

LSP-500R USER GUIDE

Please read this manual carefully before operating your set. Retain it for future reference.

P/N : MMBB



1 Introduction

Congratulations on your purchase of the LG Fixed Wireless Terminal that has been designed to operate on the latest digital mobile communications technology, Code Division Multiple Access (CDMA). This CDMA digital technology has greatly enhanced voice clarity and can provide various advanced features.

The terminal enables the normal operation and direct connection of standard telephone equipment into the cellular network. The standard unit provides:

- ▶ Handset
- ▶ Data Port for repair(RJ-45 Port)
- ▶ AC Power supply with barrel plug connector
- ▶ Support Dial tone
- ▶ Touch tone(DTMF) or Pulse Dialing
- ▶ Voice-Mail Notification ring alerts you to new voice-mail messages
- ▶ A signal light(LED) to indicate the status of the unit
- ▶ Dipole Antenna

Some features can not be supported by service provider's equipment status.

For instance, the following features may not be supported:

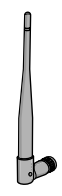
- ▶ Speed Dial
- ▶ Emergency Call
- ▶ Hot Line Call
- ▶ Alarm
- ▶ Outgoing Call Lock
- ▶ Quick Dial Option with "*"

Other features as determined by your service provider.

1.1 Component List



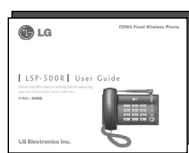
< Terminal >



< Dipole Antenna >



< AC/DC Power Adapter >



< User Guide >

1.2 Front, Rear View of the Terminal



< Figure 1 >

ITEM	DESCRIPTION
(1) LEDs	Indicate the status of the unit
(2) DC IN 5V	AC/DC Power Adapter
(3) Battery Switch	Battery On/Off Switch
(4) DATA Port (RJ-45 Port)	Connecting Port for Repair(RS-232C)
(5) Antenna Connector	Connecting Port for TNC Antenna

1.3 LED Indicator



COLOR	Operating Condition
GREEN-solid	Good Signal
ORANGE-solid	Poor Signal
OFF	No Service Area
GREEN - blink	Voice Message is received / Incoming call alert / Alarm time Menu mode
RED-blink	Battery Charging
RED-solid	Low Battery

< Table 1 >

1.4 Installation

You should follow each step carefully as shown below in order to guarantee proper operation of CDMA Fixed Wireless Telephone.

STEP I. Check Components

▶ Fixed Wireless Terminal is supplied with the following standard unit and accessories:

1. LSP-500R Unit -1EA-
2. Dipole Antenna -1EA-
3. User Guide -1EA-
4. AC/DC Power Adapter -1EA-

▶ Please make sure that these components are present and check for evidence of shipping before you begin the unit installation.

▶ If components are missing or damage is found, contact your authorized LGE Service Center immediately.

STEP II. Place the Terminal

▶ Place the terminal on the stable flat secure surface area (desk, table, etc.).

Avoid direct exposure to the sunlight and damp areas.

▶ Read the SAFETY INFORMATION located at the first part of this document before you place the terminal.

STEP III. Connect Components

▶ Connect the Dipole antenna to the TNC connector located at the top side of the terminal.

If you have placed the terminal on the flat surface, position the antenna up side.

▶ Connect the battery cable to the DC battery connector at the side of the terminal.

- Remove the battery compartment cover.

- Connect battery to the connector.

- Replace the battery cover.

▶ Connect the AC power supply cable to the DC input port located at the side of the terminal.

STEP IV. Check LED Indicators

▶ When you followed the installation instruction STEP I to STEP III, please check the LEDs for normal operation.

▶ When DC power is fed at the first time, LEDs will operate as follows:

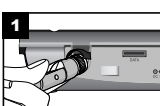
- During the first seconds, LED is ORANGE, if AC/DC power is applied.

- If receiving signal strength is strong enough, then LED is GREEN.

- If not, it is ORANGE or OFF.

1.5 Installation Steps

Please follow the below procedure to install the unit properly.



Connect the antenna to the TNC connector. Turn right.



Bend the antenna up right.



Connect the DC Power supply.

<Terminal Connection >

2 Basic Operations

2.1 Power On

1. If the LED Indicator is RED, battery is low.

2. When the terminal succeeded in getting the service, LED indicates the strength of the signal(Table 1).

Lifting handset on telephone, dial tone is heard and you can enter a phone number.

