

GDK-162/100/FPII/20W & LDK-24/100/300/300E WOTS

Wireless Terminal User Guide

MODEL : GDC-345H (GAP)



REVISED HISTORY

DATE	ISSUE	CONTENTS OF CHANGES	REMARK
2002.10	ISSUE 1.0	- . Initial Release	
2002.11	ISSUE 1.1	- . Added the notice of Ear-Mic.	
2003.03	ISSUE 2.0	- . Added the LDK-24 feature	
2003.09	ISSUE 2.1	- . Added the LDK-300E feature	

* This manual for GDC-345H GAP wireless terminal is applicable for printed date and can be modified or updated due to production enhancement. If there is any question, please inquire of UADS (Unit Application Detail Specification) of sale area about questions.

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1. GENERAL DESCRIPTION

1.1 Purpose

The purpose of this manual is to give a user the right way to use a GDC-345H wireless terminal and its accessories. This manual lists the matters that a user has to avoid for right use and explains the features of the wireless terminal as a terminal of GDK-162/100/FPII/20W & LDK-24/100/300/300E systems. The features which are explained in this manual describe the user-interface for GDK & LDK series DECT key system of local sale. Also it illustrates the specifications of the terminal and its accessories. The wireless terminal, GDC-345H (GAP), is designed and manufactured for interface with GDK & LDK series DECT key system and LGE doesn't guarantee inter-operability between any other GAP system and GDC-345H (GAP). *Please, refer to 'GDK & LDK System Installation Manual' about applicable peripheral items.*

1.2 Contents

The wireless terminal tool kit contains the following items. Please be sure all of the listed items are contained.

- Wireless Terminal User Guide : 1
- GDC-345H, Wireless Terminal : 1
- 345H-SSC, Single-slot Charger : 1
- Standard Rechargeable Battery : 2 Cell
- 330-HAP, AC/DC Adapter : 1
- Belt Clip : 1
- EAR/MIC Phone : Optional
- A leather case : Optional



Note) The above figure is illustrative purpose only. The actual products may look different.

1.3 Preparation

- Below table shows the maximum cell number, maximum registrable terminal number, and maximum simultaneous wireless call number in different configurations of GDK-162/100/FP11/20W & LDK-24/100/300/300E system and the applicable S/W version of GDC-345H handset. Please note that only one(1) WTIB(with WTIU) board can be installed in GDK-162/100/FP11/20W system, one(1) WTIB board can be installed in LDK-24 system, two(2) WTIB(with WTIU) boards can be installed in LDK-100 system and three(3) WTIB(with WTIU) board can be installed in LDK-300/300E system. (The WTIU board is not prepared in the GDK-20W system.)

System Name \ Items	1. Board Name	2. Max. Cell Number (Base Station Num.)	3. Channels/ Cell	4. Registrable Max. Terminal Number	5. Max. Simultaneous Wireless Call	6. Applicable SW version (GDC-345H)
GDK-162	WTIB	3	5	8~96 by step 8	15	All version
	With WTIU	6	5	8~96 by step 8	30	
GDK-100	WTIB	4	5	8~64 by step 8	16	All version
	With WTIU	8	5	8~64 by step 8	32	
GDK-FP11	WTIB	4	5	8~32 by step 8	16	All version
	With WTIU	8	5	8~32 by step 8	16	
GDK-20W	MBU	1	4	20	4	All version
	WTIB	3	4	20	12	
LDK-24	WTIB	3	2	12	6	All version
LDK-100	WTIB (MAX. 2)	4 (x 2)	5	8~80 by step 8	32	All version
	With WTIU (MAX. 2)	8 (x 2)	5	8~80 by step 8	64	
LDK-300/300E	WTIB (MAX. 3)	4 (x 3)	5	8~192 by step 8	48	All version
	With WTIU (MAX. 3)	8 (x 3)	5	8~192 by step 8	96	

- The wireless terminal should be subscribed before using it. (Please refer to '6. Installation of Wireless Terminal')
- A call may be failed even when free channels exist due to unexpected changes of radio environment.
- When all channels are occupied, no more call can be made. In this case, a user should wait until a channel becomes free.
- The S/W of a wireless terminal can be updated by the manufacturer.
- The working area of your hand-held type wireless terminal is limited to the domain of the coverage area of a wireless system, which may be adjusted to a premise of an organization, an office, or a company. Using a terminal outside of this area will bring unsatisfied results.
- A hand-held type wireless terminal is not specified as intrinsically safe. So do not use it in hazardous area or intent.
- If a user doesn't use matched configuration, the normal operation can't be guaranteed.
- ***If you are out from the range of a base station for a long time with your handset power-on, it may fail to find the base station again when you are in the range. In that case, refresh the power of the handset or press "[MENU key] + [3] + [OK key]"***

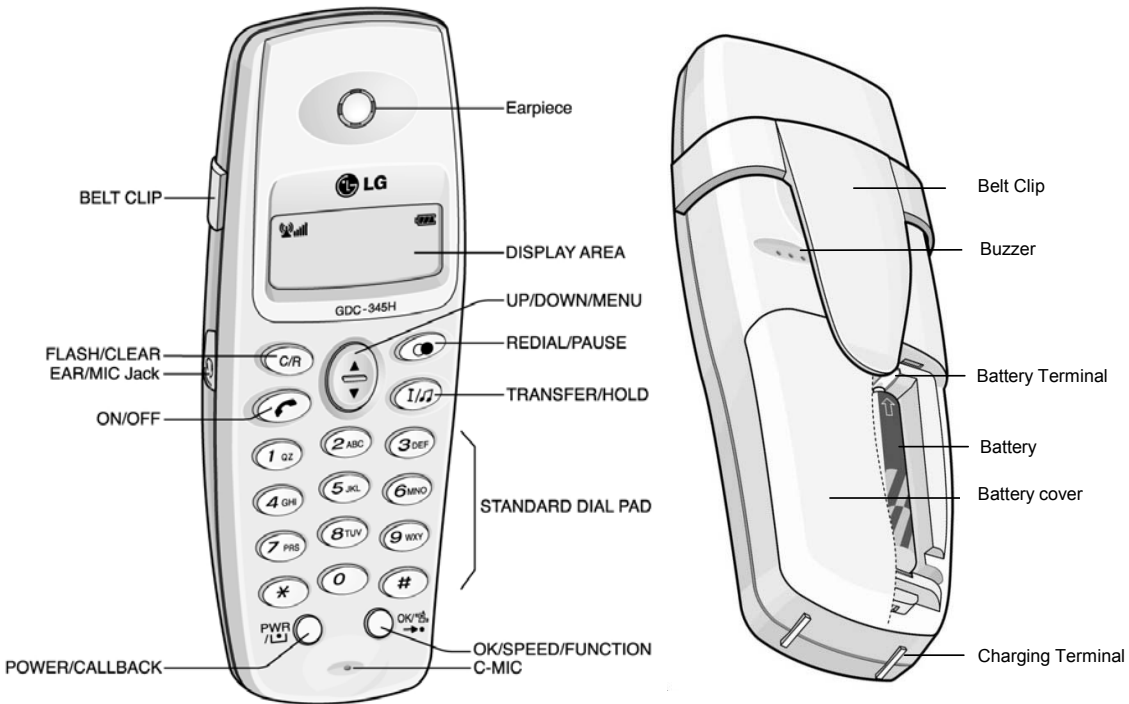
2. WIRELESS TERMINAL TOOL KIT

2.1 Wireless Terminal (GDC-345H)

The GDC-345H is a DECT business wireless terminal that communicates with a GDK-162/100/FPII/20W & LDK-24/100/300/300E WOTS (Wireless Office Telephone System) via radio channels.

A cell is an area effected by the antenna of a fixed part of the system. A Cell of the same wireless system is overlapped with other cells. The coverage area of a wireless system consists of these cells. A user can make calls within this area. As a user moves, the effecting cell of the terminal will be switched over.

□ Hand-held Type Wireless Terminal : GDC-345H

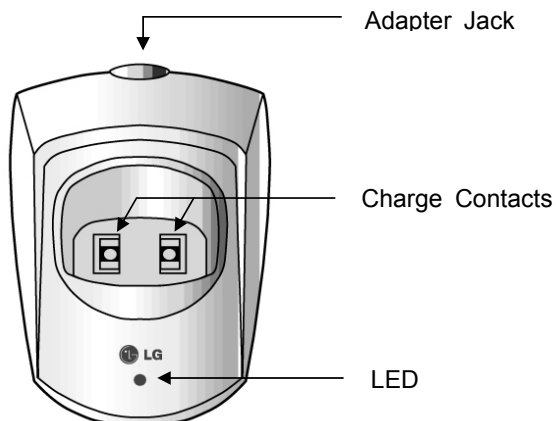


The hand-held type wireless terminal (GDC-345H) is designed for ease and portable use.

Note) The above and the following figures are just for illustrative purposes only. An actual product may look different.

2.2 Single-slot Charger (345H-SSC)

A 345H-SSC is used as a charger of GDC-345H. It uses an AC 230V/50Hz adapter or a AC 220V/110V ~ 50/60Hz adapter, 330-HAP.



Single-slot Charger (345H-SSC)

The LED on the charger indicates that charging is in progress.

The battery is Nickel Metal Hydride(NiMH) type. To maintain the initial duration of the battery, charge a fully discharged battery.


2.3 Battery (1.2V rechargeable NiMH AAA Size 2 cell)

A standard battery lasts 9 hours in talking mode and 50 hours in standby mode.

According to the charged state, temperature, environment and habits of using, or radio environment of using place, the duration of a battery will be varied. If a user uses a battery according to the described maintenance(in the next chapter), a full-charged battery guarantees the duration as below table. Unless a user follows the maintenance guideline, the duration of a fully charged battery is not guaranteed.

Bat. Type	Rechargeable	Full Charging Time
Talking Mode	9 hrs	10 ~ 12 hrs
Standby Mode	50 hrs	10 ~ 12 hrs

< Battery duration and charging time >

When a battery is almost consumed during a call or in an idle state (under $2.3V \pm 0.1V$), warning tone will be heard once in every 20 second, and a low-battery icon() on the upper right corner of the LCD will be blinking.

2.4 Adapter (330-HAP)

330-HAP adapter is used for the charger, 340-SSC. There are two types of adapter. It is dependent on country adaptation.

Type - I

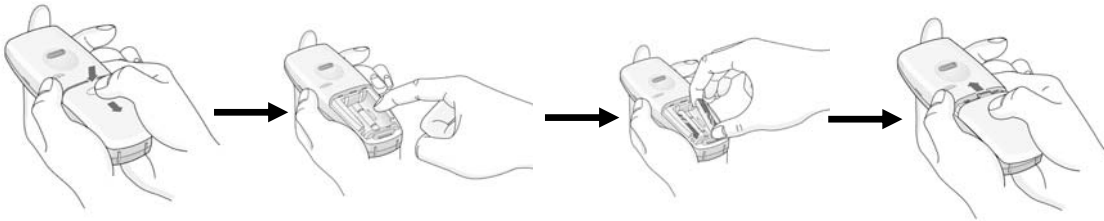
- Input : Only AC 230V/50Hz 50mA
- Output : DC12V 200mA 2.4VA

Type - II

- Input : AC 220V or 110V 50/60Hz
- Output : DC 12V 200mA

2.5 Installation(Battery and Belt Clip)

- How to disassemble the battery cover and insert the battery.



Note :

1. Before the inserting the battery, check the convex pictogram(○,+ ○,-)compartment in the base and connect the dry cell according to the convex pictogram.
2. Push the dry cell until you hear “clicks” sound.

- How to put the belt clip into Handset.



Note :

1. Put belt clip into Handset's one side slot.
2. Push belt clip into the other side slot until it “clicks” sound.

3. MAINTENANCE

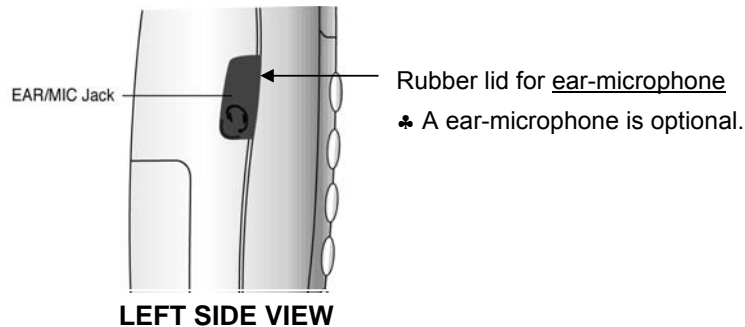
This chapter mentions what a user has to do and should avoid in order that a user may treat the wireless terminal and its accessories to keep them in good condition.

The user is responsible for the result caused by violating the below warnings.

3.1 Wireless Terminal (GDC-345H)

A user should keep the followings to use wireless terminal GDC-345H without any harm to the user or to the product.

- Do not expose it to direct sunlight for long period. For operational temperature range, refer to the section of '**8. Specifications**'.
- Spilling or being wet may result impossible condition to be repaired.
- Do not remove the rubber lid attached on the left side of GDC-345H. The hole on the side part is used for ear-microphone and is covered with a rubber lid.
- Do not insert any external substance except ear-microphone for GDC-345H in the hole. Inserting anything except for ear-microphone provided by LGE may cause severe damage to the terminal.



- Do not try to disassemble it. Disassembling the terminal may damage it electronically.
- Do not try to alter the external or internal. Trying to alter the terminal may damage severely.
- Clean a hand-held type wireless terminal only with a soft and dry cloth. Using soap or any other cleansing materials may damage it.
- Avoid shocks and keep in safe place when it is not used.
- Keep it away from any flammable thing or excessive heat. For operational temperature range, refer to the section of '**8. Specifications**'.
- When not used for long period, remove a battery from it and keep separately.
- Before initial use, charge fully the battery.

Warning

The ear cap region of this telephone may attract and retain small metal objects.

3.2 Charger (345H-SSC)

For right use of 345H-SSC, keep the followings:

- Do not use it in high temperature or in high humidity area. Spilling or being wet may result impossible condition to be repaired.
- Do not try to disassemble or alter the external or internal.
- Avoid shocks and keep in safe place when it is not used.
- Keep it away from any flammable thing or excessive heat.
- Use only designated adapter, 330-HAP (230V-50Hz or 220V/110V-50/60Hz).
- Don't harm LED, contacting parts to a battery or jointing part to an adapter.
- Don't make a short circuit on contacts.

