

SIEMENS

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SIEMENS



S40

User Guide

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Menu overview

List menu

- SIM Application toolkit
- Outgoing calls
- Answered calls
- Missed calls
- Phone books
- Status
- Calculator
- Voice Memo
- Calendar
- Missed events
- IrDA operation
- WAP Browser
- Messages

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Address and phone book entries

Complete survey of keypad functions and display symbols on pp. 80 - 83

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- Call barring
- Call waiting
- Call back
- Calling name presentation
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- Country list
- Network types

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- Message tone
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- Your own ring tone
- Key tone
- Silent mode
- Trembler
- Factory settings

Phone setup

- Language
- IrDA
- Backlight
- Handsfree
- Greeting
- Signal diode
- Graphics
- Owner ID

Body Worn Operation

To ensure optimal performance of your phone's antenna and compliance with all applicable FCC RF exposure guidelines, body worn operation of this phone is restricted to the use of belt-clips, holsters or similar accessories that have no metallic components and that provide at least 1cm separation between the back of the phone and the user's body. Use of other accessories could void your warranties and cause RF exposure in excess of FCC guidelines.

Call setup

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- Change PIN 2 code
- SIM lock
- Change network password
- Encryption indication
- Fixed dialling on/off
- Barred dialling on/off
- Keypad lock
- Line lock

Siemens service

Abu Dhabi	Siemens Service Center	26423800	Lebanon	FA. Kettaneh	01443043
Australia	Siemens	1800622414	Lithuania	Siemens	2397779
Austria	Siemens	0517075004	Luxembourg	Siemens	43843399
Bangladesh	Siemens	017527447	Malaysia	Siemens	0379525184
Belgium	Siemens	078152221	Morocco	SETEL S.A.	22669232
Brunei	incomm	02430801	Mauritius	Ireland Blyth	2116213
Bulgaria	Omnitel	02739488	Netherlands	Siemens	0900-3333100
China	Siemens	02150318149	Norway	Siemens	22708400
Croatia	Siemens	016105381	Oman	Siemens Service Center	.791012
Czech Rep.	Siemens	0233032727	Pakistan	Siemens	0215673565
Denmark	Siemens	35258600	Philippines	Siemens	28149888
Dubai	Siemens Service Center	043559988	Poland	Siemens	0800220990
Egypt	Siemens	02 3334111	Portugal	Siemens	800853204
Finland	Siemens	0922943700	Russia	Siemens	0957372951
France	Siemens	0156384200	Saudi Arabia	Siemens	026515094
Germany	Siemens	01805333226	Singapore	Siemens	8454818
Greece	Siemens	016864389	Slovak Rep.	Siemens	0759682266
Hong Kong	Siemens	22583636	Slovenia	Siemens	014746336
Hungary	Siemens	0614712444	South Africa	Siemens	0860101157
Iceland	Smith & Norland	5113000	Spain	Siemens	902115061
India	Siemens	011 6839755 (ISDN) 116925589	Sweden	Siemens	087509911
Indonesia	Dian Graha Elektr.	0214615081	Switzerland	Siemens	012120090
Ireland	Siemens	1850777277	Taiwan	Siemens	0225186504
Italy	Siemens	0266764400	Thailand	Siemens	027155100
Jordan	FA. Kettaneh	079559663	Turkey	Siemens	02165718991
Kuwait	NGEECO	4818749	United Kingd.	Siemens	0990334411
Latvia	Siemens	7501114	USA	Siemens	1-877 687 1671
			Vietnam	Opticom	45632244

Internet:

<http://www.my-siemens.com>

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Facts & Tips

- *Your new GSM mobile telephone is designed for use in GSM 900, GSM 1800 and GSM 1900 networks.*
- *The telephone will automatically connect to the available network type. Furthermore, handover between GSM 900 and 1800 takes place automatically and seamlessly during conversation.*
- *If you travel mainly in the US and Canada and seldom go to Europe you can reduce the network connecting time by manually selecting only »GSM 1900« under Network types in the Setup menu.*

Important safety instructions

Please observe the following guidelines. Breaking these rules may be dangerous or illegal:



Mobile phones must be switched off at all times on board an aircraft.



Do not activate near gas stations, fuel depots, chemical plants or blasting operations.



Avoid use in hospitals; medical electronics, e.g. pacemakers and hearing aids, can be affected.



Minor interference may affect TVs, radios, PCs, etc.



Avoid pointing active infrared port at eyes.



Do not hold the phone in your hand while driving.



Do not dismantle phone or battery.



Use only specified batteries and chargers, as using third-party products can damage the phone or invalidate type approvals.



Unusable batteries should be disposed of in accordance with relevant legislation.



Do not use phone in high humidity environments, and do not use alcohol or other fluids to clean the phone.



Keep the phone in a safe place out of children's reach.



Use only ORIGINAL Siemens accessories to avoid potential injuries and/or damage to your phone.

WARNING

When using your cellular telephone, please note that the following offenses are punishable by fine, imprisonment, or both:

Using obscene, indecent or profane language.

Using the phone to give off false distress calls.

Wiretapping or otherwise intercepting a telephone call, unless that person has first obtained the consent of the parties participating in the call.

Making anonymous calls to annoy, harass or molest other people.

Charging to an account without authorization to avoid payment for service.

Refusing to yield line when informed that it is needed for an emergency call. (It is also unlawful to take over a line by stating falsely that it is needed for an emergency).

TIA Safety language

The following text is the general TIA Safety language document. As this mobile phone is equipped with an internal antenna some paragraphs in the below text may be irrelevant. For more information about the internal antenna see page 15.

Exposure to radio frequency signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992)*
NCRP Report 86 (1986)
ICNIRP (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

Antenna care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Phone operation

Normal position: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on efficient operation: For your phone to operate most efficiently:

- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- Give full attention to driving – driving safely is your first responsibility;
- Use hands-free operation, if available;
- Pull off the road and park before making or answering a call if driving conditions so require.

TIA Safety language

Electronic devices

Most modern electronic equipment is shielded from RF signals.

However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturer's Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone 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.

Persons with pacemakers

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;

- Should not carry the phone in a breast pocket;

- Should use the ear opposite the pacemaker to minimize the potential for interference.

- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you

to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

Aircraft

FCC Regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

Blasting areas

To avoid interfering with blasting operations, turn your phone OFF

when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

Potentially explosive atmospheres

Turn your phone OFF 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.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied 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.

For vehicles equipped with an air bag

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.

CTIA Driving safety tips

Your wireless telephone gives you the powerful ability to communicate by voice – almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

Get to know your wireless phone and its features such as speed dial and redial.

If available, these features help you to place your call without taking your attention off the road.

When available, use a hands free device.

If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.

Position your wireless phone within easy reach.

Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions.

Rain, sleet, snow, ice and even heavy traffic can be hazardous.

Do not take notes or look up phone numbers while driving.

Jotting down a “to do” list or flipping through your address book takes attention away from your primary responsibility – driving safely.

Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic.

Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

Do not engage in stressful or emotional conversations that may be distracting.

Make people you are talking with aware you are driving and suspend conversations which have the potential to divert your attention from the road.

Use your wireless phone to call for help.

Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it’s a free call on your wireless phone.

Use your wireless phone to help others in emergencies.

If you see an auto accident, crime in progress or other serious emergencies where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.

Call roadside assistance or a special non-emergency wireless assistance number when necessary.

If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

“The wireless industry reminds you to use your phone safely when driving.”

For more information, please call 1-888-901-SAFE or visit our website www.wow-com.com TM.

Provided by the Cellular Telecommunications Industry Association

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Information on SAR

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level

in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the mobile phone.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) to determine SAR compliance for the particular device at a range of potential operating positions. The highest SAR value for this model phone when tested for use at the ear is 0.33 W/kg and when worn on the body in accordance with instructions in this user guide is 1.54 W/kg. (Body-worn measurements differ among phone models, depending upon avail-

able accessories). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for RF exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID NRR-S4X.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>.

NOTE:

** In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.*

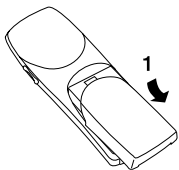
Getting started

Learn how to get your phone ready for action, and how to make and receive calls.

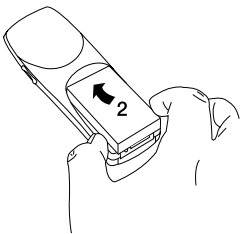
Battery and charging

Insert battery

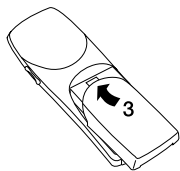
- 1 Remove the battery lid by pressing and sliding it towards yourself.



- 2 Insert the battery. Please make sure that the contact pins are facing against each other.



- 3 Slide the battery lid back into position.

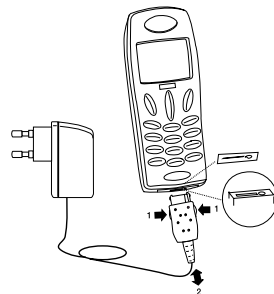


Facts & Tips

- When removing the battery your phone should always be switched off.
- The on/off key is the left-hand function key on your phone.

Charge battery




- 1 Insert the charger plug at the bottom of the telephone, and it will start charging immediately.
- 2 Fully charging the battery takes up to 120 minutes.



Remove charger

Press 1 and pull out the charger plug.

Facts & Tips

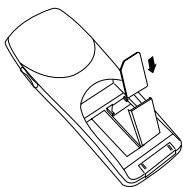
- Full performance from a new battery is only obtained after two or three complete charge/discharge cycles. Different batteries have different characteristics. Please familiarize yourself with your battery's normal cycle pattern.
- When your battery needs recharging, the phone will emit a short warning tone and inform you in the display that the battery needs charging, and the LED on top of the telephone will emit a fast red flash.
- If you don't connect the charger within a short while, the telephone will switch off automatically.
- If the battery is completely discharged, it may take up to 15 minutes before any information is shown in the display.
- The phone will inform you when the charger has been connected correctly.
- During charging the top icon of the battery indicator will animate a charging sequence changing from  to . When the battery is fully charged, the top icon will turn permanently into  and the indicators beneath it will be filled.
- For proper treatment of your battery please see the label on the back of the battery as well as the battery warnings on page 84.
- In the Setup menu under Graphics you can choose other kinds of battery indicator symbols.
- To maintain an accurate battery capacity indication, it is recommended to let the battery discharge completely from time to time.
- It is possible to use your phone during charging.

SIM card

Insert SIM card

Before you can make a call with your mobile phone, you need to insert the SIM card.

- 1 Switch off your phone. Remove the battery lid and the battery.
- 2 Open the SIM card holder by sliding the catch towards yourself and lifting the holder.
- 3 Insert the SIM card in the holder with its cut-off corner pointing up and left.



- 4 Close the holder and slide the catch back into place.
- 5 Insert the battery, attach the battery lid to the phone and switch the phone on.
- 6 Enter PUK or PIN code, if requested, and confirm by pressing («OK»).

The phone will display a welcome greeting.

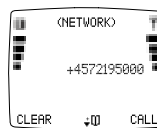
Facts & Tips

- Please remember that your SIM card must support 3V technology to work with this phone.
- The SIM card is your link to the network operator. The SIM card carries your phone number, your phone books and a lot of other information that will follow your SIM card if you put it in another phone.
- Please note that if you insert a new or another SIM card in your phone it might take a little while before you see the address and phone book symbol in the display.
- In this user guide you can see the full capability of your phone, but the availability of some of the features depends on your network operator and/or your SIM card. These features are marked with this symbol in the user guide.
- Most GSM networks allow you to make emergency calls both with and without a SIM card inserted.

