

Create

From **Messages** menu






1. Press **OK**(Select)
2. **Left Arrow** move to **MMS** or **SMS/EMS**
3. Press **OK**(Select)
4. Enter message (see "Text Entry" on page 26)
5. Press **Menu**

The following functions are available:

OK	When you are ready to send a message, select OK .
Add slide	Add new slide after the last slide. (MMS only)
Insert slide	Insert slide between slides. (MMS only)
Insert media	Insert media from My Pictures , My Animations or My Sounds .
Previous/Next slide	Move to the previous or next slide.
User msg.	Select pre-defined sentences and insert in the message.
Add signature	Add signature to the message.
View	View and confirm the message before sending. (MMS only)
Delete slide/ picture/animation/ sound	Delete the current displayed slide, picture, animation or sound.
Set timer	Set a time and delay for sending (maximum 60 seconds) the message. (MMS only)
Select	Select text to be copied or cut.
Copy	Selected text is copied into text memory.
Cut	Selected text is deleted and stored in text memory.
Paste	Insert the copied or cut text from the text memory.

When you are ready to send a message, you need to edit the following items:

To:	Enter receiver's phone number for SMS/EMS , phone number or email address for MMS .
Cc:	Send carbon copied message to other receivers.
Bcc:	Send carbon copied message to other receivers and hide that information.
Subj:	Enter a title for this message.

6. Press  (Menu)
7.  move to **Send** or **Save**
To send the message immediately, move to **Send** and press  (Select)
To save the message in Draft folder, move to **Save** and press  (Select)
8. Press  (OK)





Note: If a call comes in while you are creating an **MMS** message, the phone may abort the message without saving it.

Inbox and Outbox

You can store received messages in the **Inbox** and sent messages in the **Outbox**.

From **Messages** menu

1.  move to **Inbox** or **Outbox**
2. Press  (Select)

The following folders are available in **Outbox**:

Draft	Save messages which are not ready for sending or template messages.
Unsent	Messages which failed to send.
Sent	Successfully sent messages.

Chat SMS

The **Chat SMS** feature enables you to read sent and received messages on one screen while in the chat mode with another party.

From **Messages menu**

1. move to **Chat SMS**
2. Press (Select)
3. move to **Start chat**
To check the history, select **History** and press (Select).
To clear the history, select **Clear history** and press (Select).
4. Press (Select)
5. Enter your nickname (up to 10 characters)
6. Press (OK)
Then you can start chatting with the other party, providing he/she has the **Chat SMS** facility on his/her phone.
7. Enter your message
8. Press (OK)
9. move to **Phone number** or **Contacts**
10. Press (Select)
11. Enter or select a destination phone number
12. Press (OK)
Your phone sends the message.
When receiving a message from the other party in chat mode, the text will be displayed automatically above the last message.
13. Press (OK) to continue the chat



User messages

You can add your original text in **User messages**.

From **Messages menu**



1. move to **User messages**
2. Press (Select)
3. move to **[New user msg]**
4. Press (Select)
5. Enter text (see "Text Entry" on page 26)
6. Press (OK)



Cell Broadcast





You can receive your favourite information regularly from your service provider.

From **Messages** menu

1.  move to **Cell Broadcast**
2. Press  (Select)





Receiving Cell Broadcast messages

From **Cell Broadcast** menu

1.  move to **Receive**
2. Press  (Select)
3.  move to **On** or **Off**
4. Press  (Select)

Reading Cell Broadcast messages







From **Cell Broadcast** menu

1.  move to **Latest messages**
2. Press  (Select)
3.  move to the required message
4. Press  (Read)

Topic list

Managing a topic

From **Cell Broadcast** menu

1.  move to **Topic list**
2. Press  (Select)
3.  move to the required topic
4. Press  (Menu)
5.  move to the required function
6. Press  (Select)

The following **Predefined topics** are available:

- **Index**
- **Flashes**
- **Hospitals**
- **Doctors**
- **Pharmacy**
- **Road reports (Distance)**



- **Road reports (Local)**
- **Taxis**
- **Weather**
- **District**
- **Network information**
- **Operator services**
- **Directory enquiries (National)**
- **Directory enquiries (International)**
- **Customer care (National)**
- **Customer care (International)**

