

LGGAP Mode Manual

Model : GDC-345H

Revised History

Date	Issue	Contents of Changes	Software Version
2004-06-21	1.0	Initial Release	Later than 2.0C

- This manual can be modified or updated due to production enhancement without prior notice.
- Unauthorized copy or partial plagiarism is prohibited by law.

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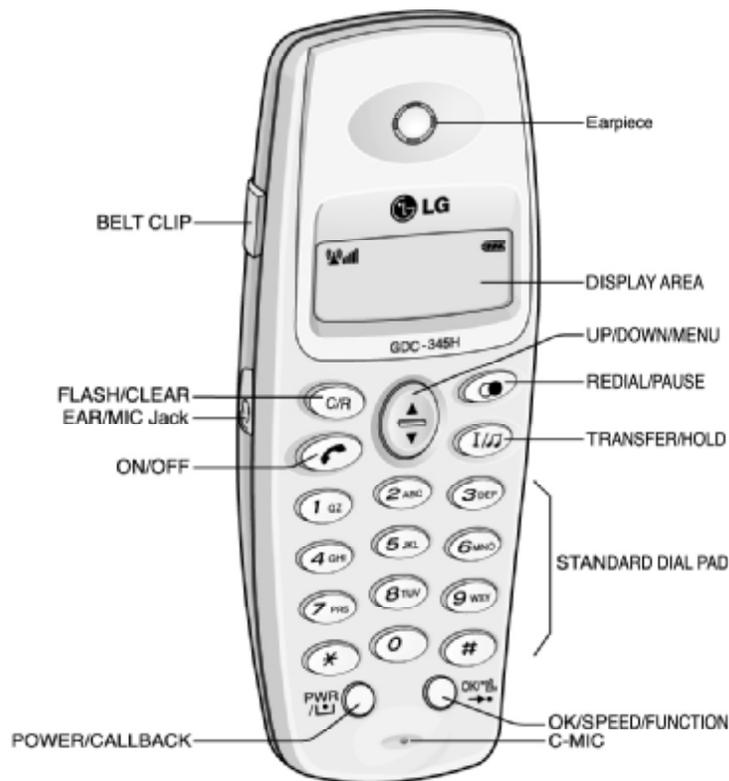
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1. General

1.1. Purpose

This manual is for installer who needs service GDC-345H in detail. The installer is required to read "LDK-24 Installation & Maintenance Manual" and "GDC-345H User Guide" prior to this manual. Not proper operation against this manual cause critical damage to GDC-345H in hardware. LGE strongly recommend that you should try to operate part you know exactly its meaning and result.

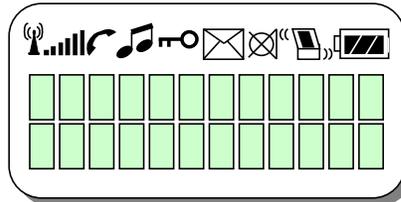
1.2. Looks



2. User Interface

2.1. LCD display

The LCD of GDC-345H has 8 icons and 2 x 12 dot matrix. The LCD shows various wireless states and displays visual feedback for the actions performed by user.



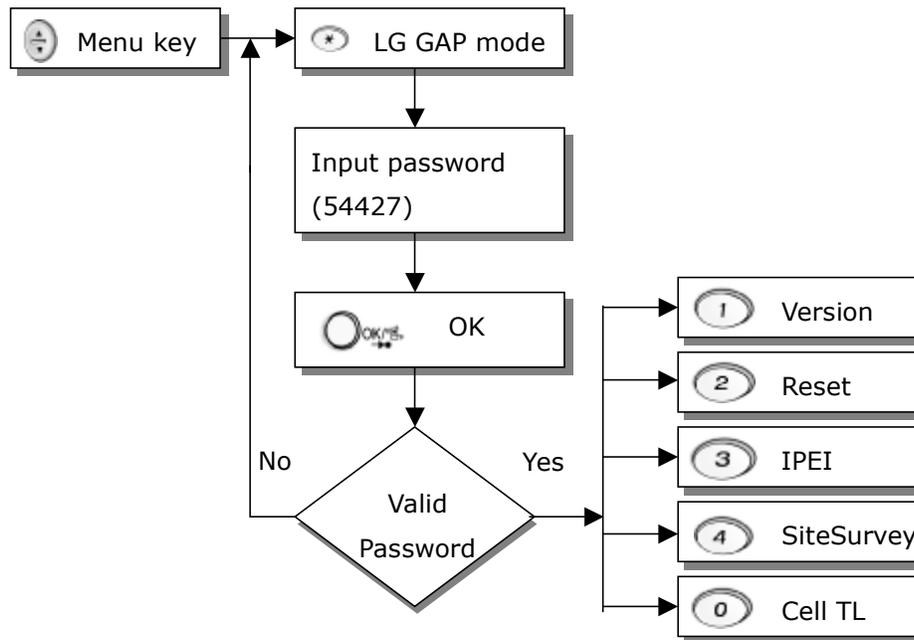
Icon	Description
	Antenna icon and RSSI icon
	Phone icon
	Tone Mode icon
	Key Lock icon
	Message icon
	Mute icon
	Silent/Vibrator Mode icon
	Battery icon

