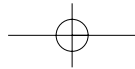


The handset CH70 will provide you with the greatest possible degree of flexibility and mobility due to high battery capacity, practical weight, size and design.

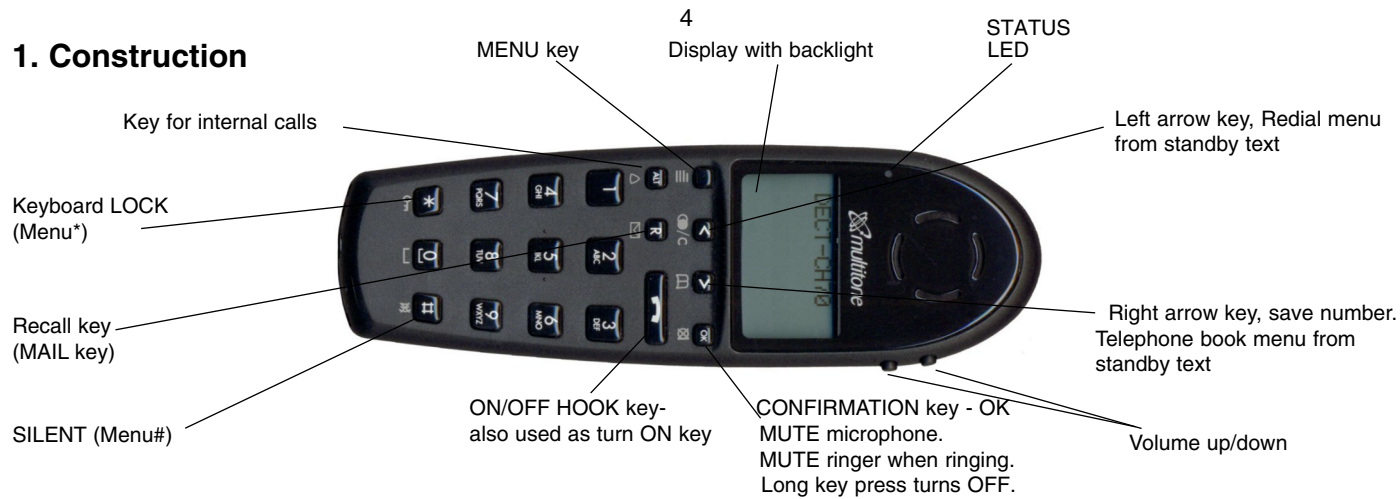
This user guide also includes details of features that may be used with Multitone messaging products, P318 and Access Integrator. The CH70 Handset may be used with the Kirk telecom product range DECT-Z System 1500 and System 500 and may also be used with other Communication Systems that support DECT-GAP. The features available will be limited to those supported by the Host PABX.

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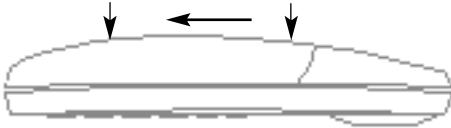
## 1. Construction



## 2. Battery installation

Before using the telephone it is important that you connect the battery to the connector in the battery box. Assemble the back cover as described below and place the handset into the charger. It is recommended that you charge your handset for for 14-16 hours, prior to use.

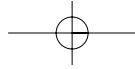
1. Push the back cover 5 mm towards the headset plug using your thumbs.



2. Lift off back cover.
3. If the battery is not already installed, place battery plug in the slot in the battery box.
4. Insert battery with the label readable and replace cover.



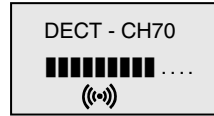
Place the battery plug in the slot with red wire closest to the mark ★ (see figure)



### 3. Charging

It takes approximately 3 1/2 hours to charge the handset from fully discharged to its full capacity. Place the handset in the charger. The display shows the charging status. For correct charging the room temperature has to be between 0°C and 25°C and the handset must therefore not be placed in direct sunshine. The battery has a built-in heat sensor which will stop charging if the battery temperature is too high.

It is necessary to recharge the battery when the display shows "BATTERY LOW", or if it can not be turned on. The LED flashes at a low frequency while charging and lights constantly when the charging is finished. The display goes back to normal mode when fully charged.







When the handset is placed in the charger the vibrator will not work and the B-answer function is inactive even if chosen. **NOTE!** If the battery is fully discharged charging may take up to 10 minutes to initiate.