3.3 Battery (1.2V rechargeable NiMH AAA Size 2 cell)

For right use and keep in good condition of the battery, keep the followings:

- Do not use it in high temperature or high humidity area. Spilling or being wet may result impossible condition to be repaired.
- Charge and keep in room temperature. High temperature or low temperature prevents a battery from full charging. Even enough charging time does not guarantee good using duration.
- Avoid shocks and keep in safe place when it is not used. Shocks or dropping may cause damage or decreasing duration.
- Keep it away from any flammable thing, and do not place it in hot place such as in a car in summer.
- Keep it away from kids.
- The battery contains environmental pollutants. If damaged, return it to a collecting point.
- Duration of using a battery is decreased gradually, and purchase a new one when the duration becomes half comparing with initial use.
- **Once a month, charge fully a discharged battery with the charger (340-SSC). It will enhance the decreased duration of the battery.**

! Notice

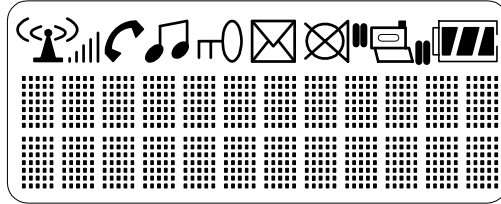
1. Please use only the rechargeable AAA size battery that is recommended.
2. If you use non-chargeable battery, higher voltage may damage phone seriously.
3. Do not use disposable battery like Alkaline Battery. (It may cause battery leakage)
4. This rechargeable battery may be dischargeable.
In case the rechargeable battery discharge, please use it after you charge the battery.

4. USER INTERFACE

This chapter explains the function of buttons, state of the LCD, displayed message on the LCD and the features as the wireless terminal of GDK-162/100/FPII/20W & LDK-24/100/300/300E system.



4.1 LCD Display









The LCD of GDC-345H GAP has eight icons and 2 x 12 Dot matrix. The LCD shows different wireless states and displays visual feedback for the actions performed by user.




- 1) The display provides a user with visual feedback for all the actions performed by user.
- 2) The displayed status icons and messages are as the followings;

4.1.1 ANTENNA Icon & RSSI Icon


- 1)  : Antenna Icon
- 2)  : RSSI Icon

Icon	Description
	 <p>Blinking : When the icon is blinking, the terminal is still not locked to a base station and the location registration is not finished either.</p>
	 <p>Steady : When it stops blinking, the terminal is locked to a base station but the location registration is not finished.</p>
	 <p>Location registration is finished. Even though user may make a call or receive a call, may hear very severe noise. (Below -86dBm)</p>
	 <p>Even though user may make a call or receive a call, may hear severe noise. (-85dBm~-80dBm)</p>
	 <p>User may make a call or receive a call and may hear some noise. (-79dBm~-75dBm)</p>
	 <p>User may make a call or receive a call and the call quality is normal. (-74dBm~-65dBm)</p>
	 <p>User may make a call or receive a call and the call quality is good. (Upper -64dBm)</p>


4.1.2 PHONE Icon

Icon	Description
	<ul style="list-style-type: none"> - Blinking : Indicates that a call connection is being tried. - Steady : Indicates that a traffic channel is established.


4.1.3 KEY LOCK Icon

Icon	Description
	Indicates that the phone is set to lock mode.


4.1.4 MESSAGE Icon

Icon	Description
	<p>The icon indicates that the system has at least one new message for the wireless terminal. The message information is updated every 3 minute. The disconnection with the subscribed system makes impossible to update the message information and the icon is disappeared. And if the wireless terminal is connected with the system, this icon is displayed again on the LCD. If the station message is left, the reserved call is made by using CALLBACK button and this icon will be disappeared after the call. In case of voice message through DVU, press FLASH button to delete a message after checking the message. When all messages are deleted, the message icon will be disappeared. Otherwise, this icon will be still remained. Applicable message: DVU message, CLI message, Station message</p>


4.1.5 MUTE Icon

Icon	Description
	Indicates that during a call, you can prevent the other party from hearing any background noise or conversations, by pressing the DOWN button longer than 1 second.


4.1.6 BATTERY Icon

Icon	Description
	Indicates charge level of the battery.

4.1.7 TONE MODE Icon

Icon	Description
	Indicates that the phone is pulse tone mode.

4.1.8 SILENT MODE/VIBRATOR MODE Icon

Icon	Description
	Indicates that the phone mode is silent mode or vibrator mode.

4.2 Buttons & Functions

The wireless terminal has 10 digit buttons and 10 feature buttons.





1) Digit Buttons






0, 1, 2, 3, 4, 5, 6, 7, 8, 9

2) Feature Buttons

*****, **#**, **[ON/OFF]**, **[FLASH/CLEAR]**, **[REDIAL/PAUSE]**, **[OK/SPEED/FUNCTION]**,
[TRANSFER/INTERCOM/INTERNAL/HOLD], **[PWR/CALLBACK]**,
[UP/MENU] , **[DOWN/MENU]**

The function of button is as follows;

Button Icon	Function	Description
	[ON/OFF]	- Try to make/release call
	[FLASH/CLEAR]	- Talking Mode : Register recall - Flash a call and retry next call - When using pre-dial : <ul style="list-style-type: none"> ■ Pressing longer than 1 second : All digits are cleared ■ Pressing shorter than 1 second : 1 digit backspace ■ When using local functional operation : Function cancel (It should be pressed longer than 1 second)
	[REDIAL/PAUSE]	- Pressing shorter than 1 second <ul style="list-style-type: none"> ■ Pre-dial : Redial number saved in handset. ■ Post-dial : Redial number saved in system. - Pressing longer than 1 second Pause(pre-dial, post-dial and during CO-line call).
	[OK/SPEED/FUNCTION]	- Menu Mode : <ul style="list-style-type: none"> ■ Pressing shorter than 1 second : Select / Finish a local function(OK). - Idle Mode : <ul style="list-style-type: none"> ■ Pressing longer than 1 second : Enter the silent mode. - Post-Dial : <ul style="list-style-type: none"> ■ Pressing shorter than 1 second : System speed dial(SPEED). ■ Pressing longer than 1 second : Start / Finish a system function(FUNCTION).

Button Icon	Function	Description
	[TRANSFER/ INTERCOM/ INTERNAL/ HOLD]	- Talking Mode : <ul style="list-style-type: none"> ■ Pressing shorter than 1 second : Transfer a call to the other station(TRANS). ■ Pressing longer than 1 second : Hold a call / release a holding call(HOLD). - In an idle state : <ul style="list-style-type: none"> ■ Home DECT : Internal call ■ Key-telephone DECT : Trying to make a CO line call or an intercom call
	[POWER/ CALL BACK]	- Power-on - Pressing longer than 1 second : Power Off - Pressing shorter than 1 second : Leave a call back or a message
	[UP/DOWN/ MENU]	- When using local functional operation : Start a local function, upper / lower scroll - Talking Mode : Up / Down the level of Rx volume, Call by name, CLIP - Navigate and select among function items in a menu or submenu
		- Go to Pulse (Pressing longer than 1 second) - '# Display (Pressing shorter than 1 second)
		- Talking Mode (Only when the Camp-On function is supported by GDK & LDK series) : Camp-On - Standby Mode : <ul style="list-style-type: none"> ■ '*' is displayed (Pressing shorter than 1 second) ■ Go to DTMF (Pressing longer than 1 second)
0~9		- Standard dial button

When pressing




- any digit buttons, key tone will be heard.
- any feature buttons, key tone will be heard.
- **[PWR]** to turn off the wireless terminal, keep pressing more than 3 seconds until a tone is heard.

Note :

The above table is available only for the wireless terminal which is subscribed to GDK & LDK series system. Therefore, LGE may not guarantee normal key functions as described on the above table when a user operates the wireless terminal which is subscribed to the other system.


4.3 Tone

The wireless terminal supports many kinds of indication tones. These tones sound through the buzzer installed in the wireless terminal. The situation which tone is generated is as the followings;


- Keypad Tone
When pressing a key, the tone sounds.
- Warning Tone and Conformation Tone
In many situations, these tones are provided as indication or warning to a user according to each situation.
 - ▶ *Error indication tone*
When a user does invalid operation, it is generated. There is no message displayed on the LCD.
 - ▶ *Low battery warning tone*
If battery voltage level is decreased to less than $2.3V \pm 0.1$, it is generated. A block in a low battery icon on the LCD is blinking in every second and this tone is generated once in every 20 second until battery voltage level reaches over $2.3V \pm 0.1$ by recharging the battery. When a user puts the wireless terminal on the charger provided by LGE, this tone and the blinking low battery icon are disappeared. If battery voltage level is under $2.2V \pm 0.1V$, power will be turned off automatically to protect circuits of the wireless terminal without low battery warning tone as soon as pressing the power button to turn on (It is called by "Auto-power-off" function). It should be recharged.
 - ▶ *Out of range warning tone*
When a user is about to get out of a coverage of the subscribed system, "OUT RANGE" message will be shown shortly on the LCD with warning tone.
 - ▶ *Call-connection confirmation tone*
When an wireless channel between the wireless terminal and the subscribed system is established, it is generated. Once pressing  button, the wireless terminal tries to get a wireless channel. At this time, **Phone** icon will be blinking. When a wireless channel is established, this tone is heard and **phone** icon will be shown steadily.
 - ▶ *Power-off conformation tone*
When the wireless terminal is turned off, it is generated.
- Ring Tone
When a wireless terminal gets an incoming call, it is generated. A user can make the volume level up and down from level 1 to level 7 in an idle state. The incoming call ring rhythm (CO line call and intercom call, separately) can be selected by a user among 9 ring rhythms. The default ring rhythm is selected to normal ring rhythm. In the state that vibrator function is enabled, when a call is reached to the wireless terminal, ring tone can't be heard but a user recognizes the phone's ringing by phone vibration.

4.4 Message Display

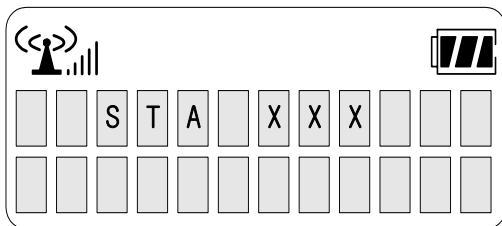
Message	Description	Display Duration
STA xxx	Station number	Standby Mode
INVALID	Indicate not available operation	3 seconds
NO CHANNEL	There is no channel for connection	3 seconds
CALL FAIL	A call try is failed	3 seconds
KEY LOCK	Indicate key locked state	Until restored to key-unlock state
LN XX	Connected CO line number	During holding CO line
00:00	Call time	While maintaining a call
CALL FROM STA xxx	When a call is received from intercom, it indicates a call paging from station xxx	During ringing and until cutting off a Call
CALL TO STA xxx	When a call is made to intercom, it indicates a call paging to station xxx	During ringing and until cutting off a Call
LN XX RINGING	When received from CO line, it indicates a paging from CO line x	During ringing

※ The parts filled with  will be explained in detail in Appendix C.

4.5 Call Ready State

- 1) When a wireless terminal is received a signal from a base station and synchronized with dummy bearer(Sync.), RSSI(Radio Signal Strength Indicator) icon() is displayed.
- 2) 'STA xxx' will be displayed if it is subscribed. The RSSI icon stops blinking when it is locked and that means the terminal is ready to make or receive a call.
- 3) If the RSSI icon is blinking, it indicates that a wireless terminal is still trying to synchronize with the base station of the GDK-162/100/FPII/20W & LDK-24/100/300/300E system that it is subscribed to.

Display Area
 GDC-345H




5. TELEPHONE FEATURES

5.1 Basic Features

A subscribed wireless terminal to a GDK-162/100/FPII/20W & LDK-24/100/300/300E system can use various telephone features.

5.1.1 Power ON/OFF

When pressing **POWER**() button, the power is turned on and the wireless terminal goes to an idle state.

The following describes the sequence of power-on;

- ① Press **POWER** button.
- ② Initialize S/W and H/W variables.
- ③ Check for station number if subscribed, and display station number : "STA xxx", else display "UNREGISTERED" Only if subscribed to GDK & LDK series, the above message is displayed on the LCD.
- ④ Search for system to which it is subscribed and try to do location registration while blinking Antenna Icon and RSSI level.
- ⑤ If Antenna Icon and RSSI level stop blinking, it means all procedures for initial setup are completed. And you can make or received a call.

To turn off the wireless terminal, press **POWER**() button for longer than 3 seconds. Confirmation tone is heard. And then release **POWER**() button.

5.1.2 Call Function


There are two kinds of calls, a CO line call and an intercom call. The details are described in '**5.2 Key System Features**' and '**5.3 DECT Features**'. Please refer to '*Digital Key Telephone System Programming Manual*' about detail functions and additional functions related to key system.

5.2 Key System Features




5.2.1 Call Service Function

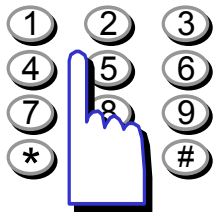
The following features are available only for GDK & LDK series system. So these functions may not be operated properly with any other system.





Placing an Outside Call

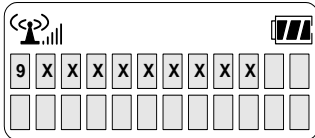
TALK ON/OFF () button is used to make a call or receive a call. To make a call can be done by either pre-dialing or post-dialing.


1) Pre Dial

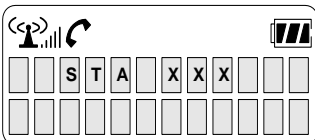
- GDK-162/100/FPII, LDK-24/100
 CO Line Access Code (9, 8+XX or 88+XX) → Phone Number →  → Connection
- GDK-20W
 CO Line Access Code (9, 8+X or 88+X) → Phone Number →  → Connection
- LDK-300/300E
 CO Line Access Code (9, 8+XX or 88+XXX) → Phone Number →  → Connection




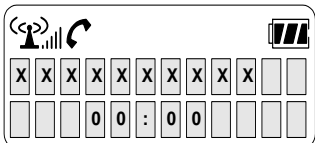
You may dial telephone number in an idle state before pressing  button (up to 24 digits). Since it is displayed only 12 digits per line on the LCD. If you dial a wrong digit, a user can erase last 1 digit by pressing  once and if you want to erase all digit dialed, press  for longer than 1 seconds. If you want to insert dialing pause among dial numbers, press  button for longer than 1 second. Then "P" is displayed on the LCD.



- Dial phone number.
- Press .






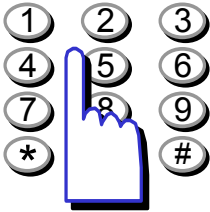
- Phone() icon is blinking on the LCD .




- The LCD message is displayed as the left figure and connection tone is heard when connection is completed.

2) Post Dial

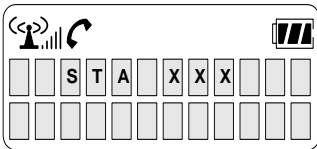
- GDK-160/100/FP11, LDK-24/100
 → CO Line Access Code (9, 8+XX or 88+XX) → Phone number → Connection ;
 (XX means CO line number)
- GDK-20W
 → CO Line Access Code (9, 8+X or 88+X) → Phone number → Connection ;
 (X means CO line number)
- LDK-300/300E
 → CO Line Access Code (9,8+XX or 88+XXX) → Phone number → Connection ;
 (XX means CO Group Number, XXX means CO line number)





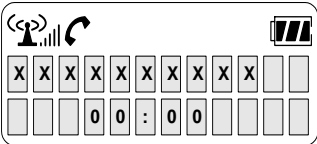
You may dial telephone number after pressing  button. When pressing CO line access code (9, 8 + XX, or 88 + XX), CO line dial tone is heard. Every time pressing each button, it is displayed on the LCD. If you dial a number late, "DIALING TOO LATE" message is displayed on the LCD. It is displayed up to 10 digits.

