options - Regularity

Mode operation Advanced Basic

Stopwatch reset value 0

Rally Time freeze on reset 30

Show L(ate) and E(arly) labels (Advanced only) Yes No

Regularity Mode is always active Yes No

Back

12:34:56 47 ^{S1} mph

Live Total 15.93

Set New Total 016.10

Live Inter 05:13

1	2	3
4	5	6
7	8	9
0	CLR	

Regularity Set and back Cancel

12:34:56 47 ^{S1} mph

	Rally Time	Inter Trip	Inter Watch
1.	12:34:11	4.95	11:25
2.	12:22:46	3.95	10:46
3.	12:12:00	0.00	00:00
4.			
5.			
	9.53	0.63	00:45

Back

Main Screen - Advanced

Number of seconds to set Intermediate Time to on reset of the stop watch. Use "Options" screen to change the value

Number of seconds before Rally Time and Intermediate trip unfreezes after reset. Use "Options" screen to change the starting value

Net number of seconds that Intermediate Time has been adjusted by

Number of minutes:seconds that Intermediate Time has been decreased by

Number of minutes:seconds that Intermediate Time has been increased by

Manually increase Intermediate Time by one second

Manually increase Intermediate Time by one second

Manually decrease Total Distance to next 0.01/0.1, depending on display settings

Manually increase Total Distance to next 0.01/0.1, depending on display settings

Open "Last resets" screen to show Rally Time, Intermediate Time and Intermediate Distance of last 5 resets



!! Stopwatch value goes up to 59:59 then rolls over to 00:00

!! Rally Time and Intermediate Time are light blue when frozen

Regularity Mode

Main Screen - Basic

Number of seconds to set Intermediate Time to on reset of the stop watch. Use **"Options"** screen to change the value

Number of seconds before Rally Time and Intermediate trip unfreezes after reset. Use **"Options"** screen to change the starting value



!! Stopwatch value goes up to 59:59 then rolls over to 00:00

!! Rally Time and Intermediate Time are light blue when frozen

Open **"Last resets"** screen to show Intermediate Time and Intermediate Distance of last 5 resets

Regularity Mode Set Total Distance

Current value of Total Trip on "Regularity" screen

Enter New Total via keypad keys

! Live Total is continuously updated

12:34:56 47 S1 mph

🚗 Live Total 15.93

Set New Total 016.10

🕒 Live Inter 05:13

Regularity

1 2 3
4 5 6
7 8 9
0 CLR

Set and back Cancel

New Total value set via keypad

Set New Total to 000.00

Current value of Intermediate Time on "Regularity" screen

! Live Intermediate Trip is continuously updated

Return to "Regularity" screen, setting Total Trip Value to the New Total Trip value

Return to "Regularity" screen

Regularity Mode Last Resets

Intermediate Trip
Distance of last 5 resets

Intermediate Time of
last 5 resets

Rally Time of last 5
resets

Reset Intermediate
Trip and
Intermediate Time

Current live value of Total
Trip on "Regularity" screen

Current live value of
Intermediate Trip on
"Regularity" screen

Current live value of
Intermediate Time
on "Regularity"
screen

Return to "Regularity" screen

12:34:56 47 ^{S1} mph

	Rally Time	Inter Trip	Inter Watch
1.	12:34:11	4.95	11:25
2.	12:22:46	3.95	10:46
3.	12:12:00	0.00	00:00
4.			
5.			
<div style="display: flex; justify-content: space-between; align-items: center;"> Total 9.53 0.63 00:45 </div>			
Back			

Regularity Mode Options

The "Regularity" screen menu will be in "Advanced" mode

The value set into the Regularity Intermediate stopwatch when it is reset

"L(ate)" and "E(arly)" labels are shown in the Advanced Regularity screen – these act as a reminder for which watch nudge button should be pressed if you are running Late or Early

The "Regularity" trip meters, and the Regularity totals on the "Totals" page, always accumulate distance, even if Regularity is not the current mode

Options - Regularity

Mode operation	<input checked="" type="checkbox"/> Advanced	<input type="checkbox"/> Basic
Stopwatch reset value	<input type="button" value="←"/> 0	<input type="button" value="→"/>
Rally Time freeze on reset	<input type="button" value="←"/> 30	<input type="button" value="→"/>
Show L(ate) and E(arly) labels (Advanced only)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Regularity Mode is always active	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="button" value="Back"/>		

The "Regularity" screen menu will be in "Basic" mode

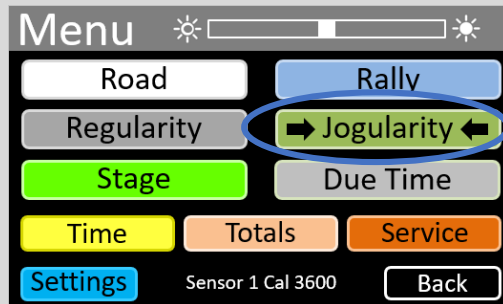
Amount of time that Rally Time and Intermediate Time are frozen when "reset" is pressed

"L(ate)" and "E(arly)" labels are not shown in the Advanced Regularity screen

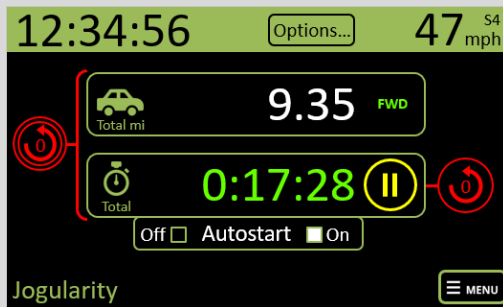
Return to "Regularity" screen

The "Regularity" trip meters, and the Regularity totals on the "Totals" page, only accumulate distance when Regularity is the current mode

Jogularity Mode Overview



Basic



Advanced



- **Jogularity Mode** is for jogularity sections where a table of distances, times and average speeds define how to travel across the jogularity section.
- **Jogularity Basic Mode** shows a total trip and a total stopwatch where the stopwatch can be independently reset to zero. The stopwatch can be set to start running when the vehicle moves, thus avoiding the need to touch RaliTripp at the start of a regularity section.
- **Jogularity Advanced Mode** is identical to Basic Mode, but allows the total trip and intermediate stopwatch to be “nudged” up or down to allow for roadbook or other measurement inaccuracies within a section. The net and cumulative adjustments to the total stopwatch are shown to allow easy comparison with timing sheet entries. The total trip can also be set to a specific value if the number of “nudges” required to correct it are too large. Advanced mode also shows a second set of intermediate trip and stopwatch values that can be used to help maintain the average speed according to the intermediate parts of the supplied jogularity table.



Jogularity Mode Screen Navigation



Advanced

12:34:56 47^{S4} mph

Options...

0:08

Total mi 9.35 FWD

0:09 0:17:28

Inter mi 0.25 FWD

Inter 0:00:30

Jogularity Off Autostart On MENU

Basic

12:34:56 47^{S4} mph

Options...

Total mi 9.35 FWD

Total 0:17:28

Off Autostart On

Jogularity MENU

Options - Jogularity

Mode operation Advanced Basic

Remote display shows Totals Int

Rally Time freeze on watch reset ← 30 →

Back



12:34:56 47^{S4} mph

Live Total 9.35

Set New Total 009.50

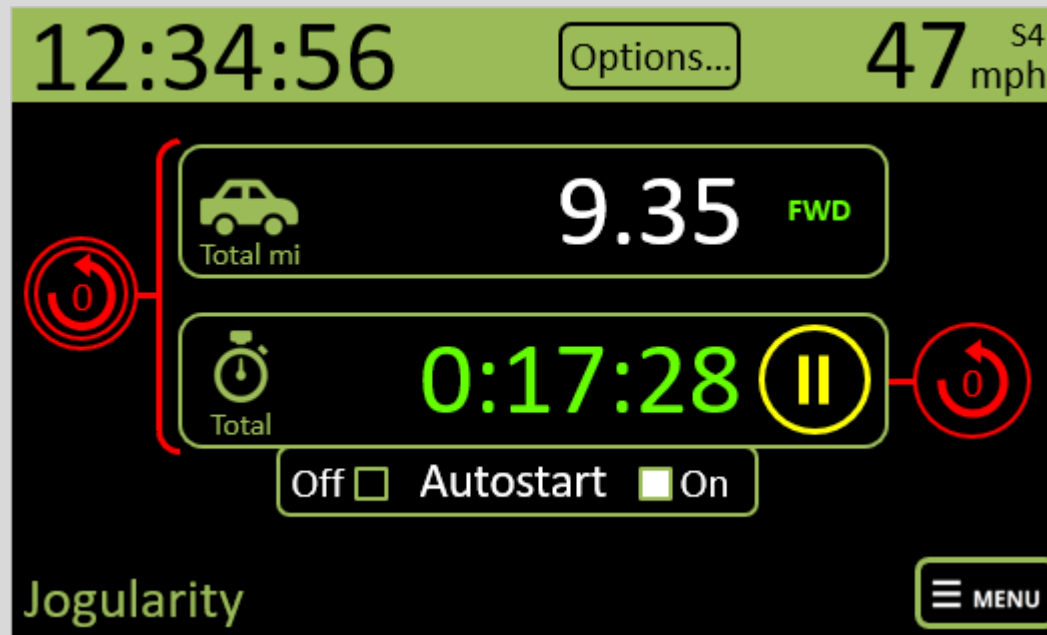
Live Total 0:17:28

1	2	3
4	5	6
7	8	9
0	CLR	

Jogularity Set and back Cancel

Jogularity Mode

Main Screen - Basic



Main Screen - Advanced

Manually decrease Total Distance to next 0.01/0.1, depending on display settings

Number of seconds before Rally Time and Intermediate trip unfreezes after reset. Use "Options" screen to change the starting value

Manually increase Total Distance to next 0.01/0.1, depending on display settings

Number of minutes:seconds that Total Time has been decreased by

0:08

Options...