Adding a new topic

From **Cell Broadcast menu**

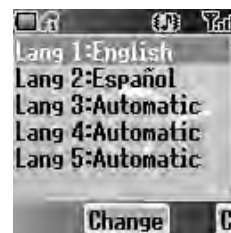
1. move to **Topic list**
2. Press (Select)
3. Press (Menu)
- OR
- move to **[New channel]** and press (Menu)
4. Press (Select) to **Insert**
5. move to **Predefined topics** or **Manual**
6. Press (Change)
7. To select from **Predefined topics**,
 move to the required topics
OR
To enter **Channel no:** manually,
Enter **Channel no:**
8. Press (Select)

Languages


You can select the language of the message you receive.

From **Cell Broadcast menu**

1. move to **Languages**
2. Press (Select)
3. move to the required language set
4. Press (Change)
5. move to the required language
6. Press (Select)






Calendar

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You can organise your calendar to remind you of a personal event, such as a holiday period or birthday. You need to set the clock, day and time before entering anything in the calendar.

Viewing the Calendar

In idle screen

1. Press  (Menu)
2.  move to **Calendar**
3. Press 




OR

In idle screen

Press  to display **Calendar**



Moving the cursor

When the **Calendar** is displayed, the cursor is on the current day. Press  to move the cursor to a different day. To display the next/previous month, place the cursor on the Month and press . To display the next/previous year, place the cursor on the Year and press .

Creating a reminder

On *Calendar*

1. move to the required date
2. Press (OK)
3. Set HOUR with -
- OR
 to set HOUR
4. move to MINUTE
5. Set MINUTE with -
- OR
 to set MINUTE
6. Press (OK)
7. Enter a title of the event



OR

On *Calendar*

1. Press (List)
2. move to **[New event]**
3. Press (Select)
Follow the step 1-7 above.

Reminder list

Viewing a reminder

On *Calendar*

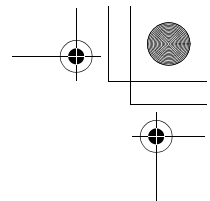
1. Press (List)
2. move to the required entry
3. Press (View)



Editing a reminder





On *Calendar*

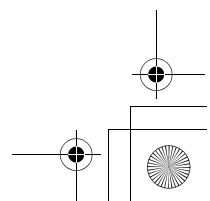
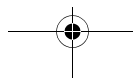
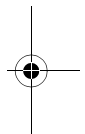
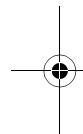
1. Press (List)
2. move to the required entry
3. Press (View)
4. Press (Edit)
See "Creating a reminder" above.






Deleting a reminder

On **Calendar**


1. Press  (List)
2. Press  (Del.)
3. Press  (Yes) to delete
OR
Press  (No) not to delete




My Media

-  **My Picture** page 85
-  **My Animations** page 86
-  **My Sounds** page 87




You can store your various multimedia files in different types of folders.

 **Note:** Changing SIM does not affect the contents of stored data.




My Pictures

You can store and manage the picture files. Picture files are displayed as thumbnails. Move the cursor with .

From **My Media** menu


1. Press  (Select)
2.  move to the required picture
3. Press  (View)

OR

- Press  (Menu)
4.  move to the required function
5. Press  (Select)


The following functions are available:

- **View**
- **Create MMS**
- **Set as wallpaper**
- **Set as caller ID**
- **Set as group icon**
- **Rename**
- **Delete**
- **Properties**





 **Note:** Group icon and Caller ID are available with JPG pictures only.



My Animations



You can store and manage the animation files. Animation files are displayed as thumbnails. Move the cursor with .

From **My Media** menu

1.  move to **My Animations**
2. Press  (Select)
3.  move to the required animation
4. Press  (View)

OR


press  (Menu)

5.  move to the required function
6. Press  (Select)

The following functions are available:

- **View**
- **Rename**
- **Delete**
- **Properties**



 **Note:** Only GIF format animations are available with your phone.

My Sounds

You can store sound files and manage them.

