

FCC PART 15 Subpart C

EUT Users Manual

FOR

LG ELECTRONICS INC.

LG Kangseo B/D 36, Munlae-Dong, 6-Ga,
Youngdungpo-Gu, Seoul, 150-096, Korea

FCC ID: BEJGT8310C

October 27, 2000

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Digital Spread Spectrum Cordless Phone – Household Appliances
Test Engineer: Hien Pham	
Test Date: October 12, 2000	
Reviewed By: John Y. Chan – Engineering Manager	
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TABLE OF CONTENTS

1 - GENERAL INFORMATION..... 3

1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)3

1.2 OBJECTIVE3

1.3 RELATED SUBMITTAL(S)/GRANT(S).....3

1.4 TEST METHODOLOGY.....3

1.5 TEST FACILITY4

1.6 TEST EQUIPMENT LIST4

1.7 EQUIPMENT UNDER TEST (EUT).....5

1.8 EUT CONFIGURATION DETAILS AND LIST.....5

1.9 EXTERNAL I/O CABLING.....5

APPENDIX A – AGENT AUTHORIZATION LETTER 6

APPENDIX B – USER MANUAL 8

FCC PART 15 WARNING:.....9

D.S.KIM / QUALITY ENGINEERING DEPT.10

USER’S MANUAL.....12

GETTING TO KNOW YOUR NEW PHONE.....14

USING YOUR PHONE24

THE INTEGRATED ANSWERING DEVICE.....28

USING CALLER ID AND CALL WAITING ID.....31

VOICE MAIL.....34

1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The *LG Electronic Inc.*, FCC ID *BEJGT8310C* or the "EUT" as referred to in this report is a Digital Spread Spectrum Cordless Phone which has 20 channel possible in the 904-926 MHz Bandwidth, and the transmission range up to 1 Km in open sight (longer range than analog 900MHz cordless phone).

The EUT was composed of two parts: one is the handset which measures 9" L x 2.125" W x 1.675" H, the other is the base which measures 7" L x 5.5" W x 2.25" H.

1.2 Objective

This type approval report is prepared on behalf of *LG Electronics Inc.*, in accordance with Part 2, Subpart J, Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to demonstrate compliance with FCC rules for Output Power, 6 dB Bandwidth, Power Density, Band Edge, Spurious Emission, Processing Gain, Antenna Gain, and Conducted and Radiated Emission.

1.3 Related Submittal(s)/Grant(s)

No Related Submittals

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 –1992, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

1.5 Test Facility

The Open Area Test Site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Suite 2, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-1992.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-674 and R-657. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, IEC/CISPR 22: 1993, and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

1.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Cal. Due Data
HP	Spectrum Analyzer	8566B	2610A02165	12/6/00
HP	Spectrum Analyzer	8593B	2919A00242	12/20/00
HP	Amplifier	8349B	2644A02662	12/20/00
HP	Quasi-Peak Adapter	85650A	917059	12/6/00
HP	Amplifier	8447E	1937A01046	12/6/00
A.H. System	Horn Antenna	SAS0200/571	261	12/27/00
Com-Power	Log Periodic Antenna	AL-100	16005	11/2/00
Com-Power	Biconical Antenna	AB-100	14012	11/2/00
Solar Electronics	LISN	8012-50-R-24-BNC	968447	12/28/00
Com-Power	LISN	LI-200	12208	12/20/00
Com-Power	LISN	LI-200	12005	12/20/00
BACL	Data Entry Software	DES1	0001	12/20/00
Rohde & Schwarz	Signal Generator	SMIQ03B	1125.5555.03	7/10/2002
Rohde & Schwarz	I/Q Modulation Generator	AMIQ	1110.2003.02	8/10/2002

1.7 Equipment Under Test (EUT)

Manufacturer	Description	Model	Serial Number	FCC ID
LG Electronics Inc.	Handset	GT-8310C	None	BEJGT8310C
LG Electronics Inc.	Base	GT-8310C	None	BEJGT8310C

1.8 EUT Configuration Details and List

NOT APPLICABLE

1.9 External I/O Cabling**For Base:**

Cable Description	Length (M)	Port/From	To
Non-Shielded Phone Cable	2.0	RJ11 Port/EUT	Line1 RJ11 Port/ Telephone Simulator

Appendix A – AGENT AUTHORIZATION LETTER



LG Kangseo B/D 36, Munise-Dong, 6-Ga,
Youngdungpo-Gu, Seoul, 150-096, Korea
Youngdungpo P.O Box101, Seoul, Korea
Telephone : 82-2-2630-3651~2
Fax : 82-2-2630-3669

Exhibit B

AUTHORITY TO ACT AS AGENT TO THE FEDERAL COMMUNICATIONS COMMISSION

Date : February 21, 2000

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MID 21046 U.S.A.

Dear Sir:

We, the undersigned, hereby authorize Bay Area Compliance Laboratory Corp. to act on our behalf in all matters relating to applications for approval of Telecommunication apparatus, including the signing of all documents relating to this matters.

Any and all acts carried out by Bay Area Compliance Laboratory Corp., on our behalf shall have the same effect as acts of our own.

I further appoint Bay Area Compliance Laboratory Corp., to act as agent in preparation of this application for registration of LG Information & Communications, Ltd., Model GT-8110C as Exhibit C under Part 68 of the Rules and Regulations of the Federal Communications Commission.

I certify that the exhibits properly describe the device or system for which registration is sought, that Exhibit G represents the policies of the applicant which will be followed for all units manufactured and distributed under the provisions of Part 68, that the labels described in Exhibit H will be affixed to each unit, and that the information described in Exhibit J will be provided with each unit manufactured or distributed by the applicant. We also certify that no party to the applications authorized hereunder is subject to benefits, including FCC benefits, Pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 USC 853(a).

Sincerely yours,

D.S.KIM / Quality Engineering Dept.
LG Information & Communications, Ltd.

