



→ 4.3" TOUCH-SCREEN → EUROPE NAVIGATION →
→ LANE INFO → TURN-BY-TURN → ROUTE LIST →

Becker Traffic Assist Z 107/Z 108/Z 109

 **BECKER**

Operating instructions

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⚠ Safety information

- The unit may only be operated if the traffic situation allows for this and if you are absolutely certain that you yourself, your fellow passengers or other road users will not be put at risk, encumbered or disturbed by this.
- The rules of applicable road traffic acts must be observed at all times. Destinations may only be input when the vehicle is stationary.
- The navigational system is only an aid. The data/details provided may in some cases be incorrect. The driver must always decide whether to follow the details given or not. We accept no liability for the navigational system issuing incorrect details. As a result of traffic routing changes and deviating data, inaccurate or incorrect instructions may be given. Drivers should always pay attention to the actual road signs and traffic control. In particular, the navigational system cannot be used as a means of orientation in cases of poor visibility.
- The unit may only be used for its intended purpose. The volume of the navigational system should be set so that noises outside the vehicle can still be heard.
- The unit should be switched off immediately if faults occur (e.g. development of smoke or smells).
- For safety reasons, the unit may only be opened by a specialist. Please contact your local stockist if you require repairs.

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SAFETY INFORMATION

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- The mains voltages (V) indicated on the mains charger, the car charger adapter and the unit must not be exceeded. Failure to observe this can result in destruction of the unit and the charger as well as explosion of the rechargeable battery.
- Never open the unit or the rechargeable battery. Any modification to the unit is also impermissible and renders the type approval invalid.
- Use only genuine BECKER original accessories. This will ensure that all the relevant regulations are complied with and damage to health and property is avoided. Dispose of defective units and the rechargeable battery according to the applicable legal requirements.
- No warranty is granted in the case of improper use. These safety instructions also apply to genuine BECKER original accessories.

Use

The Traffic Assist is a powerful PND (Personal Navigation Device) for use in vehicles and closed spaces. The unit and the accessories are to be protected against moisture and dirt.



Navigation

Thanks to GPS = Global Positioning System, you no longer need to spend hours searching through road atlases.

Once outside buildings, the receiver antenna integrated in the unit gives you continuous access to navigational possibilities. Depending on reception, you may not be able to use the navigational function inside buildings. When used in vehicles, you may not be able to adequately receive GPS data depending on how the Traffic Assist is installed. In such cases, you will have to connect up an external antenna (does not fall within the scope of supply).

Your Traffic Assist is equipped with TMC. TMC gives you the option of receiving traffic announcements. You will then be informed of any traffic problems. The system plans an alternative route automatically or on request to avoid traffic problems, depending on the setting.

Unpacking the Traffic Assist

Note:

Your Traffic Assist is supplied in stable packaging. Do not unpack the unit in full if you discover any serious damage to the packaging or its content. If this happens, please contact your local stockist.

Checking the delivery

Before the Traffic Assist is started up, the delivery should be checked to ensure that it is complete and in the correct condition (see also page 12).

→ Carefully unpack the content of the package and check it.

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Delivery contents



- ① Traffic Assist, the mobile navigation system
- ② Unit holder
- ③ USB cable
- ④ Motor vehicle adapter power supply 12/24 V for cigarette lighters with built-in TMC antenna.
- ⑤ DVD containing the Content Manager and the operating guide (not illustrated).

Complaints procedure

Please contact your local stockist if you have any complaints. The unit can also be sent directly to Harman/Becker in its original packaging.

Handling the packaging

Keep the original packaging in a dry place, at least for the warranty period.

Note:

The packaging should be disposed of correctly in accordance with national disposal guidelines. The packaging must not be burnt. Depending on the country to which the unit is supplied, it may be possible for local stockists to accept packaging.

Description of unit

The Traffic Assist consists of the basic unit Traffic Assist and the accessories included in the delivery.

You will find photos of the individual parts under:

- "Overview Traffic Assist" on page 12

Note:

The basic unit and accessories must not be opened or modified in any way.

Traffic Assist - basic unit

The basic unit consists of the complete electronic unit:

- Integrated antenna,
- TMC receiver for receiving traffic messages,
- Touchscreen,
- Integrated loudspeaker for issuing messages during navigation.

On the side of the unit, there are also various connections and ports.

You will find more details of the unit under:

- See “Technical Data” on page 82.

Cable for power supply from cigarette lighter

This cable allows the unit to be connected up to the car's cigarette lighter.

In addition, the TMC messages are also received via this cable.

The power supply must satisfy the following requirements:

- DC current 12/24 volts
0.5 amps

Battery

When depleted, the integrated rechargeable battery can be recharged by connecting the Traffic Assist to the power supply. For this purpose, connect the unit via a car power adapter to a 12/24 V socket in a vehicle or via the optional mains power supply unit to the 230 V mains.

Note:

You can charge the Traffic Assist via the car charger cable included in the scope of delivery or via the optionally-available mains power supply unit.

When the Traffic Assist is connected to a PC, it is supplied with power via the PC and does not consume battery power.

USB connection cable

With the USB connection cable provided, it is possible to connect the Traffic Assist to a standard PC with a USB interface. The 2GB flash memory of the Traffic Assist and a micro SD card that can be inserted may be addressed via the PC like a removable medium.

Unit bracket

The Traffic Assist can be mounted in the vehicle using the unit bracket.

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Accessories

Mains power supply unit

This power supply allows connection of the Traffic Assist to a mains outlet.

Requirements for power supply:

Alternating current

- 100-240 V
0.2 Amps
50-60 Hertz

External GPS antenna

You can use an external antenna to improve reception in vehicles where only limited GPS reception is available (not included in the scope of supply). Please contact your local stockist for more information.

Details of the connection can be found under "Connecting up external antenna" on page 19.

Headset

Standard headphones with a 3.5 mm connector or suitable adapter (not included) can be connected when using Traffic Assist.

Danger!

Prevention of damage to hearing



The use of headphones or earphones over a relatively long period of time at a high volume may cause permanent damage to your hearing.

Conformity with the limits for sound pressure laid down in the standard NF EN 50332-1:2000 as required by French Article L. 5232-1 is guaranteed.

Note:

Headphones must not be used while driving. Comply with the local national laws and regulations.

Information about documentation

Quick start guide

The Quick Start Guide is designed to provide a brief introduction to operating your Traffic Assist. The most important basic functions of the Traffic Assist are explained in the Quick Start Guide.

Operating instructions

A comprehensive explanation of the Traffic Assist functionalities is contained in these operating instructions.

Registration

You can register your product using our software service, we will then inform you of any new updates and other news.

You can register online on the Becker homepage www.mybecker.com.

The “Software update” menu item is located under “SERVICE/SUPPORT“.

Repairs

The unit must not be opened if damaged. Please contact your local stockist.

Emissions and disposal

Information on emissions, electromagnetic compatibility and disposal can be found in "NOTICE" on page 83.

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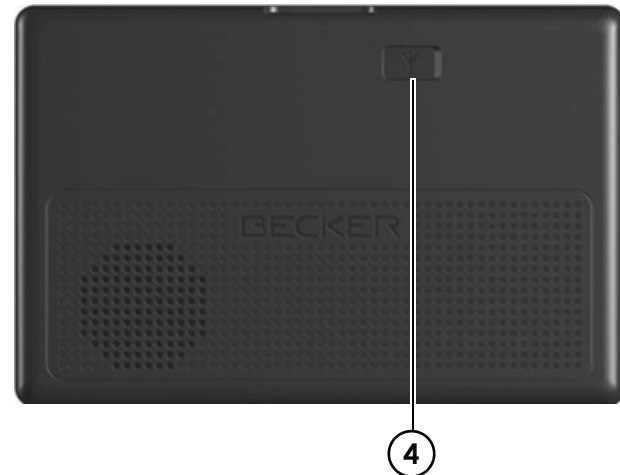
Scope of supply

- 1 Traffic Assist - PND (Personal Navigation Device)
- 2 USB connection cable
- 3 Unit bracket
- 4 Cables for voltage supply via the vehicle's cigarette lighter (12/24 volt) with built-in TMC antenna.



Front of unit with controls and displays

- 1 Touch screen showing the main menu selected
- 2 Touch screen key
Press = activates the corresponding key command
- 3 Becker button 
Press = Back function in most applications
Press and hold = switches Traffic Assist on and off



Rear of unit

- 4 Point for connecting up an external antenna
(external antenna not included in the scope of supply)

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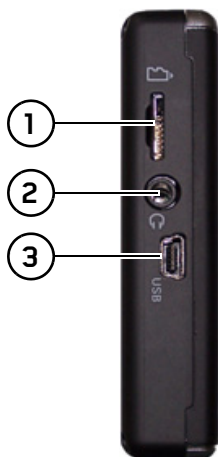
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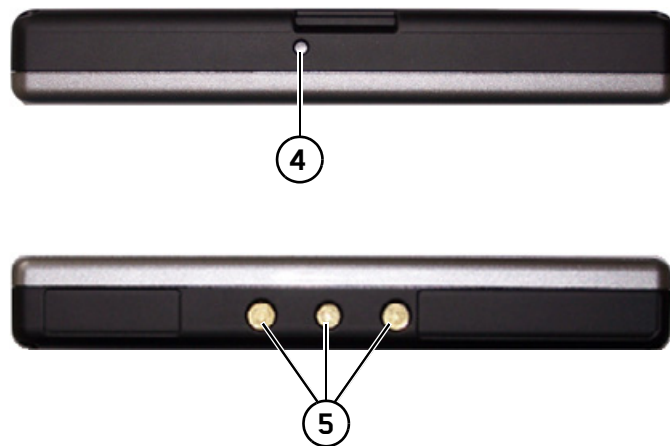
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**Left side of unit**

- 1 SD card slot
- 2 3.5 mm socket for headphones (headphones not included in scope of delivery)
- 3 Mini-USB port

**Top of unit**

- 4 Reset button

Bottom of unit

- 5 Contacts for connecting the carrier plate

Maintenance and care

The unit is maintenance-free.

For proper care, a commercially available cleansing fluid for electrical devices may be applied using a soft damp cloth.

⚠ Danger!

Danger to life by electrocution. Always switch off the unit and disconnect the mains power supply unit before cleaning the unit, supplied components, or accessories.

Note:

Do not use any aggressive or abrasive substances or cloths which may damage the surface.

The unit must not be exposed to water.

Your mobile navigation system was designed and manufactured with great care and should be treated with equal care. You will enjoy your mobile navigation system for a long time to come if you observe the recommendations listed in the following:

- Protect your mobile navigation unit and the accessories from water and moisture. If your unit has been exposed to moisture, switch it off immediately and disconnect the power supply. Allow to dry at room temperature.
- Do not operate your mobile navigation system in a dusty or dirty environment and do not store it in such an environment.
- Do not store your mobile navigation system in hot environments. High temperatures can shorten the service life of electronic components in your unit, damage the rechargeable batteries and cause certain plastics to warp or melt.
- Do not store your mobile navigation system in cold environments. During operation, when the unit warms up to operating temperature, moisture may form internally, causing damage to electronic components.
- Do not drop your mobile navigation system unit, protect it from shocks and do not shake it. Improper handling can damage components within the unit.
- Never use corrosive or aggressive chemicals, cleaning solutions or aggressive detergents for cleaning.

All the above information applies equally to the mobile navigation system, the rechargeable battery, the mains charging and car power adapters as well as all accessories. Should one of these parts not work properly, please contact your authorised dealer.

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Battery quality declaration

The capacity of the rechargeable battery in your mobile navigation system decreases with every charging/discharging cycle. Improper storage at excessively high or low temperatures may also cause a gradual deterioration of capacity. Consequently, the operating time may be substantially reduced even in the case of a fully charged battery.

The rechargeable battery is designed such that it should certainly still be possible for it to be charged and discharged after 6 months of operation of your mobile navigation system.

Display quality declaration

In some cases, for technical reasons, a few discoloured dots (pixels) may be visible on the display. Some pixels may also appear brighter or darker. However, such instances do not represent a product flaw.

Start-up

Once the Traffic Assist has been unpacked and checked for damage, the unit can be started up. The individual start-up stages are:

- connect to power supply
- Switching on the unit
- Ensuring antenna reception (if navigation is desired)

Power supply**Note:**

You can charge the Traffic Assist via the car charger cable included in the scope of delivery or via the optionally-available mains power supply unit.

When the Traffic Assist is connected to a PC, it is supplied with power via the PC and does not consume battery power.

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Using the battery

The internal power supply is via the integrated rechargeable battery. The rechargeable battery is maintenance-free and does not require any particular care.

Note:

Note that if the battery is completely discharged, it may take up to a minute before the device can be switched on again.

