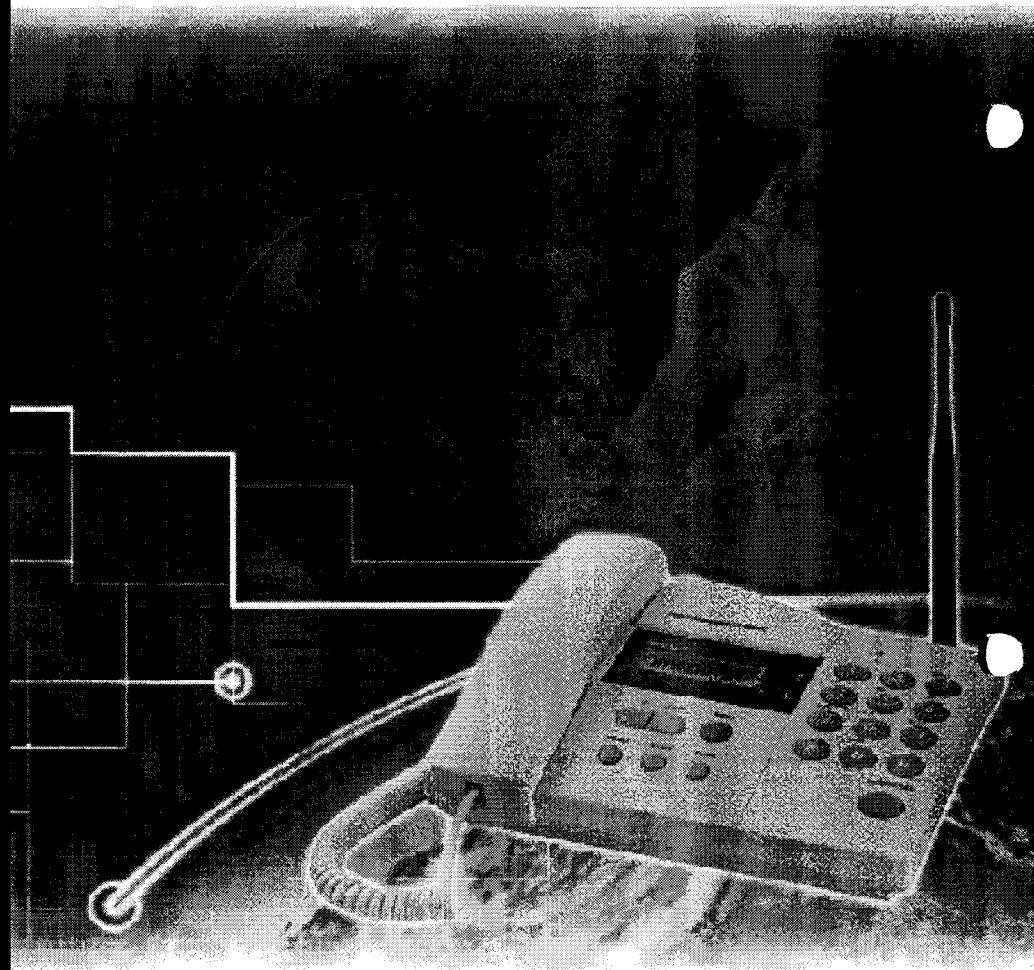Wireless Local Loop

Fixed Wireless Termial

HWP130& 230 **User's Guide**

•HYUNDAI

Wireless Local Loop

Fixed Wireless Termial

HWP130& 230 **User's Guide**

•YUNDAI

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1. Introduction

The WLL (Wireless Local Loop) terminal is designed to provide users with full range of communication services in CDMA (Code Division Multiple Access) networks. Before using the product, please read carefully this chapter.