Note :

In case of GDK-20W and LDK-24/100/300/300E system, if handset was registered by 'TYPE 3', it is displayed 12 digits per line on the LCD (This feature is available when MPB version of LDK-100/300/300E is 1.0Ba above and when MPB version of GDK-20W is 3.0Aa above. In LDK-24 system, this feature is available without version). Please refer to '6.2 Subscription' for details.





- Press  button. Connection tone is heard and **phone** icon is displayed on the LCD.



- Dial CO line access code.
 - GDK-162/100/FP11, LDK-24/100 (9, 8 + XX, or 88 + XX)
 - GDK-20W (9,8 + X, or 88 + X)
 - LDK-300/300E (9,8 + XX, or 88 + XXX)
- Dial the desired phone number.

3) Call Release

To release a call, press  button. The **phone** icon will be disappeared and the wireless terminal will go to an idle state.

Formatert

4) Assign CO Line/CO Line Group


Available CO lines can be grouped and the accessible CO line groups can be assigned to a station by Admin programming (For detail programming, refer to "CO LINE GROUPS" and "CO LINE ACCESS" of "Digital Key Telephone System Programming Manual"). All available CO lines are assigned to Group 01 by default.

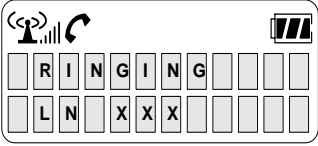
Accessing a CO line is done in three ways as above; (9, 8+CO line group # or 88+CO line #) And they are;

- 9 (CO line Access Code) : Connect an available CO line of the assigned CO line group to the station. CO line selecting method is programmable by Admin programming.
- 8 + CO line group # : Connect an available CO line of the CO line group. The CO line group should be assigned to the station before by Admin programming. CO line selecting method is programmable by Admin programming.

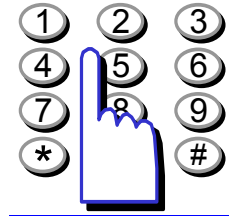
- 88+CO line # : Connect the CO line directly. The CO line should be allowed to the station before by Admin programming.


Receiving an Incoming Call

Incoming CO ring →  → Connection





1. Incoming CO ring is heard and a message is displayed on the LCD.
 Notes: If an Ear-Mic is attached to a GDC-345H, it can receive an incoming call by pressing a button on the Ear-Mic while a ring sounds.



- Press  button and answer the call.
- If pressing **UP**(▲), **DOWN**(▼) button during conversation, the receiving voice level is controlled.




Formatert
 Formatert


To hang up the call;

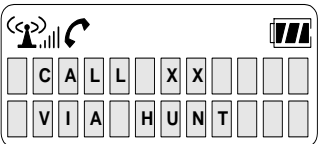
When conversation is over, press  button again to release the call. Then the **phone**() icon will be disappeared and the call will be cut off.
 Notes: When you release a call, you can do it by pressing a button on Ear-Mic.

Formatert

Making an Intercom Group Call

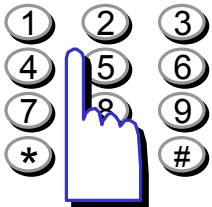
- 1) **Pre-Dial** : Intercom group number →  → Connection
 - Dial the intercom group number (ex. GDK-162: 620~649).
 - Press  button.
 - Connection tone is heard and **phone**() icon is displayed on the LCD.

2) **Post-Dial** :  → Intercom group number → Connection






- Press  button.

Connection tone is heard and **phone**() icon is displayed on the LCD.




- Dial the intercom group number (GDK-162:620~649,GDK-100:620~634, GDK-FPII:620~627,GDK-20W:61~64, LDK-24: 620~629, LDK-100: 620~634 LDK-300/300E: 620~667) .



To transfer a CO line;

- Press **TRANS**() button shorter than 1 second.
- Dial the intercom group number.
- Press  button or when the called extension answers, inform the transfer and press  button to complete the transfer.

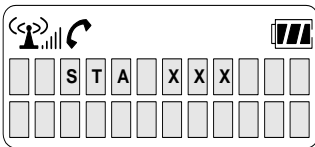
Caution: Intercom line transfer isn't supported by GDK-162/100/FP11/20W WOTS system.
But it is supported by LDK-24/100/300/300E system.

Making an Intercom Call

1) **Pre-Dial** : Intercom number →  → Connection

- Dial the intercom number.
- Press  button.
- Connection tone is heard and **phone**() icon is displayed on the LCD.

2) **Post-Dial** :  → Intercom number → Connection



- Press  button.

Connection tone is heard and **phone**() icon is displayed on the LCD.




- Dial intercom number.

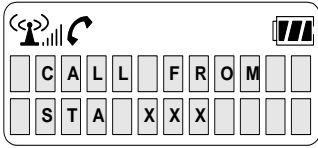
According to the ICM answer mode of a called station (in case of a key station), different tone will be heard in the wireless terminal.

1. **TN(Tone) mode** : Ring back tone. Wait until the called station answers.
2. **HF(Hands-free) / PV(Privacy) mode** : 3 bursts of tone. Talk after the tone.

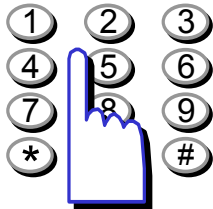
Slettet: ¶


Receiving an Intercom Call

Intercom ringing →  → talk



2. Intercom ring is heard and a message is displayed on the LCD.




- Press  button and answer the call.

Pressing **UP**(▲), **DOWN**(▼) during conversation, the receiving voice level is controlled.

Formatert
 Formatert



To hang up the call;

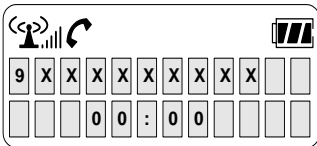
When a talk is over, press  button again. Then the **phone**(☎) icon will be disappeared and the call will be cut off.

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Call Transfer

This function is to transfer a received call to another user.

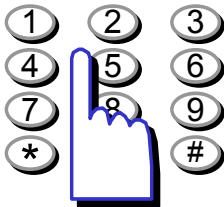
Talk →  (Press shorter than 1 second) → Intercom number → 



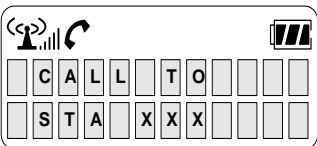
While connected to a CO call (**not intercom call**),

- Press **TRANS**() button shorter than 1 second and then the call is put on hold state

Slettet: ¶
 ¶



- Dial intercom station number
 (ex.GDK-162: 100~291, GDK-100:100~235,
 GDK-FP11: 100~177,GDK-20W: 100~133,
 LDK-24: 10~41, LDK-100: 100~227
 LDK-300: 100~399, LDK-300E: 1000~1599)




At this point, a user can make either a screened or unscreened the transfer.

Caution: Intercom line transfer isn't supported by GDK-162/100/FP11/20W WOTS system.
 But, it is supported by LDK-24/100/300/300E system.

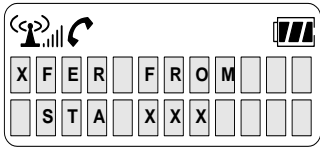
Screened Transfer



When the called station answers, inform the transfer.

- Press  button to complete the transfer.

Unscreened Transfer

When the called station begins to ring,



- Press  button to complete the transfer after ring back tone is heard. Then, a message is displayed on the LCD of the called station. If the call is not answered within 30 seconds, recall ring is ringing at both stations. At this time, press  button then a user will be connected with the transferred call again.

Answering Screened Transfer

A user will hear intercom ring.


- Answer intercom call and receive transfer notice.
 If the transferring party hangs up, the outside call will be connected.

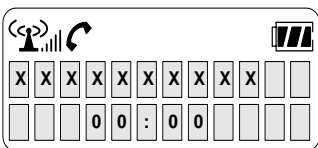
Executive/Secretary Transfer

- If a station is designated as an Executive station and the station is busy or in DND(Do Not Disturb), all calls will go to its Secretary station.
 - If a station is designated as a Secretary station, it may signal its Executive station which is in DND by using the Call Wait feature.
- * This feature is not available in GDK-20W.


Placing a CO Call on Hold

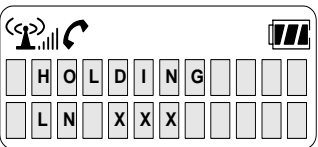
While you use a wireless terminal through CO line, you can use this function when you want to let the outside caller wait for a moment.

Talk →  (Press longer than 1second)



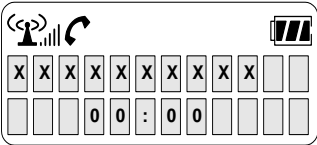
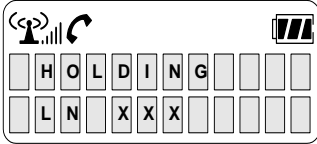
While connected to a CO call (*not intercom call*),


- Press **HOLD** () button longer than 1 second for exclusive hold. (Dial tone will be heard)



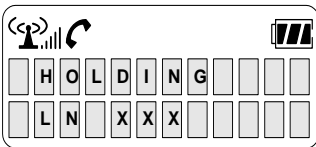
A message is displayed on the LCD as shown, and the hold music is heard to the outside caller.
 You have two kinds of choice, one is to retrieve a call and the other is to make another call.



1) To retrieve the call,



- Press **HOLD** () button longer than 1 second, then the held outside call will be connected.

2) To make another call,

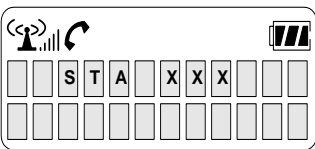




- Press  button if you want to make another intercom or CO call.
- The wireless terminal goes to an idle state.
- Press  button again to make a call.

Caution: Intercom line hold isn't supported by GDK-162/100/FP11/20W WOTS system.
 But, it is supported by LDK-24/100/300/300E system.

Flash

During conversation (through CO line or intercom), releasing current call and entering dialing mode can be done at once by Flash. The FLASH button is also used to transfer a CO line call through a PABX.




3. If you are talking with intercom line, press  to release a call. Then, dial tone will be heard and you may make another call or do the other operation, for example, programming using system function and so on.
4. If you are talking with CO line, press  button to release a call. Then, dial tone will be heard and you may make another CO call.
5. If you want to transfer a CO call to a PABX, dial an internal station number of a PABX. When ring back tone is heard, hang up the call for unscreened transfer, or inform the transfer when the called party answers, then hang up the call for screened transfer.

Call Park

A user can park using CO line to CO line parking location.

Call Park

While connected to an outside call;

- Press **TRANS**() button shorter than 1 second.
- Dial a parking location.
- The CO line being used is on hold and the wireless terminal goes to an idle state.

Retrieving a parked call

- Press  button.
- Dial the parked location.

Parking Location Number


SYSTEM	PARKING LOCATION NUMBER
GDK-162	601~619
GDK-100	601~610
GDK-FPII	601~605
GDK-20W	601~606
LDK-24	601~608
LDK-100	601~610
LDK-300/300E	601~619

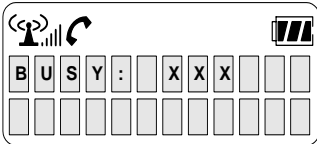
5.2.2 Key System Support Function


Call Back

When you dial to a station that is busy or in DND mode, you can leave a call back indication message up to 5.


Call Back in case of Dialing to a Station in Busy State

- After receiving intercom busy tone, press **CALL BACK**() button.









NOTE: If the busy station earlier goes to an idle state before pressing  button, the called station will have a message from the system. About the message, see the below “Answer a Message Waiting Indication”.

When the busy terminal is idle, a reserved user’s terminal for call back will be ringing.

- Answer the ring by pressing .

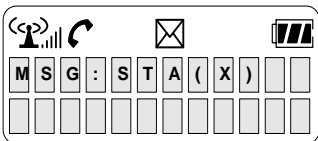
Call Back in case of Dialing to a Station in DND Mode or No Answer



- If you receive intercom busy tone or there is no answer after dialing to a station, press **CALL BACK**() button.
- Then, if DVU is installed in the system, a voice message is heard. Press  button to leave a message. If you want to stop leaving a message, press  button. And if DVU is not installed in the system, only a station message is left in the system for the called station.
- A message icon is displayed in 3 minutes on the LCD of a reserved user’s station for call back.
- If a call back message is displayed on the LCD, press  **ANS**() shorter than 1 second and then press **CALL BACK**() to make a call to a station leaving a message.




Answering a Message Waiting Indication

If a message is displayed on the LCD, it indicates that a message is left to you.

The first left message will be answered at first.



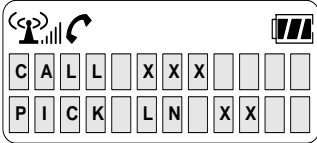
- Press .
- Press **CALL BACK**() button.
- The station that has left a message will be ringing if a station message has left.

- If DVU message has left, the first left DVU message is heard. Press **HOLD** () button longer than 1 second to hear the next DVU message again or press **CALL BACK**() button to hear the same DVU message. After checking a message, if you want to erase the checked message, press **FLASH** () button.

Pick-up

This function is to pick up a call instead of another subscriber who is called. It can be used after programming at the attendant station.

Group Call Pick-up

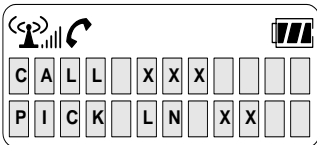


When you hear an unattended phone ring,

- Press button.
 - Press .
- (LDK-24/100/300/300E : Press)

- Caution:**
- 1) A station should be in the same pick-up group with the ringing station.
 - 2) This feature should be programmed at the Admin. station before using.
 (See the pick-up function programming method at the GDK-162/100/FPII & LDK-24/100/300/300E WOTS programming manual)
 - 3) All stations are in the same pick-up group in case of GDK-20W system.

Directed Call Pick-up

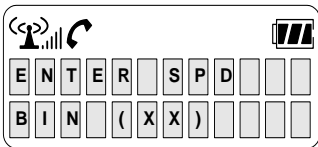


You hear intercom or transferred outside line ring at a particular station. (This feature is not available in GDK-20W.)

- Press button.
- Press and the station number of the ringing station.
- It will be connected to the calling party.

Speed Dial

Storing Speed Dial Numbers



Numbers stored ally in a station speed bin. One speed dial number can be dialed

- Press button.
- Press **FUNCTION** () button longer than 1 second.
- Press **SPEED** button () button shorter than 1second.
- Dial speed bin number. (GDK-162/100/FPII: 00~19, GDK-20W: 01~20, LDK-24/100/300/300E: 000~099)

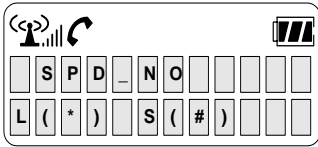
(Only available speed bin is displayed on the LCD. And only one speed bin number is displayed at every time using this function.)