2.2. Buttons & Functions

Button Icon	Function	Description
	[FLASH/CLEAR]	<ul style="list-style-type: none"> - Pressing longer than 1 second: All digits are cleared. - Pressing shorter than 1 second: 1 digit is deleted backward. - When using local functional operation: Function cancel (It should be pressed longer than 1 second)
	[OK/SPEED/FUNCTION]	<ul style="list-style-type: none"> - Menu Mode: Pressing shorter than 1 second: Select / Finish a local function (OK).
	[POWER/CALL BACK]	<ul style="list-style-type: none"> - Power-on - Pressing longer than 1 second : Power Off
	[UP/DOWN/MENU]	<ul style="list-style-type: none"> - When using local functional operation : Start a local function, upper / lower scroll - Navigate and select among function items in a menu or submenu
0~9		- Standard dial button

3. Operating Procedure

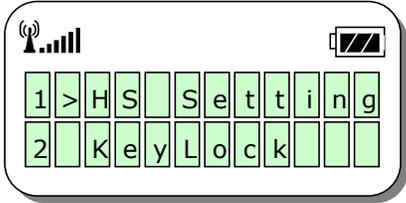
This chapter describes the detail "Factory Mode" operation of GDC-345H by LCD displays.



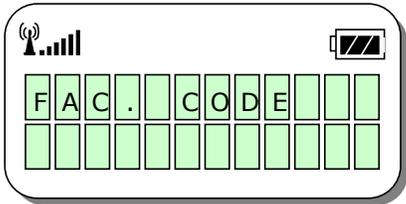
[Figure.1 LGGAP Mode Menu Tree]

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

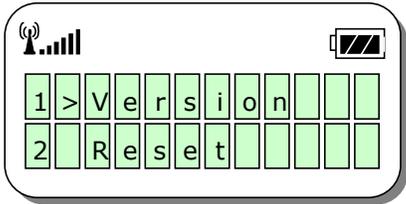
3.1. Entering



It can be possible to enter into 'LGGAP mode' through the main menu. Please, for detail for main menu, refer to GDC-345H User Guide. Press MENU(UP(▲) or DOWN(▼)) button, then main menu will be displayed as left. Press  button to enter into 'LGGAP Mode'.



When LCD is displayed like left, input password to enter into LGGAP mode. The FAC. CODE is '54427'. After input '54427', press OK button.



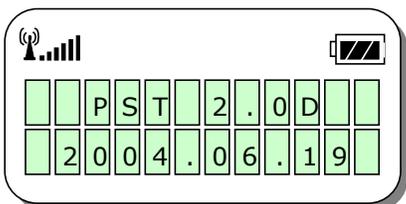
In case of successfully entering into 'LGGAP mode', LCD is displayed as left. If the password is not exact, LCD returns to main menu. You can select a submenu alternative of direct selection or scroll selection. When you use direct selection, press directly number button refer to above menu tree. When you use scroll selection, press repeatedly MENU(UP(▲) or DOWN(▼))

button until the cursor(>) goes to where you want to select. And press OK button. Then, it enters into submenu you want.

3.2. Exiting

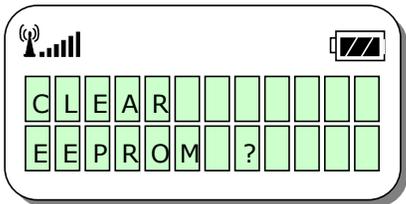
To exit from 'LGGAP mode' or any submenu, press 'C/R' button repeatedly until 'Idle State' is displayed. Or, press PWR button more than 1 second.