47^{S4}
mph

Number of minutes:seconds that Total Time has been increased by

0:17

Manually decrease Total Time by one second

-1

0:09
Total

0:17:28

+1

Manually increase Total Time by one second

0

0.25^{FWD}
Inter mi

0

Jogularity

Off Autostart On

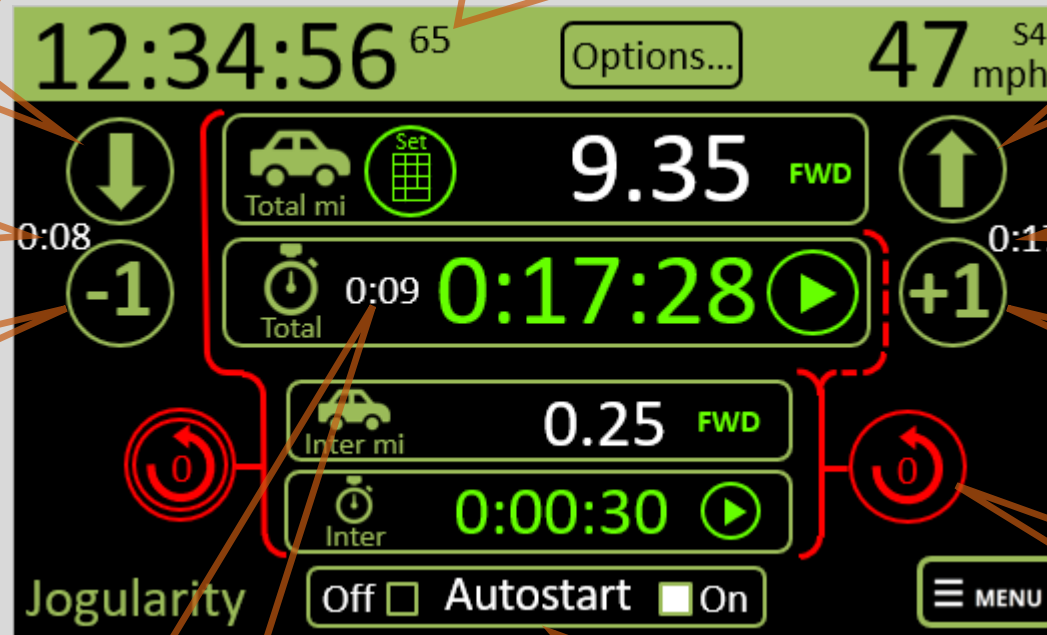
MENU

If Total stopwatch is zero, pressing reset will also start Total stopwatch

Net number of minutes:seconds that Total Time has been adjusted by

If Autostart is set to "On" and stopwatch is stopped at zero, stopwatch will automatically start when vehicle moves

!! Rally Time and Total Time are light blue when frozen



Jogularity Mode

Set Total Distance

Current live value of Total Trip on "Jogularity" screen

Enter New Total Trip via keypad keys

New Total Trip value set via keypad

Current live value of Total Time on "Jogularity" screen

Sets New Total Trip to 000.00

12:34:56 47^{S4} mph

🚗 Live Total 9.35

Set New Total 009.50

🕒 Live Total 0:17:28

Jogularity

1 2 3

4 5 6

7 8 9

0 CLR

Set and back Cancel

Return to "Jogularity" screen, setting Total Trip Value to the New Total Trip value

Return to "Jogularity" screen

Jogularity Mode Options

The "Jogularity" screen menu will be in **"Advanced"** mode

The remote display will show the Total trip and Total stopwatch

Amount of time that Rally Time and Total Time are frozen when "reset" is pressed

The "Jogularity" trip meters, and the Jogularity totals on the "Totals" page, always accumulate distance, even if Jogularity is not the current mode

Options - Jogularity

Mode operation	<input checked="" type="checkbox"/> Advanced	<input type="checkbox"/> Basic
Remote display shows	<input checked="" type="checkbox"/> Totals	<input type="checkbox"/> Int
Rally Time freeze on watch reset	← 30	→
Jogularity Mode is always active	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Back		

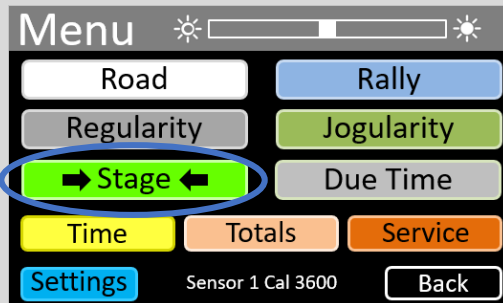
The "Jogularity" screen menu will be in **"Basic"** mode

The remote display will show the Intermediate trip and Intermediate stopwatch

The "Jogularity" trip meters, and the Jogularity totals on the "Totals" page, only accumulate distance when Jogularity is the current mode