- Dial a phone number to be stored.
- Press **FUNCTION** () button longer than 1 second.
- Enter the dial name.
 (Refer to “**PROGRAMMING A NAME INTO DISPLAY**”)
- Press **FUNCTION** () button longer than 1 second.
- Press button.
- You can store speed dials by repeating the above procedure.

STOP!

- ☑ If all speed bins are stored, speed bin number is displayed as '000' on the LCD.
- ☑ You can newly edit speed bin that is already used.

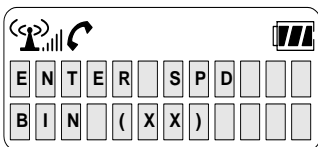
☐ **Using Station Speed Bin Numbers**



- Press button.
 - Press **SPEED** () button shorter than 1 second.
 - Dial speed bin number(GDK-162/100/FPII: 00~19, GDK-20W: 01~20,LDK-24/100/300/300E: 000~099).
- Caution:** S(#) is not displayed in the GDK-20W.

☐ **Erasing Station Speed Bin Numbers**

- Press button.
- Press **FUNCTION** () button longer than 1 second.
- Press **SPEED** () button shorter than 1 second.



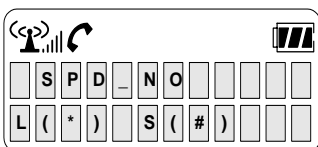
- Dial speed number bin to be erased.
- Press **FUNCTION** () button longer than 1 second. (Confirmation tone will be heard)
- Press button.

☐ **Storing System Speed Bin Numbers**

You can use commonly speed dial numbers stored in the system.

- Storing system speed dial number can be done only at the admin station.
- Available CO line can be assigned at that time storing system speed dial number.

☐ **Using System Speed Numbers**



- Press button.
- Press **SPEED** () button shorter than 1 second.
- Dial speed bin number.
 (GDK-162: 200~999, GDK-100/FPII: 200~399, GDK-20W: 21~99, LDK-24/100: 2000~3499, LDK-300: 2000~4999, LDK-300E: 2000~6999).

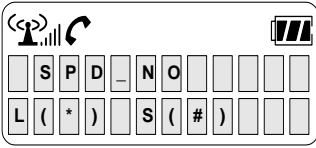
Caution : S(#) is not displayed in the GDK-20W.

STOP!

- ☑ When a user makes a call to some exclusive subscribers or all CO line are reserved, error tone is heard.
- ☑ A speed dial number can be programmed as one that there is no limit about a long distance call. (Refer to “Digital Key Telephone System Installation and Programming Manual”)

Redial

□ To Redial Saved Number,

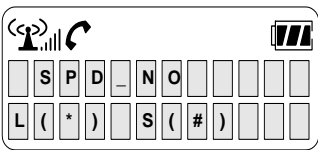


- Press button.
- Press **SPEED** () button shorter than 1 second.
- Press .

Caution: 1) This feature doesn't work at the intercom call.
2) S(#) is not displayed in the GDK-20W.

□ To Redial Last Number,

The last dialed number to **outside lines** is saved automatically.



To redial the number (GDK-162/100/FPII/20W),

- Press button.
- Press **SPEED** () button shorter than 1 second and press .(Or press just **REDIAL**())

To redial the number (LDK-24/100/300/300E),

- Press button.
- Press **SPEED** () button shorter than 1 second and press .(Or press just **REDIAL**())
- Press **UP**(),**DOWN**() to find a phone number. (Max. 10 last dialed number can be stored in the directory)
- To make a call, press **HOLD**() button longer than 1 second when the phone number is displayed.

Caution: 1) This feature doesn't work at the intercom call.
2) S(#) is not displayed in the GDK-20W.

□ Save a Current Number for Later Use (This feature is not available in the GDK-20W)

To save a number dialed for the next use;




- Press **SPEED** button (Press button shorter than 1 second) twice during a call.
- If a used CO line is busy, a redial call is made through available another CO line out of the same group lines.

Caution: This feature doesn't work at the intercom call.


Call Forward

When a user can't receive calls, a user can forward all user's calls to another subscriber's station.





1) GDK-162/100/FP11/20W

- Press  button.
- Press  .
- Press the call forward type:


Call Forward Type	GDK-162/100/FP11	GDK-20W
0	Follow me	
1	Unconditional	Unconditional
2	Busy calls	Busy calls
3	No answer calls	No answer calls
4	Busy/No answer calls	Busy/No answer calls
5	Station off-net	Station off-net
7	DVU(Transferred after 4 seconds - default time)	DVIB(Transferred after a programmed time: Main Menu6-Sub menu2 –Terminal menu1)
8	DVU(Transferred after a programmed time. The admin programming code is "43 + flex24". The range is 4 to 40 seconds.)	
9 (This feature is dependant on system version)	DVU forward for busy (When the terminal is busy, it is forwarded to DVU)	

- Dial station number, or intercom group where calls are to be received. (Confirmation tone will be heard.)
- Press  button.

2) LDK-24/100/300/300E





- Press  button.
- Press   .
- Press the call forward type:

Call Forward Type	Call Forward Condition	Call Forward Destination
0	Follow me	Station No.
1	Unconditional	Station, Intercom Group, or DVU (#)
2	Busy calls	Station, Intercom Group, or DVU (#)
3	No answer calls	Station, Intercom Group, or DVU (#)
4	Busy/No answer calls	Station, Intercom Group, or DVU (#)
5	Station off-net (Unconditional)	Speed Bin
6	Station off-net (No Answer)	Speed Bin
#	Remove	

- Dial station number, intercom group, or # for DVU where calls are to be received. (Confirmation tone will be heard.)
- Press  button.

* In case of DVU forward, recording a greeting message should be preceded.
 * In case of follow-me, dial Authorization Code after station number.














To hear voice message wait on DVIB in GDK-20W,

- Press  button.
- Press **CALL BACK** () (Voice message is heard.)
- Press **HOLD** () button longer than 1 second to hear next voice message.
- Press **FLASH** () to delete current message.

STOP!

- This feature lasts until canceled.
- This feature can't be used in DND mode.(GDK-162/100/FP II & LDK-24/100/300/300E) (DND is reset by call forward in the GDK-20W.)
- This feature can be used by a subscriber that has permission
- This feature should be programmed at the admin station before using.

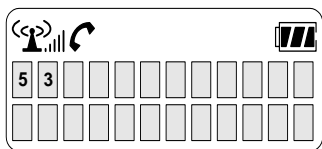
To Cancel Call Forward,

- Press  button.
- Press Call forward code(Confirmation tone will be heard.).
 - . GDK-162/100/FP11 :  .
 - . GDK-20W :   .
 - . LDK-24/100/300/300E :    or    .

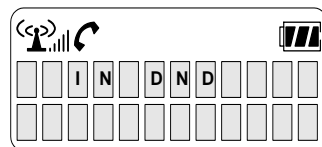
Do Not Disturb (DND)







When a user doesn't want to receive a call, this function can be used.

To Program Do Not Disturb (DND),

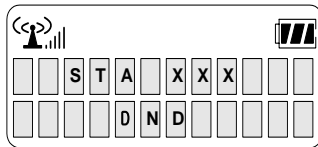


- Talk -

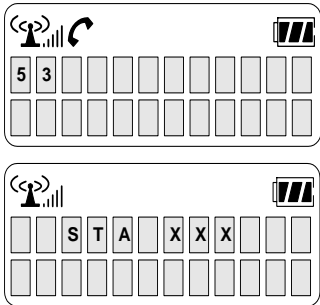


- Press  button.
- Press   (GDK-162/100/FP11/20W) or    (LDK-24/100/300/300E) (Confirmation tone will be heard)

- Idle -



☐ **To Cancel Do Not Disturb (DND),**



- Press button.
- Press or (GDK-162/100/FP11/20W),
 Or or (LDK-24/100/300)
 (Confirmation tone will be heard.)
 (Only 53 is available in GDK-20W)

Authorization Code

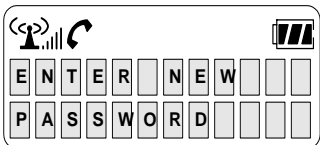
This feature is not available in GDK-20W.

☐ **To Register Access Authorization Code,**

To prevent unauthorized outside call (DISA access or Trunk Access), a user can lock/unlock a station with an access authorization code.

- Press button.
- Press **FUNCTION**() button longer than 1 second and press (GDK-162/100/FP11) or LDK-24/100/300/300E).
- Dial the station's 5-digit Access Authorization code.

The AC code for a terminal should be unique, if the code entered is already used by another terminal, error tone is heard and the message "INVALID" is displayed on the LCD.

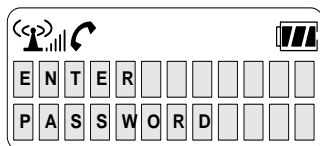


- Press **FUNCTION**() button longer than 1 second.
 (Confirmation tone will be heard.)

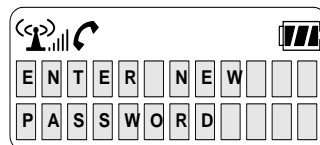
NOTE: An access authorization code should be registered.

☐ **To Change Access Authorization Code,**

- Press button.
- Press **FUNCTION**() button longer than 1 second and press (GDK-162/100/FP11) or (LDK-24/100/300/300E).



- Dial the current Access Authorization code. (Confirmation tone will be heard.)










- Dial a new 5-digit Access Authorization code.
- Press **FUNCTION**() button longer than 1 second.
 (Confirmation tone will be heard.)

NOTE : An access authorization code should be registered.

Temporal COS (Class Of Service) Change








When a user is in a situation that a user can't receive a call, can make a user's station possible to make only intercom call by changing service of class. It prevents another one from making a call. (This feature is not available in GDK-20W)

Blocking Outside Calls

- Press  button.
- Press **FUNCTION** () button longer than 1 second and press   (GDK-162/ 100/FPII) or   (LDK-24/100/300/300E).
- Press **FUNCTION**()button longer than 1 second.(Confirmation tone will be heard.)

NOTE : An access authorization code should be registered.

Restoring Outside Calls

- Press  button.
- Press **FUNCTION**()button longer than 1 second and press   (GDK-162/ 100/FPII) or   (LDK-24/100/300/300E).
- Dial the current Access Authorization code.
- Press **FUNCTION**()button longer than 1 second.(Confirmation tone will be heard.)







NOTE : An access authorization code should be registered.

STOP!

- If a user forgets the access authorization code, only the admin station can restore it.

Universal Night Answer

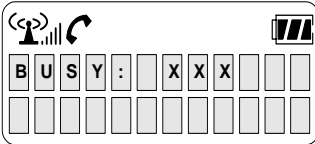
When the system is in universal night answering mode, the subscriber's station which is not ringing can receive a CO line call.

- Press  button.
- Press   (GDK-162/100/FPII/20W) or    (LDK-24/100/300/300E).

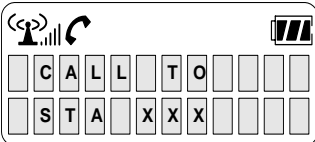
A user will be connected to ringing outside line.

Call Wait / Voice Over (Camp-on)

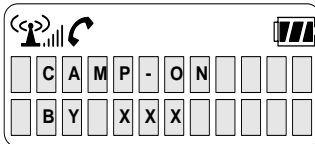
When an intercom call is busy, alerting the busy station can be done by CALL WAIT. During the conversation (internal call or CO line call), the busy station is heard alerting tone (camp-on tone) which alerting another call is waiting. Voice over between two callers can be done by VOICE OVER.



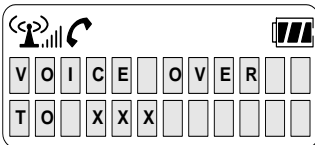
- If a user dials a busy station, CALL WAIT alerts call waiting to a busy station.
- After receiving intercom busy tone, press ***** or the last digit of the called station number.



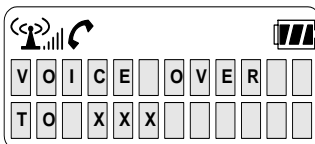
- The called station will hear camp-on tone. Then the called party can answers to a new call by pressing **HOLD** (**I/II**) button longer than 1 second.



When a busy terminal engaged an internal or external call is called through camp-on by a new caller,

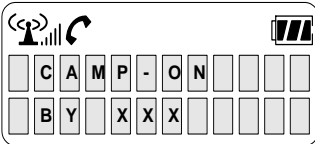


- Press **HOLD** (**I/II**) button longer than 1 second to connect to the other calling station.
The former calling party is on hold.
(If first call is internal call, this call is released in GDK-20W)

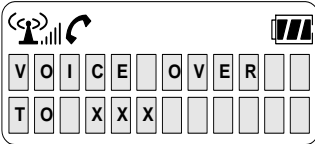


- Press **HOLD**(**I/II**) button longer than 1 second to voice over back to the former calling party .

Answering a Call Wait with Voice Over



- A user hears camp-on tone.



- Press **HOLD** () button longer than 1 second to connect to the second call. The first call is placed on hold. A user will be connected to the first call when the second call is released.
 (If first call is internal call, this call is released in GDK-20W)

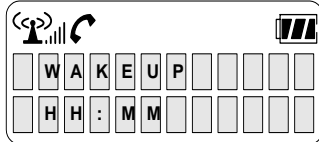
Wake-up Call

□ To Register Wake-up Call,

The system automatically sends ring signal to a station that already registered a wake-up time. Two kinds of wake-up call exist; effective for one-day or effective until canceled.

□ To Register Wake-up Time,

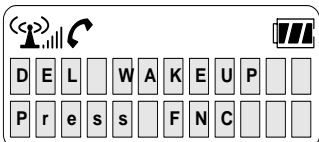
- Press button.
- Press **FUNCTION** () button longer than 1 second.
- Press and 4 digits wake-up time (HHMM) in 24-hour mode.
 (HH = 00~23, MM = 00~59)
- Press for permanent use. Otherwise it is set for just one time use.



- Press **FUNCTION** () button longer than 1 second.
 (Confirmation tone will be heard)

□ To Cancel Wake-up Call,

- Press button.
- Press **FUNCTION** () button longer than 1 second.
- Press .





- Press **FUNCTION** () button longer than 1 second.
 (Confirmation tone will be heard)

Step Call

- Call the desired intercom party.
 - After hearing ICM busy tone, dial the last digit of desired intercom party in the same 10's group.(e.g. If you dialed a busy station '112', press 4 to call station '114'.)
 - This feature can be used for external call by pressing "SPEED + last digit".
- * This feature is not available in GDK-20W.

Paging

- To page,**
- Press  button.
 - Dial page zone. (See the below table. Confirmation tone will be heard.)
 - After the tone, speak in a normal tone of voice.
 - Press  button.