From **My Media** menu

1. move to **My Sounds**
2. Press (Select)
3. move to the required sound
Sound files are played automatically.
4. Press (Play) to play again

OR

Press (Menu)

5. move to the required function
6. Press (Select)
The following functions are available:
 - **Play**
 - **Create MMS**
 - **Rename**
 - **Delete**
 - **Properties**



Memory status

You can check the **Memory status** occupied by media files.

From **My Media** menu

1. move to **Memory status**
2. Press (Select)

Applications



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Your phone contains a number of preinstalled applications.

Games

See “Games” on page 56.

Alarms

You can set 3 sets of alarms to sound or vibrate when the set time is reached.



Note: If the phone is switched off at the alarm set time, the phone will switch on automatically and the alarm will sound (see “Aircraft” on page 2). The phone remains on after the alarm.

Setting the Alarms

From **Applications** menu

1. move to **Alarms**
2. Press (Select)
3. move to the required alarm set
4. Press (Select)
5. move to the required type of alarm
To cancel the alarm setting, select **Cancel**.
6. Press (Select)
7. - or move and set HOUR
8. move to the MINUTE
9. - or move and set MINUTE
10. Press (OK)

The following types of alarm frequency are available:

- **Time**
- **Once**
- **Daily**
- **Mon to Fri**
- **Mon to Sat**

You can select the alarm tone from **Melody**.



When an alarm sounds, the chosen melody will be heard and the display will flash with an alarm message. The alarm will sound for 55 seconds.

To end the alarm, press any key.

Sound recorder

You can record and make a sound file.

From **Applications** menu

1. move to **Sound recorder**
2. Press (Select) to start recording
3. Press () to stop recording

Clock

You can set the time and date, and select from various types of clock formats.

Time & date

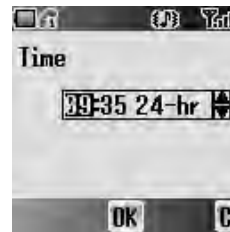
From **Applications** menu

1. move to **Clock**
2. Press (Select)
3. Press (Select) **Time & date**
4. The currently set time and date is displayed

Setting time

From **Time & date** menu

1. Press (Select)
2. - or to change HOUR setting
3. move to MINUTE
4. - or to change MINUTE setting
5. Press (OK)



Setting date





From **Time & date** menu

1. move to the current date
2. Press (Select)
Calendar is displayed
3. move to the current date
4. Press (OK)



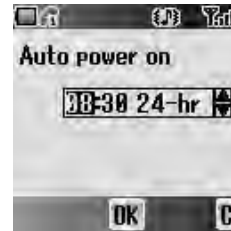
Format

From **Clock** menu

1.  move to **Format**
2. Press  (Select)
3.  move to the required format
4. Press  (Select)













Auto power on

You can set **Auto power on** and automatically switch on the phone at the set time.



Note: Even if the phone is switched off at the set **Auto power on** time, the phone will switch on automatically (see "Aircraft" on page 2).

From **Applications** menu

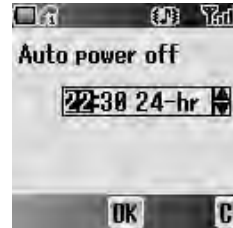
1.  move to **Auto power on**
2. Press  (Select)
3.  -  or  to change HOUR setting
4.  move to MINUTE
5.  -  or  to change MINUTE setting
6. Press  (OK)
7.  move to the required setting
8. Press  (Select)

Auto power off

You can set **Auto power off** and automatically switch off the phone at the set time.

From **Applications menu**

1. move to **Auto power off**
2. Press (Select)
3. - or to change HOUR setting
4. move to MINUTE
5. - or to change MINUTE setting
6. Press (OK)
7. move to the required setting
8. Press (Select)



Calculator

You can use the 4-function calculator (addition, subtraction, multiplication and division) for simple arithmetic operations.

From **Applications menu**

1. move to **Calculator**
2. Press (Select)
3. Enter a number with -
- (maximum 8 digits)
If a decimal point is required, press .
Press to add “-” if needed.
4. Press to select an arithmetic operation
5. Enter a number (maximum 8 digits)
6. Press (=)



Conversion

You can convert from/to a home currency using a currency rate.

