2. TECHNICAL DESCRIPTION OF EQUIPMENT.

2.4. INSTRUCTION BOOK AND TUNE-UP PROCEDURE.

The tune-up procedure is described in the instruction book.

We are sending you a DCS instruction book. The PCS instruction book will follow. The main differences between these two books are :

- the name of the product.
- some function keys.
- some safety information for wireless handheld phones. For example the exposure to radio frequency energy, the intended position of the phone.

D21 Classe GB + rabat 3/03/98 12:54 Page 1

Congratulations on your choice of a DCS cellphone.

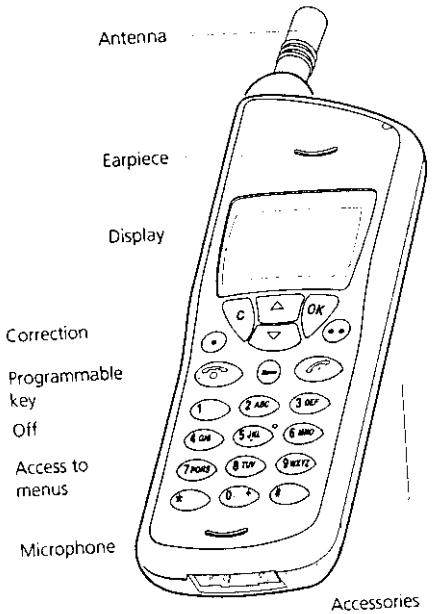
We would like to assure you that this cellphone complies with the relevant European standards.

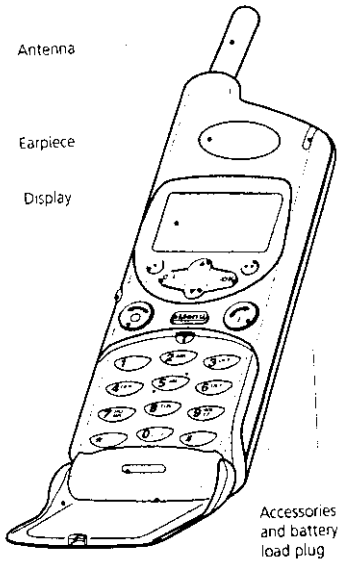
To make best use of your telephone, we recommend you to read this manual carefully.

Do not forget to charge your battery for at least one hour before making your first call.

Depending on the configuration of the networks and associated subscription cards, some functions may not be available (indicated by *). Please contact the Operator for details.

Various models ...





DIALLING

■ **National calls.**

Enter the desired phone number without waiting for a tone. Do not forget to enter the area code first.

■ **International calls.**

Press **0** (hold down) until + appears. Enter the country code without waiting for the tone, then the appropriate trunk code and the desired phone number.

■ **Emergency services.**

You can connect to the international 112 emergency number with the SIM card inserted or not (according to Operators) or if the keypad is locked, provided you are in a zone covered by a DCS network. Other emergency services may exist in other countries.

021 Liasse GB 3/03/98 16:54 Page 3

CONTENTS

Pages

PHONE PRESENTATION 8

GETTING STARTED 10

- What is your SIM card? 10
- Installing your SIM card 11
- Charging your battery 12

MAKING YOUR FIRST CALL 13

- Starting up 13
- Checking the PIN code 13
- Network selection 13
- Sending a call 14
- Adjusting the earpiece volume 14
- Mute mode 14
- Clearing a character 14
- Ending a call 14
- Answering a call 15
- Switching your phone off 15
- Silent mode 15
- Access to menus 15

ADVANCED FUNCTIONS 16

- Redial memory 16
- Phone book 16

- Moving a number from the redial memory to the phone book 18
- Storing a number in the redial memory during a call 18
- Recording voice messages 19
- Call forwarding 19
- Call barring 20
- Short message service (SMS) 20
- Additional services during conversation 22
  - Call waiting 23
  - Call hold 24
  - Multi-conference 24
  - Standard commands 25

MENU FUNCTIONS 26

- List of menus 27
- Voice messages 28
  - To listen to voice messages 28
  - To clear voice messages 28
  - To use your phone's answering machine 28
    - Selecting the operating mode 28
    - Customizing your greeting message 28
- To access phone books 29
  - Accessing the phone books by memory location number) 29
  - Accessing the phone books in alphabetical order 29
  - Displaying your own number 29
- Messages 29
  - Reading short messages 29
  - Sending short messages 30
    - Entering a new message 30
    - Consulting an existing message 30

    - Selecting the message validity duration 30
    - Selecting the message format 30
    - Transmission to a mailing center 30
    - Possibility of reply 31
  - Information broadcast by the network 31
- To consult last numbers 31
- To consult various status 31
  - Free directory locations 31
  - Battery voltage 31
  - Available time for voice messages 31
  - Call duration 32
  - Number of short messages available 32
  - Advice of charge 32
- To configure your phone 32
  - To modify your configuration 32
    - Saving mode 32
    - Using the programmable key 33
    - Answering a call 34
    - Selecting keypad tone 34
    - Choice of ringer 34
    - Sending a network beep 35
    - Sending a battery low beep 35
    - Selecting the display language 35
    - Redial memory AUTO delete 35
  - Telephone security 36
    - Locking the keypad 36
    - Changing the PIN code 36
    - Activating the PIN code 37
    - Changing the PHONE code 37
    - Activating the PHONE code 37
    - Changing the PIN2 code 38
    - Fixed numbering 38

- To use your phone in a vehicle 38
. Deactivation time-delay on phone 38
· Choice of external signal 39
· Choice of ringer 39
- To personalize your phone 39
- To configure the data supported by your phone 40
· Selecting the data type 40
· Data parameterizing 40
• Clearing information 43
- Resetting your phone 43
- Immediate erase of redial memory 43
- Clearing voice messages 43
- Total call duration reset 43
- Erase short messages 43
- Total cost reset 43
• To consult the available services 44
- Call forwarding 44
. Activating call forwarding 44
. Deactivating call forwarding 44
. Checking call forwarding status 45
- Caller identity 45
- Auto redial 46
- Call waiting 46
. Activating call waiting 46
. Deactivating call waiting 46
. Checking call waiting status 46
- Call barring 47
. Activating call barring 47
. Deactivating call barring 47
. Checking call bar status 47
. Changing the password 47
- Send DTMF tones 48