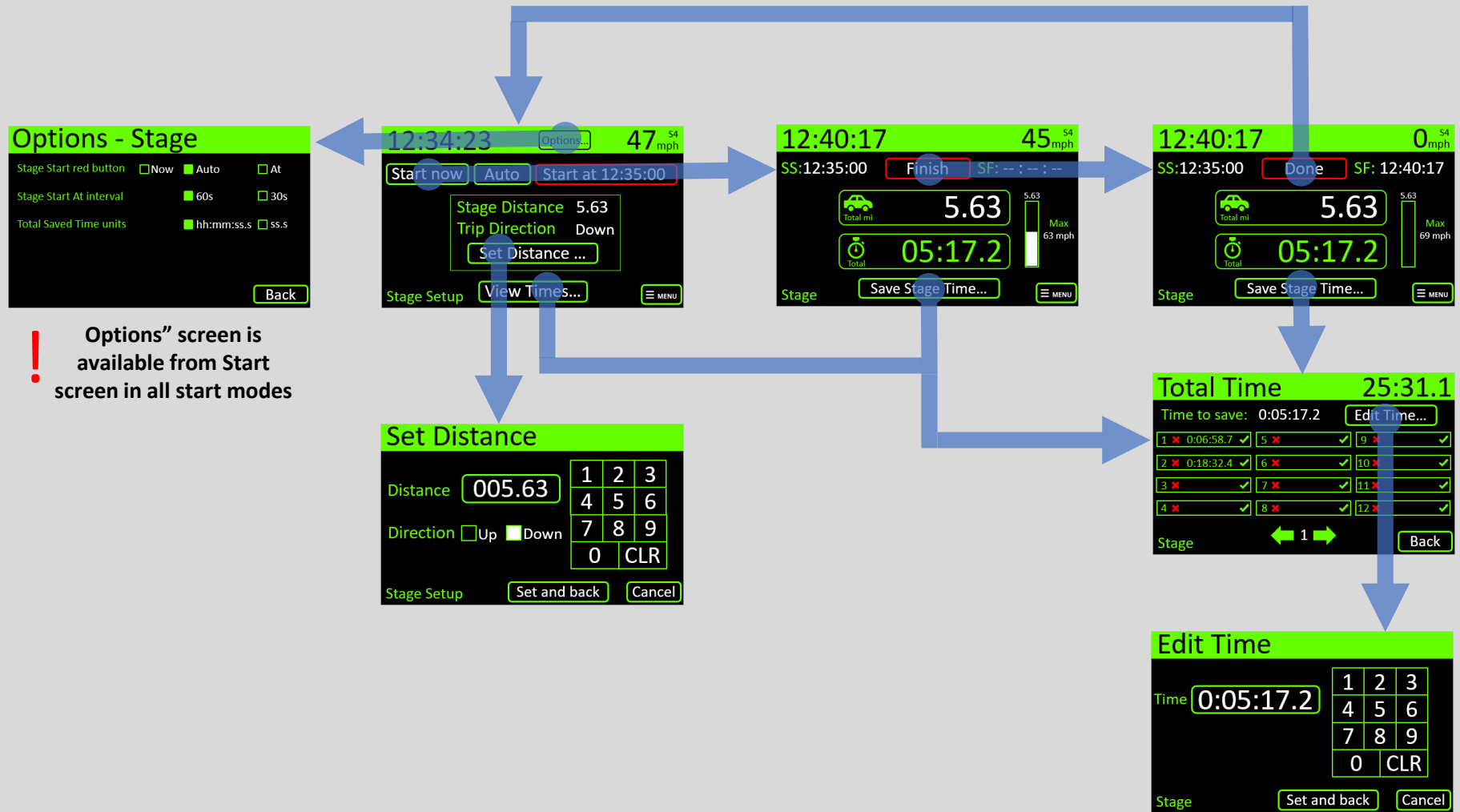
Return to **"Jogularity"** screen

Stage Mode Overview

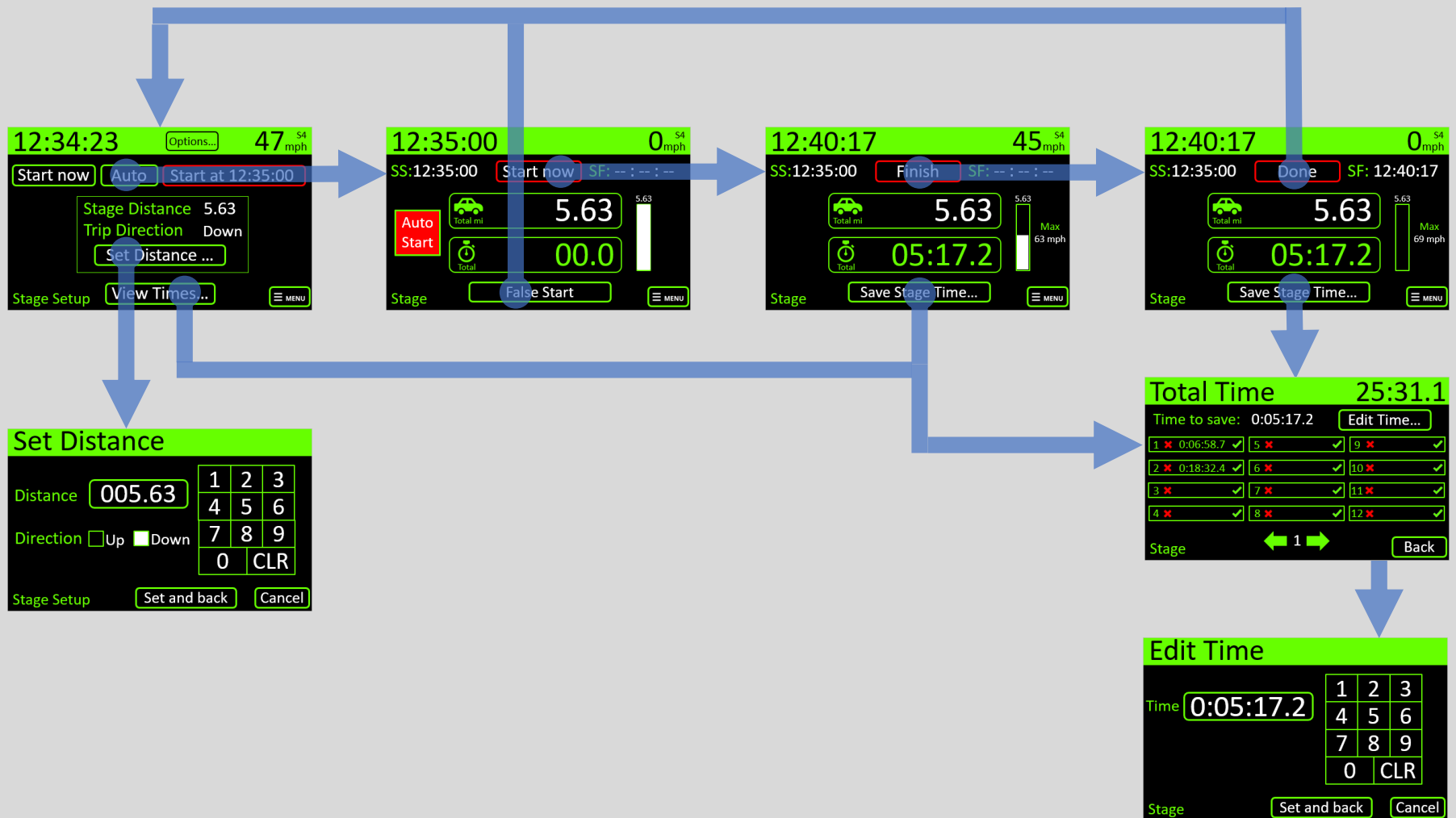


- **Stage Mode** provides a single trip distance and stopwatch for use on stage rally special stages. The mode is specially designed to be operated, optionally, via just the remote unit red button so that RaliTripp does not have to be touched at the start of the stage, while the stage is in progress or when crossing the flying finish line.
- The trip distance can count up from zero, or count down from the value indicated in the stage roadbook. The mode allows three ways for the stopwatch to be started – manually (“**Start Now**”), when the vehicle moves (“**Auto**”) or when a certain rally time is reached (“**Start At**”).
- If the vehicle “false starts” the stage timing can be abandoned any time within the first 10 seconds of the stage.
- Pressing the red button as the vehicle passes the flying finish will freeze the stopwatch, giving the measured stage time. The **Save...** button allows up to 36 stage times to be saved, and auto-totalled on a separate screen.

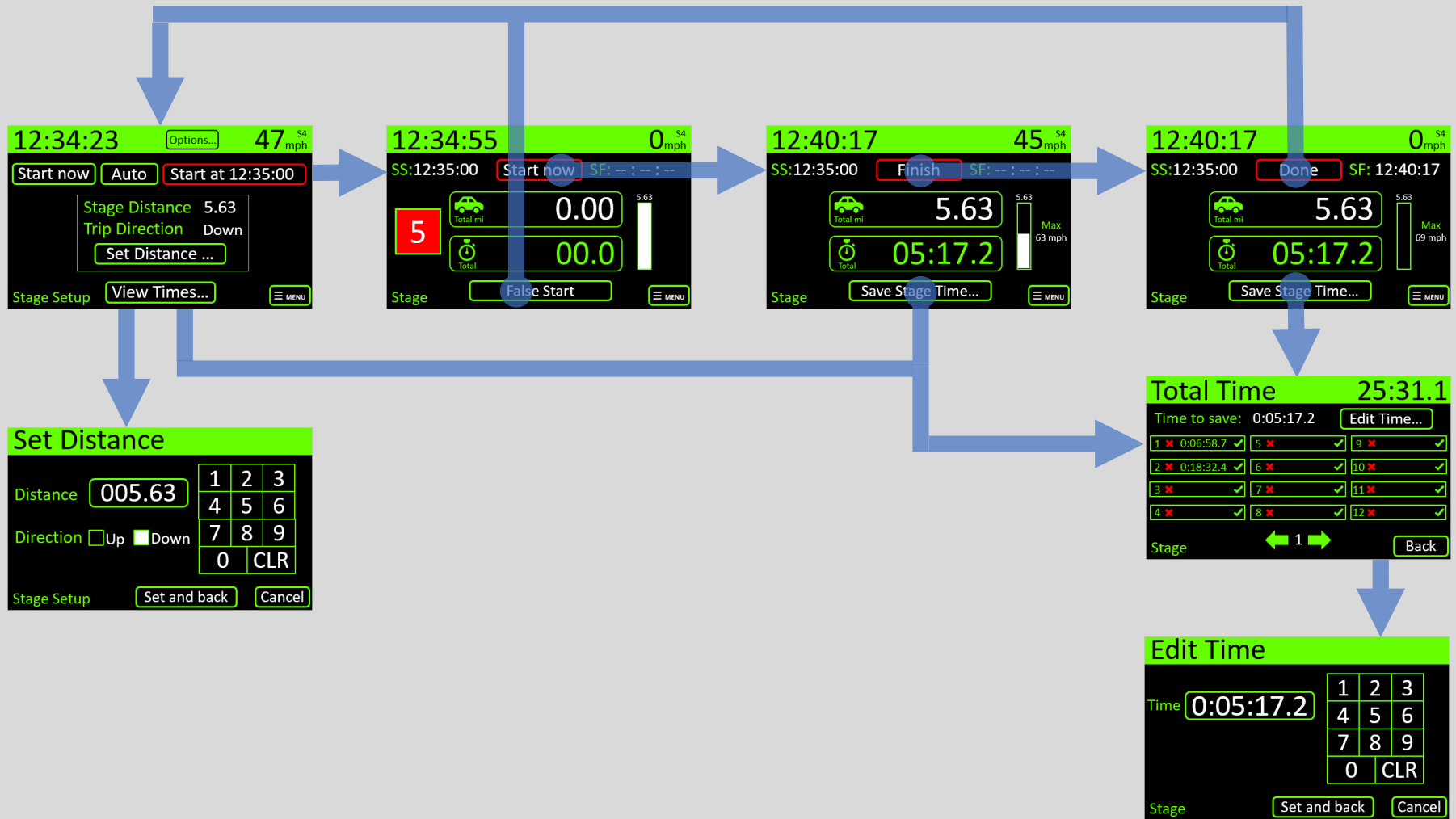
Screen Navigation – Start Now



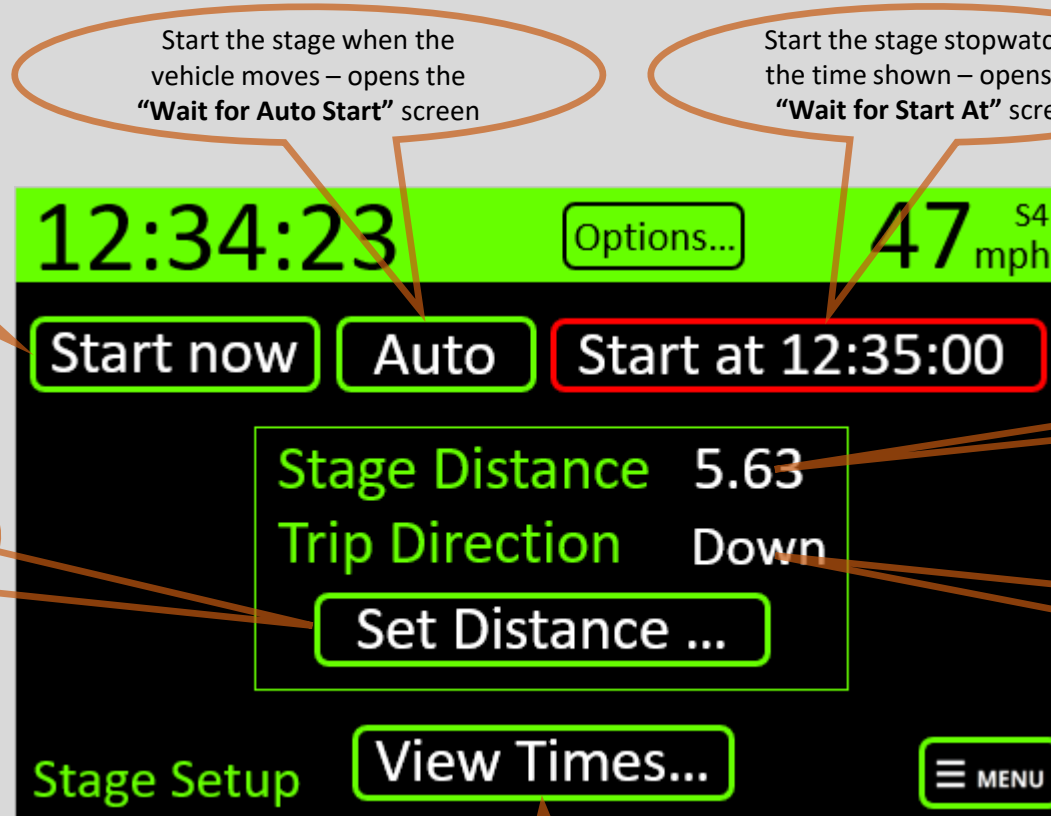
Screen Navigation – Auto Start



Screen Navigation – Start At



Stage Mode Start



Start the stage now - opens the "Stage in Progress" screen

Start the stage when the vehicle moves - opens the "Wait for Auto Start" screen

Start the stage stopwatch at the time shown - opens the "Wait for Start At" screen

The Start At time automatically changes to the next 30s/60s in front of Rally Time, depending on the value set in "Options"

Open the "Set Distance" screen to set the Stage Distance and Trip Direction

The preset stage distance

Optional - if not set, stage distance will be 0 and direction will be "up"

Direction that the stage distance will change as the vehicle moves

Open the "Save Time" screen

The button in the top line bordered in red can be actioned by pressing the screen or by a short press on remote unit red button. The button bordered in red can be changed in the "Options" screen

Stage Mode

Set Distance

Stage Distance value set
via keypad

Enter Stage Distance via
keypad keys

Set Distance

Distance

Direction Up Down

1	2	3
4	5	6
7	8	9
0	CLR	

Stage Setup

Direction of Stage
Distance trip meter

Set Stage Distance
to 000.00

Return to "Start" screen,
setting Stage Distance and
Direction

Return to "Start" screen,
without setting Stage
Distance and Direction

Stage Mode

Wait for Auto Start



Start the stage now i.e. don't wait until vehicle moves - opens the "Stage in Progress" screen

Shows that the stopwatch will start when the vehicle moves

Preset stage distance

Shows that 100% of stage distance is still to go

Return to "Start" screen i.e. abandon the start

! The "Start now" button can be actioned by pressing the screen or by a short press on remote unit red button.

Stage Mode

Wait for Start Time

Stage start time – the time at which the stopwatch will start automatically

Start the stage now i.e. don't wait until the start time – opens the "Stage in Progress" screen



Timer showing the number of seconds to the stage start time

Preset stage distance

When the timer reaches zero, the "Stage in Progress" screen opens automatically

Shows that 100% of stage distance is still to go

Return to "Start" screen i.e. abandon the start

The "Start now" button can be actioned by pressing the screen or by a short press on remote unit red button.