3.3. Version



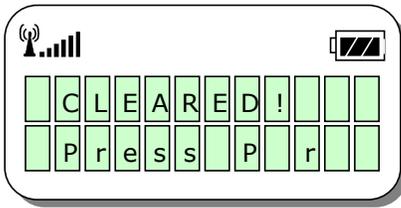
This submenu shows you the software version of GDC-345H and creation date. The version and date may different from that of left.

3.4. Reset



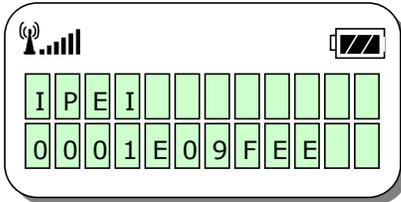
This submenu enables you to clear the EEPROM of GDC-345H. If you want initialize all data of EEPROM, press OK button. Else press C/R button to cancel.

If once clearing is started, you cannot abort. And all data will be deleted except data related to hardware control parameter. Therefore, you have



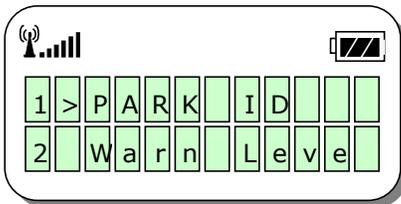
to take care to select sufficiently. It takes about 1 minute for clearing. In case of losing PIN code, this submenu is helpful for you.

3.5. IPEI

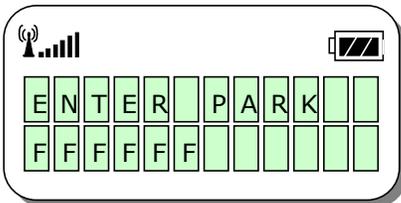


This submenu shows you IPEI(International Portable Equipment Identity) of this GDC-345H.

3.6. SiteSurvey



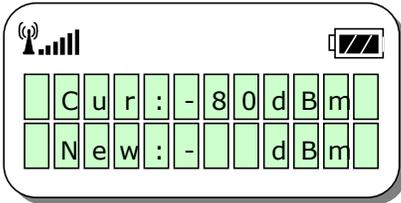
This submenu makes this GDC-345H to operate as GDC-345TH CRS (Cell coverage Region Survey) tool for cell planning. To exit from this mode, press C/R button until 'Idle state' is displayed.



In the submenu '1 PARK ID', you have to enter the same PARK ID as that of GDC-345TB that you want to lock to. If a PARK ID is entered differently from that of GDC-345TB that is the Fixed Part of CRS (Cell coverage Region Survey) tool, GDC-345H doesn't operate properly. If you enter a wrong PARK ID you can delete it by C/R button. If you press the C/R button longer than one second

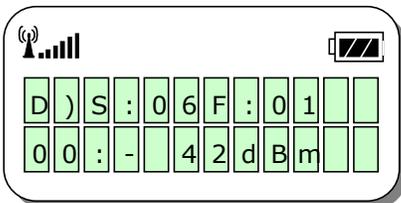
you can erase the whole entered digits and if for short pressing you can delete one by one. If you the PARK ID you already entered, you can see a RFPI number to which the PARK ID converted. And you can verify the RFPI number with PARK ID viewing the Appendix A. available PARK table of the GDC-345 CRS tool manual.

In the submenu '2 Warn Level', you can determine a lower RSSI warning level. This helps an installer notice a cell-coverage region.



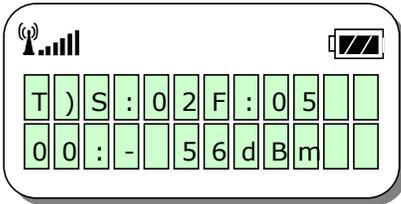
For instance the value is determined as -80dBm and GDC-345H goes farther beyond the region of which RSSI level is about -80dBm, then the warning tone is generated. With this warning tone, an installer can easily notice the cell-coverage region. You can choose any value from 60 to 90 and the initial default RSSI warning level is -

80dBm. If this value is determined at smaller than -80dBm, the warning tone will be heard in the closer distance from the GDC-345TB and versa.



