

INTRODUCTION

Thank you for purchasing an Origin b2, the GPS based driver safety, information and speed trap warning system. The product uses the latest available technology to inform drivers that they are entering an area where the police have deemed it necessary to position a speed trap, or an area when the driver should take particular care and monitor the speed of the vehicle closely.

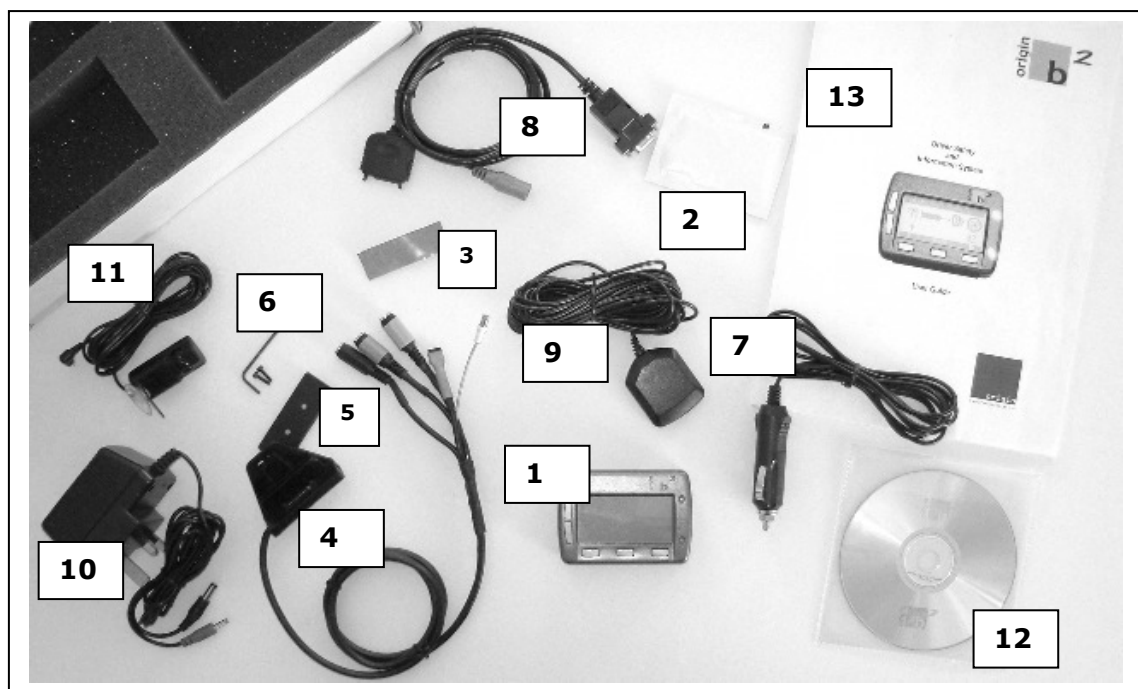
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Section 1: **Origin b2 System Components**

The following items are supplied as standard with the Origin b2; all will be found in the box:

1. Origin b2 unit
2. Solvent wipe
3. Clear very high bond adhesive pad with plastic peel-off protectors
4. In-car cradle with Cable Management System cable
5. Mounting flap for in-car cradle
6. Allen key and two screws for fastening mounting flap to rear of in-car cradle
7. Cigarette lighter power supply and lead
8. In house download connector – for updating the Origin b2 database
9. GPS antenna with long cable
10. 240v power supply with two cables attached (for use when updating the Origin b2)
11. Windscreen mounted laser detector module
12. CD Rom – for updating the Origin b2 database
13. Origin b2 user guide



Section 2: **Quick Start**

To get on the road with your Origin b2, you need to do the following:

- i. Check all the system components have been supplied; use the check list in Section 1
- ii. Install the Origin b2 in your vehicle; see Section 5.6 for mounting and positioning options
- iii. Make sure the antenna has clear sight of the sky (with the black plastic side facing upwards), the antenna plug is firmly inserted into the antenna socket on the Cable Management System and the cigarette lighter plug has been firmly inserted into the cigarette lighter
- iv. When the Origin b2 is powered for the first time, you will need to wait for satellite lock; this can take up to 15 minutes the first time you use the unit
- v. Each unit has been pre-programmed with our recommended alert, proximity and features settings. You can adjust these by following instructions in Section 6.

PLEASE NOTE THAT THE "LIMITATOR" AND "DIRECTIONAL" FEATURES ARE BOTH ACTIVATED - SO THE ORIGIN b2 WILL NOT PROVIDE FULL ALERTS IF YOU ARE TRAVELLING UNDER THE PREVAILING SPEED LIMIT OR IF THE CAMERA IS FACING IN THE OPPOSITE DIRECTION FROM YOUR DIRECTION OF TRAVEL. SEE SECTION 6.3 FOR MORE INFORMATION OR TO DEACTIVATE THESE SETTINGS.

- vi. Once your Origin b2 has achieved satellite lock, you're ready to drive, safe in the knowledge that your vehicle is now equipped with the most advanced speed trap warning and driver safety and information system available in the UK.

PLEASE NOTE THAT ALTHOUGH YOUR ORIGIN B2 HAS BEEN SUPPLIED TO YOU WITH SPEED TRAP DATA ALREADY DOWNLOADED, AND CAN THEREFORE BE USED "STRAIGHT OUT OF THE BOX", WE RECOMMEND THAT YOU PERFORM A DOWNLOAD AS SOON AS POSSIBLE IN ORDER TO BRING THE SPEED TRAP DATABASE FULLY UP TO DATE.

Section 3: **Introduction to the Origin b2**

3.1 Background

Origin Technologies Limited, the manufacturer of the Origin b2, has been involved with in-car GPS systems since 2001 when the Origin blue i was introduced. The Origin blue i was the most advanced speed trap warning system available at the time and throughout its life; it won much positive acclaim from users and the media alike, including a five star rating and Recommended award from the highly regarded Auto Express magazine in October 2002.

The Origin b2 took over 18 months to develop and bring to market; Origin Technologies drew on the considerable experience gained from manufacturing and selling the Origin blue i and took on board some customer feedback. The result is the smallest, most usable and most feature packed product of its kind available in the World today.

Origin Technologies has invested heavily in patent protection for the features and functionality which make the Origin b2 a class leading product; at the time of the launch of the Origin b2, six UK patents had been granted to Origin Technologies.

3.2 What is GPS?

At the heart of the Origin b2 is a GPS receiver. GPS (Global Positioning System) was developed by the American Government as a global method of locating and tracking for defence purposes, and the system has been adopted on a universal basis by the marine and aviation sectors.

During April 2000, the accuracy of GPS was upgraded by the US government to under 10 metres. With the correct signal receiving equipment, the benefits of GPS are available free to any person and this has caused an explosion of affordable GPS based devices. The incorporation of a high quality, 12 channel GPS receiver into the Origin b2 means that the latest available technology has been harnessed and developed to be of use to every motorist in the country today.

3.3 How the Origin b2 works

The Origin b2 is equipped with a high quality, state of the art 12 channel GPS receiver; when in use, the unit will lock onto several of the twelve satellites orbiting the Earth in the Northern Hemisphere. Providing that a minimum of three satellites are locked onto, then triangulation calculations are used to establish the exact position of the vehicle on the road network (to an accuracy of under ten metres).

The vehicle position is constantly compared with a database, integral to the Origin b2, containing the GPS co-ordinates of all fixed installation speed traps (including Gatso cameras, Truvelo cameras, DS2 (Speedmaster) installations and SPECS average speed cameras). In addition, alerts will be provided for known accident blackspots, schools and Congestion Charging Cameras.

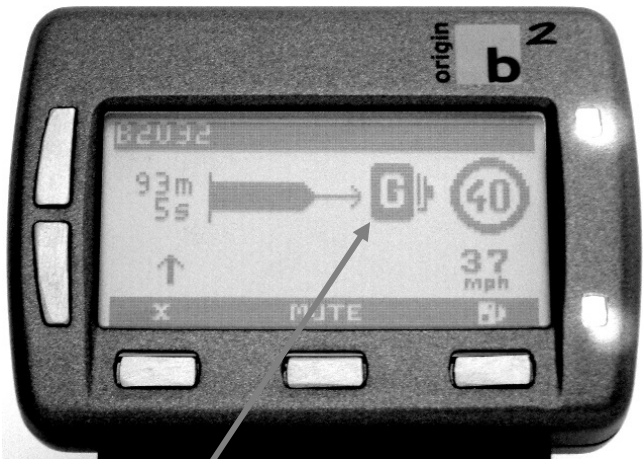
When the vehicle enters within a user-defined distance of a speed trap or other stored location, the driver will be alerted both visually and audibly.

The speed camera database is strictly controlled and monitored by Origin Technologies Limited; a warning will be provided only when a speed trap is actually present. Consequently, no false alarms will be experienced when using the Origin b2.

Every Origin b2 can be updated at any time over the internet using the CD Rom and cables supplied (or, alternatively, via an optional modem); once connected, contact is automatically made with Origin's central server, hosted by an ISP (Internet Service Provider); the latest speed trap data will be downloaded to the Origin b2 at this time.

The memory within the Origin b2 has the capacity to store the required data for over 20,000 speed trap sites.

3.4 Speed trap types



Symbol showing alert type

The Origin b2 will provide alerts for ALL types of fixed installation speed traps, namely the widely deployed Gatso cameras, Truvelo cameras, DS2 (Speedmaster) installations and SPECS average speed cameras.

The various symbols shown on the Origin b2 are as follows:

GATSO CAMERA	TRUVELO CAMERA	SPECS AVERAGE SPEED CAMERA	SPECS AVERAGE SPEED CAMERA ZONE END	DS2 SPEEDMASTER CAMERA INSTALLATION

MOBILE LASER ALERT	LASER DIFFUSER ALERT	ACCIDENT BLACKSPOT	SCHOOL	CONGESTION CHARGING CAMERA

PERSONAL WAYPOINT

The software for the Origin b2 has been developed in such a way as to make the device future proof; the unit is update-able, via the internet or the optional modem, to incorporate alerts for any new type of fixed installation speed trap - in the event that new fixed speed trap technology is introduced onto British roads at any time in the future.

A small windscreen-mounted laser detector module is supplied as standard with the Origin b2; this provides the user with warnings for mobile speed traps, the vast majority of which deploy laser gun technology.

3.5 Road safety

The Origin b2 has been developed with road safety very much in mind; the unit will alert drivers to the presence of fixed installation speed traps, many of which are sited at accident blackspots. The British government intend that such speed traps act as a deterrent, with drivers being aware of their presence and consequently checking their speed when nearby. The Origin b2 assists drivers in doing this by providing them with an audible and visual warning in plenty of time (up to 2000m away), thus allowing them to check their speed and reduce it if necessary IN PLENTY OF TIME, without having to resort to panic braking as the speed trap comes into view.