Note:

In the event of a defective battery, please contact your authorised dealer. Please do not attempt to remove the battery yourself.

Connection for the cigarette lighter

Note:

If the cigarette lighter has recently been used and is still hot, wait until the lighter socket has cooled down.

Connect the power supply via the vehicle battery and the cable provided for the cigarette lighter as follows:

→ Hold the USB socket at the corrugated grip area and push it into the connecting socket on the Traffic Assist or into the connecting socket on the carrier plate as far as the stop, without using excessive force.



→ Insert the adapter into the cigarette lighter.

Note:

When the engine is switched off, the power supply slowly discharges the vehicle battery via the cigarette lighter! Do not therefore operate the Traffic Assist for long periods with the engine switched off.

Note:

The TMC messages are received via the cable for the cigarette lighter. Messages can therefore only be received if the cable is connected.

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Connection to the mains outlet

⚠ Danger!

Ensure that you do not have wet hands and that the power supply unit is dry. Only connect the power supply unit to a permissible mains power supply.

Connecting power supply

Connection to the public mains grid is achieved using the optionally available mains power supply unit. Please proceed as follows to connect to the mains:

- Open the cover on the left side of the unit of the Traffic Assist.
- Hold the USB connector at the corrugated grip area and push it into the connecting socket of the Traffic Assist as far as the stop without employing excessive force.
- Insert the plug of the power supply unit into the socket.

Note:

Remove the power supply unit when not using the Traffic Assist for longer periods of time.

TMC antenna

The supplied TMC antenna is integrated into the cable for power supply.

The TMC antenna runs in parallel with the the cigarette lighter cable in the delivered condition.

If the TMC reception is poor, you must remove the cable of the TMC antenna from the cable for the cigarette lighter. You can then use the supplied suction cup to attach the TMC antenna to the windshield.

Note:

The TMC antenna must be installed in such a way that it does not distract you while driving.

GPS-antenna

Unit antenna

The GPS antenna is integrated into the housing.

Note:

The integrated GPS antenna is not suitable for use in vehicles with anti-glare windows (metalised thermo-glass or metal foil, indicated by the window label - SIGLA SOL, SIGLA CHROM, SIGLA, KOOL-OF, SUNGATE, etc.) and vehicles with fine-meshed heating wires in the windows.

If this is the case, use an external GPS antenna. Please consult your local specialist dealer.

Connecting up external antenna

To enable reception under adverse reception conditions, an external GPS antenna can be connected (not included). For this purpose, a closable connecting socket is located on the rear of the housing. If no external antenna is connected, this connection must always be closed again.

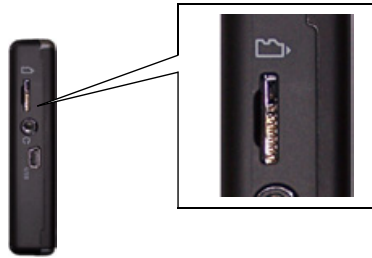


- Open the closure by pulling gently on its upper surface.
- Connect the external antenna using the optionally available adapter.

Memory card

Your Traffic Assist has a slot for a Micro SD memory card.

Because the map data is stored in an internal memory with Traffic Assist, the slot for a micro SD memory card is only used for update purposes.



The card slot is located on the left side of the device. The card compartment is equipped with a spring-actuated engage and eject mechanism.

Inserting memory card

- Remove the memory card from its packaging without touching or soiling the contact bar.
- Hold the memory card so that the contact bar faces towards the front of the unit.
- Guide the memory card into the card slot.
- Exert a little pressure and slide the memory card into the card slot until it snaps in.

Ejecting memory card

The card slot ejects the card so that you can pull it out with two fingers.

- Use your finger to gently press the memory card against the spring force into the card slot and then release it.

The card is ejected.

- Remove the memory card and place it in the packaging while ensuring not to touch contact bar.

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Unit bracket

The Traffic Assist can be attached directly to the windscreen with the unit holder.

Note:

The Traffic Assist and unit bracket must not be exposed to long periods of direct sunlight. Temperatures inside the vehicle of +70 C and higher may damage parts of the bracket.



- ① Suction surface
- ② Lever
- ③ Base
- ④ Fastening screw
- ⑤ Carrier plate
- ⑥ Clip

Fitting the unit bracket

Note:

Fasten the unit holder such that your field of vision is not impaired when the Traffic Assist is installed and ensure that the unit is outside the deployment area of the airbag.

Ensure that the electrical connection cable does not hamper you from accessing the vehicle's controls.

Clean the attachment surface on the windscreen to ensure that it is clean and free of grease. Do not use greasy or soapy cleaning agents.

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On the windscreen

The unit holder can be attached directly to the windscreen using the suction mechanism.

- Select a suitable spot to attach.
- Press the base (3) with its suction surface (1) against the windscreen. Turn the unit holder such that the carrier plate is positioned roughly in the desired viewing direction.
- Press the lever (2) down.

The holder has attached itself firmly to the windscreen. It can now be adjusted with precision. In order to remove it, operate (2) the lever again.

Moving the unit holder

- Unscrew the fastening screw (4) until the carrier plate (5) can be moved without excessive force.
- Move the carrier plate (5) to the required position and hold it in this position.
- Tighten the fastening screw (4) sufficiently so that the Traffic Assist is held securely in place when the vehicle is in motion.


Attaching the Traffic Assist

- Position the Traffic Assist, with the attachment points on the bottom of the housing, on the carrier plate (5).
- Press the Traffic Assist onto the carrier plate without using excessive force (5) until the clip (6) engages in the attachment point.


Removing Traffic Assist

Press the clip of the unit holder with your finger (6) and use your free hand to take the unit out of the unit holder.

Switching the Traffic Assist on/off

The unit is switched on and off using the key .

**Switching on**

→ Press the key  for a few seconds. The unit is switched on. The manufacturer's logo appears on the touch screen.



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When the Traffic Assist is started for the first time, the language selection is displayed automatically.



Using the   buttons, it is possible to scroll through the list in the direction of the relevant arrow.

→ Press the button for the required language.

→ The selection is confirmed by pressing **OK**.

The following prompt appears shortly afterwards:



→ If you agree to the request contained in this prompt, press the **OK** button.

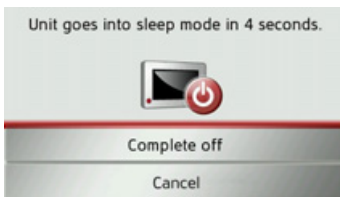
Note:

Use of the Traffic Assist is only permitted in accordance with the national road traffic regulations applicable at the time.

Switching off


You can switch the unit off at any time.

→ Press the  button for a few seconds.



If you do not operate any controls Traffic Assist enters sleep mode after 5 seconds.

Note:

During the 5 seconds, you can cancel the switch off process by pressing the **Cancel** button or the  button.

→ Press the **Complete off** button to switch Traffic Assist off completely.

Note:

We recommend that you place the Traffic Assist in sleep mode in the event of short interruptions to operation (of up to a week).

This significantly reduces the switch-on time and the Traffic Assist finds the satellites required for navigation much faster.

Basic information about the touch screen

The Traffic Assist is fitted with a touch screen.



Note:

To ensure that the display's surface is not damaged, you may only touch it with your fingers or a blunt, non-smearing object.

Operation

When you touch a button on the touch-screen, the button in question is briefly shown outlined in red to confirm the selection.

If you touch a button that is not active at the moment, a short signal tone sounds.

Calibration

If the touch screen starts responding imprecisely and e.g. buttons have to be touched off-centre in order to be actuated, calibration should be undertaken.

The calibration function is started from the Settings menu (see also page 76).

Basic information about the menus

During operations, you are assisted by various menu and entry windows.

The main menu

The top menu level is the main menu. The individual applications are started from the main menu.



You will find information about the individual applications in the corresponding main chapters.

In addition to the individual applications, the main menu also contains further information and operating options.

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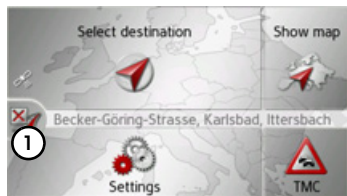
→ SK

A satellite symbol on the left-hand side of the **Select destination** button indicates whether there is currently any GPS reception.



- ① GPS reception
- ② No GPS reception

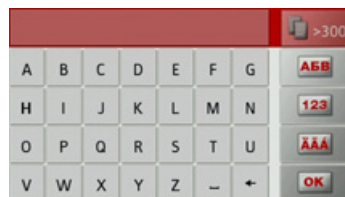
If route guidance is already active, the current destination address and a button for cancelling route guidance will be displayed between the two rows of buttons.



Press the button ① to cancel route guidance to the displayed destination directly in the main menu.

Entries made with the entry menu

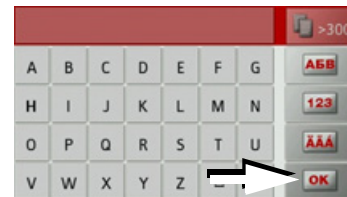
Some applications require entries to be made via the entry menu. The entry menu is operated in a similar way to a keypad.



The character entered on the keypad is displayed in the top line of the entry menu. The central area is used to enter characters. Help functions are provided in the right line. Descriptions of how to operate the menu are provided below.

Entering characters

Characters are entered by pressing the keys in the central area.



Once the entry is complete, the process is concluded by pressing the **OK** key and the entry passed on to the Traffic Assist for processing.

When a navigation destination is entered, the Traffic Assist compares the entry with the set of data.

The Traffic Assist then only makes those letters which are possible available for selection.

The non-selectable characters are shown in a lighter font.

Accepting proposals

During entry, the Traffic Assist makes proposals in the uppermost line.

The proposals take into account your usage habits. For instance, if you enter the city of Hamburg often, then after you enter the letter "H" the proposal "Hamburg" is automatically displayed.

If no preferences are known for the letter entered, then cities/locations suitable for the entry are displayed as proposals.



→ To accept the proposal, you may press either the input field or the **OK** button.

Scrolling through the lists

If you have already entered some of the letters of the selection you want, you can use the selection list to display all the destinations containing the combination of letters in question.



→ To call up the selection list, press the **>300** key.

Note:

The quantity of selection options is displayed in the form of the number on the button. When there are more than 300 options, the precise number is not displayed.

In the list, all the entries corresponding to the letters already entered are displayed. The letters entered are coloured red in the case of the individual entries.

The selection list appears.



→ Press the **▲** **▼** arrow keys on the right hand side of the screen to scroll through the list.

→ Press the destination you want.

The destination is adopted and the selection list is closed.

Special characters and umlauts

Special characters and umlauts do not have to be used when entering the names of towns and streets. The Traffic Assist will change entries from AE, OE and UE if necessary.

→ If, for example, you are looking for the location "Würzburg", then simply press "WUERZBURG" or "WURZBURG".

Special characters can be useful when naming destinations and routes.

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→ In order to switch to the special characters keyboard, press the button marked with an arrow.

The special characters keyboard is displayed.



→ Enter the desired special character.

After you enter a character, the Traffic Assist automatically switches to the normal input menu.

To exit the special character keypad without an entry, press the button marked with the arrow.

Other character sets

Different character sets can be selected for the keyboard of the Traffic Assist.



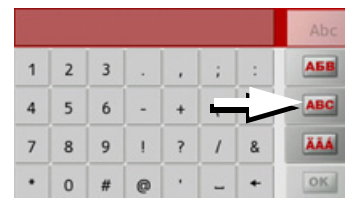
→ Press the button marked with an arrow repeatedly until the desired character set is selected.

Entering numbers

Switch to the numbers keyboard in order to enter figures.

→ Press the **123** button.

The numbers keyboard is displayed.



→ In order to return again to the keyboard for entering letters, press the button marked with an arrow.

Switching between upper and lower case

During free text entry, it is possible to switch between upper/lower case and the automatic function.



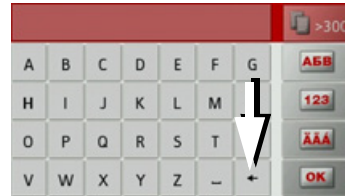
→ Press repeatedly on the button in the top right-hand corner of the display until the desired method of entry is activated.

The inscription on the button symbolises the method of entry.

- The **Abc** button represents automatic mode. This means that, on entry, the first letter is automatically in upper case and subsequently changes automatically to lower case.
- The **ABC** button represents the entry of upper case letters.
- The **abc** button represents the entry of lower case letters.

Deleting characters

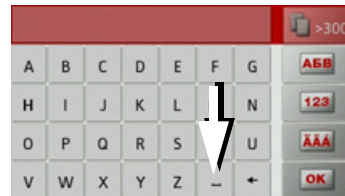
To delete the last character, use the back key.



→ To delete the character to the left of the cursor, press the **←** key.