Appendix B – USER MANUAL

FCC Part 15 Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

COMPANY LETTERHEAD

DIGITAL SECURITY CODE:

The model(s) GT-8310C has the circuitry for digital security code to provide protection against unintentional access. For each model, one of 16777216 kinds of digital security code is randomly selected and fixed in each telephone as it is manufactured.



D.S.Kim / Quality Engineering Dept.
LG Information & Communications, Ltd.

Frequency (MHz)	Synthesizer Channel	DCT Channel		
		US	NZ	AUS
903.0	1			
903.6	2			
904.2	3	1		
904.8	4	2		
905.4	5			
906.0	6	3		
906.6	7			
907.2	8	4		
907.8	9			
908.4	10	5		
909.0	11			
909.6	12	6		
910.2	13			
910.8	14	7		
911.4	15			
912.0	16	8		
912.6	17			
913.2	18	9		
913.8	19			
914.4	20	10		
915.0	21			
915.6	22	11		
916.2	23			
916.8	24	12		
917.4	25			1
918.0	26	13		2
918.6	27			3
919.2	28	14		4
919.8	29			5
920.4	30	15		6
921.0	31			7
921.6	32	16		8
922.2	33			9
922.8	34	17		10
923.4	35		1	11
924.0	36	18	2	12
924.6	37		3	13
925.2	38	19	4	14
925.8	39	20	5	15
926.4	40		6	
927.0	41		7	

USER'S MANUAL

GT-8310C (900MHz DSST WITH CALLER ID AND CALLWAITING ID) MANUAL

This equipment has tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules, These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measurements:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

 CAUTION

Changes or modification to device not expressly approved by LGIC could void the user's authority to operate this equipment. Copyright © 2000 by LGE. All rights reserved.

 Warning

This equipment will be inoperable when mains power fails.

Model GT-8310C

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GETTING TO KNOW YOUR NEW PHONE

Your new GT-8310C telephone gives you the ultimate in cordless telephone sound quality with the luxury of *Caller ID* and *Call Waiting ID*

If this is your first cordless telephone, you'll soon discover that your cordless is similar to regular telephone, except without the cord. If you've owned a cordless in the past, you'll discover that the GT-8310C telephone is the most powerful and full-functioned *Call Waiting ID* cordless telephone on the market.

Some key features are:

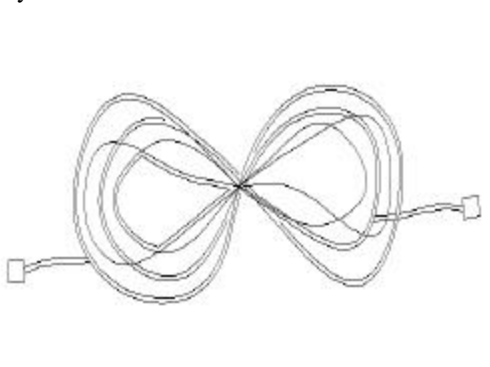
- 60 name and number *Caller ID/Call Waiting ID* memory
- 20 name and number programmable memory
- Hearing-aid compatibility
- High quality digital security communication
- Dual mode voice mail serviceable (FSK , STUTTER)

Unlike regular telephones, your cordless does not work during power failures.

Because of this restriction, we do not recommend you have only cordless telephone in your residence.

UNPACKING YOUR PHONE

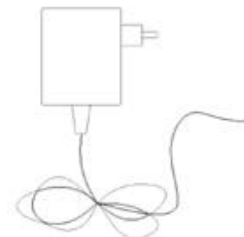
In addition to this handbook, check that you have:



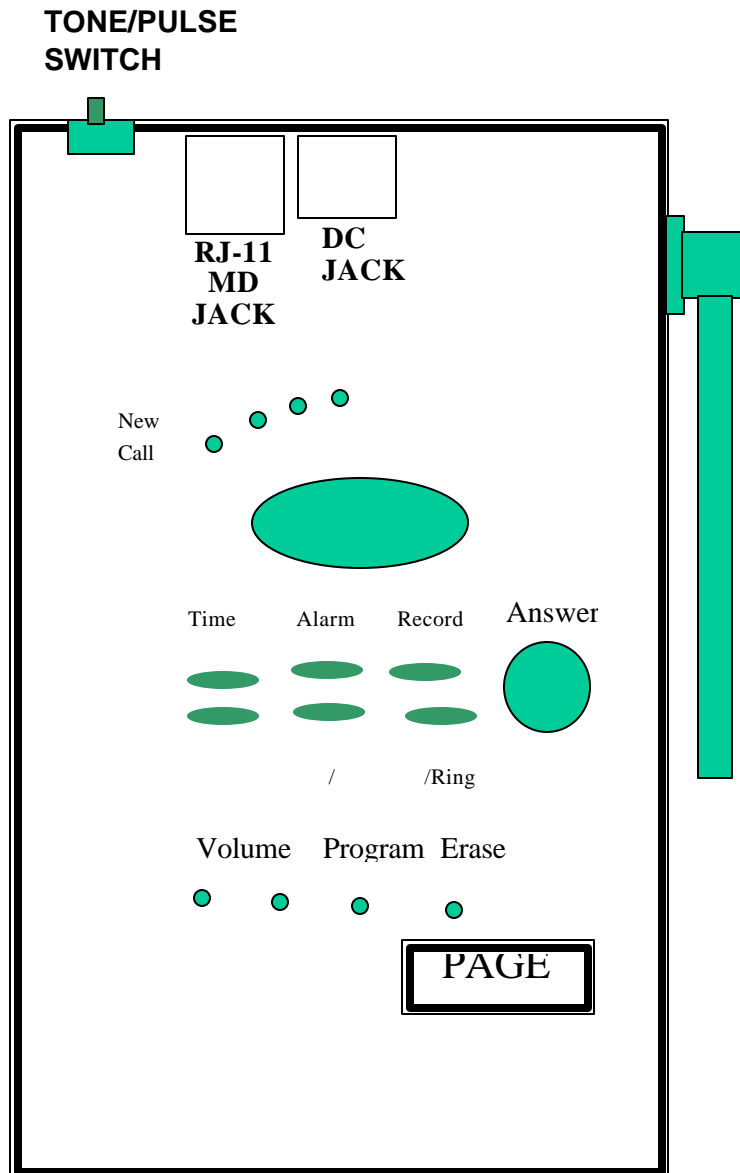
7-Foot Line Cord for Wall Mounting



D-AA600 x 3 3.6V 600mA Battery
(This might not be pre-installed in your handset)