Stage Mode

Stage in Progress



Stage start time

When the Rally Time is equal to the start time, the "Stage in Progress" screen opens automatically

Press when the stage is completed i.e. when passing the flying finish line – the distance and time are frozen and the "Stop Line" screen opens

Shows the maximum stage speed so far

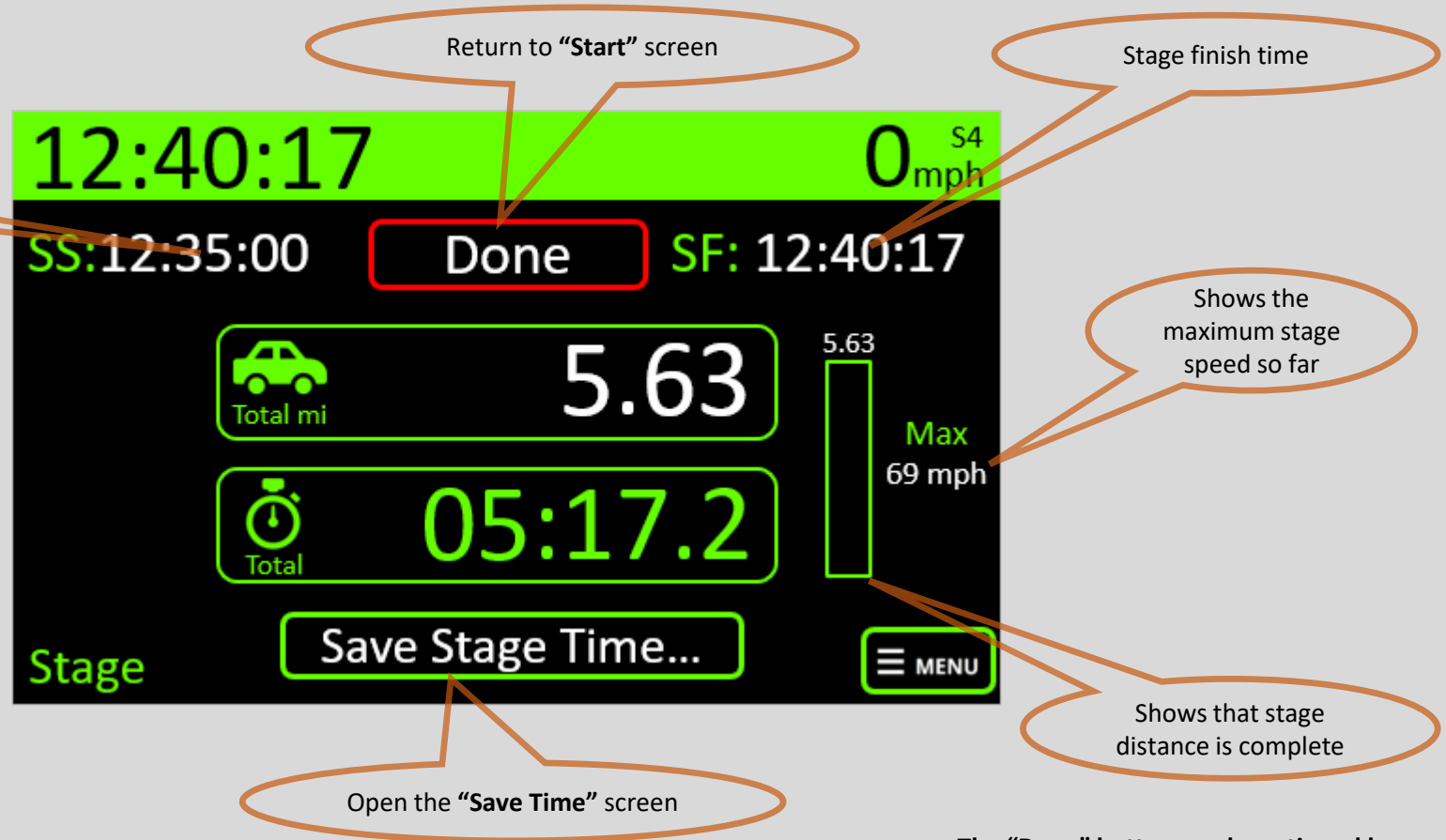
Shows that 50% of stage distance is still to go

Open the "Save Time" screen

Shows "False Start" for the first 10 seconds, which if pressed, returns to "Start" screen i.e. abandon the stage start

The "Finish" button can be actioned by pressing the screen or by a short press on remote unit red button.

Stage Mode Stop Line



! The "Done" button can be actioned by pressing the screen or by a short press on remote unit red button.

Stage Mode

Save Time

Initial stopwatch value from Stage mode main screen, or edited value after using "Edit Time"

Total of all saved times on all 3 pages i.e. total event time. Use "Settings/Options" to show time in hh:mm:ss.t or ss.t

Location/stage number

Up to 36 saved times in 3 pages of 12

Delete time from location

Save time in location

Show previous 12 stored times

Show next 12 stored times

Open "Edit Time" to change time value to be saved

! "Edit Time" can be used to save real/notional/penalty times not measured on the Stage mode screen

Return to either the "Stage in Progress" or "Stop Line" screen

Total Time 25:31.1

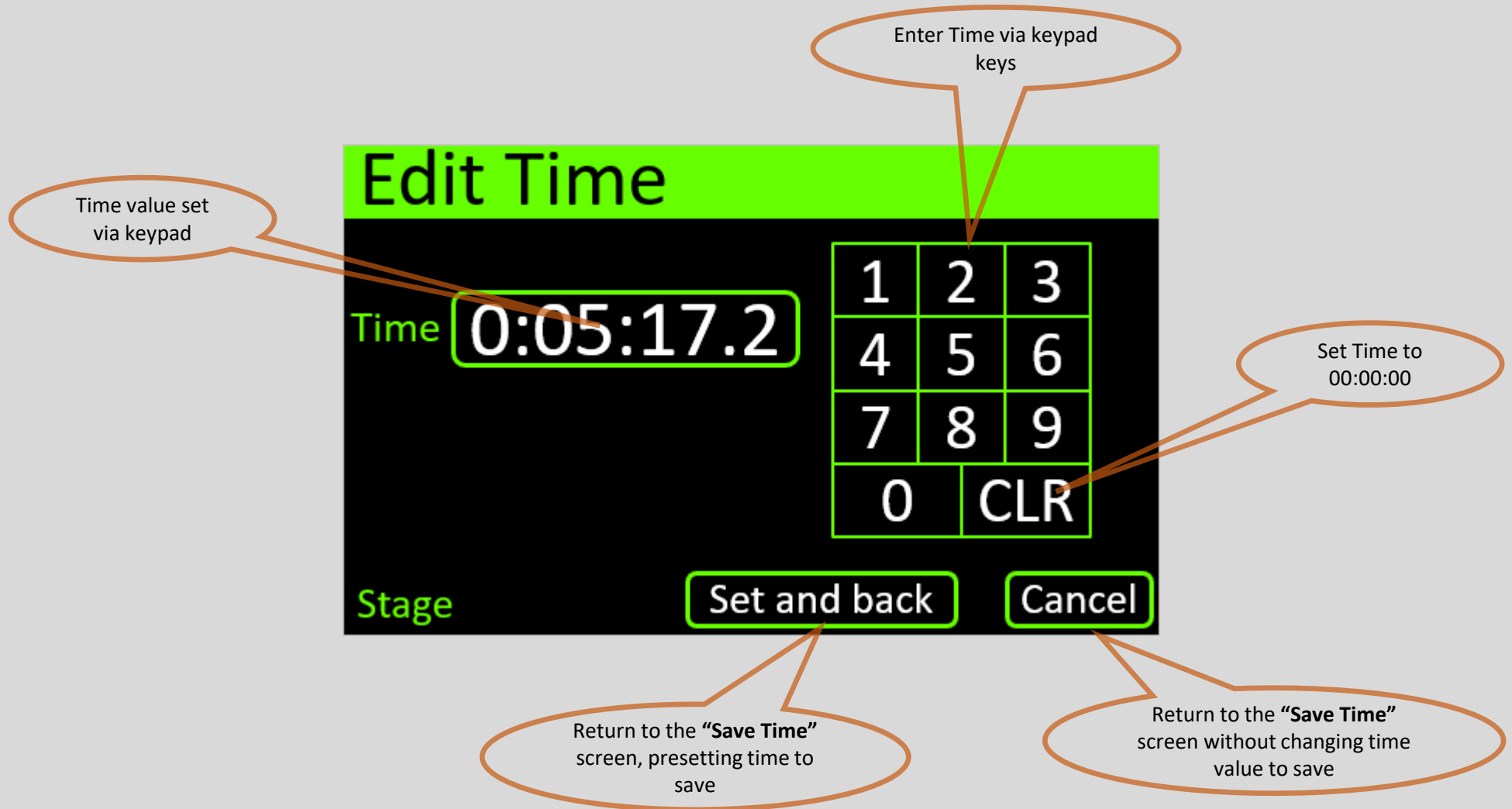
Time to save: 0:05:17.2 **Edit Time...**

1 X 0:06:58.7 ✓	5 X ✓	9 X ✓
2 X 0:18:32.4 ✓	6 X ✓	10 X ✓
3 X ✓	7 X ✓	11 X ✓
4 X ✓	8 X ✓	12 X ✓

Stage ← 1 → **Back**

Stage Mode

Edit Time



Stage Mode Options

The "Start Now" button on the Stage "Start" screen is highlighted in red

The "Auto Start" button on the Stage "Start" screen is highlighted in red

The "Start At" button on the Stage "Start" screen is highlighted in red

The next "Start at" time on the Stage "Start" screen adjusts to the nearest whole minute ahead of Rally time

The next "Start at" time on the Stage "Start" screen adjusts to the nearest whole minute or whole 30s ahead of Rally time

Total time on "Save Time" screens is in hh:mm:ss

Total time on "Save Time" screens is in seconds

The "Stage" trip meters, and the Stage totals on the "Totals" page, always accumulate distance, even if Stage is not the current mode

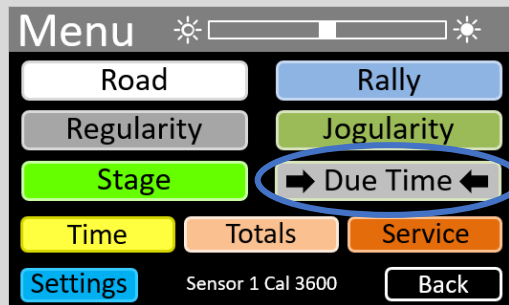
Return to "Start" screen

The "Stage" trip meters, and the Stage totals on the "Totals" page, only accumulate distance when Stage is the current mode