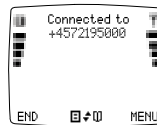
Calling

Making a call

- 1 Enter the phone number and press («CALL»).

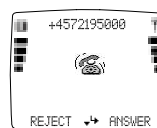


- 2 Press («END») to end the call.

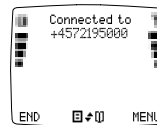


Answering a call

- 1 Press («ANSWER»), when the phone rings.




- 2 Press («END») to end the call.



Facts & Tips

- When making an international call, first enter “+” (hold down for one second) followed by the relevant national country code and then the telephone number.
- An incoming call is indicated by a ringing tone if enabled, a ringing symbol in the display, and a fast green flash in the LED.
- Use the side key on the right-hand of your telephone to increase and decrease the speaker volume during a call.
- Your phone is equipped with an internal antenna which is placed in the upper back part of the phone. To achieve optimum speech quality, maximum talk time, and ensure compliance with all applicable FCC RF exposure guidelines, you should always hold your phone by its lower part during a call. If you carry the phone in a pocket, the back of the phone should always face away from your body.
- Please read the FDA update on Mobile Phone Safety at the end of this Guide, in the 'Further Information' Section, for additional usage information.



Redialing a number


Press  for one second, and the latest dialed number will be redialed automatically.

If you wish to use this feature, activate the speed dial function first. See p. 64.

Silent mode

You can disable all selected tones:



- 1 Press  (»MENU«)
- 2 Press 

The symbol  will be seen in the display.

Just press these two keys again in the same order to revert to your original settings.

Keypad lock

To avoid making calls accidentally while carrying your phone, you can lock the keypad:

- 1 Press  (»MENU«)
- 2 Press 

The keypad lock is, however, automatically disabled:

- during an incoming call until you have finished the conversation
- when the telephone is placed in a handsfree car kit



Just press these two keys again in the same order to unlock the keypad.

Set clock

In order to activate the clock you must set the time and date. See p. 71 for more information.

Pressing the left-hand function key briefly in stand-by position will display the time, date and week number.

Facts & Tips

- *Take notice of the display texts. The display text right above the function keys  and  will inform you of the current function of the key at any time.*
- *Please note that the menus are dynamic. This means that your phone does not always give you all the options listed in this user guide. This is because your phone shows an option only if it is available. For instance you cannot choose to see the list of missed calls if you have not missed any calls.*
- *All tones can also be disabled in the Setup menu under Tones setup.*
- *In the Setup menu under Security you can set the keypad to lock automatically.*
- *It is possible to make emergency calls when the keypad lock is activated.*

Address and phone books

Learn how to store and find entries in your address and phone books.

Text input

Using the keypad

Each key on your phone's keypad contains a number of characters.

The keypad can be operated in 4 ways: Alphanumeric wheel and grid modes, T9 mode, which is very useful in connection with SMS messages, plus digit-only mode.

Switching between the different modes is done by pressing the side key on the right-hand of the phone.

Press »CLEAR« briefly to delete one character.

Press »CLEAR« for one second to delete the entire text.

ABC wheel mode

The characters available on each key will depend on the keypad language you have selected for your phone (see p. 70). The keypad language is standard set to the GSM default alphabet, giving you the following characters.

1 0	2 ABC	3 DEF
1,.,!?!@;:~"'^&\$%&	ABC2 ÆÀàÄÇ	DEF3 ÈéΔΦ
4 GHI	5 JKL	6 MNO
GHI4Γì	JKL5Λ	MNO6 ÑØøðΩ mno6 ñøððΩ
7 PQRS	8 TUV	9 WXYZ
PQRS7 βΠΨζ pqrs7 βΠΨζ	TUV8üù(+))	WXYZ9Ξ
* +	0 →→	# P
* +	0+*=*_% /\ (){} <># \$£ ¥€	Space #

Having selected English as keypad language, the following characters will be available on each key:

1 0	2 ABC	3 DEF
1,.,!?!@;:~"'^&\$%&	ABC2 abc2	DEF3 def3
4 GHI	5 JKL	6 MNO
GHI4 ghi4	JKL5 jkl5	MNO6 mno6
7 PQRS	8 TUV	9 WXYZ
PQRS7 pqrs7	TUV8 tuv8	WXYZ9
* +	0 →→	# P
* +	0+*=*_% /\ (){} <># \$£ ¥€	Space #

Press once to enter the first character, twice to enter the second character, etc.

Press 3 times if you want to enter a capital letter. To activate the caps lock function, press 4 times. Press it once again to deactivate the function.

ABC grid mode

Press the relevant key for the intended letter, e.g. B. Now a table is shown in the display. Press the key corresponding to the intended letter (B = 2).

Which characters available on each key will depend on the keypad language you have selected for your phone (see p. 70). Additional language specific characters are accessed by pressing .

The first letter will always be capitalized, which is indicated by the symbol in the upper right-hand corner of the display. The second letter will automatically be lower-case. Press if you want to enter a capital letter again.

The caps lock function is enabled by pressing twice. As long as the caps lock is active, the sym-

bol will be seen in the upper right-hand corner of the display. Press again to disable the caps lock function.

Press if you want to enter digits. Press the relevant key to enter the intended digit.

To get punctuation and symbols press . You now have access to five different pages, each containing up to 9 symbols. You can scroll through the pages using the arrow keys. Press the relevant key to enter the intended symbol, e.g. on page one, 7 corresponds to "®".

T9 mode

T9[®] Text Input is a feature enabling you to more easily use SMS messaging. The T9 feature allows you to compose text messages with only one keypress per letter. See p. 46.

123 mode

In this mode you can enter only digits.

Facts & Tips

- Please observe that changing the menu language of your phone will not affect the keypad language and the T9 language as they are totally independent. Changing the keypad and T9 language is done manually in the Message Setup menu.
- When you change the menu language of your phone, it is advisable to change the keypad language accordingly.

Address book

Your telephone contains a complete address book similar to the address book on a PC.

Just follow the instructions below to store an entry. See on p. 18 how to use the keypad on your phone.

Storing information in your address book

- 1 Enter the phone number and press ▼.
- 2 Select »Address book« by pressing »SELECT«.
- 3 Press ▼ to select whether you want to store the number as a
 - Home number
 - Office number
 - Mobile number
 - Fax number
 - Data number
 and confirm by pressing »SELECT«.

- 4 Press »SELECT« to access the name box.
 - 5 Enter the name and press »OK«.
 - 6 Press ▼ to move to the next box.
- You can enter information about
- Group (see p. 31)
 - Other phone numbers than the one entered
 - E-mail address
 - Address
 - Birthday
 - Notes
- 7 Press »SELECT« to access the box where you want to enter information.
 - 8 Enter the information and press »OK«.
 - 9 When you have entered all the information you want, press »SAVE«.

The telephone will now ask you whether you want to store the new entry.

If you press »YES«, the phone will store the new entry.

If you press »NO«, the phone will ask you whether you want to go back to the entry.

- If you press »NO« at this stage, all new data will be discarded and deleted.
- If you press »YES«, the phone will revert to 5 for possible changes.

Phone books

Your telephone contains a number of phone books, which are stored on your SIM card. The plain numbers phone book is always available, whereas your SIM card determines the availability of the other phone books.

Storing an entry

- 1 Enter the phone number and press ▼.
- 2 Press ▼ again to select the phone book in which you want to store the number
 - Plain numbers
 - Fixed numbers ^(*) ↓
 - Own numbers ^(*) ↓
 - Barred numbers ^(*) ↓
 and confirm by pressing »OK«.
- 3 Enter the name and press »OK«.

Plain numbers

This is an easy-to-use phone book where you just store names and telephone numbers. If you store the names and numbers from your address book in the plain numbers phone book, you will be able to dial these numbers if you use your SIM card in another phone.

Fixed numbers ^(*) ↓

With the help of this extra phone book you can restrict the use of your phone to only numbers stored in this special phone book.

To activate/deactivate fixed dialing, see under Security in the setup menu on p. 73.

Own numbers ^(*) ↓

This is simply an extra phone book where you can store your own telephone number(s).

How many numbers you can store depends on your SIM card. Normally, you will have the same

options as in your other phone books, but your network operator may have imposed some restrictions.

Service numbers ^(*) ↓

This service number phone book typically contains customer care, hotline service numbers, etc. The contents are defined by your network operator and cannot be changed by you.

Your network operator may have given this phone book another name.

Information numbers ^(*) ↓

Numbers stored in this phone book are typically numbers for taxis, airports, hotels, weather forecasts, news, etc. The contents are defined by your network operator and cannot be changed by you.

Phone books

Barred numbers ⁽⁶⁻⁹⁾

In this phone book you can store numbers that it should not be possible to call from the phone.

To activate/deactivate barred dialing, see under Security in the setup menu on p. 73.

Prefix phone numbers

In prefix numbers the first digits in the number are the prefix (the same for e.g. the whole company), and the last digits are related to a specific person or office.

If you want to store the prefix part of such a phone number in your phone book, this is done in exactly the same way as when you store a normal phone number in your phone book. Only, instead of each of the additional digits that vary from time to time, you enter a »?«. This is done by holding down the **⌘** key for approx. 2 seconds.

If you want to call a prefix number you must enter the digits to replace the " ? " after having pressed »OK« (see **5** in the next column).

Finding an entry in your address and phone books

- 1 Go to the address and phone book entry list: ▼ .
- 2 Scroll through entries: ▼ and ▲ .
- 3 Press »SELECT« to access a group.
- 4 Having found the desired name: Press »DETAIL« to see the numbers stored.
- 5 Calling a number:
Select »OPTION«, »Call« and press »OK«
or
Hold down »DETAIL«
or
Just press the relevant speed dial number (1=Home, 2=Office, etc).

Facts & Tips

Both address and phone books

- *Calling Line Identification (CLI) is a network feature which displays the caller's phone number in your phone's display. If the caller is one of the entries stored in your phone book, his/her name will appear in your display.*

- *When storing a phone number start entering it with a "+" (hold down **Ⓢ** for one second) followed by the national country code, and you can use your phone abroad without worrying about international codes.*

- *In the Call setup menu you can activate the speed dial function enabling you to call a number by pressing only one key.*

- *Use the side key for quick scrolling through your address and phone book entries. Each keypress brings you to the first entry beginning with the next letter in the alphabet. Of course, you can also use the arrow keys to scroll from one entry to the next.*

Address book only

- *Entries stored in the address book are marked by **☎** .*

- *The number of entries that can be stored in your address book depends on the length of the entries.*

- *The address book is located in the internal memory of the phone and consequently you will not have access to it if you use your SIM card in another telephone.*

- *You can also synchronize your address book with the address book in Microsoft Outlook on a PC by means of the enclosed CD-ROM. To do this, install the synchronization programme (XTND Connect PC) on your computer.*

Phone books only

- *Remember that ⁽⁶⁻⁹⁾ indicates the option depends on your SIM card and therefore may not be available.*

- *Entries stored in the phone books on your SIM card are marked by a **☎** in front of them.*

- *Phone book entries contain only a name and a phone number.*

- *The maximum number of entries and the length of phone book entries will depend on the capacity of the SIM card.*

- *When there is no more memory capacity left in either of the phone books, the option »Add entry« will disappear from the display.*

- *In order to access fixed and barred numbers you need to have a PUK 2 code from your network operator and to use a PIN 2 code of your own choice.*

Reset phone memory

Because your phone can synchronize with different platforms, outside factors might spoil the phone's functioning. If this happens, you can reset the phone memory.