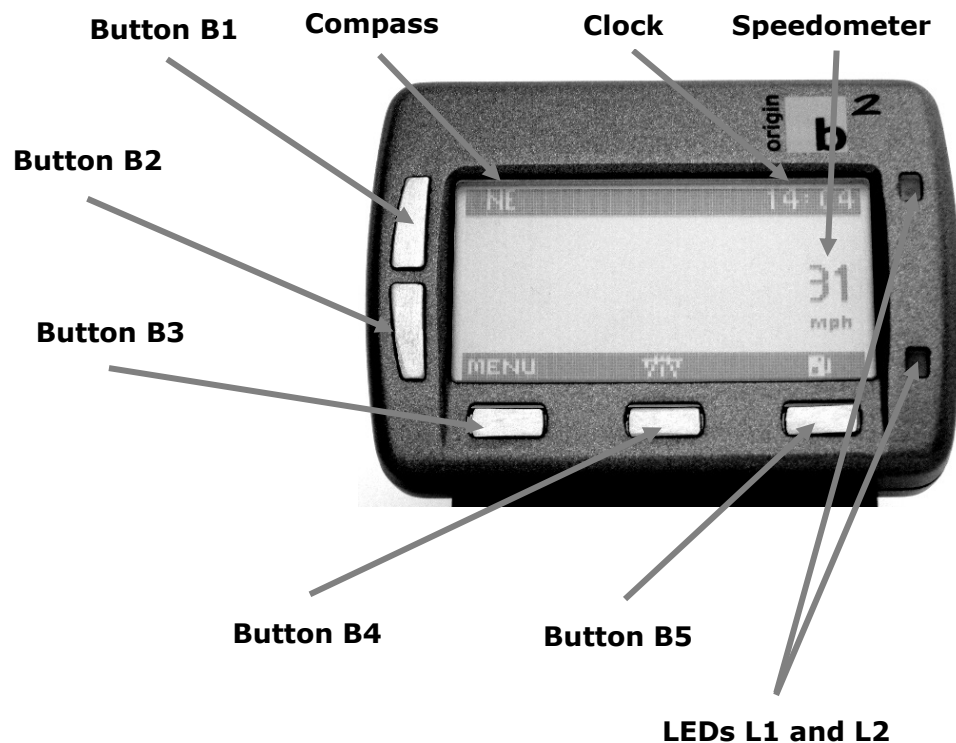
The Origin b2 also provides drivers with warnings along stretches of road which are known accident blackspots and provides warnings (at certain times of working week only) when the user is in the near vicinity of a school.

3.6 Overseas use

Extreme caution should be exercised if the Origin b2 is used abroad; this type of product is illegal in some European countries, notably France. If the French police find a radar detector or GPS device such as the Origin b2 in your car, you may be liable to a fine and have the equipment confiscated.

Section 4: **Origin b2 Controls**

The image shows the Origin b2 in non-alert mode.



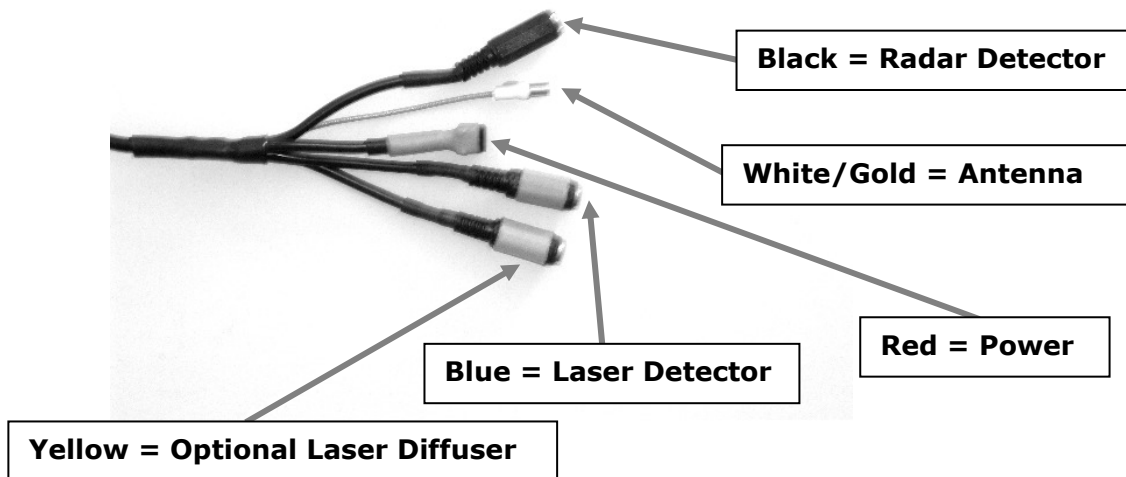
4.1 Buttons

Button B1	Volume Up/Scroll Up/Power On/Off
Button B2	Volume Down/Scroll Down
Buttons B3 – B5	Function Controls; these buttons should be used in conjunction with the on-screen legends

4.2 Lights

- L1 LED: will show red when the unit has no satellite lock; will show flashing red when in vicinity of a speed trap; flashing becomes quicker as speed trap is approached.
- L2 LED: will show red when the unit has no satellite lock; will show flashing red (in sync with L1) when in vicinity of speed trap; flashing becomes quicker as speed trap is approached.

4.3 Connectors



Section 5: Using the Origin b2

5.1 First database download

Although the memory within the Origin b2 contains speed trap and other data and the unit will operate "straight out of the box", we recommend that you connect your unit to the central server (via the internet, using the disc/cables supplied or via the optional modem) as soon as possible when you first receive the unit in order to update the speed trap and other databases by receiving the latest available data from our server. To do this, please follow the instructions in Sections 5.2 and 5.3 (below).

5.2 Connecting your Origin b2 to a PC for database updates via the internet

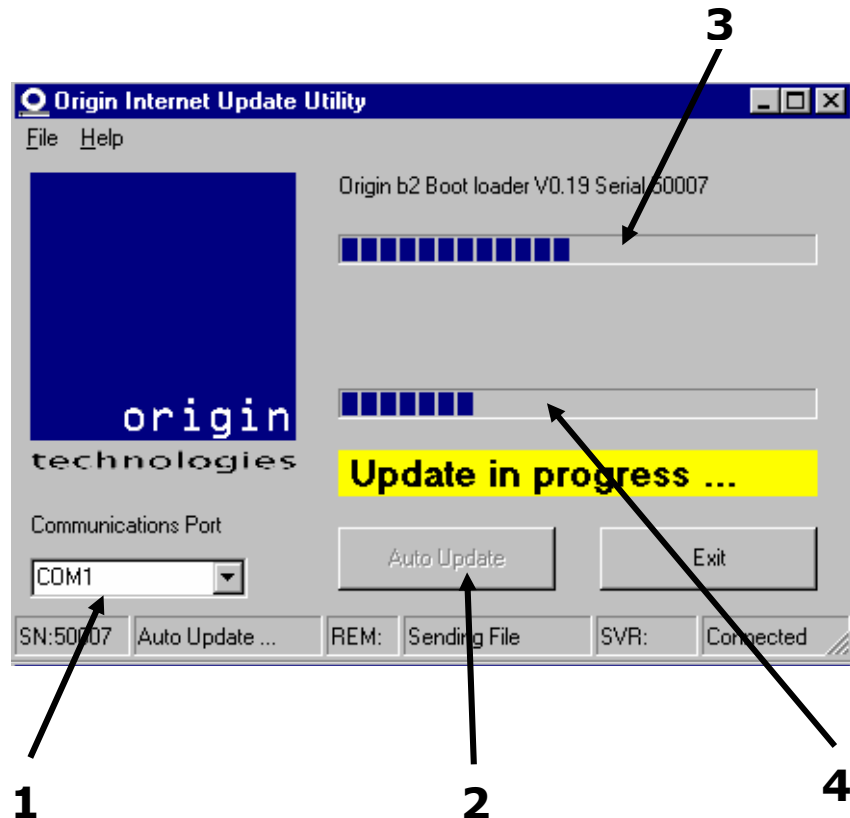
To do this, you will need to download the supplied software (CD Rom) to your PC; the PC must have a live internet connection.

Insert the supplied CD Rom into the CD Rom drive on your PC. When you see the Origin Technologies logo on your PC display, click on it and follow the on screen instructions to install the Origin b2 download utility. Once the Origin b2 update utility has been installed on your PC, you should click on the Origin Technologies icon on your PC desktop whenever you wish to update the database on your Origin b2. You will then need to connect the Origin b2 to a Comms port on your PC. To do this:

- i. Plug the in-house download connector (8) into the connector on the underside of the Origin b2, ensuring it clicks firmly into place. The front of the connector which plugs into the underside of the Origin b2 has a dimple; the side with the dimple should face you.
- ii. Take the longer lead from the in-house download connector and connect the plug at the end of this lead into the Communications Port (Com 1, 2, 3 or 4) on the back of your PC/laptop.
- iii. You will then need to power the Origin b2. Plug the blue coloured plug of the 240v power transformer (10) into the red connector at the end of the

shorter of the two leads stemming from the in-house download connector, now connected to the underside of the Origin b2 unit. The other (black) plug from the 240v power transformer WILL NOT BE USED (it is only used in the event that the optional modem is purchased).

- iv. When the Origin b2 is powered anywhere other than in a car, it will just show the Origin b2 logo on the screen. If you want to go from the logo screen to the Menu/Satellite Search screen, press Button B5.
- v. With the Origin b2 unit powered, click on the Origin icon showing on the desktop (display) of your PC. The Origin Internet Update Utility will show on the PC (see image below)



- vi. Click on the Communications Port button (labelled 1 in the visual) if you have plugged the in-house download cable into anything other than Comms port 1 on the back of the PC. You will be able to select the correct Comms Port using this button
- vii. Click on the Auto Update button (labelled 2 in the visual)
- viii. The LCD display on the Origin b2 will show the unit's serial number and a "boot loader" (which is the software that performs the download) version number, together with a download graphic
- ix. The Origin Internet Update Utility (on the screen of your PC) has two progress bars: the top one, labelled 3 in the visual, shows the progress of the particular part of the download in progress at that moment; the more useful progress bar is labelled 4 in the visual; this shows the overall progress of the download
- x. When the download is complete, the words "Update in progress" on the Origin Internet Update Utility (on the screen of the PC) will change to "Update Successful"
- xi. The screen on the Origin b2 unit will revert to the Satellite Search screen. It may now be unplugged and placed in the car. Note: to unplug the in-house download connector from the base of the Origin b2, simply squeeze the sides of the connector and it will release.

NOTE: internet downloads are only possible via Windows based computers with a live internet link; downloads via Apple Macintosh computers will be available during the latter part of 2003.

NOTE: problems may be experienced if the internet connection on your computer passes through a 3Com OfficeConnect Remote 612 ADSL Router (3C612). There is a minor technical problem with this router, which is no longer manufactured or supported, which means downloads to the Origin b2 will appear to freeze; in fact the download has not frozen, but will continue after a 6 minute "pause".