On Calculator

1. Enter a number with - (maximum 8 digits)
2. Press (Menu)
3. move to **Conversion**
4. Press (Select)
Calculated amount is displayed.



Currency rate

You can set currency rate to convert to/from a particular currency.

On Calculator

1. Press (Menu)
2. move to **Currency rate**
3. Press (Select)
4. Enter a number with - up to 6 decimal places.
5. Press (OK)



Melody composer

You can compose your own melody and store it as a sound file.

From **Applications** menu

1. move to **Melody composer**
2. Press (Select)

Composing a melody

You can play a melody while composing.

From **Melody composer** menu

1. Press (Change)
2. Enter required notes with - , and
3. Press (OK)
4. move to **Name:**
5. Press (Change)
6. Enter a name for the melody
7. Press (OK)
8. Press (Save)

Key							
Note	C	D	E	F	G	A	B
Key							
Note	Rest	Note length	Set octave	Dotted Note	Sharp		

Format of the Notes

- The notes appear in a format like 2C4 by pressing .
- The first number ("2" in this case) indicates the note octave. The default value is 2. Press to change the octave from 1 to 3.
- The third number ("4" in this case) indicates the note length. The default value is 1/4. Press to change the note length from 1 to 1/32.
- To enter dotted notes (i.e. notes extended in length), press .
- To add sharp values to notes, press .
- To enter rests, press .

Accessory

PC Software

The CD-ROM supplied with your phone contains software applications which allow you to manage the information in your phone from a Personal Computer (PC), and to enable your PC to communicate with the Internet through your phone.

These applications include:

Data Connection Assistant Software

The Panasonic Data Connection Assistant Software allows you to connect a laptop or desktop PC to the Internet and other network services via your mobile phone. For further information, please refer to the documentation on the CD-ROM, or to the Panasonic website www.panasonicmobile.com.

Handset Manager

With Handset Manager you can easily manage your phone information on a PC and synchronise it back to the phone. This information includes contacts, messages, the calendar and image or sound data stored in your phone. For further information, please refer to the documentation on the CD-ROM, or to the Panasonic website www.panasonicmobile.com.



Note: A USB data cable must be purchased separately for connecting your phone to a PC. (See "Data Cable" on page 97).

Installing the Software

The software is compatible with PCs and laptops running Microsoft Windows™ 98 or later. On most PCs, the software should auto-install when the CD-ROM is inserted into the CD drive. If not, then autoplay must be manually selected in Windows Explorer. Follow the instructions that appear on the PC screen to install the software.

Downloading software upgrades

1. Browse www.panasonicmobile.com
2. Select region and language
3. Select Support > Software from the menu
4. Click "Data Connection Assistant Software" or "Handset Manager"
5. Follow the instructions to download the PC software upgrade



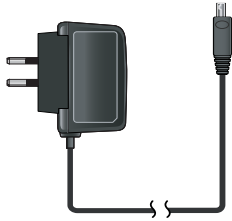
Note: Web contents may change without notice.

Accessory Options

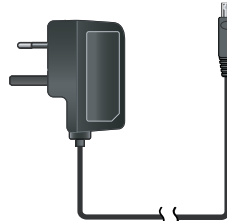
Fast Travel Charger

Carry a lightweight portable charger wherever you go to ensure you always have the power to talk. Each charger type is only available in the country / region of use.

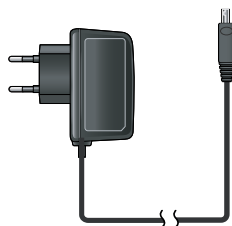
EB-CAX500AU



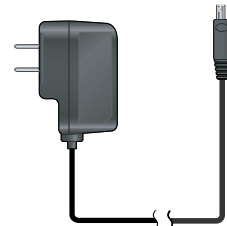
EB-CAX500UK



EB-CAX500EU



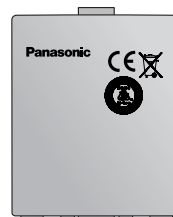
EB-CAX500US



Battery

Double your talk time by having a spare battery.

EB-BSX500



Personal Handsfree

Talk and move while keeping your hands free by using this accessory. Just place the earpiece in your ear and the adaptor in the side of the handset - and talk!