HWP -130/230 Main Features
- -IS-95B support
  - Data rate: 64kbps (max)
  - Backward compatibility
  - New Soft Handoff Algorithm
  - Enhanced Hard Handoff
  - True IMSI (International Mobile Subscriber Identification)
- -. IS-707 Data Capability
  - PC Fax Transmitting/Receiving
  - Modem Origination/Termination
- -. Internet Access
- -. Speed Dial
- -. Emergency Call Hold
- -. Hot Line
- -. Alarm Reminder
- -. Battery Backup
- -. Line Signal Tone
  - Dial Tone
  - Warning Tone
  - Howler Tone
- -. Security
- -. OTASP(Over-the-Air-Service Provisioning)/OTAPA(Over-the-Air-Parameter Administration)
- -. SMS (Short Message Service)
  - VMS (Voice Message Service)
  - Page Service
  - Message Service
- -. Vocoder Select
  - 8K QCELP (Qualcomm Code Excited Linear Prediction)
  - EVRC
  - 13K QCELP
- -. Call Waiting *
- -. Call Forwarding*
- -. Call Transfer *
- -. Three-way Calling*

* : System dependant

1.1 Notices for Using

- Do not disassemble or alter the WLL terminal on your own.
- Do not touch antenna during the call.
- Do not hold the WLL terminal in hot or moist places. Be careful not to moisten the terminal or to spill any liquid on it. This may cause irrevocable damage.
- Avoid terminal shocks and vibrations. Store the terminal in a safe place.
- Do not use the terminal near to explosives or in places where combustible liquids are used.
- Do not wipe the WLL terminal with a chemical solution like solvent or thinner.
- Switch off the WLL terminal and remove the SMPS (Switch Mode Power Supply) when you do not use the terminal for long.
- The backup battery can be operated after having being charged long enough (more than 30 hours). Otherwise it can discharge.
- The backup battery can be used only when the power is on.

1.2 Checking the Package

Thank you for buying our product. Please check whether the product package contains the following accessories:

* WLL Phone

* Accessories
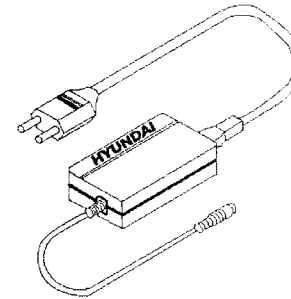
- Switch Mode Power Supply (SMPS) Unit -   - Wall Bracket -

- User's Manual -   - Screws -

1.3 Name and Function of Each Part

Antenna

LCD Screen

POWER LED

Hook Switch

FIXED WIRELESS TERMINAL

Dial Button

[UP]/[DOWN] Button

[MENU] Button

CALL LED

[STORE] Button

[SEND]/[REDIAL] Button

[RECALL] Button

[CLEAR] Button
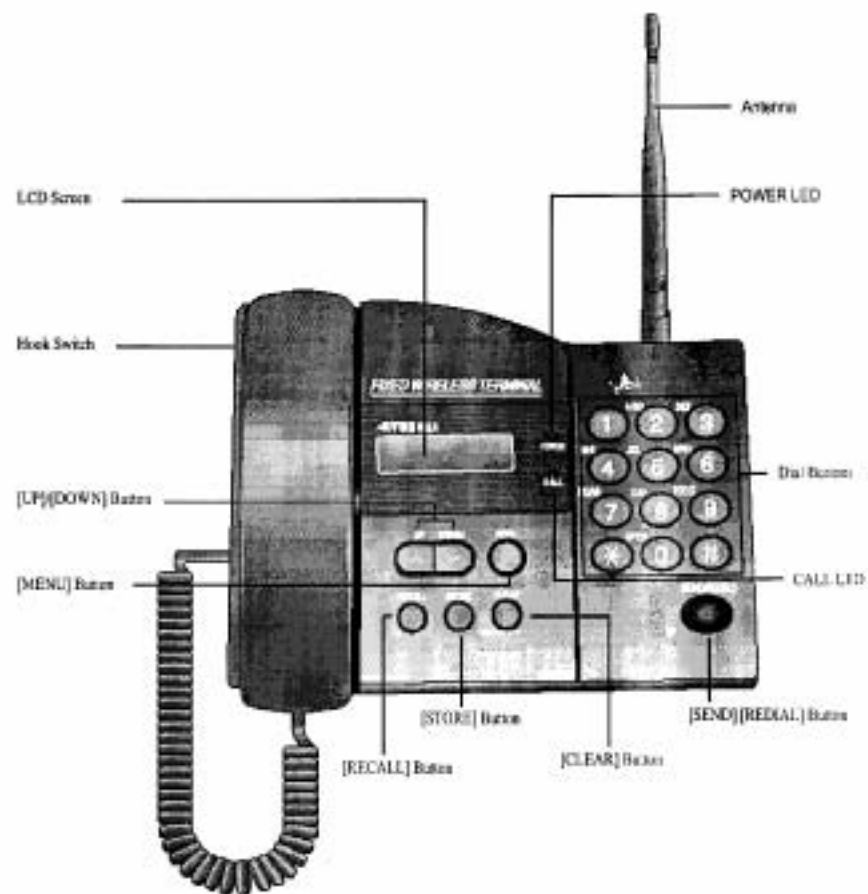
- Mounting Plate -
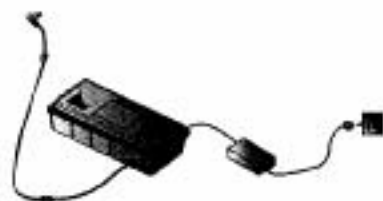
- External Battery -