- Call charge 48
· Selecting indication type 48
· Activating credit function 48
• Using the various accessories 49
- Setting the date and time 49
- Setting the alarm 49
- Setting the timer 49
- Using the calculator 50
• To select a network 50
- Available network selection 51
- List of preferential networks 51
- To program a permanent call number 51
- Closed user group 52

ACCESSORIES 53

MAINTENANCE 55

RECOMMENDATIONS 56

AT is a registered trade mark of Hayes Microcomputer Products Inc
Hayes is a registered trade mark of Hayes Microcomputer Products Inc

PHONE PRESENTATION

FUNCTION KEYS

Off - Call rejection - Hang-up

On - Make a call - Receive a call

C — Single press: Return to previous menu - Clear a character

Hold down: Return to main menu - Clear complete input

OK — Validate selection

Menu — Access to menus

and — Programmable keys

▲ ▼ — Scroll through menus - Adjust volume

ALPHANUMERIC KEYPAD

The keypad comprises 12 keys: 0 to 9, * and #.

To display a letter, hold the corresponding key down, the digit then the letters will appear. Release the key when the desired letter appears.

This letter being displayed, you scroll the various accentuation possibilities by holding the * key down (depending on model).

DISPLAY

Battery charge indicator (black if charged, clear if discharged)

Received signal strength indicator (maximum strength: 5 bars)

Hands-free loudspeaker active

Alarm (clock, timer)

Answering machine active (answering machine full if flashing) (depending on model)

Voice messages present (unheard if flashing)

Memo or answering machine full (depending on model)

Call in progress

DATA Data call in progress

FAX Fax call in progress.

Silent mode

Short messages present (unread if flashing)

Short message memory full

Your SIM card's phone book

Your SIM card's fixed phone book

Your phone's phone book (900 to 999) (depending on model)

Incoming call

Outgoing call

Not available menu (depending on model).

The available selections are given at the bottom of the screen whenever necessary.

Validate selection

C Clear/go back to beginning

Scroll up and down

0–9 Numerical input

key possible

A–9 Alphanumeric input

Scrolling cursor

Line seizure.

GLOSSARY

Outgoing call	A call initiated with your phone
Incoming call	A call received on your phone
SIM card	The card carrying your subscription and service access rights
PIN1	The personal code attached to your SIM card
PIN2	The extra-personal code attached to your SIM card for access to certain functions.

GETTING STARTED

WHAT IS YOUR SIM CARD?

To access your phone possibilities, you will need to use the SIM card you were given when you took out your subscription. This card contains all the information the network needs, as well as other information of personal relevance, which you can change: secret PIN (Personal Identification Number) codes, phone book, mini-messages, operation of special services.

This card must be handled and stored carefully, as excessive bending or scratching could damage it. If you lose your SIM card, notify your Operator or your Service Provider immediately.
Note: Always keep your SIM card out of the reach of children.

PIN code

This is the personal identification code for your SIM card. You may be required to enter your PIN code during start-up as follows:
PIN?

- Type in the 4 to 8 digit code you received from your Operator. For security reasons, these digits will not appear on the screen.
- Press # or OK to validate.

PIN2 code

If delivered by your Operator, the second PIN code provides security of access to certain functions.

CAUTION
If a wrong PIN code is entered three times in a row, the card is locked. To unlock it, call your Service Provider for assistance.
If your SIM card is irreversibly locked, contact your Operator or your Service Provider for a new card.

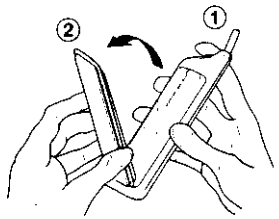
INSTALLING YOUR SIM CARD

It is advisable to switch off your phone and disconnect the charger before installing the card.

The SIM card is inserted underneath the phone battery.

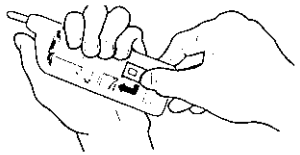
Accessing the SIM card slot

- Turn your phone over and ① free the battery by pressing the push-button located on the top of your phone then ② lift out the battery.

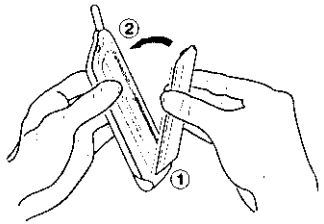


SIM card insertion

- Slide the card under the holder, with the gold contacts face down the phone and the beveled corner according to the indications shown on the label.



- Replace the battery, by first inserting the lower part ① in its housing and then tilting it ② forwards until it locks into place.



CHARGING YOUR BATTERY

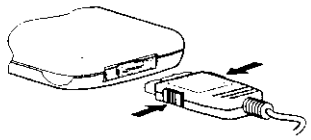
Your phone is powered by a rechargeable battery. A new battery must be charged for at least an hour before being used for the first time. A new battery's full performance is achieved only after a few complete charge and discharge cycles.

To keep your battery at optimum level, we recommend a battery regeneration which is a complete discharge from time to time (every month) by allowing the phone to switch itself off.

When your battery is discharged, the phone displays: **BATTERY TOO LOW** and turns off.

To recharge your battery:

- Connect the charger to a power outlet.
- Plug the end of the lead into the charging socket at the bottom of the phone.



- The phone starts to charge and the battery charge light (▮) indicates the charge level.
- Charging stops automatically.
- Disconnect the lead upon completion.
- During the charge, your phone is switched on. To switch it off, remove it from the charger.

It is normal for the battery to heat up slightly during charging.

CAUTION

The battery has no user-replaceable parts.
Do not attempt to open the battery box.
Only use the appropriate chargers mentioned in the manufacturer's catalogue.

MAKING YOUR FIRST CALL

STARTING UP

To make your first call:

- Press to switch your phone on.
- If your phone displays **SIM MISSING**, press and hold to switch your phone off and insert your SIM card.

CHECKING THE PIN CODE

If the SIM card access is protected by a PIN code, the phone will display: **PIN?**

Type in the 4 to 8 digit code attached to the SIM. For security reasons, these digits do not appear on the screen. Press # or OK to validate.

NETWORK SELECTION

Your phone now looks for an authorized network, according to your subscription. (Check with your Dealer or Operator for authorized networks, names and coverage).

- If an authorized network is found, your phone displays the network name on the screen and the indicator light flashes green. You are now ready to send or receive a call.
- If no authorized network is available, your phone displays **EMERGENCY SERVICE** and only the emergency services will be accessible.
- If no network is available, your phone stays in permanent SEARCH mode.