AC Adapter



LOCATING KEYS, LIGHT, AND SWITCHES

ON THE BASE

- ① **The PAGE key** - is a homing system for finding the handset.
If you press the PAGE key once, the handset beeps for 15 seconds.
- ② **IN USE light** - becomes lit when the GT-8310C is being used.
- ③ **CHARGE light** - comes on solid when the handset is in the base.

④ **VOICE MAIL light** – flashes slowly to alert you when you receive new messages in your voice mail message mail box. MESSAGE WAITING appears on the display.

NEWCALL light – flashes more slowly when you receive new calls.

This light continues to flash until you review the new calls.

ON THE HANDSET

Keys

TALK key-Turns the phone on or off so you can dial or talk.

Voice mail key-

Directly access your V. Mail service

Dialing keys-Control manual dialing.

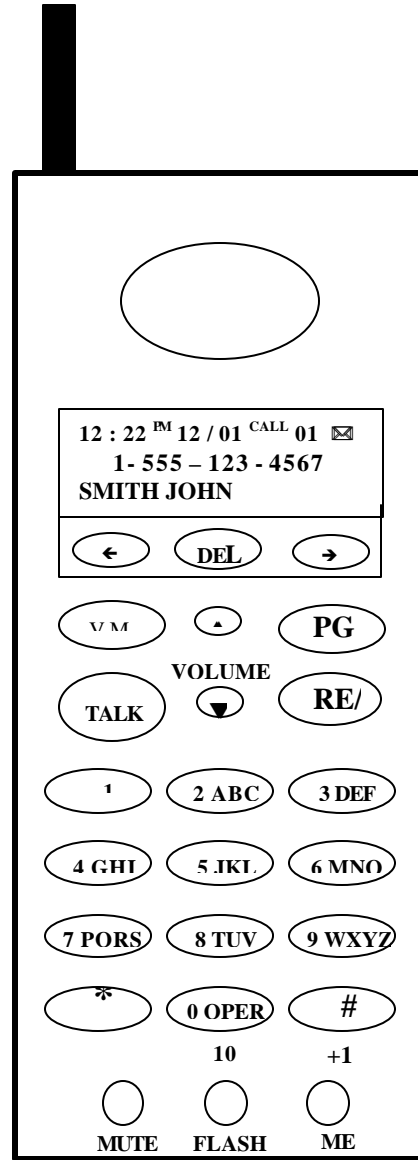
Scroll keys



Scrolls through your Callers log

Redial key-

Redials your last out-bound call or inserts a pause in a number when entering numbers into memory.



DELETE Key- Removes records from the Callers log or from memory dialing.

MEM key-Allows you to store frequently dialed numbers and to dial directly from the speed dialing list.

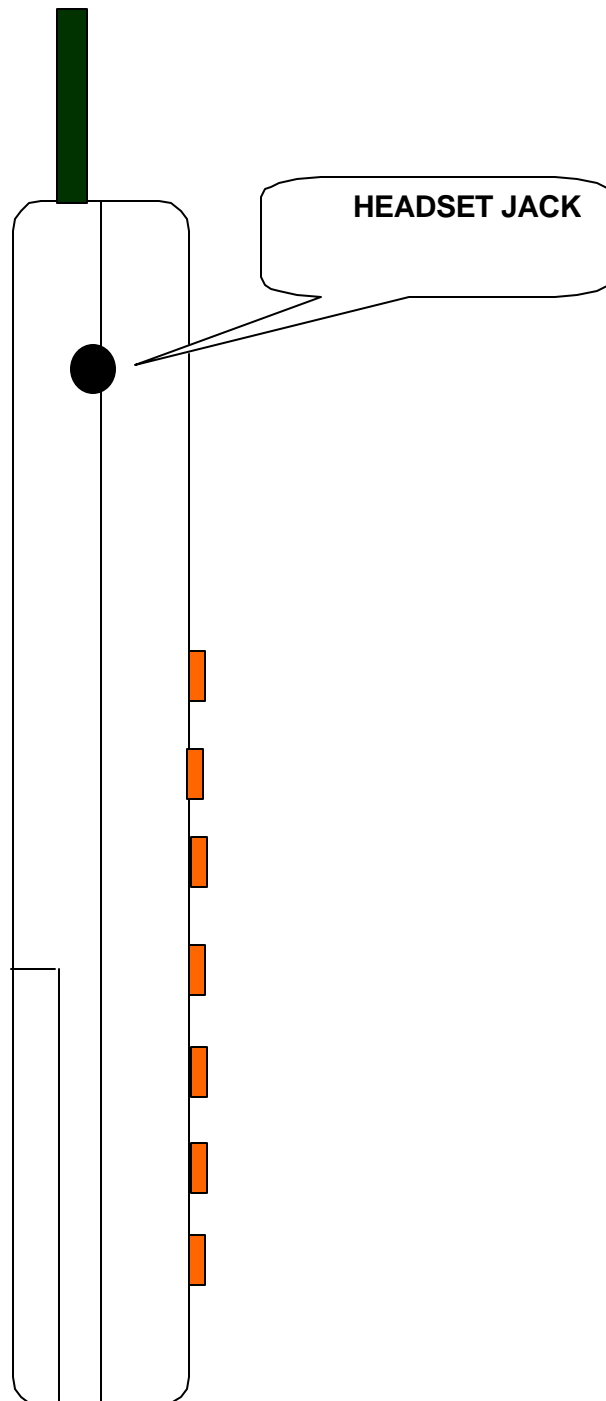
FLASH key- Allows you to switch between a call and a *Call Waiting* call.