Proceed in the following way:

- 1 Switch off your phone.
- 2 Remove the SIM card.
- 3 Switch on your phone again.
- 4 Press * # 337 #

The resetting lasts for approx. 1 minute. During this period the LED on top of the phone will light and the display will indicate that the memory is being reset. When the LED and the display switch off the resetting is completed.

- 5 Insert your SIM card and switch on your phone again.

Note: Resetting the phone memory means that your address book entries, voice memos, events, own

ringing tones and own WAP profile settings are lost. However, this is also an easy way to delete all of the above-mentioned items if you should want to do so.

Other ringing tones and WAP profiles than your own ones will be reset to the default factory settings.

List menu

See how to get information about your calls and messages and how to edit your address and phone books.

List menu



General

Enter the List menu: ▲
 Scroll through the options:
 ▼ and ▲
 Select an option:
 Press »SELECT« or »OK«
 Go back one level:
 Press »EXIT«
 Go back to standby:
 Hold down »EXIT«

Here is a brief overview of the options that you may see when you enter the List menu. Please remember that the menus are dynamic.

The options are described in detail on the following pages.

SIM Application toolkit (SAT) ^(*) ↓

- The availability, name and functions of this menu depend completely on your network operator and/or your SIM card. If this menu item is available on your SIM card, you will always see it as the first menu in the List menu. The menu is typically used for providing information like news, weather forecasts, lottery or banking services.

Outgoing calls

- View names/phone numbers of your latest outgoing calls

Answered calls ^(*) ↓

- View names/phone numbers of your latest answered calls

Missed calls ^(*) ↓

- View names/phone numbers of you latest calls received but not answered

Phone books

- Access to different options with your address and phone books

Status

- View the status of your SIM card, address and phone books, voice memos, and messages

Calculator

- Use your phone as a standard calculator

Voice Memo

- Find, add or delete voice memos

Calendar

- View your events
- New event
- View week planner
- Go to other date
- Delete events automatically
- Delete events automatically after a certain period
- Delete all events at once

Missed events

- View the events you have missed

IrDA operation

- Receiving
- Synchronization and data
- Send business card

WAP browser ^(*) ↓

- Access to the Internet

Messages ^(*) ↓

- Inbox for received SMS messages
- Outbox for SMS messages ready to be sent
- Sent messages
- Drafts for unspecified messages ready to be sent
- Send new messages
- Favorite messages
- Read broadcast messages
- Check your voice mail

Facts & Tips

- Remember that ^(*) ↓ indicates that the option depends on your SIM card and therefore may not be available.
- Remember, your phone's list features, like all features should not be used when it would distract you while driving or performing any other task where your inattention could cause a hazard to you or others.


Call lists



First

Enter the List menu by pressing ▲
Select one of the following options

Direct access to the list of missed calls

When you have missed one or more calls, the symbol  is shown in your standby display together with the number of missed calls. You get direct access to the list of missed calls simply by pressing ▲.

Options in call lists

Having selected a number from one of the call lists you can press »OPTION« and

- **Call** the number.
- **Delete** the number.
- **Save** the number in your address book or in one of the phone books.

Outgoing calls

See a list of your last dialed telephone numbers. The number of phone numbers shown depends on your SIM card.

Answered calls

See a list of the last 10 calls you have received and answered.

Missed calls

See a list of the last 20 calls that you received, but did not answer.

Facts & Tips

- *As the telephone registers only identified calls in the list, the number of missed calls shown on the standby display and the number of phone numbers actually listed may differ.*
- *If you call a number from the list of missed calls, that number will be removed from the list, but you can retrieve it from the list of outgoing calls.*
- *The detailed view of a missed call will contain the name and/or phone number, the date and time of the call, as well as the number of times the caller has called.*

Address and phone book editing



First

Enter the List menu by pressing ▲
Select »Phone books«
Select »Address book« or one of the phone books

Add entry

Select »Add entry« if you want to add a new entry (See pp. 20-21).

View entries

This provides a variety of options, such as calling, editing or moving the entries. These options are described in greater detail in the following.

- 1 Having selected »View entries« you must place the cursor on the entry you want to view.
- 2 Press »DETAIL« to see the contents of the entry.

3 Press »OPTION«

4 Select one of the following options.

• **Call:** If the entry is stored in your address book and contains more than one number, you will have to specify whether you want to call the home, the office or the mobile phone number.


• **Edit:** You can edit the contents of the entry, e.g. change the office phone number. Use the arrow keys to move from one edit box of the entry to another.

Select the edit box you want to edit, make your corrections and press »OK«. Use »CLEAR« to delete faulty characters and enter the correct ones via the keypad. Press »SAVE« when you have finished your corrections.

The telephone will ask you to confirm the changes. If you press »YES« the changes are stored automatically.

If you press »NO«, the phone will ask you whether you want to go back to the entry.

If you press »NO« at this stage, all new data will be discarded and deleted.

If you press »YES«, the phone will revert to .

Facts & Tips

- *You can also add entries simply by pressing ▼ after entering a phone number in standby mode.*
- *You can also view entries in your address and phone books simply by pressing ▼ in standby mode.*
- *Service and info number phone books cannot be edited.*

Address and phone book editing



First

Enter the List menu by pressing ▲

Select »Phone books«

Select »Address book« or one of the phone books

books to the address book or to another phone book. When copying an entry you will always be able to edit the name.

- **Delete:** If you want to delete an entry stored both in your address book and in one of your phone books, you will have to delete it in both books. If you delete only the address book entry, it will still remain in the phone book.

- **Send:** You can send the contents of an address book or phone book entry to another mobile telephone via IrDA (Infrared interface).

- **Print:** It is possible to print out an address or phone book entry via IrDA.

View entries *(continued)*

- **Move:** Entries can be moved from your address book to one of your phone books. Only the name and the relevant phone number will be moved. You have to specify which phone number (home, office, mobile) you want to move and to which phone book you want to move it.

Entries can also be moved from one of your phone books to your address book or to another phone book. When moving an entry, you will always be able to edit the name.

- **Copy:** Just as you can move entries, you can copy your address book entries to one of your phone books, and from one of your phone

Facts & tips

- *When communicating via IrDA, the recommended distance for optimum transmission between your mobile phone and the receiving unit is 10 centimeters.*



First

Enter the List menu by pressing ▲

Select »Phone books« and then »Groups«

Groups

You can organise the entries in your address book (not your phone book entries) in groups, such as family, business, etc. This makes searching easier.

Create new group

- 1 Select »Create new group« and confirm by pressing »OK«.
- 2 Give the group a name and confirm by pressing »OK«.

You can now add entries to the group and select a ringing tone for the group, enabling you to hear from which group the call comes.

A list showing all your entries in your address book and a list of available ringing tones are presented.

Options in groups

Having selected a group you can press »OPTION« and:

- **View contents:** All entries in the group will be listed. Pressing »DETAIL« and then »OPTION« again will give you access to further options (pp. 29-30).

- **Add entry:** Once you have selected this option, all entries stored in your address book will be listed. Select the entry you want to add to the group.


- **Move:** Move the entry to another group or out of the group. Select the entries you want to move and press »MOVE«.

Select »Other group« if you want the entries to be assigned to a group. Otherwise, select »No group«.

- **Rename group:** Edit the name via the keypad and confirm the new name by pressing »OK«. The contents of the group will not be affected by the renaming process.

- **Delete group:** If you delete a group, its entries will remain in your address book, but will no longer be assigned to a group.

Facts & Tips

- *Choose a group name which is short and unambiguous as like Business, Family or Friends.*
- *Groups are marked by a  in front of them.*

Address and phone book editing



First

Enter the List menu by pressing ▲
Select »Phone books« and then »Groups«

• **Change group:** This option is available only if you have created more than one group.

If the selected entry is assigned to a group, the option »Change group« will be displayed. Select the group to which you want to move the entry. Press »SELECT«, and the phone will confirm that the entry has been moved to another group.

Groups *(continued)*

• **Ringing tone:** You can change the ringing tone used for the group.

• Add to group:

If the selected entry is not already assigned to a group, »Add to group« will be displayed. Specify the group to which you want the entry to be assigned and press »SELECT«. The phone will confirm that the entry has been added to the specified group.

• **Remove from group:** If you do not want the entry to be assigned to a group any longer, press »OK«, and the phone will inform you that the entry has been removed from the group.

Facts & Tips

• *When calling a number or receiving a call from a number which is assigned to a group, both the names of the caller and the group will be shown in the display.*

Status



First

Enter the List menu by pressing ▲
Select »Status«

Voice Memo This submenu shows you the status of your voice memos. See how many voice memos you have stored and the total time consumption. The free capacity will be shown as a percentage.

Status

In this menu you can see the status of your SIM card, address and phone books, voice memos, and messages.

SIM card This submenu shows you the status of your phone books and SMS messages. See how many entries you have stored and how many storage locations are free.

Phone This submenu shows you the status of your address book, your messages, and your calendar. See how many entries, messages, and events you have stored, and how many groups you have created. The free capacity will be shown as a percentage.

Calculator



First

Enter the List menu by pressing ▲
Select »Calculator«

In this mode, your telephone acts as a normal calculator. The equals sign (=) is found on the right-hand function key.

Enter the first number you want to use in your calculation and hold down the relevant key for one second to access the desired arithmetic operation.

Key Operation

- 1 Addition (+)
- 2 Multiplication (*)
- 3 Square function (x^2)
- 4 Subtraction (-)
- 5 Division (/)
- 6 Square root ($\sqrt{\quad}$)
- 7 Percentage (%)
- 8 Fractions (1/x)
- 9 Exponent (E)

- ✳ M+ or decimal point (press briefly)
- 0 M=
- ⌘ MR or -/+ (neg./pos.) (press briefly)

If you store a number in the memory, this is indicated in the upper left corner of the display by M= and the number stored.

The memory is reset each time you switch off your phone.

Quick survey

By pressing ▲ once or ▼ twice you can open a list showing which arithmetic operator is placed on which key. An arithmetic operation can then be selected directly from the list by briefly pressing the assigned key.

To exit the quick survey and return to the calculator just press the left function key.

Facts & Tips

- *The calculator will remain active in the display for 3 minutes. If you want to get back to standby mode, press »CLEAR« and hold down »EXIT« for one second.*

Voice Memo



First

Enter the List menu by pressing ▲
Select »Voice Memo«

Voice Memo

Your phone contains a voice recorder with an effective capacity to record 5 minutes of speech. The number of voice memos that can be stored depends on the length of the memos. Voice memos can be recorded and played back whether or not you are in the middle of a conversation.

Check memos Enter this submenu if you want to check or edit your voice memos. Pressing »OPTION« gives you the following possibilities:

- **Play** back the voice memo.
- **Extend** the voice memo. If there is more memory left, you can add speech to an existing memo. Press »OPTION« at any time and the

new speech will automatically be added at the end of the existing voice memo.

- **Edit** the title of the voice memo.
- **Delete** the voice memo.

Record new memo Enter this submenu to record a new voice memo.

- 1 Press »OK«, and the recording starts automatically.

To make a pause, press ▼
To continue recording, press ▼ again.

- 2 Press »STOP« to end the recording.

The phone now suggests a title for your voice memo. You can accept the suggested title by pressing »OK« or you can delete it by holding down »CLEAR« and enter a new title of your own choice. Press »OK« when you have entered your own title.

To cancel a recording, after you have started it, press »CANCEL«.

Delete all memos Enter this submenu to delete all your voice memos.