The network signal strength indicator displays permanently if coverage is available.

D21 Classe GB 3/03/98 16:57 Page 14

SENDING A CALL

When a network is available:

- Dial the desired number including any necessary area code.
- Press (the symbol flashes on the screen, call in-progress tones may be emitted).
- Conversation can start when the called party answers the call.

ADJUSTING THE EARPIECE VOLUME

You can increase or reduce the volume of the earpiece:

- Press ▲ and ▼ to set one of the 5 available levels:

■■■□□

MUTE MODE

Your conversation with a third party will be muted as long as you hold the key Menu down. Release it to resume unmuted conversation.

CLEARING A CHARACTER

You can modify an incorrect key entry:

- Briefly press C to clear the last character.
- Hold this key down to clear the entire line.

ENDING A CALL

To end a call, both when you are called or calling:

- Press , the phone displays: **END OF CALL**.

ANSWERING A CALL

- When your phone rings and displays **CALL**, press and talk.

If supplied by the network, the phone displays the calling party number (caller ID). This number is automatically copied in the REDIAL memory whether you answer the call or not.

SWITCHING YOUR PHONE OFF

- Press until the following message appears:

  POWER OFF

- Release the key, the phone switches itself off.

SILENT MODE

You can replace the ringing tone of your phone by the vibrator or a silent ringing (depending on model), by using the SILENT mode.

To activate / deactivate this mode, program and use one of the programmable keys.

SILENT mode is automatically deactivated/activated when connected/disconnected to/from your hands-free kit.

ACCESS TO MENUS

To access the list of menus, press Menu, scroll the pointer ▸ through the list with the scroll push-buttons and then press OK to access the chosen menu.

ADVANCED FUNCTIONS

REDIAL MEMORY (for last numbers)

Last used phone numbers (outgoing and incoming if available) are automatically stored in the REDIAL memory (size depending on model).

To redial a phone number:

- Select **REDIAL** menu,

or

- Press ,

the last number stored is displayed with (depending on model) the recording time for a number stored that day or with the date for a number stored on a previous day. You can also browse through the stored numbers list by using ▲ and ▼.

- Press to call the selected number.

PHONE BOOK

Phone book capacity

Your most frequently used phone numbers can be stored:

- in the SIM card - the quantity of stored numbers varies according to the card's capacity; contact your Dealer or Operator for further details,
- in the phone itself (depending on model), where you can store up to 100 numbers.

Various icons indicate in which phone book the number is stored:

- Your SIM card's phone book, capacity varies depending on the card (positions 001 to ...).
- Your phone's phone book (positions 900 to 999) (depending on model).
- Your SIM card's fixed phone book, capacity varies depending on the card.

Storing a number

- Display a screen with **MEM001** (first position of SIM) by selecting the **PHONE BOOK** menu.
- Press OK then enter the name to be stored (the number of characters accepted depends on the SIM card).
- Press OK again and enter the phone number to be stored preceded by the area code if necessary (up to 20 characters).

  You can insert pauses in the number (indicated by commas ",") by holding down *. The pauses enable DTMF sequences to be inserted following a number.
- Press OK.

Repeat the process to store additional numbers. Use the scroll push-buttons to access the available memory positions.

We recommend storing the numbers in their full international format (+, country code, call number).

Browsing through the list of stored numbers

- Display a screen with **MEM001** by selecting the **PHONE BOOK** menu. Scroll with ▲ or ▼ or enter the number of the position required.

Quick dialling

- Enter the memory number in which you stored the required phone book references, then press #.

or

- Type in the first letter(s) of the required name stored in the phone book and press .

Note: Pressing * starts a search for the next free position.

Search by name

Type in the first letter(s) of the required name then press .

The name will be simultaneously searched in both your phone and SIM phone books.

MOVING A NUMBER FROM THE REDIAL MEMORY TO THE PHONE BOOK

- Go to the REDIAL memory.
- Select the required number from the list of the last numbers called (▲ or ▼).
- Press OK .
- Your phone proposes the first free memory position in the phone book (position can be chosen using ▲ or ▼).
- Press OK .

  If no free space is found, the screen displays: **NOT FOUND**

STORING A NUMBER IN THE REDIAL MEMORY DURING A CALL

To store a phone number during the course of a call in the REDIAL memory:

- Enter the phone number.
- Press OK . The number is stored at the last position of the REDIAL memory.
- You can continue your phone call.

RECORDING VOICE MESSAGES (depending on model)

To record voice messages (no call in progress):

- Hold down Memo and talk into the microphone.
- Release Memo . Your message has been recorded. The LED flashes red.

The screen clearly indicates the recording time still available.

To playback your messages, use menu **VOC.MEM/LISTEN**.

To clear the messages you have played back, use menu **VOC.MEM/CLEAR** or **CLEAR/CLR VOC.**

✉	steady	Voice messages present
✉	flashing	At least one message not fully played back
✉	steady	Memo or answering machine full.

CALL FORWARDING

If allowed by your subscription, you can forward your received calls (incoming calls) to another number. There are various call forwarding options, for example:

- Forward all calls: all your incoming calls will be forwarded to the number you have chosen.
- Forward calls when busy.
- Forward unanswered calls.
- Forward calls when unreachable, or when outside network coverage or when switched off.

The forwarding number is linked to your SIM card subscription number and not to your phone.

Menu **SERVICES/CALL FORW.** will guide you in activating, deactivating and consulting the status of the call forwarding service.

CALL BARRING

If allowed by your subscription, you can prevent your phone from making certain outgoing calls, or receiving certain incoming calls. Access to this service depends on your type of subscription. For more information, consult your Operator or your Service Provider.

If you can access the service, you will be given a password with your subscription. You will need this password in order to activate the function, failing which you will only be able to find out whether or not call barring is active.

Menu **SERVICES/CALL BARR.** will guide you in activating, deactivating and consulting the status of the call barring service.

SHORT MESSAGE SERVICE (SMS) (*)

This service allows you to send (depending on model) and receive short messages in plain text. Your frequently used short messages can be stored:

- in the SIM card - their number varies according to your card's capacity; contact your Dealer or Operator for further details,
- in the phone itself (depending on model), which can store up to 20 short messages.