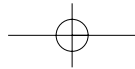
To check the Battery Status - Menu - > - > Menu Battery - OK

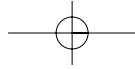
### 4. Key Functions

The handset has 21 keys, Some have multiple functions :







Two keys are placed at the right side for volume control. Press upper or lower key to change the volume. Each key-press turns volume one step up/down.

- "MENU"  - Go to menu structure or exit the menu structure. (Enter or Exit)
- " < ", "REDIAL"  - From standby text: Redial menu. - left arrow key, Cursor left to find required number.  
- press "OK" to access sub menu, right arrow selects - Delete, Store & Delete all options.
- " > ", "BOOK"  - From standby text: Telephone book read. - right arrow key, Cursor right to find req'd No.  
- press "OK" to access sub menu, right arrow selects - Delete, Edit No. & Edit Name options.
- " OK ", "MUTE"  - In off hook: Mute.- Confirmation (»Mic. Muted«). Long key press turns the handset OFF.  
Or if Menu is pressed, jump to next level in the menu.







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- “ALT”  -Residential systems SOHO & CS100: Internal calls off hook, and internal recall if already offhook.
- “R”  - If offhook: Recall. If onhook: Read a message.
- “” - On hook/off hook and turn ON.
- ” \* ”  - \* (Change from pulse to DTMF on Multitone CCFP), Long = pause (-), extra long: change from pulse to DTMF (a “T” appears in the display, GAP standard).
- “0-9”  - Digits or letters in alphanumeric mode (names and messages)
- “ # “  - #, Choose uppercase or lowercase letters in alphanumeric mode.

## 5. Turning the handset ON/OFF

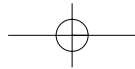
ON: Press -key for 1/2 second.

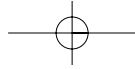
When the handset is turned on the  symbol is shown in the lower left corner of the display, if the handset is subscribed to a system. (For subscription, see 8.5.1)

OFF: Press the “OK” (MUTE) key for 3 seconds.




Please note: When the handset has been outside the coverage area, it can take up to 30 seconds before the handset is back on the system after re-entering the coverage area.

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
## 6. Making a call

For making or receiving calls the handset has to be subscribed to a system (  shown in display) (see chap. 8.5.1)  
Press the -key, the -icon in the display will flash until connection is established  
Dial the number



### Pre-dial:

Press the number to dial (long press on »\*« will make a pause, if necessary)  
Press the -key, the -icon will flash until the connection is established

### Telephone book:



Press the >-key (book-key) to enter the telephone book  
Search for the number either by using the <-key or the >-key or by pressing the first letter in the name by using the digits 1 – 9 (see chap. 8.2)  
Press the -key, the -icon will flash until the connection is established

### Redial:


Redial / CLIP (CLIP = Calling Line Identification Presentation) stack:  
Press the <-key (redial-key) to enter the redial/CLIP stack  
Search for the number by using the <-key or the >-key, redial numbers are marked with REDIAL or name and clip numbers are marked either with CLIP or the name of the person who called and the LED is on.  
Press the -key, the -icon will flash until the connection is established.

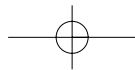
Using the handset in residential systems: (not in CS600 and CS100)

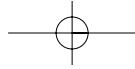
Internal call post-dial:

Press the INT-key, the -icon in the display will flash  
Dial the number of another handset on the base station, the -icon will flash until the connection is established


Internal call pre-dial: (not in CS600 and CS100)

Press the number of another handset on the base station  
Press the INT-key, the -icon will flash until the connection is established





## 6.1. Receiving calls

If the phone rings, the call can be answered by pressing the -key.

When ringing the LED flashes fast, and the display shows the CLIP (if presented). If it is an external call (or if no CLIP) the display shows "INCOMING CALL"

It is possible to stop the ring signal without answering the call. Press MUTE (OK) and the ring signal is muted. Display shows: »RINGER MUTED«

## 6.2 During conversation

### 6.2.1 Volume regulation:

Use the two keys placed at the right side of the handset for volume control.


### 6.2.2 Microphone mute:

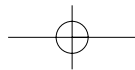
Press the OK-key (mute-key), MIC. MUTED is showed in the display.

Press the OK-key (mute-key) to enable the microphone again.

### 6.2.3 Transferring the call to another handset:

Press R, and dial new number.