Page Zone	GDK-162/100/FPII	GDK-20W
All Call	49	#0
Internal Zone 1~n	401~420 (GDK-162), 401~415 (GDK-100), 401~405 (FPII)	#1 ~ #2
Internal All Call	43	-
External Zone 1	46	#3
External Zone 2	47	-
External All Call	48	-

- Slettet:
- Slettet:4
- Slettet:
- Slettet:
- Slettet:
- Slettet: GDK-

Page Zone	LDK-24	LDK-100	LDK-300/300E
All Call	549	549	549
Internal Zone 1~n	501~505	501~510	501~530
Conference Page Zone	506~510	511~515	531~535
Internal All Call	543	543	543
External Zone 1	545	545	545
External Zone 2	-	546	546
External Zone 3	-	547	547
External All Call	-	548	548




Answering Paging

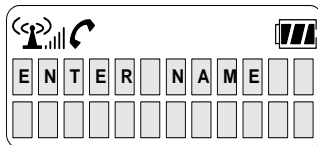
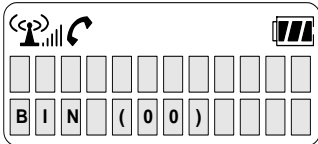
- Press  button.
- Press 4 4 (GDK-162/100/FPII), # 6 (GDK-20W) or 5 4 4 (LDK-24/100/300), and the paging party will be connected.






Programming a Name into Display

A user can store program user's station name. The name will be displayed instead of ICM station number on the LCD of DKTU or EKTU station. (This feature is not available in GDK-20W.)





1) GDK-162/100/FPII

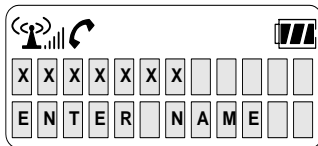
- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press **SPEED** () button shorter than 1 second.




- Press  .
- Press **SPEED** () button shorter than 1 second.
- Enter the station's name. (See the below table. Up to 7 characters can be entered.)
- Press **FUNCTION** () button longer than 1 second. (Confirmation tone will be heard.)
- Press  button.

2) LDK-24/100/300/300E

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .
- Enter the station's name. (See the below table. Up to 7 characters can be entered.)



- Press **FUNCTION** () button longer than 1 second. (Confirmation tone will be heard.)







A = [2][1]	B = [2][2]	C = [2][3]	D = [3][1]	E = [3][2]	F = [3][3]
G = [4][1]	H = [4][2]	I = [4][3]	J = [5][1]	K = [5][2]	L = [5][3]
M = [6][1]	N = [6][2]	O = [6][3]	P = [7][1]	Q = [1][1]	R = [7][2]
S = [7][3]	T = [8][1]	U = [8][2]	V = [8][3]	W = [9][1]	X = [9][2]
Y = [9][3]	Z = [1][2]	. = [1][3]	, = [*][3]	: = [*][2]	
BLANK = [*][1]	0 = [0][0]	1 = [1][0]	2 = [2][0]	3 = [3][0]	
4 = [4][0]	5 = [5][0]	6 = [6][0]	7 = [7][0]	8 = [8][0]	9 = [9][0]

STOP!

- The keyset making an intercom call should have the LCD display.

Station Program Recovery





This function is to recover the previously programmed data. It will be certified by LCD display. The followings are programmed data to be recovered.

- 1) Station number.
 - 2) Idle LCD message.
 - 3) Message icon.
 - 4) FORWARD message format.
 - 5) DND message format.
- Press  button.
 - Press **FUNCTION** () button longer than 1 second.
 - Press   (GDK-162/100/FPII/20W) or   (LDK-24/100/300/300E).
 - Confirmation tone will be heard.
 - Station number and idle message will be displayed on the LCD.
 - FORWARD and DND message format will be displayed on the LCD, if programmed.

The wireless terminal may be changed in the following situation after the above procedure.







- 1) When board configuration is changed.
- 2) When numbering plan is changed at ADMIN 01.
(GDK-162/100/FPII : ADMIN 01. GDK-20W : ADMIN Main Menu 9, LDK-24/100/300/300E : ADMIN 104)

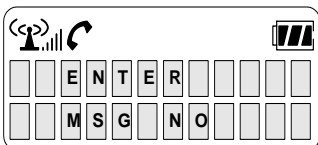
STOP!


- To display idle message again on the LCD, do the following procedure(GDK-162/100/FPII).
- Press  button.
 - Press **FUNCTION** () button longer than 1 second.
 - Press  .

Pre-selected Messages

A user can select a pre-assigned message to be displayed on the LCD of the calling terminal. (This feature is not available in GDK-20W.)

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press   (GDK-162/100/FPII) or   (LDK-24/100/300/300E).









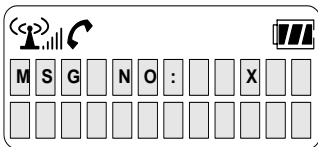
- Dial the number of desired message. Date, time or station number if required. (See the below table.)
- Press **FUNCTION** () button longer than 1 second. (Confirmation tone will be heard.)


No.	Description
0 0	User Custom Message (See Programming User Custom Message)
0 1	LUNCH TILL / hh:mm
0 2	VACATION / mm dd
0 3	RETURN AT / hh:mm
0 4	RETURN ON / mm dd
0 5	OUT OF OFFICE
0 6	T) (Telephone No. up to 17 digits)
0 7	IN OFFICE / STA xxx
0 8	MEETING / TILL hh:mm
0 9	AT HOME
1 0	AT BRANCH / OFFICE
#	Cancel code
1 1~2 0	are used for customized messages which are programmed by an attendant. (See "Creating Customized Messages")

Programming User Custom Message

A user may program a custom message to be displayed on the LCD of calling terminal.
 (This feature is not available in GDK-20W)

- Press  Button.
- Press **FUNCTION** () button longer than 1 second.
- Press   (GDK-162/100/FPII) or   (LDK-24/100/300/300E).
 (Confirmation tone will be heard.)







- Enter the message. (Up to 10 letters can be entered by using codes shown in the above "Programming A Name Into Display")
- Press **FUNCTION**() button longer than 1 second.
 (Confirmation tone will be heard.)

Functions Related with DVU (EDVU) – GDK-162/100/FPII

Slettet: ¶

* This feature is not available in GDK-20W.

Time Prompt:





- Press  button.
 - Press   .
- Time prompt will be heard; "Time is XX : XX PM".

Date Prompt:

















- Press  button.
- Press   .

Date prompt will be heard; "Date is July, 20th".







Station Number Prompt:

- Press  button.
 - Press   .
- Station number prompt will be heard; "This is station XXXX"








To record a greeting:

- Press  button.
- Press    (for no answer FWD) or    (for busy FWD).
- To stop recording, press  or **HOLD** button.
HOLD () button longer than 1 second : To leave a greeting message until canceled.
ON/OFF () : To erase a greeting message automatically after 48 hours.
- In case of using    , a caller will hear the greeting message when the called part does not answer the call within a default time (4 sec.).
- In case of using    a caller will hear the greeting message when the called part does not answer the call within a programmed time. The programming is done at an admin station. The admin programming code is "43 + flex24". The time range is 4 to 40 seconds.





To delete the greeting:

- Press  button.
- Press    (for no answer FWD) or    (for busy FWD).










To play back the greeting:

- Press  button.
- Press    (for no answer FWD) or    (for busy FWD).
The greeting message will be heard.

Station status prompt:

- Press  button.
 - Press   .
- A user will hear below items, (a-h). (c-g) items will not be heard unless they are activated.
- a) Station number XXXX
 - b) Listed message X
 - c) Wake-up time XXXX AM or PM
 - d) Do not disturb
 - e) Forwarded to station XXXX
 - f) Forwarded to speed bin XXX
 - g) Locked (temporary COS change)
 - h) COS X

To record a paging message:

- Press  button.
- Press    , then record a paging message.
- To stop recording, press  or **HOLD** () button longer than 1 second.
Caution: 1. pressing    one more time, erase the recorded message.
2. This feature should be programmed at the attendant station before using.

Functions Related with VMIB – LDK-24/100/300/300E





Date & Time Prompt:

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .

Station Number Prompt:

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .







Station status prompt:

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .

A user will hear below items, (a-h). (c-g) items will not be heard unless they are activated.

- a) Station number XXXX
- b) Listed message X
- c) Wake-up time XXXX AM or PM
- d) Do not disturb
- e) Forwarded to station XXXX
- f) Forwarded to speed bin XXX
- g) Locked (temporary COS change)
- h) COS X







To record a greeting:

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .
- Press # to start recording.
- Press **FUNCTION** () button longer than 1 second or  button.

To delete the greeting:

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .

To record a paging message:

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .
- Press # to start recording.
- Press **FUNCTION** () button longer than 1 second or  button.

Caution: This feature should be programmed at the admin station before using.

To delete a paging message:

- Press  button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .

Date / Time Display

* This feature is not available in GDK-20W & LDK-24/100/300/300E.



A current date and time will be displayed as;

- Press  Button.
- Press **FUNCTION** () button longer than 1 second.
- Press  .

Linked Station Pairs

* This feature is not available in GDK-20W.

Two stations can be linked with each other by programming. When two stations are linked, the following functions are supported;

- When a station is busy, the other idle linked station will not receive ring for CO lines, transferred ring or ICM calls.
- If one of two linked stations receives ICM/DISA/DID calls, then the other linked station will receive ring together.
- If any one station in a linked pair goes to DND state or pre-selected message display state, then the other goes to the same state automatically. Also, if any one station in a linked pair comes out of these state, then the other becomes to come out.
- If one of two linked station is busy, the LCD of the other station will display " IN USE AT LINK STA ".
- If you have set DND function, you should be sure that the wireless terminal be in DND state by pressing  button after setting DND function. Otherwise, because the system sends setting information related to message of the wireless terminal about every 3 minutes, you should wait about 3 minutes. When you canceled DND function, you should be sure that the wireless terminal be not in DND state by pressing  button after canceling DND function for the same reason, too.

5.3 DECT Features

Slettet: ¶

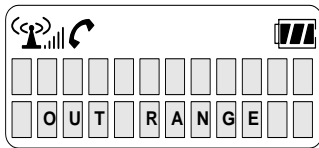
5.3.1 Mobility Management Function

Hand-Over

Once a call has been made, it is still necessary to change physical channels without release of the call. Frequency band or time slot can be changed due to quality degradation or interference, the associated base stations can be changed due to the mobility of a user in a multi-cell environment.

Formatert: Punktmerking og nummerering

Out of Range Indication



- If the wireless terminal is getting too far from the base station to which it locks, then soft mute is occurred and warning tone will be heard once during a call or in an idle state. Then, "OUT RANGE" message is displayed on the LCD as the left.

- To maintain a call, move closer to the base station. Bear in mind that walls, buildings, and especially large metal surfaces have strong screening effects.
- When pressing [ON/OFF] button in out of range, the wireless terminal generates 1 beep with "OUT RANGE" message on the LCD and goes to an idle state.
- Pressing [ON/OFF] button is ignored in state the wireless terminal is not locked.

Call-Drop Warning Indications


Apart from the above out of range indication, there are two more indications to warn call-drop.

- Radio interference: When a cell is fully occupied and there is sudden heavy radio interference, one call is dropped and three beeps will be heard with no message.
- Entering fully occupied range: When a user is moving to a fully occupied cell, one beep is heard with no message with two seconds interval. The closer to the cell, the more unstable the call is. Try to move toward other cell.

Authentication

When the system requests authentication to a wireless terminal, a user should follow the following sequence to reply to the authentication. The authentication is requested by an attendant and the wireless terminal should have its authentication code (password) to answer the request. Refer to 'Authentication Code' to register or change the password.

"ENTER UPI" message is displayed on the LCD of the wireless terminal when the attendant requests the authentication, a user should follow the following sequence.

- Enter the password. *The storing and changing method of the password may be different according to the subscribed system.*
- Press FUNCTION () button longer than 1 second.

Slettet: ¶

Slettet: <#>¶
<#>¶

Select FP

Whenever a user wants to know which systems' the wireless terminal is subscribed to, this function can be used. Also, if a user wants to use another system instead of the system in use, this function can be used, too. However, if a user wants to use another system, the wireless terminal should be subscribed to it. Please refer to '6.6 Change of Subscribed System' for details.

Slettet: ¶
¶

Subscription & Desubscription

This function is to subscribe the wireless terminal to the system and to desubscribe it. Please refer to '6.2 Subscription', '6.3 Desubscription I' and '6.4 Desubscription II' for details.

5.3.2 Wireless Terminal Service Function

These features give a user convenience to use the wireless terminal more powerfully. These features include the functions operated by each feature button and the functions operated by *User Menu*. Please refer to '5.3.3 User Menu' about operation.

Go to Pulse Function

This function is that the pressed digit signal from the wireless terminal to C.O. is generated to pulse. Use this function in case that the outside PBX or phone(e.g. mechanical switching gear) requests pulse tone. However, according to capability of the subscribed system, this function may be operated or not. This function will be used for Home DECT inter-operability, not for GDK & LDK series.

- Press **#** button for longer than 1 second during pre-dialing or post-dialing.
- The dial tone is transferred to pulse tone.

Slettet: ¶

Go to DTMF Function

This function is that the pressed digit signal from the wireless terminal to C.O. is generated to DTMF. Use this function in case that the outside PBX or phone requests DTMF tone. However, according to capability of the subscribed system, this function may be operated or not. This function will be used for Home DECT inter-operability and for GDK & LDK series.


- Press ***** button for longer than 1 second during pre-dialing or post-dialing.
- The dial tone is transferred to DTMF tone.

Vibrator/Ring Selecting Function

Slettet: ¶

A user can select the one mode among **Vibrator** (=Ring off), **Ring** (=Vibrator off) and **Vibr & Ring**. This function is set by **Vibr/Ring** setting operation in **HS Setting** menu of *User Menu*. When a Vibrator is selected, ring tone can't be generated. But for being conscious of incoming call there is phone vibration. When Vibr & Ring is selected, there are ring tone and vibration at the same time. The initial state is **Ring**.

Silent Mode Setting Function

A user can make silent mode of the phone. Silent mode is set by pressing the OK () button more than 1 second when the phone is in idle state, then there is one time vibration. In silent mode, there aren't beep tones, key tones and rings. But for being conscious of incoming call there is phone vibration

To cancel the silent mode, pressing the OK () button more than 1 second when the phone is in idle state, then confirmation tone is heard and silent mode function is disabled.

Ring Type Selection & Ring Volume Setting Function

The intercom ring melody and the CO(outside) ring melody can be selected among 9 different types. A user can adjust the intercom ring volume level and the CO ring volume level from level 0 to level 6. Melody and volume are set by **ExtRing**, **IntRing** setting operation in **HS Setting** menu of *User Menu*. The initial melody is 1, normal ring, and the initial volume setting is 3, middle volume.

Key Click and Buzzer Volume Setting Function

A user can adjust key tone volume from level 0 to level 6. The initial setting is 3, middle volume. Also, a user can adjust buzzer volume from level 0 to level 6. The initial setting is 3, middle volume. Key click volume and buzzer volume are adjusted by **KeyTone**, **Buzzer** setting operation in **HS Setting** menu of *User Menu*.

