User's Guide Installation Guide



810 car phone



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English

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For your safety

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this user's quide.



OFF MODE

If wireless phone use is prohibited or when it may cause interference or danger, switch your car phone over to off mode. To do so, with ignition on, press and hold 🛋.



ROAD SAFFTY COMES FIRST

Remember that the safety of operating a motor vehicle in traffic requires the full attention of all motorists. Only use your car phone if traffic conditions permit safe use and check if local laws/regulations restrict the use of mobile phones while driving.



INTERFERENCE

All wireless phones may get interference, which could affect performance.



OFF MODE WHEN REFUELLING

Switch your car phone over to off mode at a refuelling point. Don't use near fuel or chemicals.



OFF MODE NEAR BLASTING

Switch your car phone over to off mode where blasting is in progress. Observe restrictions, and follow any regulations or rules.



QUALIFIED INSTALLATION AND SERVICE

Only a qualified professional may install or repair phone equipment.

CONNECTING TO OTHER DEVICES

When connecting to any other device by cable or using Bluetooth wireless technology, read the relevant user's quide for detailed safety instructions. Do not connect incompatible products.

EMERGENCY CALLS

Ensure the phone is switched on and in service.

- ▶ Press and hold *C* until Make an emergency call? is shown on the display. Confirm by pressing
- ► Confirm the security inquiry Yes by pressing 🕀 or cancel by selecting No with 🛤 and pressing 🚸. Give your location. Do not end the call until told to do so.



CALLING

Ensure that the car's ignition is on. Select the desired phone number or enter the phone number, including the area code, then press \mathscr{C} . To end a call, press \Im . To answer a call, press C.

ANTENNA



In order to comply with RF exposure requirements for mobile transmitting devices, a minimum distance of 20 cm must be maintained between the antenna and all persons

Network services



FUSE REPLACEMENT

Replace a blown fuse with a fuse with of the same type and size. Never use a fuse with a higher rating!

Network services

The wireless phone described in this guide is approved for use in the GSM 900 and GSM 1800 networks.

A number of features included in this guide are called Network Services. These are special services that you arrange through your wireless service provider. Before you can take advantage of any of these Network Services, you must subscribe to them through your service provider and obtain instructions for their use from your service provider.

Some networks may not support all language-dependent characters and/or services.

About accessories

\triangle Warning! _

Use only accessories approved by the phone manufacturer for use with this particular phone model. The use of any other types may invalidate any approval or warranty applying to the phone and may be dangerous.

For availability of approved accessories, please check with your dealer.

1. General information

Overview of the car phone and equipment

Your car phone is made up of several components, which are described below:



Car phone equipment

1. Radio unit TFE-4R

The radio unit is a GSM 900 / 1800 car telephone with Bluetooth wireless technology which allows a compatible external GSM antenna and compatible external devices to be connected either wireless over Bluetooth technology or using an RS232 adapter cable. 2. Display XDW-1

The separate display comes with generously sized, easy-toread fonts, convenient user-customisable display positioning and automatic backlighting that is configurable for day- or nighttime use.

3. Handset HSU-4

The handset comprises a set of function elements (keys and Navi[™] wheel), alphanumeric keypad, microphone, and earpiece.

The handset is specially designed so that accessing key telephone functions is made simpler for the user, allowing intuitive operation.

4. Loudspeaker SP-2

A separate loudspeaker is provided for top-quality audio transmission of the acoustic signals from your car phone and voice transmission when calls are made. Should you wish to use the loudspeakers belonging to your car radio instead, please ask the service technician who is to install your car phone for professional assistance as the car phone may not be compatible with your system.

5. Microphone HFM-8

The handsfree microphone supplied in the sales package has been tailormade for the vehicular environment. State-ofthe-art technologies geared for effective echo and noise suppression in automotive systems enable quality results even in poor conditions. Selecting a suitable mounting location may also enhance the performance of the device. See Installation on page 49.

6. System cables PCU-4

A set of cables is included for connection to the power supply and the ignition system and to mute the radio.

7. GSM antenna (not included in the scope of supply)

Connecting the radio unit to a compatible external GSM antenna will allow optimum wireless performance of the car phone.

8. RS232 cable AD-3

An RS232 adapter cable provides a convenient way to connect your car phone to the serial port of a compatible laptop computer.



Car phone equipment and cable connections

Special features

For enhanced safety and operating comfort of wireless communication in the vehicular environment, this car phone is equipped with a variety of special features tailored for automotive applications. A number of these extras are sketched below:

Voice dialling



Voice dialling is a convenient way to select certain numbers from the phone book, which are then automatically dialled. You may choose as many as 15

of your phone book entries and train voice tags to initiate a phone call. To make a voice call from the standby display, just press the \Box key on the handset and speak the desired voice tag.

Before you can use this feature you will have to record voice tags for numbers stored in the car phone's phone book. For further information, see Voice dialling on page 18 and Voice dialling on page 37.

Voice commands



You have a selection of phone functions which can be activated by saying a voice command. As many as three voice tags for the voice commands can be added.

You can activate the voice command in the same way as making a call by using a voice tag. From the standby display, press the \Box key on the handset and speak the voice command for the desired function.

Before you can use this feature you will have to record command tags for the desired functions in the car phone. For further information, see Voice commands on page 38.

Voice recorder



This feature acts as a dictaphone, allowing you to record personal voice memos. You may make up to 10 recordings for a total of 4 minutes'

recording time. To start recording from the standby display, press and hold the \bigcirc key on the handset. To play a recorded speech memo select the option Play in the record menu.

Copying phone book entries from your mobile



If you have a compatible mobile phone that supports Bluetooth technology, this feature allows you to copy phone book entries from the mobile to the car phone.

To download the phone book from your compatible mobile, you may either use a personal voice command (e.g. Copy phone book!) or select the option Download contacts? in the User data menu. For further information, see User data on page 43.

To be able to use this feature, you will first need to pair the mobile phone and the car phone via Bluetooth wireless technology. For further information, see Bluetooth wireless technology on page 41.

Multi-user capability



This feature lets you store personal entries or phone settings under two different user data profiles. For example, now phone book entries, voice tags for

voice dialling and voice commands or ringing tones for two users can be saved and then accessed from the car phone using the same SIM card. Just activate your personal user profile to access your data.

Switchover to wireless headset



This feature supports use of compatible headsets with Bluetooth technology. You can switch calls over from handsfree mode where the car phone's microphone

and loudspeaker system is used to a wireless headset that is comfortable and easy to use. Press the d key on the car phone handset to switch incoming or ongoing calls over to your wireless headset.

To be able to use this feature, you will first need to pair the wireless headset and the car phone via Bluetooth wireless technology. For further information, see Bluetooth wireless technology on page 41.

Quick access to the phone book



A phone book shortcut feature has been provided to make it easier for you to find a desired phone number and make a call.

- ► To find a particular phone book entry, in the standby display scroll with A to the first letter of the name as entered in the phone book and press A.
- ► Scroll with 🤼 to the desired name and press 𝒫 to dial the number.
- Before you can use this feature you will have to make entries in the phone book. For further information, see Download contacts on page 44.
- You may assign up to 5 phone numbers to any name entered in your phone book. For further information, see Contacts on page 27.

Mobile data communication using Bluetooth wireless technology or via an RS232 cable

Your car phone comes with a convenient feature allowing you to connect compatible external devices such as a laptop computer or compatible vehicle on-board systems to the car phone either wireless through Bluetooth wireless technology or via an RS232 cable.

This means that you can now utilise GSM data services such as GPRS or HSCSD for mobile fax transmissions, Internet access or vehicle fleet services.

SIM card

To operate your car phone, you will need to insert a SIM card in the radio unit. For further information, see Installing the SIM card on page 16.

Comfortable volume regulation with Navi[™] wheel



Regulate the volume of the ringing tone notifying you of an incoming call simply by scrolling with 🤼 as needed.

You can also adjust the loudspeaker volume during an ongoing call with \bowtie .

Before putting your phone into operation

Please read the information set out below before putting your car phone into operation:

The phone is automatically switched on with the car's ignition.

When you switch off your car's ignition, the car phone will not be switched off automatically: it remains in service for the period of time that has been set using the power down timer function. For further information, see Power down timer on page 33.

Check your car phone equipment regularly to ensure that it is correctly mounted and is working properly.

A valid SIM card is required for operation of your car phone. For further information, see Installing the SIM card on page 16.

Stickers in the sales package

The stickers that come with your car phone are important for service and related purposes.

► Attach sticker B to your warranty card.

Access codes required for the SIM card

• PIN code (4-8 digits):

The PIN (Personal Identification Number) protects your SIM card against unauthorised use. The PIN code is usually supplied with the SIM card.

Some service providers may allow you to switch off the prompt, requesting you to enter the PIN at power on.

• PIN2 code (4-8 digits):

The PIN2 code may be supplied with the SIM card and is required to access some functions.

• PUK and PUK2 codes (8 digits):

The PUK (Personal Unblocking Key) code is required to change a blocked PIN code. The PUK2 code is required to change a blocked PIN2 code.