Press the -key and the call is transferred to the other handset



## 7. Set ups

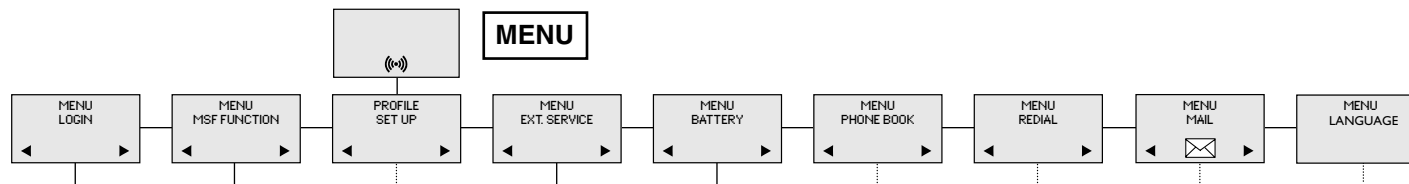
The handset has two user-defined profiles (set ups), and a mode where all sounds are disabled (SILENT). Pressing "MENU" followed by "OK" will show the chosen profile. A new profile can be selected by using the arrow keys. To select the chosen profile press "OK". To escape (without storing anything) press "MENU" again.

A quick way of choosing a profile, is to press "MENU" and then 1, 2 or # (1 is the INDOORS, 2 is the OUTDOORS profile and # is SILENT). To change the set up in a profile, press "MENU" followed by "OK" twice. All settings have to be defined under each of the two profiles. The display shows if the SILENT mode or PROFILE2 is chosen.

## 8. Menu structure

Pressing the MENU-key, enters or exits the menu structure. It has to be used if a "NO" or "CLEAR" is wanted in the menu structure.

Pressing the OK-key, jumps to a lower level in the menu. When the lowest menu level is reached, it will store the setting and jump to a higher level. It has to be used if a "YES" (select option) is wanted.



The phonebook and redial menu can be accessed directly. The phone book by pressing the > -key (book-key) and the redial menu by pressing the < -key (redial-key).

## 8.1 Using the alphanumeric keyboard

The normal dialling keys (0-9) are used for writing the name to be placed in the telephone book. By pressing the keys a certain number of times the related letters or digits will appear in the display. Spaces are made by using the 0-key. Key # changes between uppercase and lowercase letters. The arrows will move the cursor. Left arrow is also used for deleting (hold for 1 sec.) = delete. New letters can be inserted.

Change of key press and pauses lasting more than 1 second automatically moves the cursor to next position.

## 8.2 The key functions

Key	
1	Æ Ø Å @ Ä Ö ß Ü 1
2	A B C @ Ä Å Ä Å 2
3	D E F 3
4	G H I Î 4
5	J K L 5
6	M N O Ö Ó Ò 6
7	P Q R S ß 7
8	T U V Ü Ú Û Ü 8
9	W X Y Z 9
0	Space . , _ - + : ? ! 0
*	* # / \ ( ) = &
#	Upper/lower-case

Keys 1 to 9 and 0 also have a "long press" function. A long press of 3 seconds will cause the handset to "beep". The feature available for the soft keys are used with Multitone applications products, Access Integrator and P318.

See [www.multitone.com](http://www.multitone.com) for further information.

### 8.3 Profile set-up

In the following you will find a description of how to set up one of the 2 profiles. To enter the Profile Setup menu press "MENU". Then press "OK" and use > or < to find the profile you wish to change and confirm with "OK". You are now able to switch between the different settings. Press "OK" when you find the setting you wish to change (or see). Change the setting according to your needs, confirm with "OK" and you automatically go to the next setting. Press "Menu" to finalize profile setup.