PGM key-Allows you to program your setting up your function or to edit a name and number in memory.

VOLUME UP/DOWN KEY- Allows you to adjust the loudness of the handset earpiece, or the ringer or allows you to edit the character at Memory mode.

HEADSET Jack

It llows you to add a headset to the handset (not included, but available by order.)



SETTING UP YOUR PHONE

Now that you've checked the contents of the carton, it only takes a few steps to set up your phone.

STEP 1. CHOOSE A CENTRAL LOCATION FOR THE BASE UNIT

The base should be away from all other electronic equipment such as a personal computer, microwave, stereo ,or television. It is also a good idea to place the unit away from noisy areas, or from heat sources such as a radiator or direct sunlight.

STEP 2. PLUG IN CORDS

You can set your GT-8310C telephone on a tabletop or you can mount the phone on a wall. When on a tabletop, you can place the handset with either the keys facing downward or upward. If you decide to use the wall mount position, you can also place the handset with the same-ward.

To use on a tabletop or desk:

- 1.Take the long telephone line cord that comes with the phone and plug one end into the labeled TEL-LINE
- 2.Thread the long line cord through the channel in the housing to secure the cord.
- 3.Take the remaining end and plug it into the wall jack.
- 4.Plug the adapter tips into the adapter jack. Be sure that the tip is all the way into the jack.
- 5.Thread the adapter cord through the channel on the left-hand side of the bracket.

To mount on a wall:

- 1.Locate the handset hook. It is a small square plastic piece located at the bottom of the handset receiver well.
2. Slide the handset hook up and turn it around so that the tab is the top.
- 3.Remove the mounting bracket from the bottom of the phone by pressing down on the two clips near the top.
4. Turn the mounting bracket around so that the larger part the wedge is set the bottom of the phone.

5. Use the same method to replace the bracket.
6. Insert the 8 inch line cord into phone jack marked TEL LINE.
7. Thread the line cord through the channel on the right-hand side of the bracket to secure the cord.
8. Plug the adapter tip into the adapter jack. Be sure that the tip is all the way into the jack.
9. Thread the adapter cord through the channel on the left-hand side of the bracket.
10. Insert the other end of the line cord into the wall jack.
11. Align the holes in the bracket over the wall-plate posts.
12. Slide the phone down until the phone is secure.

STEP 3. PLUG IN THE ADAPTER

Plug the adapter into an electrical outlet. Without AC power, your phone does not operate.

STEP 4. ADD THE BATTERY TO THE HANDSET

Use this procedure to install or to replace a "dead" battery.

CAUTION

Use only nickel-cadium(Ni-Cad)battery in the phone.

1. Press down on the battery cover and slide the battery cover down to expose the battery well.
2. Locate the battery connectors inside the battery well.
If you are replacing a dead battery, remove the old battery by pulling firmly on the battery cords.
3. Insert the battery plug into the connector.
It is polarized and only insert in one direction.
4. Place the battery in the battery well.
5. Replace the battery door.

STEP 5. TURN THE HANDSET ON

You **MUST** install the battery on the handset to turn on and use your phone.

1. Check the power is on and appears on the display
2. You'll hear the handset's ready tones and the 'READY' message appears on the display.



READY

STEP 6. CHARGE THE HANDSET

Before you use the phone for the first time, you need to charge the battery for at least 6 hours.

Place the handset in the base of the phone. The charge light the base then comes on.

Whenever you need to charge your handset, you hear short beeps and see the 'LOW BATTERY' message. Press **TALK** and listen for dial tone to test for a fully charged handset.

STEP 7. Beginning the programming Sequence

Most of the programming options appear in one screens.
Press **PGM** key, **SETUP PROGRAM** appears on the screen.



SETUP PROGRAM

When you make a selection, the check mark, “✓” moves to the selection you have made to use ▲ or ▼ key. After making a selection, the next programming screens appear. If you make a mistake, press – (review) key to go back to the previous prompt or start the programming sequence again.

When you do not want to go on programming sequence, press PGM to save the previous items and you will exit the programming mode.

To begin the programming sequence, press PGM keys and SETUP PROGRAM appears on the screen.

STEP 8. Setting area code

Many regions are changing how customers use their area codes. In order to dial from your call records and directory records, the GT-8310C needs to distinguish between local and long distance numbers.

If your region has seven digit dialing (you don't need to dial your area code when making a local call), enter **your local area code** as described in to set your local area code below.

If your region requires that you always dial ten digits when making local calls, also follow the procedure under to set other local area codes.

If you are unsure on how your region works, please contact your local telephone co.

TO ENTER AN AREA CODE, use the keypad. If you make a mistake, retype the area code.

8-1 To set your local area code

If you set your area code, the GT-8310C telephone removes the area code from a call record within your own area. You need to program the code in order to dial with call records.

1. Press "PGM" key

2. Press Ⓢ (REVIEW) key.

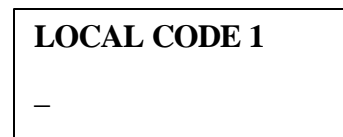
The my area code screen display.



3. Press ▲ or ▼ key to enter your area code.

The numbers appear on the display as you press the dial keys.

If you make a mistake, press "DEL"key, and reenter the area code.



STEP 9. SET LOCAL CODE(1~6)

If your region requires that you dial ten digits when making local calls, follow the procedures to set other local area codes.

1. Press **Ⓜ** (**REVIEW**) key
2. Press **0** or **1** key to enter your area code.
The number appear on the display as you press the dial keys.
If you make a mistake, press "**DEL**" KEY, and re-enter the local code.
3. Press **Ⓜ** (**REVIEW**) key
4. Enter 2nd local code.