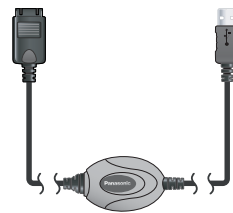
EB-EMD35



Data Cable

Use this to connect your phone to a PC so you can transfer data between them.

EB-USX500



Car Charger

Top up your battery in your vehicle by attaching this accessory to your phone and to the cigarette lighter socket.


EB-CDG60



Troubleshooting

Should any problem persist, contact your dealer.

Problem	Cause	Remedy
Phone will not switch on.		Check that the battery is fully charged and correctly connected to the phone.
Extremely short battery life for a new battery.	The network you are using and the condition of the battery can affect battery life.	
Short battery life for an old battery.	The battery has worn out.	Replace with a new fully charged battery.
The battery level indicator does not appear and the phone cannot be switched on when charging.	The battery is not attached to the phone or when the battery has been deeply discharged the phone will take a short time until the indicator lights.	Leave the phone charging the battery for a few minutes before the indicator is lit and attempting to switch it on.
Battery fails to charge.	The battery is not attached to the phone.	Ensure the battery is fitted to the phone prior to commencing charging.
	The battery has been connected to the phone after the fast travel charger has been switched on.	
	The battery has been deeply discharged. The phone will take a short time until indicator lights.	Leave the phone charging the battery for a few minutes before the indicator is lit and attempting to switch it on.

Problem	Cause	Remedy
Calls cannot be made.	The phone is locked.	Unlock the phone.
	Outgoing calls are barred.	Disable outgoing call barring, or barred dial.
	The phone is not registered to a network.	Move to a coverage area and operate your phone after it has registered with a network.
Calls cannot be made from Fixed Dial Store.		Check whether your SIM supports Fixed Dial. Check if the Fixed Dial is switched on. Check whether the phone number is stored in the Fixed Dial.
Calls cannot be received.	The phone is not switched on.	Switch the phone on.
	Incoming calls are barred.	Disable incoming call barring.
	The phone is not registered to a network.	Move to a coverage area and operate your phone after it has registered with a network.
Emergency calls cannot be made.	You are not in a GSM coverage area.	Check that the antenna symbol  is displayed – move to a coverage area and operate your phone when the antenna symbol is displayed.
Phone numbers cannot be recalled from Contacts.	The phone is locked	Unlock the phone.
	Phone number has been restricted.	Switch off restriction.

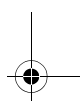
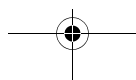
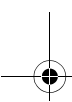
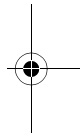
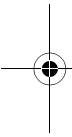
Important Error Messages

Capacity full!	The message area is full. Your messages cannot be stored until some of the currently stored messages are deleted.
Function unavailable	The selected feature is either not supported by the SIM or is not available with the current subscription – contact your Service Provider.
Incorrect: xx tries left	The entered code is incorrect – re-enter the code correctly.
Insert SIM	The phone has detected a problem with the SIM – switch the phone off and then back on; if the message is still displayed contact your Service Provider.
Invalid SIM	The SIM is blocked because one of the PIN/PIN2 unblocking keys (PUK/PUK2) has been entered incorrectly ten times – contact your Service Provider.
Capacity full!	A message has been received, but the message store is full – to receive messages, delete some of the currently stored messages or set messages to Auto Delete (MMS only).
Password incorrect: Try again	The SIM has failed one or more of the SIM personalisation checks – contact your Service Provider.
Phone number too long (Max:20)	The edited or newly created Contacts number is too long for the SIM.
PIN2 must be unblocked	The PIN2 is blocked permanently because the wrong PUK2 has been entered ten times. Services controlled by PIN2 cannot be used – contact your Service Provider.
Unlock code incorrect. try again.	On changing the phone lock code, verification of the new code is incorrect – retry changing the lock code with correct verification. Disabling or enabling the lock code has failed due to incorrect entry of the lock code – re-enter lock code.



Unregistered SIM

The network has detected an authentication failure because your SIM is not registered with that network – contact your Service Provider.