5.3 Connecting your Origin b2 to the (optional) modem for database updates.

(NOTE: the modem download facility will be available in July 2003)

Connect your Origin b2 to the modem and the modem to a telephone line as follows:

- i. Plug the in house download connector (8) into the connector on the underside of the Origin b2, ensuring it clicks firmly into place. The front of the connector which plugs into the underside of the Origin b2 has a dimple; the side with the dimple should face you.
- ii. Plug the blue coloured plug of the 240v power transformer (10) into the red connector at the end of the shorter of the two leads stemming from the in-house download connector, now connected to the underside of the Origin b2 unit.
- iii. Connect the Origin b2 unit to the modem by plugging the serial port connector on the longer lead of the in-house download connector into the supplied male/female converter and plug this into the serial port on the rear of the modem.
- iv. Plug the black coloured plug of the 240v power transformer (10) into the power socket on the rear of the modem.
- v. Connect the telephone cable (supplied with the modem) to the modem and to the wall telephone socket (NB the smaller plug should be inserted into the modem, the larger plug to the telephone socket).
- vi. Turn on the modem power switch; this is the toggle switch located on the rear surface of the modem.
- vii. The screen on the Origin b2 will display a download graphic.
- viii. The unit will then automatically connect itself to Origin's central server in order to download the latest speed trap/other data via an 0845 Local Call number
- ix. The screen will then display various status messages. You may notice that the LED light labelled "RD" on the front panel of the modem flashes quickly during most of the download process; this indicates that data is being transmitted.

It is possible to add a single digit prefix to the 0845 number dialled by the Origin b2 to connect to the server. This will be necessary if you have to prefix normal numbers dialled from your phone (usually on office/switchboard systems).

To add a prefix:

- i. Press Button B3 on the Origin b2, labelled Menu
- ii. Press Button B2 (at the side of the LCD display) on the Origin b2 and scroll down to the heading "General"
- iii. Scroll down until the sub heading "Modem Prefix" is highlighted. The factory default setting of "None" is shown at the right hand side of the display
- iv. Use Button B3 (labelled "-") and Button B4 (labelled "+") to scroll up through the numbers 0 to 9. If no prefix is required, scroll through the numbers 0 to 9 until "None" is displayed.
- v. When the required number is reached, press Button B5 (labelled "Exit") to return to the Menu screen and again to return to the Passive/Satellite Search screen.

When the download is complete the unit should be turned off, disconnected from the modem and is then ready for use in your vehicle. To disconnect the connector from the underside of the Origin b2, you should squeeze each side of the connector and it will release.

In the unlikely event of an error occurring during the download process, you should disconnect and reconnect the power lead from the Origin b2 and reboot the modem.

NOTE: ANY EQUIPMENT (SUCH AS SKY TELEVISION, COMPUTER EQUIPMENT ETC) CONNECTED TO THE TELEPHONE LINE, OR THE BT "CALL WAITING" FACILITY, MAY INTERRUPT THE DOWNLOADING PROCESS. IT IS ADVISABLE TO DISCONNECT THIS EQUIPMENT FROM THE TELEPHONE LINE PRIOR TO CONNECTING THE ORIGIN b2

NOTE: the phone call made by the Origin b2 is to an 0845 (local call) number

NOTE: Any newly installed speed trap sites, or speed trap sites which you believe have been removed, which you have stored in your unit by pressing the "Camera" button (see Section 6.9) will be uploaded to Origin at the same time as the download takes place. Once these locations have been uploaded to the Origin server, they will be deleted from your Origin b2 unit.

5.4 Keeping your Origin b2 up to date: database updates

Once the Origin b2 is in use, we recommend that you connect it to the central server every week in order that your unit is kept up to date with the latest available data, especially speed trap location information. To do this, follow the instructions in Section 5.2 (above) for internet updates and Section 5.3 for updates via the optional modem

5.5 Free six month subscription and annual subscriptions

Each new Origin b2 is supplied with a six month subscription included in the purchase price; this enables you to connect your Origin b2 unit to the Origin server at any time, via the internet or the optional modem, in order to update your unit with the latest speed trap/other data.

Whenever you wish to download the latest data, the method described above in Section 5.2 should be used for the Origin b2 to receive database updates via the internet and the method described above in Section 5.3 should be used for the Origin b2 to receive database updates via the optional modem.

When you first purchase the Origin b2, you will be able to update the database in the unit only once; after this download has occurred, you will have to register the unit with Origin Technologies in order to receive further database updates. It is recommended that you register the unit by visiting www.originb2.com and clicking on the "my b2" section; alternatively, you may complete and post/fax the enclosed registration form or contact Origin Technologies by telephone, on 020 7381 3000, to register the unit.

The status screen, displayed when the Origin b2 is starting up, will show the subscription expiry date; however, when the unit is new the expiry date will not be shown. It is recommended that you download the latest data as soon as possible after you have purchased the Origin b2 unit, as the data on it may be out of date.



Once the first download has taken place, then the subscription expiry date will show in the unit status screen on start up.

It is possible to check the subscription period remaining/expiry date on the "my b2" section of the www.originb2.com web site; alternatively, this information may be viewed on the Origin b2 unit, as follows:

- i. Press the Button B3, labelled "Menu", on the Origin b2
- ii. Press Button B2 to scroll down to the heading "General"
- iii. Press Button B3, labelled "Select"
- iv. Use Button B2 to scroll down to the sub heading "Subscription"
- v. Press Button B3, labelled "Select"
- vi. You will then see the subscription status of the unit
- vii. Press Button B5, labelled "Exit" three times to return to the passive (non alert) screen or the satellite status screen (if the unit is searching for satellite lock).

When the subscription is due to expire within three weeks, a three-beep warning will accompany the subscription screen whenever the unit is started up.

When the subscription has expired, you will not be able to download the latest database updates to your Origin b2. In order to continue receiving database updates, you should renew your subscription by clicking on the "my b2" section of the www.originb2.com web site or by calling Origin Technologies on 020 7381 3000.

After the initial free six month subscription, the ANNUAL subscription fee is £50 including VAT.

It is highly recommended that you renew your subscription, as the Origin b2 should be updated regularly in order that you continue to be warned of all newly installed speed traps and the other databases are kept up to date. If the Origin b2 is not updated regularly, its usefulness will diminish over time and you will not be able to rely on the unit to give you the best possible protection available.

5.6 In-car set up

It is best to carry out these steps in your car:

NOTE (1): All Origin b2 units are supplied with the antenna on an extended long lead; the antenna should be placed on the front dashboard or (preferably) on the rear parcel shelf IN SIGHT OF THE SKY, with the black plastic side facing upwards. The main Origin b2 unit may then be placed anywhere in the vehicle (on the dash top or lower down in the vehicle). We recommend that the main Origin b2 unit be installed in a discreet location, whilst still in close proximity and easy reach of the driver. A location on the front of the dashboard or near the gear shift is worth investigating.

NOTE (2): The front windscreens of some vehicles have a metallised content (see list below). It is not possible to achieve a good satellite lock through these front screens, and the antenna (with supplied extension lead) of the Origin b2 should be located on the rear parcel shelf in such vehicles. If the Origin b2 is to be fitted to an estate car the antenna should be located on one of the side shelves, adjacent to the removable parcel shelf. If the Origin b2 is to be fitted in a convertible car, then the antenna should be located at the right or left corner on the dash top, just behind the windscreen.

Some of the models in the ranges of the following manufacturers should have the antenna located on the rear parcel shelf: Ford (especially models with heated front windscreens), Lexus, Alfa Romeo, BMW, Mercedes, Aston Martin, Jaguar, Land Rover, Range Rover, Renault, Peugeot 406, Citroen (C3,C5). Convertible drivers should locate the antenna at the bottom left/right corner of the front windscreen, as there is normally a "clear" area at the bottom left or bottom right of the windscreen through which it should be possible to achieve satellite lock.

The Origin b2 must always be installed in your vehicle with the supplied in-car cradle and Cable Management System cable. The in-car cradle has been designed so that it may be quickly installed in any car and so the Origin b2 unit may easily be dropped into/lifted from it.

Removing the Origin b2 unit from the car is made very easy by the fact that there are no cables directly stemming from it; the Origin b2 unit connects to the in-car cradle via a mobile phone-type connector, one half of which is located on the underside of the Origin b2 with the other half located on the in-car cradle.

Stemming from the in-car cradle is the Cable Management System cable; on the end of this cable are five connectors (for the remote antenna, power connector, laser detector, the (optional) radar detector and the (optional) laser diffuser). See section 4.3 for more information on the colour coding of these connectors. The five connectors should be hidden out of sight, usually underneath or down the side of one of the front seats in the vehicle.

- a. Installing the in-car cradle
 - i. Take the main Origin b2 unit and hold it in different positions around the dash of the car. It is recommended that the unit be installed on the front of

or on top of the dashboard.

- ii. If required, affix the mounting flap to the rear of the in-car cradle using the two allen screws and tighten with the allen key. If the Origin b2 unit is to be located on the top of the dash, the mounting flap should be adjusted to be at right angles to the in-car cradle or adjusted to suit the angle of your dashboard; if the Origin b2 is to be located on the front of the dashboard the mounting flap should be folded up against the rear of the in-car cradle, or adjusted to suit the angle of the front of the dashboard.
- iii. Peel off the protective plastic coating on one side of the adhesive pad (3) and carefully affix to the rear of the mounting flap; ensure that you do not touch the adhesive as this will weaken it.
- iv. The desired position on the dashboard should be wiped with the supplied solvent wipe (2). After the dashboard has THOROUGHLY dried, peel off the remaining protective plastic coating on the adhesive pad (3) now affixed to the mounting flap and carefully place the in-car cradle/mounting flap on the dashboard. You should ensure that this is located in the correct position at the first attempt, as the adhesive will be weakened if the in-car cradle/mounting flap is pulled off the dashboard and re-positioned.

NOTE: the adhesive will take about twelve hours to properly dry.

NOTE: because of the strong adhesive on the adhesive pad, extreme care should be taken in the event that the in-car cradle/mounting flap are removed from your vehicle, especially if they are located on wood or leather dashboards. You should consult your dealer for advice.

NOTE: the in-car cradle may be mounted to the front of the dash WITHOUT the mounting flap. In this instance, the adhesive pad should be cut down to the size and shape of the rear of the in-car cradle.

b. Dropping the Origin b2 into the in-car cradle

The Origin b2 unit should be held between thumb and first and/or second finger and held above the in-car cradle; it should then be moved downwards and slid onto the in-car cradle so the two halves of the mobile phone-type connector mate SQUARELY and firmly together. If the connection is not square the Origin b2 unit will not function properly. Small magnets located in the underside of the Origin b2 unit and in the in-car cradle help keep the two items located together.

You should place your thumb underneath the in-car cradle and your first and/or second finger on the top of the Origin b2 casing and gently squeeze together to ensure a good connection between the two parts.

c. Removing the Origin b2 from the in-car cradle

You may want to remove the Origin b2 from your vehicle for security reasons, or to take it into your house/office for database updates.

To do this, the Origin b2 unit should be held between thumb and first and/or second finger and lifted gently upwards, sliding up the in-car cradle.

d. Connecting the antenna, laser detector module and power lead

Locate the Cable Management System cable from the in-car cradle down the front/side of dash to the driver side or passenger side footwell of the vehicle. It

may be possible to hide the cable behind the vehicle trim.