Facts & Tips

- *In the upper right-hand corner of the display you can see the recording time in minutes and seconds.*
- *The memory status bar just above the function key text lines indicates how much memory you have left.*
- *An incoming call will interrupt recording and play back of a voice memo.*
- *In the List menu under »Status« you can see how many voice memos you have stored and the total time consumed.*
- *In the description of the Conversation menu on p. 77, you can see how to record an ongoing conversation.*

Calendar



First

Enter the List menu by pressing ▲ Select »Calendar«

Calendar

Use your phone to remind you of different events such as meetings, phone calls to be made, birthdays, etc. To ensure the proper functioning of the calendar it is an absolute condition that you set the actual date and time in the Calendar Setup menu (p. 71). The calendar is active even when the telephone is switched off.

View events Each date under which one or more events are stored will be listed, shown with the day of the week and the date. Use the arrow keys to scroll through the dates. If a date is highlighted for more than 2 seconds, the times of the first events on that date will be displayed.

Press »SELECT« to read the event details.

In addition to reading the event details, you can press »OPTION« and :

- **Delete** the event.

- **Edit** the event.

- **Send** the event to another mobile phone or a PC via IrDA.

- **Print** the event via IrDA.

New event When adding a new event, you can choose among the following event types:

- »Custom setup«
- »1 hour meeting«
- »Standard alarm«
- »Birthday«
- »Wake up alarm«

In the custom setup you can define any setting to suit your requirements. The options available are: Set start time/date and set end time/date, enter event text, select

List menu

recurring frequency, select tone pattern, and define advance notice for the event.


You can decide that a »Custom setup« or a »Wake up alarm« event should be recurring (repeated).

This is useful if you have a weekly meeting, if you want to be reminded about e.g. a birthday every year or if you want to use your phone as an alarm clock.

You can select one from among 6 predefined recurring frequencies or you can specify a date/time until which you want the event to be repeated, or select »No end date« to have the event repeated continuously.

If you want to change the current time and/or date settings, see the description in the Setup menu on p. 71.

Being notified of an event

An occurring event will be indicated by  in the display, the phone will emit a ringing tone and the LED on the top of the phone will

List menu


flash green very fast. If the phone is switched on, the trembler will be activated if you have selected this option in the Tones setup menu. (See p. 58).

The first line of the event text will be visible in the display. Use ▼ to see more of the text.

The phone will continue ringing for one minute if you do not acknowledge the event by pressing »OK«.

The event will automatically be deleted after a certain period of time specified by you, unless you have selected that you don't want it to be deleted. (See p. 71).

Postponing an event

Press »REMIND« if you do not have the time to read the event text right now. The  symbol will be seen in the display after one minute. The digit above the symbol indicates the number of postponed events. The event will recur after 10 minutes. The phone will repeat the event twice. Press ▲ to see the

contents of the events you have postponed. (See p. 38 for further information).



Show week View your appointments for a whole week. Use the arrow keys to scroll through the weeks. If you want to change the daily start and end times of your calendar you can do so in the »Start of day« option in the Setup menu (p. 71).

Go to date Select a specific date. The events occurring on or after the specified date will be listed as described under »View events«.

Delete events Select this option to delete all events older than a certain period specified by you.

Delete all Select this option to delete all events at once.

Facts & Tips

- The  symbol in front of the time/date indication (Display time/date function must be activated) in the standby display shows that an event is occurring on that date.
- A recurring event will be marked by  to the left of the starting time. If you want to delete a recurring event, the telephone will ask you for confirmation to delete it.
- A √ in the upper right corner of the display indicates that the week shown is the current week.
- The number between the arrow keys at the bottom of the display indicates the number of the week shown.
- You can also synchronize your calendar with the calendar in Microsoft Outlook on your PC by means of the enclosed CD-ROM. To do this, install the synchronization programme (XTND Connect PC) on your computer.


Missed events



First

Enter the List menu
by pressing ▲
Select »Missed events«

Missed events

If an event occurs and you do not acknowledge it the missed event symbol  will be seen in the display. The digit above the symbol indicates the number of missed events. The event will recur after 10 minutes. The phone will repeat the event twice. Press ▲ to see the contents of the events you have missed.

Use the arrow keys to scroll through the dates of the missed events. After 2 seconds the receipt time of the missed events of the highlighted date will be listed. Press »SELECT«. After 2 seconds the text of the first missed event of the date selected will be displayed. Use the arrow keys to scroll through the missed event times, if

you do not want to read the first one.

Press »SELECT« again and then »OK«. The event will now be deleted from »Missed events«, but you can always find it again in »View events« under »Calendar« in the List menu as long as the event hasn't been deleted here.

If you have accessed the missed events by pressing ▲, but not read the event text and pressed »OK« they will remain in »Missed events« in the List menu.

Facts & Tips

- Remember that this menu is dynamic. This means that if there are no missed events, the menu will not be visible in the List menu.

IrDA operation



First

Enter the List menu
by pressing ▲
Select »IrDA operation«

IrDA operation

The built-in IrDA modem allows wireless communication to take place between your phone and computer, provided your computer is equipped with an IrDA interface as well, and provided you have installed the necessary IrDA drivers in advance.

The CD-ROM supplied with the telephone will provide you with the required software and information.

When communicating via IrDA, the recommended distance for optimum transmission between your mobile phone and the computer is 10 centimeters.

You may operate your phone as follows:

Receiving In order to receive messages, etc. via the infrared interface, you have to activate the IrDA port in this submenu.

If a connection is established successfully, the IrDA port will automatically be deactivated 1 minute after the end of the transmission.

If no connection is established within 1 minute, the IrDA port will automatically be deactivated, and you will have to activate it again to be able to receive a message.

Synch and data Select this submenu to activate the synchronization and data capability.

Send business card The information defined by you in your Owner ID in the Setup menu (see p. 63) can be sent as a business card to another device via IrDA.

Facts & Tips

- When your phone is connected to a data cable it is not possible to send and receive via IrDA.

WAP browser



First

Enter the List menu by pressing ▲
Select »Browser Menu«

Browser Menu

Your phone supports WAP (Wireless Application Protocol) based services. WAP is a technology designed to provide you with wireless access to the Internet.

The contents of the individual services depend on the network service provider, and you must follow the provider's instructions to make use of the services. Typical WAP applications are news, weather forecasts, online banking, flight schedules, etc.

Before you can use the WAP services via the telephone, you must set up the WAP connection settings in the Message setup menu (p. 69). Your network service provider may have already set your Internet access profiles for you.

In the following description, a »card« refers to what you see in one screen on the display. You can scroll through different cards by means of the arrow keys. A collection of cards which belong together is referred to as a »deck«.

Activating the WAP browser

The WAP browser will be activated automatically when you have selected »Browser Menu« in the List menu.

The first time you activate the WAP browser, it will take a few seconds before the Home deck is presented to you, as the WAP browser needs to contact the gateway and maybe calculate a security key.

After this first activation the Home deck will be stored in the WAP browser memory cache allowing immediate display without connection to the gateway.

The phone will inform you whether the data transmission between your phone and the gateway is secure (encrypted) or not.

Navigating with the WAP browser

When the connection to the gateway has been established, the Home deck will be shown in the display.

Some of the listed selection cards have a number in front of them. To select a card, scroll through the items by means of the arrow keys and confirm by pressing »Link«, or press the corresponding number key. Use the arrow keys to scroll up and down in the actual card.

Go to link

When one or more lines are underlined, a link is selected. Press the right-hand function key to display the card corresponding to the link. The text above the right function key may vary from card to card.

Go to previous card or deck

Press »BACK«.

Go to Home deck

Hold down »BACK« for 1 second.

Exit the browser

Press »QUIT« when the Home deck is displayed, or hold down »BACK« for more than 2 seconds. You can also exit the browser by holding down the side volume-up key on the right-hand side of the phone.

Some cards give access to an option menu where you can find more functions. Press »OPTION« to enter the menu.

Using the WAP browser menu

The browser menu is accessed by means of the volume-down side key on the right-hand of the telephone. The browser menu includes the following sub-menus:

Reload

Reload one or more cards from the server or from the internal memory of the phone in order to update old cards.

Home

Return to your Home deck.

Bookmarks

A list of often visited cards enabling you to get fast access to these cards as you don't have to enter the full URL address each time you want the card to be displayed.

Available only when you are connected to a Phone.Com. gateway.

Mark site

Mark the current card to add it to the list of bookmarks.

Available only when you are connected to a Phone.Com. gateway.

Facts & Tips

- The Home deck is your WAP service main menu.
- The cache is a special memory where the cards you have visited during an Internet session are stored. When you return to a previously visited card, the browser will display it from the cache instead of retrieving it again from the server, which results in a much shorter access time.
- The WAP browser feature is undergoing continuous development and tests. We therefore reserve the right to make changes and improvements of the descriptions in this user guide without prior notice.

WAP browser



First

Enter the List menu by pressing ▲

Select »Browser Menu« and press the volume-down side key on the right-hand side of the phone.

About Phone.Com

See the current UP. Browser and RSA version.

Advanced

Here you find the following sub-menus:

Show URL Each deck has a URL address (Uniform resource locator). Select »Show URL« to see the URL address of the selected deck.

Homepage Enter the URL address for a new home deck.

Set UP link Select WAP gateway in profiles with more than one gateway. Depends on your network operator.




Offline service Specific downloadable Phone.Com services (e.g. mail or calendar), which can be used when you are offline. If necessary, the services will be updated when you are online again.

Outbox Contains messages from the Offline service ready to be sent.

Restart UP browser Deletes the previously visited cards stored in the cache and will bring you back to your home deck.

Encryption List of actions for verifying and resetting the security key used to encrypt secure connections.

Facts & Tips

- *The scroll bar at the right-hand side of the display indicates the amount of text before and after that actually shown in the display.*
- *The data online indicator  is flashing only during a data call. Under Display symbols on p. 83 you can see other indicators related to the WAP browser.*
- *The editor modes  and  cannot be used when operating the WAP browser. However, a special symbol entry mode is available. To access this mode, press »OPTION«, and then »More«.*
- *When operating with entry cards, press ▼ to move the cursor to the right, and ▲ to the left. Holding down the keys will move the cursor 1 line down or up, repeatedly.*

Messages



First

Enter the List menu by pressing ▲

Select »Messages«

Messages


Your phone can receive and send messages via the network. Messages are stored on your SIM card.


Composing or retrieving messages can be extremely dangerous if done while driving, operating machinery or engaged in any other task where your inattention might cause a hazard to yourself or others. Please remember that safety is your first responsibility.

Entering this menu lets you access the following features:

Inbox The messages you receive are automatically stored in the »Inbox«. Select the message and scroll through it by using the arrow keys.

• Direct access to your inbox

When you receive a new message the symbol  appears in the middle of your standby display. You can access your inbox directly simply by pressing ▲.


The unread messages indicator  will be shown in your standby display while you have one or more unread messages.

• Immediate SMS messages ^(*)

Your network might send you some or all your messages as immediate SMS message. An immediate SMS message will immediately appear directly in your display when received, and you can read the entire message by scrolling through it by means of the arrow keys. An immediate SMS message will not be automatically stored in your inbox, but you can save it by pressing »SAVE«.

If you want to reject and delete the message, press »EXIT«.

Facts & Tips

- *The standby display will display symbols to show if there are voice mails or other messages waiting for you on the network. The digit above the symbol indicates the number of waiting messages.*
- *If your message memory is full, you will be asked to delete some messages to free up capacity. Specify whether you want to delete messages in your Inbox, Outbox, Drafts or Sent items. The  symbol will be flashing until you have deleted one or more messages.*
- *Read about message tones in the description of the Tones menu on p. 58.*

Messages



First

Enter the List menu by pressing ▲
Select »Messages«

Outbox If you have entered an SMS message, but do not want to send it right away, you can store it in the Outbox by selecting »Save message«.