Options - Stage

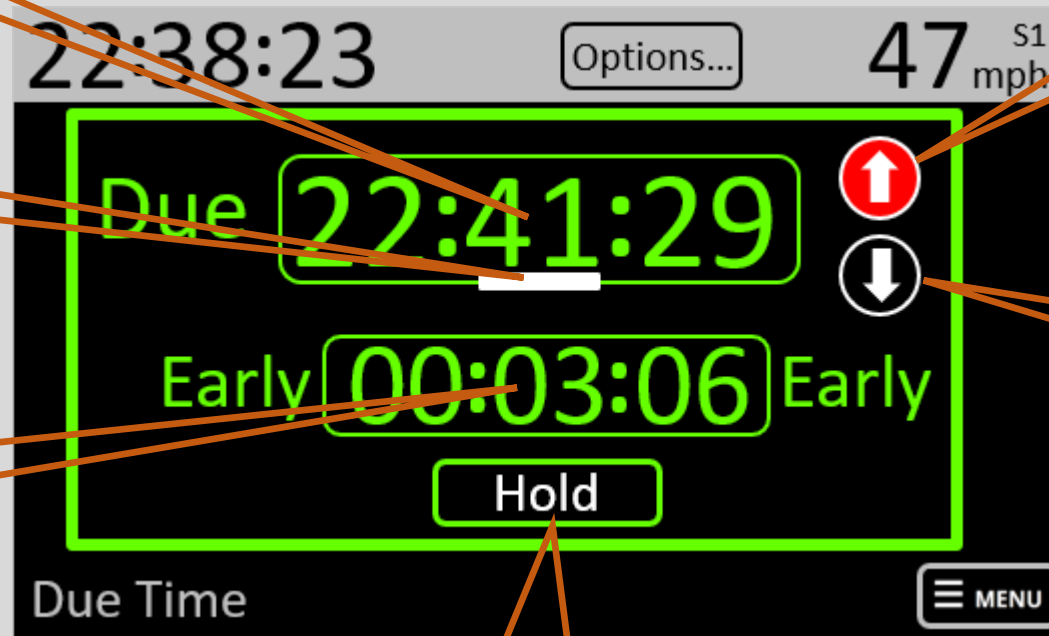
Stage Start red button	<input type="checkbox"/> Now	<input checked="" type="checkbox"/> Auto	<input type="checkbox"/> At
Stage Start At interval	<input checked="" type="checkbox"/> 60s		<input type="checkbox"/> 30s
Total Saved Time units	<input checked="" type="checkbox"/> hh:mm:ss.s		<input type="checkbox"/> ss.s
Stage Mode is always active	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No
Back			

Due Time Mode Overview



- **Due Time Mode** allows a hh:mm:ss due time to be easily entered/changed and shows how early/late it is from that due time. This mode is particularly useful for road rallies where successful results are achieved by arriving at controls on or at (but not before) a set of due times.
- The Up and Down screen arrows on the screen that set the due time can be pressed via the red and black buttons on the remote units, meaning the main unit rarely needs to be touched during competitive sections.

Due Time Mode Main Screen



Due Time

Focus indicator for the increase and decrease buttons

! Press on the hours, minutes or seconds values to move the focus indicator

Stopwatch – shows the value of Rally Time minus Due Time (display only)

! IF Due Time is greater than Rally Time, the Due Time/the stopwatch/the words “Early” are shown in green...
OTHERWISE
...the Due Time/the stopwatch/the words “Late” are shown in red

Hold/resume Rally Time, Due Time and Stopwatch

! Displayed values are in light blue when held

Increase the Due Time value with the current focus

! A SHORT press on the remote unit RED button can be used to operate this button. A LONG press will auto-increment the time value

Decrease the Due Time value with the current focus

! A SHORT press on the remote unit BLACK button can be used to operate this button. A LONG press will auto-decrement the time value

Due Time Mode Examples

“Early”

i.e. Due Time is greater than Rally Time



“Late”

i.e. Due Time is less than or equal to Rally Time



The screen will automatically change from green “early” times to red “late” times when the Due Time is equal to Rally Time

Due Time Mode Options

If the stopwatch is showing "Early", the border is green

If the stopwatch is showing "Early", the border is red

If the stopwatch is showing "Late", the border is red

If the stopwatch is showing "Late", the border is green

If the stopwatch hours value is zero, the hours are shown as zeros

If the stopwatch hours value is zero, the hours are not shown

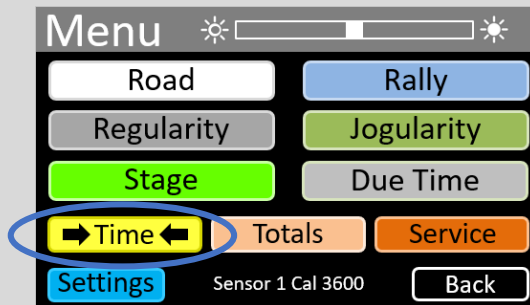
Options – Due Time

Border colour when EARLY	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Red
Border colour when LATE	<input type="checkbox"/> Red	<input checked="" type="checkbox"/> Green
Suppress watch leading zero hours	<input type="checkbox"/> No	<input type="checkbox"/> Yes

Back

Return to "Main" screen

Time Mode Overview



- **Time Mode** provides a simple display of Rally Time, which can be held/resumed as required.

Time Mode Main Screen



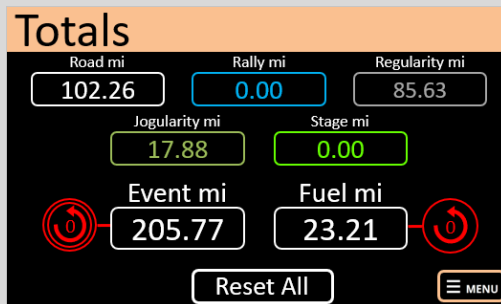
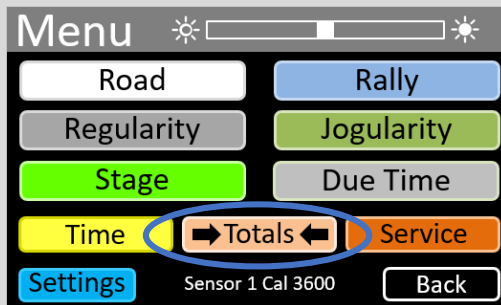
Rally time

Hold

Hold/resume Rally time

! Rally time is in light blue when held

Totals Mode Overview



- **Totals Mode** shows the distances accumulated in each of the main modes plus two additional “overall distances” that show the distance travelled on the whole event and the distance travelled since the last re-fuel point.
- Individual distances can be reset to 0.00, or all distances can be reset at the same time.

Totals Mode Main Screen

Total distance in Road mode. Press to reset

Total distance in Rally mode. Press to reset

Total distance in Regularity mode. Press to reset

Totals

Road mi	Rally mi	Regularity mi
102.26	0.00	85.63
Jogularity mi	Stage mi	
17.88	0.00	
Event mi	Fuel mi	
205.77	23.21	

Reset All

MENU

Total distance in Jogularity mode. Press to reset

Total distance in Stage mode. Press to reset

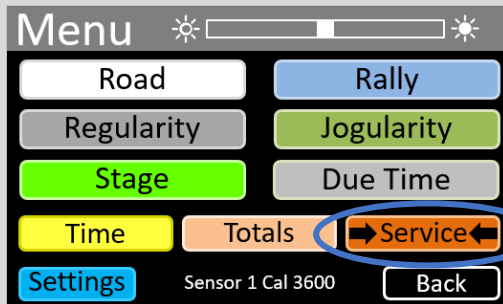
Total event distance

Total distance since last fuel

! Reset this each time you fuel the vehicle

Press to reset all totals

Service Mode Overview



- **Service Mode** provides a countdown timer to indicate the time remaining in a vehicle service scenario.
- The start of the service time can be set, together with the service duration. In this case, the countdown will start automatically when rally time matches the service start time. If the start of the service time is not specified, the countdown will start immediately.

Service Mode Screen Navigation

12:34:56
Start time 13:30:00 Duration 0:45:00
Time Remaining
0:45:00
Service



Service setup

Rally Time	12:34:56	1	2	3
Duration	00:45:00	4	5	6
Start time	13:30:00	7	8	9
		0	CLR	

Service

Service Mode Service

Time at which stopwatch will start counting down or time that stopwatch started

Service duration/time

The screenshot shows a digital display with the following elements:

- Current Time:** 12:34:56 (top bar)
- Start time:** 13:30:00
- Duration:** 0:45:00
- Time Remaining:** 0:45:00 (large green digits)
- Buttons:** Service, Reset, Setup..., and MENU.

Service time remaining

Reset start time, duration and stopwatch

Open "Setup - Duration" screen

Service Mode Setup

Rally Time

! Rally Time is continuously updated

New Duration value set via keypad

! Press to enter via keypad

Start Time value set via keypad

! Press to enter via keypad

Enter Duration or Start Time via keypad keys

Set Duration to 0:00:00 or set Start Time to --:--:--

! --:--:-- indicates start time not set; 00:00:00 indicates a start time of midnight

Return to the "Service" screen, setting Duration and Start Time

Return to the "Service" screen without setting Duration or Start Time

Service setup

Rally Time 12:34:56

Duration 0:45:00

Start time 13:30:00

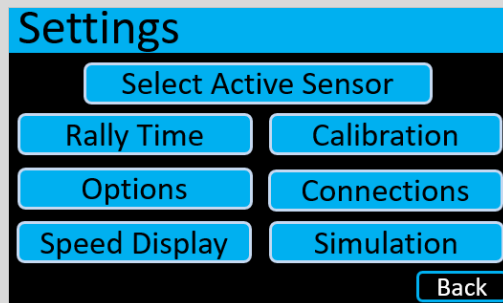
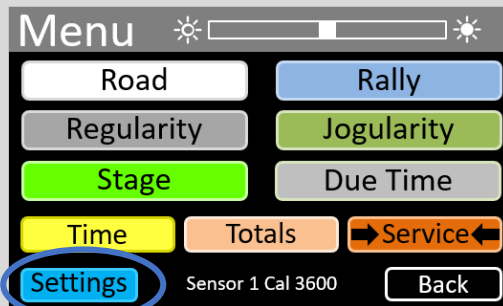
Service