When you receive a short stored message, the ✉ indicator flashes on your phone screen and an audio tone is heard. The screen displays: **MESSAGE RECEIVED.** The LED flashes red.

You can read the messages with menu **MESSAGES/READ MSG**. The messages not completely read are displayed first. Once all the messages are completely read, the ✉ indicator ceases to flash and lights up steady.

Menu **STATUS/MESSAGES** indicates the space occupied on your memory. If no space is left, **MESSAGE FULL** is displayed when the message is received. By using menu **CLEAR/CLR MSG**, you can erase the short messages you have already read, therefore making room in the memory.

Various icons provide information on:

▮	Position of the message in the phone: from 900 to 919 (depending on model).
✉ flashing	At least one message not completely read.
✉ steady	Messages all read.
✉ flashing	Memory full with at least one message not completely read.
✉ steady	Memory full.

Note: Access to this service depends on the network. For further information, contact your Operator or your Service Provider.

ADDITIONAL SERVICES DURING CONVERSATION (depending on model)

During conversation several services are available, depending on the network, the type of subscription and the service activation status.

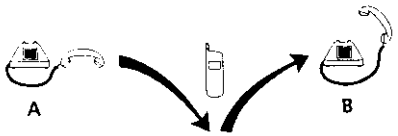
These services are:

- **Call waiting**
  Someone wants to reach you and is waiting.
- **On hold**
  To keep one or more calls on hold while you communicate with another party.
- **Multi-conference**
  To connect several parties simultaneously.

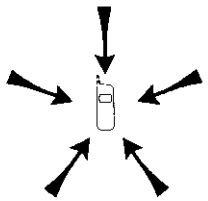
Using the keys

C to cancel a call on hold or waiting (A current call, cancel B call).

OK to switch from one call to another (A on hold, call with B).



* to merge call in a conference call.



Call waiting

During a conversation, you may be warned that someone is trying to reach you: you will hear a special tone.

The message **CALL WAIT** followed by the call sequence number (and possibly the caller's phone number) are displayed on screen.

You can then:

- **Cancel** the waiting call by pressing C. The caller then hears a busy tone.
- **Switch** call by pressing OK. The current call is put on hold, and you can answer the new call.
- **Unite** this call in conference by pressing *. All the parties can communicate.
- **Terminate** the current call by pressing ⏻. Your phone rings normally to indicate the waiting call.

D21 Lianne GB 3/03/98 16:58 Page 24

Call hold

During a conversation, you can put the current call ON HOLD by pressing OK.

The screen displays the message **CALL HOLD** followed by the hold sequence number (and possibly the phone number).

You can then:

- **Initiate** a new call.

  then

- **Switch** between the calls by pressing OK.
- **Cancel** the call on hold by pressing C.
- **Merge** several calls by pressing *. All the parties can communicate.

  Caution: In this case, pressing clears all calls.

Multi-conference

If you have established a MULTI-CONFERENCE, the screen displays **MULTIPARTY** followed by the sequence number assigned to each caller. You can:

- **Cancel** a call on hold or waiting by pressing C.
- **Switch** between the multi-conference call and a call on hold or waiting by pressing OK or make a further call.
- **Make** all the parties **communicate** by pressing * (a multi-conference is limited to 3 to 6 persons depending on the network).

Standard commands

Standard key sequences also provide access to the services described previously and open extra possibilities:

0	Cancel the call (or calls in multi-conference) on hold or waiting.
1	End any current call (or multi-conference call) and accept call (or multi-conference calls) on hold or waiting.
1 X	End current call of sequence number x.
2	Put current call (or multi-conference calls) on hold and accept the call (or multi-conference calls) on hold or waiting.
2 X	Put multi-conference calls on hold apart from the current call of sequence number X (private conversation).
3	Add the call (or multi-conference calls) on hold to the current call (or multi-conference calls).
Phone N°	Put the current call (or multi-conference calls) on hold and call another phone number.

Note
An even more convenient method to be used is putting on hold then dial and call. This enhances convenience and confidentiality, as it avoids transmitting the dialling tones to the other party, whatever the terminal configuration.

	Terminates current calls except waiting calls.

MENU FUNCTIONS

The Menu functions can be used to check or change various phone functions to suit your own personal needs.

To access the list of menus, press Menu, scroll the pointer ▸ through the list with the scroll push-buttons and then press OK to access the chosen menu.

You can directly reach the required menu by pressing Menu then typing in the number of the chosen menu.

A help line located at the bottom of the screen for each function indicates which keys can be used for next step:

To quit an action, press C.

To run through the lists, scroll with ▲ or ▼.

Whenever you want to validate an action, simply press OK.

LIST OF MENUS (depending on model)

- **VOC.MEM.** or **ANSW. MACH**
  - LISTEN
  - CLEAR
  - SETTINGS
- **PHONE BOOK**
- **MESSAGES**
  - READ MSG
  - SEND MSG
  - CELL INFO
- **REDIAL**
- **STATUS**
  - PHONE BOOK
  - BATTERY
  - VOC.MEM.
  - CALL LENGT
  - MESSAGES
  - COST
- **SETTINGS**
  - SETUP
    - SAVING MOD
    - PROG.KEY
    - ANSWER
    - KEY TONE
    - RINGER
    - NETW. BEEP
    - BATT. BEEP
    - LANGUAGE
    - RDL.AUTCLR
  - SECURITY
    - LOCK K.PAD
    - PIN CODE
    - PIN CHECK
    - PHONE CODE
    - PHONE CHCK
    - PIN2 CODE
    - FIX. DIAL
  - CAR
  - PERSONAL
  - DATA
- **CLEAR**
  - CLR SETUP
  - CLR REDIAL
  - CLR VOC.
  - CALL LENGT
  - CLR MSG
  - CLR COST
- **SERVICES**
  - CALL FORW.
  - CALLER ID.
  - AUTO RDIAL
  - CALL WAIT
  - CALL BARR.
  - SEND DTMF
  - COST
- **ACCESSORY**
  - DATE TIME
  - ALARM
  - TIMER
  - CALCULATOR
- **NETWORK**
  - SELECT NTW
  - NETW. LIST
  - VOICEMAIL
  - GROUP

MENU: VOC.MEM. or ANSW. MACH (depending on model)

■ **Menu: LISTEN**

With this menu you can listen to your voice messages and find out the time at which each one was left.

■ **Menu: CLEAR**

Triggers immediate clearing of the played back voice messages.
Note: These messages are automatically erased when using a different SIM card.