Glossary of Terms

APN	Access Point Name. Directs the user to the gateway or the required service.
CHAP	Challenge Handshake Authentication Protocol. A security feature in the GPRS network.
Copy	Copies selected text from short text message without removing it from the original message.
CSD	Circuit Switched Data. A communication method used to transmit data over telephone connections.
Cut	Permanently removes selected text from short text message.
DTMF Tones	Dual Tone Multi-Frequency tones allow you to communicate with computerised phone systems, voice mailboxes etc.
EMS	Enhanced Message Service. Upgraded feature of Text Messages.
GPRS	General Packet Radio Service. A GSM data transmission technique that transmits and receives data in packets rather than setting up a continuous channel. It makes very efficient use of available radio spectrum and users pay only for the volume of data sent and received.
GSM	Global System for Mobile Communications. The name given to the advanced digital technology that your phone uses.
MMS	Multimedia Messaging Service. Attach images and music to text message.
Network Operator	The organisation responsible for operating a GSM network.
PAP	Password Authentication Protocol. A security feature in the GPRS network.
Password	Used to control Call Bar. Supplied by your Service Provider.

PIN	Personal Identification Number used for SIM security. Supplied by your Service Provider. If the PIN is entered incorrectly 3 times, the PIN will be blocked.
PIN2	Personal Identification Number used to control the Fixed Dial Store and Call Charge metering. Supplied by your Service Provider. If the PIN2 is entered incorrectly 3 times, the PIN2 will be blocked.
PUK/PUK2	PIN/PIN2 Unblocking Key. Used to unblock the PIN/PIN2. Supplied by your Service Provider. If the PUK/PUK2 is entered incorrectly 10 times, the PUK/PUK2 will be blocked.
Registration	The act of locking on to a GSM/GPRS network. This is usually performed automatically by your phone.
Roaming	The ability to use your phone on networks other than your Home network.
Service Provider	The organisation responsible for providing access to the GSM/GPRS network.
SIM	Subscriber Identity Module. A small smart-card which stores unique subscriber and user-entered information such as Contacts and Short Messages. Supplied by your Service Provider.
SMS	Short Message Service. A basic mail system used for cellular phones. This service allows sending/receiving of short text messages.
WAP	Wireless Application Protocol. The communication standard which enables you to download resources from the Internet to your phone.

Specifications

Bands supported	GSM900 Class 4 GSM1800 Class 1 GPRS Class 4
Temperature Range Charging Storage	+5°C – +35°C –20°C – +60°C
Weight	96 g approx. (Including battery)
Dimensions (mm) Height x Width x Depth	90 x 44 x 18 approx.
Supply Voltage	3.7 V DC, 730 mAh
Standby Time Talk Time	45 - 200 hours 2.0 - 7.0 hours
Charge Time (Phone off)	Up to 120 min.
Antenna	Internal
SIM Type	3 V
Contacts Memory	200 + SIM
Memory Storage	512 KB

Note: Charge time will be longer when the phone is on. Battery life is affected by the network used and the condition of the battery. Talk and standby time depend on the upon network conditions, SIM, backlight usage and battery condition.

Licensing

CP8 Patent

CE0681

Tegic

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OpenWave™

OpenWave™ is a pioneer in the mobile data transfer industry, supplying voice and data revenue to the mobile communications sector.



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Personal Settings

Use the table below to record your GSM/GPRS WAP settings.

Item	Hint	Current setting
WAP setting		
Primary IP		
Primary port		
Secondary IP		
Secondary port		
Timer		
Homepage		
Connections		
GPRS		
Login name		
Password		
GPRS APN		
Authentication	None / PAP	
CSD		
Login name		
Password		
Phone number		
Call type	Analog / ISDN	
Transfer rate	Automatic / 9600	