Sent items The messages you send are automatically stored under »Sent items« from where they can always be retrieved again.

Drafts If you do not want to send your message right away and have not yet decided how to send it, select »Save message«, and your message is automatically stored in »Drafts«.

Options with your messages

In addition to reading your messages, you can select the message, press »OPTION« and:

- **Delete** it
- Send a **reply** (only in inbox)
- **Forward** it to another phone number
- **Edit** it before sending it
- **Print** it via IrDA
- **Call back** the sender (only in inbox)

New message To send a message you have to specify certain parameters if these have not already been specified by your network operator. Enter the Message setup menu to set up these parameters once and for all – otherwise you will be asked to specify them each time you wish to send a message.

By default, your phone is set to use the Wheel mode editor when composing your message. However, you may find it more convenient to switch to the built-in T9®

text input feature. T9® enables you to compose text messages with only one keystroke per character. (See p. 46).

- 1 Once you have selected »New Message«, you can start entering your message.
- 2 Press »OK« when you have completed your message.
- 3 Select whether you want to send the message as an SMS message or via IrDA.
- 4 Press »YES« to send the message. Press »NO« to store it in your Outbox.
- 5 Select »Save message« if you want the unspecified message to be stored in »Drafts«.

• Send as SMS

To be able to send SMS messages you have to enter your network operator's telephone number for this special service and to set up different parameters for your messages. Enter the Setup menu to set up these parameters once and for all. See p. 67.

• Send via IrDA

If you select »Send via IrDA«, your phone will automatically activate the IrDA port. If a connection is established successfully, the IrDA port will automatically be deactivated after the end of the transmission.

If no connection is established within 1 minute, the IrDA port will automatically be deactivated and you will have to try again.

Facts & Tips

- *If while writing a message you are interrupted by an incoming call, your message will be stored automatically in »Drafts«.*
- *When communicating via IrDA, the recommended distance for optimum transmission between your mobile phone and the receiving unit is 10 centimeters.*
- *Remember, your first responsibility is safety. Use extreme caution with using message features while driving.*

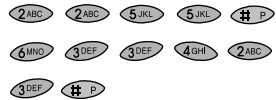
Messages

T9®text input feature

This is a feature enabling you to more easily use SMS messaging. Unlike the conventional way of entering/editing texts where you have to press one key up to several times to enter the desired letter, the T9 feature allows you to compose text messages with only one keypress per letter.

T9 Text Input compares your keypresses to words in its own linguistic database and displays the most commonly used matching word.

Example: Try to type »Call office« by pressing the following keys in order:



As you saw, the displayed word changed as you typed it. Therefore, always type to the end of the word before you start editing.

If the displayed word is the one you intended, just press # P to insert a space before the next word and continue entering the next word.

If the displayed word is not the one you intended, use the arrow keys ▲ and ▼ to scroll through alternative word choices. When you see the correct word, press # P to insert a space before the next word and continue entering the next word.

When you have completed your message, press »ACCEPT« to confirm the last word and then »OK« to send the message.

The first letter will always be capitalized, which is indicated by the ↑ symbol in the upper right-hand corner of the display. The second letter will automatically be lowercase. Press * + if you want to enter an uppercase letter again.

If you want to activate the caps lock function, press * + twice. While the caps lock is active the symbol ↑ will be seen in the display. To disable the caps lock function, just press * + again. To enter digits into your message, press 0 >> .

A grid of digits appears and you can press the digit you want to enter.

In T9 mode, periods, hyphens and apostrophes are automatically inserted in the highlighted word by pressing 1 a.b .

Additional punctuation and symbols can also be accessed by pressing 1 a.b . You will now have access to five different pages containing up to 9 symbols each. You can scroll through the pages by using the arrow keys. You select the intended symbol by pressing the relevant key, e.g. on page one 7 corresponds to "@". Just press »EXIT« to return to your text message if you do not want to enter an additional punctuation.

Typing words not found in the T9 linguistic database

- 1 While in T9 mode, press the side key until the REC # or REC # indicator appears in the display.
- 2 Type the word.
- 3 Press the side key until the T9 indicator appears in the display again, and continue using T9 mode.

Adding words to the T9 linguistic database

Follow steps 1 to 2 as described above. When you have completed the word you want to store, press the side key to return to T9 mode. The word is automatically stored in the database.

Writing compound words

Long, compound words may not be in T9's linguistic database, but often their individual parts are available. Enter the first part of the word, press »ACCEPT« and then enter the second part.

The memory of the database can be filled. When this happens, words which are never or rarely used will be deleted to make room for the words you want to store.

Different T9 languages

The T9 linguistic database is offered in a variety of languages and is independent of the language of your phone. Normally you will probably set your phone to your local language, but from time to time it might be convenient to select other languages.

Selection of the T9 language is explained in the Setup menu under Message setup (p. 70).

Disabling the T9 feature

If your normal local language is not supported by the T9 database, you have to enter your text messages in the conventional way with multiple presses per letter, and if this is the case, it may be convenient to disable the T9 feature.

Messages



First

Enter the List menu by pressing ▲
Select »Messages«

Favourites Instead of entering your own message you can make use of the "Favourites" which are standard messages already stored in your phone. You only need to insert the name, place or time in the empty spaces. The cursor automatically points to the first empty space. Once you have filled this in, you can move the cursor to the next empty space simply by pressing »NEXT«.

Broadcasts ⁽⁶⁰⁾ Broadcasts are general messages which are sent to a group of subscribers, typically containing local weather reports, sports results, etc.

A broadcast message is scrolled twice over the display. If you do not see the message when it is received, you can read it later on by selecting »Broadcasts«.

If you do not store a broadcast message, it will be deleted when you switch off your telephone – even if the message has not been read.

In addition to reading a broadcast, you can select it, press »OPTION« and:

- store it for reading it later on
- forward it to another phone number

If you want to receive broadcast messages, you have to enter the Setup menu (see p. 68) to set up this feature.

Voice mail ⁽⁶⁰⁾ Some networks offer a voice mail function where you can listen to your voice mails just by selecting the submenu »Voice mail«.

Other networks send you an SMS message when you receive a new voice mail, and you will then have to call your network operator's voice mail number to listen to it.

Facts & Tips

- *If you have selected Roaming, i.e. if you are abroad and connected to a foreign network, you may be able to receive broadcasts from other networks, too.*
- *The phone will show the broadcast ID number, allowing you to identify the kind of message received.*
- *The phone will show on which line your voice mail is located.*

Setup menu

Find out how to set your phone according to your own personal wishes and needs.

Setup menu



General

Enter the Setup menu:

Press »MENU«

Scroll through the options:

▼ and ▲

Select an option:

Press »SELECT« or »OK«

Go back one level:

Press »EXIT«

Go back to standby:

Hold down »EXIT«

Here is a brief overview of the options that may be available when you enter the Setup menu.

The options are described in detail on the following pages.

Network services

- Call divert ^(*) ↓
- Call barring ^(*) ↓
- Call waiting ^(*) ↓
- Call back ^(*) ↓
- Calling name presentation ^(*) ↓
- Call deflection ^(*) ↓
- Closed user group ^(*) ↓

Network selection

- Automatic/manual selection ^(*) ↓
- Preferred list ^(*) ↓
- Country selection ^(*) ↓
- Selection of network type ^(*) ↓

Tones setup

- Ringing tone
- Message tone
- Broadcast tone
- Composer (your own tone)
- Delete own or downloaded ringing tones
- Key tone
- Silent mode
- Trembler
- Factory settings

Setup menu

Phone setup

- Language ^(*) ↓
- IrDA
- Backlight
- Handsfree
- Greeting
- Signal diode
- Graphics
- Owner ID

Call setup

- Outgoing call ID
- Speed dial
- Caller access
- Automatic redial
- Any key answer
- Timer & charge ^(*) ↓
- Incoming call setup (fax/data)
- Line selection ^(*) ↓

Setup menu

Message setup

- Send SMS setup
- Broadcast setup
- Sorting of messages
- WAP browser setup
- Text input setup

Calendar setup

- Set time
- Set date
- Display time and date
- Define start of day
- Remove events automatically

Security

- PIN code on/off and change of PIN code
- Change PIN2 code
- SIM lock on/off
- Change network password ^(*) ↓
- Encryption indication on/off ^(*) ↓
- Fixed dialing on/off ^(*) ↓
- Barred dialing on/off ^(*) ↓
- Keypad lock
- Line lock ^(*) ↓

Facts & Tips

• Remember that ^(*) ↓ indicates that the option depends on your SIM card and therefore may not be available.

• Siemens asks that you remember that safety is your first responsibility, and that the more familiar you are with your phone, the more safely you can use it under various circumstances. Please set up your phone to your satisfaction when your focus on so doing will not distract you from other tasks.

Network services



First

Enter the Setup menu by pressing »MENU«
Select »Network services«

Call divert ^(*)

If you want to divert your incoming calls to another phone number, you have to:

- 1 Select one of the five call divert options.
- 2 Register your call divert.

Different options of call divert

All calls Divert all calls made to your phone.

If unanswered This is an umbrella function that covers the next three options at the same time; i.e. it diverts calls to your phone:

- if your line is busy
- if you do not reply
- if there is no contact to the network

If busy Divert your calls if your phone is busy.

If no reply Divert your calls if you do not reply.

If no contact Divert your calls if there is no contact to the network.

Status Check if your phone is diverted in any of the possible ways.

Cancel all Cancel all your call diverts.

Register your call divert

Having selected one of the five above call divert options, you must select »Register« to register it with the network operator. Your telephone will guide you through the following steps:

Teleservice type

Specify whether you want the call divert to apply to all services, speech, data or fax services.

Divert delay

(only if you have selected to divert »If no reply« or »If unanswered«). Specify the period of time that should elapse before the call is diverted. You can choose »Default delay« or select a period from 5 to 30 seconds.

Number


Enter the phone number you want to divert to or select a number in your phone book using ▼. ^(*) On some networks you can press ▲, and your calls will be diverted to your voice mail (see p. 48).

Deactivation/activation ^(*)

On some networks you have the possibility of activating and deactivating your call divert. This means that when you have registered a call divert, you can select to deactivate it, and then at a later moment activate it again. Your telephone will then remember your last registration and you will not have to select divert delay and phone number again.

You access the activating/deactivating option by selecting the call divert you want to activate/deactivate and then select »Deactivate« or »Activate«.

Facts & Tips

- If you have chosen to have all calls diverted, the call divert indicator  will be shown in the display.
- Your selection of a specific kind of call divert allows you not only to register it. At this level, you also have the possibility of deactivating/activating the call divert, seeing the status for this specific kind of call divert by selecting »Status« and cancelling this specific kind of call divert by selecting »Cancel«.
- If you try to deactivate/activate a call divert and your network does not allow this option, your display will tell you that the service is not available. In that case you must cancel a call diversion by selecting »Cancel«. Next time you want your incoming calls diverted, select »Register«.

Network services



First

Enter the Setup menu by pressing »MENU«
Select »Network services«

Call barring ^(*)

You can set up call barring for different types of outgoing and incoming calls to restrict the use of your phone. To make use of this service you need to get a specific password from your network operator, and then:

- 1 Select one of the call barring options below.
- 2 Activate your call barring.

Different options for call barring

Outgoing calls gives you three new options:

- **All calls:** Bar all outgoing calls
- **International:** Bar all outgoing international calls
- **Roaming calls:** Bar outgoing calls when you are connected to a foreign network (this still leaves you the possibility of making calls to your home country).

Incoming calls gives you two new options:

- **All calls:** Bar all incoming calls.
- **Roaming calls:** Bar incoming calls when you are connected to a foreign network.