Cradle On and Off Function (Charger Answer On/Off Function)

When the terminal is on the charger and an intercom or CO ring is heard, just lift up the terminal, then a call will be connected. To hang up, just put the terminal on the charger, then a call will be disconnected. This function is set to **Enable** or **Disable** by **Chrg Ans** setting operation in **HS Setting** menu of *User Menu*. The initial state is **Disable**.

Headset Ring On and Off Function

If a headset is attached on the handset when an incoming call is received, user can also hear the ringing tone through the headset. This function is set to **Enable** or **Disable** by **Headset** setting

operation in **HS Setting** menu of *User Menu*. The initial state is **Disable**.

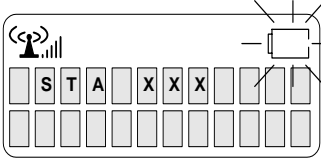
Auto Answer On and Off Function


When the terminal receives an intercom or CO call, if this function is enabled, then connection will be made automatically after 9~10 seconds (This time is same as three times ringing when the melody type is set to "TYPE 1"). This function is set to **Enable** or **Disable** by **Auto Ans** setting operation in **HS Setting** menu of *User Menu*. The initial state is **Disable**.


Battery Level Display / Low Battery Indication

Slettet: ¶

This function is to see how much battery voltage level is remained.



If battery voltage level is decreased to less than $2.3V \pm 0.1V$, low battery indication is generated. The block in a low battery icon () in blinking in every second and the low battery warning tone is generated in every 20 second until the voltage level reaches over $2.3V \pm 0.1V$ by re-charging the battery. When a user

puts the wireless terminal on the charger provided by LGE, the low battery warning tone and the blinking low battery icon () are disappeared.

Direct Call

A user can make a direct call at urgent state.

1) Storing / Display Function.

Slettet: 1)

This function is to store a direct call number. Direct call number is stored by **DirectCall** setting operation in main menu of *User Menu*. The initial state is **Disable**.

2) Direct Call ENABLE/DISABLE Function.

Slettet: ¶

This function is to enable or disable a direct call function. This function is set to ENABLE or DISABLE by **DirectCall** setting operation in main menu of *User Menu*. The initial state is **Disable**.

3) Making an Direct Call.

Slettet: ¶

This function is to make a direct call. There are several conditions to make a direct call. At first, direct call function should be enabled. Second, the wireless terminal should be operated in available range. Third, a user should store the number that is available in system. And it is impossible to make an external call in when intercom class is 7. Please refer to **DirectCall** menu in *User Menu* about this function.

Key Lock

This function is to prevent from pressing any key unconsciously. In key-lock mode, when a user receives a call, the mode is changed to the key-unlock mode automatically. When hanged up a call, the mode is returned to the key-lock mode. A user can only receive an incoming call in this mode. This function is set to ENABLE or DISABLE by **KeyLock** setting operation in *User Menu*. The initial state is **DISABLE**. Once this function is set to ENABLE, any key operation is not available except for for key-unlock procedure. While setting this function, a user can receive a call if there is an

incoming call.

Phone Book


This feature, Phone Book can make it possible to store a series telephone numbers with matching names and to retrieve them to make phone calls. Up to 30 pairs of telephone numbers and names can be stored. A telephone number is made up with up to twenty-four digits and a name is consist of up to 12 characters.

Formatert

1) Storing Memory dial

Slettet: ¶

Follow the below steps to add telephone numbers with numbers and names.

- Press **MENU(UP(▲))** or **DOWN(D▼)** button.
- Main Menu is displayed on the LCD.
- Press **7** (or set '>' mark to '7 Phonebook' by pressing **UP(▲)** button or **DOWN(D▼)** button and press **OK** button).
- Phonebook Menu is displayed on the LCD.
- Press **2** (or set '>' mark to '2 Edit' by pressing **UP(▲)** button or **DOWN(D▼)** button and press **OK** () button. "Enter No" message will be shown.

Enter No

- Enter the desired phone number using dial button.

012345678901
23456

- Press **OK** () button. "Enter Name" message will be shown.

Enter Name

- Edit a name according to the following table. Press a key repeatedly until a desired character or symbol is shown. For example, if the user press '0' repeatedly, he/she will see '0', '""', '“', '”', '‘', '’' in this order. On each digit key, several characters are written with a digit. When he/she press one of the keys, capital characters are shown first, then the digit, and small characters are shown last. The following table is constructed as just described.

Formatert: Punktmerking og nummerering

... [1]

KEY	Number to Repeat														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Q	Z	q	z	?	!	&	-	*	+	/	%	¤	_	1
2	A	B	C	a	b	c	Ä	Å	â	ä	■	ç	2		
3	D	E	F	d	e	f	É	é	ê	ë	è	3			
4	G	H	I	g	h	i	í	ï	î	ì	4				
5	J	K	L	j	k	l	5								
6	M	N	O	m	n	o	Ñ	ñ	Ö	ô	ö	ò	6		
7	P	Q	R	S	p	q	r	s	7						
8	T	U	V	t	u	v	Ü	ü	û	ù	8				
9	W	X	Y	Z	w	x	y	z	ý	9					
0	0	“	‘	,	.	:	;	<	>	()				

- Press a new key or DOWN (▼) button to move to a next letter. If the next letter is assigned to the same key, use DOWN (▼) button.
 For example, to edit “Non” as a part of a name, press the key combination in the below table.

Slettet: <#>¶

KEYS	LCD Display
DIAL KEY '6'	M
DIAL KEY '6'	N
DOWN(▼) KEY	N_
DIAL KEY '6'	NM
DIAL KEY '6'	NN
DIAL KEY '6'	NO
DOWN(▼) KEY	NO_
DIAL KEY '6'	NOM
DIAL KEY '6'	NON
DIAL KEY '6'	NOO
DIAL KEY '6'	Nom
DIAL KEY '6'	Non

- To correct an edited letter during editing, **Flash** (C/R) button, then last edited letter is deleted. The deletion takes place from right to left.
 For example,

Enter Name
Non

Flash (C/R) button make the message as the follow.

Enter Name
NO_

Hold the **Flash** (C/R) button for over one second to back to the pre-dialing state. But the telephone number is still there.
 Up to ten characters for a name can be written.

- Press the **Function** (OK/MS) button to save the editing, then the following message will be shown.


SavePosition
[XX]

- If there is no more space to save, the below message be displayed.


SavePosition
Memory Full

- To overwrite one of the saved numbers, assign a position from 1 to 30 then the following message will be shown.

SavePosition
[XX]










- Then press **OK** () button and the following message will be shown.

Cell used
Replace?




Then press Function button to replace the old one with the new one. If the Flash () button is pressed instead of the Function button, the new number and the name will be canceled and it will go back to phone book edit state.

2) Retrieving and Calling

◆ Using Phonebook menu procedure.

- Press **MENU**() or **DOWN**() button.
- Main Menu is displayed on the LCD.
- Press  (or set '>' mark to '**7 Phonebook**' by pressing **UP**() button or **DOWN**() button and press **OK** () button.
- Phonebook Menu is displayed on the LCD.
- Press  (or set '>' mark to '**1 Dial**' by pressing **UP**() button or **DOWN**() button and press **OK** button). Name and number displayed as follow,











01] ABCDEFGH
XXXXXXXXXXXXX

- Using **UP**() button or **DOWN**() button, move cursor in desired number.
- Press  button or Intercom button (**INT**) to make a call when a wanted name or number is found.




◆ Using Speed dial procedure.

- In idle state, user can make an outgoing call by pressing number saved in memory more than 1 second.
- Available speed dial number is from 1 to 30.

3) Deleting

- Press **MENU** (**UP**() or **DOWN**() button.
- Main Menu is displayed on the LCD.
- Press  (or set '>' mark to '**7 Phonebook**' by pressing **UP**() button or **DOWN**() button and press **OK** () button).
- Phonebook Menu is displayed on the LCD.
- Press  (or set '>' mark to '**3 Delete**' by pressing **UP**() button or **DOWN**() button and press **OK** () button). Name and number displayed as follow,

01] ABCDEFGH
XXXXXXXXXXXXX

- Using **UP**() button or **DOWN**() button, move cursor in desired number.
- Press **OK** () button. Confirm tone will be heard, and then handset goes to idle state.

Local Redial




The last ten called telephone numbers are stored in the wireless terminal. If the numbers are the same, the same numbers are saved.

◆ *To store redial number,*



- The last ten called phone numbers are automatically stored.

Slettet: three

◆ *To use the local redial,*

- Press **REDIAL**() button.
- After selected redial is displayed, press **UP**(▲) button, **DOWN**(▼) button or **REDIAL**() button in order to scroll redial numbers until the desirable number is displayed on the LCD.
- Press  button to make a call.

STOP!

- After pressing **REDIAL**() button, a user may edit a displayed number by pressing numeric keys and **FLASH**() button.

Slettet: ¶

Slettet: is

RX Volume

This function is used when received voice volume is very small or very loud. To use this function during a call,

- Press **UP**(▲) button to be up voice volume or **DOWN**(▼) button to be down.

Since key click tone is different at Max. level and Min. level, a user can recognize that the level is reached to Min. level or Max. level without any display on the LCD.

Slettet: ¶
¶

Pin Code Change

A user can change PIN code. The initial PIN code is 0000.

Ear-Mic

If an Ear-Mic, which is an optional accessory, is attached to a GDC-345H, it can receive or release a call. Press the button on the Ear-Mic to receive the call while a ring sounds, and do the same action to release the call. Making a call by using the Ear-Mic is not supported, and pressing the button except ringing and call-connecting situations do not change anything.

To attach an Ear-Mic to a GDC-345H, refer to the figure in '3.1 Wireless terminal (GDC-345H)'.



※ Notice

- Using noise canceling or unidirectional Ear-Mic/headset, whose Mic impedance is below 1 KΩ, may cause the abnormal operation (Self-answering without press button when incoming call and similar on-hook when if put Ear-Mic in/off in the middle of talking). In general, Mic

impedance is 1~2.2 KΩ.

5.3.3 USER MENU

The User Menu consists of 7 sub-menus and each menu will be described in detail in the followings. Refer to Appendix A for menu structure. Generally each operating procedure is processed by using the following key functioned as described.

- 1)  Button : This key functions that when pressing this key, it makes one step backward or one digit erased. And pressing longer than 1 second, the current function is canceled or all digits are erased.
- 2)  Button : Pressing this key makes the current function state saved. And it makes the current function ended.

Slettet: eys

Slettet: functioned as described



Slettet: urr

Slettet: ctio

Slettet: ¶

HS Setting(Handset Setting Menu)




1) Vibr/Ring

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press  (or set '>' mark to '1 HS Setting' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button.).
- HS Setting Menu is displayed on the LCD.
- Press  (or set '>' mark to '1 Vibr/Ring' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button.).
- The current setting is displayed on the LCD. The initial state is **Ring**.
- To scroll setting, press **UP**(▲) button or **DOWN**(▼) button. To deactivate ringing, choose **Vibrator**.
- Press **OK** button to change the status or press **FLASH** button to maintain the current status and to return to HS Setting Menu.
- While operating, a user can receive a call when there is an incoming call.

Slettet: n th

2) ExtRing

① Ring Type Selection

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press  (or set '>' mark to '1 HS Setting' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- HS Setting Menu is displayed on the LCD.
- Press  (or set '>' mark to '2 ExtRing' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- The ExtRing menu is displayed on the LCD.
- Press  (or set '>' mark to '1 Melody' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- The current ring type is displayed on the LCD. The initial setting is 'Type 1'.
- Press **UP**(▲) button or **DOWN**(▼) button to select a preferable ring rhythm.
- Press **OK** button to change the setting or press **FLASH** button to maintain the current setting and to return to ExtRing Menu.
- While operating, a user can receive a call when there is an incoming call.

② Ring Volume Selection

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 HS Setting' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- HS Setting Menu is displayed on the LCD.
- Press **2** (or set '>' mark to '2 ExtRing' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- The ExtRing menu is displayed on the LCD.
- Press **2** (or set '>' mark to '2 Volume' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- The current ring volume level is displayed on the LCD. The initial setting is level 3.
- Press UP(▲) button or DOWN(▼) button to select a preferable ring volume level(0~6).
- Press **OK** button to change the setting or press **FLASH** button to maintain the current setting and to return to ExtRing Menu.
- While operating, a user can receive a call when there is an incoming call.

3) IntRing

① Ring Type Selection

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 HS Setting' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- HS Setting Menu is displayed on the LCD.
- Press **3** (or set '>' mark to '3 IntRing' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- The IntRing menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 Melody' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- The current ring type is displayed on the LCD. The initial setting is 'Type 1'.
- Press UP(▲) button or DOWN(▼) button to select a preferable ring rhythm.
- Press **OK** button to change the setting or press **FLASH** button to maintain the current setting and to return to IntRing Menu.
- While operating, a user can receive a call when there is an incoming call.

② Ring Volume Selection

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 HS Setting' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- HS Setting Menu is displayed on the LCD.
- Press **3** (or set '>' mark to '3 IntRing' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- The IntRing menu is displayed on the LCD.
- Press **2** (or set '>' mark to '2 Volume' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).

- The current ring volume level is displayed on the LCD. The initial setting is level 3.
- Press **UP(▲)** button or **DOWN(▼)** button to select a preferable ring volume level(0~6).
- Press **OK** button to change the setting or press **FLASH** button to maintain the current setting and to return to IntRing Menu.
- While operating, a user can receive a call when there is an incoming call.

4) Key Tone

- Press **MENU(UP(▲) or DOWN(▼))** button.
- Main Menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 HS Setting' by pressing **UP(▲)** button or **DOWN(▼)** button and press **OK** button).
- HS Setting Menu is displayed on the LCD.
- Press **4** (or set '>' mark to '4 KeyTone' by pressing **UP(▲)** button or **DOWN(▼)** button and press **OK** button).
- The current key volume level is displayed on the LCD. The initial setting is level 3.
- Press **UP(▲)** button or **DOWN(▼)** button to select a preferable ring volume level(0~6).
- Press **OK** button to change the status or press **FLASH** button to maintain the current status and to return to HS Setting Menu.
- While operating, a user can receive a call when there is an incoming call.

5) Buzzer Volume

- Press **MENU(UP(▲) or DOWN(▼))** button.
- Main Menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 HS Setting' by pressing **UP(▲)** button or **DOWN(▼)** button and press **OK** button).
- HS Setting Menu is displayed on the LCD.
- Press **5** (or set '>' mark to '5 Buzzer' by pressing **UP(▲)** button or **DOWN(▼)** button and press **OK** button).
- The current buzzer volume level is displayed on the LCD. The initial setting is level 3.
- Press **UP(▲)** button or **DOWN(▼)** button to select a preferable ring volume level(0~6).
- Press **OK** button to change the status or press **FLASH** button to maintain the current status and to return to HS Setting Menu.
- While operating, a user can receive a call when there is an incoming call.