If these codes have not been supplied with your SIM card, please contact your service provider.

2. Your phone

Display

When the car phone is ready for use and no characters have as yet been entered, the **standby display** as depicted in the figure is shown. In addition the logo of the network operator is shown.



Sneak now

If you wish to activate a function using a voice tag, you will first have to call the **voice display**. To do so from the standby display, press



Display indicators

The indicators described below may be shown on the display.



Shows the signal strength of the cellular network at the current location. The higher the bar, the stronger the signal.

Indicates an ongoing call.



M

You have received one or more text messages. Indicates unread text messages.

The call diverting feature is on (network service). See Call divert on page 31.

The home zone service is active (network service).

- 123 You may enter numbers.
 - Turn the Navi[™] wheel to the left.
- S You may speak now.
 - Turn the Navi™ wheel to the right.
- ABC You may enter letters.
- Δ Shows that roaming is active.
- The network has deactivated the encryption function.
- The ringing tone is switched off.
- **(id)** Bluetooth wireless technology is activated, see Bluetooth wireless technology on page 41.
- User profile 1 is in use.
- See Switch user on page 45.
- User profile 2 is in use.
- See Switch user on page 45.

Call indicators

F

Indicates an active voice call.

Indicates that a voice call has been disconnected.

Voice calls have been switched over to the headset.

Data communication is active.

Fax communication is active.

A GPRS connection has been established.

The call is on hold.

General indicators

- Indicates a manual network search.
- Indicates text messages you have already read.
- Indicates a business card is being forwarded.



Ŧ

This setting is active.

Headset volume can be adjusted.

Ringing tone volume can be adjusted.

Loudspeaker volume can be adjusted.

- Daytime display is active.
- Nighttime display is active.

Indicators for recorder functions

- Recorder function is on. ŝ
 - The tape is being played back.

 $\overline{\mathbb{A}}$

Indicators for Bluetooth functions

- Device with Bluetooth technology has been paired with ۹., the car phone.
- Bluetooth wireless technology is activated. ej

Notification indicators

- Indicates that an item has been erased. M
- 500
 - Indicates that your entry is incorrect or not permissible.
- O.K. (confirms a setting or selection made). ر م
 - Indicates additional information.

Indicates a warning or a caution.

Your message is being sent (does not indicate that the \sim message has been received).

Basic components of the handset



The handset consists of the function selectors, the alphanumeric keypad, the microphone, and the earpiece.

Function selectors

The function selectors include four keys and a Navi[™] wheel. Depending on the setting selected, you may choose from the following options:

Press and hold

- the emergency call function is active.
- Press
 - to accept an incoming call.
 - to display the list of the last 10 phone numbers you have called or attempted to call.
 - to start dialling a number.

Press and hold

- to delete text, numbers or other entries.
- to return to the standby display.



- Press
- to end a call.
- to delete a character or number entered.
- to return to the previous menu item or display.

Navi[™] wheel

Turn the Navi[™] wheel to adjust the volume of the ringing tone of an incoming call or the loudspeaker volume during an ongoing call. You can also use the Navi[™] wheel to scroll within a menu.



In the standby display, turn the Navi[™] wheel to the left

- to key in a phone number. If you are in the voice display, turning the Navi[™] wheel to the left will scroll through the voice commands and allow you, for example, to select one to be replayed.
- In the standby display, turn the Navi[™] wheel Ø

to the right

to search for a phone book entry, beginning with A, B, C... If you are in the voice display, turning the Navi[™] wheel to the right will scroll through the voice tags you have

trained for voice dialling a number and allow you, for example, to select one to be replayed.



Press the Navi[™] wheel

to access a function in a particular context:

- to start the menu and select an item.
- to select an item from a list.
- to start options and select an item.

This key activates the following functions from the standby display:

Press to switch off loudspeaker.

An incoming call is indicated by a flashing display.

- Press and hold to put the phone in off mode. ►
- Press to switch incoming or ongoing calls from your car ► phone over to a compatible, paired headset and back as desired.

- This key activates the following voice functions from the standby display:
- **Press** to activate voice dialling and voice commands.
- Press and hold to activate recording (also during ongoing calls).

Alphanumeric keypad

Use these keys to enter numbers 0-9, letters, and other characters. Several characters have been assigned to each key. To enter a character, repeatedly press the related key until you have reached the desired character.

Entering numbers and characters:

- ▶ To enter a number, press and hold the number key for approximately one second.
- ► To call up characters, repeatedly
- To enter a blank space, press m.
- To switch between upper- and lower-case characters, press 01
- ▶ Use the Navi[™] wheel 🤼 to move the cursor in the entered text.

For example, if you wish to enter the letter "C", press we three times. When the flashing cursor appears to the right of the letter entered, you can select the next character to be entered. Repeat these steps until you have completed your entry.

The procedure set out above applies only for entering text.

Caution!

When you have finished using the handset, make sure that it is placed securely in the cradle. A loose handset may cause bodily injury if you have to brake sharply or should have an accident.

3. Getting started

Installing the SIM card

\land Caution! .

Keep all miniature SIM cards out of the reach of small children.

- The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting or removing the card
- Switch off the car's ignition before inserting the SIM card.
- Gently press the catch on the radio unit casing (1) to open and lift the cover (2).



 Slide the SIM card holder (3) as shown to unlock it.



 Open the SIM card holder by lifting it upwards on one side as depicted in figure (4).

 Carefully insert the SIM card into the holder (5). Make sure that the SIM card is inserted properly and that the golden contact area on the card is facing you.



4.

Push the SIM card holder down into its original position and lock it into place by sliding it in the direction indicated by the arrow. Close the cover of the radio unit and check to make sure it catches.



Switching on/off and off mode

⚠ Caution! _____

If wireless phone use is prohibited or when it may cause interference or danger, switch your car phone over to off mode. The car phone is then deactivated, even if the car ignition is on.

Switching on the phone

To switch on your car phone, simply turn the ignition key. Your car phone is connected to the ignition system, so that turning the ignition on automatically switches your car phone on.

If the message SIM rejected is shown on the display although checking the SIM card has shown that the SIM is properly inserted, please contact your network operator or service provider for assistance.

If you are requested to enter your PIN code, key in the PIN code displayed as ****

Press 🛧 to confirm the PIN.

After you have entered the correct PIN, the car phone automatically activates the user data profile that was in use the last time the phone was switched on. If no entries have been made in the phonebook memory for this particular user profile, the car phone will prompt you, asking you if you want to copy the phonebook entries from the SIM card memory into the phone memory for this user profile.

The car phone entries represent those in the internal phonebook memory and not those on the SIM card in use.

Switching off the phone

When you switch off your car's ignition, the car phone will not be switched off automatically: it remains in service for the period of time that you have set using the power down timer. Then the phone automatically switches off.

The factory setting for the power down timer is five minutes

Off mode

To change over to off mode when your car's ignition is switched on:

- Press and hold 3.
- Then press and hold

When your car phone is in off mode, the display as depicted in the figure above is shown.

- ► To put your car phone back into service, press 🚓.
- ► Follow the instructions shown on the display.

4. Call functions

Voice dialling



You can make a phone call simply by saying a voice tag that has been added to a number in the phone book. Name tags may be added to up to 15 of the

numbers stored in your phone book. Any spoken word (or words) such as the name of a person can be used as a voice tag to voice dial a call.

Before using voice dialling, note that:

- Voice tags are not language dependent. They are dependent on the speaker's voice.
- Voice tags are sensitive to background noise. Record them and make calls in a quiet environment.
- When recording a voice tag or making a call by saying a voice tag, speak clearly into the microphone.
- Very short names are not accepted. Use long names and avoid similar names for different numbers.
- You must say the name exactly as you said it when you recorded it. This may be difficult in, for example, a noisy environment or during an emergency, so you should not rely solely upon voice dialling in all circumstances.

- Before you can use this feature you will have to record voice tags for numbers stored in the car phone's phone book. To do so, you will have to speak a voice tag and add it to the related number in the phone book. For further information, see Voice Tags on page 37.
- ► To voice dial a number, press
 to access the voice display. A tone will sound and the message Speak now will appear on the display.
- ► Say the voice tag belonging to the desired number loudly and clearly.

To indicate that it has recognised the voice tag, your car phone will play back the voice tag as recorded and then automatically dial the number assigned to it 1.5 seconds later.

Dialling from the phone book (name search)



You can call a number simply by selecting a name from the phone book:

- In the standby display, scroll with A to the desired letter of the alphabet in the phone book and press A to open the list of names beginning with this letter.
- ► Scroll with 🛤 to the desired name and press *C* to dial the number stored with the name.

You can add as many as five phone numbers to an entry in the phone book with different symbols added to differentiate the entries. The first number saved under a name is automatically set as the default number and is indicated with (General). Other number types are (Mobile), (Home), (Office), and (Fax).



To call any one of the other numbers stored for a name:

- Press A and scroll with A to the desired symbol or phone number.
- ▶ Press *C* to dial the number.

Redialling

To redial a number you have recently dialled, you can view a list of up to 10 numbers that you have last called or attempted to call.