■ **Menu: SETTINGS (depending on model)**

You can use this option to customize the operating mode of your answering machine.

• Menu: MODE

Adjust the response time of your answering machine with the scroll push-buttons, and validate.

You can then activate the answering machine:

- either in normal mode
- or in filter mode (you hear your caller leave his message and you decide whether you take the call or not).

When the answering machine is activated, the ! symbol appears. The flashing ! indicates that there is no space left to save other messages or that no message has been recorded.

• Menu: GREETING

This menu allows you to customize your greeting message:

- You can listen to the existing message; the message duration is displayed.
- You can record a message: hold Menu down while recording. Your available time left is displayed.

- You can clear the existing greeting, to record another one for example.

Your greeting message must last for at least 2 seconds to be taken into account.

MENU: PHONE BOOK (depending on model)

With this menu you can access the phone books.

■ **Menu: 001 → 999**

You access the phone books by memory location numbers.

■ **Menu: ABC...**

The phone books are sorted in alphabetical order.

■ **Menu: MY NUMBER**

Your own number is displayed.

MENU: MESSAGES

■ **Menu: READ MSG**

To read the various short messages stored in the SIM card or your phone (depending on model).

Your phone informs you:

- NEW New message or message not completely read.
- Message number: MSG 1
- The date and time you received the message.
- Press OK.

Your phone displays the number of the sender of the message.
Scroll them with ▲ or ▼ until CLEAR.

Your phone indicates OLD once the message has been completely read.

■ **Menu: SEND MSG (depending on model)**

- Menu: NEW MSG

Enter the text of your new message. After validating, you can choose from several options:
- Send your message.
- Save your message.
- Modify the text of your message.

- Menu: EXISTING

This menu is used to work on already saved messages. Processing is identical to that for a new message. Select the message by using the scroll push-buttons.
If the network allows, the message sender may offer you a reply possibility.

- Menu: VALIDITY

Choose the validity duration of the message sent using the scroll push-buttons.

- Menu: FORMATS

Before typing your message, choose its format by using the scroll push-buttons: text, fax, E-mail, voice msg., pager, X.400 or ERMES. The phone will automatically return to text format after switching off.

- Menu: MSG CENTER

This menu allows you to enter the number of the messaging center which will provide its routing.

- Menu: OFFER REPLY

If the network allows, you may offer the recipient number of your message a reply possibility.

■ **Menu: CELL INFO (depending on model)**

To activate and select reception of information distributed by the network (contact your Dealer or Operator for further details).

MENU: REDIAL

This menu enables you to look through the list of the last numbers.

To clear these data, choose menu **CLEAR/CLR REDIAL**.

MENU: STATUS

With this menu you can check the various status of your phone:

■ **Menu: PHONE BOOK**

With this menu you can check the number of memory locations available in your SIM card and phone (depending on model).

■ **Menu: BATTERY**

With this menu you can check your battery's voltage. Depending on the model, you have the option of battery regeneration, indicated by at the bottom of the screen.

Press OK and battery regeneration will begin.

■ **Menu: VOC.MEM. (depending on model)**

With this menu you can check the recording time available for your voice messages.

■ **Menu: CALL LENGT**

You can check the duration of the last call, then the cumulated duration of all calls since the last reset of the counter.

■ **Menu: MESSAGES**

You can check the short messages available capacity in your SIM card and your phone (depending on model).

■ **Menu: COST (*) (depending on model)**

If the network allows, you can check the cost of the last call, then the cumulated costs of all calls since the last reset of the counter.

MENU: SETTINGS

You can check and modify the configuration of your phone with this menu.

■ **Menu: SETUP**

• Menu: SAVING MOD

This menu sets your phone to a special standby mode, thereby further increasing its available call time.

You can enable/disable the backlight and the standby screen display.

Select **N** or **Y** with the scroll push-buttons, and validate.

To reactivate the standby screen, press .

• Menu: PROG.KEY

With this function, you can configure each programmable key and :

- PHONE BOOK
  If you validate PHONE BOOK, when you press the programmable key, you will be able to read the directory.

- REDIAL
  If you validate REDIAL, when you press the programmable key, you will be able to look through the list of the last numbers.

- VOC.MEM.
  If you validate VOC.MEM., when you press the programmable key, you will be able to check the voice messages recorded.

- MEM000 to ... (depends on the SIM card used)
  Select a number from the phone book, then validate. When you press the programmable key, you will automatically call up the chosen number.

- READ MSG
  If you validate READ MSG, when you press the programmable key you will be able to read the short messages memorized in the SIM card or depending on the model, in the phone itself.

- VOICEMAIL
  If you validate VOICEMAIL, when you press the programmable key you will automatically call up the permanent special message center number, memorized in advance, using menu NETWORK/ VOICEMAIL.

- SILENT MODE
  If you validate SILENT MODE, your phone melody will be automatically replaced by the vibrator or, depending on the model, a silent ringing and all the tones deactivated.
  This mode is indicated by the symbol on the standby screen.

- Menu: ANSWER

To answer a phone call, you can either:

- automatically be connected, if you selected **Y** (yes) to the question:
  auto:
  In this case, the phone automatically answers after few seconds in hands-free kit, ignition on

- or press if you replied **SEND** to the question:
  key:

- or press any numerical key if you replied **ALL** to the question:
  key:

- Menu: KEY TONE

You can select the tone emitted by your keypad when you dial: BEEP, DTMF (musical keys) or tone inactive (in which case, the keys make no noise when pressed):

- Choose the required tone using the scroll push-buttons and validate.

- Menu: RINGER

You can set your phone to ring when receiving a call and/or messages.

A wide variety of melodies are available (including a "silent ringing") as well as a number of settings, including a crescendo.

- Choose the required tone with the scroll push-buttons and validate.
- Choose the required volume using the scroll push-buttons and validate.

Depending on the model, you may access to the vibrator setting. You can use it alone, coupled with or followed by a melody.

- Menu: NETW. BEEP

This menu allows your phone to emit a warning beep when it finds a network on which it can communicate:

- Display **ACTIVE** with the scroll push-buttons and validate.

- Menu: BATT. BEEP

This menu allows your phone to emit a warning beep when the battery is low:

- Display **ACTIVE** with the scroll push-buttons and validate.

- Menu: LANGUAGE

You can choose your phone display language:

- If you select **AUTOMATIC** the display language will be that of your SIM card (if available).