Note:

- Not entering any key for 15 seconds warning tone will be produced.
- While having maintenance request order or lock order from the system, neither dial tone nor busy tone is produced. Instead of them, there will be no sound and LED will be blinking with RED color simultaneously.

3. If the radio service is not available or radio signal is too weak to detect:
The LED is OFF. (No Service status)

2.2 Placing a Call

When lifting handset ("off hook"), the terminal determines whether cellular service is available.

If it is available, dial tone is produced and a number can be dialed normally. If phone service is not available, LED of the terminal will be OFF and no dial tone will be heard. If user presses "DIAL" button after dialed the number, the terminal makes a call immediately.

2.3 Receiving a Call

The telephone rings when an incoming call is detected. Pick up the handset and begin talking.

2.4 Ending a Call

When you have completed the call, place the handset back on telephone. Also you can hook flash more than about 1 second to end a call and place a new call without hanging up the handset.

2.5 Warning Tone after Remote Disconnect

A warning tone may be heard in the telephone after a remote party hangs up from a call, allowing another call to be initiated after hook-flash.

2.6 Emergency Call

When emergency call number is connected once, it will not be terminated unless the called party disconnects the call (Emergency Call Hold Service). Therefore even caller hangs up the telephone, the line will be still connected, so if the caller picks up the telephone again, he can continue talking. If emergency call is connected, cellular service is not supported. As long as your telephone is registered on a system, you can place a call to emergency number even if your telephone is locked or restricted. Please check the available emergency call number with your service provider.

2.7 Power Off

When you don't need to use terminal anymore, you should do power off before removing AC/DC adapter cable.

If you do terminal power off, Press Redial/Flash key for 2 seconds. If so, the terminal will LED off and stop all operations. Then you shall separate External Power jack from Terminal.

3 System Features

3.1 Redial/Flash

When the Redial/Flash button is pressed it will automatically allow:

1. For immediate dialing after a phone number has been dialed without connection.
2. The use of special cellular services which may be available in your cellular service area.

3.2 ROH (Receiver Off Hook)

If the telephone equipment remains "off-hook", meaning that the handset is left off of its cradle as it would be when you hang up, with no dialing activity for about 60 seconds, a ROH tone emits from the receiver for a period of 60 seconds.

This feature may be different or not by country specification.

3.3 System Features

Many cellular systems offer special services such as call waiting, call forwarding, etc. You can purchase these services from your cellular service provider.

There are certain dialing sequences to be earned, which vary from service provider to service provider. The service provider will provide the dialing instructions for your system.

Call Forwarding - An incoming call can be delivered to another telephone number programmed. Please contact your cellular service provider to use this feature.

Call Waiting - You can receive another incoming call during a call.

In this case, you will hear beep tone and then you can connect the second call holding the first call by entering a code required by cellular service provider. Your cellular service provider may require hook-flash (a quick, simulated "hang up") to answer the waiting call. Other providers may require entering the codes involving digits 1-9, *, and # to answer a waiting call.

Three-way Conference Calls - For three-way conference calls, a hook-flash transmits the SEND command. Please contact your cellular service provider for more information on using this service.

Example

- (1) Dial the first number and wait until connected:
 - (2) When connected, give hook-flash and dial the second number and give one more hook-flash to be connected:
 - (3) When the second call is connected, give hook flash to complete a 3-way conference call.
- Voice mail** - Use voice mail service in the same manner as you would on a regular telephone. If you have a new voice-mail message, The LED is blinking (0.5sec On / 0.5sec Off). Please contact your cellular service provider for more information on using Voice Mail or to change Voice-Mail Ring pattern.