- ▶ In the standby display, press *C*,
- ▶ Scroll with 🛤 to the desired number or name.
- ▶ Press *C* to dial the number.

Making a call using the keypad

You can also make a call by keying in a phone number.

- ► In the standby display, key in the desired phone number by pressing the number keys to .
- ► If you have keyed in the number incorrectly, press to delete it.

Using the Navi[™] wheel to make a call

You can use the Navi $^{\mbox{\scriptsize M}}$ wheel to enter a phone number and make a call.

- ► In the standby display, scroll with ➡ to the first number in the phone number and press ♣ to select it.
- Repeat this step for the other numbers making up the desired number until the complete phone number is shown on the display.
- ▶ Press *(* to call the number.

List of favourites

You may enter up to 15 names assigned to phone numbers in your phone book in this list. The list of favourites is provided for your convenience to allow you to quickly access numbers you frequently call.

To view the list from the standby display,

- ▶ Press ♀.
- ► Scroll with 🛤 to the desired entry and press 👫 to select it.
- ► Follow the instructions shown on the display.
- ▶ Press *C* to dial the number.

Call waiting service



If the function Call waiting is activated, You will be notified of any incoming call while you have another call in progress. This feature will allow you to accept this call (network service).

The following settings are available for this feature:

• Activate

This option will activate the call waiting service.

• Cancel

This option will deactivate the call waiting function.

• Check status

Select this option if you wish to know whether or not this service is currently active for your car phone (network query).

- ► Press
 C to switch between the active call and the call on hold.
- Press s to end the currently active call and return to the call on hold.

Options during a call

The following options are available to you during an active call:

- Send DTMF
- Mute
- Contacts
- ▶ Press 🚓 during a call to view the list of options.
- ► Scroll with 🛤 to the desired option and press 👘 to select it.

Send DTMF

DTMF tone strings can be used to send passwords or to access your answerphone, for example.

Use the handset to key in the desired number. Immediately after you have pressed a key, the related number will be sent as a DTMF tone.

- Press
 to exit this option and return to the previous display.
- Pressing 🥆 returns to the call display.
- Any call in progress will remain active.

Mute call



If desired, you can mute a call in progress by selecting the option Mute, which switches off the microphone. The message Muted then appears on the display.

Press (to unmute the microphone.

Open phone book

During a call, you may wish to open the phone book to check a number, for example, or to give the caller a particular number.

- Scroll with to find a number in the phone book during a phone call.
- Press s to exit the phone book and return to the previous display.

Accepting or refusing an incoming call

You can either accept or refuse any incoming call:

- Press to accept an incoming call and, when finished, press to end it.
- ▶ Press 🥆 to refuse an incoming call.

If the function Divert if busy has been activated (network service) and your incoming calls are directed to another number such as your voice mailbox number, any call you have refused will also be diverted to this number. For more information, see Call divert on page 31.

5. Using the menu

The Nokia 810 car phone offers you an extensive range of functions, which are grouped in menus.

Accessing a menu function

To access the menu from the standby display, press the Navi[™] wheel (♠). You can then navigate the menu using the following keys:



- Turn the Navi[™] wheel to the left to scroll left through a list of options.
- \bigotimes
- Turn the Navi[™] wheel to the right to scroll right through a list of options.

Press the Navi $^{\mbox{\scriptsize IM}}$ wheel to select a desired option.



Press this key to delete an entry made. Or press this key to return to the previous menu level (see the list of menu functions). Press and hold this key to clear the display.

List of menu functions

Messages

- Inbox
 - Callback
 - Reply with template
 - Save as template
 - Delete
- Message settings
 - Message centre number
 - Reply via same centre
- View templates
 - Send
 - Delete

Call regist.

- Missed calls
- calls
- Dialled numbers
- Contacts
- Search
- Add contact
- Edit contact
- Delete
- Add number

- Memory status
- Speed dials

Tones

- Ringing volume
- Ringing tone
- Warning tones

Settings

- Time settings
- Call settings
- My number sending
 - On
 - Off
 - Preset
- Call divert
 - Divert all voice calls
 - Divert if busy
 - Divert if not answered
 - Divert if out of reach
 - Divert if not available
 - Cancel all diverts
- Automatic answer
 - Automatic answer off
 - Automatic answer on

- Call waiting
 - Call waiting activated
 - Call waiting deactivated
 - Check status
- Speed dialling
 - Speed dialling on
 - Speed dialling off
- Phone settings
 - Language
 - Backlight settings
 - Daytime brightness
 - Night-time brightness
 - Cell info display
 - Cell info display on
 - Cell info display off
 - Network selection
 - Automatic
 - Manual
 - Power down timer
- Voice mailbox
 - Listen to voice messages
 - Voice mailbox number
- GPRS modem
- Security settings
 - PIN code request
 - Change PIN code
 - Closed user group
 - Off

- Default
- On
- Fixed dialling
 - On
 - Off
 - Number list

Voice

- Voice tags
 - New voice tag
 - List of voice tags
 - Play
 - Change
 - Delete
- Voice comms.
 - New command
 - List of voice commands
 - Play
 - Change
 - Delete

Recorder

- Record
- Play
- Delete

Bluetooth

- Search for Bluetooth devs.
- View active devices
- View paired devices
 - Create connection
 - Delete pairing
 - Request authorisation
- Bluetooth name
- Visibility

User data

- Download contacts
- Change user
 - User 1
 - User 2
- Download settings
 - SIM and phone memory
 - SIM memory
 - Phone memory

6. Menu functions

Messages



You can receive and read short text messages on your car phone and either call the sender back or send an answering SMS using a message

template (network service). However, before you can send your own short messages, you will have to make some necessary Message settings.

- Remember that traffic safety comes first. Don't use a handheld phone while driving and only use the features offered by your car phone when traffic conditions permit this.
- When sending messages via the SMS network service, your phone may display the words Message sent. This is only an indication that the message has been sent by your car phone to the message centre number programmed into your phone. This does not mean that the message has been received at the intended destination.

Inbox



When you have received an SMS, the indicator and the number of new messages are shown on the display along with the notification New msgs. received

Any short messages sent to your car phone are shown in the order in which they are received. Unread text messages are indicated by \mathbf{E} , with read text messages indicated by the symbol.

A flashing SMS indicator 📼 means that the message memory is full. To be able to send or receive a new message, you will first have to delete some of the old ones.

If you have received more than one text message:

- ▶ Select the messages menu and press 🐥 to open it.
- Select the inbox option and press (to view the list of messages.
- ► Scroll with 🛤 to the desired message and press 👘 to read it.
- Scroll with A to either browse through the message or display the message itself, the sender or sender's phone number, and the date and time the message was received.

Your car phone comes with a number of options for handling the message selected:

- ► Press 🛧.
- Scroll with 🤼 to the desired option and press (A) to select it.

Call back

Select this option to make a call to the sender's phone number.

Reply with template

You can reply to a short message using a template that you have prepared yourself. Select the option reply with template to view the list of the templates stored in your car phone.

Save as template

This convenient option lets you save a received SMS as a template. To use the template when writing your own short message, select the option Reply with template to view the list and send the message.

Erase

Select this option to delete a short message.

Message settings

To be able to send short messages, you first need to make some settings on your car phone.

Message centre number

You receive this number from your service provider.

This option saves the phone number of the message centre, which you need to send text messages.

Reply via same centre

Replies to short messages are typically handled by the SMS centre which the sender subscribes to. Selecting Reply via same centre will allow the recipient of your message to send you a reply via your message centre (network service).

To make these settings, from the standby display:

- ▶ Press 🛧.
- ► Scroll with A to the menu item Message settings and press A to select it.
- ► Scroll with ➡ to the desired option and press ➡ to select it.
- ► Follow the instructions on the display.

View templates

Your car phone can save up to 10 templates to be sent as short messages. Five standard templates come with your car phone; you may save 5 further templates taken from short messages sent to you. The following options are available:

Send

The template selected will be sent.

Erase

The template selected will be erased.

To view the list of text message templates from the standby display:

- ► Press 🐥.
- Scroll with A to the Messages menu and press A to view the options.
- Scroll with to View templates and press to view the list.
- Scroll with A through the list of templates and press
 to select the desired template.
- ► Scroll with 🛤 to the desired option and press 👘 to select it.
- ► Follow the instructions shown on the display.
- While you may erase the templates you have saved from short messages sent to you, please note that you cannot delete the 5 standard templates stored in the phone's memory.

Call register



The phone registers the phone numbers of missed, received, and dialled calls and the time and date of your calls.

The phone registers missed and received calls only if the network supports these functions and if the phone is switched on and within the network's service area.

In these lists you can view up to 10 of the last calls made to your phone or received or up to 10 numbers you have last dialled. They are provided for your reference. The most current item is shown at the top of the list.

Three options are available for each of the items in the call register: Call, Time of call or Delete.

- Select an entry in the desired list and press \clubsuit .
- ► Scroll with ➡ to the desired option and press ♠ to select it.
- ► Follow the instructions shown on the display.
- Press s to return to the previous menu or press and hold the key to return to the standby display.