GT-8310C has 6 local codes. Repeat 1~4 commands to enter other local codes.

STEP 10. SELECTING YOUR LANGUAGE

You can choose between two different languages, English or Spanish.
The screen **SELECT LANGUAGE** appears.

SELECT LANGUAGE

ENG ESP FRE

1. Press **Ⓜ** (**REVIEW**) key
2. Press **0** or **1** key to set **SELECT LANGUAGE** to enter **ENG** or **ESP** or **FRE**

STEP 11. Adding More units

If you subscribe to call waiting ID and this is first call waiting ID unit (the display appears as **1'ST CWID UNIT?**), you must select "**YES**". However, if you already have a call waiting ID unit, you must select "**NO**".

If you do not program this option correctly, you might not receive call waiting ID records consistently.

1. Press **Ⓜ** (**REVIEW**) key
2. Press **0** or **1** key to set **1'ST CWID UNIT** to **YES** or **NO**.

1ST CWID UNIT?

YES NO

STEP 12. Turning on Callwaiting ID

If you subscribe to **CALL WAITING ID**, turn this position ON

1. Press **Ⓜ** (**REVIEW**) key
2. Press **0** or **1** key to set **CALL WAITING ID** to **ON** or **OFF**.

CALL WAITING ID

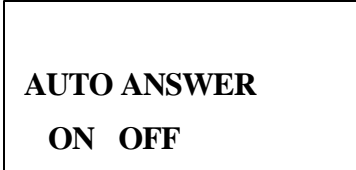
ON OFF

Setting this feature does not subscribe or cancel **CALL WAITING ID** service. You must contact your local telephone company to request a change in services.

STEP 13. ANSWER PHONE WHEN PICKED UP

There are two ways that the GT-8310C can answer a call. The GT-8310C can instantly answer incoming calls when you remove it from the cradle, or the phone can be set to answer after pressing the **TALK** key.

1. Press **Ⓜ** (**REVIEW**) key
2. Press **Ⓜ** or **Ⓜ** key to set **AUTO ANSWER** to **ON** or **OFF**.

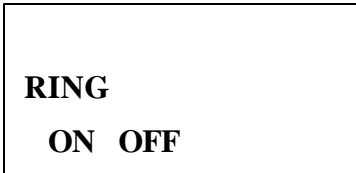


If you set **AUTO ANSWER** to **ON**, GT-8310C automatically answer incoming calls when removed from the cradle and also you could press any key to connect after incoming calls. If you set **AUTO ANSWER** to **OFF**, Press only **TALK** key before answering incoming calls .

STEP 14. SET RING ON or OFF

If you don't need to hear the ring sound and select **RING ON** or **OFF**

1. Press **Ⓜ** (**REVIEW**) key
2. Press **Ⓜ** or **Ⓜ** key to set **RING** to **ON** or **OFF**.



STEP 15. ADJUSTING THE CONTRAST

1. Press **Ⓜ** (**REVIEW**) key
2. To lighten the display, press **Ⓜ** key while also pressing **Ⓜ** key repeatedly until you get the desired results.



To darken the display, press **Ⓜ** key while also pressing **Ⓜ** key repeatedly until you get the desired results.

STEP 16. COMPLETED SETUP

Once you have finished installing your GT-8310C,
Your phone appears “READY” on the screen



STEP 17. SELECTING TONE/PULSE (T/P SWITCH) DIALING

- If your home is equipped with touch-tone dialing service, set the T/P switch **T(TONE)** on the base.
- If you only have rotary(pulse) dialing service, set the T/P switch **P(PULSE)** on the base.

USING YOUR PHONE

You can make calls many different ways with the GT-8310C.

DIALING

1. Press **TALK** key on the handset.
2. Use the number pad to dial the phone number.
The phone number appears on the display as you enter the number.
You also hear beeps for each digit as you dial.
3. Listen for a connection.
4. Press **TALK** to end your call.

REDIALING

Redial is a really fast method of calling your last number. Redial dials the last number you called whether you dialed it manually, or it was from a Call Record or the memory list.

For more information on dialing from call records, See *Dialing From Call Records* on page 17.
Redial is two-ways with the GT-8310C

➤ **1st method:** Press **TALK** and press **RE/PA**

➤ **2nd method:** Press **RE/PA** key, your phone is automatically connected and redialed

USING SPEED DIALING

Another short cut for dialing is using speed dialing. First, create a speed dial list, as described in *Creating Speed Dialing List* on page 14. Then:

1. Press **MEMO** key. It displays " DIRECTORY "
2. Press **←** or **Ⓜ** (**REVIEW**) key
and it displays " NAME and NUMBER " in MEMEORY.
3. Press **TALK** to dial
The phone automatically dials out whatever is shown on the display.

DIRECTORY

01
5556667777
SMITH JOHN

USING FLASH

To access your custom calling services, like Call Waiting, while you are on the telephone, press **FLASH**key.

USING PAUSE

If you want to add a three-second pause to number in your speed dialing list, press **RE/PA** key while creating the speed dial entry. For example, if you had a memory location dedicated to your voice mailbox, you might want add a pause in a dialing string for your PIN number. For more information about programming speed dialing numbers, see *Creating a speed Dialing List* on page 14.

FINDING CLEAR RECEPTION

Your GT-8310C automatically selects 1 of 20 channels at the beginning of the call for the best reception.

REACHING MAXIMUM RANGE

The GT-8310C handset and base communicate up to a certain maximum range.

Weather, power lines, or other cordless telephones can affect this distance.

The GT-8310C beeps whenever you are on the phone and the handset moves out of range from the base.

If you do not move back within range in 30 seconds, you lose your connection.

CREATING A SPEED DIALING LIST (H/S)

In addition to your Call Records, you can store up to 20 speed dial names and numbers in memory.