Inserting spaces

If you have an entry with two words, e.g. for names of towns, the words should be separated by a space.



→ To enter a space, press the **—** key.

The Becker key

The key  is integrated in the bottom left hand corner of the casing.



It has various functions:

- Pressing and holding the button switches the Traffic Assist on or off.
- depending on the menu context, if pressed briefly, you will be returned to the previous entry level.

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Content Manager

The Content Manager is a PC-based application containing a number of important functions to help you manage the content on your Traffic Assist.

With the Content Manager you can:

- back up the content saved on the Traffic Assist to your PC and restore it later to your Traffic Assist,
- install content stored on the DVD and
- download current content from the Internet and install it on the Traffic Assist.

To use the Content Manager, you will need the USB cable provided as well as a computer that meets the following minimum requirements:

	Minimum requirements
Operating system	Windows XP
Processor	300 MHz clock frequency
Main memory	256 MB
Free storage space	2 GB

Installing the Content Manager

You can install the Content Manager on your computer with the following steps:

→ Insert the DVD containing the Content Manager in the DVD drive of the computer.

→ If the DVD does not start automatically, please start the "BECKERCMSETUP.EXE" file in the "CONTENTMANAGER" directory manually.

→ Select a language from the list and then click on **OK**.

→ Read the welcome page and click on **Next** to continue.

→ Select the installation folder. A default installation folder is already specified. To select another folder, either type in the path name or click on **Browse** and define another folder.

→ Click on **Install** to start the copying procedure. Click on **Details** to see the details during copying.

The Content Manager is automatically started immediately after installation. Remove the check mark from the box if you do not want this.

This completes the installation procedure.

→ Click on **Finish** to exit the installation program.

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Starting the Content Manager

Execute the following actions to start the Content Manager:

- Connect the USB interface of the Traffic Assist directly to the USB port of the computer using the USB cable provided.



- Switch on the Traffic Assist using the  button.

Note:

When you connect the Becker Traffic Assist to the PC for the first time, the PC installs all the necessary drivers and then displays the message "Your unit is now ready to use".

After a short time, the Traffic Assist is displayed as a removable storage medium on the computer.

- Click on Start > **All Programs** on the computer.
- Select Becker.
- Click on Content Manager.

When the Content Manager is started, the program executes a number of steps before you can start to manage your navigation software content.

Each time the program is called, a connection is established to the Internet to check whether a new version of the Content Manager is available. If a new software version is found, the Content Manager gives you the option of installing it. We recommend that you always agree to the upgrade, if one is available. If a new software version is found, you have the following options:

- Click on **Yes** to accept the new software version. The new version is downloaded and installed before you can start the Content Manager.

- Click on **No** to start the Content Manager with the version already installed.
- If the new version is a critical update, the **Exit** button will be shown instead of the **No** button. You must install the new version, otherwise you have to exit the application.

When you insert the DVD in the DVD drive of your PC, the Content Manager automatically reads and catalogues the DVD content (provided it has not already been added to the content list).

If you have not yet made a backup of the navigation unit, the Content Manager will ask you each time it starts whether you would like to make a complete or partial backup copy.

Note:

We recommend that you always create the backup. Otherwise you will not be able to restore the content in the event of loss of data.

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Malfunctions in the operating system or in the unit are displayed accordingly. If the desired function cannot then be executed, the Traffic Assist must be restarted using the reset button.

If the messages reappear or the unit does not function correctly for any other reason, please contact your local stockist.

You can also try to find a solution to your problem in the FAQ in the Support area on the Becker homepage (www.mybecker.com).

Note:

Never attempt to open the unit yourself. Please contact your authorised dealer if you are unable to remedy the fault.

What is navigation?

The term "navigation" (lat. navigare = to travel by sea) is generally understood to mean the location of a vehicle, the determination of the direction and distance from the desired destination and the determination of the required route. Stars, prominent landmarks, compass and satellites etc. are used as navigation aids.

With the Traffic Assist, the location is determined by the GPS receiver. The Global Positioning System (GPS) was developed during the 1970s by the US military as a weapons guiding system.

GPS is based on a total of 24 satellites orbiting the Earth and emitting signals. A GPS receiver receives these signals and uses the signal times to calculate the distance to an individual satellite, and then determines your current geographical position.

Signals from at least three satellites are required to determine your position; your height above sea level can be calculated if signals are received from four or more satellites.

The Traffic Assist determines the direction and distance from the destination using a navigation computer and a digital street map held in its internal memory.

For safety reasons, route guidance is **given predominantly in spoken form**. This is supported by a direction indicator and a map display on the touch screen.

⚠ Safety instructions

- Road traffic regulations always take priority. The navigation system is only an aid. Errors may occur in individual data items/entries. At all times, the driver must decide whether or not to heed the information provided. We do not accept liability for erroneous data provided by the navigation system.
- When first put into use it can take up to 30 minutes to fix the position.
- Observation of traffic signs and local traffic regulations must always take priority.
- Traffic guidance is restricted to passenger vehicles. Special driving recommendations and regulations for other vehicles (e.g. commercial vehicles) are not included.
- Destinations may only be entered when the vehicle is stationary.

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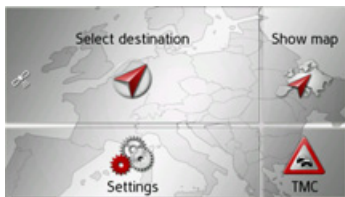
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Selecting navigation

Navigation mode is called up from the main menu.



→ In the main menu, press **Select destination**.

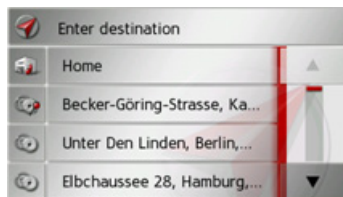
The fast access function is called up.

Note:

If an address is displayed between the two rows of buttons, this means that route guidance has already been started to the displayed address.

Fast access mode

In fast access mode, the most recent destinations and saved destinations are displayed and can be selected directly. The destination input menu can also be accessed using the fast access function.



Configuration of fast access mode

In fast access mode, the **Enter destination** button for calling up the destination input menu is displayed on the top line.

If you have already entered your home address, you can start route guidance to your home address in the second line.

The destination list containing the destinations most recently travelled to as well as saved destinations is displayed in the lines below this.

The destination list

The destination list displays, line by line, all destinations available for fast dialling. If you have already entered your home address, you can start route guidance to your home address in the first line.

Each line of the destination list is divided into two fields. Each list field is in the form of a button. The destination is shown on the right-hand button and the properties of the destination are displayed using the left icon.




Note:

Up to 200 of the most recent destinations are automatically stored in the destination list. If the storage capacity is reached, the oldest destination is automatically deleted to make room for a new destination. However, important destinations can be protected.

If you select your home address and it has not yet been defined, you will be requested to enter the address.

Icons used

The following icons are used in the destination list:

Icon	Meaning
	This destination is a standard destination with no special features.
	This destination is protected. If the destination memory is full, this destination will not automatically be deleted. This can be performed manually, if required. In the case of a protected entry, you can also determine the position using the fast access function.
	This destination is the current home address.

Using fast access mode

Start with existing destination



The destinations available in fast access mode are included in the destination list.

→ Press the button for the desired destination to start route calculation.

The calculation begins.

When the calculation is complete, the map appears and the route guidance begins.

Scrolling through stored destinations

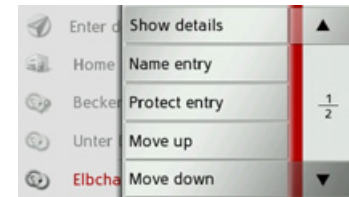
Using the   buttons, it is possible to scroll through the list in the direction of the relevant arrow.

Displaying or editing a destination

Any destination stored in fast access mode can be displayed and edited.

→ Press the button to the left of the desired destination.

→ A selection menu appears.



Option	Meaning
Show details	The data for the destination are displayed. From this screen you can display the destination on the map, display the route or start the route guidance.
Name entry	The destination can be renamed. If the destination is given a name it is automatically protected.
Delete entry	The destination is deleted from the fast access mode.

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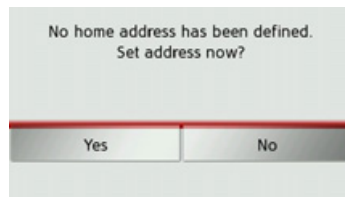
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Option	Meaning
Protect entry	The destination is protected against automatic deletion. This function is only available in the case of unprotected destinations.
Remove protection	Protection of the destination is disabled. This function is only available for protected destinations.
Move up	The destination is moved forwards by one position. If the destination is moved it is automatically protected.
Move down	The destination is moved back by one position. If the destination is moved it is automatically protected.
Delete all entries	All destinations (including protected destinations and your home address) are deleted from the list.

Home address

When you press the **Home** button you will be asked to enter an address if no home address has yet been entered.



→ Press **Yes** to enter the address.

You can then enter a destination as described under "The destination input menu" on page 34.

Note:

The menu items **Set current position** and **Select from last destinations** (fast access mode) can also be used to select a destination.

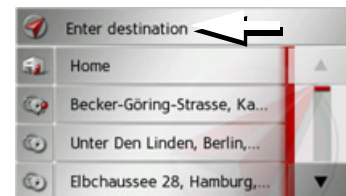
Calling up the destination input menu

The **Enter destination** button can be used to call up the destination input menu.

- See "The destination input menu" on page 34.

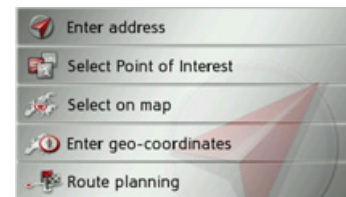
The destination input menu

If fast destination selection is not required or the planned destination is not yet included in fast access mode, you can enter a new destination using the destination input menu.



→ In fast access mode, press the **Enter destination** button at the top of the screen.

The destination input menu will appear.



Configuration of the destination input menu

Enter address

The various steps from selecting an address to starting route guidance can be carried out using the **Enter address** button.

- See “Entering the address” on page 35.

Select Point of Interest

Points of interest such as airports and ferry ports, restaurants, hotels, petrol stations or public buildings can be selected and route guidance started using the **Select Point of Interest** button.

- See “Points of interest” on page 40.

Select on map

With **Select on map**, you can select a destination directly on the map and start route guidance.

- See “Selecting a destination from the map” on page 43.

Enter geo-coordinates

The geographic coordinates for a destination can be entered and route guidance started via the **Enter geo-coordinates** button.

- See “Coordinate entry” on page 44.

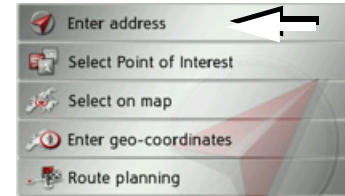
Route planning

A route with several waypoints can be planned using the **Route planning** button.

- See “Route planning” on page 45.

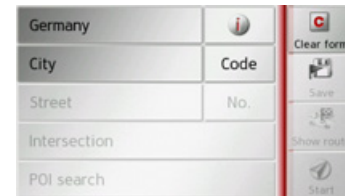
Entering the address

The **Enter address** button in the destination input menu opens the menu for entering addresses.



→ In the destination input menu, press the **Enter address** button.

The menu for entering addresses appears.



Note:

By pressing the **Clear form** button (top right) you can delete all entered data apart from the country.

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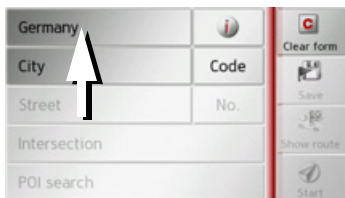
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Selecting a country

You can select a country from those available using the button for the country of destination. A country is adopted automatically in the address input menu after selection. If a country of destination has already been entered it will remain until you select a different country.

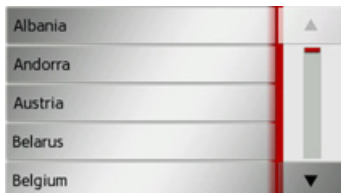
Note:

By pressing the  button next to the country you can display country-specific information such as the maximum permitted speed for the selected country.





→ Press the button containing the country of destination to access the country selection list.

The selection list will appear.



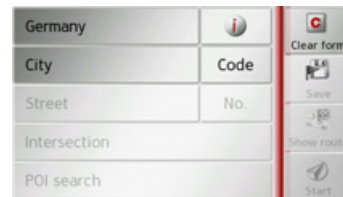
→ Press the button for the desired country.

Note:

If required, press the arrow keys   on the right of the screen to scroll through all available countries of destination.

Selecting an address and starting route guidance

You can enter the exact destination address in the address input menu.