Status Check if your phone is barred in any of the above mentioned ways.

Deactivate Cancel all your call barings.

Activate your call barring

Once you have selected the kind of call barring you want, activate it by pressing »OK«. Specify whether you want the call barring to apply to all services, or to the speech, data or fax services. You will then be asked to enter the 4-digit password provided by your network operator.

Call waiting ^(*)

Activate »Call waiting« if you want to be notified by a special ringing tone in case somebody is calling you while you are already having a conversation. You then have the option of answering or rejecting the new call.

Call back ^(*)

Some networks offer the possibility of automatically establishing a connection to a busy subscriber when the number is no longer engaged. The phone will inform you that the subscriber is busy and ask you whether you want to call back.

Select »Status« to see how many phone numbers are still waiting to be called back.

Select »Cancel« if you want to cancel the remaining phone numbers to be called back.

Calling name presentation (CNAP) ^(*)

Some networks offer the possibility of showing the name of your caller even though his number is not stored in your phone book.

To find out whether this service is available or not, select the option »CNAP« and then »Status«.

Call deflection ^(*)

On some networks you can subscribe to this feature which lets you forward an incoming call to another phone number. Press *4, followed by the other phone number to have an incoming call forwarded to the number entered instead of answering the call.

To find out whether this service is activated or not, select the option »Call deflection« and then »Status«.

Closed user group ^(*)

This is a network feature by which the use of your telephone is restricted to certain phone numbers within a group defined by the network operator and the owner of the SIM card.

Facts & Tips

- Do not confuse call barring with the barred number phone book (p. 22). The barred number phone book only relates to the barring of specific numbers entered by you.
- Please note that during roaming, your phone can get in contact only with co-operating networks (except for emergency calls).
- Your selection of a specific kind of call barring allows you not only to activate it. At this level, you can also see the status of the kind of call barring chosen by selecting »Status«, or cancel the chosen kind of call barring by selecting »Cancel«.
- You may be a member of different closed user groups. Each group has its own ID number. The network defines which group is your default user group. You have the option of calling outside the group – although perhaps at a higher charge.

Network selection



First

Enter the Setup menu by pressing »MENU«
Select »Network selection«

Selection mode ^(*)

Phoning outside your home area may require the use of a different network. You may select the network manually or let your telephone do it automatically. Entering »Selection mode« gives you these options:

Automatic Let your phone find an available network automatically. Your phone will always try to reach your home network first, then alternatively find another available network. You may have the possibility of establishing a preferred list (see below), indicating the order of preference in which your phone should select a network.

Manual Your phone will always start searching for the network with which it was in contact when it was last switched off. If the phone cannot locate this network, it may present some alternative networks in the display, and you may then select one manually.

Set preferred list

Some carriers permit you to enter a list of networks in your own order of preference and store them on your SIM card.

To do this, select the empty location where you want to store the new network. Pressing »EDIT« will open a list of networks. Find the network you wish to store in your preferred list, and press »SELECT«.

Country selection

If you choose automatic network selection, you can restrict your phone to connecting only to networks selected from the »Use country list«. In »View list« you can select which countries you want to allow. You can delete countries from the list by pressing »EDIT«, followed by »DELETE«.

Network types

Select whether your phone should start searching for a GSM 900, GSM 1800 or GSM 1900 network. If you select all 3 network types the telephone will automatically start searching for the network that offers the best connection.

Facts & Tips

- If you want to add a network that is not shown on the list of networks, select »Specify« and enter the country code and network number of the network.
- The country list can contain 15 different countries. The country of your home network will always be the first one on the list and cannot be deleted.
- Select »Unlimited« in the country list and you will be able to connect to all available networks.
- If you travel mainly in the US and Canada and seldom go to Europe you can reduce the network connecting time by manually selecting only »GSM 1900« under Network types.

Tones setup



First

Enter the Setup menu by pressing »MENU«
Select »Tones setup«

The Tones menu offers you different options in relation to the following tones:

Ringing tone

Message tone

Broadcast tone

Volume Select whether you want the volume to be high, medium, low or off. The ringing tone can also be set to »Escalating«.

Pattern You can select between 42 different tone patterns and melodies composed by yourself.

Composer

You can compose up to 20 melodies to be used as additional ringing tones.

View melodies To edit or delete an existing melody, select the melody, press »OPTION« and select whether you want to edit or delete it. It's also possible to edit only the title of the melody.

Create melody The notes are inserted via the keypad. Press ✱ to see which note is located on which key. The keys below have special functions:

- 8 Plays back the melody
- 9 Changes the note/rest length (1/16, 1/8, 1/4, 1/2)
- 0 Deletes a note or a rest
- ♯ Inserts a rest

The cursor is moved by means of the arrow keys. A new note is

inserted to the right of the cursor and is marked in black. After 1/2 a second the cursor moves to the right of the inserted note. As long as the note is active (black) it can be edited.

Display indications:

The top bar indicates the position of the cursor relative to the total length of the composition.



The number of the currently active note.



Note length (1/16)
Note (C)
Sharp (♯)
Octave (6)

Note and rest lengths are shown by symbols of different lengths, 1/16 being the shortest and 1/2 being the longest.

The black line indicates an octave.

Special side key functions:

Short press up:
Moves the note up one semitone
Long press up:
Moves the note up one octave
Short press down:
Moves the note down one semitone
Long press down:
Moves the note down one octave

When you insert a note or a rest, the length will always be 1/16. Press the relevant key again, and the length will be changed into 1/8; press it twice, and it will be changed into 1/4 etc.

You cannot overwrite an inserted note or rest. You have to delete the old one before you can insert a new.

When you have completed your composition, you can press »OPTION« and:

- **Save:** Give your melody a name and press »SAVE«. If you do not want to give the melody a name of your own choice, it will be stored under the name »My melody 1«. If you press »EXIT« after completing your composition, you will be asked whether you want to leave the composer without saving your new/edited melody
Press »NO« to return to the composer editor where you can make further corrections, if required.
Press »YES« to leave the composer without saving anything.

- **Clear all:** Select this option if you regret your composition and want to start composing your melody from scratch again. In this way you will not have to delete the inserted notes/rests individually.

Facts & Tips

- *The standard ringing tones entered by the manufacturer cannot be edited or deleted.*
- *Remember that for entries stored in your address book you can assign a specific ringing tone to the group enabling you to hear from which group the call comes.*
- *The maximum length of a melody is 250 notes and/or rests. The digit at the bottom of the display tells you how many you have left.*

Tones setup



First

Enter the Setup menu by pressing »MENU«
Select »Tones setup«

Create melody (Continued)

- **Play back speed:** Choose between 5 different standard play back speeds. The speed selected here will be the one which is used if you press »8« when composing or editing a melody.

- **Tones sound:** Select whether you want to hear the tones or not when composing your melody. Even if you have switched the tones sound off, you will still be able to listen to your composition by pressing 8 (Play back).

Delete

This submenu is available only if you have composed one or more melodies or downloaded ringing tones from the enclosed CD-ROM.

Key tone

Select whether you want a tone to be heard when you press a key. You can select between 7 different tones, DTMF and off.

Silent mode

Choose whether you want the selected tones to be on or off.

Trembler

Select whether you want the built-in trembler to be active at incoming calls, messages, or events.

Factory settings

Ringing tone

- volume: Medium
- pattern, line 1: Standard 2
- pattern, line 2: British 1

Message tone

- volume: Medium
- pattern: Simple 1

Broadcast tone

- volume: Medium
- pattern: Discreet

Key tone: Off

Trembler

- Line 1: On
- Line 2: On
- Messages: Off
- Broadcasts: Off
- Events: On

Facts & Tips

- *If you are interrupted while composing your melody, e.g. by an incoming call, your composition will be stored under the name »Backup«.*
- *Remember that you can disable all selected tones by pressing »MENU« and then * . Just press these keys again in the same order to revert to your original settings.*
- *Press »MENU« and then rapidly * twice, and all tones will be off for 15 minutes. Press »MENU« and then * in a trice and all tones will be off for 30 minutes etc. In this way you can disable all tones for a period of up to 10 hours. The display will inform you of the duration remaining. All selected tones are automatically enabled again when the chosen period ends.*
- *Returning to the factory settings will not affect the ringing tone assigned to a group in your address book.*

Phone setup



First

Enter the Setup menu by pressing »MENU«
Select »Phone setup«

Language ⁽⁶⁻⁹⁾ ↓

Select »Language« to change the menu language of your phone.

IrDA

Under »IrDA Nickname« you can enter an ID name by which you want other IrDA devices to identify your mobile phone.

By selecting »Printer« and then »Setup« you get the option to define the protocol language of the printer you want to use.

If you select »Test page«, a standard test page will automatically be sent to the printer.

Backlight

To save your battery and thus increase both conversation and standby times you can choose to have the backlight permanently switched off.

Handsfree (Car kit & headset)

This option is effective only if your phone is connected to a handsfree device. See specific user guides for further information.

Greeting ⁽⁶⁻⁹⁾ ↓

Make a welcome greeting on your phone according to your own wishes. Press »EDIT« and delete the old greeting by holding down »CLEAR«. Enter the new greeting via the keypad, and confirm by pressing »OK«. (This function may not be available on all networks).

Signal diode

The LED on the top of the phone provides information about the following:

- **Green flash**
In contact with a network
- **Fast green flash**
Incoming call
- **Very fast green flashes**
New information, e.g. a missed call or a new message.
- **Red flash**
No contact with a network
- **Fast red flash**
Low battery

Select individually whether you want these indicators to be active or not.

Graphics

This submenu allows you to choose between different symbols for the battery and the signal strength indicators.

This is also where you adjust the contrast of the display.

Owner ID

You can store an owner ID in your phone to be shown when you switch on the phone. Select »Define« to enter the necessary information, which corresponds to an address book entry. You can also select an entry from your address book or one of your phone books to be stored as your owner ID.

Select »Show at power up« to activate/deactivate the function. When the function is activated press »OWNER« during the power up phase to see the contents of your owner ID.

You can change an existing Owner ID by selecting »Edit«.

The contents of the Owner ID can be sent as a business card via IrDA (see p. 39).

Facts & Tips

• *If, by mistake, you select a language which you do not understand, you can always return to the original SIM card language by pressing the following keys: * # 0000 # , in standby mode.*

• *When you change the menu language of your phone, it is advisable to change the keypad language accordingly.*

• *The owner ID is stored in the internal memory of the phone and will thus not be shown in the display if you use your SIM card in another phone.*

Call setup



First

Enter the Setup menu by pressing »MENU«
Select »Call setup«

Outgoing call ID ⁽⁶⁹⁾

Select »Outgoing call ID« to choose whether or not the persons you call should be able to see your phone number.

Speed dial

Activate »Speed dial« to make it possible to call numbers in your address or phone books from the standby display by briefly holding down only one key.

Select »Define« and specify which phone number you want to assign to the keys 1 to 9.


If you should later want to change something in the sequence of the allocated speed dial numbers, press »SELECT« and then select »Modify«.


If you want to remove the phone

number from the allocated speed dial key, select »Remove«.


Caller access

This feature allows you to limit the number of callers from which you will accept calls. You can select whether you want to receive calls from »All callers«, from a »Single caller« or from a »Group of callers«. You will then be asked to define the entries from which you will accept calls. Having selected »Single caller« or »Group of callers« you will be asked to define the entries or groups from which you will accept calls.

As long as the caller access feature is activated, you will see this symbol  in the display.