RSSI LED

RSSI LED goes "ON", when the state of trans-ceiving is "GOOD".

RSSI LED goes "ON and OFF" at the interval of 1 second, when the state of trans-ceiving is "NOT GOOD".

RSSI LED goes "ON and OFF" at the interval of 15 seconds, when the state of trans-ceiving is "NO SERVICE".
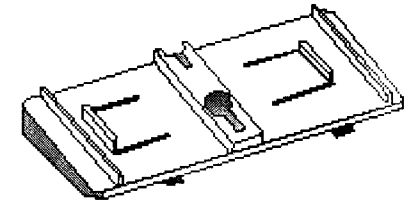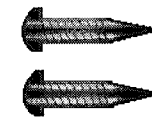
POWER LED

Indicates whether the power is supplied by external SMPS or by internal battery. The LED goes' ON" when external power is supplied. When the terminal operates on internal backup battery, the LED goes' OFF".

Hook Switch

Turns call on and off . This switch starts and ends working with WLL terminal.

DC Jack

Connects power supply from the SMPS to the WLL terminal.

Serial Port

A port through which data services (Modem, PC Fax, Internet access) are available.

Power Switch

Turns the power supply to WLL terminal on and off.

Buttons

DIAL

Input telephone numbers or numeric characters (0-9, *, #), and choose menu items.

UP/DOWN

Retrieve stored telephone numbers, adjust beep volume and ringer loudness when the phone is ringing, move across menu items, and adjust handset loudness during the call.

FUNCTION

Input menu.

STORE

Store the settings and menu.

REDIAL

Make a call to the last dialed telephone number.

RING

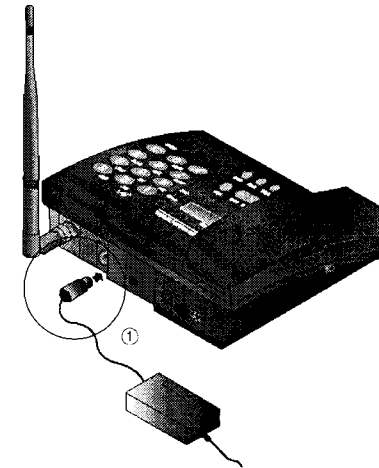Select ring sound from 10 types of ring.

SEND

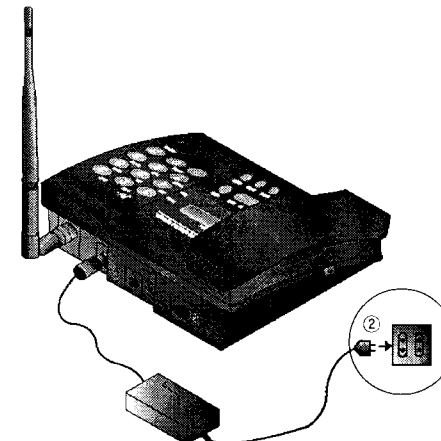Make call attempt in the off-hook state.

1.4 Installing WLL Terminal (INSTALLING ANTENNA)

General Observations

① Connect DC jack as shown below.