The following settings can be made in the address input menu:

- Town
- Postcode
- Street and house number
- Junctions as an orientation aid

It is also possible to:

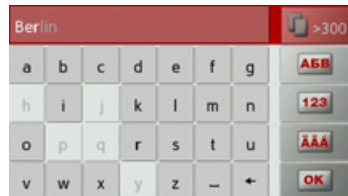
- search for a point of interest near to the address entered (**POI search**). This can be entered as described under “Point of interest near to an address” on page 42,
- save the destination in fast access mode,
- show the route on the map,
- start the route guidance straight away.

Selecting a town

The destination can be entered by either using the name or ZIP code.

If you enter the letters of a location, the Traffic Assist displays proposals (See “Accepting proposals” on page 25.). If you do not want to accept the proposal, just enter the other letters of the location you want. The Traffic Assist excludes all impossible letter combinations and ZIP codes and activates only letter fields or numerical fields that lead to an existing location or ZIP code.

→ Select the option of entering the town or postcode.



→ Enter the letters of the destination town or the numbers of the postcode consecutively.

Note:

If two words need to be entered you must separate them with the character **-**.

When sufficient letters have been entered it will automatically switch to a list from which you can select the town. However, you can switch to the list before this by pressing the **>300** button.

Note:

If you have entered a postcode, the name of the town will be hidden in the input menu to start with. If you then enter the street name, the name of the town will then also be displayed.

Using the town list

Once a few letters of the desired town have been entered you can display a list of all the towns with the relevant letter combinations or this list will be displayed automatically.

→ Press the **>300** button on the right of the screen to call up the list.



You can scroll through the displayed list using the **▲** **▼** buttons.

→ Press the button for the required town.

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Selecting the street

In the **Street** menu field the street and house number can be entered separately using a letter and number field.

The Traffic Assist excludes all impossible letter combinations and activates only those letters that could give an existing street name.


A house number can only be chosen once the street has been selected and if house numbers are included in the data.

→ Enter the letters of the destination street consecutively.



When sufficient letters have been entered it will automatically switch to a list from which you can select the street. However, you can switch to the list before this by pressing the  button.

Using the street list

Once a few letters of the desired street have been entered you can display a list of all the streets with the relevant letter combinations or this list will be displayed automatically.

→ Press the  button on the right of the screen to call up the street list.



You can scroll through the displayed list using the   buttons.

→ Press the button containing the desired street.

Selecting the Intersection

After entering the destination town and street, you can enter a junction so as to further limit the choice.

Note:

Instead of entering a junction, you can also enter a house number. However, it is not possible to enter both at the same time.

→ Press the **Intersection** button.

The input menu for the name of the junction will appear.

→ Enter the name of the junction.

Once a few letters of the desired street have been entered a list will automatically be displayed.

→ Press the button for the desired street.

Selecting a house number


After entering the destination town and street, you can enter a house number so as to further limit the choice.

Note:

Instead of entering the house number, you can also enter a junction. However, it is not possible to enter both at the same time.

→ Press **No**.

The input menu for the house number will appear.

→ Enter the house number and then press the  button.

Displaying the route

Once the address has been entered, the address input menu allows the route to the destination to be displayed on the map.

→ Press the **Show route** button to display the route on the map.
The route is calculated.




You can start the route guidance directly from this screen using the **Start** button.

The other options on this screen are described under “Displaying the entire route” on page 67.

Storing a destination

In the address input menu, the **Save** button opens a menu where a name can be entered for the specified destination.

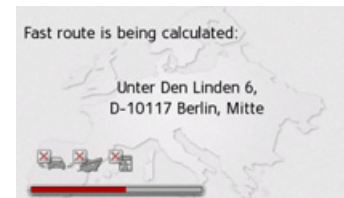
If the desired name has been entered and  has been pressed to accept it, the destination is transferred to fast access mode and protected.

Starting navigation (trace)

The **Start** button starts the route guidance.

All data entered thus far is processed when calculating the route.

→ Press **Start** to start the route guidance.



The route is calculated. The map will then be displayed and the route guidance will begin.

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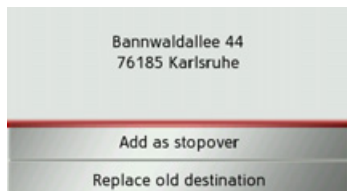
→ PL

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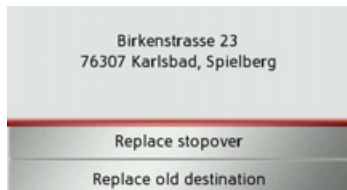
→ SK

If the route guidance is already running you will be asked whether the new destination should replace the old destination or if the new destination should be regarded as a waypoint.



→ Select **Add as stopover** or **Replace old destination**.

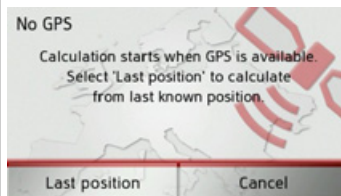
If the route guidance is already running and a waypoint has already been entered you will be asked whether the new destination should replace the old destination or the waypoint.



→ Select **Replace stopover** or **Replace old destination**.

Note:

If there is no GPS signal when the route is calculated, the following will be displayed:



When a GPS signal is available, the route calculation will start automatically.

When the **Last position** button is pressed, the last known position is used and the route calculated from this position.

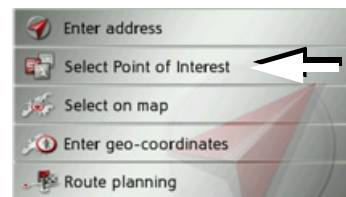
Points of interest

Points of interest (POI) are included in the map and can be displayed there. Points of interest include airports and ferry ports, restaurants, hotels, petrol stations, public buildings. You can use points of interests as navigation destinations.

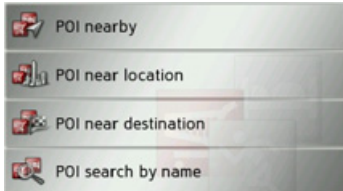
Note:

You can only select points of interest in the area in question if the GPS reception is adequate for determining a position. Otherwise, the last position stored will be used.

→ Press **Enter destination** in the fast access menu.



→ Press the **Select Point of Interest** button.



You can choose between:

- a point of interest in the vicinity,
- a point of interest near to an address,
- a point of interest near to a destination, or
- entering a point of interest directly.

Point of interest in the vicinity

→ Press the **POI nearby** button.



Press the arrow keys  to scroll through the list displayed.

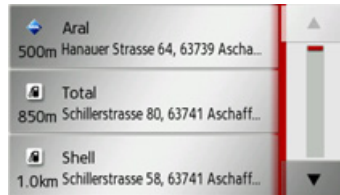
→ Select one of the available categories.

Note:

You can also press the **All categories** button. An input menu will then open and you can enter the name of a point of interest directly and confirm it.

For some categories, e.g. petrol stations, a further selection menu is displayed in which you can narrow down the choice further, e.g. by brand.

If you have selected the category, any points of interest belonging to the relevant category and available within the area in question will now be displayed.



The name, distance as the crow flies and the address is displayed for each entry.

→ Select the desired point of interest.



You will now receive additional information about your chosen destination.

→ Press the **Start** button to begin route guidance to the point of interest directly.

However, you can also display your chosen point of interest on the map (**On map**), store it in fast access mode (**Save**) or display the route to the point of interest (**Show route**).

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Point of interest near to an address→ Press **POI near location**.

Germany		
City	Code	
Street	No.	
Intersection		
POI search		

→ Select the desired country.

→ In the **City** or **Code** field, enter the town where you wish to search for a point of interest.**Note:**

If you have already entered an address, this address will appear by default.

→ Press the **POI search** button.→ Press the **Select category** button.**Note:**You can also press the **Select POI** button. An input menu will then open and you can enter the name of a point of interest directly and confirm it.

The points of interest categories available for the entered town are displayed.

→ Select the desired point of interest as described under “Point of interest in the vicinity” on page 41.

Germany		
Berlin	10117	
Street	No.	
Important Tourist Attraction		
Gendarmenmarkt		

→ Press the **Start** button to begin route guidance to the point of interest straight away.However, you can also store your chosen point of interest in fast access mode (**Save**) or display the route to the point of interest (**Show route**).

Press the button next to your chosen point of interest to display any additional information about the destination.

Point of interest near to destination→ Press the **POI nearby** button.

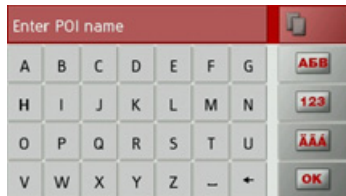
All categories	
Petrol Station	
Restaurant	
Accommodation	
Medical	

The categories available near to the destination are displayed.

→ Select the desired point of interest as described under “Point of interest in the vicinity” on page 41.

Entering a point of interest directly

→ Press the **POI search by name** button.



→ Enter the desired point of interest or part of the name.

→ Press the **OK** button.

The Traffic Assist displays in a list all the points of interest corresponding to the name entered.

Note:

The search radius is limited to 200 kilometers from your current position.

→ Select the desired destination from the list.



You will now receive additional information about your chosen destination.

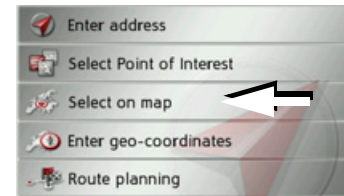
→ Press the **Start** button to begin route guidance to the point of interest straight away.

However, you can also display your chosen point of interest on the map (**On map**), store it in fast access mode (**Save**) or display the route to the point of interest (**Show route**).

Selecting a destination from the map

You can select a destination straight from the map.

→ Press **Enter destination** in fast access mode.



→ Press the **Select on map** button.

The map display appears.

Note:

You may need to make the area larger using the zoom buttons **+** and **-** in order to find the desired point. You can also move the map to the desired point.

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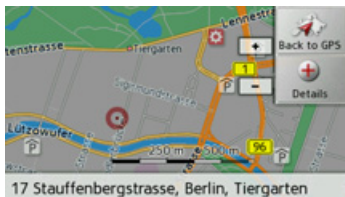
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→ Press the desired point lightly on the surface of the screen.

A flashing red cross will be displayed at this point.

Note:

By pressing the **Back to GPS** button you can display your current position again.

→ Press the **Details** button.



Where available, the address of your chosen point is displayed.

→ Press the **Start** button to begin route guidance to your chosen destination straight away.

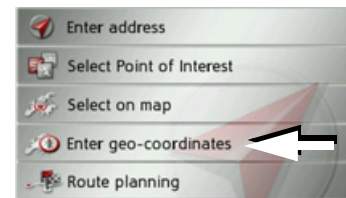
You can also search for points of interest in the vicinity of your chosen point using the **POI nearby** button.

However, you can also store your chosen point in fast access mode (**Save**) or display the route to the point of interest (**Show route**).

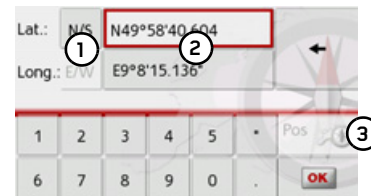
Coordinate entry

You can also enter your destination using geographic coordinates.

→ Press **Enter destination** in fast access mode.



→ Press **Enter geo-coordinates** in the navigation menu.



→ Using **2** select the value you wish to change.

→ Using the two buttons indicated by **1** select the direction required for the geographic longitude and latitude (east/west or north/south).

→ Then enter the desired values using the buttons **1** to **0**.

You can enter coordinates in three different ways.

The following formats can be used:

- Degrees Minutes Seconds.Decimal seconds e.g. 42°52'46.801"
- Degrees Minutes.Decimal minutes e.g. 48° 53.56667'
- Decimal degrees e.g. 48.89277778

Notes:

- The coordinates entered must correspond to WGS84 (World Geodetic System 1984).
- If you press button **3** your current geographic position will be entered into the fields.

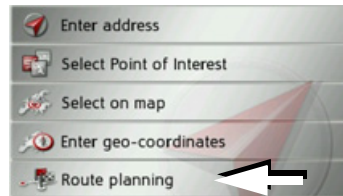
→ Press the **OK** button.

Where possible, an address matching the coordinates will be displayed. You can view the destination on the map, store it, display the route to the destination or start the route guidance straight away.

Route planning

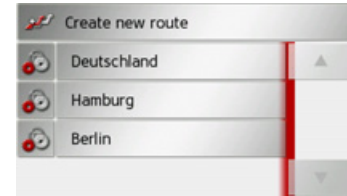
The route planning menu allows you to create and select individual routes. To do this, enter the individual destination points for the desired route. It is then possible to travel to these points consecutively without having to enter any further information. You can also optimise the destination points entered and in so doing change their order.

→ Press **Enter destination** in fast access mode.



→ Press the **Route planning** button.