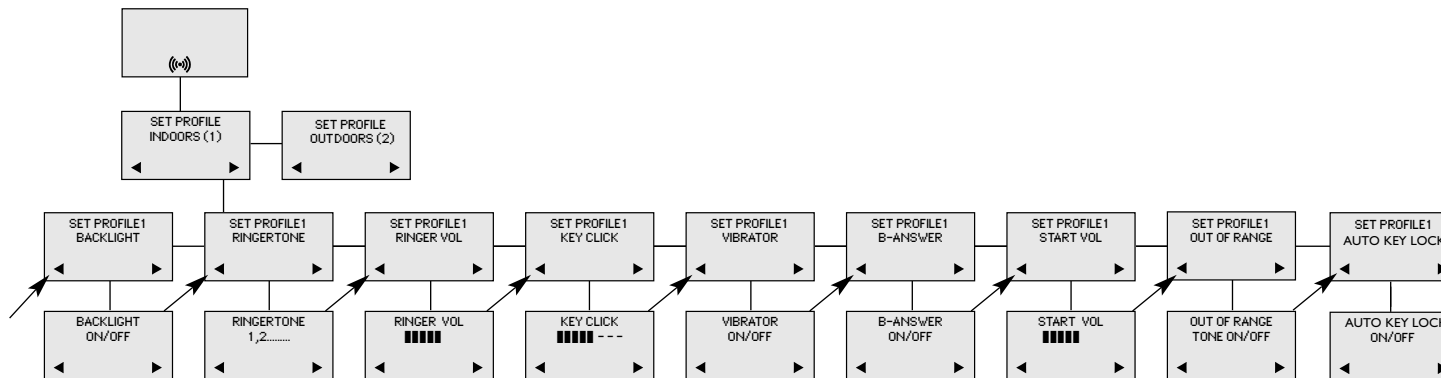
#### 8.3.1 Start up text

When the handset is turned on it will display "DECT-CH70" for 3-4 seconds. Once the handset is registered to a user the display will show the registered users name. The start up text may be changed using the following procedure.

Press \* \* \* \* - > - OK. enter the new start up text followed by ok. A maximum of 24 characters may be used.



#### Profile set-up Menu



### 8.4 Profile functions

**BACKLIGHT:** Can be turned on/off using the > and <. Confirm with (OK).

**RINGERTONE:** Scroll through the 9 different ringtones using > and <. Confirm with (OK).

**RINGER VOL:** Turn the volume up and down using > or <. Confirm with (OK).

**KEY CLICK:** Turn the volume up and down using the > and <. Confirm with (OK).

**VIBRATOR:** Can be turned on/off using the > and <. Confirm with (OK).

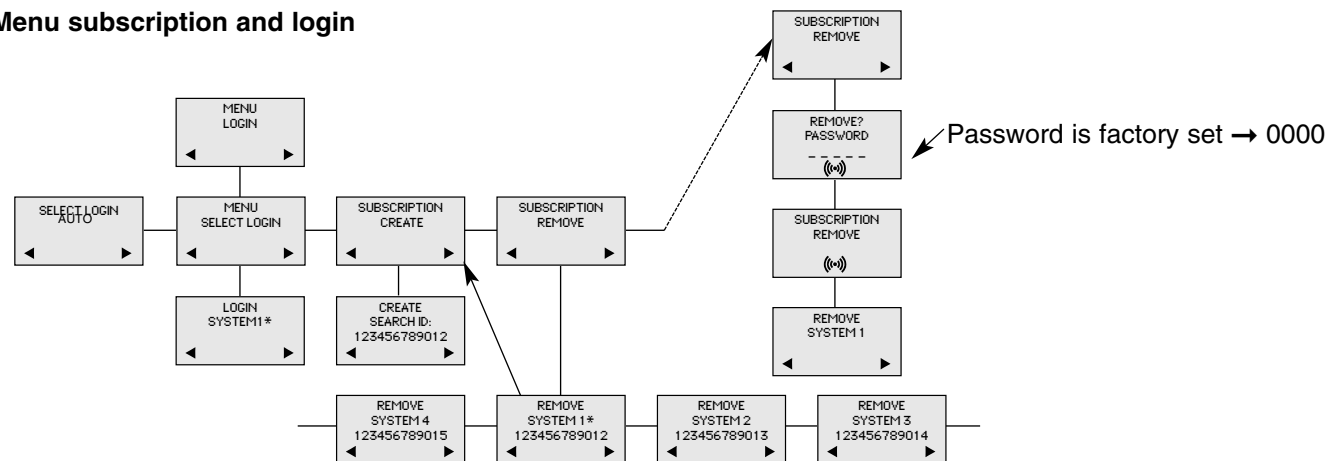
**B-ANSWER:** Can be turned on/off using the > and <. Confirm with (OK). When turned on, the telephone automatically goes off hook when ringing. If subscribed to a Multitone system it automatically goes on hook when calls are terminated. Note: The on hook feature may be dependent on the PABX settings.