The antenna plug, the power lead plug and the laser detector module plug should be connected to the Cable Management System connectors and then hidden out of sight underneath or to the side of the driver's seat or front passenger's seat

Antenna

Position the antenna on the rear parcel shelf or front dash of the vehicle (Note: only locate the antenna on the front dash of the vehicle if the vehicle is NOT equipped with a climate comfort windscreen or a heated front windscreen. See Section 5.5 for more details). The antenna must have a clear view of the sky, with the black plastic side facing upwards.

Hide the antenna cable down the side of the rear seats/under the door rubbers/under the carpet mats so it meets the antenna connector in the Cable Management System connectors under one of the front seats of the vehicle. Firmly plug the antenna plug into the antenna connector (colour coded white) of the Cable Management System.

Power Lead

The cigarette lighter power supply plug should then be connected to the vehicle's cigarette lighter (note that some vehicles require that the vehicle ignition be switched on for the cigarette lighter to operate).

Hide the power cable down the side of the dash/under the carpet mats so it meets the power connector in the Cable Management System connectors under one of the front seats of the vehicle. Firmly plug the power lead plug into the power connector (colour coded red) of the Cable Management System.

Laser detector module



The laser detector module should be located on the windscreen of the vehicle, at the base of the windscreen (in the centre or to the left or right of the screen) or at the top of the windscreen (in the centre, behind the rear view mirror, or to the top left or right of the screen).

The forward facing part of the module has three small, rounded, domed sensors. The module should have a clear view of the road ahead (note: do not hide it behind the windscreen wipers).

There is only one (domed, rounded) sensor on the rear of the module; ideally, this should have a line of sight through the vehicle and through the rear screen

(although this is not essential, as relatively few vehicles are targeted by laser guns from the rear).

The supplied suction pad should be placed onto the desired position on the windscreen; the supplied metal bracket should be slid onto the laser detector module and the metal bracket located on the windscreen-mounted suction pad and slid into the locked position.

Note: the metal bracket should be gently bent so the laser detector module sits on the suction pad totally vertically

Hide the cable from the laser detector module in the recess/channel along the base or top of the windscreen, down the side of the dash/under the carpet mats so it meets the connectors of the Cable Management System under one of the front seats of the vehicle. Firmly plug the laser detector module plug into the laser detector connector (colour coded blue) of the Cable Management System.

NOTE: if a laser alert is received when you are driving, you have a limited time to slow down before a speed reading is obtained on your vehicle by the police operative using the laser gun. You should therefore ensure you react very quickly on receiving such a warning.

Once the connectors have been connected and the Cable Management System has been tidied under/alongside one of the front passenger seats, the Origin b2 is ready for use.

NOTE: a professional installation service is available, whereby a qualified auto engineer will visit your home or office and hard wire the Origin b2 straight into the vehicle's electrical system and install the relevant Origin b2 components into the vehicle. Contact Origin Technologies for more details of this service.

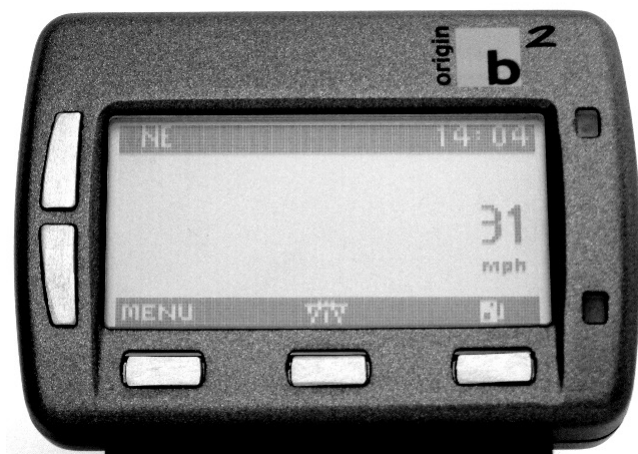
5.7 Turning the power on and start-up procedure

Press Button B1 to power the unit. Note that some vehicles will require the ignition to be switched on for power to be supplied to the Origin b2 unit via the cigarette lighter.

When the unit is powered up, the first screen to show contains the Origin b2 logo; the second and third screens show a summary of the settings of the unit.

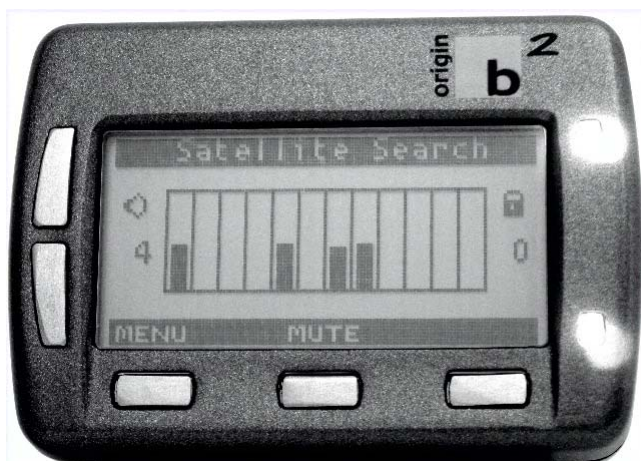
The fourth screen shows the subscription status of the particular unit.

The fifth screen will be a satellite search status screen, utilizing a bar graph type device and showing the number of satellites the unit can see (the figure to the left of the bar graph) and the number of satellites the unit is locked onto (the figure to the right of the bar graph). See Section 5.8 below for a visual of this display.



Once the unit has achieved satellite lock, it will move onto the passive (non alert) screen, shown above.

5.8 Satellite lock

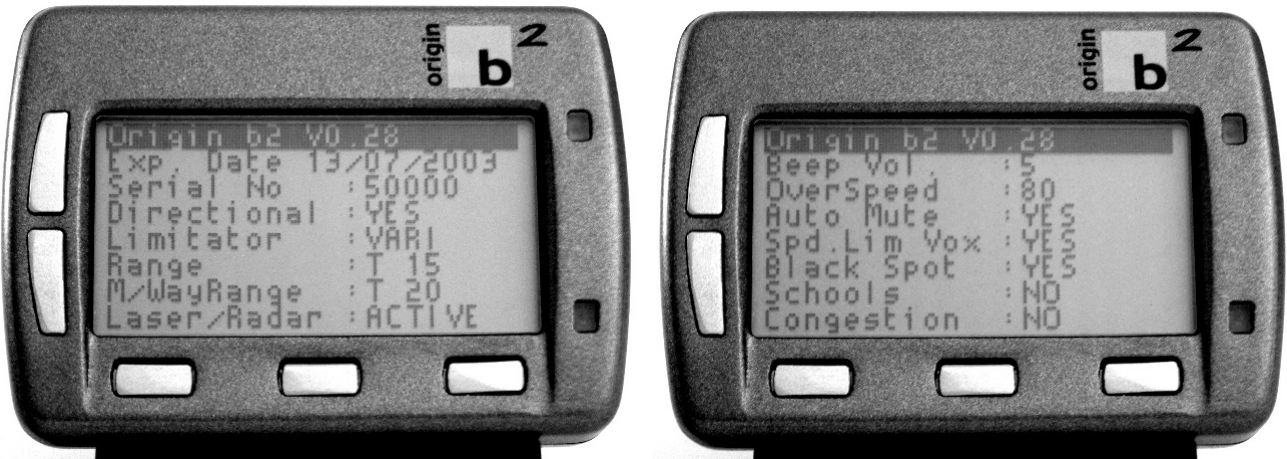


When the Origin b2 is searching for satellite lock, and when satellite lock is lost, the Satellite Search screen will appear. Both red LEDs, L1 and L2, will light up; a double beep will sound every twenty seconds. This may be muted by pressing the button B4, labelled "Mute". This mute feature will NOT be enabled next time the unit searches for satellite lock.

The Origin b2 may take up to 20 minutes to achieve satellite lock for the first time. Once in everyday use, it may take up to five minutes to achieve satellite lock if the unit has been switched off for more than 72 hours but only 2 minutes if the unit has been left switched off for under this time. The length of time taken to achieve satellite lock will depend upon atmospheric conditions and your location.

NOTE: satellite lock will be achieved quicker if the vehicle is stationary; if the vehicle is moving when the unit is trying to achieve satellite lock, the satellite lock acquisition time could be longer than 2 minutes. Satellite lock acquisition times will also be extended if the Origin b2 is in a poor geographical location, such as a built-up area, or with high buildings nearby, or with trees overhead. Poor atmospheric conditions and a heavy cloud cover will also negatively affect acquisition times.

5.9 Factory settings



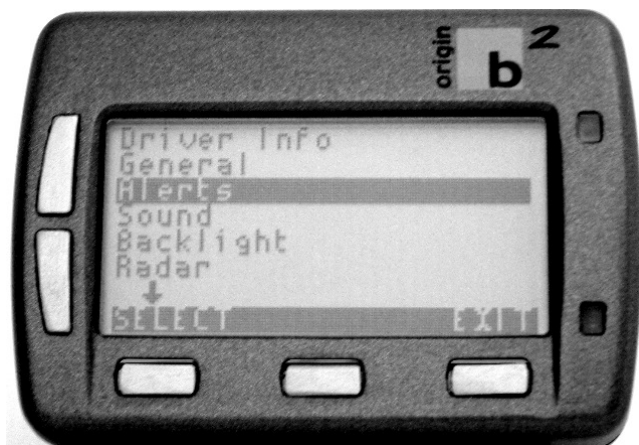
The Origin b2 has been configured with the following factory default settings:

Auto power-off	Yes (15 minutes)
Limitator:	On (Variable mode)
Directional:	On
Range type:	Time - 15 seconds ("T15")
Motorway range:	Time - 20 seconds ("T20")
Blackspot alerts:	On
Schools alerts:	Off
Congestion Charging Cameras:	Off
Beep volume:	Level 6
Voice volume	Level 5
Automute volume	Level 2
Laser volume	Level 4
Radar volume	Level 3
Blackspot/Schools	Level 3
Congestion Charging/Personal Way Point	Level 3
Overspeed warning:	On - 80mph
Automute:	On
Speed limit voice:	On
Calibration:	MPH
Backlight brightness:	Level 3
Backlight brightness during alert:	Level 11

All of these settings may be adjusted via the Menu screens; see Section 6 for further details.

Section 6: **Product Features**

The Origin b2 has many unique features, designed to enhance the user's enjoyment of the product whilst at the same time increasing its' usefulness. This section includes descriptions of every feature, how they work, how to configure them and how to use them.



The Features/Settings are accessed by pressing the "Menu" button, button B3. You will see the screen above. You may scroll up and down through the various sub-headings by pressing buttons B1 and B2; you should then press button B3, "Select", to go to the particular option.

Your Origin b2 has been configured by Origin with our recommended settings (see Section 5.9), but you may alter these to suit your personal preferences at any time. It is well worth while taking a couple of minutes to familiarise yourself with all the product features and the functions of each button.