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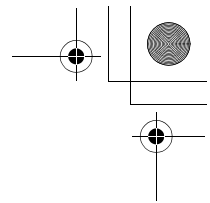
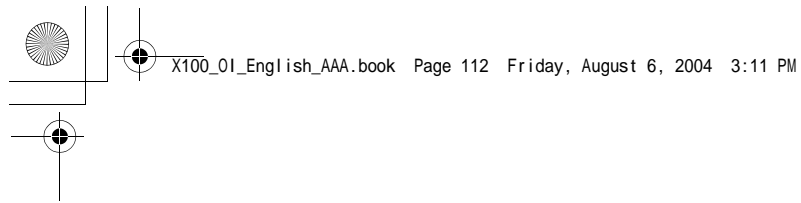
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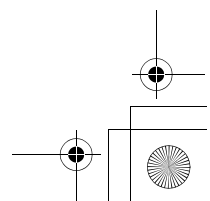
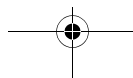
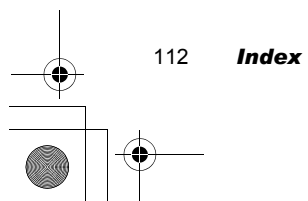
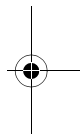
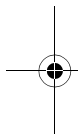
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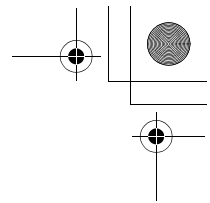
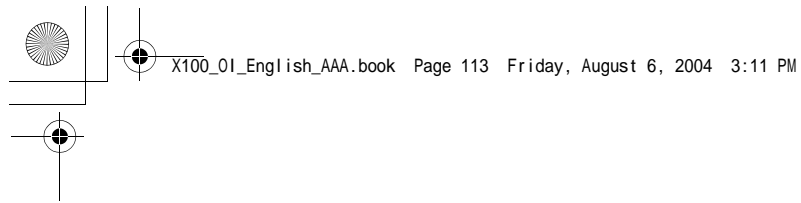
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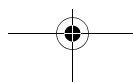
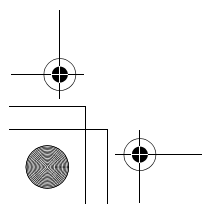
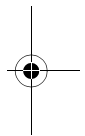
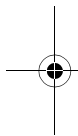


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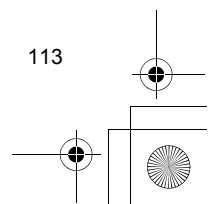


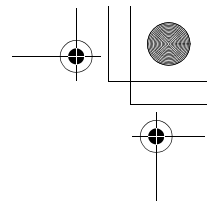
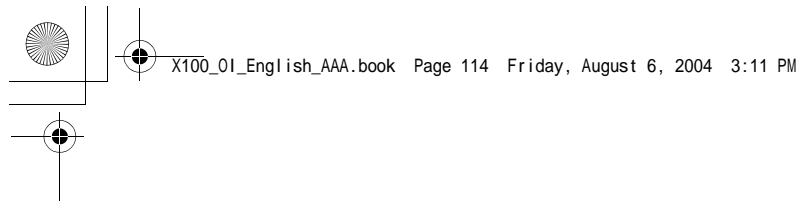
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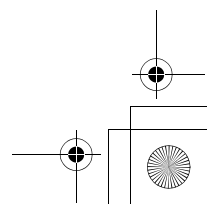
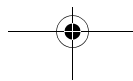
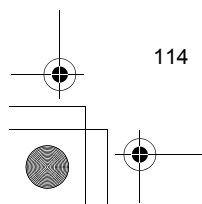
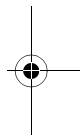
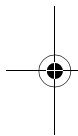
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Note



Statement according to FCC part 15.19:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Statement according to FCC part 15.21:

Modifications not expressly approved by this company could void the user's authority to operate the equipment.

Statement according to FCC part 15.105:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is disconnected.
- . Consult the dealer or an experienced radio/TV technician for help.

RFExposure portable:

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter."

RF exposure FCC:

Tests for SAR are conducted using standard operating positions specified 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 operation 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.

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) as required by the FCC for each model. (Body-worn measurements may differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only accessories that contain no metallic components and provide a separation distance of 15mm (0.6 inches) to the body. Use of other accessories may violate FCC RF exposure guidelines and should be avoided.

Health and Safety Information FCC:

Exposure to Radio Frequency (RF) Signals

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (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 the safety standards previously set by both U.S. and international standards bodies:

This EUT has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in FCC/OET Bulletin 65 Supplement C (2001) and IEEE Std. 1528-2003 (December 2003).

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 1.6W/kg*.

* In the U.S. 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.