Missed calls

To view a list of up to 10 of the latest, registered calls (network service) from the standby display:

- ► Press 🛧.
- Scroll with 🤼 to the Call regist. menu and press (to open it.
- ► Scroll with 🛤 to Missed calls and press 🛞 to view the list.
- ► Scroll with 🤼 through the list.
- \blacktriangleright Press \Im to return to the standby display.

Received calls

To view a list of up to 10 registered numbers of the latest calls you have received from the standby display:

- ► Press 🛧.
- ► Scroll with A to the Call regist.menu and press A to open it.
- ► Scroll with 🤼 to Received calls and press 👫 to view the list.
- ► Scroll with 🛤 through the list.

Dialled numbers

You can use a shortcut to view the list of up to 10 of the lastdialled numbers with the display in standby: press and hold \mathscr{P} . To view the list of last-dialled numbers, from the standby display:

- ► Press 🛧.
- Scroll with 🤼 to the Call regist. menu and press (to open it.
- Scroll with A to the option Dialled numbers and press to view the list.
- ► Scroll with 🤼 through the list.

Contacts



All of the entries you make in the phone book are saved in the car phone's internal memory. You can also copy entries from a SIM card or a compatible

mobile phone that supports Bluetooth wireless technology to your car phone. For further information, see Download contacts on page 44.

For each user profile, the car phone's internal phone book can save up to 250 names together with numbers for each name. For further information, see Querying the memory status on page 29.

You can assign up to five phone numbers for each name.

The first number saved under a name is automatically set as the default number and is indicated with **2**. When you select a name from the phone book, for example, to make a call, the default number is used unless you select another number.

Searching for names and numbers

You can access the list of names and phone numbers quickly from the standby display.

► Scroll with K to the first letter of the desired name and press A to select it.

Contacts

- You can now view all the names stored in your phone book which start with the letter selected. They are listed in alphabetical order.
- ▶ Scroll with 🤼 to the desired name in the list.
- ▶ To make a call to this person, press 𝒫.
- ► To end the call, press 🦄.
- ► To return to the standby display, press 🦄.

For further information, see Dialling from the phone book (name search) on page 18.

Adding a name

Names and phone numbers are stored in the phone book. You can add a name and the related number to the phone book starting from the standby display:

- ► Select the Contacts menu and press the (♣) to open the phone book.
- ► Scroll with 🙀 to Add contact and press 🕀 to select this option.
- Key in the name with the alphanumeric keys and press to save it.
- ▶ Key in the corresponding number and press 🕀 to save it.
- ► To erase a character incorrectly selected, press **¬**.

Editing names and phone numbers

You can edit names and phone numbers in the phone book starting from the standby display:

- Select the Contacts menu and press (*) to open the phone book.
- ► Scroll with 🤼 to Edit contact and press 🕀 to select this option.
- Scroll with A to the first letter of the desired name and press A to view the list of entries starting with this letter.
- ► Scroll with ➡ to the desired name in the phone book and press ♣ to select it.
- ► You can now edit the entry. Scroll with 🤼 to the letter or number to be changed and make the desired changes.
- ► To save any changes made, press 😤.

Erasing phone book entries

You can erase one or more names and the related numbers from the phone book starting from the standby display:

- ► Select the Contacts menu and press (♣) to open the phone book.
- ► Scroll with 🛤 to Delete and press 🚯 to select this option.
- Scroll with 🤼 to the desired option and press (to select it.
- ► Follow the instructions shown on the display.

Adding a phone number

You can add as many as four additional phone numbers to an entry in the phone book. The first number saved under a name is automatically set as the default number and is indicated with

- (General). Other number types are (Mobile), (Home),
- 🗯 (Office), and 📮 (Fax)

Starting from the standby display:

- Select the Contacts menu and press (to open the phone book.
- ► Scroll with 🔼 to Add number and press (♣) to select this option.
- Scroll with A to the desired name in the phone book and press A to select it.
- ► Scroll with 🔼 to the symbol you wish to assign to the number you are adding and press 🕀 to select it.
- ▶ Key in the number and press 🛧 to save it.

Querying the memory status

This option allows you to view the free storage space in the car phone memory (in %).

Starting from the standby display:

- ▶ Select the Contacts and press 🛧.
- ► Scroll with 🛤 to Memory status and press 🛞 to select this option.
- ▶ You can now view the memory status on the display.

Speed dialling

The speed dialling option is a convenient shortcut function that lets you dial a phone number assigned to a number key quickly and easily.

Assigning a phone number to a speed dialling key

You can assign any phone number in your phone book to a speed dialling key (rar to rar). Note that the rar key is reserved for speed dialling your voice mailbox. The options set out above are available for each of the keys assigned.

Starting from the standby display:

- ► Select the Contacts menu and press 🛧 to open it.
- ► Scroll with 🛤 to Speed dialling and press 💮 to select this option.

You can now view the list of speed dialling keys and the phone numbers that have been assigned to them.

- Scroll with
 to the desired speed dialling key and press
 to select it.
- Scroll with
 to the desired name or number and press
 to select it.
- ► Follow the instructions shown on the display.

Speed dialling a number

- Press and hold the speed dialling key assigned to the number until the call is started.
- For the setting options, please see Speed dialling on page 32.

Tone settings

Tone settings



You can choose the desired ringing tone for incoming calls, change the volume, and switch warning tones on or off as desired.

- Use the Navi[™] wheel 🤼 to regulate the volume of the ringing tone when the car phone is ringing to notify you of an incoming call or to change the loudspeaker volume during a call in progress.
- ▶ Select Tones and press 🛧 to access the menu items.
- Scroll with to the option of choice and press to select it.
- ► Follow the instructions shown on the display.

Ringing volume

This option sets the loudspeaker volume for an incoming call.

Ringing tone

This option offers you a range of ringing tones to choose from. Select the one you would like to have notify you of an incoming call.

Warning tones

This option lets you activate or deactivate special notification tones.

Settings



You may customise a number of the settings in your car phone.

► To make any of the above settings, select the Settings menu in the standby display and press (♣) to open it.

Setting the time and date

To set the clock from the standby display:

- ► Scroll with 🛤 to Time settings and press (♣) to select this option.
- ► Scroll with 🛤 to Set the Time and press 🚸 to select this option.
- ► Scroll with 🛤 to set the hour. Press 🚯 to take over the setting and continue with the minutes.
- ▶ Repeat the above step to set the minutes.
- Repeat the above procedure to access the options Time format, Set the date, and Date format to make the desired settings.

Call settings

This option lets you set a variety of call features. To make call settings from the standby display:

- ▶ Select the Settings menu and press 🕀 to open it.
- ► Scroll with 🛤 to the Call settings option and press 🛞 to select it.

Own number sending

• Preset

This will activate the setting you have agreed with your network operator.

• On

Selecting this option will activate your caller ID: the person you are calling will then be able to view your car phone number (network service).

• Off

If you do not wish your number to be sent to the called party, use this option to deactivate your caller ID.

 Scroll with 🤼 to the desired option and press (A) to select it.

Call divert

With Call divert you can direct your incoming calls to another number, for example, to your voice mailbox number. For details, contact your service provider (network service).

Your car phone offers you a wide variety of options to choose from:

- Divert all voice calls This option will divert all incoming voice calls.
- Divert if busy

Select this option to divert voice calls when your number is busy or when you reject an incoming call.

• Divert if not answered

This option will divert all voice calls you fail to answer.

• Divert if out of reach

Select this option to divert voice calls when you are out of reach of the network.

• Divert if not available

This option will divert all voice calls you receive when you are not available.

• Cancel all diverts Use this option to cancel any active divert options.

To make call divert settings from the standby display:

- ► Select the Settings menu and press 🛧 to open it.
- ► Scroll with 🛤 to the Call settings item and press 👘 to select it.
- ► Scroll with 🛤 to Call divert and press 👘 to select this item.
- Scroll with to the desired function and press to select it.

You can select any of four options for each of the divert features offered:

• Activate

This option lets you select the number you wish to direct diverted voice calls to: your voice mailbox or any other number.

• Cancel

Select this option for any call divert feature that is not to be activated.

• Check status

This option allows you to check the status of a call divert feature.

Settings

• Set delay

Select this option to set the time period after which an incoming voice call is to be diverted.

The original factory setting for the delay time is 5 seconds. Active call diverts are shown by an indicator on the display. For further information, see Display indicators on page 12.

Automatic answer

This feature will cause any incoming call to be automatically answered after the first ring whenever your car phone is on and off mode is not active.

To activate the automatic answer function from the standby display:

- ▶ Select the Settings menu and press 🕀 to open it.
- ► Scroll with 🛤 to the Call settings item and press 👘 to select it.
- ► Scroll with 🙀 to Automatic answer and press 🕀 to select this item.
- Scroll with A to the desired option On or Off and press to select it.

Call waiting

You may choose from three options for this function (network service):

• Activate

This option will activate the call waiting service.

• Cancel

This option will deactivate the call waiting function.