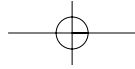
**START VOL:** Start volume can be adjusted using the > and <. Confirm with (OK).

**OUT OF RANGE:** The out of range tone Can be turned on/off using the > and <. Confirm with (OK). With the Out of range tone turned on, a beep will be heard when the telephone is moving out of range of the base station and "Out of range" will be displayed.

**AUTO KEYLOCK:** Can be turned on and off using the > and <. Confirm with ok. with auto keylock on, the keypad will lock After 60 seconds. Press \* to activate the keypad.

### 8.5 Menu subscription and login





### 8.5.1 Create subscription


To make subscriptions, the system must allow subscriptions to be made. Some systems also require an Access Code (AC). If more than one system currently permits subscription, you will need to know the ID of the system to which you wish to subscribe. Access Codes and system ID's will be provided by the system administrator.

If the handset is already subscribed to 4 or 10 systems, you will have to remove a subscription before creating a new (see 8.5.3).

Choose the SUBSCRIPTION CREATE menu to subscribe to a new system. (see 8.5)

Use the < and > keys to scroll between the ID's of the different systems available.

Choose the system you wish to subscribe to. When a subscription is available, enter the free system using < or > and the AC (if required) using the keyboard, and press (OK).

If the subscription was successful, the standby text and  is shown in the display. If not, the subscription has failed and the procedure must be retried.

NOTE: Handsets with SW PIE 4K or later (\*99982\*-OK) allow the first subscription without using login.

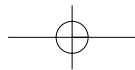
### 8.5.2 Login

Handsets up to SW PIE 4G can be subscribed to 4 different systems. Handsets with SW PIE 4K or later can be subscribed to 10 systems, enabling you to use the same handset on 4 or 10 different systems.

If you would like to change to another system, use the login menu to connect to another system number, or select Auto login if the option is available see 8.5.3. The actual chosen system is shown with the red LED on.

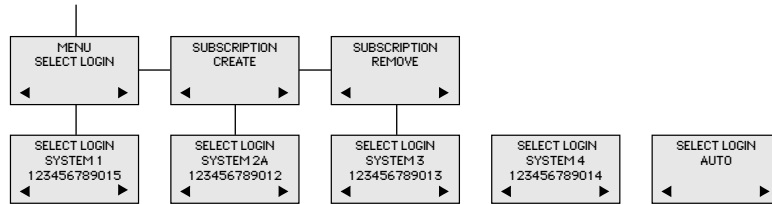
To change to another system use < or > and press OK to confirm.

To be able to log on to a system, subscription to the system has to be established. (See 8.5.1).



### 8.5.3 Auto login

The handset can be subscribed to 4 or 10 different systems. \* If Auto login is chosen from the menu, the handset automatically selects the closest system. The selected system is marked with an “\*”.



\* SW PIE to 4I =4 Systems SW PIE 4K and later 10 Systems

**Please note:** Auto login should only be used in separate systems without overlaps.

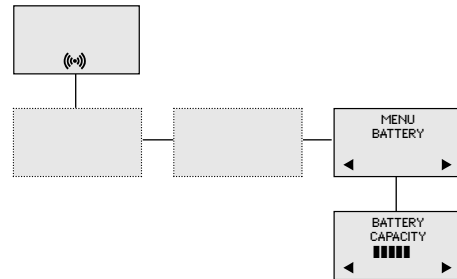
### 8.5.4 Remove subscription

Subscriptions can be removed from the system in use and from any other systems (if connected). Removing a subscription requires a password. Password is factory set at 0000. If the system in use is removed, it is necessary either to select one of the remaining systems or to subscribe to a new one. If one of the systems not chosen is removed, the handset remains connected to the system in use.

## 8.6 Battery capacity

In the battery menu it is possible to see the remaining battery capacity. For reading the correct capacity, the handset has to be removed from the charger for at least one hour. Press "Menu" and use the > or < keys to reach the Battery Menu. Press "OK" to enter the menu, and you can see the current status of the battery capacity. Press "OK" to return to the menu system or press "Menu" to quit.

The indication on the display is not necessarily an exact reflection on the remaining speech time.