6.1 Driver Information System

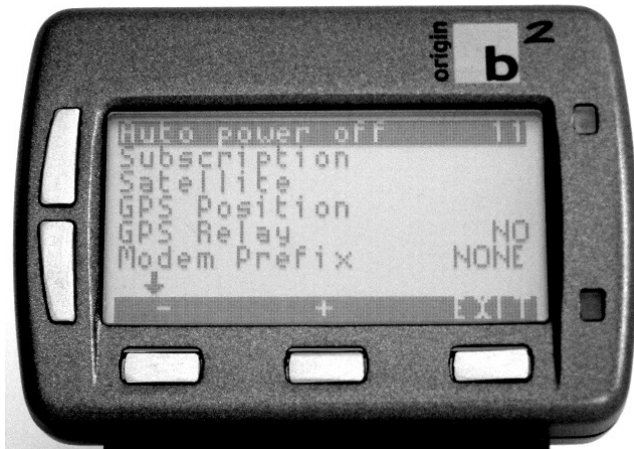


The Driver Information System shows the average journey time, distance and speed. To access "Driver Info":

- i. Press Button B3, labeled "Menu"
- ii. "Driver Info" will be highlighted; press Button B3, labelled "Select"
- iii. "Reset all" will be highlighted; press Button B3, labelled "Reset", to reset all the counters to 0
- iv. Press Button B5, labelled "Exit" to leave the Driver Info Menu and press B5

again to revert to the non alert screen or satellite search screen

6.2 "General" Menu



Auto Power Off

This feature shuts down the Origin b2 if the vehicle speed has not moved and the settings on the unit have not been adjusted for a user definable period of time; the factory default setting is Auto Power Off in 15 minutes.

To switch this feature off or to adjust the time after which the units shuts down:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "General"; press Button B3, labelled "Select"
- iii. "Auto Power Off" will be highlighted, with "15" showing at the right hand side of the display. "15" indicates that the Auto Power Off will occur in 15 minutes
- iv. Press Button B3, labelled "-" to decrease the time taken for Auto Power Off to occur down to 1 minute. The setting after 1 minute is Off ie Auto Power Off is inactive
- v. Press Button B4, labeled "+" to increase the time taken for Auto Power Off to occur, up to 60 minutes. The setting after 60 is Off ie Auto Power Off is inactive
- vi. Press Button B5, labelled "Exit" to leave the "General" Menu and press B5 again to revert to the non alert screen or satellite search screen
- vii. As an alternative to vi. above, you may toggle up and down the other "General" menu items by pressing Buttons B1 and B2

Subscription

This screen shows the current subscription status of your Origin b2 unit. To access this screen:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "General"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Subscription" press Button B3, labeled "Select".
- iv. The Subscription screen may then be viewed. Press Button B5 to exit.

Satellite Search Status

This screen shows the current satellite search status of your Origin b2 unit. This screen will be displayed when the unit has just been started up, and is searching for satellite lock.

It is possible to view the satellite status at any time. To do this:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "General"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Satellite" press Button B3, labelled "Select".
- iv. The Satellite search bar graph may then be viewed. The figure to the left of the bar graph represents the number of satellites in view of the Origin b2 unit and the figure to the right of the bar graph represents the number of satellites the unit is locked onto.
- v. Press Button B5 to exit.

GPS Position

It is possible to view the exact GPS coordinates of your current position; this may be useful if you need to pass on your exact coordinates to a breakdown service, for example. To display this information:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "General"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "GPS Position" press Button B3, labelled "Select".
- iv. Your GPS position may then be viewed. This will be displayed as La (Latitude) and Lo (Longitude). Your current compass bearing will also be displayed as number up to 360 degrees
- v. Press Button B5 to exit.

GPS Relay

It is possible to take an NMEA output from the integral GPS receiver within the Origin b2 in order to feed a PDA (Personal Digital Assistant); once navigation software is loaded onto the PDA, an inexpensive satellite navigation system will be achieved without recourse to purchasing a separate GPS receiver and GPS antenna to work with the PDA.

An optional cable must be purchased from Origin Technologies to achieve this; the cable is the same as the Cable Management System cable, except an extra (serial port) connector has been added to which the PDA will be connected.

This cable will be available in the second half of 2003.

To activate the GPS relay:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "General"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "GPS Relay". "No" will show at the right hand side of the display, indicating that the system is inactive.
- iv. Press Button B4, labeled "Yes", to activate the GPS relay.
- v. Press Button B3, labeled "NO" to deactivate the GPS relay
- vi. Press Button B5 to exit.

Modem Prefix

When the optional modem is purchased from Origin Technologies, it is possible to add a one digit prefix to the 0845 Local Call number automatically dialled by the Origin b2 when connecting to the Origin server. To do this:

- i. Press Button B3, labelled Menu
- ii. Press Button B2 and toggle down to the heading "General"
- iii. Scroll down until the sub heading "Modem Prefix" is highlighted. The factory default setting of "None" is shown at the right hand side of the display
- vi. Use Button B3 (labelled "-") and Button B4 (labelled "+") to scroll up through the numbers 0 to 9. If no prefix is required, scroll through the numbers 0 to 9 until "None" is displayed.
- vii. When the required number is reached, press Button B5 to exit

NOTE: The factory default setting is "None"

Time Adjust

It is possible to set the time displayed on the Origin b2 to cater for different time zones, and for the one hour time difference in the UK between Greenwich Mean Time (GMT) and British Summer Time (BST). To do this:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "General"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Time Adjust". "+0" (correct for GMT) or "+1" (correct for BST) will appear at the right hand side of the display
- iv. Press Button B4, labeled "+", to increase the time difference from GMT.
- v. Press Button B3, labeled "-" to decrease the time difference from GMT.
- vi. Press Button B5 to exit.

Clock Display

It is possible to remove the clock displayed on the non alert screen. To do this:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "General"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Clock Display".
- iv. Press Button B4, labeled "Yes", to display the clock
- v. Press Button B3, labeled "No" to remove the clock
- vi. Press Button B5 to exit.

The factory default setting is "Yes" i.e. the clock will be displayed.

Calibration

It is possible to switch the speed display from the factory setting of MPH to KPH. To do this:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "General"; press Button B3, labeled "Select"
- iii. Press Button B2 to toggle down to "Calibration".
- iv. Press Button B4, labeled "KPH", to display the vehicle speed reading in KPH
- v. Press Button B3, labeled "MPH" to display the vehicle speed reading in MPH
- vi. Press Button B5 to exit.

6.3 Alerts Menu



Limitator

Origin Technologies has two granted patents on the Limitator; with this feature activated, a full alert for a fixed installation speed camera will not be provided if you are travelling under the prevailing speed limit.

If you approach a fixed installation speed camera and you are travelling OVER the posted speed limit, you will receive the audible and visual alerts in the usual way. Once your speed is reduced to below the speed limit, the speed limit symbol on the display will flash; if the Automute feature is activated (see Section 6.4.2) you will only receive audible alerts to the pre-selected Automute volume.

If you approach a fixed installation speed camera and you are travelling UNDER the posted speed limit, the unit will sound a double beep alert and the LEDs will flash once. If you maintain a speed under the speed limit, no more alerts will sound and the LEDs will not flash again. The usual speed camera information will be displayed on the LCD display, but the speed limit symbol will flash. If your speed increases and goes over the speed limit, the regular visual and audible alerts will then be provided.

The Limitator feature also has a Variable ("Vari") mode (this is the factory default setting for the Limitator feature): with the Vari mode activated, the Limitator feature will automatically be suppressed when a fixed installation speed camera is located in a variable speed limit zone (eg on the western side of the M25 motorway), so the Origin b2 will provide full alerts irrespective of your speed. This setting is useful, as the speed limit display on the Origin b2 will show the usual speed limit on such roads, but the temporary limits are often lower than this and these temporary lower limits are linked to the trigger speeds of the speed cameras.

NOTE: full alerts will be provided for schools and accident blackspot zones, irrespective of the Limitator setting and irrespective of the vehicle speed.

The factory default setting for this feature is active, in the Vari mode. To alter the setting:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Alerts"; press Button B3, labelled "Select"
- iii. "Limitator" will be highlighted.

- iv. Press Button B3, labelled "No" to deactivate the feature, so normal warnings are provided for all fixed installation speed cameras, irrespective of the vehicle speed
- v. Press Button B4, labeled "Yes" or "Vari", to switch between the variable mode and the normal Liminator mode (normal mode is labelled "Yes"). Either "Vari" or "Yes" will be displayed on the right hand side of the LCD display, adjacent to the sub heading "Limitator".
- vi. Press Button B5 to exit.

Directional



Origin Technologies has two granted patents on the Directional feature; this feature suppresses the alert for a fixed installation speed camera when it is not in your direction of travel. For example, if you are travelling south on a particular road and there is a speed camera positioned to detect vehicles only on the northbound carriageway, the Origin b2 unit will calculate that an alert is not necessary. You may notice, however, that a Directional symbol appears on the left of the LCD display (see image above). This is to let the user know that the camera is included in the database but is not relevant to them as they are going in the opposite direction. NOTE: if the user was travelling south and the speed trap was positioned on the southbound carriageway, the Origin b2 would provide the usual alerts. Furthermore, if the speed trap is situated on the central reservation and is reversible (ie it can be rotated to capture traffic heading in either direction) then the Origin b2 will provide the usual alerts irrespective of whether the Directional feature is activated or not. The letters "REV" will appear after the road number.

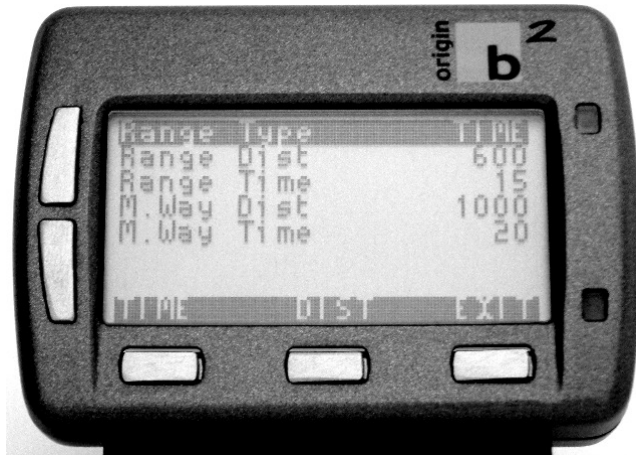
Because this is such a useful and revolutionary feature, the factory default setting is ON. You can access this setting to deactivate it as follows:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Alerts"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Directional".
- iv. Press Button B3, labelled "No", to deactivate the feature.
- v. Press Button B4, labelled "Yes", to activate the feature
- vi. Press Button B5 to exit.

NOTE: we strongly recommend that you use your Origin b2 with the Directional feature activated. The unit will provide a better alert for speed traps which are relevant to you because it will give priority to such traps. If the feature is switched off, then the Origin b2 will give priority, and provide an alert for, the NEAREST camera, which may be on an adjacent road and as such not a threat.

Range

You can choose whether the Origin b2 provides alerts at a certain time before the speed camera/blackspot/Congestion Charging Camera or a certain distance before it.



