

The Basic Roamer Company

RoamerTime DB

It's a Navigator's thing...



RoamerTime-DB is the dashboard mounting version of the **RoamerTime** cost effective timing unit for **Road, Regularity** and **Stage** rally navigators/co-drivers, and has:

- a 12/24 hour hh:mm:ss time of day clock, which is easily set to any second, rather than waiting "for the minute"
- a stopwatch with three modes – **Road, Stage** and **Regularity** - which can be paused, re-started (without loss of time) and zeroed
- the ability to hold the clock for a selectable time when the stopwatch is paused
- adjustable display brightness
- operation via an external 7-16v DC supply
- all information being retained, including the clock time and the running stopwatch, when the unit is powered off or the external power fails
- simple fixing via thumbscrews and rubber washers to the rear of the unit allowing fitting to all types of vehicles

Optional Remote Unit

An optional remote control unit that allows operation of most functions without touching the unit. A RoamerTime-DB unit is identical to a RoamerTime unit but is designed for permanent fitting to a vehicle and does not require the internal battery compartment for standalone operation.



The optional remote unit connects to the **RoamerTime-DB** via The socket on the left hand side of the unit.

There are two buttons on the remote unit:

- The **black** button at the top provides exactly the same functions as the **T** (top) button
- The **red** button at the bottom provides exactly the same functions as the **B** (bottom) button.

This version of the **RoamerTime-DB** user manual is for **RoamerTime-DB** software version 3.00.x (see *Options*)

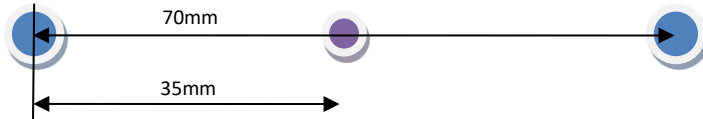
Mounting a RoamerTime-DB unit

A **RoamerTime-DB** is mounted via the rear panel. Captive M6 thumbscrews can be fixed directly to the vehicle or via a custom made bracket to tilt the unit to the best viewing angle. The threaded portion of the thumbscrews require a 6.5mm clearance hole.

The centre distance between the outer pair of captive riv-nuts is **70mm**.

A 10mm dia hole (**35mm** on centre) is also required for the 12v power cable.

It is advisable to protect the inside of the central hole with a rubber grommet – (supplied)



The thumbscrews (x2) and rubber washers (x4) should be used when mounting the unit.

For correct fitment the washers must be fitted **a)** between the unit and the vehicle/mounting panel and **b)** between the mounting panel and the knurled head of the thumbscrew. This allows for a degree of “cushioning” which helps to protect the unit.

IT IS VERY IMPORTANT THAT ONLY THE SUPPLIED THUMBSCREWS ARE USED TO MOUNT THE UNIT. LONGER SCREWS WILL CAUSE DAMAGE TO THE UNIT

External Power

A RoamerTime-DB unit must be connected to a 7v-16v externally fused (3A max) DC power supply via the power cable coming from the rear of the unit (**brown wire +ve, blue wire 0v**)

If the power supply voltage falls below the minimum value, the unit quickly flashes the entire display once every second. If the supply voltage falls further, the display will go to minimum brightness. If the supply voltage falls even further, the normal displays will be replaced with the word "batt" until the voltage rises sufficiently, when normal operation will resume.

If the external power is applied with reverse polarity (i.e. +ve and 0v swapped) the unit will not power up – however, no electrical damage will occur.

Displays

There are two displays on a **RoamerTime-DB** unit:

- **Top display:** a 12/24hr clock showing hh:mm:ss
- **Bottom display:** a stopwatch with three modes – **Road, Stage and Regularity** – see **Options**.
 In **Road** and **Regularity** modes the display is in whole seconds and shows h:mm:ss with leading zero hours and zero tens of minutes blanked.
 In **Stage** Mode all leading zeroes are blanked, the display is in tenths (i.e. mm:ss.t) up to 59:59.9, then h:mm:ss with leading zero hours and zero tens of minutes blanked.