- Otherwise select a language of your choice using the scroll push-buttons, and validate.

- Menu: RDL.AUTCLR

Each time you switch your phone on/off, this function will clear the list of last numbers called and the voice messages:

- Select **ACTIVE** with the scroll push-buttons and validate.

■ Menu: SECURITY

- Menu: LOCK K.PAD

This function locks your keypad to prevent unrequested dialling in your briefcase or pocket.

If you validate **ACTIVE**, the keyboard is automatically locked after a certain period of non-use.

However you can still make emergency calls.

To unlock your keypad:
- Press * then OK.

Any incoming call acceptance with the key automatically unlocks the keypad (only during the call).

- Menu: PIN CODE

You can change your PIN code:

- In reply to the question: **OLD PIN?**, type in your old PIN code and validate.
- In reply to the question: **NEW PIN?**, type in your new PIN code (4 to 8 digit number) and validate.
- In reply to the question: **CHECK PIN?**, type in your new PIN code a second time for verification and validate.

WARNING

If a wrong PIN code is entered three times in a row, the card is locked. To unlock it, call your Service Provider for assistance. If your SIM card is irreversibly locked, contact your Operator or your Service Provider for a new card.

- Menu: PIN CHECK.

This function allows you to have the PIN code requested and checked at each startup so that if lost or stolen, your SIM card will be unusable:

- In reply to the question: **PIN?**, type in your PIN code and validate.
- Display **ACTIVE** using the scroll push-buttons and validate.

- Menu: PHONE CODE

The PHONE code is a secret code designed to protect your phone from theft. It is automatically linked to the SIM installed when it was activated.

You will receive your phone with the 0000 PHONE code and with the phone check function inactive. When this fuction is active (menu PHONE CHCK), you can customize your phone as follows:

- In reply to the question: **OLD CODE?**, type in your old PHONE code and validate.
- In reply to the question: **NEW CODE?**, type in your new PHONE code (a 4 to 8 digit number) and validate.
- In reply to the question: **CHECK.CODE?**, type in your new PHONE code a second time for verification, and validate.

- Menu: PHONE CHCK

This function allows you to have the PHONE code requested and checked at each startup, in case someone tries to use a different SIM card.

If a wrong code is entered, the time interval between each attempt increases, making the phone impossible to use.

The PHONE code can be neither changed nor deactivated with an other SIM card.

To activate :
- In reply to the question: **CODE?**, type in 0000 and validate.
- Display **ACTIVE** with the scroll push-buttons and validate.

To deactivate :
- In reply to the question: **CODE?**, type in your code (may have been changed) and validate.
- Display **INACTIVE** with the scroll push-buttons and validate. The code is reset to 0000.

- Menu: PIN2 CODE (*)

You have a second PIN code. The change procedure for this PIN2 code is identical to that given in menu PIN CODE.

- Menu: FIX. DIAL (*)

You can form a fixed numbering phone book, modifications then being forbidden without using PIN2.

Menu MEM LOCK. allows you to ACTIVATE the fixed phone book in SIM card, after entering your PIN2 code.

Menu NUM. LIST allows you to navigate in the phone book by scrolling or by entering the required memory number.
The icon ■ is associated with the fixed directory.

■ Menu: CAR

To use your phone in a car with hands-free kit, refer to the instructions delivered with the kit.

- Menu: STOP

To program the deactivation time-delay on your phone.
This time is down-counted from detection of ignition off of your vehicle (Display ♣).

- Menu: EXT.SIG (option)

To be warned that your phone is ringing while you are outside the vehicle:

- Choose the time after which the external signal is triggered using the scroll push-buttons. Then validate.

- Display **ACTIVE** using the scroll push-buttons and validate.

This signal is only effective once the vehicle ignition has been switched off.

- Menu: RINGER

A wide variety of melodies are available as well as a number of settings, including a crescendo.

- Choose the required tone with the scroll push-buttons and validate.

- Choose the required volume using the scroll push-buttons and validate.

■ Menu: PERSONAL

This function allows you to customize your display's welcome message by typing in up to 12 characters.

■ Menu: DATA (depending on model)

This menu provides access via your phone to the data and fax services, if the network and your subscription allow this.

In this mode, the phone must be "woken up" just before making a phone call, by pressing on C for example.

• Menu: MODEM TYPE

Select the type of connection between your phone and a microcomputer:
- integrated: direct connection to the serial port with a special cable.
- PCMCIA: connection via a special PCMCIA card.

This choice will be taken into account for all incoming or outgoing data/fax calls, and will be stored when the phone is switched off.

• Menu: SETTINGS

In most cases, your phone parameters need no modification, since the phone is automatically properly configured.
The factory settings are as follows:
Integrated data
Data rate : 4800 bit/s
Type : Data
Protocol : Secure links

- Menu: INTEGRATED

For further information, please refer to the documentation supplied with the cable.

You can modify the following parameters:

. Menu: DATA RATE

Check that the same speed is selected for the microcomputer and your phone.
Choices 2400 and 4800 bit/s guarantee nominal autonomy of the phone on standby.
Select 9600 eco to make and receive data calls at 9600 bit/s whilst preserving nominal phone autonomy on standby.

. Menu: TYPE

DATA operation supplies a transparent data channel (value to be used in manual mode for all non-ISDN calls).
ISDN 1200 applications which use AT codes (most cases) do not require selecting ISDN 1200 or ISDN mode, since the default mode DATA is suitable. The initialisation string must absolutely include ATB29.
ISDN 1200 operation provides access to the ISDN service for applications which authorize manual connection at 1200 bit/s.
For ISDN operation, the serial link speed is that selected in menu DATA RATE.

. Menu: PROTOCOL

The protocol provides for 2 data service modes:
- transparent mode
- secure link mode or RLP (Radio Link Protocol) which ensures data integrity.

. Menu: MAN. CALL

In a general way, your voice communications should be keypad operated, whilst data communications should use your computer's AT commands. However, data transmissions can also be operated from your keypad, by selecting the DATA function.
The phone will automatically return to SPEECH mode after switching off.

Whatever type is selected, the phone can be used to make "data" calls by using the AT interface. It is the value selected which will determine the service requested (speech or data) in the case of an incoming call with single phone numbering.

- Menu: PCMCIA

For further information, please refer to the documentation supplied with the PCMCIA card.