1	2	3
4	5	6
7	8	9
0	CLR	

Set and back Cancel

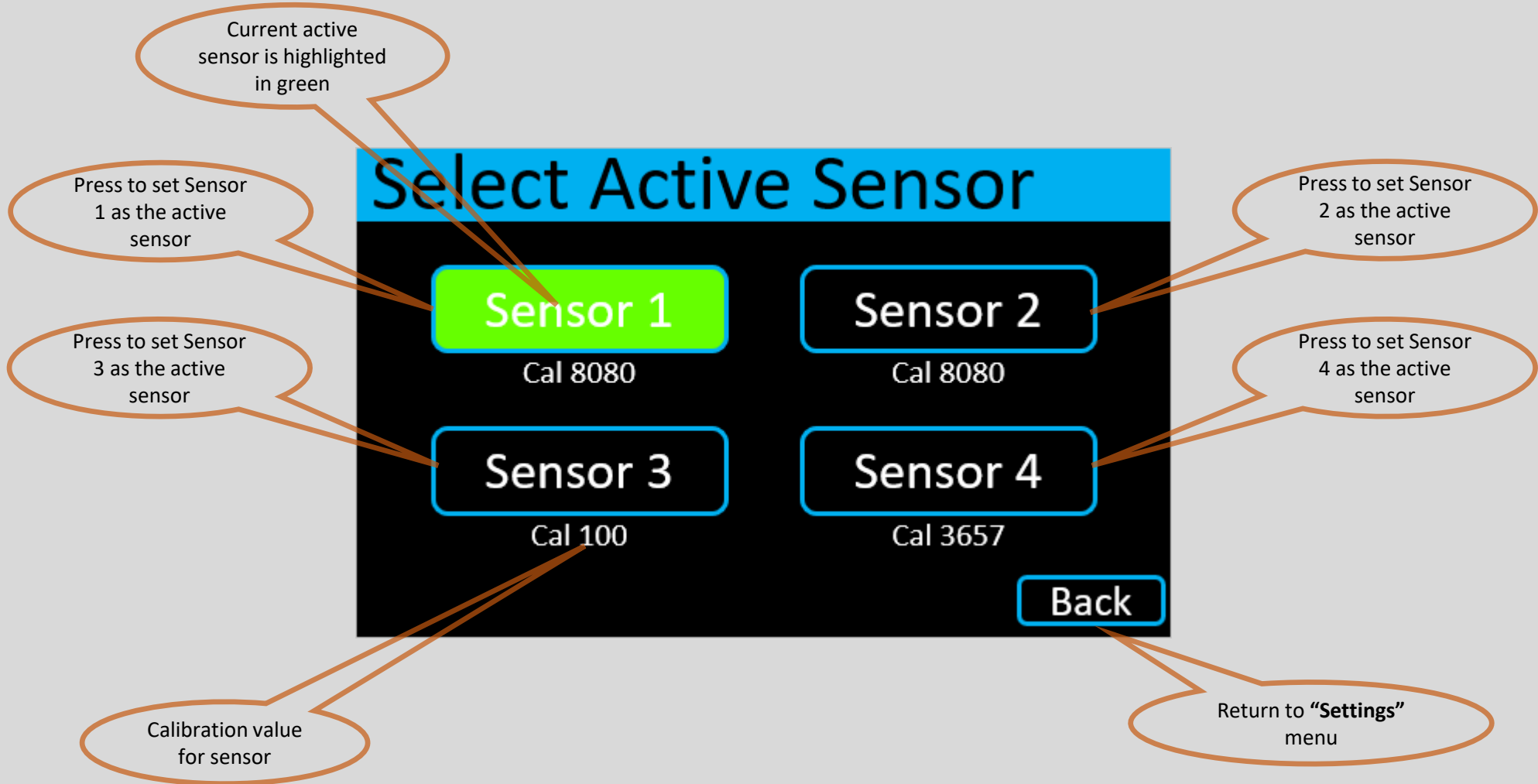
Settings Overview

- The **Settings** menu allows RaliTripp to be configured to operate as required:
 - **Select Active Sensor** allows the active sensor to be quickly and easily selected
 - **Rally Time** that allows the Rally Time to be set
 - **Calibration** opens the calibration menu that allows the calibration values for the sensors to be set in three different ways
 - **Options** allows access to four screens that allow the way that various aspects of how RaliTripp operates to be defined and gives a simple way of resetting all trips, stopwatches and saved values
 - **Connections** allows the active sensor to be defined and shows the electrical status of the sensors, the power connections and the remote unit
 - **Speed Display** allows the RaliTripp to be configured to not display speed for a selectable number of days, allowing RaliTripp to be used on events not allowing tripmeters to show speed, with no penalty
 - **Simulation** makes RaliTripp operate with a simulated speed, allowing you to “get to know” RaliTripp outside of the vehicle/an event.



Settings

Select Active Sensor



Settings

Rally Time

Rally Time

! Rally Time is continuously updated

Adjust hours, minutes and seconds up or down

Rally Time

Current 12:34:01

New 12:34:01

Set Back

Set Rally Time time to New Rally Time value

Return to "Settings" menu

Settings

Calibration Menu

Calibrate sensors by driving a measured distance

Calibration

Measured distance

Direct entry

Adjustment to match roadbook

Back

Calibrate sensors by entering calibration values directly

Adjust the calibration of sensors by making a trip value displayed by RaliTripp match a roadbook distance

Calibration Hints and Tips

Measured distance

Zero all counts **FWD**

Sensor	S1	S2	S3	S4
Count	00000	00000	08250	02468
Curr Cal	06000	00100	08150	00100
New Cal	06000	00100	08250	02468

Distance **01.000**

mi km

Set Back

Direct entry

Sensor	S1	S2	S3	S4
Current	06000	00100	08150	00100
New	06000	00100	08150	00100

mi km

Set Back

Adjustment

Roadbook value **018.99**

RaliTripp display **019.21**

Sensor	S1	S2	S3	S4
Curr Cal	00600	05000	04000	03000
New Cal	06061	05057	04046	03034

Set Back

- For sensor calibration by “Measured distance” :
 - Press **Zero All Counts**
 - Drive the measured distance – the counts on all connected sensors will increase
 - At the end of measured distance:
 - Optionally, press **Direction** until it indicates Hold and drive away from end of distance marker
 - Press **Distance** and enter the measured distance via the keypad
 - Ensure the units (mi/km) of the measured distance is correct
 - Press Set and confirm the new calibration values
- For sensor calibration by “Direct entry” :
 - Press the **New** entry field for the required sensor
 - Enter the sensor calibration value via the keypad
 - Ensure the units (mi/km) of the calibration value are correct
 - Press Set and confirm the new calibration values
- For sensor calibration by “Adjustment” :
 - Enter the Roadbook value and RaliTripp display values
 - Press Set and confirm the new calibration values
- If the units (mi/km) of the calibration value are not correct, then unexpected values can appear on the trip and speed displays when trip units are changed between mi/km and/or speed units are changed between mph/kph

Calibration – Measured Distance

Zero all sensor counts

Cycle sensor count direction between FWD/HOLD/REV

! New Cal values for any sensor with a Count of 0 is set to the Current Cal value

! A change of direction only affects direction on this screen. A SHORT press on the remote unit BLACK button also cycles the direction between FWD/HOLD/REV

Live Count of pulses received by sensor

Sensor	S1	S2	S3	S4
Count	00000	00000	08250	02468
Curr Cal	06000	00100	08150	00100
New Cal	06000	00100	08250	02468

Distance: 01.000

mi km

Buttons: Set, Back

Keypad: 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, CLR

Current Calibration value for sensor

Enter Measured Distance via keypad keys

Set Measured Distance to 00.000

New Calibration value

! If Measured Distance is 00.000, all New Cal values are set to the Current Cal values

! New Cal value is continually updated depending on sensor Count and cal Distance. New Cal value is kept between 100 and 99999 (inclusive)

The Measured Distance. Initial value is 1.000

Cal Distance units

Set new Calibration Values

! A confirm/cancel box appears over the keypad

Return to "Calibration Menu" screen

! A confirm/cancel box appears over the keypad if changes have been made but not "Set"

Calibration – Direct Entry

The screenshot shows the 'Direct entry' calibration screen. It features a table of current calibration values for four sensors (S1, S2, S3, S4) and a keypad for entering new values. The keypad includes digits 0-9, a CLR key, and Set/Back buttons. Callouts provide instructions on how to use the keypad and what happens when changes are made.

Sensor	S1	S2	S3	S4
Current	06000	00100	08150	00100
New	06000	00100	08150	00100

Cal units: mi km

Keypad: 1 2 3, 4 5 6, 7 8 9, 0 CLR, Set, Back

Callouts:

- Current calibration value for sensor
- Enter 5-digit calibration value via keypad keys
- Set calibration value 00000
- Return to "Calibration Menu" screen
- A confirm/cancel box appears over the keypad if changes have been made but not "Set"
- Set new Calibration Values
- A confirm/cancel box appears over the keypad
- Cal units
- New calibration value
- Press to allow entry via keypad

Calibration – Adjustment to match Roadbook

Distance indicated by Roadbook

! Press to allow entry via keypad

Distance indicated by RaliTripp

! Press to allow entry via keypad

Adjustment

Roadbook value 018.99

RaliTripp display 019.21

Sensor	S1	S2	S3	S4
Curr Cal	00600	05000	04000	03000
New Cal	06061	05057	04046	03034

1	2	3
4	5	6
7	8	9
0	CLR	

Set

Back

Set Roadbook or RaliTripp value via keypad keys

! As values are entered, each New Cal value is adjusted to:

$$\text{Curr Cal} \times \frac{\text{RaliTripp Display}}{\text{Roadbook value}}$$

...subject to minimum value of 100 and a maximum value of 99999

Set Roadbook or RaliTripp value to 000.00

Set new Calibration Values

! A confirm/cancel box appears over the keypad

Return to "Calibration Menu" screen

! A confirm/cancel box appears over the keypad if changes have been made but not "Set"

Settings

Options – Menu

Select which main modes are available on the “Menu” screen

Options - Menu

Show Road Mode	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Show Rally Mode	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Show Regularity Mode	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Show Jogularity Mode	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Show Stage Mode	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Show Due Time Mode	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

← 1 →

Back

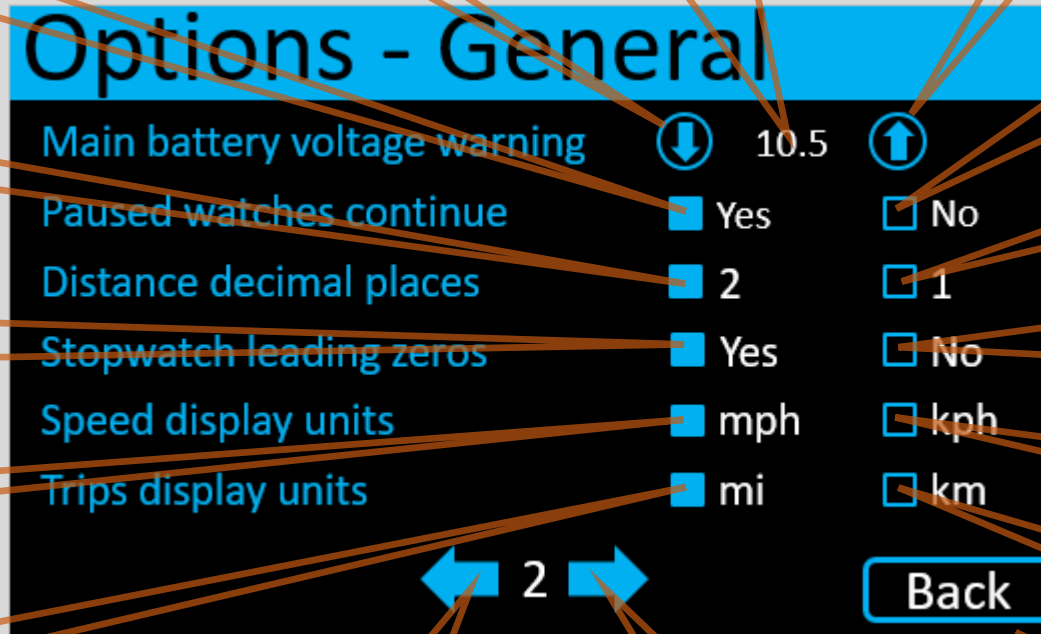
It is not possible to leave this screen with all mode selections set to “No”