You can either enter name and number, or you can transfer a Call Record into your speed-dialing list.

MANUAL METHOD

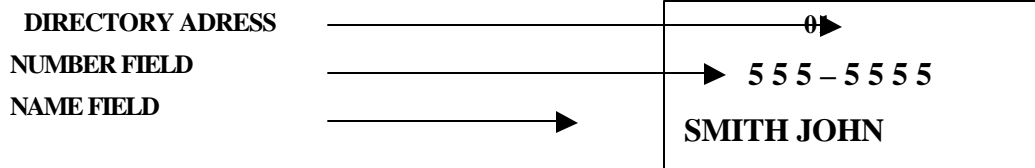
1. Press “ **MEMO** “ KEY at the 'READY' message.

2. Press " **PGM** " key to edit a character and number.
3. It displays like this.

The cursor is blinking on the name field.



4. Enter the name, character by character. You can have up to 21 characters in the name field,(The 3'rd Line)



- a. Locate the character on the dialing keys 2 through 9.
- b. Press once to enter the first character, twice for the second character, etc. For example, to choose a P, press **PQRS7** once, but to select an S, press **PQRS7** four times.
- c. Use the **←** or **Ⓜ (REVIEW)** Keys to move back and forth through the name.
Use the **↑** or **↓** keys to move up and down.

d. Create a space between names or words, by pressing the **® (REVIEW)** key twice after the last character.

e. Special Symbols

You can also use the **1** key to get the following symbols in the name field:

& ' () . 1

5. Enter the telephone number, area code first, using the dialing key pad. (2nd Line number field)

You can have up to 32 digits in the number field. If you make a mistake entering the telephone number, you must:

- a. Press **PGM** key to leave speed dialing list.
- b. Press **PGM** key to enter the speed dialing list again.
- c. Or, Use the **↔** or **® (REVIEW)** keys to find the digit and press **DEL** key and re-enter the telephone number and the name.

6. Press **MEMO** key to store the complete record. The phone gives you a confirmation tone to let you know that the record is stored.

NUMBER STORED

CALLER ID METHOD

A quick way to add to your speed dial list is to copy a *Caller ID* Call Record.

At THE 'READY' screen:

- 1. Locate the Call Record that you want to copy using **↔** or **® (REVIEW)** keys.

10 : 35 PM 10 / 25 CALL 25
5 5 5 - 5 5 5 5
SMITH JOHN

- 2. Press **MEMO** key. You now see some of the information from the Call Record and displays "**NUMBER STORED**" and displays call record again.

NUMBER STORED

- 3. The number of the memory location automatically is entered.

DELETING SPEED DIALING NUMBERS

You can erase unwanted speed dial numbers one-at-a-time.

1. Press **MEMO** key to see your speed dial list.
2. Use \rightarrow or **Ⓜ** (**REVIEW**) key to find the memory location you want.
3. Press **DEL** key once, and the GT-8310C asks if you want to delete this entry.

05 1 8 8 6 6 5 5 5 DELETE?

4. Press **DEL** key again to delete the speed dial number.

The GT-8310C clears the number, gives you a confirmation beep

If you do not wish to delete the number, press **MEMO** key to cancel.

ADJUSTING THE HANDSET VOLUME

1. Press TALK key
2. Press the \rightarrow or \leftarrow key to increase or decrease the VOLUME.

The handset sounds an error tone when it reaches the upper or lower limits.

ADJUSTING HANDSET RINGER VOLUME

Press the \rightarrow or \leftarrow key on the handset while the phone is not in-use.

You hear the sound of the ringer as you adjust the volume between the two levels.

ADJUSTING BASESET RINGER VOLUME

Press the \rightarrow or \leftarrow key on the handset while the phone is not in-use.

You hear the sound of the ringer as you adjust the volume between the two levels.

USER SLECTABLE RINGER TONES (H/S)

There are four user-selectable ringer tones available for this handset.

1. While in the Stand-by mode, press the **FLASH** button
2. Press a key (1 to 4) to select a ringer tone mode.

USER SLECTABLE RINGER TONES (B/S)

There are five user-selectable ringer tones available for this handset.

1. While in the Stand-by mode, press the **FLASH** button
2. Press the **RING** button (continuously) to select a ringer tone mode.

THE INTEGRATED ANSWERING DEVICE

TURNING THE ANSWERING SYSTEM ON/OFF

1. To turn the answering system on, press **OUT DOOR**. A tone sounds. Then, the **OUT DOOR** button is lighted.
2. Turn the answer system off. Press **OUT DOOR** again, then, light turns off.

SETTING THE CLOCK

To set the correct time:

1. Press **PROGRAM** button.
2. Press **TIME** (7 digit) button
3. Press number key to input day.
 - 1: Sunday
 - 2: Monday
 - 3: Tuesday
 - 4: Wednesday
 - 5: Thursday
 - 6: Friday
 - 7: Saturday
4. Press number keys to input current hour. (0~23)
5. Press number keys to input current minute. (0~59)

Then the GT-8310C Answering System announces the correct time.

To listen to current time, press **TIME** button or press **CONFIRM** button and **TIME** button.

Then answering system announces the time.

SETTING ALARM TIME

If you set alarm time, GT-8310C sounds alarm at your setting time in everyday.

1. Press **PROGRAM** button.
2. Press **ALARM(9)** button.
3. Press number keys to input hour (0~23).
4. Press number keys to input minute (0~59).

The system announces your setting time.

If you want alarm function to set, press **ALARM** button in stand-by mode. Alarm LED is lighted in baseset. If you want alarm function to release, press **ALARM** button again. Alarm LED is OFF.

To review alarm time, press **CONFIRM** button and press **ALARM** button.

RECORDING YOUR OUTGOING MESSAGE

When you receive a call, the answering system automatically plays either a present greeting, or your own personal greeting.