In the route menu you can create a new route by pressing the **Create new route** button. Previously stored routes are shown in a list below this.



Note:

If no routes have yet been stored, the route menu is empty.

Scrolling through stored routes

→ Press the arrow keys **▲** | **▼** on the right of the screen to scroll through the stored routes.

Editing stored routes

You can add additional stages to a stored route, change the name of the route or delete it.

→ Press the **gear** button in front of the route you wish to edit.

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By pressing **Add stage** you can now add a stage to the route.

After pressing **Rename route** you can give the route a new name.

Pressing **Delete route** will allow you to delete the route from the stored routes.

Selecting and starting a route

→ Press a route to select it.

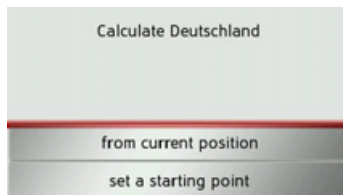
The route is loaded and displayed in the stage menu.



→ Press the top button.

Note:

You can also select a leg of the route. The route is started as of this leg.



→ Select the start point or your current position as the start point for route guidance.

Note:

If a start point is selected, this is only used to view a route.

The individual stages are calculated.



A map of the stages will then be displayed.





→ Press the **Start** button to start guidance for this route.

You can call up the route options using the **Options** button.

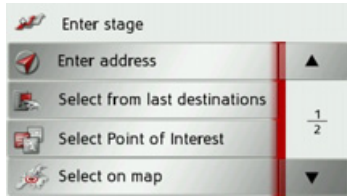
You can optimise the order of the destinations to be travelled to by pressing the **Optimise** button.

By pressing the  or  button you can simulate the entire route quickly or slowly. You can stop the simulation by tapping the screen.

You can use the  and  buttons in the bottom line to scroll through the individual stages in the route. As you scroll, each stage is shown.

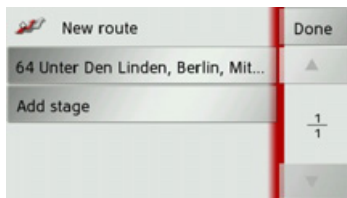
Creating a new route

→ In the route menu, press **Create new route**.



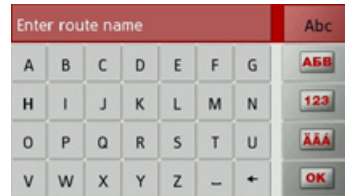
You can now enter an intermediate destination as described under “The destination input menu” on page 34 (**Enter address, Select Point of Interest, Select on map** or **Enter geo-coordinates**). You also have the option of quickly selecting a destination using the **Select from last destinations** button.

→ In the input menu, press the **Add** button to accept the relevant intermediate destination.



→ Press **Add stage** to enter further intermediate destinations as described above.

→ When you have entered all intermediate destinations, press the **Done** button.

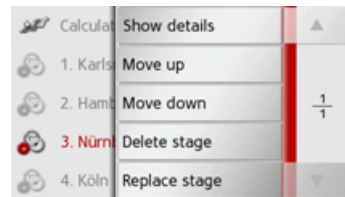


→ Give the route a name of your choice. The stage menu for the new route will be displayed.

Editing a route

→ Select the route you wish to edit.

→ Press the button in front of the stage you wish to edit.



The edit menu will be displayed. The following options are available:

Option	Meaning
Show details	The data relating to the intermediate destination is displayed. From this screen, you can display the intermediate destination on the map.
Move up	The stage is moved forwards by one position.
Move down	The stage is moved backwards by one position.
Delete stage	The stage is deleted from the route.
Replace stage	You can replace the selected stage with another intermediate destination.

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Optimising a route

If you have entered several destinations for a route, you can use the Traffic Assist to optimise the order of the destinations for the journey distance. The route stored is retained even after optimization, however. Call up the map display for the stages of the route.



→ Press **Optimise**.

The route is optimised and recalculated.




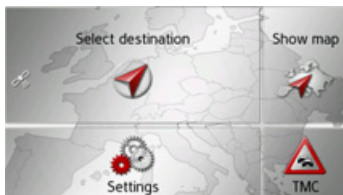
The optimised route is displayed.

Navigation settings

The navigation settings contain all the settings that are relevant to the navigation functions.

Note:

All your settings must be confirmed by pressing the **OK** button. Using the  button, you can exit the current menu at any time without having changed anything.



→ In the main menu, press **Settings**.





→ Press the **Navigation settings** button.

This will take you to the navigation settings menu.

Configuration

Various pages containing functions are available in the menu:



You can go to the next or previous page of the settings by pressing the  and  buttons.

The Travel info button

In the **Travel info** settings window, you can set which additional information you would like displayed during route guidance.

→ Press **Travel info** in the settings menu.



The **Travel info** settings window appears.



The following settings are available:

- **Info main destination**

Display of the estimated time of arrival (ETA), distance still to be travelled and time to arrival at your main destination.

- **Info next destination**

Display of the estimated time of arrival, distance still to be travelled and time to arrival at your waypoint.

- **Country info**

When this function is activated you will automatically receive generally applicable traffic information for the relevant country when you cross a national border (e.g. speed limits).

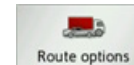
→ Press the relevant button to switch the required function on or off .

→ Confirm your selection by pressing the **OK** button.

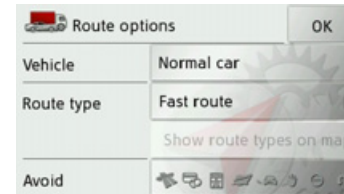
The Route options button

You can edit your driving profile in the **Route options** settings window. The settings made here have an effect on the route selection and on the calculation of the estimated journey times.

→ Press **Route options** in the settings menu.



The **Route options** settings window appears.



→ Select the mode of travel after pressing the button next to **Vehicle**.

This setting affects the calculation of the estimated time of arrival and for the setting 'bicycle', for example, it blocks the motorway.

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→ After pressing the button next to **Route type** select one of the following options.

Option	Meaning
Optimal route	With this option, the optimum route in terms of travel time and mileage is calculated.
Fast route	With this option, the fastest route in terms of travel time is calculated.
Short route	With this option, the shortest route in terms of mileage is calculated.
Easy route	With this option, a route with as few manoeuvres as possible is calculated. This may result in large detours.

Displaying different route types

You can use the Traffic Assist to display previously described routes.

Note:

This function can only be selected if route guidance is already active or the route option setting was called up from a destination input window.

→ Press the **Show route types on map** button.

After a short time, the map will appear. The individual routes are calculated one after another and marked on the map.



The area on the right-hand side shows the colour key for the individual routes, the mileage for each route and the estimated driving time.

Note:




Please note that, in many cases, the fastest route will overlay a simple or optimum route.

You can select the desired route by pressing one of the buttons.

Avoiding particular types of road

After pressing the button next to **Avoid** you can exclude various types of road, e.g. **motorways**, **ferries** and **toll roads**, from the route calculation.

You can set one of the following options for each of these road types.

Option	Meaning
Permitted 	With this option, the road type in question is included in calculating the route.
Avoid 	With this option, the road type in question is avoided where possible.
Prohibited 	With this option, the road type in question is not included in calculating the route.

→ Confirm your selection by pressing the **OK** button.

The Junction info button

In the **Junction info** settings window you can turn on or off the help available for complex turnings, such as motorway intersections or certain multi-lane roads.
 → Press **Junction info** in the settings menu.



The **Junction info** settings window appears.



Setting	Meaning
Lane info	When this function is enabled, a small arrow indicates which lane you should move into in the case of multi-lane roads.

Setting	Meaning
Signposts	When this function is enabled, you receive information regarding traffic signing which you should follow.

Note:
 This information can only be displayed if it is contained in the map material.

→ Press the required option to turn the corresponding function on or off .

→ Confirm your selection by pressing the **OK** button.

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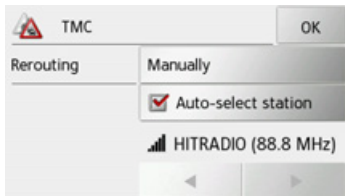
The TMC button

You can configure settings for the reception of traffic announcements in the TMC settings window.

→ Press **TMC** in the settings menu.



The TMC settings window appears.



Setting	Meaning
Auto-select station	Choose whether to run an automatic search for the station with the best reception (function switched on <input checked="" type="checkbox"/>).

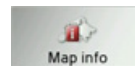
Setting	Meaning
	Press the arrow buttons to activate the automatic station search. The currently tuned TMC station is displayed in the adjacent field. This can only be set if the Auto-select station function is switched off.
Rerouting	This button allows you to choose whether the route change should be made Never , Automatically or Manually . (See “Taking announcements into consideration when calculating routes” on page 59.) The setting Never is equivalent to switching off the TMC function.

→ Confirm your settings by pressing the **OK** button.

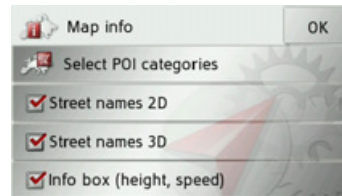
The Map info button

In the **Map info** settings window, you can configure settings for additional information in the map display.

→ Press **Map info** in the settings menu.



The **Map info** settings window appears.



Setting	Meaning
Street names 2D	When you switch this option on, all street names are displayed on the map in 2D mode.
Street names 3D	When you switch this option on, all street names are displayed on the map in 3D mode.

Setting	Meaning
Info box (height, speed)	If you switch on the entry, then the speed, a compass, and the sea level are displayed in a small box in the map.

→ Press the required option to turn the corresponding function on or off .

You can also decide whether symbols should be displayed on the map to represent points of interest and which ones to use.

→ Press the **Select POI categories** button.



Selecting **Show all POIs** displays all points of interest on the map.

Selecting **Show no POIs** displays no points of interest on the map.

By selecting **User defined selection** and then pressing the **Select POIs** button, you can, in the menu which then appears, determine for yourself whether each individual points of interest category is displayed or not.

→ Confirm all your settings by pressing the **OK** button.

The Speed info button

The **Speed info** settings window allows you to display speed limits parallel to the navigation. You can also be warned against exceeding the speed limit by an acoustic warning.

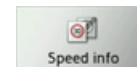
Note:

This information can only be displayed if it is contained in the map material.

⚠ Danger!

The information in the map material may be incorrect as a result of short-term changes (road works, for example). The traffic situation and the local road signs take precedence over the navigation system information.

→ Press **Speed info** in the settings menu.



The **Speed info** settings window appears.

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The following settings are available.

To select settings always press the field next to the setting that you wish to change.

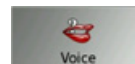
Setting	Meaning
Show signs	Select whether speed limits are never displayed, always displayed or only displayed if the limit is exceeded.
In city	Select the amount over the speed limit at which you would like to receive an acoustic warning within built-up areas.
Out of city	Select the amount over the speed limit at which you would like to receive an acoustic warning outside built-up areas.

→ Confirm your selection by pressing the **OK** button.

The Voice button

In the **Voice** settings window you can set the voice that will make the navigation announcements for the language that has been set.

→ Press **Voice** in the settings menu.



The **Voice** settings window appears.



→ Select the desired voice.

A short example announcement is given.

→ Confirm your selection by pressing the **OK** button.

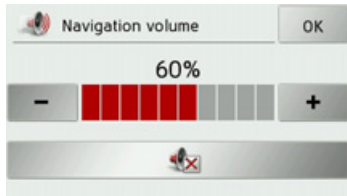
The Volume button

With the **Volume** settings window, you can set the standard volume for voice announcements for each start of the Traffic Assist, or switch off voice announcements completely. Depending on the situation, this setting can be fitted into the map display.


→ Press **Volume** in the settings menu.



The **Volume** settings window appears.



→ Select the desired volume using the **-** and **+** buttons.

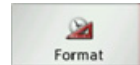
→ Press the  button to switch off the voice output completely.

→ Confirm your settings by pressing the **OK** button.

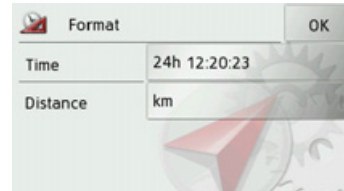
The Format button

In the **Format** settings window you can set the measurement units to be used for times and distances.

→ Press **Format** in the settings menu.



The **Format** settings window appears.



Press the field next to **Time** to switch between the 12 hour clock and the 24 hour clock.

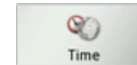
Press the field next to **Distance** to switch between kilometres and miles.

→ Confirm your settings by pressing the **OK** button.

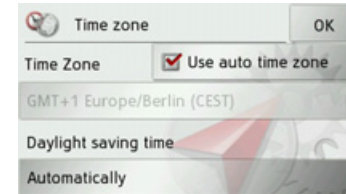
The Time button



You can select the time zone relevant for your location in the **Time** settings window. This setting is important for the correct calculation of the estimated time of arrival.