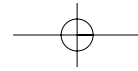
## 8.7 Redial

The handset has maximum 10 or 15 redial numbers Depending on the software version and 10 Caller ID's placed in the same stack. Each number is only represented once. Enter the redial menu by pressing "<" (Redial) from the standby text. Repeated presses at the "<" button turn backward through the dialled numbers and CLIP numbers (from newest to the oldest). Right arrow moves in the opposite direction. It is also possible to reach the redial menu in the main menu. Numbers are named "REDIAL", "CLIP" or with the name.

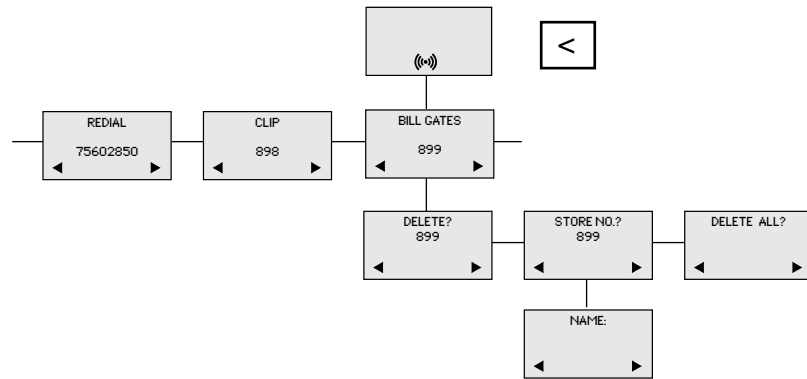
The LED will flash slowly if a new number (unanswered call) has arrived in the CLIP stack. If no number (no clip) is represented by a call only the LED will flash slow afterwards.

If you want to delete a "CLIP" or a "REDIAL" you scroll to the name/number and press »OK« twice.

The name/number is now deleted. If number is stored, it is moved to the telephone book.

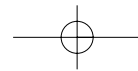
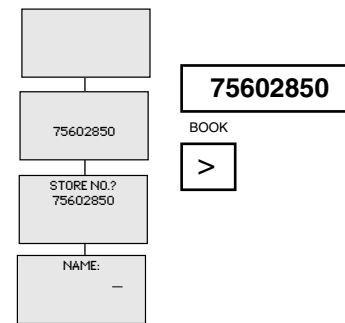



The Redial and CLIP stack Menu

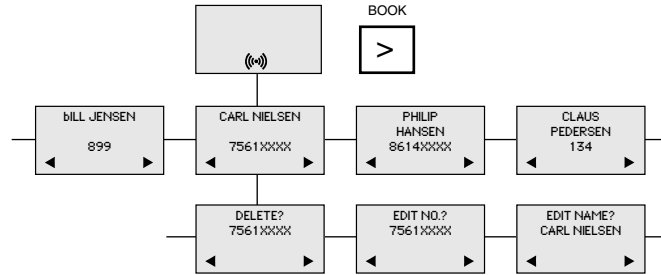


8.8 Telephone Book


Storing a number (max. 24 digits) in the telephone book is done by pressing the number to be stored (in on hook), then press the “>”- key followed by the “OK” key, the book can store up to 65 numbers with name. Typing of the name and a confirmation is required. After storing the telephone will go back to standby mode. If the display shows “MEMORY FULL”, it is necessary to delete one or more numbers from the telephone book. (See menu structure page 30)

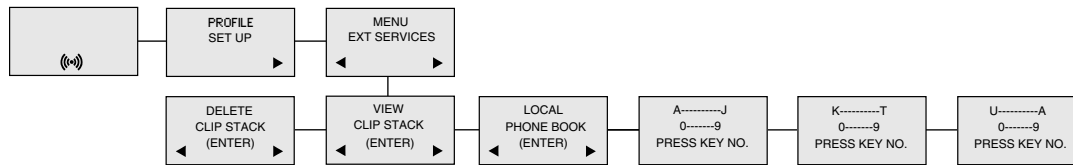


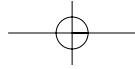
Read BOOK numbers: The telephone book is entered by pressing ">"(book). For quick-search: press the first letter of the name (using 1-9)(see chap. 8.2). Call the displayed person by pressing the  key. It is also possible to reach the telephone book menu in the main menu.



### 8.9 External services

External services gives access to the "calling line identity party" clip for other DECT user's that called you. Missed calls from the Host PABX will be listed as Ext Call. All calls are time and date stamped. To return a call that has a clip name and number press the "off hook" key  Ext Calls can not be called back. To delete all clip calls go to the menu "Delete clip stack" and press "ok". The local phone book contains the of all of all CS600 system users as well as other external numbers entered by the system administrator. For example the system administrator could add the number for Multitone, 00-44-1256-320292 press the number associated with the destination phone number required,(2=M) for any users or company whose name begins with M.