② Connect the SMPS plug to the outlet.
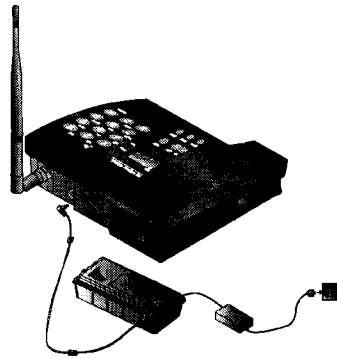
③ Turn on the power switch as shown on the picture. The WLL terminal turns on and a beep sound is heard.
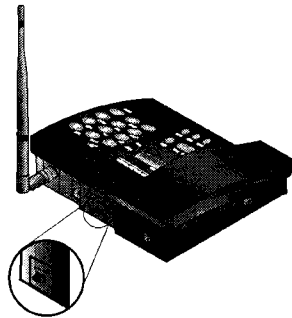
④ After initialization, the WLL terminal goes to the waiting mode.

Note : RSSI (Received Signal Strength Indicator) refers to the strength of received radio signal. The larger is the value, the better is the quality of speech (indicator values range from 1 to 5)

Wall Bracket Mounting

① For the concrete wall, place the mounting plate where the WLL terminal should be installed, and drill two according to +' marks.

Mounting Plate

Wall

34.0mm

φ 3.0mm

25.0mm
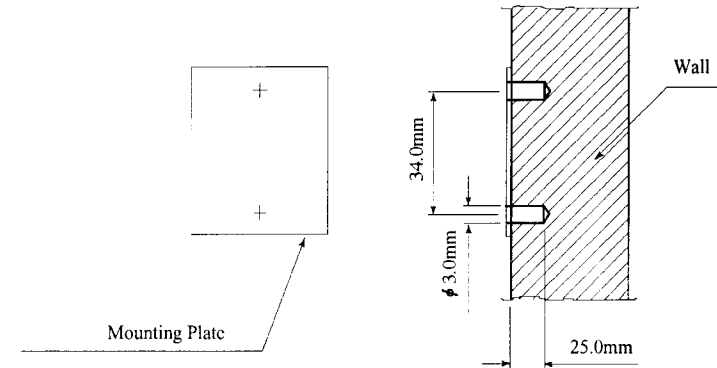
② Screw up as shown in the figure below.

Wall

34.0mm
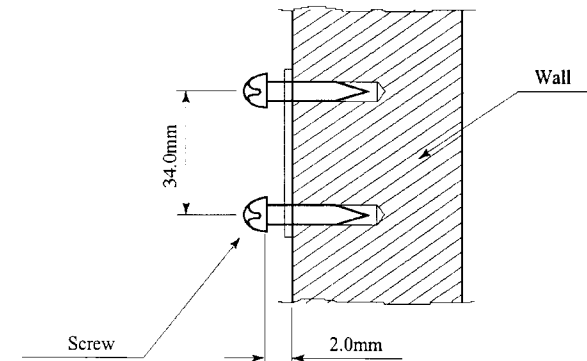
Screw

2.0mm

● For the wooden wall, screw up the plate directly to the wall.

The distance between the screw head and the wall is to be 2.0mm as shown on the figure above.