→ Press **Time** in the settings menu.



The **Time** settings window appears.



Using the button next to **Time zone** you can set whether the time zone should be set automatically by Traffic Assist or not (automatic mode on  automatic mode off .

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If the automatic function is switched off, you can select the desired time zone by pressing the button below **Time zone**.

Pressing the button below **Daylight saving time** allows you to select whether daylight saving time should be set automatically by Traffic Assist or whether you switch daylight saving time on and off yourself.

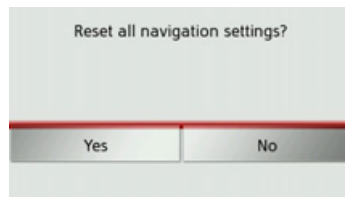
The Reset button

You can reset the navigation settings to their factory settings.

The settings will then be reset. The fast access mode data, stored routes and home address are retained.



→ Press the **Reset** button.



→ Press the **Yes** button.

The navigation settings are reset to their factory settings.

Traffic announcements using TMC

Provided the charger cable for the cigarette lighter is connected to the integrated TMC antenna, your Traffic Assist can receive traffic announcements from radio stations.

Note:

TMC is not available in all countries (currently only Belgium, Germany, Denmark, France, Italy, the Netherlands, Austria, Sweden, Switzerland and Spain).

Traffic announcements are transmitted by radio stations via the TMC (Traffic Message Channel) in addition to the radio programme and are received and analysed by the navigation system. Receiving traffic announcements is free of charge.

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Note:

As the traffic announcements are transmitted by radio stations, we cannot assume responsibility for the completeness or accuracy of the announcements.

Austria: The location and event code was made available by ASFINAG and BM-VIT.

The Traffic Assist constantly checks whether there are any relevant announcements for the route that has been set. All traffic problems that have been received are shown on the map.

If the continuous checks determine that a traffic announcement is relevant to route guidance, the unit can automatically recalculate a new route to the destination (See “The TMC button” on page 52.)

Displaying TMC messages on the map

Current TMC messages are displayed on the map graphically. Sections of the route where there are traffic problems are highlighted blue. Arrows indicating the traffic direction which is affected by the traffic problem continue to be displayed.

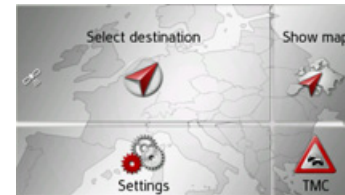
In addition to the coloured mark, a warning sign is displayed on the stretch of road affected.



Using TMC

Once you have connected the TMC antenna, your Traffic Assist will receive current traffic announcements and dynamic route calculation will be enabled (traffic jam diversion). You can also view traffic announcements directly.

Settings for TMC can be made as described under “The TMC button” on page 52.



→ In the main menu, press **TMC**.



The message list appears.

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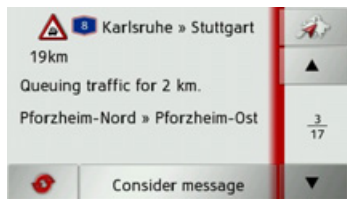
You can scroll through the list using the arrow keys   on the right-hand edge of the screen.



The road number (motorway, A-road or district roads), the distance as the crow flies from your current position, the section of road with traffic direction, if applicable, and the type of problem are displayed in each traffic message.


If a TMC message lies on your route, the message is indicated by the sign .

Reading a message

→ Press on the desired message in the list. The message display appears.

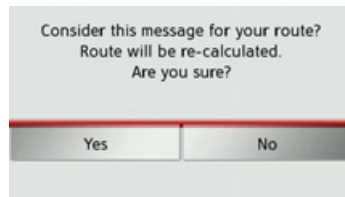


→ Press the arrow buttons   to scroll in the messages.

→ Press the  button to return to the message list.

To update the display of the announcements, press .

If a message lies on your route as shown in the example, by pressing the **Consider message** button you can process this message.



If you wish to recalculate the route, press the **Yes** button.

The route is recalculated and, if possible, a detour is calculated.

If you wish to cancel the change, you can call up the relevant message again and then press the **Ignore message** button.

Another prompt will appear, which you must reply **Yes** to. The route is then recalculated without taking into account the message in question.



Display the relevant road in the map

→ Press the  button in the message display.

The relevant road can be seen in the map.



By pressing the **List view** button you can return to the message display.

You can use the  and  buttons in the bottom line to scroll through all the messages in the message list and show them on the map.

Using the **Consider** button you can determine for each message whether the stretch of road to which the message relates will be avoided in the route calculation.

If you have blocked a stretch of road (**Consider**) you can remove this block by pressing the **Ignore** button.

Taking announcements into consideration when calculating routes

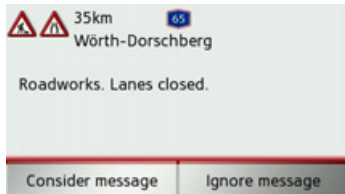
Your Traffic Assist can take traffic announcements into consideration when calculating a route. You have the option of setting this function to automatic, manual or never under “The TMC button” on page 52.

Automatic recalculation

If the traffic on your route is obstructed, the Traffic Assist checks whether an expedient detour of the obstruction is possible. If an expedient detour is possible, then an alternative route is calculated and you are guided via the alternative route.

Manual recalculation

If a traffic announcement affects your route, a window with detailed information on the traffic announcement appears.



If you wish to calculate a detour around the traffic problem, press **Consider message**, or alternatively **Ignore message**.

Note:

When you select **Consider message**, then an alternative route is not generally calculated. This only occurs if it is expedient with regard to saving time and the distance to be driven.

You can change the setting selected again at any time in the message list.

If after the selection of **Consider message** the Traffic Assist determines that an expedient alternative route is possible, the following display appears.

Note:



This display may also appear if, for instance, a previously obstructed route is now free again.



The display provides you with an overview of the alternative route calculated.

The red route or route marked blue for an obstruction shows the previous route. The route marked yellow displays the alternative route calculated.

In the right section of the display, you can see how much the route changes and how much time you will likely save if you use the alternative route.

→ Now press the  button, to use the alternative route or the  button to keep the previous route instead.

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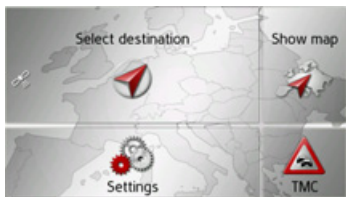
→ SK

The map display

The map display is used primarily for route guidance. However, you can also use the map display without route guidance to show your current position and, for example, to receive warnings about exceeding the speed limit.

Calling up the map display

The map display is called up automatically when you start route guidance. Without route guidance, you can call up the map display from the main menu.



→ In the main menu, press **Show map**.

The map display will then appear and, if GPS reception is available, will show your current position.

If route guidance is already active, the map will be displayed with route guidance.

Structure of the map display

The start depends on which settings were made in “Switching the view” on page 69 and whether or not route guidance is active.

Map display without route guidance



If the navigation is not active, almost the whole area of the touch screen will be taken up by the map.

- ① Speed limit on the road currently being driven on (display not available for all roads)
- ② Zoom buttons

- ③ Information box showing compass, vehicle speed and altitude above sea level
- ④ Charging level
- ⑤ Button for calling the options
- ⑥ Vehicle position
- ⑦ Current road

Map display with route guidance



- ① Speed limit on the road currently being driven on (display not available for all roads)
- ② Zoom buttons
- ③ Information box showing compass, vehicle speed and altitude above sea level
- ④ Charging level
- ⑤ Button for calling up the options

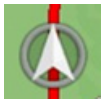
- ⑥ Traffic lane recommendation (only appears on some multi-lane roads; black arrows = recommended lanes)

Note:

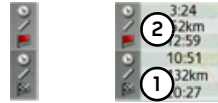
Following the traffic lane recommendations allows you to perform the next driving manoeuvre without changing lanes.

- ⑦ Vehicle position
- ⑧ Current road, or road to which the next driving manoeuvre leads
- ⑨ Distance to next driving manoeuvre
- ⑩ Display TMC setting
- ⑪ Next driving manoeuvre
- ⑫ Estimated time of arrival, remaining journey time and remaining distance to destination

When navigation is active, your current position is displayed on the map via the position icon.



On the left of the screen, you can show or hide the information (estimated time of arrival, remaining journey time and remaining distance to destination/waypoint) to the main destination ① and to the waypoint ②. The left-hand screen section shows the hidden information.



The information box at the right edge of the display shows a compass, your current speed and the altitude above sea level. The information box can be turned on and off, as described under “The Map info button” on page 52 .



Information is also displayed in the bottom left corner in the preview area.



The next manoeuvre is displayed as an arrow, with a distance indication underneath it. If two driving manoeuvres are to be performed in succession within a short time, another smaller arrow indicating the second driving manoeuvre is displayed above the first arrow.

You can adjust the volume of the navigation announcements by pressing the preview area (See “Changing the announcement volume” on page 64.) You can also switch from route guidance with map display to arrow display.

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The symbol below is displayed on the left of the preview area if there is a TMC announcement along your route.



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Divided screen with route guidance



- ① Speed limit of the road currently being driven on (display is not available for all roads)
- ② Zoom buttons
- ③ Vehicle position
- ④ Charging level
- ⑤ Button for calling the options
- ⑥ Lane recommendations (only to be seen for certain multi-lane roads, black arrow = recommended lanes)

- ⑦ Next driving maneuver
- ⑧ Info box with compass, vehicle speed and position height above sea level
- ⑨ Current road or road to which the next driving maneuver leads
- ⑩ Distance to the next driving maneuver
- ⑪ Bar display to illustrate the distance to the next driving maneuver
- ⑫ Display TMC status
- ⑬ Estimated time of arrival, remaining travel time, and remaining distance to the next destination.

Note:

If you follow the lane recommendation, the next driving maneuver is possible without changing lanes.

Route guidance with arrow display

You can start up route guidance with just arrows from the route guidance with map display.

Note:

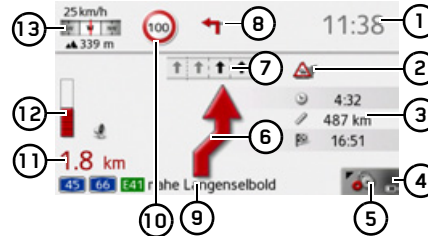
The route guidance with arrow display may also be switched on as described in “Switching the view” on page 69.



→ Press the preview area.



→ Press the button with the arrow icon.
The display will change to arrow display.



- ① Current time
- ② Display TMC status
- ③ Estimated time of arrival, remaining travel time, and remaining distance to the next destination.
- ④ Charging level
- ⑤ Switching to map display
- ⑥ Next driving maneuver
- ⑦ Lane recommendations (only to be seen for certain multi-lane roads, black arrow = recommended lanes)

Note:

If you follow the lane recommendation, the next driving maneuver is possible without changing lanes.

- ⑧ Driving maneuver after the next
- ⑨ Current road or road to which the next driving maneuver leads
- ⑩ Speed limit of the road currently being driven on (display is not available for all roads)
- ⑪ Distance to the next driving maneuver
- ⑫ Bar display to illustrate the distance to the next driving maneuver
- ⑬ Info box with compass, vehicle speed and position height above sea level

By pressing the button or ⑤ you can leave the arrow display.

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Using the map display

Repeating the last announcement

During route guidance, the system announces important information, e. g. the next driving manoeuvre. The last announcement can be repeated with updated information.



→ Press the preview area while route guidance is active.

The last announcement is repeated with updated information. The volume is also displayed.

Changing the announcement volume



The volume of announcements can be adjusted.




→ Press the preview area while route guidance is active and the toolbar deactivated.




The bar display indicates the volume.

→ Press  or  to increase or decrease the volume.

→ Press  in order to mute the announcements.

The button will now have a red border.

→ Press  again in order to cancel the mute function.

Warning.


Always adjust the volume so that you can still hear any ambient noise while driving.


The bar display disappears again automatically after a short while if no button is pressed.

Map zooming

The map can be zoomed into in steps via the zoom buttons.

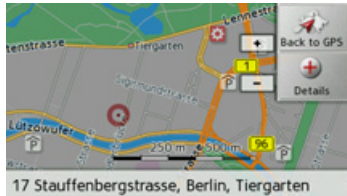


→ Press zoom in  to “zoom in on the map” and therefore to get closer to the details displayed.

→ Press zoom out  to “zoom out from the map” and therefore to obtain a larger overview.

Moving the map

You can move the map to any point.
→ To do this, press the map briefly.



→ Then press any point on the map and move it in the required direction.
The map is then moved accordingly.

Note:

By pressing the **Back to GPS** button you can display your current position again.