Open “Options – Resets” screen

Open “Options – General” screen

Return to “Settings” menu

Options – General



When a watch is restarted, it will resume from the same time value

Decrease value

Main battery voltage below which the battery warning will be shown

Increase value

When a watch is restarted, it will resume taking into account the time for which it was paused

Trips for all modes show 2 decimal places e.g. 5.43

Trips for all modes shows 1 decimal place e.g. 5.4

The stopwatches for all modes show leading zeros e.g. 0:05:43

The stopwatches for all modes have leading zeros suppressed e.g. 5:43

The speed units for all modes are in mph

The speed units for all modes are in kph

The distance units for all modes are in miles

The distance units for all modes are in kilometres

Open "Options – Menu" screen

Open "Options – Colours" screen

Return to "Settings" menu

Settings

Options – Colours

Colours of the trips and stopwatches in all modes, the Rally Time screen, and the Service Time screen

Options - Colours

Tripmeter total colour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tripmeter interval colour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stopwatch total colour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stopwatch interval colour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

← 3 →

Back

Open "Options – General" screen

Open "Options – Resets" screen

Return to "Settings" menu

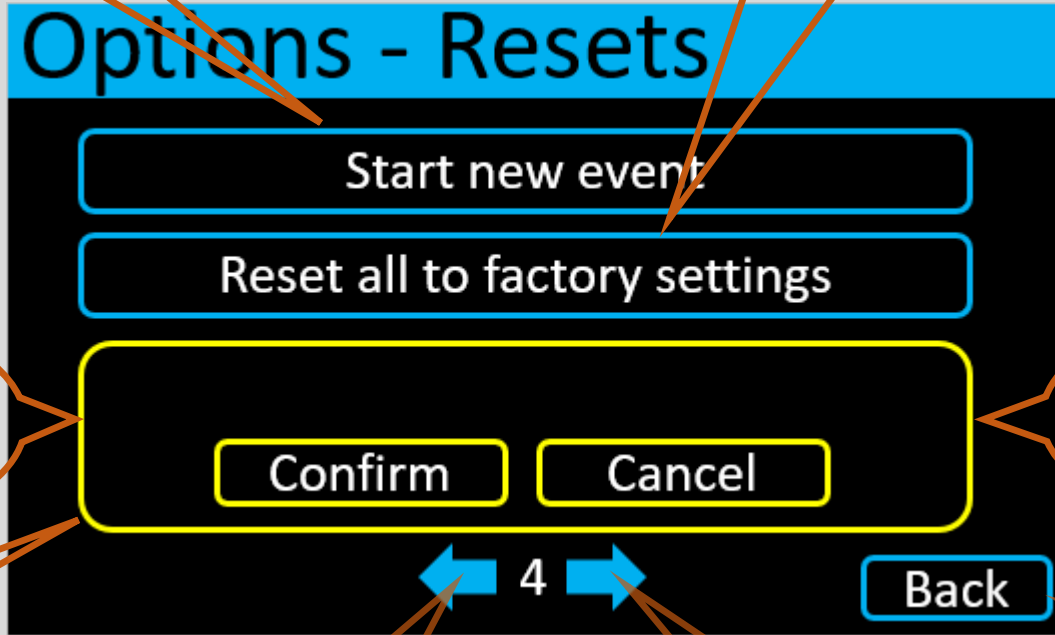
Settings Options – Resets

Resets trips, watches and saved times

Reset all data to factory settings

The trips and watches for all modes are set to zero.
All saved times for Rally and Stage are cleared.
All Regularity Last Reset values are cleared

All data is zeroed/cleared and all options and display selections are set to their default value.
All sensor calibration values are set to 3600.
However, Rally Time is not changed



Reset trips, watches and saved times
Confirm Cancel
(if "Reset trips..." is pressed)

Reset all to factory settings
Confirm Cancel
(If "Reset all..." is pressed)

Confirm/Cancel the reset type selected

Open "Options – Colours" screen

Open "Options – Menu" screen

Return to "Settings" menu

Settings

Connections

Current detection state of each sensor – if sensor input is detected as “high” then green background else black background



Sensor 1/2 shows whether wheel bolt is being detected or not. For some sensors, symbol may be “green” if a wheel bolt is being sensed – other sensors may cause the symbol to be “green” when a wheel bolt is not being sensed

Connections

Current detection state of each sensor

Sensor 1	Sensor 2	Sensor 3	Sensor 4
----------	----------	----------	----------

Main battery 12.5 v Aux battery 10.9 v

Remote button state

Back

Main battery voltage (accurate to ~0.5v)

Main battery voltage (accurate to ~0.5v)

Button state on remote unit. Symbols change when buttons are pressed

Return to “Settings” menu

! Useful during initial installation tests

Settings

Speed Display

Speed display not already suppressed

Screen 1

Speed display

How long do you want RaliTripp to stop displaying speed values?

↓ 1 day ↑

Next

You are not committing to stopping display of speed values by pressing Next at this point

Back

These screens are used to make RaliTripp suppress the display of speed on the main mode screens for a number of days.

Two paths are available:

- When the speed display is not already suppressed, in which case the period can be set and confirmed
- When the speed display is already suppressed, in which case the period can be extended and confirmed

Screen 4

Speed display

Changing Rally Time, starting a new event, resetting to factory defaults and/or removing the internal battery will have no effect on the time before RaliTripp will display speed values

Press Next to continue

Next Time: 1 day extension

You are not committing to stopping display of speed values by pressing Next at this point

Back

Speed display already suppressed

Screen 2

Speed display

RaliTripp is not displaying speed values for the next

3 days 03 hours 20 minutes

Extend Time

It is not possible to make RaliTripp resume display of speed values before this time

Back

Screen 3

Speed display

How long do you want to extend the time that RaliTripp does not display speed values for?

↓ 1 day ↑

Next

You are not committing to stopping display of speed values by pressing Next at this point

Back

!!! When the display of speed is suppressed, speeds are still shown when RaliTripp is in Simulation mode.

!!! When the speed display is suppressed, the background of the Speed Display button is red on the Settings Menu

Screen 5

Speed display

Enter your RaliTripp password and press Set

↑ ↑ ↑ ↑

0 0 0 0

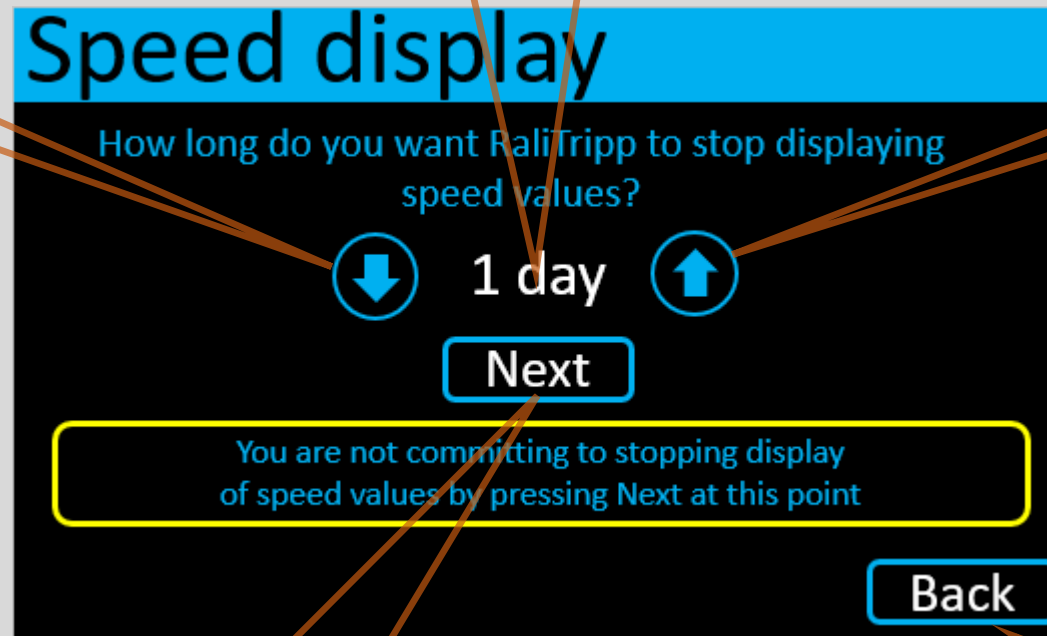
↓ ↓ ↓ ↓

Set Time: 1 day extension

***** You are now committing to stopping display of speed values by pressing Set at this point *****

Back

Speed Display – Screen 1 – Speed not suppressed



Number of days for which speed is to be suppressed

Decrease number of days; minimum is 1 day

Increase number of days; maximum is 40 days

Open "Speed Display – Screen 4"

Return to "Settings" menu

Speed Display – Screen 2 – Speed suppressed

Speed display

RaliTripp is not displaying speed values for the next

3 days 03 hours 20 minutes

Extend Time

It is not possible to make RaliTripp resume display of speed values before this time

Back

Time remaining before speed values are displayed

Open "Speed Display – Screen 3"

Return to "Settings" menu

Speed Display – Screen 3 – Speed suppressed

Speed display

How long do you want to extend the time that RaliTripp does not display speed values for?