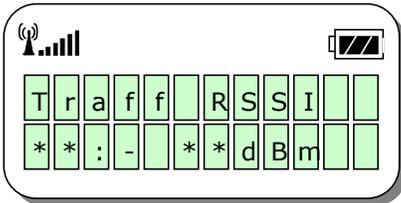
In the submenu '3 Dummy', you can measure the

RSSI level of dummy channel. Dummy channel RSSI measurement surveys the strength of received dummy channel with which GDC-345TH is in synchronization. The second line of LCD displays the dummy measurement. First and second column of third line indicates the RPN(Radio fixed Part Number) of synchronized GDC-345TB.



In the submenu '4 Traffic', you can measure the RSSI level of traffic channel. Traffic channel RSSI measurement surveys the strength of received traffic channel with which GDC-345TH is in connection. The second line of LCD displays the traffic measurement. First and second column of third line indicates the RPN(Radio fixed Part Number) of connected GDC-345TB. The RPN of GDC-345TB is fixed at (0 0). And the last of third line displays the RSSI level of traffic channel. For the most part measured level of traffic and dummy channel are nearly alike.

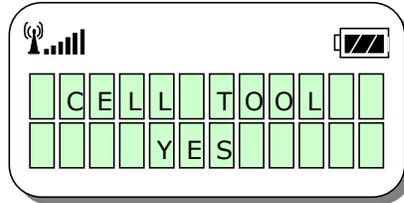
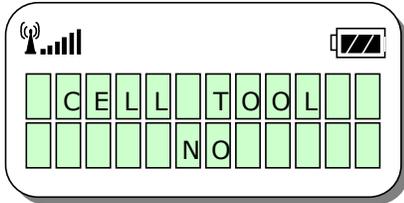
The nominal decision level by which cell-coverage boundary is settled is -80 dBm. But for better voice quality it is safe to determine the cell-coverage boundary by -70 dBm.



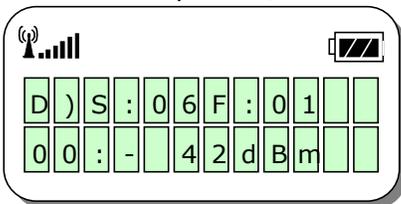
When GDC-335TH loses the connection with GDC-345TB, one of the left LCD messages is displayed. And when the measured RSSI value is lower than the already entered RSSI warning level, warning tone is generated periodically.

3.7. Entering Cell Tool Mode

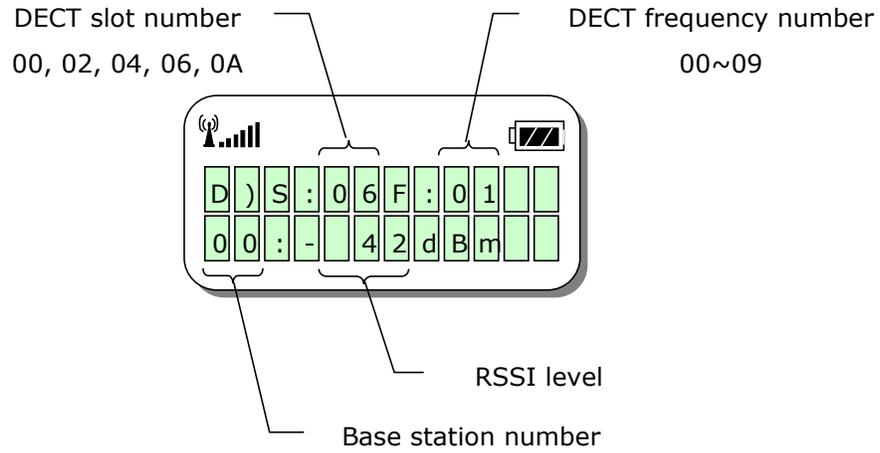
This submenu enables you to measure the signal strength of DECT base station. After entering this submenu, you can monitor the detail situation roaming around DECT base stations you installed. This function is helpful to survey the cell coverage of your base station. This function is available after subscribing to LDK-24 system.



LCD displays the current status of Cell Tool mode. Press MENU(UP(▲) or DOWN(▼)) button to enable until LCD is changed from 'NO' to 'YES'. And press OK button to confirm. And press C/R button repeatedly until LCD returns to idle state.



In the Cell Tool Mode, LCD displays as left. The meaning of values is described at figure.2. To exit cell tool mode, turn off and on GDC-345H or enter into this submenu to disable.



[Figure.2 Cell Tool Mode LCD meaning]