③ Insert the parts A1, A2 of the wall bracket into the WLL terminal body, and gently push in the parts B1, B2.
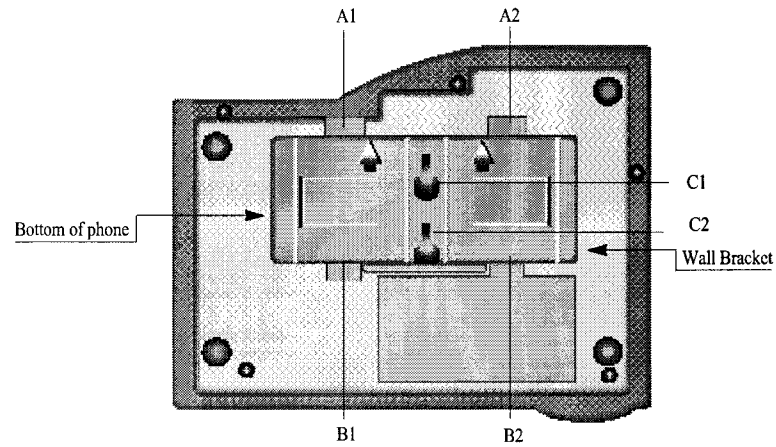
④ Insert screws into the C1, C2 notches, and pull the body downward. As this takes place, make sure about the distance between the screw head and the wall, lest the body hangs askew.
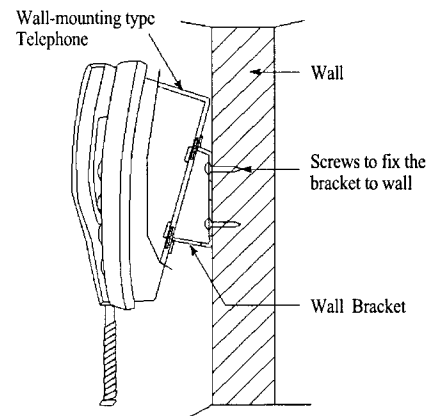
Note : If you need better speech quality, you can install optional external panel antenna. (For inquires please contact your local distributor.)

Note : The WLL terminal is fitted with a backup battery, which enables terminal operation in the absence external power supply.
If the external power supply through the SMPS fails, the WLL terminal can operate from the backup battery for about 70 hours in the waiting mode and for 2 hours in the call forwarding mode.

External Antenna

① Disconnect antenna from the phone

1.5 LCD Display

The LCD display shows the terminal operating mode, RSSI (Received Signal Strength Indicator), the state of power.

1.5.1 Display for Power On
Indicate power LED ON, when the power is supplied by external SMPS.
(Indicate power LED OFF, when the power is supplied by internal battery. If the voltage of battery is low (below 4.75V), the warning tone will be heard at the interval of 15 seconds).

1.5.2 Display for Weak RSSI (Received Signal Strength Indicator)
RSSI LED goes "ON", when the state of trans-ceiving is "GOOD".
RSSI LED goes "ON and OFF" at the interval of 1 second, when the state of trans-ceiving is "NOT GOOD".
RSSI LED goes "ON and OFF" at the interval of 15 seconds, when the state of trans-ceiving is "NO SERVICE".

2. Using Basic Functions

2.1 Call Process & Call Process by Special Function

2.1.1 Call press

- Pick up the handset. You will hear the dial tone. (In the" No Service" state however, the warning tone is heard at the interval of 0.5 second.)
- In the' No Service" state, you cannot make calls.
- Pick up the handset and press [REDIAL] button. The call will be made to the last dialed number.
- Dial the telephone number and press [SEND] button to make a call.
- If you do not [SEND] button after dialing the number, the call will be made automatically 6 seconds later.
- Speak on the telephone.
- Place the handset on-hook to terminate the call.

2.1.2 Call process by special function

- You can make a phone call by special function.(Special Dial, Emergency Dial, Hot Line Dial)

Note : You can adjust the handset volume using [UP]/[DOWN] buttons during the call.
If you are trying to make a call in "Outgoing Lock" state, error tone(beep tone) will be heard and you can't make a call.

2.2 To Receiving an Incoming Call

2.2.1 In on-hook state

- If the telephone starts ringing, Pick up the handset.
- Speak on the telephone.
- Place the handset on-hook to terminate the call.

2.2.2 In off-hook state

- If a call comes when you dial the number, the telephone starts ringing.
- Press [SEND] button to accept the call.
- Speak on the telephone.
- Place the handset on-hook to terminate the call.

Note : 1) The ringer has operation priority. Hence, if there is an incoming call when you work with [REDIAL] or [FUNCTION] in the on-hook state, the current operation is interrupted by the ringing singal.
2) If the ringer comes into action in the off-hook state, you can pass [SEND] button to speak on the telephone.
3) During a call, you can adjust the handset volume using [UP]/[DOWN] button.

2.3 To Last Number Redial (Redial Function)

- You can easily make a call to the last dialed telephone number.
  1. Pick up the handset and press [REDIAL] button.
  2. When the call is connected, you can speak on the telephone.
  3. Place the handset on-hook to terminate the call.