- Menu: RECEIVE

Use this menu to select the type of incoming call only: speech, fax/data, speech + fax only if you have single numbering for speech, data and fax services.

If you have multiple numbering (speech, data and fax), it is not necessary to use this menu.

- Menu: SEND

Some networks offer the possibility of making "speech followed by fax" calls.
Select SPEECH + FAX, then the requested number on your phone keypad.
The call is made in SPEECH mode. When you want to switch into FAX mode, activate manual emission from the microcomputer.
The phone will automatically return to SPEECH mode after switching off.

MENU: CLEAR

■ **Menu: CLR SETUP**

This menu returns your phone to a standard configuration.

■ **Menu: CLR REDIAL**

This menu triggers immediate clearing of the last numbers list.
Note: This list is automatically erased when using a different SIM card.

■ **Menu: CLR VOC. (depending on model)**

This menu triggers immediate clearing of the played back voice messages.
Note: These messages are automatically erased when using a different SIM card.

■ **Menu: CALL LENGT**

Clears the duration of the last call and resets the call counter.

■ **Menu: CLR MSG**

Clears completely read short messages.

■ **Menu: CLR COST (*) (depending on model)**

Clears the cost of the last call and resets the cost counter, after entering your PIN2 code.

D21 Liasse GB 3/03/98 16:59 Page 44

MENU: SERVICES

■ Menu: CALL FORW.

This menu concerns the call forwarding service.

• Menu: ACTIVATE

Scroll the menu to activate the type of call forwarding required. Beware of incompatibilities. For further information, contact your Operator or your Service Provider.

- UNCONDITIONAL call forwarding: all your incoming calls will be forwarded to the number you have chosen.

- BUSY: incoming calls will be forwarded only when your phone is busy.

- NO ANSWER calls are forwarded when your caller gets NO ANSWER from your phone after a period you can set by answering the questions asked by the menu.

- NOT REACHABLE calls are forwarded when your phone is not reachable, either outside network coverage or switched off.

Dial the number to which you want your calls to be forwarded to, giving the same area codes as if you were calling from your phone.

A screen message confirms activation of call forwarding.

• Menu: DEACTIVATE

Scroll the menu to deactivate the type of call forwarding required.

You can deactivate ALL call forwarding options.

Warning: Deactivating call forwarding can cause particular reactions by certain types of message handling systems.

• Menu: STATUS

This menu allows you to consult the status of the call forwarding option, and check whether it is active or not. This function is also of use when checking the number your calls are forwarded to.

■ Menu: CALLER ID. (*)

Use this menu to know the status: presentation or restriction, of:

- your identity (phone number)
- caller identity

for incoming and outgoing calls.

• Menu: YOUR ID.

- Menu: OUTGOING

You prevent your ID to be displayed on the phone of the person you are calling.

- Menu: INCOMING

When you forward the calls you receive to another number, you prevent this number to be displayed on the caller's phone (COLR).

• Menu: CORRESP.ID

- Menu: OUTGOING

This menu allows you to be aware of the final phone number your call is forwarded to (COLP).
Note: This function is possible only if the called party allows its identity to be displayed, by deactivating its COLR option.

- Menu: INCOMING

When activated, this menu allows you to have your caller's ID displayed on your phone (CLIP).
Note: This function is possible only if the caller authorized it by deactivating its CLIR option.

- Menu: ANONYMOUS

This menu allows to activate temporarily the CLIR function. When you switch your phone off, it is automatically deactivated.

■ **Menu: AUTO RDIAL (depending on model)**

You can activate auto redial systematically or on demand if your call did not complete. Any action on the keyboard will cancel it.

■ **Menu: CALL WAIT**

This menu is dedicated to the call waiting service.

Waiting calls are indicated by a tone in the earpiece and a message on the screen.

- Menu: ACTIVATE

Validate the menu to activate the call waiting service.

- Menu: DEACTIVATE

Validate the menu to deactivate the call waiting service.

- Menu: STATUS

By validating this menu, you can consult a call waiting service status in order to check whether it is active or not.

■ **Menu: CALL BARR.**

This menu is dedicated to the call barring service.

- Menu: ACTIVATE

Scroll the menu to activate the type of call barring required.

- Bar outgoing calls, that is calls made from your phone. You can choose ALL outgoing calls, outgoing INTERNATIONAL calls or outgoing INTERNATIONAL calls except those sent to your home country (NOT HPLMN).
- Bar incoming calls, that is received calls. Barring can concern ALL incoming calls or incoming calls when you are outside your home country (IF ROAMING).

In any case, you must enter your password.

A screen message confirms activation of call barring.

- Menu: DEACTIVATE

Scroll the menu to deactivate the type of call barring required.

You can also deactivate ALL call barring types.

A screen message confirms deactivation of call barring.

- Menu: STATUS

By scrolling through this menu, you can consult the status of a type of call barring, to check whether it is active or not.

- Menu: PASSWORD

This menu allows you to change the password needed to activate the call barring function. The menu acts as a guide.

A screen message confirms that the new password is active.

■ **Menu: SEND DTMF**

This function allows you to disable the transmission of DTMF tones during a conversation. You can therefore enter a number to be memorized in the phone book, or make another call, conveniently and discreetly.

Select **ACTIVE** or **INACTIVE** using the scroll push-buttons and validate.

■ **Menu: COST (*) (depending on model)**

• Menu: SETTINGS

After entering your PIN2 code, you can select the type of cost indication.

- CURRENCY: enter the currency name (maximum 3 characters) and price per unit. Ask your Operator for this value.
- PHONE UNIT.

• Menu: LIMITATION

This menu is used to activate the credit function in the selected currency after entering your PIN2 code.

MENU: ACCESSORY (depending on model)

■ **Menu: DATE TIME**

To set the date and time on your phone:

- The time flashes, adjust the time as required with ▲ or ▼.
- Validate with OK.
- The minutes flash and can be adjusted with ▲ or ▼, followed by the day, the month and the year.
- Validate after each proposal.

Your phone will automatically display the day of the week corresponding to this date.

■ **Menu: ALARM**

To use your phone as an alarm clock:

- Set the alarm time.
- Display **ACTIVE** with ▲ or ▼.
- Validate with OK.

When active, the alarm function is indicated on the screen by the ♣ symbol.

Steady flashing of this symbol indicates that an alarm time has been programmed but that the date time clock has not been set.

The bell is stopped by pressing any key. The clock however remains programmed.