4 Programming

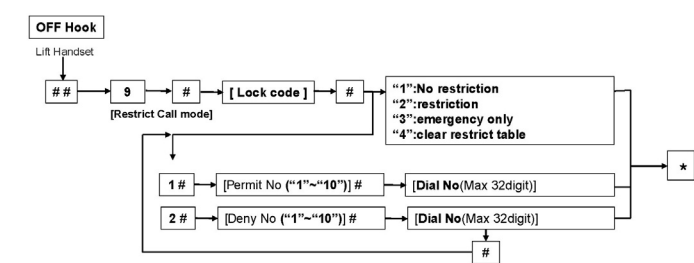
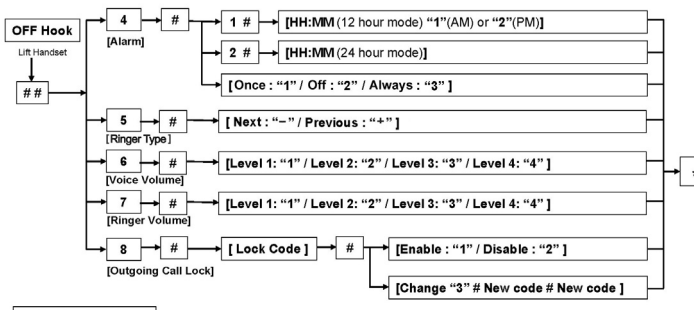
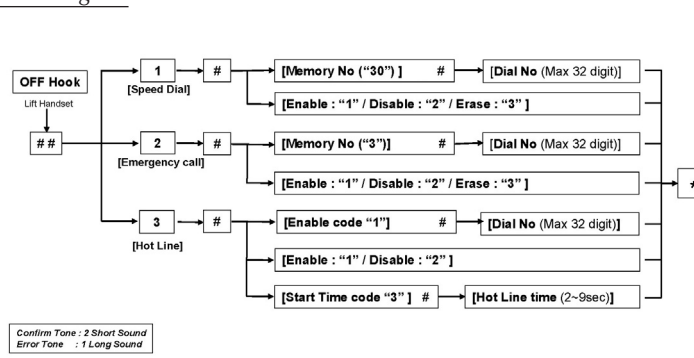
LSP-500R provides various convenience and various features to user. This chapter describes how to program these features and to use them. The followings are main features can be used:

- Speed Dial
- Emergency Call
- Hot Line Call
- Wake-up Alarm
- Conversation Voice Level
- Outgoing Call Lock
- Restrict Call
- ▶ Programming Instruction
 1. Lift Handset and press "*" key twice and you will hear the Menu Entering tone.
 2. Enter the field number (1 ~ 9).
 3. Press "*" key and you will hear confirmation tone.
 4. Enter sub-fields and their options.
 5. Press "*" key to save and you will hear confirmation tone.

Note:

- The LED activation or deactivation menu has different sequence.

4.1 Menu Diagram



5 Troubleshooting

In the event you are unable to place or receive telephone calls, first check the appropriate indication on the LED.

In case of no power, check the wiring connections between the power outlet and the terminal. Check for the appropriate service indication on the LED. If an adequate signal is not present, try different locations for the better signal reception.

This will verify the condition of the telephone equipment and the internal wiring of the telephone service to verify that it is working properly.

If the telephone system of wiring is not working properly, replace or repair the equipment as required. The unit will not function with equipment that requires data transmission.

Contact your service provider if either of the following condition is true:

- ▶ The terminal does not work and the LED indicates "No Service" and if changing the locations does not resolve the problem.
- ▶ The terminal does not work and the LED indicates "In Service".
- ▶ Power Supply - If the unit does not respond once plugged into a power supply:
 - Check that the AC power source.
 - Check that the Barrel Plug of the Power Supply is properly inserted into the terminal.
 - Check that the terminal Power Supply is properly plugged into the electrical outlet or power source.

Warning!

1. Only Authorized Service Personnel should remove the cover of the fixed wireless terminal for additional service. The contents of the terminal contain components that present an Electric Shock Hazard if handled improperly.
2. According to the power condition, you can hear a little noise during connection. For further assistance, contact your authorized LGE Service Center for service and assistance. Please keep your Model number and Serial number ready for quicker service.

Limited warranty statement

LG ELECTRONICS Inc. represents and warrants that this subscriber unit and its accessories ("PRODUCT") is free from defects in material and workmanship.