## 8.10 MSF Functions

MSF Functions are special functions, which are based on MSF (Message Service Function). The functions require special software in the main system.

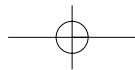
Multitone MSF product range includes Access Integrator and P318 messaging interface. These products are designed to enhance the messaging functionality of the CS600 or CS100. Both products may be connected to your local alarms, fridges, freezers, machinery or door alarms to alert on site personnel carrying a CH70 DECT Handset. Access Integrator also connects to the local IT Network to allow messages to be sent to a single user or team of users from a PC. For further information contact [www.multitone.com](http://www.multitone.com)

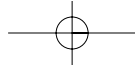
## 8.11 Mail/Textmessages

*Available in systems configured with textmessaging software or equipped with P318 or Access Integrator.*

At the reception of a text message the envelope icon  appears in the display. Up to 14 messages can be "stored" in the handset; The 15th message will overwrite the oldest message. The message can be of a maximum of 36 characters per screen. 2 screens (72 characters) can be displayed.

To read the message: Press the "R" - (MAIL) key or enter the mail menu. The text message is shown in the display, Use the < > characters to scroll through messages. The (R) character indicates a message has been read, (N) is unread and (L) is locked. If the message contains a callback number, this will be displayed on the bottom line of the display. If the callback number contains more than 12 digits, only the last 12 digits are displayed. It is possible to read all the digits by pressing the MENU-key. As long as the callback number is in the display, it is possible to activate the number by pressing the HOOK-key.





**Read a mail**

Press the "R"- (MAIL) key followed by the OK-key or enter the mail menu (in on hook condition).  
If the message includes more than 36 letters or digits, the message will run over 2 display screens.  
Use the > -key to scroll.  
To see the **sender** of the mail, press the OK-key.  
To leave the mail, press the " " -key.

**Reply a mail**

Open the mail by pressing the R-key followed by the OK-key, press the OK-key again and use the < >-keys to find the reply feature, press the OK-key and you are then able to reply the mail. After writing your reply press the OK-key to confirm.

**Forward a mail**

Open the mail by pressing the R-key followed by the OK-key, press the OK-key again and use the < >-keys to find the forward feature, press the OK-key twice and you are then able to write the number on the receiver. Confirm with the OK-key.

**Delete all mail**

Open the mail stack by pressing the R-key followed by the OK-key, press the OK-key again and use the < >-keys to find the delete feature, press the OK-key and all mails are deleted.

**Delete a mail**

Open the mail by pressing the R-key followed by the OK-key, press the OK-key again and use the < >-keys to find the delete feature, press the OK-key and the mail is deleted.

**Lock/unlock a mail**

Open the mail by pressing the R-key followed by the OK-key, press the OK-key again and use the < >-keys to find the lock/unlock feature, press the OK-key and the mail is locked/unlocked.

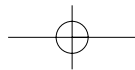
**Write a mail**

To write a new mail press the R (mail)-key, confirm with the OK-key and write your message. To send the mail press the OK-key, type the number of the receiver and confirm with the OK-key.

If one or more mails are stored do as followed: Press the R (mail)-key followed by the >-key confirm with the OK-key and write your message. Press the OK-key, type the number of the receiver and confirm with the OK-key. The message is send.

**Note**

*In case a sent message is not received, the sender will get a message in the display.*



## 9. Shortcuts

"INDOORS PROFILE": Press: MENU 1.

"OUTDOORS PROFILE": Press: MENU 2. (Display shows PROFILE 2)

"SILENT": Press: MENU #. (No sounds) (Display shows SILENT)

"KEY LOCKED": Press: MENU ★. (Display shows KEY LOCKED)

"PHONE BOOK": Press >(BOOK) key in standby.

Name search in telephone book: Press the first letter in name and > (book) afterwards.

Store a number: Press >(BOOK) after the number (in on hook).

"REDIAL "and "CLIP": Press <(REDIAL) key in standby.

"MAIL": Press R(MAIL) key in on hook.

MUTE temporarily the ringer: Press "OK"(MUTE) when the telephone is ringing.

MUTE the microphone: Press "OK"(MUTE) when the telephone is off hook.