You can also select a point as a destination, as described under “Selecting a destination from the map” on page 43.


Map display options

In the map display options, you can change the settings for route guidance, the map display and the route.



On the map display, press the button on the bottom right.



This brings up the options menu for the map display.
The **Guidance**, **Map** and **Route** buttons are now available. Selecting one of these menu options will display more buttons to call up the various settings.
You can also use the  button to switch the display into and out of night mode.

Guidance button:



The following options are available:

- Cancel route guidance.
- Enter/delete a waypoint.
- Display the entire route.
- For several destinations (route planning), display a destination list or skip the next destination.

Map button:



The following options are available:

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- Switch between 2D and 3D map display.
- Change the zoom steps and the map angle in 3D mode.
- Orientating the map and changing the zoom increments in 2D mode.
- Display the current position.

Route button:



The following options are available:

- Select a POI on the route.
- Display TMC messages located on the route.
- Block a route ahead.
- Change the route options.

Cancel route guidance

You can cancel active route guidance.

→ Open the options menu for the map display.

→ Press the **Guidance** button.

→ Press the **Stop guidance** button.

This cancels route guidance to all destinations.

Note:

You can also cancel route guidance as described in “The main menu” on page 23.

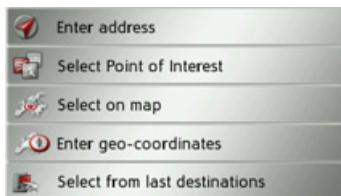
Enter/delete waypoint

With this function, you can enter a waypoint or delete an entered waypoint.

→ Open the options menu for the map display.

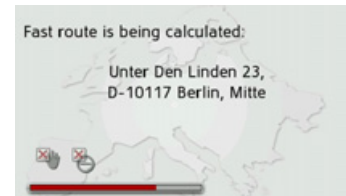
→ Press the **Guidance** button.

→ Press the **Add stopover** button.



You can now enter a destination as a waypoint as described under “The destination input menu” on page 34 (**Enter address**, **Select Point of Interest**, **Select on map** or **Enter geo-coordinates**). You also have the option of quickly selecting a destination using the **Select from last destinations** button.

Once you have entered the desired waypoint, the route is recalculated.



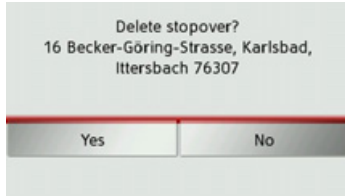
The entered waypoint is marked on the map with a yellow flag.

Deleting a waypoint

→ Open the options menu for the map display.

→ Press the **Guidance** button.

→ Press the **Delete stopover** button.

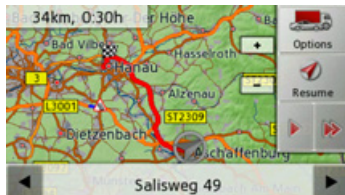


→ Press the **Yes** button.
The waypoint is deleted.

Displaying the entire route

You can display the entire route to the destination on the map. You also have the option of viewing the complete set of directions.

- Open the options menu for the map display.
- Press the **Guidance** button.
- Press the **Show route** button.



The entire route is displayed.

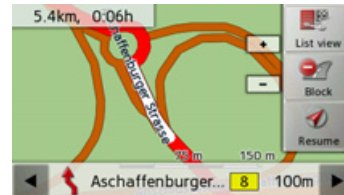
You can set the route options by pressing the **Options** button.

By pressing the or button you can simulate the entire route quickly or slowly. You can stop the simulation by tapping the screen.

You can use the and buttons in the bottom line to scroll through all the directions.

Directions

→ With the entire route displayed, press the button.



The first point in the directions is displayed on the map.

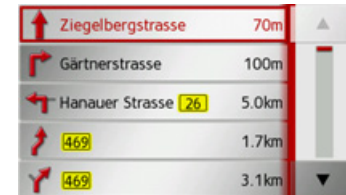
You can use the and buttons to scroll through all the directions.

To block individual route sections, select **Block**. The Traffic Assist then calculates a sensible diversion to avoid the blocked section.

Note:

If the route section is more than 10 kilometres long, you can choose, in another menu, whether to block the entire section or just part of it.

You can also display a list version of the directions by pressing the **List view** button.



→ Press the arrow buttons on the right of the screen to browse through the list.

If you press an entry in the directions, it will be displayed on the map.

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Displaying the destination list

If a planned route with a number of destinations is active, you can display the entire route with all the destinations on the map or in a list.



→ Open the options menu for the map display.



→ Press the **Guidance** button.

→ Press the  button.



The planned route is displayed on the map.

By pressing the  or  button you can simulate the entire route quickly or slowly. You can stop the simulation by tapping the screen.


You can use the  and  buttons in the bottom line to scroll through the individual stages in the route. As you scroll, each stage is shown.

You can block the displayed stage by selecting **Clear form**.

Press **List view** to display the stages in the route as a list.



The individual stages in the route are displayed as a list. To return to the route guidance, press the top button.

To edit one of the stages, press the  button next to the stage.

The following options are then available:

- Use **Show details** to display information regarding the selected stage.
- Use **Move up** and **Move down** to change the order of the stages.
- Use **Delete stage** to delete the selected stage.
- Use **Start guidance** to start guidance for the selected stage.

Skipping destination

If a planned route with several destinations is active, you may delete the current destination of the route. Route guidance to the next destination is then started.

This may be necessary if a destination was not driven to directly. The Traffic Assist otherwise tries to guide you to the current destination.

→ Call up the options menu for the map display.

→ Press the **Guidance** button.

→ Press the  button.

Route guidance to the next destination is started.

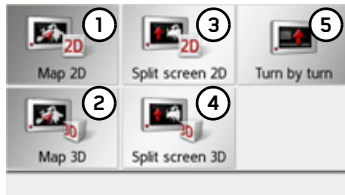
Switching the view

You can switch the map display between 3D or 2D display, a split screen with 3D or 2D display or the arrow display.

→ Call up the options menu for the map display.

→ Press the **Map** button.

→ Press the **Map view** button.



→ Select the desired view.

The following illustrations show the respective result for each selection.



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Changing zoom steps and map angle

You can choose which zoom steps the map should be changed to when the next manoeuvre is approaching. You can also set the map angle in 3D mode.

→ Open the options menu for the map display.

→ Press the **Map** button.

→ Press the Orientation button.



Depending on the current display (3D view ① or 2D view ②) the settings options are different.

If you have changed the settings, press **OK** to save them.

To reset the options to the basic setting, press the **Default range** button.

To leave the settings menu without making any changes, press the button.

Setting options

You can select the areas where the displayed map should be zoomed. This setting can only be changed if the Autozoom function is turned on.

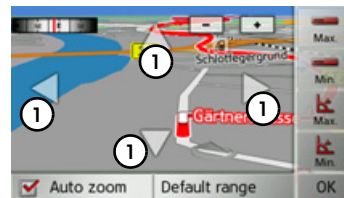
→ Press the button to select the smallest desired zoom step.

→ Press the button to save the setting.

→ Press the button to select the largest desired zoom step.

→ Press the button to save the setting.

In the 3D display, you can set the angle of inclination of the map display. This setting can only be changed if the Autozoom function is turned on.



→ Use the arrow buttons ① to set the desired maximum angle of inclination.

→ Press the button to save the setting.

→ Use the arrow buttons ① to set the desired minimum angle of inclination.

→ Press the button to save the setting.

Changing the orientation of the map (2D)

You can select whether the map should always be orientated to the direction of travel, or to the North.

Note:

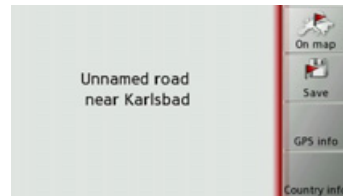
This function is only available in 2D mode.

- Open the options menu for the map display.
 - Press the **Map** button.
 - Press the **North up** or **Heading up** button.
- The display of the map will change accordingly.

Displaying current position

You can display your current position and store this position. You can also display information concerning the current GPS reception and the current country.

- Open the options menu for the map display.
- Press the **Map** button.
- Press the **Position info** button.



The current position is displayed. If possible, an address is displayed. If no address is available for the current position, the geographic coordinates are displayed.

You can return to the map using the **On map** button.

By pressing **Save** you can store your current position in the fast access list.

By pressing the **Country info** button you can display country-specific information such as the maximum permitted speed for the country you are currently in.

By pressing **GPS info** you can view information regarding the GPS reception.



You can see how many satellites are being received, and whether the satellite reception is good enough for navigation. The current time and the geographic position are also displayed.

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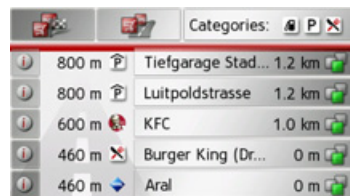
Point of interest on the route

During route guidance, you can display the points of interest located on the route. You can specify which categories of points of interest should be displayed, and you can also choose whether to display only the nearest POIs, all the POIs on the entire route, or only POIs near the destination.

→ Open the options menu for the map display.

→ Press the **Route** button.

→ Press the **POI on route** button.



The nearest points of interest for the three selected categories are displayed.

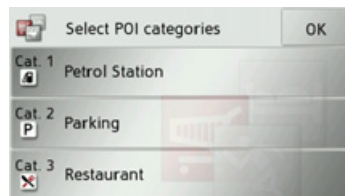
The first distance indicated shows the distance to the point of interest. The indication on the right shows the detour required to reach the point of interest.

The symbols on the right let you see at a glance if the detour for driving to the respective point of interest is small (🚗), medium (🚗) or large (🚗).

Press one of the points of interests to start route guidance to it. To display information regarding the point of interest, press the button next to it.

Setting categories

→ Press the **Categories:** button.



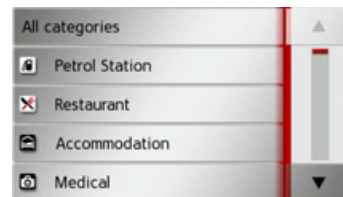
→ Press the button for the category you wish to change.

→ Then select the desired category.

→ Confirm your changes by pressing the **OK** button.

Point of interest near destination/on entire route

→ In the point of interest on the route menu, press the button to show POIs near the destination, or the button for POIs on the entire route.



→ Select the desired category.

→ Then select the desired point of interest. Route guidance to the selected point of interest is initiated.

TMC on the route

You can view and edit TMC messages located on your route.

Note:

Also displayed are the TMC messages that have led to a change in the route.

- Open the options menu for the map display.
- Press the **Route** button.
- Press the **TMC on route** button.



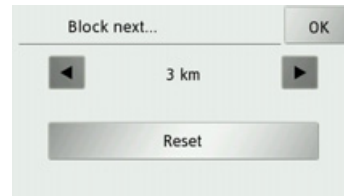
The TMC messages located on your route are displayed.

Once you have selected a message you can decide e.g. whether or not to divert around the hold-up. Please also refer to the description in “Traffic announcements using TMC” on page 56.

Block route

You can block a stretch of road ahead. This determines a certain stretch of road that should not be used. Traffic Assist then attempts to calculate a diversion.

- Open the options menu for the map display.
- Press the **Route** button.
- Press the **Block** button.

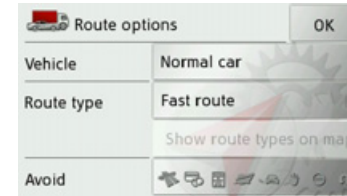


- Select the length of the desired block using the ◀ and ▶ buttons.
- You can cancel the block by pressing the **Reset** button.
- Confirm your selection by pressing the **OK** button.
- The route is recalculated.

Changing route options

You can modify the route options (route selection etc.) during route guidance.

- Open the options menu for the map display.
- Press the **Route** button.
- Press the **Options** button.



- Set the route options as described under “The Route options button” on page 49.
- After a change, the route is recalculated.

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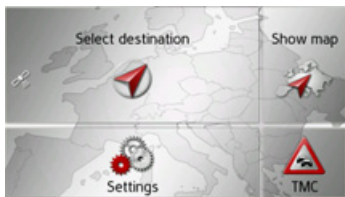
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Selecting system settings

You can change various basic settings for all applications on the Traffic Assist.



→ In the main menu, press **Settings**.



→ Press **System settings**.

The system settings menu is displayed.

The system settings menu



You can select the various settings options from the system settings menu.




Operation

Selection options

Select the desired menu item by pressing the appropriate button. The functionality of the buttons varies depending on the selection and is described under “The individual menu items” on page 75.

You can go to the next or previous page of the settings by pressing the  and  buttons.

Closing the settings menu

Press  to close the settings menu.

The individual menu items

Battery

Your Traffic Assist may be operated using an external power supply unit or an integrated rechargeable battery.