• Check status

Select this option if you wish to know whether or not this service is currently active for your car phone (network query).

Speed dialling

The speed dialling option can be activated (On) or deactivated (Off) as desired.

Phone settings

Select this option to customise your car phone settings.

Display text language

This option allows you to select the language that display texts are to be shown in. If automatic is selected, the phone selects the language according to the information stored on the SIM card

To set the display text language from the standby display:

- ► Select the Settings menu and press 🛧 to open it
- ► Scroll with 🛤 to the Phone settings item and press (♠) to select it.
- ► Scroll with 🛤 to Language and press 🕀 to select this option.
- ► Scroll with 🛤 to the desired language and press 👘 to select it.

Display backlight setting

You can adjust the brightness of the display's backlighting for better viewing comfort. Two customisable settings have been provided: a sensor regulates the fine adjustment to the light conditions within the operating environment for your convenience.

Daytime brightness

- ► Scroll with 🤼 to Daytime brightness and press (♣) to select this setting.
- Scroll with to the desired light setting and press to select it.

Nighttime brightness

 Scroll with 🤼 to the desired light setting and press (*) to select it.

Network information

When this function is activated, information about the radio cell you are currently using will be shown on the display. However, you can only use this network service if the phone is booked into a cellular network based on Micro Cellular Network (MCN) technology.

Network selection

The cellular network to which your phone is to be connected can be selected either manually or automatically.

• Automatic

Your car phone will automatically select a suitable available cellular network in the area.

• Manual

You can view a list of available cellular networks and select any network that has a roaming agreement with your home network operator. The phone stays in manual mode until the automatic mode is selected or another SIM card is inserted into the phone.

To set the display text language from the standby display:

- ► Select the Settings menu and press (♣) to open it.
- ► Scroll with ➡ to the Phone settings item and press ♣ to select it.
- ► Scroll with 🙀 to Network selection and press 🐴 to select this option.
- Scroll with 🤼 to the desired network and press (A) to select it.
- ► Follow the instructions shown on the display.

Power down timer

Your car phone comes with a power down delay that keeps your phone in service for the period of time set even when the car's ignition has been switched off. After you have switched off the ignition, the car phone remains in operation for the time set in the <u>Power down timer</u>. The timer is automatically reset after every call made.

The original factory setting for the power down timer is 5 minutes. The power down delay is limited to a maximum delay time of 24 hours.

Settings

Remember that your car phone runs off the car battery.
 When setting the power down timer, take care not to drain your car battery.

To set the power down timer from the standby display:

- ► Select the Settings menu and press 🕀 to open it.
- Scroll with to the Phone settings item and press to select it.
- ► Scroll with 🙀 to Power down timer and press 👫 to select this option.
- ► Turn the Navi[™] wheel [™] to select the desired time setting.
- ▶ Press 🛧 to activate the timer.

A message on the display will notify you that the power down timer has been set.

Voice mailbox

The network may offer you a voice mailbox service, which you have to install before you can receive voice messages. To access this mailbox you may need to save the number to your car phone. Your service provider will give you further information on this service and let you know the number of your voice mailbox.

To make settings for your voice mailbox from the standby display:

- ▶ Select the Settings menu and press 🕀 to open it.
- ► Scroll with 🛤 to the Voice mailbox item and press 👘 to select it.

Scroll with A to the desired option and press A to select it.

Listening to voice messages

- Scroll to the option Listen to voice messages and press (*) to select it.
- Press (to dial the number of your voice mailbox and then follow the instructions given to you.
- Press and hold 🚓 or 획 to dial your voice mailbox direct.

Your voice mailbox number

You will obtain the number of your voice mailbox from your service provider upon subscription to this service.

- ► Scroll to the option Voice mailbox number and press (♣) to select it.
- ► Key in the voice mailbox number using the numeric keys to ₱. If you should enter an incorrect character, press to delete it.
- ▶ Press 🛧 to save the number.

GPRS modem settings

You can connect your car phone via Bluetooth or cable connection to a compatible PC and use the phone as a modem to enable GPRS connectivity from the PC. Note, however, that you will need a GPRS access point before you can do so. Contact your network operator or service provider for information. Before you can use GPRS:

- You need to subscribe to the GPRS service of your network operator or service provider.
- For the relevant information on the availability of GPRS and the necessary settings, contact your network operator or service provider.
- The settings required to use GPRS applications have to be saved to your car phone.
- ► Scroll with 🤼 to gprs modem and press (♣) to select this option.
- ► To set up a new GPRS access point or to change an existing one, press (♣) again.
- Press A to open the option Edit access point? and key in the name of the GPRS access point using the alphanumeric keys.
- Save the setting by pressing \bigwedge .
- If you have made a mistake in selecting a character, press
 to delete it. Press and hold this key if you wish to erase the complete entry.

For further information, see Reference information on page 47.

Charges for GPRS and related applications

You may be charged for an active GPRS link or for an application which uses GPRS, e.g. when sending or receiving data and short messages. For details of charges, contact your network operator or service provider.

Security settings

▲ Caution!

For some security settings (for example, when calls are limited to closed user groups or fixed dialling numbers), you may find that, in some networks, emergency calls to certain numbers (e.g. 112 or other official emergency call numbers) are blocked. You may first need to turn off these features before you can make an emergency call.

PIN code request

Use this option to set the car phone to ask for the PIN code of your SIM card whenever the phone is switched on. Remember that some providers do not allow the PIN code request function to be deactivated.

PIN code change

This option lets you change the PIN code of the active SIM card. Remember that these codes may only include the numbers 0 to 9.

Closed user group

This is a network service which specifies the group of people you can call or who can call you. For further information, contact your network operator or service provider.

You can choose from three options for this function:

• 0ff

The closed user group service is deactivated.

Settings

• Default

The settings made by your service provider are active.

• **On**

The closed user group service is active.

Fixed dialling numbers

You can restrict your outgoing calls to selected phone numbers, if this function is supported by your SIM card. To save and edit the numbers on this list, you need the PIN2 code.

You can choose from three options for this function:

• Off

The fixed dialling numbers function is deactivated.

• Number list

This option allows you to view the phone numbers that may be used for outgoing calls.

• **On**

The fixed dialling numbers function is active.

- ▶ With the display in standby, select the Settings menu.
- ► Scroll with ➡ to desired option and press ♣ to select it.
- ► Follow the instructions shown on the display.

For further information, see Access codes required for the SIM card on page 11.

Audio settings

Your car phone supports a variety of options for output over a loudspeaker:

- Direct connection to the SP-2 loudspeaker supplied in the sales package.
- Connection to a compatible car radio loudspeaker over an additional relay that switches audio output over to the loudspeaker (not included in the scope of supply). Please ask the service technician who is to install your car phone for professional assistance.
- ► To do so, select the option Loudspeaker.
- Connection to compatible car radio loudspeakers via the audio line-in of your car radio. You will need to adjust the audio level suitably if this option is selected.
- ► To do so, select the option Radio loudsp..

Factory settings

You can reset all of the menu settings to the original factory settings from the standby display:

- Scroll with 🤼 to Settings menu and press (A) to select it.
- ► Scroll with A to Restore factory settings? and press A to select it.
- ► Follow the instructions shown on the display.

\triangle Caution! _

If you have erased a setting, you cannot undo this operation. The data is irretrievably lost.
Voice Tags

, voice

Before recording voice tags or using voice dialling, you will need to be aware of some essential facts:

- Voice tags are not language dependent. They are dependent on the speaker's voice.
- Voice tags are sensitive to background noise. Record them and make calls in a quiet environment.
- When recording a voice tag or making a call by saying a voice tag, make sure to speak clearly into the microphone.
- Very short names are not accepted. Use long names and avoid similar names for different numbers.
- You must say the name exactly as you said it when you recorded it. This may be difficult in, for example, a noisy environment or during an emergency, so you should not rely solely upon voice dialling in all circumstances.

Voice dialling

You can assign Voice tags to phone numbers and your car phone will automatically try to dial the number when it recognises the tag.

Recording a new voice tag

This option lets you record a New voice tag, assign it to a phone number, and save it in the car phone's memory. You may save up to 15 voice tags with the related numbers per user profile in your car phone. A voice tag can be any spoken word (or words) such as the name of a person.

- ► To record a New voice tag, select the Voice menu in the standby display and scroll with A to the option Voice tags. Press A to select this option.
- ▶ Scroll with 🛤 to New voice tag and press 🚯.
- Scroll with A to the desired name in the phone book and press A to select it.
- Scroll with A to the desired phone number and press to select it.
- ► Follow the instructions shown on the display.

Voice tag list

You can use this option to check all of the voice tags saved in your car phone memory and to edit the list using the options above.

• Play

This option will play back the voice tag as recorded.

• Change

You can replace any voice tag by a new one. Select this option and say the new voice tag.

• Delete voice tag?

Select this option to erase a voice tag and make room in the memory for a new voice tag.

You can enter the option from the standby display:

- ► Select the Voice menu and scroll with ➡ to the Voice tags item. Press ➡ to select it.
- Scroll with A to the option List of voice tags and press
 to select it.