Present Message

The following message is pre-recorded

“Hello, I cannot receive your call, please leave your message after a beep. Thank you.”

Recording your personal Outgoing Message (OGM)

1. Press **RECORD** key in stand-by mode.
The answering system announces explanation and LED counts recording time.
Record your message. (MAX 20 sec)
2. When you finish recording your message, press / (play/stop) button
A tone sounds. Your message plays back your review.

CHOICE BETWEEN THE PRE-RECORDED GREETING AND YOUR PERSONAL GREETING

1. Press **OUT DOOR** button. The answering system announce choosing OGM.
2. To choose your personal outgoing message, press **1** button.
To choose pre-recorded outgoing message, press **3** button.

The answering system announces your selecting **OGM**.

SETTING THE RING TIME

1. Press **PROGRAM** button
2. Press **RECORD** button
3. Press number button (2~9)

TOLL SAVE

In the TOLL SAVE is ON, if you have new message, the answering system answers after one ring.

If there are no new messages, the system answers after four rings. This way, when you call long distance to check your messages, and have no message, you can hang up after the second ring to save a charge.

SETTING A PIN CODE

To listen to your messages from a remote location, you will need to enter a four digit Personal Identification Number (PIN) code (0000~9999)

1. Press **PROGRAM** button.
2. Press **OUT DOOR** button.
3. Press **PIN** code (4 digit)

Your PIN code plays back for your review.

To review your **PIN** code, press **CONFIRM** button and press **OUT DOOR** button.

PLAYING YOUR MESSAGE

The base 7-segment LED displays the total number of messages.

1. Press / (play/stop)
The system announces messages.
2. After reviewing our new messages, you can review your old messages.
Press / (play/stop) and ⏮ or ⏭ to review old messages.

SKIPPING A MESSAGE

1. Press / (play/stop) to review your messages
2. Press ⏮ at anytime to skip to the next message.
3. Press / (play/stop) at any time to stop reviewing your messages and return to stand-by mode.

DELETING MESSAGES

1. Press / (play/stop) to review your messages.
2. If you decide to delete a message, press **ERASE (2)** button. The system goes to the next message.

To delete all you messages, press **ERASE** button and press **CONFIRM (#)** button in stand-by mode.

RECORDING A VOICE MEMO

The Voice Memo function allows the user to record a message on the base for others who use your phone.

1. Press **MEMO** button. System announces how to use. Record your message.
2. When you have finished your message, press / (play/stop). The system returns to stand-by mode.

REMOTE ACESS AWAY FROM HOME

You can access functions such as checking recorded messages, playing or deleting messages, and room monitoring remotely using a touch-tone phone.

1. Call you telephone number.
2. While the outgoing message is playing, press # button, and press your **PIN** code.
3. You select a command from the following chart:

Delete all messages	0 then 0 (confirm) then 5 (cancel)
Play	2
Room Monitor	4
Stop	5
Delete (while announcing)	0
Remote control off	9

When you select Room Monitor, it is continuous about 10 seconds.

When you finish, the answering system automatically returns to stand-by mode.

USING CALLER ID AND CALL WAITING ID

One of the best features of your phone is *Caller ID*, which allows you to see information about an incoming call before you pick up the phone. With *Caller ID* service from your local telephone company, the GT-8310C telephone displays and records information about the call in a log.

Possibly even better than *Caller ID* is *Call Waiting ID*. In addition to providing normal *Caller ID* information, *Call Waiting ID* allows you to see caller information while you are on a call.

Now you can have the information you need to choose whether or not to answer a waiting call.

Before you use these features on your GT-8310C telephone, you must first subscribe to the services through your local telephone company, and set "**CALL WAITING ID ON or OFF**" correctly during the **SETTING UP YOUR PHONE** procedure.

For more details on **CALLWAITING ID ON/OFF**, see **STEP 10. Turning on Callwaiting ID on page 10.**

RECEIVING NEW CALLS

When you receive a new call, the information is stored under CALLER area.

When you press \rightarrow or $\text{\textcircled{R}}$ (REVIEW) key, it tells you:

- How many total calls you have.
- How many new calls you have since you last reviewed your calls.

ALL : 23 NEW : 03

When you receive a call, the GT-8310C displays the caller information sent by the Telephone Company, called a *Call Record*.

The call record consists of the following information:

- The caller's name(If available)
- The caller's telephone number
- The time and date of the call
- A call record number
- NEW CALL LCD display
- MESSAGE WAITING (VOICE MAIL) indicator

10 : 35 PM 10 / 25 NEW

5 5 5 - 5 5 5 5

SMITH JOHN



MESSAGE WAITING

REVIEWING CALL RECORDS

To review a call Record:

1. Press \rightarrow or \textcircled{R} (REVIEW) to see how many new calls you have.
2. Use \rightarrow or \textcircled{R} (REVIEW) key to move through the Call Record list.
 - Press \textcircled{R} (REVIEW) key to see the most recent call record.
 - Press \rightarrow (REVIEW) key to see earlier calls.

When you reach either end of the Call Record list, you see an **END OF LIST** message. If you continue to press \rightarrow or \textcircled{R} (REVIEW) key, you scroll through the list again.

END OF LIST

DIALING FROM CALL RECORDS

You can use your Call Records as a short-cut method of dialing.

1. Press \rightarrow or \textcircled{R} (REVIEW) key to see your Call Records.
2. Use \rightarrow or \textcircled{R} (REVIEW) key to find the desired Call Record.
3. Press **TALK** key,

The phone dials whatever is shown on the display.

SAVING CALL RECORDS

Your phone stores up to 60 Call Records before the memory becomes full.

When the next call comes in, the oldest record drops off and makes room for the new Call Records.

To save specific calls, delete old and unnecessary call records to keep from filling your phone's memory.

DELETING CALL RECORDS

You can either delete a single record or you can delete all Call Records at one time.