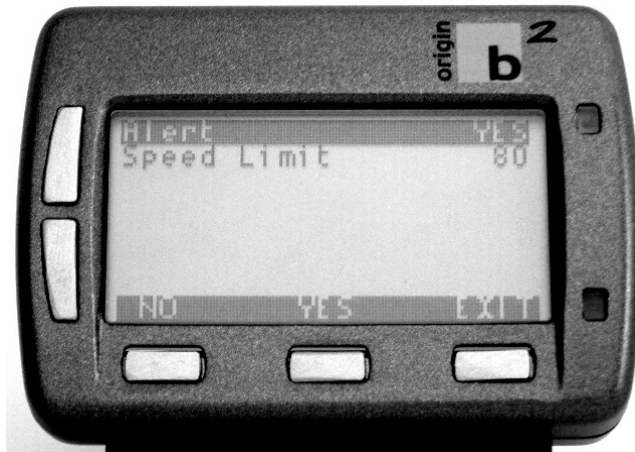
The factory default setting is that alerts are provided on a time basis, 15 seconds before the fixed installation speed trap/blackspot/Congestion Charging Camera is reached. If you would prefer to receive the alert at a certain distance in advance, the recommended distance is 600m.

When the Motorway mode is selected, the time/distance may be increased. The recommended setting is 20 seconds or 1000m, to reflect the higher speeds associated with motorway driving.

To adjust the range settings:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Alerts"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Range". The current (non motorway) setting will be displayed on the right hand side of the LCD display: "T15" indicates that alerts will be provided on a time ("T") basis, 15 seconds prior to the speed trap, etc. "D600" indicates that alerts will be provided on a distance ("D") basis, 600m prior to the speed trap, etc
- iv. Press Button B3, labeled "Select"
- v. "Range Type" will be highlighted; you can switch between "Time" and "Dist" by pressing buttons B3 and B4.
- vi. Press Button B2 to toggle down to "Range Dist"; press Button B3, labelled "-" to decrease the range and Button B4, labelled "+" to increase the range
- vii. Press Button B2 to toggle down to "Range Time"; press Button B3, labelled "-" to decrease the range time and Button B4, labelled "+" to increase the range time
- viii. Press Button B2 to toggle down to "Mway Dist" and "Mway Time" and decrease/increase the settings by pressing Buttons B3 and B4
- ix. Press Button B5 to exit.

Over Speed Warning



You may pre-select a speed (of between 20mph and 100mph) at which the Origin b2 will provide you with a warning; once the pre-selected speed is reached, a double beep will sound and the pre-selected speed will appear on the display in the form of a speed limit sign.

Please note that this is a PERSONAL over speed warning, and is not necessarily providing a warning that the prevailing legal speed limit is being exceeded.

The factory default setting is Over Speed Warning ON, limit 80mph.

To deactivate or adjust this feature:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Alerts"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Over Speed Warn".
- iv. Press Button B3, labelled "Select"
- v. Press Buttons B1 and B2 to toggle between the menu items; when "Alert" is highlighted, press Buttons B3 ("No") and B4 ("Yes") to deactivate/activate the feature
- vi. Press Buttons B1 and B2 to toggle down to and highlight "Speed Limit".
- vii. When "Speed Limit" is highlighted, press Button B3 to decrease the speed at which an alert will be provided and Button B4 to increase the speed at which an alert will be provided.
- viii. Press Button B5 to exit.

Black Spot Warnings

The Origin b2 will provide alerts if the user is travelling on a road which, according to government statistics, has a higher than average incidence of accidents. Whilst travelling on a black spot road, a reminder beep warning will be provided every 20 seconds and the LCD display will show a Black Spot warning, together with the prevailing speed limit for that section of the road and your vehicle speed.

The warning may be cancelled by pressing Button B3 (labelled "X") or the audible alert muted by pressing Button B4 (labelled "Mute").

If there is a fixed installation speed camera or a mobile laser trap in the Black Spot zone, warnings for these hazards will take priority over the Black Spot warning.

To activate/deactivate the feature:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Alerts"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Black Spot".
- iv. Press Button B3, labelled "No", to deactivate the feature
- v. Press Button B4, labelled "Yes", to activate the feature
- vi. Press Button B5 to exit.

Congestion Charging Camera Warnings (Feature available automatically with a download from mid July 2003)

The Origin b2 is able to provide warnings when the user is about to enter a Congestion Charging zone; the purpose of the alert is not so the user may evade paying the Congestion Charge, but so that he may avoid entering the zone if he does not want to do so.

The alerts for the CC cameras are time sensitive ie alerts will only sound during the hours when the charge is levied. In the London charging zone, the times are currently 0700 until 1830, Monday – Friday.

To activate/deactivate the feature:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Alerts"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Congestion".
- iv. Press Button B3, labelled "No", to deactivate the feature
- v. Press Button B4, labelled "Yes", to activate the feature
- vi. Press Button B5 to exit.

Schools Warnings (Feature available automatically with a download from mid July 2003)

The Origin b2 is able to provide warnings when the user is in the vicinity (200m radius) of a primary or secondary school; users should take special care when the unit sounds an alert, as it indicates that there could be children walking about.

The schools alerts are time sensitive ie alerts will only sound when it is likely that children are around. With the feature activated, alerts will occur between 0830 – 0915, 1230 – 1400 and 1515 – 1615, Monday to Friday. No alerts will sound during August.

To activate/deactivate the feature:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Alerts"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Schools".
- iv. Press Button B3, labelled "No", to deactivate the feature
- v. Press Button B4, labelled "Yes", to activate the feature
- vi. Press Button B5 to exit.

6.4 Sounds Menu

Volume



It is possible to individually adjust volume of the different alert types, including beep alerts, voice alerts, muted alerts, laser alerts, radar alerts and black spot/school/Congestion Camera alerts.

To do this:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Sound"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Volume"; press Button B3, labelled "Select"
- iv. Press Button B2 to toggle down to alert type
- v. Press Button B3, labelled "-", to decrease the volume
- vi. Press Button B4, labelled "+", to increase the volume
- vii. Press Button B5 to exit.

When the unit is in satellite search mode or in non alert mode, Button B1 will increase the volume of the beep alerts and Button B2 will decrease the volume of the beep alerts.

When the unit is sounding an alert, Buttons B1 and B2 will increase/decrease the volume of the alert type sounding

Automute



With the Auto Mute feature enabled, full audible beep alerts will not be provided; on a speed camera, for example, the unit will give four normal volume beeps (ie at the pre selected volume level) when the camera is first alerted to, then three beeps when at approximately half distance, and then two beeps when at approximately 100m. In between these beeps, Auto Muted beeps will be provided (ie at the pre selected Auto Mute volume); the level of Auto Muted beeps will generally be quieter than normal volume beeps, and may be turned off altogether.

The factory default setting is Auto Mute: ON

To adjust the level of Auto Muted beeps, follow the instructions for volume adjustment (above). To receive no audible beep alerts between the full beeps, the Auto Mute volume should be set at zero.

To turn off the Auto Mute feature:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Sounds"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Auto Mute".
- iv. Press Button B3, labelled "No", to deactivate the feature
- v. Press Button B4, labelled "Yes", to activate the feature
- vi. Press Button B5 to exit.

NOTE: individual alerts may be fully muted by pressing Button B4 (labelled "MUTE") as the alert is sounding. Individual alerts may be cancelled by pressing Button B3 (labelled "X") as the alert is sounding

Speed Limit Voice

When an alert is sounded, the type of hazard being approached will be described by an audible voice eg Gatso, Truvelo, Specs, DS2, Blackspot, etc. When the alert is for a fixed installation speed camera, the voice will also detail the prevailing speed limit. To activate/deactivate this feature:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Sounds"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Spd Lmt Voice".
- iv. Press Button B3, labelled "No", to deactivate the feature

- v. Press Button B4, labelled "Yes", to activate the feature
- vi. Press Button B5 to exit.

6.5 Backlight Menu

Alert Brightness



When an alert is sounded by the Origin b2, it is possible to make the LCD display become brighter; this has two benefits: firstly, it helps to ensure the driver notices that an alert is in progress in the event that the volume is turned down; and secondly, the information on the display is more readable.

The factory default setting during an alert is level 11, which is the maximum brightness level. To adjust this:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Backlight"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Alert Bright".
- iv. Press Button B3, labelled "-", to decrease the alert brightness
- v. Press Button B4, labelled "+", to increase the alert brightness
- vi. Press Button B5 to exit.

When one of the buttons is pressed by the user, for example to adjust the features or volume of the unit, the screen will light up to the alert level until a couple of seconds after a button has been touched.

Normal Brightness

The backlight level of the Origin b2 in start up mode, satellite search mode and non alert mode is also adjustable; the factory default setting is level 3 (the maximum level is 11) ie the backlight is on all the time, but the level is quite low. This means that the screen is readable at all times, including during darkness, but is not too bright so as to be distracting.

To adjust the normal brightness level:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Backlight"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Normal Bright".
- iv. Press Button B3, labelled "-", to decrease the normal brightness
- v. Press Button B4, labelled "+", to increase the normal brightness

- vi. Press Button B5 to exit.

Contrast

It is possible to adjust the contrast of the LCD display, although the factory default setting is the recommended level. To do this:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Backlight"; press Button B3, labelled "Select"
- iii. Press Button B2 to toggle down to "Contrast".
- iv. Press Button B3, labelled "-", to decrease the contrast
- v. Press Button B4, labelled "+", to increase the contrast
- vi. Press Button B5 to exit.

6.6 Radar Menu

An optional radar detector module will be available for sale during the second half of 2003; the hardware and cabling of your Origin b2 is fully ready to add the module, but a simple software update will be required; this will be performed by updating the unit via the internet or via the (optional) modem in the usual way.

Although radar detectors do provide some false alarms in everyday use, Origin Technologies has attempted to cut these down to a minimum with Smart Radar software which integrates and utilizes the GPS hardware/software.

The way in which Origin's radar detector is configured and the way it is integrated with the GPS element of the device is unique.

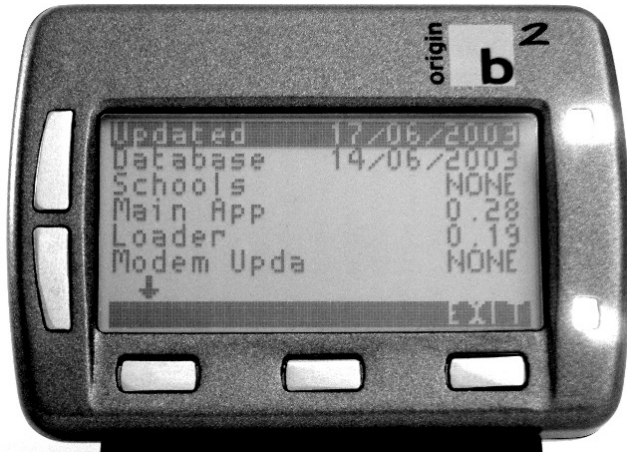
Please contact Origin Technologies if you wish to purchase a radar detector when they become available during 2003. The price will be £99.95.

Full instructions for installation and use will be provided with the radar detector module.