Settings

- Scroll with A to the desired name in the phone book and press A to select it.
- ► Scroll with ➡ to the desired option and press ➡ to select it.
- ► Follow the instructions shown on the display.

Voice dial a number

speak now

To voice dial a number:

- ▶ Press \heartsuit . A tone will sound and the message Speak now will appear on the display.
- Say the voice tag belonging to the desired number loudly and clearly.

Your car phone will play back the voice tag and automatically dial the number assigned to it 1.5 seconds later.

- ▶ To cancel voice dialling, press 🦄.
- When an application using the GPRS connection is sending or receiving data, you cannot make a call using voice dialling. To make a call using a voice tag, you must first end the application using the GPRS connection.

Voice commands

You have a selection of phone functions which can be activated by saying a voice command. A voice tag may be assigned to as many as five of the commands on the List of voice commands. You can activate the voice command in the same way as making a call using a name tag. The available functions are:

- Replay recordings
- Download contacts
- Connect to BT headset

Recording voice commands

This option allows you to record Voice comms. (one or more words acting as a spoken command) and assign it to a function in the List of voice commands.

- ► To record a new Voice comms., in the standby display select the Voice menu. Scroll with A to the item Voice comms. and press A to select it.
- ► Scroll with 🛤 to Voice comms. and press (♠) to select this option.
- ► Scroll with 🛤 to the desired function in the List of voice commands and press 🛞 to select it.
- ► Follow the instructions shown on the display.

Voice command list

The voice command list includes the phone functions listed for voice commands. Each function on the list can be checked and edited using the options below:

• Play voice commands

This option will play back the voice command as recorded.

• Change

You can record a new voice command for a selected entry, replacing the existing one.

• Delete voice command?

Select this option to erase a voice command and make room in the memory for a voice command.

From the standby display:

- ► Select the Voice menu and scroll with ➡ to the Voice comms. item. Press ♣ to select it.
- Scroll with A to List of voice commands and press A to select it.
- ► Scroll with A to the desired option in the List of voice commands and press A to select it.
- You can choose any one of the above options for the entry selected.
- ► Follow the instructions shown on the display.

Before using voice commands, note that:

- Voice commands are not language dependent. They are dependent on the speaker's voice.
- Voice commands are sensitive to background noise. Record them and make calls in a quiet environment.
- When recording a voice command, speak clearly into the microphone.
- Very short commands are not accepted. Use long commands and avoid similar commands for different functions.

Executing a voice command

 When an application using the GPRS connection is sending or receiving data, you cannot execute a voice command. To do so, you must first end the application using the GPRS connection.

Speak now

To execute a voice command:

- ▶ Press ♀. A tone will sound and the message Speak now will appear on the display.
- ► Say the voice command loudly and clearly.

Your car phone will play back the voice command and automatically perform the function assigned to it 1.5 seconds later.

Recorder

You must say the voice command exactly as you said it when you recorded it. This may be difficult in, for example, a noisy environment or during an emergency, so you should not rely solely upon voice commands in all circumstances.

Recorder



The tape recorder feature allows you to record pieces of speech, sounds or an active phone call. This is especially useful if you need to note information during a

call: for example, you can record a name or a number to be written down later.

 Obey all local laws governing recording of calls. Do not use this feature illegally.

You can make up to 10 recordings as long as you do not exceed an overall recording time of four minutes. Each recording is saved together with the running number, the length and time of the call, and the memory status.

New recordings are automatically saved in the memory. When the memory is full, the message No memory to save rec. will be shown on the display. To be able to make new tape recordings, you will first have to erase some old ones.

- ► Press and hold the \square key to begin recording during a phone call.
- You can easily play back your recordings using a voice command. Say the voice command and your car phone will begin with the recording last made. With A you can skip to the next recording.

Before you can use this shortcut, you will have to assign a voice command to this function in your car phone. For further information, see Voice commands on page 38.

Record

This option allows pieces of speech to be recorded and automatically saves the recording.

To make a recording:

- ▶ Select the Recorder menu and press 🕀 to open it.
- Scroll with 🤼 to Record and press (to select this option.
- ► Follow the instructions shown on the display.

If you are engaged in an active call and wish to make a recording:

- To start recording, press and hold \heartsuit .
- \blacktriangleright To end the recording, press \clubsuit .

All records are stored and numbered (e.g. tape 1).

To get the list with the records:

- In the standby display, select the option Recorder and press
 to open it and view the list of tape recordings.
- ► Scroll with 🛤 to the desired recording and press 👘 to select it.

In addition, the options Play and Delete are available.

Play

You can play back a selected recording.

Delete

You can use this option to erase a recording in order to make room for new tapes.

Bluetooth wireless technology



Bluetooth wireless technology is an international standard for wireless short-range communication, allowing you to establish a wireless connection

between your car phone and a compatible device supporting Bluetooth wireless technology. Such devices may include, for example, mobile phone, a laptop computer or a wireless headset.

Since devices with Bluetooth technology communicate using radio waves, your phone and the other device do not need to be in direct line-of-sight. The two devices only need to be within a maximum of 10 metres of each other, although the connection can be subject to interference from obstructions such as the car body or from other electronic devices.

If you wish to use this function, make sure that both the car phone and the other device supporting Bluetooth technology are switched on. There may be restrictions on using such devices in some countries. Check with your local authorities.

Activating and deactivating Bluetooth

The Bluetooth function is always activated in your car phone. However, in other devices with Bluetooth technology, e.g. mobile phones, Bluetooth may have to be activated or deactivated in the device. Make sure that Bluetooth is active in all devices supporting Bluetooth wireless technology that you wish to use with your car phone.

For further information, see the user's guide applicable for the device with Bluetooth technology that you are using.

Searching for devices that support Bluetooth wireless technology

To pair your car phone with the desired compatible device supporting Bluetooth wireless technology, you will first have to search for it inside the Bluetooth range:

- With the display in standby, select Bluetooth and press to open this menu.
- Scroll with A to the option Search for Bluetooth devs. and press A to select it.

The car phone will now begin to search for mobile phones and accessories supporting Bluetooth wireless technology within its range. Devices responding to this interrogation will be shown on a list, with the device found last listed at the bottom.

▶ Scroll with 🤼 through the list.

Pairing with devices with Bluetooth technology

To create a connection, you may need to exchange Bluetooth passcodes with the device you are connecting to for the first time. This operation is called pairing. The Bluetooth passcode is a 1- to 16-character-long numeric code. If you are asked to enter a passcode, you will need to enter the passcode supplied with the device.

When establishing a wireless connection to devices such as a mobile phone using Bluetooth technology, you may be able to use a temporary passcode created by yourself. This passcode is used only once and you do not have to memorise it. Enter this passcode into the two devices sharing a Bluetooth connection. Then follow the instructions shown on the displays of the two devices.

To start pairing, select a device on the list:

► Scroll with ➡ to the desired device and press ♣ to select it.

View active devices

To show the currently active devices with Bluetooth technology that are sharing a connection with your car phone:

In the Bluetooth menu, select View active devices and press in to view the active device.

If desired, you can end the Bluetooth connection in this menu.

View paired devices

You can view a list of the paired devices by selecting the option View paired devices. Some of the options below may be available depending on the status of the device or the connection:

- ► To view the list of paired devices, scroll with K to Bluetooth and press (♣) to select it.
- ► Scroll with A to the desired compatible device and press A to select it.
- Scroll with A to the desired option and press A to select it.
- ► Follow the instructions shown on the display.
- Note that the latest pairing will be listed at the top.

Create connection

This option establishes a connection to a paired device with Bluetooth technology.

Delete pairing

Select this option to remove a device from the list.

Request authorisation

You can define whether the connection from the paired device is to be established automatically (No) or whether the phone is to ask for authorisation before pairing (Yes).

My phone's Bluetooth name

Use this option to change your car phone's Bluetooth device name, which is shown to others. The factory setting is Nokia 810. You can find the name used for a device that is paired with your car phone in the menu View paired devices.

 Scroll with A to the option Bluetooth name and press A to select it.

My phone's visibility

If a Bluetooth connection has been established between your car phone and another compatible device that supports Bluetooth wireless technology, your car phone is hidden from other devices. This means that it cannot be found by other devices with Bluetooth technology during a device search.

To be able to set up a Bluetooth connection to a compatible laptop or to send a business card to the car phone, you can use this option to make your car phone visible for one minute. During this interval, all active Bluetooth connections are ended. Afterwards, the connections are re-established by the car phone.

If you wish to use the Bluetooth function with your compatible mobile phone, make sure that it is activated in the mobile. Remember to set the car phone's visibility to Visibility or it will not be found during a search for active devices with Bluetooth technology. If you use Bluetooth technology functions regularly, e.g. to copy contacts to the car phone memory from a compatible mobile phone, you can set the option "Authorisation request" in the compatible mobile phone to "Off". Now connections between the devices via Bluetooth wireless technology can conveniently be made automatically without separate acceptance or authorisation.