RECALL: Press the INT key if residential system, else press the "R"-key.

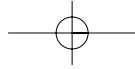
Pause(-): Hold \* for one second.

Change from pulse to DTMF(T): Hold ★ for 2 seconds.

## 10. Information

### 10.1 Error tree

Problem	Check
The telephone freezes.	Remove and replace the battery pack. Press  to turn on the telephone.
The telephone does not ring.	Check whether the ringer is SILENT or RINGER VOL. is OFF.
The telephone cannot find a system ID at "SUBSCRIPTION CREATE".	Check whether the system CCFP is set to allow subscriptions.
The telephone cannot subscribe even if system ID has been found.	Check if Access Code is necessary (A/C can be up to 8 digits).
Not possible to turn on the telephone	Check if battery is connected. If yes, charge the battery.



### 10.2 Error information

Improper function of the handset might be related to the installation of the DECT system or failures related to the main system. Before declaring a handset for repair be sure that the main system is operating properly.

### 10.3 Warranty

The handset is covered by a normal warranty-solution, except the battery. The lifetime of the battery depends on the general use of the handset.

The handset is not covered by a general warranty if:

- The handset is exposed to water or metal dust
- The handset is mistreated
- The handset is exposed to unauthorised break-in

### 10.4. Technical information - Approvals:-

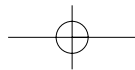
Europe - Radio & Telecommunications Terminal Equipment Directive 1999/5/EC (see accompanying leaflet);

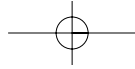
United States - FCC Part 15; UL1950

Canada - RSS 210; CAN 22-950

This device complies with Part 15 of the FCC Rules and Industry Canada Standard RSS210. 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.

Any modifications to this handset not expressly authorised by Multitone, could void the user's authority to operate the equipment.





### 10.5 Safety & Product Information

Before using your telephone, read this User Guide and follow any warnings and instructions.

Use only a damp cloth for cleaning. Avoid liquid, or aerosol cleaning agents.

The handset charger must be placed on a hard flat surface. Do not install the charger near any sources of water, or in damp conditions. Use only the power adapter provided, or a recommended equivalent and do not overload wall outlets and extension cords, as this can result in fire, or electrical shock. If in doubt, consult your dealer or local power company.

Operation of the handset in the proximity of microwave appliances or radio/TV equipment, may be subject to interference.

Do not use the handset where there is a danger of electrically ignited explosions eg. gas leaks, or petroleum vapour.

**NB** Unless special provision has been made, this handset will not operate in the event of a power blackout. Keep a back-up phone for emergencies.

Do not expose the handset to direct sunlight for long periods, or excessive heat and moisture. Do not attempt to disassemble the handset. If it has been adversely exposed to liquid, dropped or damaged, or does not operate as intended, please refer to qualified service personnel.

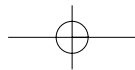
#### Battery Information

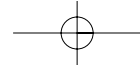
THIS PRODUCT CONTAINS NI MH BATTERIES. THESE BATTERIES MUST BE RECYCLED, OR DISPOSED OF PROPERLY. DO NOT DISPOSE OF IN FIRE, OR MUNICIPAL WASTE. CHECK WITH LOCAL CODES FOR SPECIAL DISPOSAL INSTRUCTIONS.

Use only specified batteries in the handset, as other battery types eg Alkaline or Lithium, may lead to hazardous conditions. Do not use non-specified charging devices, as this could damage the batteries. Periodically clean the charge contacts on both the handset and charger.

Exercise care when handling batteries, to avoid shorting contacts with conductive materials such as jewelry, or keys. Do not open or mutilate the batteries, as the electrolyte is corrosive and toxic.

Batteries may heat-up slightly during charging. This is normal and not dangerous





### 10.6 Specific Absorption Rate (SAR) Information

This cordless telephone is a radio transmitter and receiver. It has been designed not to exceed the recommended limits for exposure to radio-frequency (RF) energy, set by the U.S. Federal Communications Commission and Industry Canada/Health Canada. The measured SAR levels from this unit are a factor of 15 below the recommended limit of 1.6W/kg, averaged over 1 gram of tissue.

### Size and weight

Size: 143 x 48 x 26 mm

Weight: 121 g including battery  $\pm$  10 g

### Capacity

Active talking time 10 hours

Stand-by time 90 hours