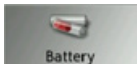
Note:

The current charging state is important when operating with a battery. If the battery is low on power, it may not be possible to continue navigation right to the destination.

The energy supply and status are shown on a display.

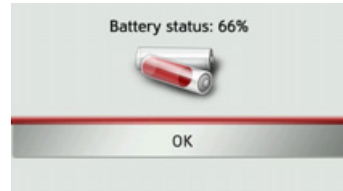
Displaying the power supply

You can call up the status display using the following button.



→ Press the **Battery** button.

The status display appears and shows the power supply.



The power level is shown in the charge display. In the example, the battery still has around two-thirds charge.

The charging operation is indicated by the mains socket symbol in the status display.



Closing the status display

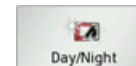
Pressing the **OK** button closes the status display and shows the settings menu.

Day/night display

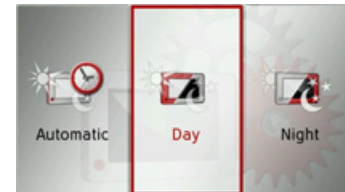
You can set the Traffic Assist display to day, night or automatic.

The automatic setting changes automatically between day and night display depending on the time, the current position and the time of year.

You can call up the setting using the following button:



→ Press the **Day/Night** button.



→ Select from **Automatic**, **Day** and **Night**.

The desired function is activated and the system settings are displayed.

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Calibration

If the touch screen responds incorrectly when buttons are pressed, it needs to be calibrated.

Starting the calibration

You can start the calibration using the following button:



→ Press the **Calibration** button.

The calibration procedure will be started.

You will be guided through the procedure by means of text instructions.

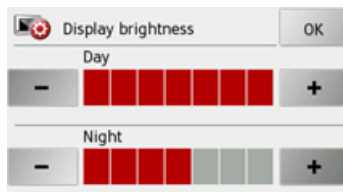
Brightness

You can set the brightness of the display separately for day and night display.

With the following button, you may call the setting:



→ Press the **Brightness** button.



→ Use the **-** and **+** buttons to set the desired brightness for the day and night display.

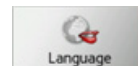
→ Confirm your settings by pressing the **OK** button.

Language

The texts on the touch screen can be displayed in a variety of languages.

Opening language selection

You can choose between the various languages using the following button:



→ Press the **Language** button.

The language selection appears.



The language selection shows the available languages in a list several pages long. Each list field is in the form of a button. Each button is labelled with the language name and the associated national flag.

Scrolling

Using the ▲ ▼ buttons, it is possible to scroll through the list in the direction of the relevant arrow.

Selecting the language

→ Press the button for the required language.

→ The selection is confirmed by pressing **OK**.

A prompt appears indicating that the software has been re-started, and you are asked whether you really want to change the language.

→ Confirm the prompt using **Yes**.

Cancelling the language selection

Pressing the 🚫 button cancels the language selection and shows the settings menu.

Automatic on/off

The Traffic Assist can switch automatically to sleep mode when the vehicle ignition is switched off.

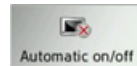
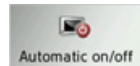
Prerequisite:

- The Traffic Assist must be connected to the vehicle cigarette lighter (see also page 17).
- The cigarette lighter is de-energized after the ignition is switched off.
- The relevant function can be switched on at the Traffic Assist.

Switching the function on / off

→ Press the **Automatic on/off** button.

Depending on the previous setting, the function will be switched on or off. The current setting is shown by the icon.



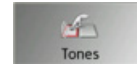
- Left icon: The function is switched on, the Traffic Assist switches off automatically.
- Right icon: The function is switched off, the Traffic Assist does not switch off automatically.

Sounds

You can switch the Traffic Assist signal tone on and off. This also includes the clicking of the touch screen buttons.

→ Press the **Tones** button.

Depending on the previous setting, the signal tones are switched on or off.



- Left icon: Tones switched on
- Right icon: Tones switched off

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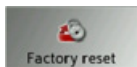
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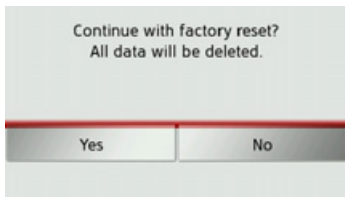
Factory settings

You can reset your Traffic Assist to the factory settings.

The following updated data is deleted: stored destinations, stored routes, and home address.



→ Press the **Factory reset** button.



→ Press the **Yes** button.

The Traffic Assist is reset to the factory settings.

Information

The following button displays information regarding the Traffic Assist.



→ Press the **Information** button. The information display appears.



Note in particular the product designation and the software version. Always quote these details in enquiries to the service provided by Harman/Becker.

The **Map version information** button displays information relating to the installed map data.

GMT

(Greenwich Mean Time)

Central European Time

The standard time at 0 degrees of longitude (the longitude which passes through Greenwich, Great Britain). This time is used worldwide for the synchronisation of data collection.

GPS

(Global Positioning System)

GPS determines your actual geographical position by the use of satellites. It is based on 24 satellites which orbit the Earth and emit signals. The GPS receiver receives these signals and calculates the distance to each satellite from the running time differences and thus evaluates its actual current position in terms of geographical length and width. In order to determine the position, signals from at least three satellites are required, and the fourth one allows the height to be determined.

SD Card

(Secure Digital)

The Secure Digital Card was developed in 2001 by SanDisk on the basis of the older MMC standard. An SD card is a re-writable change-over storage card.

Stylus

A stylus is an input pointer which is used for the operation of touch-screens, mobile phones or PDAs.

The stylus consists basically of a plastic pointer with a softer plastic core. The sleeve is hard and can be gripped and the softer core emerges at the tip and is designed to touch the screen as softly as possible (i.e. without the danger of scratching the screen).

The stylus is more accurate than operation using the fingers, since only the thin tip touches the screen. In addition, dirty marks on the screen caused by finger prints are avoided.

TMC

(Traffic Message Channel)

Traffic announcements transmitted by most FM stations via RDS. Basis for dynamic navigation.

USB

(Universal Serial Bus)

The Universal Serial Bus (USB) is a bus system for interconnection of a computer with external USB peripherals for the exchange of data.

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TECHNICAL DATA

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- **Dimensions:**
(W x H x D) in mm 125 x 82,5 x 17,7
- **Weight:**
190 grams
- **Processor:**
400 MHz Processor CISC-architecture
- **Screen:**
10.92 Centimeters 16:9
Touch-Screen with 24 Bit colour depth
16,7 Mio Colours
Low reflection values
- **Storage:**
2 GB Flash Storage
64 MB SD-RAM
- **Micro SD Card Reader:**
Support up to 4 GB
FAT 32 formatted
- **USB Interface:**
USB Client 2.0
MINI USB

- **Headphone output:**
3.5 mm Stereo Socket
- **1 Internal speakers:**
2 Watt max.
- **Power supply voltage:**
LPS (Limited Power Source)
5 Volt / 1A via USB connection
- **AC Adapter (not included):**
100 - 240 Volt
0.2 Ampere
50 - 60 Hz
Output Voltage 5Volt

Dear customer,

In conformance with current EC guidelines, any person may operate this unit. This unit conforms to the current valid European or harmonised national standards. This designation is your guarantee that the unit conforms to the applicable specifications regarding electromagnetic compatibility. This means that interference with other electrical/electronic devices caused by the unit, or interference with this unit caused by other electrical/electronic devices, is largely prevented.

The EC type-approval mark (E13) issued by Luxembourg's Road Traffic Registration Authority in accordance with European Directive ECE-R10 governing the EMC of motor vehicles in its current version authorises installation and operation of the unit in motor vehicles (classes L, M, N and O).

EU Declaration of Conformity

Harman/Becker Automotive Systems GmbH declares herewith that Traffic Assist conforms to the basic requirements of the applicable EU guidelines and in particular conforms to the basic requirements and the other relevant regulations of the R&TTE Directive 1999/5/EU.

You can find a comprehensive EU Declaration of Conformity on our website <http://www.mybecker.com> under the "Downloads" area for the respective product.



Z107/Z108/Z109



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Z905



10 R - 03 9919

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Disposal of the unit

Customer information on the disposal of electrical and electronic devices

(private households)

In accordance with the self-imposed principles of Harman/Becker Automotive Systems GmbH, the product has been developed and made from high-quality, recyclable materials and components.

This symbol on the product and/or accompanying documents means that at the end of their life electrical and electronic products must be disposed of separately from domestic waste.

Please take these products to communal collecting points or recycling centres for processing and salvage of materials. The units will be accepted there free of charge.

The proper disposal of this product helps protect the environment and prevents harmful effects on humans and the environment which could result from improper handling.

More detailed information on the nearest collecting point or the nearest recycling centre can be obtained from your local council.

For commercial customers in the European Union

Please contact your dealer or supplier if you would like to dispose of this electrical/electronic equipment.

Information on disposal in countries outside of the European Union

This symbol is only valid within the European Union.



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Disposal of the battery

Duty to supply information according to battery legislation (BattV)

Batteries must not be disposed of in household waste. It is the duty of the user to return used batteries. Please only dispose of batteries via specialised dealers or at battery collection points. In this way, you make a positive contribution to environmental protection.

Since 1998, German battery legislation obligates all citizens to dispose of used batteries exclusively via the retail or at collection points specially equipped for this purpose (statutory obligation to return). It is the duty of the retail and of manufacturers to take back these batteries free of charge and to correctly recycle them or to dispose of them as hazardous waste (statutory obligation to take back). If you wish to return your batteries to us, please send them, with adequate postage, to the following address:

Harman/Becker Automotive Systems GmbH
 - Battery recycling -
 Becker-Göring-Straße 16 16
 D- 76307 Karlsbad- Ittersbach

The lithium ion battery in the Traffic Assist is marked with the adjacent symbol, consisting of a crossed-out waste bin, and the type of battery used.



Removing the battery

Before you hand in your old unit for disposal, the battery must first be removed.

Note:

Please note that in following the removal instructions for the battery described here, your unit may be **destroyed**. You should only remove the battery if your unit is old and is to be handed in for disposal.

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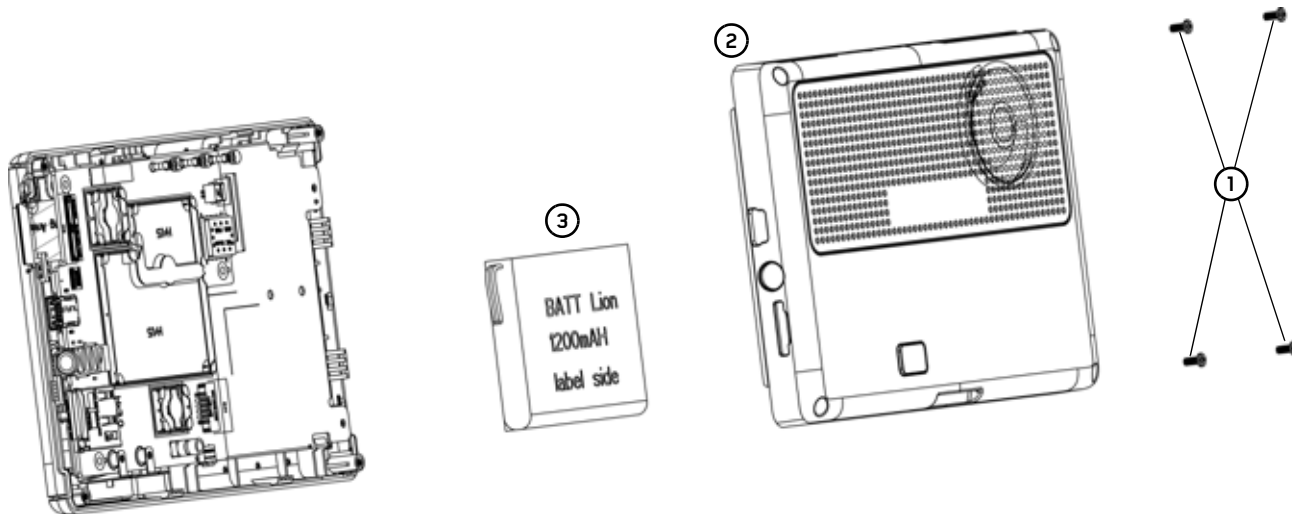
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→ Completely discharge the battery (leave the unit switched on with no power supply until it automatically switches off).

→ Unscrew and remove the 4 housing screws ① using a small cross-slot screwdriver.

→ Lever off the rear of the housing using a flat-blade screwdriver (levering at the slits at the side of the housing). ②

→ Lever off the battery (bonded to the circuit board) using a flat-blade screwdriver. ③

→ Pull out the plug of the battery connecting cable.

Note:

Do not reconnect a unit that you have opened to the power supply.