Activate visibility

This setting is required if your car phone is to be visible for other compatible devices with Bluetooth technology in order to establish a Bluetooth connection.

When this setting is selected, it will remain active (i.e. visible on the display) for a period of time of one minute.

User data



This feature lets you store personal entries or phone settings under two different user data profiles. For example, now phone book entries, voice tags and

voice commands, ringing tones or short messages for two users can be saved and then accessed from the car phone using the same SIM card. Just activate your personal user profile to access your data.

Download contacts

You can use this feature to copy phone book entries from a SIM card inserted in the car phone or from a compatible mobile supporting Bluetooth wireless technology to the car phone memory.

This feature is important because you do not have direct access to the phone book entries stored on any SIM card inserted in the car phone. To access these numbers, you first need to copy them into the car phone memory.

To select a download option from the standby display:

- \blacktriangleright Press \bigstar to access these settings.
- Scroll with A to the user data item and press A to select it.
- Scroll with R to Download contacts and press r to view the list.
- Scroll with A to Car SIM card to select a paired telephone with Bluetooth technology or to start a search for devices supporting Bluetooth wireless technology.
 Press A to confirm your selection.

Car SIM card

► Start copying the phone book by pressing (♣). This will copy the phone book entries from the SIM card inserted in the car phone into the car phone memory.

Paired devices with Bluetooth technology

- Scroll with A to the paired device supporting Bluetooth wireless technology (name is displayed in the list) whose phone book entries you wish to copy into the car phone memory.
- You can set the compatible mobile phone to be authorised so that no separate acceptance or authorisation is needed when connecting to your car phone via Bluetooth wireless technology. To do so, in the menu "view paired devices", deactivate the option "Authorisation request" by selecting the setting "Off". Please refer to the mobile phone's user's guide for further information.

Searching for devices that support Bluetooth technology

► Scroll with A to the paired device with Bluetooth wireless technology (name is displayed in the list) whose phone book entries you wish to copy into the car phone memory.

For further information, see Searching for devices that support Bluetooth wireless technology on page 41.

Switch user

You may save two user profiles in your car phone to be used as desired. The settings for each user profile may be customised to suit the particular needs of the user. The profiles are shown on the display at all times using two indicators:

User 1

User 2

- ► To set a profile with the display in standby, select the User data menu and press (♣) to select it.
- ► Scroll with 🛤 to the option Change user and press (♣) to select it.
- Scroll with A to the desired user profile and press A to select it.

Download options

You can copy phone book data from any compatible mobile phone that supports Bluetooth wireless technology to your car phone. Your car phone offers you three convenient options:

• SIM and phone memory

This is the default setting that lets you copy both the phone book data from the mobile's SIM card and from the phone book memory to the car phone memory.

• SIM memory

Select this option should you wish to download only the phone book data from your mobile phone's SIM card to the car phone.

• Phone memory

This option copies the entries stored in the phone book memory of your mobile to the car phone memory.

To make these settings from the standby display:

- ► Select the User data menu and press 🕀 to open it
- Scroll with A to Download settings and press A to view the list.
- Scroll with A to the desired option and press A to select it.

7. Data communication

Bluetooth wireless technology

Bluetooth wireless technology is a system that enables wireless connections between compatible electronic devices at a range of maximum 10 metres. Use the phone as a modem for fax and data communication or to connect wirelessly to compatible accessories with Bluetooth technology.

In some countries, there may be restrictions on using devices with Bluetooth wireless technology. Check with your dealer and the local authorities.

Sending and receiving a business card

You can send or receive a person's contact information as a business card either via Bluetooth or in the form of a short message.

Receiving a business card

Make sure that your car phone is ready to receive data via Bluetooth. To do so, your car phone has to be visible for compatible devices supporting Bluetooth technology. For further information, see Activate visibility on page 43".

The user of the other compatible phone can now send their business card and phone number via the desired medium.

When you have received a business card via Bluetooth or as a short message, press the NaviTM wheel and select the option Save to store the business card in the phone memory. Or select Discard if you do not wish to save the business card.

Sending a business card

You can forward a received business card to a compatible phone using Bluetooth wireless technology if the phone supports it or to any handheld device that supports the vCard standard via the short message service.

Select the option Forward for the received business card, or if you should also wish to save the business card for your personal use, select Save and forward.

To send a business card via Bluetooth wireless technology, select the option via Bluetooth. To send a business card as a short message, select Via text message.

GPRS (General Packet Radio Service)

GPRS is a technology that allows mobile phones to be used for sending and receiving data over the mobile network (network service). GPRS as such is a data bearer that enables wireless access to data networks such as the Internet. The applications that may use GPRS are WAP, SMS messaging, and the GPRS dial-up.

Before you can use GPRS technology, you will need to subscribe to the GPRS service. For details on the availability of and subscription to the GPRS service, contact your network operator or service provider.

For further information, see GPRS modem settings on page 34.

HSCSD (High Speed Circuit Switched Data)

The car phone enables you to use GSM high-speed data services (network service).

You can use high-speed functionality when your phone is connected to a compatible computer via an RS232 cable or Bluetooth wireless technology and when the modem drivers supporting high-speed data software are installed on the computer and selected as an active modem.

For information on the availability of and subscription to highspeed data services, please contact your network operator or service provider.

Reference information

Cellular transmission

Your car phone employs the data transmission capabilities of the GSM network to send faxes, short messages, and e-mails and to establish connections with remote computers (network services).

GSM data capabilities of your car phone

We recommend that you move the car to a location where the strongest possible cellular signal can be obtained. A stronger signal allows more efficient data transmission.

Cellular data communications are subject to a number of factors that may cause interference:

Noise

Radio interference from electronic equipment and devices or from surrounding traffic may impact the transmission quality.

Handovers

As the car phone user moves from one network cell to another, the signal strength of the channel drops and the cellular telephone exchange may hand the user over to a different cell and frequency where the signal is stronger. A cell handover may also occur when the user is stationary due to varying cellular traffic loads. Such handovers may cause delays.

Dead spots and dropouts

Dead spots are areas where radio signals cannot be received. Dropouts occur when the car phone user passes through an area where the radio signal is blocked or reduced by geographic or man-made obstructions such as hills or high buildings.

Low signal strength

Due to either distance from a base station or obstacles between your car phone and the base station, the radio signal strength from a cell site may not be strong or stable enough to provide a reliable cellular connection for trouble-free reception or transmission. Therefore, to ensure the best possible communication, remember to take the following points into consideration when using your car phone:

Data and fax transmission will work best when the car is stationary. Attempting cellular communication while in a moving vehicle is not recommended. Fax transmission is more easily impaired than data or short message transmission. Check the signal strength on your car phone display. If the cellular signals are not strong enough to support a voice call, data connection should not be attempted until you can find a location with better reception.

Data transfer via the RS232 interface

To be able to connect your compatible laptop computer to the car phone system, you will need an adapter cable (D-SUB9 adapter cable/laptop to 10-pin western cable/vehicle).

Should you wish to transfer data between your car phone and a compatible laptop, plug the 10-pin western connector into the port provided in the radio unit. The D-SUB9 connector plugs into the laptop. A compatible mobile fax device can also be connected. For further information, see Overview of the car phone and equipment on page 7.

To put your modem into operation, you will need to select the data transmission speed Standard 19200 bps on the laptop. For more information, see the NOKIA website: http://www.nokia.com.

8. Installation

Your Nokia 810 car phone

The Nokia 810 car phone is designed for installation in motor vehicles. The sales package contains a convenient handsfree feature which allows you to make calls without holding the phone to your ear, a separate handset for ease of use and an easy-to-read display.



Car phone Equipment.

The Nokia 810 car phone may only be installed by a qualified service technician using the approved original Nokia parts supplied in the sales package. Please note that non-observance of this requirement will result in loss of warranty. End users should remember that the car phone kit comprises complex technical equipment that requires professional installation using special tools and expert know-how.

Note that the instructions contained in this installation guide are general guidelines which apply for the installation of the car phone in an automobile. However, due to the wide variety of car types and models available on the market, this guide cannot consider the individual technical requirements relevant for any particular vehicle. Contact the vehicle manufacturer for further detailed information about the vehicle in question.

For important safety information and/or instructions on the operation, care and maintenance of your car phone, see Important safety information on page 55 and Care and maintenance on page 54.

Safety first

Safety first

- Please read the basic safety guidelines set out below before
 beginning any installation work.
- Make sure that the car ignition is off and disconnect the car battery before beginning with the installation work and ensure that it cannot be reconnected inadvertently.
- Do not smoke when working on the car. Make sure that there is no source of fire or flame nearby.
- Take care not to cause damage to electrical cables, fuel or brake lines or safety equipment during installation work.
- Make sure not to impact the steering or braking systems or other key systems essential for proper operation of the car when installing car phone equipment. Check to make sure that deployment of the airbag is not blocked or impaired in any way.
- RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (e.g. electronic fuel injection systems, electronic anti-skid braking systems, electronic speed control systems, airbag systems). Should you note a fault or change in the operation of such a system, contact your car dealer.
- The car phone kit may only be used at an operating voltage of 12 V with the minus pole earthed. Failure to observe this requirement may result in damage to the car's electronics system.