This warranty is subject to the following terms and conditions:

1. This warranty of the PRODUCT extends for a period of 12 months commencing from the date of the activation or 16 months from the date of manufacture whichever is less, except for the battery, for which the warranty is 9 months from the date of activation or 12 months from the date of manufacture whichever is less.
2. During the warranty period, LG ELECTRONICS Inc. or its authorized service network will repair or replace, at LG ELECTRONICS Inc.'s option, the PRODUCT or any relevant parts thereof in the event that the PRODUCT is found to be defective. The repaired PRODUCT or the Product/part provided as a replacement for a defective PRODUCT/part, shall be free from defects. The END USER/consumer purchaser of the PRODUCT or his/her assignee ("CONSUMER") shall not be charged (whether for parts, labour or otherwise) for the repair or replacement of a defective PRODUCT during the warranty period. All replaced parts, boards or equipment shall become the property of LG ELECTRONICS Inc.
3. warranty in respect of a repaired or replaced PRODUCT/part shall extend for the remaining warranty period of the repaired PRODUCT or replacement thereof to the CONSUMER.
4. Upon request from LG ELECTRONICS Inc., the CONSUMER may be required to provide the purchase receipt or other documentation or information in respect of the date and place of purchase.
5. The CONSUMER shall have no coverage or benefits under this warranty in the event that any of the following conditions are applicable:
 - (a) The PRODUCT has been subject to abnormal use or conditions, improper storage, exposure to excessive moisture or dampness, exposure to excessive temperatures, unauthorized modifications, unauthorized repair (including but not limited to use of unauthorized spare parts in repairs), abuse, accident, Acts of God, spills of food or liquids, improper installation and breakage or damage to antennae (otherwise than by reason of any defects in material or workmanship).
 - (b) LG ELECTRONICS Inc. has not been notified by the CONSUMER of the defects of the PRODUCT during the applicable warranty period.
 - (c) The PRODUCT serial number code or the accessory date code has been removed, defaced or altered.
 - (d) The PRODUCT has been used with or connected to an accessory (i) not supplied by LG ELECTRONICS Inc. or its affiliates, (ii) not fit for use with the PRODUCT or (iii) used otherwise than in the manner intended.
 - (e) The seals of the PRODUCT's battery enclosure have been broken or show evidence of tampering or the PRODUCT's battery has been used in equipment other than that for which it has been specified usable by LG ELECTRONICS Inc.
 - (f) All plastic surfaces and all other externally exposed parts that are scratched or damages due to normal customer use.
 - (g) Breakage or damage to antenna unless caused by defects in material or workmanship.
6. Order to derive benefits of this warranty in respect of any defects in the PRODUCT, the CONSUMER shall ship the PRODUCTS or part thereof at its cost to the authorized service center of LG ELECTRONICS Inc. LG ELECTRONICS Inc. shall bear the cost of shipping the PRODUCT or part thereof back to the CONSUMER after the completion of the service under this limited warranty. NO OTHER EXPRESS WARRANTY IS APPLICABLE TO THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LG ELECTRONICS Inc. SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER CONSEQUENTIAL DAMAGE, ARISING OUT OF THE USE OF, OR INABILITY OF USE OF THIS PRODUCT OR FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY OR MERCHANTABILITY OR FITNESS APPLICABLE TO THIS PRODUCT. THE CONSUMER UNDERSTANDS THAT LG ELECTRONICS INC. HAS EMBEDDED RELIANCE SOFTWARE AND ITS NETWORK PARAMETERS IN THE PRODUCT. IN CASE THE CONSUMER DELETES, REMOVES, ALTERS OR MODIFIES SUCH SOFTWARE AND THE PARAMETERS AND/OR INSTALLS ANY THIRD PARTY SOFTWARE, THE WARRANTY AND REMEDIES HEREUNDER SHALL NOT BE AVAILABLE TO THE CONSUMER.
7. It is hereby expressly clarified that all warranties (express or implied) in respect of the PRODUCT are provided by LG ELECTRONICS Inc. alone.

FCC RF Exposure Information

WARNING!

The antenna used for this transmitter must not exceed 2.5dBi and must be installed to provide a minimum separation distance of 20 cm from all persons.

CAUTION

Use only the supplied and approved antenna. Use of unauthorized antennas or modifications could impair call quality, damage the phone, void your warranty and/or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with skin, a minor burn may result. Contact your local dealer for a replacement of antenna.

FCC Part 15 Class B Compliance

This device and its accessories comply with part 15 of FCC rules.

Operation is subject to the following two conditions: (1) This device and its accessories may not cause harmful interference, and (2) this device and its accessories must accept any interference received, including interference that may cause undesired operation.