6.7 Demo

You can see the unit working and giving various alerts by going to the demo menu, which is found by scrolling down the General menu. Press "playback" to see the demonstration alerts.

6.8 Versions Listing



You can see what versions of software you are running on your Origin b2 together with the date you last downloaded and the date on which Origin last updated the master speed camera database (held on the Origin server) by clicking onto Versions. This may be useful if you require technical support from Origin Technologies.

To view Versions:

- i. Press Button B3, labelled "Menu"
- ii. Press Button B2 to toggle down to "Versions"; press Button B3, labelled "Select"

You may scroll up and down the different elements on this menu by pressing Buttons B1 and B2, and clear individual components by pressing Button B3. You will then need to perform a download to reinstall the software you have cleared. This will be done automatically with the download.

To exit the Versions screen, press Button B5.

NOTE: the latest software/firmware versions will automatically be downloaded to your Origin b2 when you connect to the server via the internet or the (optional) modem. You do not need to reset the listings in the Versions menu prior to conducting a download.

6.9 Miscellaneous

Power on/off button

Press and hold Button B1, the top button alongside the LCD display. After a short while, the screen will show the message "...Power off..." and the Origin b2 will shut down.

To start up the unit when the power is off, press Button B1 again, and the unit will start up.

LCD display

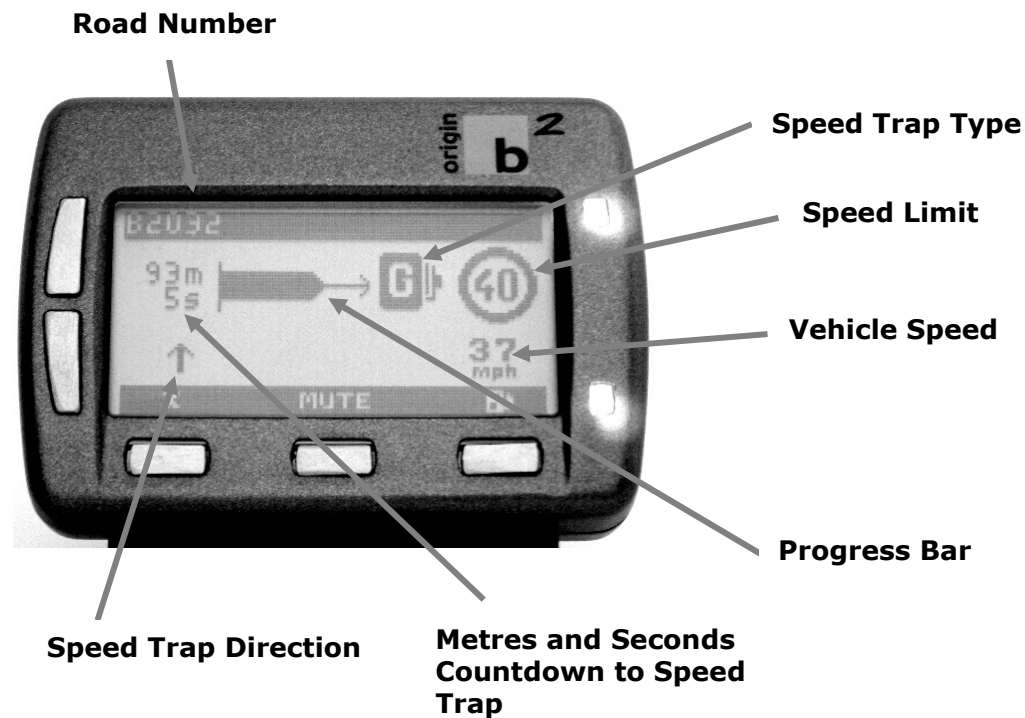
The LCD display provides the Origin b2 user with several pieces of useful information:



When in non-alert mode, the screen will display the following information:

- Direction of vehicle travel i.e. NE see *note i*
- Clock
- Vehicle speed See *note ii*

When the Origin b2 is in range of a speed trap, the LCD screen display will show the following information:



Notes:

- The compass reading will show N (North) when the unit is powered up and achieves satellite lock; the correct bearing will be shown when the vehicle speed reaches 3mph. This is because the GPS receiver in the Origin b2

cannot determine the direction of travel accurately when the speed of the vehicle is very low.

- ii. although the speed displayed is very accurate, there is a time lag of up to one second in the display of vehicle speed whilst accelerating and decelerating.
- iii. The Origin b2 will display the usual speed limit if the speed limit on a stretch of road is temporarily reduced - unless there are long term road works present, a temporary camera has been installed (which has been included on the Origin master database and your Origin b2 provides an alert for the temporary camera) - in which case the temporarily reduced speed limit will have been included in the database.
- iv. If the particular stretch of road is subject to variable speed limits (eg M25 motorway) then the letters 'VARI' will appear after the road number (M25 VARI). If the speed trap is located on the central reservation and is reversible, then the letters 'REV' will appear after the road number (eg A243 REV)
- iv. When the display reaches 0m/0sec (ie the user is adjacent to the speed trap) then the alert will cease and the Origin b2 will return to normal (ie non alert) mode.

Camera Button (Button B5)

When the Origin b2 is in non alert mode, Button B5 is labelled with a Camera logo. When this is pressed, a screen is shown asking you to "Confirm New Location".

There are two types of location which may be entered: potential new camera location (Button B3) or user location (Button B4).

- i. Potential new camera button

Button B3, to store the coordinates of a potential new fixed installation speed camera site, should be pressed when you believe you have seen a new Gatso/Truvelo/SPECS/DS2 installation and your Origin b2 unit does not provide you with an alert.

You should only press this button and store a potential new camera button when you are sure there is a new camera being installed/recently installed; the camera database of Origin Technologies has been collated since 2000 and is the best available in any GPS based speed trap warning system. It is the best in terms of completeness and lack of false alarms from spurious/non existent or removed sites. Every single camera location on our master database has been visited, verified and geo-coded by a member of our staff prior to inclusion on our database, and every removed camera location is also visited prior to removal from the database.

The full time jobs of our camera spotting team is to travel the length and breadth of the UK in search of new camera sites. Since the predecessor to the Origin b2, the Origin blue i, went on sale in 2001, we have had thousands of potential new camera sites reported to us, and the vast majority of these have been spurious; it takes time to check these sites and the huge volume of spurious sites reported to us makes our reaction time slower when there is a genuine new camera site which we need to visit, verify and geo-code for inclusion on our master speed

camera database. This delay works to the disadvantage of our users, and it is up to you to help us in order to help yourselves.

When you press the camera button (B5) and then Button B3 to store a potential new camera site, the coordinates of this potential new site will be stored in an internal database within your Origin b2; when you next connect to the Origin server, via the internet or the (optional) modem, the stored coordinates will be uploaded to us for checking. Your Origin b2 will not provide an alert for the new camera until it has been validated by Origin Technologies, added to the master database and you have updated your unit again. Once the potential new camera site has been uploaded to Origin, the potential new site will be automatically deleted from your unit.

ii. Deleted camera location

When you receive an alert for a Gatso/Truvelo/SPECS or DS2 fixed installation camera and you believe the camera has been removed, you should press Button B5; a screen will ask you if you are sure you want to store the location; once you have confirmed that you do, the camera location will be stored within the internal memory of your Origin b2 as a potential deleted camera location.

When you next connect your unit to the Origin server, via the internet or the (optional) modem, the location of the potentially deleted site will be uploaded to Origin Technologies for checking. Once we have visited and checked the site, the camera will be removed from the master database in the event that it has been removed.

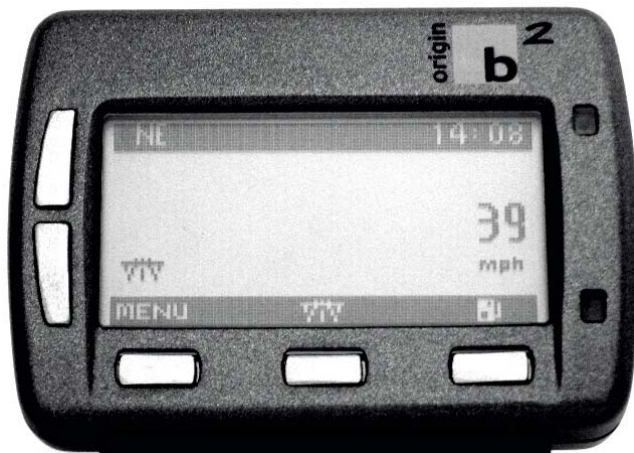
Your Origin b2 will continue to provide alerts at the camera site until Origin Technologies has removed it from the master database and you have updated your Origin b2 after it has been removed from the database.

iii. User location

When the Origin b2 is in non alert mode and Button B5 (the camera button) is pressed followed by Button B4 (to confirm the storage action), a user location is stored; this is a personal waypoint. The user location is specific to your unit only and will not be uploaded to Origin Technologies when you connect your unit to the Origin server via the internet or the (optional) modem.

When you next pass that location, you will receive an audible and visual alert for the waypoint. You may mute the warning by pressing Button B4 or delete it altogether by pressing Button B3.

Motorway mode (Button B4)



Some A and B roads with speed traps on them are located very close to the motorway network. If the Origin b2 user is travelling on the motorway network, alerts for these speed traps will be irrelevant (in effect they are false alarms).

It is possible for these alerts to be filtered out, so no alerts will sound for any cameras which are located off the motorway network. To activate this facility, simply press button B4, with a Motorway symbol above it. The motorway symbol will appear on the bottom left of the LCD display of the Origin b2, as shown in the image above.

With this feature activated, if the Origin b2 comes within range of any speed camera located off the motorway network, the Directional symbol will appear at the top left of the LCD display. (This symbol is shown in the Directional section in Section 6.3)

To cancel the feature, press button B4 again (this button is labeled with a motorway symbol). The motorway symbol will disappear from the LCD display.

The Motorway feature should be deactivated as soon as you leave the motorway to travel on A and B roads. This is important, as no alerts will be provided for any camera situated off the motorway network. In order to remind you that the Motorway feature is enabled, the Origin b2 will beep three times and the motorway symbol will flash on and off on the LCD display whenever the vehicle speed drops below 25mph. The three beeps will occur every 20 seconds whilst the vehicle speed is below 25mph.

Alerts for SPECS average speed cameras

SPECS cameras operate in a different way from other fixed installation speed traps; a series of cameras (the minimum number being two) are located at a known distance apart and every camera in the series will store the registration number of every passing vehicle together with the precise time that the camera was passed. The average speed of every vehicle is then calculated between the SPECS camera locations, and speeding tickets will be issued to the registered keeper of any vehicle travelling in excess of a pre-determined speed.