↓ 1 day ↑

Next

You are not committing to stopping display of speed values by pressing Next at this point

Back

Number of days for which speed is to be suppressed

Decrease number of days; minimum is 1 day

Increase number of days; maximum is 40 days

Open "Speed Display – Screen 4"

Return to "Settings" menu

Detailed description: The image shows a mobile application screen titled 'Speed display'. The screen has a black background with a blue header bar containing the text 'Speed display'. Below the header, there is a question in white text: 'How long do you want to extend the time that RaliTripp does not display speed values for?'. In the center, the text '1 day' is displayed between a blue downward arrow icon and a blue upward arrow icon. Below this, there is a white button with a blue border labeled 'Next'. At the bottom right, there is another white button with a blue border labeled 'Back'. A yellow-bordered box contains a warning message: 'You are not committing to stopping display of speed values by pressing Next at this point'. Five callout boxes with orange borders and lines pointing to specific elements provide additional information: one points to the '1 day' text, another to the downward arrow, a third to the upward arrow, a fourth to the 'Next' button, and a fifth to the 'Back' button.

Speed Display – Screen 4

Speed display

Changing Rally Time, starting a new event, resetting to factory defaults and/or removing the internal battery will have no effect on the time before RaliTripp will display speed values

Press Next to continue

Next Time: 1 day extension

You are not committing to stopping display of speed values by pressing Next at this point

Back

Number of days selected on previous screen

If the number of days is an extension, "extension" is shown

Open "Speed Display – Screen 5"

Return to "Settings" menu

Speed Display – Screen 5

Speed display

Enter your RaliTripp password and press Set

↑ ↑ ↑ ↑

0 0 0 0

↓ ↓ ↓ ↓

Set

Time: 1 day extension

***** You are now committing to stopping display of speed values by pressing Set at this point *****

Back

Adjust password digits up or down

! The password is supplied with the unit.
**** KEEP IT SAFE ****

! If the password is correct a "Done" message will be displayed

If the password is not correct an "Error" message will be displayed

Press to set the number of days/extend by the number of days

Number of days selected on previous screen

Time: 1 day extension

If the number of days is an extension, "extension" is shown

Return to "Settings" menu

Settings

Simulation

Set Simulation On/Off.

!! If simulation is On, the background of the button is red on both the Settings Menu and this screen

Current state of Simulation
i.e. On or Off

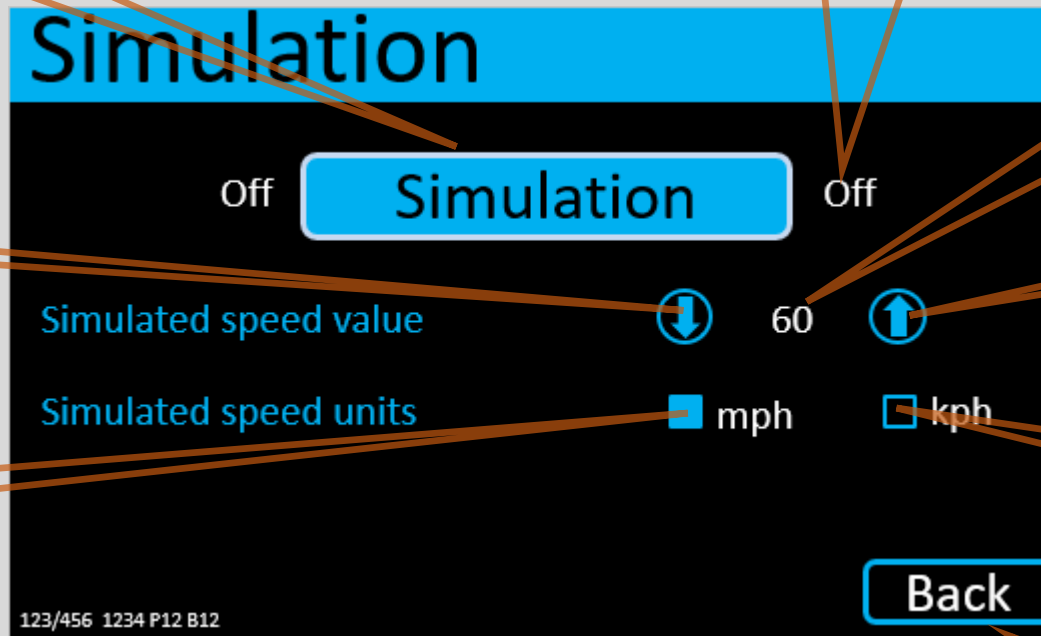
Simulation speed value. Selectable between 15/30/45/60

Decrease value

Increase value

Simulation speed is in mph

Simulation speed is in kph



!! "Simulation speed units" controls the underlying simulated speed. It does not affect the mode speed display units set on "Settings/Options/General". So, for example, if the simulation speed is set to 60kph on this screen and "Settings/Options/General" specifies mph as the speed display units, the displayed speed will be 37mph. Similarly, if the simulation speed is set to 60mph on this screen and "Settings/Options/General" specifies kph as the speed display units, the displayed speed will be 96kph

Return to "Settings" menu

Frequent Questions

General

- **How do I/a scrutineer know that the display of speed has been suppressed?**
 - Display any screen shows the padlock symbol instead of a speed value. The number in the padlock is the number of whole days that the display of speed will be suppressed for
 - Press the "Speed Display" button on the Settings menu and the (live) remaining time that the display of speed will be suppressed is shown.
- **Can I manually reduce or reset the suppression time to zero?** No - actions such as turning RaliTripp off/on for any duration, changing the Rally Time one or more times, resetting the unit to factory defaults via the menus, or removing the internal battery of the unit will not reduce the suppression time. If you need the suppression time to be set to zero, either wait for the elapsed time to pass or return the unit to The Basic Roamer Company for re-programming.
- **Can a RaliTripp show average speed?** No - average speed cannot be shown in any circumstances.
- **What is Simulation Mode?** Simulation mode allows you to practice using the unit as if the vehicle is moving, but outside of the vehicle or in a non-moving vehicle. Simulation mode is set in the **Settings/Options** screen. The simulated speed can be toggled between zero i.e. not moving and the selected speed, by pressing the simulated speed "button" that appears on most screens – this allows you, for example, to do practice starts/finishes in the main mode screens.

Frequent Questions Functional

- **What happens if the vehicle starts moving when I'm in Simulation mode?** The pulses from the external sensors are ignored and RaliTripp stays in Simulation mode.
- **What's the maximum speed shown?** 360mph/542kph. At or above these speeds, the speed display is constantly set at the maximum and the trip distances do not update.
- **What information is retained when RaliTripp is turned off?** All information is retained - trip distances, stopwatch values, calibration values, display settings etc. If any stopwatch is running when RaliTripp is turned off, then the value shown when RaliTripp is turned on will reflect, to within a second, the elapsed time that RaliTripp has been turned off.
- **Why does the low battery warning show when I only have an Auxiliary battery connected?** The low battery warning is for the main battery only – so if only the auxiliary battery is battery is disconnected, the main battery voltage is measured as 0 volts, which is below the main battery warning voltage...so the low battery warning is shown.

Frequent Questions

Electrical

- **How do I connect up a RaliTripp?** Please see the Installation Booklet.
- **What are the power supply min and max voltages?** The minimum supply voltage is 9v. The maximum is 18v. Some inductive proximity sensors require RaliTripp to be connected to a higher minimum supply voltage, ranging from 10v to 12v.
- **Why might I need an Auxiliary Battery?** An auxiliary battery is useful for two reasons:
 - To keep RaliTripp powered up when the main battery is disconnected by a battery master switch e.g. in a service area, where you want to use the Service Mode - alternatively, you can power RaliTripp with a wire that bypasses the master switch and is always “live”
 - As a backup to the main battery. If the main battery connections fail, or the voltage of the main battery falls below the auxiliary battery voltage, the auxiliary battery will power RaliTripp. There is no loss of data/display flicker when RaliTripp switches between the batteries.
- **How can I check the electrical installation?** Use the **Settings/Connections** screen. This shows the state of each sensor - bolt or metal detected/not detected for inductive proximity sensors S1 and S2, and pulse value (high or low) for speedo/gearbox/pulse sensors. Note that some inductive proximity sensors will show “on” when metal is detected, others, might show “off”. The **Settings/Connections** screen also shows the voltages for the main and auxiliary batteries and the button status for the remote control unit.

Frequent Questions

Sensors

- **How many sensors can I connect at once?** Up to 4 at once - up to 2 inductive proximity (“wheel”) sensors and up to 2 sensors that produce pulses. Only one sensor can drive RaliTripp at any one time and this is known as the “active sensor”. The active sensor is selected via the **Settings/Select Active Sensor** screen.
- **What’s the maximum sensor input pulse rate?** Each sensor input can handle up to 5000 pulses/per second. There will generally be no need for any external pulse divider circuitry.
- **Can each sensor have a different calibration value?** Yes – the Settings/Calibration screens allow the calibration value for each sensor to be set.
- **When I’ve completed a “measured distance” calibration run, what do I do if say the two front wheel sensors show slightly different pulse counts?** If the pulse counts are different, then one wheel has travelled further than the other (i.e. the measured distance was not, on average, a straight line). As the organisers are unlikely to tell you whether they used their left or right front wheel for the measured distance, then leave the pulse counts as they are, or set each one to the average of the two via the **Calibration/Direct Entry** screen.
- **When I’ve completed a “measured distance” calibration run, what do I do if say the two front wheel sensors show very different pulse counts?** Check the sensors/installation – it would be expected that the counts will be very similar.

Frequent Questions

Calibration and Units

- **What do I need to understand about sensor calibration?** When setting a calibration value for a sensor, make sure that the units of the calibration distance (i.e. miles or kilometres) is set appropriately.
- **What do I need to understand about the displayed speed and trip distances?** You can choose whether to see speed in mph or kph and distances in miles or kilometres via the **Settings/Options/General** screen. *There is no need to/do not change anything on the Settings/Calibration screens when you change the speed and/or distance display units.*
- **Why do you allow, for example, speed to be displayed in mph and distances in kilometres? Why not just have a single “imperial/metric” selection?** Some navigators in some locations (e.g. road rally navigators in the UK) like to see the speed in mph as it matches the (UK) speed limit units, and distances in kilometres as it matches the (metric) UK Ordnance Survey maps.
- **If I start an event in an “imperial country” and it then moves to a “metric country” or vice versa, what do I need to do?** If there is no new measured distance calibration run for the new country, do nothing on the **Settings/Calibration** screens – just choose whether to see speed in mph or kph and distances in miles or kilometres via the **Settings/Options/General** screen, If there is a new measured distance calibration run, then use the **Settings/Calibration** screens, making sure the correct units for the measured distance are set.



Notes



A series of horizontal dotted lines for writing notes, consisting of 18 rows of evenly spaced dots.



Notes



A series of horizontal dotted lines for writing notes, consisting of 18 rows of evenly spaced dots.

RaliTripp Tripmeter

Road Mode

Rally Mode

Regularity Mode

Jogularity Mode

Stage Mode

Due Time Mode

Time Mode

Totals Mode

Service Mode

It's a Navigator's Thing