If you receive a call from a number from which you don't allow calls, the call will automatically be rejected. You will be informed about the rejected call by the  symbol in the display

Facts & Tips

- *Deactivating »Speed dial« enables you to enter letters, symbols and digits in the standby display and thus enter a USSD message containing both letters and digits.*
- ⁽⁶⁹⁾ *USSD (Unstructured Supplementary Service Data) is a feature completely defined by your network which allows direct communication between you and your network. An example of using USSD could be if entering a certain code of digits and/or letters terminated by # tells your network to send you a list of charges.*
- *If Caller access is activated you can deactivate it by pressing »MENU« and . Press the two keys again in the same order to reactivate the feature.*

Auto redial

If you have activated Auto redial and the phone number you are calling is busy or your call is not answered, the phone makes up to 10 automatic redial attempts.

A special redialing success tone is heard when the attempt is successful. To cancel the auto redial attempts, just press the left-hand function key.

This feature can help you use your phone more safely while driving. Please utilize it for that purpose, as well as for your convenience.

Any key answer

You can answer an incoming call by pressing any key you like, except the left-hand function key and the arrow key, by selecting »Any key answer on«.

Time and charge ⁽⁶⁹⁾

The time and charge menu offers you the possibility of checking the duration and cost of your calls. However, the call charge feature may not be supported by all network operators.

Status Here you can see the duration and cost of your latest incoming and outgoing call, your total incoming and total outgoing calls and a total of all calls. You can also see the remaining credit, if any, (only if you have prepaid your call charge). To reset your timers, just press »RESET«.

Display Select whether or not the call timer should be shown in the display during a conversation.

Setup Enter the unit price for your calls (check with your network operator) and enter the currency of your call charge. It is also possible to enter a maximum call charge

limit; no more phone calls can be made when this maximum has been reached.

Facts & Tips

- *Do not confuse Auto redial with the call back function described on p. 55. In the Call back function, the network automatically connects you to the busy subscriber when he is no longer engaged.*
- *Resetting of timers and setup of call charge may require you to enter your PIN2 code.*

Call setup



First

Enter the Setup menu by pressing »MENU«
Select »Call setup«

Call types (fax/data)

This menu is relevant only if you are using your phone for fax and data communications!

The settings on this menu should be changed only in connection with fax and data transmissions, if necessary. Fax and data transmissions can be made via IrDA or by means of a separate data cable (optional).

At www.siemens.com/s40 you will find a modem setup programme enabling you to change the receiving data transfer speed into high speed (HSCSD).

Line selection ⁽⁶⁻⁹⁾

Some network operators offer Alternate Line Service. This allows you to use two separate speech lines and phone numbers on the same telephone. If you have two separate lines, you can switch between these by entering this submenu

Facts & Tips

- Fax transmission supported is Fax Class 1.
- When your phone is connected to a data cable it is not possible to send and receive via IrDA.
- In the standby display a small number on the left or right-hand side of the signal strength indicator informs you whether you are on line one or line two (only if you have Alternate Line Service).

Message setup



First

Enter the Setup menu by pressing »MENU«
Select »Message setup«

Send SMS setup

To be able to send and receive SMS messages you must store the name and number of the service centre of your network operator. However, many network operators will already have stored this information and some other necessary parameters for you on your SIM card.

Service centre The service centre is where your SMS messages are forwarded to the recipient. Selecting this submenu gives you the following options:

View centres: A list of already defined service centres will be presented to you. Press »OPTION« if you want to edit or delete one of the service centres.

Under the edit option you can change the name and number of the service centre, enter a destination number to which you want your messages to be sent, change the validity time and teleservice type.

Add new centre: Contact your network operator to get the service centre number if it is not stored on your SIM card, and then proceed as follows:

- 1 Select »Add new centre« and press »OK«.
- 2 Press »EDIT«.
- 3 Enter the service centre name and press »OK«.
- 4 Enter the service centre number, destination number, and select the validity time and teleservice type in the same way.
- 5 Press »SAVE«.

Default centre: Select the service centre through which you want your messages to be sent. If you select »No default«, you will be asked to enter the service centre number, validity time and teleservice type each time you send a message.

Facts & Tips

- Remember to add "+" and the national code before the number of your service centre so you can also send SMS messages from abroad.
- If you often send messages to the same number it is an advantage to store this as your »Destination number«. You will thus only have to confirm and not reenter the number each time you want to send a message.
- The validity time is the period of time that an SMS message will remain with your service centre if for some reason it cannot be delivered right away.

Message setup



First

Enter the Setup menu by pressing »MENU«
Select »Message setup«

The period during which you can receive this kind of confirmation corresponds to the validity time selected by you in the Message setup menu.

Signature You can add a signature to be sent automatically at the end of your SMS messages.

Broadcast setup


To be able to receive broadcasts you must enter Broadcast setup which gives you the following options:

Activation Select whether you want the broadcast function to be activated.


Channels Set up a list covering the kind of information you wish to receive. The phone will show you various options for storing the individual channels.

Pressing »EDIT« will give you a range categories from which you can select the one(s) you want to receive.


Send SMS setup *(Continued)*

Reply path  For messages that have to be sent to the recipient via several service centres, some networks offer the feature of forwarding a reply, if any, back to you through the same chain of service centres. This is called a reply path, and activating it may speed up the delivery time for a reply.

Contact your network operator for further information.

Confirmation  Select »Confirmation on« if you want a confirmation from the network operator when your message has been sent to the recipient.

If the message has not been sent you will get the information that it is either queued or not delivered.

Language  Some network operators offer broadcast messages in different languages. Select between different languages or simply select all languages.

Sorting
Specify whether your messages in your inbox, outbox or sent items should be sorted by date and time, by subject or by sender.

Facts & Tips

- For more information on broadcasts, see p. 48.

Browser Menu

The connection to the WAP gateway is established as a data call via an access point. You must enter the dial number of this access point in the »Profile setup« below.

Communication between the access point and the gateway takes place automatically when you have entered the IP address of the gateway as mentioned below.


It is likely that your network operator has already stored this information in your phone. If not, you must select the "Profile setup" menu and enter the data yourself.

Display setup Select whether you want the title of the displayed card to be shown in the first line of the display or not.

Profile setup This is where you set up your WAP connection. You can store up to 8 different profiles, each with an individual setup.

• **Add profile:** Select this submenu to add a new profile. Enter any of the following parameters:

Note: The minimum number of parameters required are dial-up number and IP address.

- The name of the profile
- The supplied dial-up number
- The connection type (analog or ISDN)
- The data speed (9600 or 14440)
- The supplied user name
- The supplied password
- The IP address (use the  - key for decimal commas)
- The port number
- The name of your Homepage for this profile. (Like the start page on your PC).
- The idle time. Set the period (in seconds) after which you will be disconnected after your last key-stroke.

• **View profiles:** Select this submenu to view any stored profiles.

Press »SELECT« to view the contents of a specific profile.

By pressing »OPTION« you can choose to edit or delete the selected profile.

Facts & Tips

- Contact your network operator or special WAP gateway provider for further information on how to set up the WAP browser.
- Permission to view, add or change the WAP profiles might be restricted by your network operator.

Message setup



First

Enter the Setup menu by pressing »MENU«
Select »Message setup«

Text input setup

In this submenu you have various options related to the different text editors and to the keypad.

T9 editor Select whether you want the T9 text input feature to be activated or deactivated.

T9 language Here you can change the language of the T9 text input. The default language is English.

Startup mode Select the text editor mode which you want to be the default for entering information in your address and phone books or writing messages. If you have deactivated the T9 text input feature it will not be an option here.

Keypad alphabet Set the keypad to a language corresponding to the alphabet of your local language or another language of your own choice.

Facts & Tips

- *To benefit the most from the T9 text input you should choose the same language for T9 and for the keypad. Otherwise T9 will not be able to store new words in the linguistic database.*
- *When you change the menu language of your phone, it is advisable to change the keypad language accordingly.*

Calendar setup



First

Enter the Setup menu by pressing »MENU«
Select »Calendar setup«

Calendar

You can select to have the time and date shown in the standby display by entering this menu. You have the following options:

Time Select »Set time« to set and/or edit the current time. Enter the current hour or use the arrow keys to edit the displayed hour. Press »NEXT« and enter the minutes or use the arrow keys to edit them. Select »Set time format« to specify whether you want a 12- or 24-hour display. If you have selected a 12-hour display, you can switch between am and pm with the arrow keys.

Date Select »Set date« to set and/or edit the current date. Enter the current date or use the arrow keys to edit the displayed date. Press »NEXT« and enter the month or use the arrow keys to change it. Press »NEXT« to jump to the year and enter/edit it. Select »Set date format« to specify the sequence in which you want the date to be shown, e.g. date, month and year.

Display Select whether you want the time and/or the date to be shown in the display.

Start of day If the start and end times of the day in your calendar do not fit with your actual working day, you can change them according to your wishes by selecting »Start of day« and then »End of day«. The times selected will be used in the »Show week« option in the List menu (p. 37).

Remove events You can choose that all events should be removed automatically from your calendar after a certain period specified by you.

Facts & Tips

- *As long as the time/date function is active, all outgoing, incoming and missed calls as well as messages, voice memos and events will be time/date stamped.*
- *The time/date indication in the display will disappear if the battery runs completely out of power. You must then set time and date again.*
- *A recurring event cannot be removed automatically.*
- *You will not be notified when an event is removed automatically.*
- *Please use extreme caution in utilizing this feature when driving or performing other tasks where your divided attention could cause a hazard to yourself or others.*

Security



First

Enter the Setup menu by pressing »MENU« Select »Security«

Entering the Security menu gives you different possibilities of preventing misuse of your SIM card and your telephone, e.g. if your phone is lost or stolen.

PIN code ^(*)

Activate PIN Select whether your PIN code should be on or off. The PIN code is a 4 to 8 digit code which must be entered each time you switch on your phone.

Change PIN Change your PIN code.

Change PIN2 ^(*)

Change your PIN2 code (used on some SIM cards to access special functions).

SIM lock

Link your telephone and your SIM card together by activating the SIM lock. You will be asked to enter a 6 to 16 digit code of your own choice.

This means that if for instance your phone is stolen, it cannot be used together with another SIM card.

Network password ^(*)

Change your network password (used if you subscribe to a call barring service).

Facts & Tips

- *If you enter an invalid PIN code three times, your SIM card will be blocked, and to unblock it you have to enter the PUK code supplied by your network operator. This procedure prevents unauthorised persons from working out your PIN code by repeatedly entering different combinations of numbers.*
- *For your own sake, remember to write down your SIM lock code to be able to deactivate the lock at a later time. ^(*) You have 10 attempts before the phone is blocked.*
- *The phone will inform you how many tries you have left before the SIM card is blocked. If you enter an invalid PUK code 10 times, your SIM card will be permanently blocked and you have to contact your network operator.*

Encryption indication ^(*)

Get a warning in the display and a sound alarm, if you connect to a network which does not support encryption.

Fixed dialling ^(*)

Select whether you want the fixed dialling function to be on or off (only available if you have defined and stored numbers in the fixed dialling phone book (p. 21).

If you have selected »Fixed dialling on«, you will have access only to the numbers stored in the fixed dialling phone book when you press ▼ .

Your plain numbers phone book will not be visible in the List menu and can thus not be accessed. Of course, it remains on the SIM card and can be accessed again by selecting »Fixed dialling off«.

Your address book will be visible in the List menu, but if you wish to call a number from the address

book which is not stored in the fixed dialling phone book you will be informed that it is not possible to make the call

Barred dialling ^(*)

Select whether you want the barred dialling function to be on or off (only available if you have defined and stored numbers in the barred dialling phone book (p. 22).