- Do not operate your car phone off the car battery for a longer period of time, i.e. with the engine switched off, as this may cause your battery to run dry.
- In order to comply with RF exposure requirements for mobile transmitting devices, a minimum separation distance of 20 cm must be maintained between the antenna and all persons.

Mounting



Radio unit TFE-4R (Pos.1)

It is recommended to mount the radio unit TFE-4R at a less visible position in the car interior. However, ensure that the unit is installed to permit easy access to the SIM card so that it can be changed if necessary and make sure that the cables for the microphone and loudspeaker will reach the places you intend to mount these components.

 When installing the radio unit, make sure to mount the bracket in such a way that the unit slides into place towards the front of the car or is mounted sideways. Otherwise the unit may break loose if you have an accident and cause injury or damage.



Display XDW-1 (Pos.2)

The mount for the display unit is to be fixed to the dashboard or to any other location in the cockpit area where the display is clearly visible for the user but does not impair control or operation of the vehicle.

If you have any questions about installing your car phone, please ask your service technician, who will be glad to provide you with information on the most suitable mount for the display unit in your vehicle. Some mounting systems do not require boreholes.

Remember that all equipment must be mounted so that it does not interfere with the operation of the vehicle.

Handset HSU-4 (Pos.3)

The handset comes with a mount that is to be fixed in a suitable location where it is easily accessible for the user. However, take particular care to ensure that the handset will not interfere with the driver's operation of the vehicle. Make sure that the cable will reach to the radio unit for connection. The best location to mount the handset is horizontally on the console between the driver's and front passenger's seats.

Loudspeaker SP-2 (Pos.4)

To ensure good acoustic quality, mount the loudspeaker so that it is pointed in the user's direction. We recommend that you mount the loudspeaker a minimum distance of 1 metre away from the microphone to avoid feedback.

Microphone HFM-8 (Pos.5)

Mount the handsfree microphone approx. 30 cm from the user's head, and position it so that it points towards the user's mouth. Experience has shown that the best locations are near the rearview mirror or to the left of the sun visor. Check to make sure the microphone does not impair control or operation of the vehicle. We recommend that you keep the microphone a minimum distance of 1 metre away from the car phone loudspeaker to avoid feedback.

Take care to mount the microphone so that it is not exposed to air streams from the vents. Do not lay the microphone cable in the heating, ventilation or AC system. Use the double-sided adhesive tape supplied to fix the microphone as this will prevent noise from the car body being transmitted into the interior.

When you accept an incoming call or when an outgoing call is connected, the system will automatically mute your car radio and the call will be switched over to the car phone loudspeaker.

System cable PCU-4 (Pos.6)

The system cable connects the car phone to the car's electronics system. See the wiring diagram for exact instructions.

When laying the cables, take care to position them so that they are located as far as possible from the electronics systems installed in your car in order to avoid electromagnetic interference.

Ensure that cables are placed so that they will not be subjected to mechanical wear and tear (e.g. not laid under car seats or over sharp edges).

GSM antenna (Pos.7) (not included in the scope of supply)

Your car phone is designed to be connected to an external GSM antenna. However, if your car is equipped with a compatible radio/GSM antenna with a frequency separating filter, this may be used instead.

If your car does not come with a GSM antenna, please contact your dealer for information on the best location for mounting and for the relevant installation guidelines.

RS232 adapter cable AD-3 (Pos. 8)

An RS232 adapter cable provides a convenient way to connect your car phone to the serial port of a compatible laptop computer.

For further information, see the section on Access codes required for the SIM card on page 11.

Audio settings

Your car phone supports a variety of options for output over a loudspeaker:

- Direct connection to the SP-2 loudspeaker supplied in the sales package.
- Connection to a compatible car radio loudspeaker over an additional relay that switches audio output over to the loudspeaker (not included in the scope of supply).
- Connection to the compatible car radio loudspeakers via the line-in input of your car radio. You will need to adjust the audio level suitably if this option is selected.

To make audio settings, select the Start-up tour or Settings menu:

- ► Scroll with 🛤 to Equaliser sett. and press (♣) to select this option.
- ► Scroll with 🛤 to the desired option and press 👫 to select.

Function test

After your car phone has been installed, it needs to be checked to ensure that it is working properly. When testing the operation of the equipment, also check that it has been mounted so that it in no way impairs the driver during operation of the vehicle. To make a wireless connection between your car phone and a compatible accessory with Bluetooth technology, ensure that the devices are within the range necessary for Bluetooth transmission. Remember that external devices need to be supplied with sufficient power for this feature (check the battery pack).

Scope of supply

- Radio unit TFE-4R
- Display XDW-1
- Handset HSU-4
- Loudspeaker SP-2
- Microphone HFM-8
- System cable PCU-4
- RS232 adapter cable AD-3

9. Care and maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and to enjoy this product for many years.

- Keep the car phone and all its parts and accessories out of the reach of small children.
- Keep the car phone dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the car phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the car phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the car phone in cold areas. When it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
- Do not attempt to open the car phone. Non-expert handling may damage it.
- Do not drop, knock or shake the car phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the car phone.
- Do not paint the car phone. Paint can clog the moving parts and prevent proper operation.

• Use only an approved antenna. Unauthorised antennas, modifications or attachments could damage the car phone and may violate regulations governing radio devices.

All of the above suggestions apply equally to your car phone or any accessory. If any of them is not working properly, take it to your nearest qualified service facility. The personnel there will assist you and, if necessary, arrange for service.

10. Important safety information

Traffic safety

Do not use a hand-held telephone while driving a vehicle. Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or a sudden stop.

Remember: road safety always comes first!

Operating environment

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

Electronic devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your car phone.

Pacemakers

Pacemaker manufacturers recommend that a minimum separation distance of 20 cm be maintained between the vehicle antenna and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

If you have any reason to suspect that interference is taking place, switch your car phone over to off mode immediately.

Potentially explosive atmospheres

Switch your car phone over to off mode, see Off mode on page 17, when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised not to use the car phone when at a refuelling point. Remember to observe the restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquified petroleum gas (such as propane or butane), areas where the air contains chemicals or particles such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Vehicles

Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the unit.

Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.

Emergency calls

Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Failure to observe these instructions may lead to suspension or denial of telephone services to the offender, or legal action or both.

Emergency calls

Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

▲ Caution!

This car phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as userprogrammed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore, you should never rely solely upon any wireless phone for essential communications (e.g. medical emergencies).

To make an emergency call



If the phone or car ignition is not on, switch it on. Check for adequate signal strength.

Some networks may require that a valid SIM card is properly inserted in the phone.

- ► Press and hold *C* until Make an emergency call? is shown on the display. Confirm by pressing (♣).

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your car phone may be the only means of communication at the scene of an accident – do not cut off the call until given permission to do so.

11. Technical data

Battery voltage

12.6 VDC (10.8 – 13.5 V) Negative potential to ground (GND).

Current carrying capacity

1.5 A (off mode 1 mA)

Transmitting power

EGSM 900: 3.2 mW – 2 W DCS 1800: 1.0 mW – 1 W

System cable PCU-4

System cable wiring

- 1. Red, BATTERY, +12V
- 2. Black, GND, ground
- Yellow, MUTE, radio mute
 When call is set up, switch over from +12V to 0V.
- 4. Blue, ACC / IGN, ignition
- 5. 2A fuse



12. Glossary

DTMF tones

DTMF (Dual Tone Multi-Frequency) tones are the tones you hear when you press the number keys on the phone keypad. DTMF tones allow you to communicate with voice mailboxes, computerised telephony systems, etc.

GPRS

GPRS (General Packet Radio Service) enables wireless data transmission. For wireless access to data networks, you will need a GPRS access point from your network operator or service provider. For further information, see GPRS (General Packet Radio Service) on page 46.

GSM

GSM, the Global System for Mobile Communication, is the technical standard for mobile radio networks.

HSCSD

HSCSD (High Speed Circuit Switched Data) makes data connections faster for attractive GSM data services. For further information, see HSCSD (High Speed Circuit Switched Data) on page 47.

IMEI

The IMEI is the serial number of your device and is supplied with the car phone kit.

PIN-Code

The PIN (Personal Identification Number) is a 4- to 8-digit code which protects your SIM card from unauthorised use. The PIN code is supplied with the SIM card. For further information, see Access codes required for the SIM card on page 11.

PUK-Code

The PUK (Personal Unblocking Key) is an 8-digit code which is required to change a disabled PIN code.

The PUK code is supplied with the SIM card. If you lose the code or it has not been provided with the SIM card, contact your network operator.

SIM-Card

The SIM (Subscriber Identity Module) card contains all the information the cellular network needs to identify the network user. The SIM card also contains security-related data.

SMS

The network service SMS (Short Message Service) allows you to send short text messages (of up to 160 characters) to mobile phones and to receive short text messages from other mobile users if this service is enabled.

SMSC number

The SMSC (Short Message Service Centre) number is needed for sending of short messages.