The alerts provided by the Origin b2 are consequently slightly different for SPECS cameras than for other speed trap types:

- i. The warning for the first SPECS camera in the series will be provided in the normal speed camera warning fashion. A number will appear after the road number, for example 1/4; this denotes that the camera is the first (1/4) in a series of four (1/4) SPECS installations in the series. This will be repeated for every SPECS camera eg 2/4, 3/4, and 4/4.
- ii. After the user has travelled beyond the first SPECS camera location, the words "SPECS AV SPEED ZONE" will remain on the screen and the unit will beep a reminder every 20 seconds. The LEDs will light up red; if the Limitator is operational, the LEDs will not light up if the user is travelling under the prevailing speed limit, although the reminder message will still be displayed on the LCD display.
- iii. When the Origin b2 enters into range of the second SPECS camera location, the reminder alerts will be replaced by the usual SPECS speed trap warning. After this location has been passed, the Origin b2 will again provide reminder alerts. This scenario will be repeated until the final SPECS camera in the series is approached.

When the location being approached is the final camera in the series of SPECS cameras, the visual and voice alerts provided will be "SPECS END." After this final camera in the series has been passed, the Origin b2 will revert to normal (ie non alert) mode. If the number of cameras in a particular SPECS installation only numbers two, then the warning provided at the second camera will be "SPECS END".

- iv. If the user turns off the road where the SPECS cameras are located, the alerts will cease after 1 or 2 seconds.
- v. If the user joins a road where SPECS cameras are located at a place other than the beginning of a SPECS zone (for example, half way through the zone, and between cameras) no alerts will be provided until the next camera in the series comes into range. As no camera has been passed at this point, the user's average speed will not be being calculated until after a SPECS camera has been passed.

Section 7: **Caring for your Origin b2**

7.1 General

The Origin blue i is a precision electronic device and care must be taken when handling the unit:

To clean, just dust as you would your dashboard.

Do not clean with a wet or abrasive cloth.

Do not drop the unit or subject it to sudden shocks.

There are no user serviceable parts inside the Origin blue i; if a problem develops please return it to Origin Technologies Limited.

7.2 Product registration

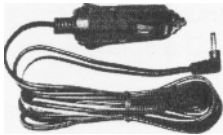
You should register your Origin b2 with Origin Technologies in order to take advantage of the free download (subscription) period. To do this, please look at the "myb2" section of our web site (www.originb2.com), where you can register on line. Alternatively, you may complete the product registration form enclosed in the Origin b2 packaging and return it by post or fax to Origin Technologies Limited.

7.3 Guarantee

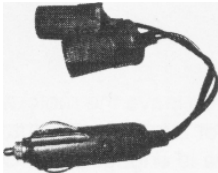
Your Origin b2, its components and accessories are guaranteed for two years from the date of purchase for any defect in manufacture. If you have used your Origin b2 in accordance with the instructions and any problems occur please return the unit to Origin Technologies Limited. We will check the unit and repair or replace it. Your statutory rights are not affected by this guarantee.

Section 8: **Origin b2 Accessories**

Selected accessories are available for your Origin b2 and may be purchased from Origin Technologies direct by telephone or internet or from your dealer.

		
Extra GPS Antenna *	Modem	Extra Power Lead *
£29.95	£39.95	£9.95

		
Extra Car Cradle *	Extra Laser Detector *	Extra Adhesive Pad *
£39.95	£49.95	£1.95


Double Cigarette Lighter Adaptor
£9.95

KEY: * This item is supplied as standard with each Origin b2



Complete Second Car Kit
including Cradle, Antenna, Adhesive Pad, Power Lead, Laser Detector

£99.95

(Price of items if purchased separately: £131.75)

(NOTE: a postage and packing charge is applicable on accessories not ordered at the same time as the main Origin b2 unit)

Section 9: **Contacting Origin Technologies Limited**

Origin Technologies Limited
Unit 4c, The Coda Centre 189 Munster Road
Fulham
London SW6 6AW

Telephone: 020 7381 3000
Fax: 020 7385 8080
Internet: www.origintechnologies.co.uk
Email: enquiries@origintechnologies.co.uk

Section 10:

Terms and Conditions

1. Basis of the sale

1.1. The Seller (which means Origin Technologies Limited (registered in England under number 03976119) the registered office of which is at Unit 4C The Coda Centre, 189 Munster Road, London, SW6 6AW) shall sell and the Buyer (which means the person whose order for the Equipment is accepted by the Seller) shall purchase the Equipment (which means the fixed installation speed trap locator known currently as the 'Origin B2') in accordance with these conditions, which shall govern this contract to the exclusion of any other terms and conditions

1.2. The Seller's employees or agents are not authorised to make any representations concerning the Equipment unless confirmed by the Seller in Writing

2. Specifications

2.1. The Seller reserves the right to make changes in the specification of the Equipment.

3. Price of the Equipment

3.1. The price of the Equipment shall be the price listed in the Seller's published price list current at the date of acceptance of the order which price will be valid for 30 days only, after which time it may be altered by the Seller without giving notice to the Buyer. 3.2. The price is inclusive of any applicable value added tax.

4. Terms of payment

4.1. The Buyer shall pay for the Equipment in full at the time when the Buyer orders the Equipment.

5. Delivery

5.1. Delivery of the Equipment shall be made by the Seller arranging for delivery of the Equipment to the Buyer. The cost of delivery is included within the price charged for the Equipment

5.2. Any dates quoted for delivery of the Equipment are approximate only and the Seller shall not be liable for any delay in delivery of the Equipment however caused. Time for delivery shall not be of the essence of the Contract

6. Risk and property

6.1. Risk of damage to or loss of the Equipment shall pass to the Buyer upon delivery of the Equipment to the Buyer

7. Right of Cancellation

7.1. Where the Buyer is a consumer (that is, a natural person who is acting for purposes which are outside his business) and the purchase of the Equipment by the Buyer constitutes a distance contract then the Buyer has a right under the Consumer Protection (Distance Selling) Regulations 2000 to cancel the Contract.

7.2. If the Buyer wishes to cancel the Contract under the provision of those regulations then:

7.2.1. The Buyer must send notice to the Seller in writing or in another durable medium which indicates the intention of the Buyer to cancel the Contract

7.2.2. The notice should be sent to the Seller at the address at the head of these Conditions or by e-mail to the Seller at the address provided on the Seller's web-site, or by facsimile transmission to the Seller's facsimile number

7.2.3. If the Buyer wishes to cancel the Contract then the Contract must be cancelled before the expiry of the period of seven working days beginning with the day after the day upon which the Buyer receives the Equipment

7.2.4. The Buyer must return the Equipment to the Seller at the Buyer's cost (including the cost of all appropriate postage and packaging).

7.2.5. The Seller shall reimburse the Buyer all sums paid for the purchase of the Equipment, save that if the Equipment is not returned to the Seller at the Buyer's cost, then the Seller shall be entitled to deduct from the amount reimbursed to the Buyer any cost actually incurred by the Seller in recovering the Equipment

8. Update service

8.1. The Seller shall allow the Buyer to subscribe to its update service. The Buyer shall be entitled to subscribe to the update service for a period of six months from the date of purchase of the Equipment at no cost. Thereafter, the Buyer may subscribe to the update service at a cost of £50.00 per annum (subject to clause 8.3) payable annually in advance

8.2. The intention of the update service is to make available to subscribers new and revised information concerning the whereabouts of fixed installation speed traps and to allow downloading via the internet or an optional modem connection to the Equipment of such new, revised and updated information.

8.3. The Seller reserves the right to increase the annual cost of the update service from time to time, and shall give the Buyer not less than 30 days notice of any such increase.

8.4. The Seller reserves the right to terminate the update service for any particular Buyer if it deems it necessary or appropriate for any reason to do so, in which case it shall refund to the Buyer a proportionate part of the most recently paid subscription

8.5. If a Buyer identifies a fixed installation speed trap not at that time recorded in the data held by the Seller and made available to the Equipment, then if the Buyer notifies the Seller of the location of that fixed installation speed trap, the Seller shall take such steps as it considers reasonable to verify the location of that fixed installation speed trap, and shall enter the data relating to it into the database that it maintains, and make that information available to all of its users that subscribe to the update service.

9. Warranties and liability

9.1. Subject to the conditions set out below the Seller warrants that the Equipment will correspond with its specification at the time of delivery and will be free from defects in material and workmanship for a period of 24 months from delivery.

9.2. The above warranty is given by the Seller subject to the following condition:

9.2.1. the Seller shall be under no liability in respect of any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow the Seller's instructions (whether oral or in writing), misuse, tampering with, opening up of, or attempted alteration or attempted repair of the Equipment without the Seller's approval nor for any damage caused by the installation or removal of the Equipment otherwise than in accordance with the Seller's written instructions 9.3. Subject as expressly provided in these Conditions, and except where the Equipment is sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977), all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

9.4. Where the Equipment is sold under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements) Order 1976) the statutory rights of the Buyer are not affected by these Conditions.

9.5. Whilst the Equipment can currently be owned and used legally in the United Kingdom, the Seller gives no warranty that such will continue to be the case. Should the use or possession of the Equipment cease to be legal the Seller shall have no liability to the Buyer in respect thereof, and in particular shall have no liability to the Buyer to refund the whole or any part of the purchase price of the Equipment

9.6. If any claim shall be made by the Buyer under the warranty set out in clause 9.1 the Buyer shall be responsible for the cost of returning the Equipment to the Seller for repair or replacement. The return of the Equipment to the Seller by the Buyer shall be at the risk of the Buyer

9.7. Where any valid claim in respect of the Equipment which is based on any defect in the quality or condition of the Equipment or its failure to meet specification is notified to the Seller in accordance with these Conditions, the Seller shall be entitled to replace the Equipment (or the part in question) free of charge or, at the Seller's sole discretion, refund to the Buyer the price of the Equipment, but the Seller shall have no further liability to the Buyer.

9.8. Except in respect of death or personal injury caused by the Seller's negligence, the Seller shall not be liable to the Buyer by reason of any representation (unless fraudulent), or any implied warranty, condition or other term, or any duty at common law, or under the express terms of the Contract, for any indirect, special or consequential loss or damage (whether for loss of profit or otherwise), costs, expenses or other claims for compensation whatsoever (whether caused by the negligence of the Seller, its employees or agents or otherwise) which arise out of or in connection with the supply of the Equipment or its use or resale by the Buyer, and the entire liability of the Seller under or in connection with the Contract shall not exceed the price of the Equipment, except as expressly provided in these Conditions. In particular, the Seller shall have no responsibility to the Buyer in respect of the following:

9.8.1. The failure of the Equipment to provide an alert for a fixed installation speed trap, or the fact that the location of any fixed installation speed trap was not recorded in the database of fixed installation speed traps held and operated by the Seller and/or has not been downloaded to the Equipment; nor will the Seller be responsible for the failure of the Equipment to alert to mobile speed traps;

9.8.2. Any fine or other penalty or punishment imposed on or any Notice of Intended Prosecution served upon the Buyer in respect of any road traffic offence;

9.8.3. The use or possession of the Equipment in a country or region where the use or possession of devices such as the Equipment is not legal;

9.8.4. The alteration of the method of operation of any, or the introduction of any novel type of fixed installation speed trap such that the Equipment is no longer able to provide an alert for those speed traps

10. General

10.1. If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected.

10.2. The Contract shall be governed by the laws of England, and the Buyer agrees to submit to the non-exclusive jurisdiction of the English courts.