■ **Menu: TIMER**

The procedure is the same as for the alarm clock, but in this case you trigger a countdown from the value you defined.

■ **Menu: CALCULATOR (depending on model)**

You can use the calculator with the following keys:

or ▲	addition
or ▼	subtraction
*	multiplication
#	division
OK	equal
C	clear
Hold down * or #	decimal point.

MENU: NETWORK

Each SIM card can memorize a list of preferential networks.

When the local network is no longer accessible (for example, abroad), your phone will automatically search for another available and authorized network through the preferential ranking listed on your SIM card.

If the list was not programmed, or if none of the networks on it is available and authorized, the phone looks for the authorized network with the strongest signal.

If none of the available networks is authorized, the phone switches to EMERGENCY SERVICE mode until a sufficient signal is found. In this case, the only authorized number is 112 (international emergency number).

If no network is available, your phone keeps on searching.
In any case, the phone always looks for its own local network first.

It is possible to force the phone manually for special cases.

■ **Menu: SELECT NTW**

Triggers a search for networks available in the present location, and displays them.

To make a manual selection of the chosen network press ▲ or ▼ and validate with OK.

■ **Menu: NETW. LIST**

To program a list of preferred networks in your SIM card:

- Scroll with ▲ or ▼ to choose from among the list.
- Validate with OK.

If the network is not listed, type in the country code and the network code (contact your Dealer or Operator for further details).

■ **Menu: VOICEMAIL**

To program a special permanent call number, type in this number and validate.
Warning: for network specific services, such as message centre, speed dialling is valid only if the area you are calling from is covered by the network. In certain cases, it is better to use an international phone number.

You can call this number directly by pressing the programmable key if validated in VOICEMAIL via menu SETTINGS/SETUP/ PROG.KEY.

■ **Menu: GROUP (*)**

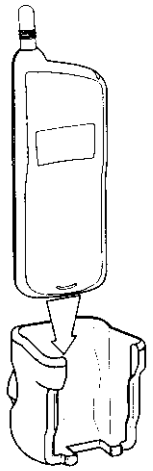
Depending on your subscription, use this menu to transmit a predefined Closed User Group number, none Group number or select a Closed User Group.

The CUG number is displayed on the screen, until you switch your phone off.

ACCESSORIES

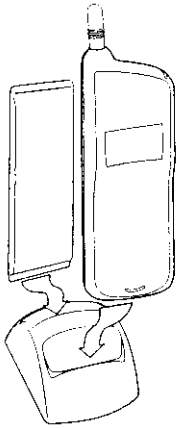
Various accessories are available for your phone:

- Additional batteries.
- Additional chargers:
  - standard charger
  - travel charger.
- A vehicle cradle.



- A cord used to transmit data to a laptop microcomputer.

- A desk charger.



- Cigar lighter chargers:

  - standard model
  - model with aerial connection.

- Various hands-free kits for use in car or by pedestrian.

CAUTION

Do not connect/disconnect the special connector to/from your phone during a call.
It is forbidden to use the EXTERNAL SIGNAL function to activate vehicle lighting or the horn on a public thoroughfare for notification that a call has been received.

MAINTENANCE

Clean your phone with a lightly moistened clean, lint-free cloth.

WARNING

Certain chemical products may damage plastics. Never use spray cans or certain special cleaning products, corrosive products, solvents, alcohol and detergents.

RECOMMENDATIONS

Use of your phone is subject to safety rules designed to protect the user and his or her environment.

Electrical safety

- Only use the appropriate chargers recommended in the manufacturer's catalog. Using another chargers may prove dangerous and could invalidate the warranty of your phone.
- The mains power socket should be easily accessible.
- The mains voltage must correspond to the level marked on the charger identification plate.

The CE marking on the equipment is in compliance with the directives 91/263/CEE - 89/336/CEE - 73/23/CEE, modified 93/68/CEE

Aircraft safety

- Switch off your phone before boarding an aircraft as it could disrupt aircraft operation and the cellular network as a whole. Use of a cellphone in an aircraft is illegal and failure to observe these safety rules may lead to prosecution and/or subsequent denial of cellular network services.

Explosion hazard

- When near a filling station, it is advisable to switch off your cellphone.
- Regulations restrict the use of radio equipment in chemical plants, fuel depots and places where blasting is carried out. Compliance with these regulations is recommended.

Road safety

- Except in an emergency, do not use your phone while driving, without fitting a hands-free device that ensures that you retain full freedom of movement. To ensure that all your attention is given to driving, stop in a safe place to use your phone. Comply with applicable legislation.
- If inadequately protected, certain electronic systems in a vehicle may react to the waves emitted by your phone. We recommend that you only use your phone in a vehicle equipped with an external aerial.
- Your phone should only be installed in your vehicle by fully qualified technicians (except for the "easy install" materials).

Non-ionising radiation

- To make best use of your phone, operate it in the vertical position. This will also help to improve your personal safety.
- If installed in a vehicle:
  - check that a non-radiating cable connects your radio equipment to the aerial
  - check that no part of the body is in permanently close proximity to the aerial, unless there is a metal screen (for example the roof of the vehicle, etc.).

Medical electronic appliances

- Your cellphone is a radio transmitter which may possibly interfere with medical electronic devices, such as hearing aids or pacemakers. Your doctor or medical appliance manufacturer will be able to provide further advice.

General precautions

- Do not try to open your phone and repair it yourself. The manufacturer cannot be held liable for any resulting damage.
- Any work done by an unqualified and unauthorized person will invalidate your warranty.
- Do not use your phone in humid places (bathroom, swimming pool, etc.). Protect it from splashing water and other liquids.
- Do not expose your phone to extremes temperatures.
- Keep your phone out of the reach of small children.
- Only use your phone with original accessories. Failure to comply with these rules will invalidate your warranty.
- The physical and chemical processes used in rechargeable batteries mean that temperature limits must be followed during rapid charging. Your terminal automatically protects the batteries from temperature extremes.
- If your phone is disconnected from the battery for an extended period of time, it will lose the time and the recorded voice messages.
- If is extremely inadvisable to connect your phone to the charger when no battery is installed.
- To avoid any risk of demagnetisation, keep your phone away from materials such as diskettes, credit cards, etc.

WARNING

The manufacturer cannot be held liable for any failure to comply with the above recommendations or for any misuse.

23304789-7A / 03.98