Operating the Unit

Turn the unit on or off using the rocker switch.

The first time the unit is switched on, the displays will be at minimum brightness and:

- the clock will start from 00:00:00 in 24 hour mode
- the stopwatch will be in **Road** Mode and set to 0.00

After initial switch on, the displays are shown according to the last display mode selected (see below) and at the last brightness setting selected.

There are two multi-function buttons on the right hand side of the unit:

- the **T**op button or **T** – the **black** button
- the **B**ottom button or **B** – the **red** button.

If **T** is pressed when the unit is switched on, various options can be set for the unit – see **Options**.

T has a different effect dependant on how long it is pressed:

- a short press changes the display mode, in the sequence:
 - clock and stopwatch displayed
 - clock only displayed
 - stopwatch only displayed
- a medium press (more than 2 seconds) allows the display brightness to be changed - use **B** to increase the brightness from 0 (min) to 15 (max) one step at a time, or hold down to continuously change the brightness.
- a long press (more than 5 seconds) will allow the clock to be set. Initially the hh value will flash - use **B** (one press at a time or hold down) to increment hh. Press **T** to flash the mm value - use **B** (one press at a time or hold down) to increment mm. Press **T** to flash the ss value - use **B** (one press at a time or hold down) to increment ss. Press **T** again to set the clock to the displayed value. Note that the clock stops to allow accurate setting when **B** is used to change the hh, mm or ss values. The clock is set using 24 hour times. (**B** also controls the stopwatch or is used for setting the brightness and clock - see above.)

In **Road** and **Stage** modes, the stopwatch acts as a conventional stopwatch allowing general purpose road timing or Special Stage timing, by allowing the stopwatch value to be frozen as the Flying Finish line is crossed:

- a short press will start the stopwatch
- the next short press will freeze the stopwatch display but the stopwatch will continue running in the background). The clock will also freeze hold for a selectable time (see **Options**) and then unfreeze, but pressing **T** at any time will also unfreeze the clock
- the next short press will unfreeze the stopwatch display, with the displayed value resuming at the time that the stopwatch has now reached (the clock will also unfreeze)

- a medium press will reset the stopwatch to zero
- a long press will reset the stopwatch to zero, then start it again, taking into account the time spent resetting the stopwatch to zero.

In **Regularity** mode, the stopwatch display can be frozen when entering a Time Control, allowing the time to be manually noted, but the stopwatch is reset to zero and starts counting in the background in order to accurately represent the time being taken until the next Time Control:

- a short press will start the stopwatch
- the next short press will freeze the stopwatch display, but the stopwatch will restart from zero in the background. The clock will also freeze for a selectable time (see **Options**) and after that time the clock and the stopwatch will unfreeze - but pressing **T** at any time will also unfreeze the clock and stopwatch
- a medium press will reset the stopwatch to zero.

Options

The unit has a number of options that you can set to determine how some parts of the unit operate and/or how the displays are shown. The options are selected by turning the unit on with **T** pressed. The different options are selected by pressing **T**, and the value of the option is set by pressing **B** one or more times. To leave the options, wait for 6 seconds without pressing any buttons – the unit will then start normally.

The options are:

- the **stopwatch** mode – top line shows **StOP** and values on the bottom line are **Stage**, **Road** or **Regularity**
- how long the clock is held for when the stopwatch is paused – top line shows **HOLD** and values on the bottom line are 0 (i.e. not paused), 5, 10, 15, 20, 25, 30, 45, 60, 90, 120, 150 or 180 seconds
- the **clock** mode – top line shows **CLOC** and values on the bottom line are 12 or 24 hour mode
- the current version of the software in the unit – top line shows **SOFT** and the software version 3.00.x is shown on the bottom line.

When the **stopwatch** mode is changed, the clock hold time is reset to the following values (which can then be altered if required):

- 0 seconds for **Road** mode, allowing for general purpose road timing
- 60 seconds for **Stage** mode, allowing the stopwatch and clock times to be noted while at the Stop Control
- 15 seconds for **Regularity** mode, allowing the stopwatch and clock times to be noted while at a Time Control.