Facts & Tips

- *Encryption means that the network encrypts conversations to make it difficult for unauthorised persons to listen in on them.*
- *Contact your network operator for further information on PUK2 and PIN2 codes.*

Security



First

Enter the Setup menu by pressing »MENU«
Select »Security«

Keypad lock

To avoid making calls accidentally, you can lock the keypad. In this submenu you have the following options:

Activate Activates the keypad lock.

Auto lock You can set your keypad to lock automatically when you are not using the phone. You will be able to select a delay for the auto lock function.

Lock code You can add a lock code to the keypad lock function so that only you can unlock the keypad by entering a 4 to 16 digit code. When the keypad is locked, you will be asked to enter the keypad lock code before you can use the keypad.

Line lock ⁽⁶⁹⁾

If you have Alternate Line Service on your SIM card, you can restrict outgoing calls to use only one of these lines.

Activate the line lock in this sub menu and enter a 4 to 16 digit lock code of your own choice. To shift back to the other line you have to re-enter this code.

Facts & Tips

- *It is possible to make emergency calls even though the keypad lock is activated.*
- *For your own sake, remember to write down your keypad lock code. You have 10 tries to enter the correct keypad lock code. The phone will inform you how many tries you have left before the keypad lock is blocked. If you reach this maximum, remove and reinsert the battery, and you have another 10 tries.*
- *Remember that you can also activate the keypad lock by pressing »MENU« and then **#**. Press »UNLOCK« and **#** to disable the keypad lock.*
- *The keypad lock is disabled automatically during an incoming call or if the phone is placed in a handsfree car kit.*
- *Emergency calls cannot be made if the keypad lock is activated.*

Conversation menu

See everything about the possibilities that you have during a conversation.

Conversation menu



First

This menu is available only when you are actually talking on the phone.

Enter the Conversation menu: Press »MENU«

Scroll through the options: ▼ and ▲

Select an option: Press »OK«

This menu offers you different kinds of options for use during a conversation:

Microphone on/off

Select »Microphone off« to turn off the microphone during a conversation. You can still hear everything your caller says, but the caller will be unable to hear you.

Select »Microphone on« to activate the microphone again.

Hold a call

You can make a second call without having to end a call that is currently active. Enter the second phone number and press »CALL«.

If you have activated call waiting (see p. 54), you can also answer a new incoming call without having to end the currently active call.

When you hear the special ringing tone in your loudspeaker, just press »ANSWER«. In both cases, the first call will automatically be put on hold. You can also put calls on hold manually by selecting »Hold call«.

Continue a call ^(*)

When you want to retrieve a call which has been put on hold, just select »Continue call«.

Switch between calls ^(*)

If you have a call on hold and an active call, you can switch between these two by selecting »Switch calls«.

Drop active call ^(*)

You can end an active call by selecting »Drop active«. If you also have a call put on hold, this call will remain on hold until you retrieve it to continue conversation.

Drop held call ^(*)

You can end a call which has been put on hold by selecting »Drop held«.

Conference call ^(*)

If you have an active call and a call on hold at the same time, you can select »Join calls« to enable all of you to make a conference call.

Private call ^(*)

If you have joined all calls and want to have a private conversation with one of the callers, select »Private«. The other calls will be put on hold.

Transfer call ^(*)

If you have an active call and a call on hold, you can connect the two by selecting »Transfer« call. In that way, the two parties can talk together while you withdraw from the conversation.

Record conversation ^(*)

You can record an ongoing conversation by selecting »Record call«.

The name (if the entry is stored in your address or one of your phone books) or the phone number of the other party will be displayed.

Facts & Tips

- *The status of the call determines which menu items are visible and available for you to select.*
- *You also have the option of calling a number in your address or phone book during conversation by pressing ▼ and select the entry you want to call.*
- *You also have the option of sending an SMS message during a conversation by pressing ▲ to enter the List menu.*
- *Please be aware that you can only have one call on hold at a time.*
- *A conference call can be made between 6 different callers including yourself.*
- *Remember that juggling multiple calls requires even more of your attention than a simpler call. Be careful about so doing while driving or performing other tasks where your divided attention could cause a hazard to yourself or others.*

Further information

Get an overview of the keypad functions and the display symbols on your phone.

Keypad functions

Function keys with text line in display

The left-hand function key turns your phone on and off. When the phone is on, the function of these keys varies, depending on whether you are in standby or menu mode. The text line at the bottom of the display will inform you of the current function of each key at any time.

Arrow key up/down

Used to scroll through menus, address and phone books, lists, messages, events, etc.

Voice mail key ^(*)

Press for one second to get quick access to your voice mail (only if the number is stored by you or your network operator).

International numbers

Press for one second to insert a "+" before international phone numbers.

The key is also used to shift between lower and upper case during text entry.



Side key

Has the same functions as the arrow keys. In addition, the side key is used for controlling the volume level during conversation, shifting between different editor modes, accessing the WAP browser menu, moving frequencies and octaves in the Composer, and quick scrolling through address and phone book entries.

Extension numbers and prefix numbers

Press for one second to insert a pause "P" between the main number and the extension number.

Press for two seconds to insert a "?" for each varying digit in a prefix phone number (for storing in your phone book).

Latest outgoing call

Press for one second and the call is made automatically (only if you have activated speed dial).

Display symbols

Battery level

The more bars displayed, the better the battery capacity. See page 13 for more information.

Battery low

Your battery needs recharging. The percentage tells you how much capacity you have left.

Signal strength

The more signal bars displayed, the better the radio connection.

List menu

Address and phone book entries

The individual entries have different identification symbols.

Address book entry

Phone book entry

Group folder for address book entries

Scrolling

Arrows mean that there are more functions which you can access by scrolling up or down.

Calling indicators

Incoming call

Incoming fax

Incoming data call

Missed calls

The digit indicates how many calls you have missed.

Caller access

The Caller access feature is activated.

Message indicators

New SMS message

New voice mail ^(vo)

Unread message

On: There are still unread messages.
Flashing: The memory is full.

SMS message in inbox

Call diversion

On: All calls to your mobile phone are diverted to another telephone number.

Flashing: The status of your call diverts is unknown.

Event indicators

Occurring/Missed event

The digit indicates how many events you have missed.

Recurring event

Event occurs today

WAP connection indicators

Ongoing data call

Network available

Network not available

Microphone off

Volume level

Indicates volume level when adjusting.

Ringing tone off

All tones off

Indicates that all tones have been disabled.

Calculator

List of arithmetic operators in the calculator menu.

Text input symbols

Alphanumeric grid mode

Alphanumeric wheel mode

T9 text input mode

Numeric mode

Caps lock indicator

Upper case indicator

Display and keypad backlight

The backlight switches on automatically when you press a key. In standby mode, the light will automatically switch off if no key is pressed for 10 seconds or more.

Technical specifications

This product uses frequency bands whose use is harmonized within the European Community area. This product is intended to be connected to the GSM public telecommunications network.

- GSM900 Class 4 (2 Watts)
Frequency range
880-960 MHz
- GSM1800 Class 1 (1 Watt)
Frequency range
1710-1880 Mhz
- GSM1900 Class 1 (1 Watt)
Frequency range
1850-1990 Mhz

Weight:

97 g

Size:

112 x 44 x 22 mm

Operating voltage:

3.7 V

Power consumption:

Max. 650 mA/h

Operating temperature:

-10° – +55° celcius

Standby time:

Up to 260 hours

Talk time:

Up to 360 minutes

Battery warnings:

- Never charge your battery when the ambient temperature is greater than 104 degrees fahrenheit (40 degrees Celsius).
- To prevent injury or burns, NEVER allow metal objects to contact or short circuit the battery terminals.
- Never dispose of your battery where it will be exposed to fire.
- Always dispose of your battery in accordance with local laws and regulations.
- Temperature extremes will affect the charging characteristics of your battery. Allow it to cool or warm to a reasonable temperature before charging.

Further information

- The capacity and lifetime of your battery will be reduced by leaving it in hot or cold places, such as in a closed car in summer or winter conditions.

Licenses:

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Your WAP browser is licensed from:



Any attempt to modify, translate, reverse-engineer, de-compile or disassemble any part of the Phone.Com Software is prohibited.

Further information

Declaration of Conformity

We,

Siemens Mobile Phones A/S

Industrivej 30
DK-9490 Pandrup
Denmark

declare under sole responsibility that the product:

Siemens S40

manufactured by
Flextronics International Danmark A/S
Industrivej 30
DK-9490 Pandrup
Denmark

to which this declaration relates, is in conformity with the following standards and/or other normative documents:

- EN 301 419-1
- EN 301 419-2
- Draft EN 301 511
- EN 60 950
- ETS 300 342-1
- ES 59 005 (following the provisions of EC Council Recommendation 1999/519/EEC)

We hereby declare that tests have been conducted, test results evaluated and that the above named product is in conformity with the essential requirements of Directive 1999/5/EEC.

The conformity assessment procedure referred to in Article 10(5) and detailed in Annex V of Directive 1999/5/EEC has been followed with the involvement of the Notified Body:

BABT
Claremont House
34 Molesey Road
Walton-on-Thames
KT 12 4RQ
United Kingdom

Identification mark: 0168

The technical documentation relevant to the above equipment will be held at

Siemens Mobile Phones A/S
Industrivej 30
DK-9490 Pandrup
Denmark

Pandrup, October 16, 2000

Oluf Kristensen
Regulatory Affairs

Manfred Heier
Managing Director

FDA Update on mobile phone safety

The U.S. Food and Drug Administration's Center for Devices and Radiological Health Consumer Update on Mobile Phones

FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known – and what remains unknown – about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radiofrequency energy (i.e., radiofrequency radiation) in the microwave range while being used. They also emit very low levels of radiofrequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce

biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well.

Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe.

However, the available scientific evidence does not demonstrate adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head

during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna – the primary source of the RF – and the person's head.

The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source.

The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are ongoing. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods.

Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals.

In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal stud-

ies apply to the use of mobile phones.

First, it is uncertain how to apply the results obtained in rats and mice to humans.

Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously – up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

- In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve

sheath). No statistically significant association was found between mobile phone use and acoustic neuroma.

There was also no association between mobile phone use and gliomas when all types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepitheliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance.

Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use.

FDA Update on mobile phone safety

Most cancer causing agents *increase* risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results. 1)

- Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes.

None of the tests showed any effect of the RF except for the micronucleous assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that expos-

ing the test cells to radiation for this long resulted in heating.

Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus follow-up research is necessary. 2)

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings.

Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

- Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared. 3)

- In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant. 4)

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones.

FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones.

In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people

each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones.

Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population.

One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study.

The current case-control study of brain cancers by the National Cancer Institute, as well as the fol-

low-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices.

However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone industry to take a number of steps to assure public

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safety. The agency has recommended that the industry:

- Support needed research into possible biological effects of RF of the type emitted by mobile phones;
- Design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency

- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so.

For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the expo-

sure level drops off dramatically with distance. For example, they could switch to

- A mobile phone in which the antenna is located outside the vehicle,
- A hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package, or
- A headset with a remote antenna to a mobile phone carried at the waist.

Where can I find additional information?

For additional information, see the following websites:

Federal Communications Commission (FCC) RF Safety Program (select “Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters”):
<http://www.fcc.gov/oet/rfsafety>.

World Health Organization (WHO) International Commission on Non-ionizing Radiation Protection (select Qs & As): <http://www.who.int/emf>

United Kingdom, National Radiological Protection Board:
<http://www.nrpb.org.uk>

Cellular Telecommunications Industry Association (CTIA):
<http://www.wow-com.com>

U.S. Food and Drug Administration (FDA) Center for devices and Radiological Health:
<Http://www.fda.gov/cdhr/consumer/>

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