6) Charger Answer

- Press **MENU(UP(▲) or DOWN(▼))** button.
- Main Menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 HS Setting' by pressing **UP(▲)** button or **DOWN(▼)** button and press **OK** button).
- Setting Menu is displayed on the LCD.
- Press **6** (or set '>' mark to '6 Chrg Ans.' by pressing **UP(▲)** button or **DOWN(▼)** button and press **OK** button).
- The current setting is displayed on the LCD. The initial state is **Disable**.
- To scroll setting, press **UP(▲)** button or **DOWN(▼)** button. To activate this function, choose **Enable**.
- Press **OK** button to change the status or press **FLASH** button to maintain the current status and to return to Setting Menu.

- While operating, a user can receive a call when there is an incoming call.

7) Headset Ring

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 HS Setting' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- Setting Menu is displayed on the LCD.
- Press **7** (or set '>' mark to '7 Headset' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- The current setting is displayed on the LCD. The initial state is **Disable**.
- To scroll setting, press UP(▲) button or DOWN(▼) button. To activate this function, choose **Enable**.
- Press **OK** button to change the status or press **FLASH** button to maintain the current status and to return to Setting Menu.
- While operating, a user can receive a call when there is an incoming call.

8) Auto Answer

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **1** (or set '>' mark to '1 HS Setting' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- Setting Menu is displayed on the LCD.
- Press **8** (or set '>' mark to '8 Auto Ans.' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- The current setting is displayed on the LCD. The initial state is **Disable**.
- To scroll setting, press UP(▲) button or DOWN(▼) button. To activate this function, choose **Enable**.
- Press **OK** button to change the status or press **FLASH** button to maintain the current status and to return to Setting Menu.
- While operating, a user can receive a call when there is an incoming call.

KeyLock (Key Lock Function)

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **2** (or set '>' mark to '2 KeyLock' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- Confirmation tone will be heard and displayed "KEY LOCK" and key lock icon.
(The initial state is disable)

When key lock mode is set, "KEY LOCK" is displayed on the LCD and Key Lock Icon is displayed.
In key lock mode, all keys can't be entered except for key-unlock procedure (**MENU** + **#**)

Slettet: ¶
Slettet: ¶

SelfP (Select FP)


The wireless terminal, GDC-345H(GAP), can be subscribed to up to 4 GAP systems. However, the wireless terminal can't use all systems at the same time. Only one system selected by a user is available for using the wireless terminal. This function is to select system that a user wants to use. Please refer to '6.6 Change of Subscribed System' for details.

Slettet: which

Call Log (Caller ID)

When incoming call arrived, handset stores the caller ID. User can check the caller ID in call log menu.

□ Review caller ID and dialing form caller ID

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **4** (or set '>' mark to '4 Call Log' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- Check new messages and all received messages. The number of new means receive number after last checking.
- Press **OK** button and check recent received message.
(Displaying the name of caller doesn't support.)
- Phone number is displayed on LCD and then searched using **UP** or **DOWN** button.
(When over 20 messages, the oldest data is updated)
- Press **OK** button and then detailed information of received number is displayed.
(If same messages are received, only received the number of times are displayed)
- If you want to make a call using this number, press  button during display.

! Notice

This feature is supported on LDK-100/300 (MPB version 1.0Ba above and WTIB version 1.0G above) and GDK-20W (MPB version 3.0Aa above). In LDK-24 system, this feature is available without version. GDK-162/100/FPII doesn't support this feature. LDK-24/100/300/300E supports this feature with both external and internal call, but GDK-20W supports this feature with external call only.

HS PIN(Handset PIN code Change Function)

- Press **MENU**(UP(▲) or **DOWN**(▼)) button.
- Main Menu is displayed on the LCD.
- Press **5** (Or set '>' mark to '5 System' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- System menu is displayed on the LCD.
- Press **4** (Or set '>' mark to '4 HS PIN' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- Enter the current PIN code.
- Press **OK** button.
- Enter new PIN code.
(If over 8 digits, buzzer tone will be heard and the input can't be displayed any more)
- Press **OK** button.
- Enter new PIN code for confirmation.
- Press **OK** button to save new PIN code or press **FLASH**(**C/R**) button to maintain the current PIN code and to return to System Menu.

Slettet: ent

Slettet: Press

UnRegister (Desubscription)

This function is to unsubscribe the wireless terminal from the subscribed system. Please refer to '6.3 Desubscription I' for details.

Register (Subscription)

This function is to subscribe a wireless terminal to the system. Please refer to '6.3 Desubscription I' for details.

Memory Clear

This function is to clear redial number, direct call number and call log.

- Press **MENU**(UP(▲) or **DOWN**(▼)) button.
- Main Menu is displayed on the LCD.
- Press **5** (Or set '>' mark to '5 System' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- System menu is displayed on the LCD.
- Press **3** (Or set '>' mark to '3 ResetHS' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- ResetHS menu is displayed on the LCD.
- Press **1** (Or set '>' mark to '1 MemClear' by pressing **UP**(▲) button or **DOWN**(▼) button and press **OK** button).
- Confirm message is displayed on the LCD.
- Press **OK** button. Redial number, direct call number and call log is deleted with success tone.

Handset Reset

This function is to set handset's all setting value in default such as phone book, call log, redial number and direct call number..

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **5** (Or set '>' mark to '5 System' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- System menu is displayed on the LCD.
- Press **3** (Or set '>' mark to '3 ResetHS' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- ResetHS menu is displayed on the LCD.
- Press **2** (Or set '>' mark to '2 H-Reset' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- Confirm message is displayed on the LCD.
- Press **OK** button.
- Enter the current PIN code.
- Press **OK** button. Handset is reset to default with success tone.

Slettet: ent

! **Notice** : This function erases all registration value.

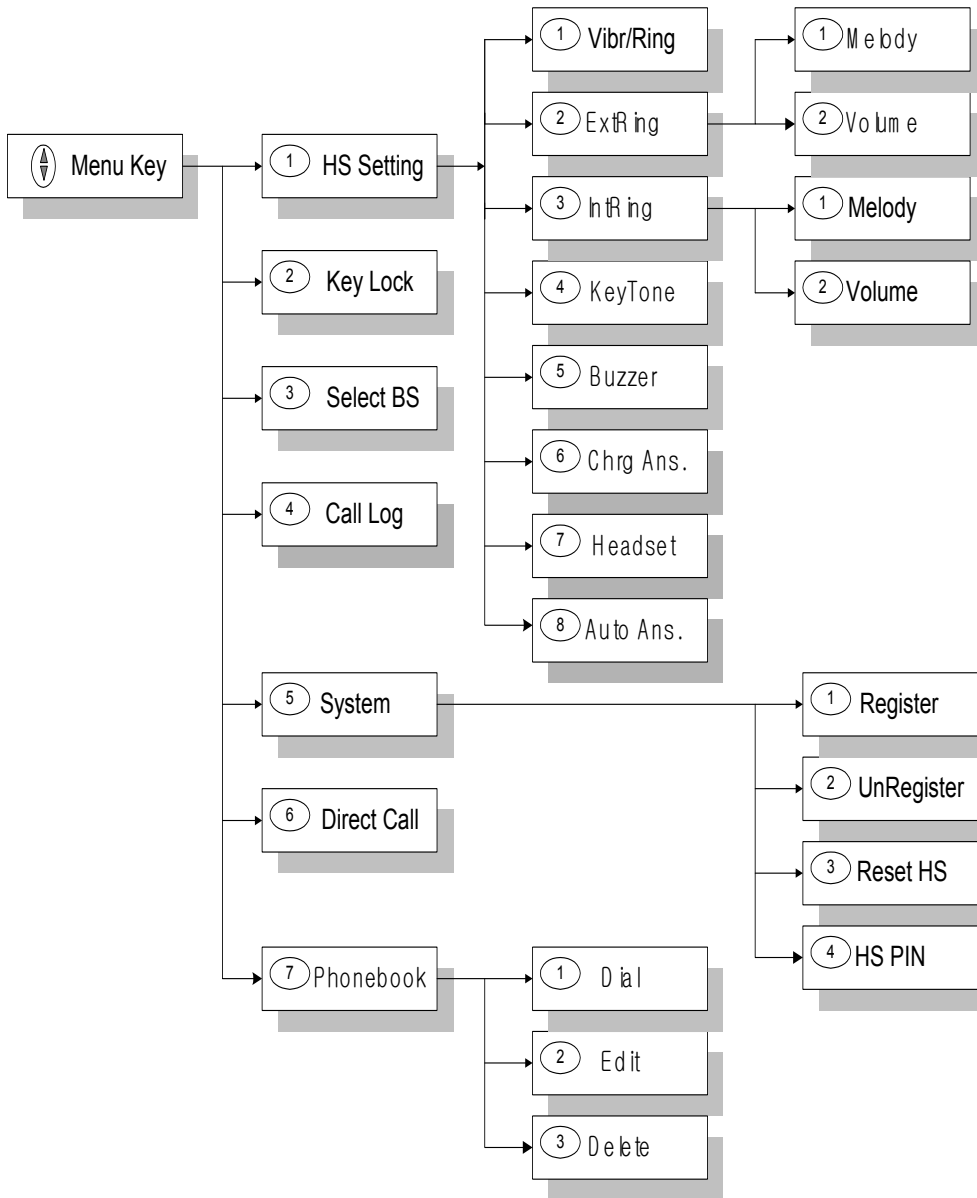
DirectCall(Making a Direct Call)

Slettet: A

- Press **MENU**(UP(▲) or DOWN(▼)) button.
- Main Menu is displayed on the LCD.
- Press **6** (or set '>' mark to '6 DirectCall' by pressing UP(▲) button or DOWN(▼) button and press **OK** button).
- The current setting is displayed on the LCD. The initial state is **OFF**.
- To scroll setting, press UP(▲) button or DOWN(▼) button. To activate this function choose **ON**.
- Press **OK** button.
- 'Direct No' is displayed in LCD.
- Enter the phone number in Direct No and press **OK** button.
- "DIRECTCALL" is displayed on the LCD and a direct call is set up

*When direct call mode is set, "DIRECTCALL" is displayed on the LCD.
In this mode, all calls can be made a call except for Menu key.*

Appendix. A USER MENU TREE



Notes : 1. When you go back to previous menu, press 'C/R' key.
 2. When you go back to 'Idle State', press 'C/R' key more than 1 second.

■ Each number means the numeric key.

Slettet: ¶

Appendix. B Function Short-Key Table

1. Function Short-Key Table related to *Key System Call Service*

* *GDK-162/100/FPII*

FEATURE	INPUT KEY	
Call Transfer	(During a call) [TRANS] + STA # + ON/OFF(☞)	
Call Waiting/Camp On	ON/OFF(☞) + STA # + (if busy tone is heard) ¶	
Call Back	ON/OFF(☞) + STA # + [CALL BACK]	
Attendant Call	ON/OFF(☞) + 0 or ON/OFF(☞) + 9	
Paging	Internal Zone	ON/OFF(☞) + 4 + digit (☞ Refer to '5.2.2. Paging'.)
	Internal All Zone	ON/OFF(☞) + 4 + 3
	Meet-me Page	ON/OFF(☞) + 4 + 4
	External Zone 1	ON/OFF(☞) + 4 + 6
	External Zone 2	ON/OFF(☞) + 4 + 7
	External All Zone	ON/OFF(☞) + 4 + 8
	All Zone	ON/OFF(☞) + 4 + 9
DND (Do Not Disturb)	ON/OFF(☞) + 5 + 3	
Call Forward	Follow Me	ON/OFF(☞) + 5 + 4 + 0 + STA # (only the station which has its password can activate this function)
	Unconditional	ON/OFF(☞) + 5 + 4 + 1 + STA #
	Busy Calls	ON/OFF(☞) + 5 + 4 + 2 + STA #
	No Answer Calls	ON/OFF(☞) + 5 + 4 + 3 + STA #
	Busy/No Answer Calls	ON/OFF(☞) + 5 + 4 + 4 + STA #
	Station Off-net	ON/OFF(☞) + 5 + 4 + 5 + SPD BIN #
	DVU	ON/OFF(☞) + 5 + 4 + 7 (default time transfer)
DVU	ON/OFF(☞) + 5 + 4 + 8 (programmed time transfer)	
DND(toggle)/Call Forward Cancel	ON/OFF(☞) + 5 + 9 or 5 + 3/ ON/OFF(☞) + 5 + 9 or 5 + 4 + #	
Call Parking Locations	ON/OFF(☞) + 6 + digit (01~19)	
Call Pilot Number	ON/OFF(☞) + 6 + digit (20~49)	
Pick Up	Group Call Pick Up	ON/OFF(☞) + 6 + 6
	Direct Call Pick Up	ON/OFF(☞) + 7 + STA #
DVU	Record Greeting	ON/OFF(☞) + 6 + 7 + 0 (transferred after a programmed time)
	Current Time Prompt	ON/OFF(☞) + 6 + 7 + 1
	Current Date Prompt	ON/OFF(☞) + 6 + 7 + 2
	Station Number Prompt	ON/OFF(☞) + 6 + 7 + 3
	Record Greeting	ON/OFF(☞) + 6 + 7 + 4 (transferred after the default time, 4 seconds)
	Delete Greeting	ON/OFF(☞) + 6 + 7 + 5
	Play Back Greeting	ON/OFF(☞) + 6 + 7 + 6
	Station Status	ON/OFF(☞) + 6 + 7 + 7
	Record Paging Message (toggle)	ON/OFF(☞) + 6 + 7 + 8
Retrieve Paging Message	ON/OFF(☞) + 6 + 7 + 9	
Universal Night Answer	ON/OFF(☞) + 6 + 9	
CO Line Access	ON/OFF(☞) + 8 + digit (01~48)	
Individual CO Line Access	ON/OFF(☞) + 8 + 8 + digit (01~96)	
Station Speed Dial	ON/OFF(☞) + [SPEED] + digit (00~19)	
Redial	Saved Number	ON/OFF(☞) + [SPEED] + #
	Last Number	1. ON/OFF(☞) + [SPEED] + ¶ or [REDIAL](☉) (This case is available only for CO line call.) 2. [REDIAL](☉) + [ON/OFF](☞)
Last Tel. Number Display	ON/OFF(☞) + [SPEED] + ¶	
Saved Tel. Number Display	ON/OFF(☞) + [SPEED] + #	
Station Program Recovery	ON/OFF(☞) + [FUNCTION] + 2 + 5	

FEATURE	INPUT KEY	
Date/Time Display	ON/OFF(☞) + [FUNCTION] + 2 + *	
Wake-Up Call	Set function	ON/OFF(☞) + [FUNCTION] + 4 + 1 + Time(hh:mm) + (# for permanent use) + [FUNCTION]
	Reset function	ON/OFF(☞) + [FUNCTION] + 4 + 2 + [FUNCTION]
Authorization Code (Password)	Register	ON/OFF(☞) + [FUNCTION] + 4 + 4 + Password (5digits) + [FUNCTION]
	Change	ON/OFF(☞) + [FUNCTION] + 4 + 5 + The current Password (5digits) + New password + [FUNCTION]
Temporal Station COS Change (a password is necessary for this function)	Change	ON/OFF(☞) + [FUNCTION] + 4 + 6 + [FUNCTION]
	Recovery	ON/OFF(☞) + [FUNCTION] + 4 + 7 + The current Password (5 digits) + [FUNCTION]
Programming User Custom Message	ON/OFF(☞) + [FUNCTION] + 4 + 8 + Input Message(within 23 characters) + [FUNCTION]	
Pre-Selected Message Display	ON/OFF(☞) + [FUNCTION] + 7 + 7 + Digits(00~19, #) + [FUNCTION]	
Programming A Name Into Display	ON/OFF(☞) + [FUNCTION] + [SPEED] + 0 + 0 + [SPEED] + Station Name + [FUNCTION] + ON/OFF(☞)	
Call-by-Name	ON/OFF(☞) + [SPEED] + [SPEED]	
Save Last Tel. Number	(During a call) [SPEED] + [SPEED]	
Entering CLI Message Display	ON/OFF(☞) + [CALL BACK] + [UP/DOWN] (▼ or ▲)	
Clear CLI Message Display	ON/OFF(☞) + [CALL BACK] + [UP/DOWN] (▼ or ▲) + [FLASH](C/R)	

* **GDK-20W**

FEATURE	INPUT KEY	
Call Transfer	(During a call) [TRANS] + STA # + ON/OFF(☞)	
Call Waiting/Camp On	ON/OFF(☞) + STA # + (if busy tone is heard) †	
Call Back	ON/OFF(☞) + STA # + [CALL BACK]	
Attendant Call	ON/OFF(☞) + 0 or ON/OFF(☞) + 9	
Paging	All Call	ON/OFF(☞) + # + 0
	Internal Zone 1	ON/OFF(☞) + # + 1
	Internal Zone 2	ON/OFF(☞) + # + 2
	External	ON/OFF(☞) + # + 3
	Meet-me Page	ON/OFF(☞) + # + 6
DND (Do Not Disturb, Toggle)	ON/OFF(☞) + 5 + 3	
Call Forward	Unconditional	ON/OFF(☞) + 5 + 4 + 1 + STA #
	Busy Calls	ON/OFF(☞) + 5 + 4 + 2 + STA #
	No Answer Calls	ON/OFF(☞) + 5 + 4 + 3 + STA #
	Busy/No Answer Calls	ON/OFF(☞) + 5 + 4 + 4 + STA #
	Station Off-net	ON/OFF(☞) + 5 + 4 + 5 + SPD BIN #
	DVIB	ON/OFF(☞) + 5 + 4 + 7
Call Forward Cancel	ON/OFF(☞) + 5 + 4 + #	
Call Pilot Number	ON/OFF(☞) + digit (61~64)	
Group Call Pick Up	ON/OFF(☞) + 6 + 6	
Universal Night Answer	ON/OFF(☞) + 6 + 9	
CO Group Access	ON/OFF(☞) + 8 + digit (1~4)	
Individual CO Line Access	ON/OFF(☞) + 8 + 8 + digit (1~8)	
Station Speed Dial	ON/OFF(☞) + [SPEED] + digit (01~19)	
Last Number Redial	ON/OFF(☞) + [SPEED] + † or [REDIAL](☎) (This case is available only for CO line call.) [REDIAL](☎) + [ON/OFF](☞)	
Station Program Recovery	ON/OFF(☞) + [FUNCTION] + 2 + 5	
Wake-Up Call	Set function	ON/OFF(☞) + [FUNCTION] + 4 + 1 + Time(hh:mm) + (# for permanent use) + [FUNCTION]
	Reset function	ON/OFF(☞) + [FUNCTION] + 4 + 2 + [FUNCTION]

* LDK-24/100/300/300E

FEATURE	INPUT KEY	
Call Transfer	(During a call) [TRANS] + STA # + ON/OFF(☞)	
Call Waiting/Camp On	ON/OFF(☞) + STA # + (if busy tone is heard) T	
Call Back	ON/OFF(☞) + STA # + [CALL BACK]	
Attendant Call	ON/OFF(☞) + 0 or ON/OFF(☞) + 9	
Paging	Internal Zone	ON/OFF(☞) + 5 + digit (☞ Refer to '5.2.2. Paging'.)
	Internal All Zone	ON/OFF(☞) + 5 + 4 + 3
	Meet-me Page	ON/OFF(☞) + 5 + 4 + 4
	External Zone 1	ON/OFF(☞) + 5 + 4 + 5
	External Zone 2	ON/OFF(☞) + 5 + 4 + 6
	External Zone 3	ON/OFF(☞) + 5 + 4 + 7
	External All Zone	ON/OFF(☞) + 5 + 4 + 8
All Zone	ON/OFF(☞) + 5 + 4 + 9	
DND (Do Not Disturb)	ON/OFF(☞) + 5 + 5 + 3	
Call Forward	Follow Me	ON/OFF(☞) + 5 + 5 + 4 + 0 + STA # (only the station which has its password can activate this function)
	Unconditional	ON/OFF(☞) + 5 + 5 + 4 + 1 + STA # / Intercom Group # / # (for VMIB)
	Busy Calls	ON/OFF(☞) + 5 + 5 + 4 + 2 + STA # / Intercom Group # / # (for VMIB)
	No Answer Calls	ON/OFF(☞) + 5 + 5 + 4 + 3 + STA # / Intercom Group # / # (for VMIB)
	Busy/No Answer Calls	ON/OFF(☞) + 5 + 5 + 4 + 4 + STA # / Intercom Group # / # (for VMIB)
	Station Off-net (Unconditional)	ON/OFF(☞) + 5 + 5 + 4 + 5 + SPD BIN #
	Station Off-net (No-Answer)	ON/OFF(☞) + 5 + 5 + 4 + 6 + SPD BIN #
DND(toggle)/Call Forward Cancel	ON/OFF(☞) + 5 + 5 + 9 or 5 + 5 + 3/ ON/OFF(☞) + 5 + 5 + 9 or 5 + 5 + 4 + #	
Call Parking Locations	ON/OFF(☞) + 6 + digit (LDK-300/300E: 01~19, LDK-100 : 01~10, LDK-24: 01~08)	
Call Pilot Number	ON/OFF(☞) + 6 + digit (LDK-300/300E: 20~67, LDK-100 : 20~34, LDK-24: 20~29)	
Pick Up	Group Call Pick Up	ON/OFF(☞) + 5 + 6 + 6
	Direct Call Pick Up	ON/OFF(☞) + 7 + STA #
VMIB	Record Greeting	ON/OFF(☞) + [FUNCTION] + 6 + 1
	Current Date & Time Prompt	ON/OFF(☞) + [FUNCTION] + 6 + 2
	Station Number Prompt	ON/OFF(☞) + [FUNCTION] + 6 + 3
	Station Status	ON/OFF(☞) + [FUNCTION] + 6 + 4
	Record Paging Message	ON/OFF(☞) + [FUNCTION] + 6 + 5
	Delete Greeting	ON/OFF(☞) + [FUNCTION] + 6 + 6
	Delete Paging Message	ON/OFF(☞) + [FUNCTION] + 6 + 7
Universal Night Answer	ON/OFF(☞) + 5 + 6 + 9	
CO Line Access	ON/OFF(☞) + 8 + digit (LDK-300/300E : 01~72, LDK-100 : 01~24, LDK-24: 01~08)	
Individual CO Line Access	ON/OFF(☞) + 8 + 8 + digit (LDK-300 : 001~200, LDK-300E : 001~400, LDK-100 : 01~40, LDK-24: 01~12)	
Station Speed Dial	ON/OFF(☞) + [SPEED] + digit (000~099)	
Redial	Saved Number	ON/OFF(☞) + [SPEED] + #
	Last Number	1. ON/OFF(☞) + [SPEED] + T or [REDIAL](☞) (This case is available only for CO line call.) 2. UP/DOWN] (▼ or ▲) 3. HOLD
Last Tel. Number Display	ON/OFF(☞) + [SPEED] + T	
Saved Tel. Number Display	ON/OFF(☞) + [SPEED] + #	
Wake-Up Call	Set function	ON/OFF(☞) + [FUNCTION] + 4 + 1 + Time(hh:mm) + (# for permanent use) + [FUNCTION]
	Reset function	ON/OFF(☞) + [FUNCTION] + 4 + 2 + [FUNCTION]
Authorization Code (Password)	Register	ON/OFF(☞) + [FUNCTION] + 3 + 1 + Password (5digits) + [FUNCTION]
	Change	ON/OFF(☞) + [FUNCTION] + 3 + 2 + The current Password (5digits) + New password + [FUNCTION]

FEATURE	INPUT KEY	
Temporal Station COS Change (a password is necessary for this function)	Change	ON/OFF(☞) + [FUNCTION] + 2 + 1 + [FUNCTION]
	Recovery	ON/OFF(☞) + [FUNCTION] + 2 + 2 + The current Password (5 digits) + [FUNCTION]
Programming User Custom Message	ON/OFF(☞) + [FUNCTION] + 5 + 2 + Input Message(within 23 characters) + [FUNCTION]	
Pre-Selected Message Display	ON/OFF(☞) + [FUNCTION] + 5 + 1 + Digits(00~19, #) + [FUNCTION]	
Programming A Name Into Display	ON/OFF(☞) + [FUNCTION] + 7 + 4 + Station Name + [FUNCTION] + ON/OFF(☞)	
Call-by-Name	ON/OFF(☞) + [SPEED] + [SPEED]	
Save Last Tel. Number	(During a call) [SPEED] + [SPEED]	
Entering CLI Message Display	ON/OFF(☞) + [CALL BACK] + [UP/DOWN] (▼ or ▲)	
Clear CLI Message Display	ON/OFF(☞) + [CALL BACK] + [UP/DOWN] (▼ or ▲) + [FLASH](C/R)	

2. Function Short-Key Table related to *The Wireless Terminal Feature*

- To enter the programming mode, press [MENU(UP or DOWN)] button.

FEATURE	INPUT KEY	
Subscription	5 + 1 + [UP/DOWN] (▼ or ▲) + AC code + [OK] + [OK]	
Local Desubscription	5 + 2 + PIN code + [OK] + [UP/DOWN] (▼ or ▲) + [OK]	
Ring/Vibrator	1 + 1 + [UP/DOWN] (▼ or ▲) + [OK]	
Internal Call Ring Rhythm Select	1 + 3 + 1 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
External Call Ring Rhythm Select	1 + 2 + 1 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Internal Call Ring Volume Adjust	1 + 3 + 2 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
External Call Ring Volume Adjust	1 + 2 + 2 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Buzzer Volume Adjust	1 + 5 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Key Volume Adjust	1 + 4 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Charger Answer Select	1 + 6 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Headset Ring Select	1 + 7 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Auto Answer Select	1 + 8 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Key Lock (Toggle)	2 + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Select System	3 + [UP/DOWN] (▼ or ▲) + [OK]	
Review Call Log	4 + [OK] + [UP/DOWN] (▼ or ▲) + [OK] or [FLASH](C/R)	
Memory Clear	5 + 3 + 1 + [OK]	
Reset Handset	5 + 3 + 2 + [OK] + PIN code + [OK]	
Change PIN Code	5 + 4 + The current PIN code + [OK] + New PIN code + [OK]	
Direct Call(Enable)	6 + Select "ON" + [OK] + Telephone number + [OK]	
Direct Call(Disable)	6 + Select "OFF" + [OK]	
Phonebook	Save	7 + 2 + Number + [OK] + Name + [OK] + [UP/DOWN] (▼ or ▲) + [OK]
	Use	7 + 1 + [UP/DOWN] (▼ or ▲) + ON/OFF(☞) or [OK]
	Delete	7 + 3 + [UP/DOWN] (▼ or ▲) + [OK]
Local Redial	1.	[REDIAL](☎) + [UP/DOWN] (▼ or ▲) + ON/OFF(☞)
	2.	[REDIAL](☎) + [REDIAL](☎) + ON/OFF(☞)

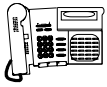
! Notice

- TRANS** : Press  button shorter than 1 second.
- FUNCTION** : Press  button longer than 1 second.
- SPEED** : Press  button shorter than 1 second.
- CALL BACK** : Press  button.
- HOLD** : Press  button longer than 1 second.

Appendix. C The LCD Messages Related To a Call

Slettet: -----Sideskift-----

The followings describe messages displayed on the LCD of an attendant station and the wireless terminal in Talking Mode.



At the DKTU,

(1) NO RESPONSE CT

Description : After key system requests a call to the wireless terminal, if there is no response from the wireless terminal, this message is displayed on the LCD of DKTU.

- A. Called station : Power-off
- B. Called station : Out-of-svc area

Formatert

(2) NO CHANNEL

Description : There is not enough system resource. If the message is displayed frequently on the LCD of DKTU, the system should be installed more.

- There is no available RF channel ; WTIB side
 - The reason is brought by WTIB.
 - All RF channels are fully used.
- There is no available PCM Hi-way ; MPB side
 - The reason is brought by MPB.

Formatert

(3) INVALID

Description : When a station not subscribed is called. The reason is brought by MPB.

Formatert

(4) NO RESPONSE : STA xxx

Description : After key system requests a call to DKTU, if there is no response from the wireless terminal, this message is displayed on the LCD of DKTU.

- When a called DKTU does not respond;
 - The reason is brought by MPB.
 - It is not applicable to attendant station.

Formatert

STOP!

- The attendant station is not applicable for this case. When time-out is occurred, the call is released.

(5) RELEASED : STA xxx

Description : After key system requests a call to the wireless terminal, if there is no response from the wireless terminal, this message is displayed on the LCD of DKTU.

- When a called WHTU does not respond;
 - The reason is brought by WTIB.

Formatert

(6) DESUB. Fail

Description : While the wireless terminal is desubscribed at the attendant station, the desubscription processing is really failed in MPBCOMM, DPS or WHTU.

Formatert



At the Wireless Terminal,

(1) NO CHANNEL

Description : There is not enough system resource. If the message is displayed frequently on the LCD of DKTU, the system should be installed more.

- There is no available RF channel.
- There is no available PCM Hi-way ; MPB side
- The reason is brought by MPB.

Formatert

(2) INVALID

Description : When a not subscribed station is called. The reason is brought by MPB.

Formatert

(3) NO ANSWER STA xxx

Description : When a call made to the wireless terminal, there is no response from the wireless terminal in the below case.

- Called station : When there is no answer for ringing,
- The reason is brought by MPB.

Formatert

(4) NO RESP. STA xxx

Description : When a call made to the wireless terminal, there is no response from the wireless terminal in the below case.

- Called station : Power-off
- Called station : In Out-of-Service area

Formatert

(5) DESUB. Fail

Description : While the wireless terminal is desubscribed at the attendant station, the desubscription processing is really failed in MPBCOMM, DPS or WHTU.

Formatert