To delete a single record:

1. Press to \rightarrow or \textcircled{R} (REVIEW) key to see your Call Records.
2. Use \rightarrow or \textcircled{R} (REVIEW) key to find the desired Call Record.
3. Press **DEL** key once, and the GT-8310C asks if you want to erase this Call Record.
4. Press **DEL** key again to erase the Call Record.

The GT-8310C deletes the Call Record, gives you a confirmation beep.

10 : 35 PM 10 / 25 CALL 25

5 5 5 – 5 5 5 5

DELETE?

To delete all Call Records:

1. Press **↔** or **Ⓜ** (REVIEW) key.
The display shows you how many call records you have.
2. Press **DEL** key and the GT-8310C asks you want to delete all Call Records.
3. Press **DEL** key again and the GT-8310C clears all Call Records, gives you a confirmation beep.

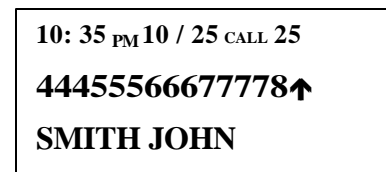
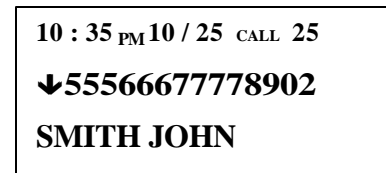


SEEING LONG RECORDS

If you receive long records on caller ID information, you could see that to use the **↔** or **↵** key. the **↔** or **↵** key allows you to scroll back and forth to see long records.

1. Press **↔** or **Ⓜ** (REVIEW) key.
The display shows you long records

2. Press **↔** or **↵** key to see remain numbers



VOICE MAIL

Voice Mail Serves your calls when you are away from your phone or even while you are on the phone. The indicator Light flashes whenever you have message in your mailbox. And once you have programmed your Voice Mail key with your personal access codes, you can get your message at the touch of a button. You must subscribe to Voice Mail Service in order for this feature on your phone.

To Program the Voice Mail Key

Using this method, you can store up to 32 digits per key-You can program digits, flash, pause, * or #, such as your mailbox number, your PIN, and any other additional codes that you need.

1. press **MEMO** key
2. press **VOICEMAIL** key
3. press **PGM** key



- and then you will see the following display, The 2'nd line cursor(Number field) is blinking.
4. You can store digits, # , * , Flash , Pause up to 32 digits
 5. press **PGM** key to cancel
 6. Press **MEMO** key to store

To Use Voice Mail

Once you have programmed your Voice Mail key, you can access your mail box by pressing ● VOICE MAIL key.

Not to use Voice Mail

If you are not subscribing to a voice mail service from your local telephone company and you set **VOICEMAIL** to **OFF** in Set up Program mode, The GT-8310C automatically change your voice mail key into Speed dial key.



To Program the SPEED DIAL Key.

Using this method, you can store up to 32 digits per key-You can program digits, flash, pause, * or #, such as your mailbox number, your PIN, and any other additional codes that you need.

1. press **MEMO** key
2. press **VOICEMAIL** key
3. press **PGM** key




- and then, you will see the following display, The 2'nd line cursor(Number field) is blinking.
You can store digits, # , * , Flash , Pause up to 32 digits
4. press **PGM** key to cancel
 5. press **MEMO** key to store

To Use SPEED DIAL

Once you have programmed your SPEED DIAL key, you can access by pressing ● VOICE MAIL key.

READING DISPLAY MESSAGES

The GT-8310C informs you of status by displaying the following messages :

Message	Display
<p>ALL CALLS & NEW CALLS: This message lets you know how many call records you have, and how many of those call records are new, In this example, you have 23 call records, and 3 new calls.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>ALL: 23 NEW: 03</p> </div>
<p>CHARGING: The handset BATTERY is getting low. Place the handset in the base in order to recharge.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>CHARGING</p> </div>
<p>DELETE ALL?: You pressed the DEL key after pressing the \rightarrow or $\text{\textcircled{R}}$ (REVIEW) key</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>DELETE ALL?</p> </div>
<p>DELETE ? : To delete a single record, You pressed DEL key after pressing the \rightarrow or $\text{\textcircled{R}}$ (REVIEW) key.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 DELETE ?</p> </div>
<p>END OF LIST: You have reached the end of the call records. Press either \rightarrow or $\text{\textcircled{R}}$ (REVIEW) key to see other records.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>END OF LIST</p> </div>
<p>INCOMPLETE DATA : The message sent is incomplete data This message usually indicates temporary interference. There is no problem with the phone.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>INCOMPLETE DATA</p> </div>
<p>MESSAGE WAITING : The GT-8310C (base LED) flashes slowly to alert you and appears on the display “ Message waiting “ When you receive new messages in your mail box.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p> MESSAGE WAITING</p> </div>
<p>NO CALLS: There are no call records in the caller ID memory.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>NO CALLS</p> </div>

Message	Display
<p>NUMBER ONLY: Either name service is not available in your area, or you are subscribing to a number-only service.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 5</p> </div>
<p>PRIVATE: The caller has purposely chosen to block his/her phone number.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 P R I V A T E</p> </div>
<p>TALK: The handset is on and ready for you to dial.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>T A L K</p> </div>
<p>PAGING : The Base is calling the handset.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>PAGING</p> </div>
<p>UNAVAILABLE: The Caller ID information, such as the name, or both the name and number, might not be available from the caller's area.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 5 UNAVAILABLE</p> </div>
<p>LONG DISTANCE : The message sent is a long distance call. You might see this message alternate with other messages.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 5 SMITH JOHN</p> </div>
	<p>▼ ▲</p>
	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 5 LONG DISTANCE</p> </div>
<p>LOW BATTERY : The handset is needed to replace the cradle.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>LOW BATTERY</p> </div>

Message	Display
<p>OUT OF RANGE: If you use the handset too far away from the base unit during a call, the handset will alert you by audio warning beeps (when using talk) and OUT OF RANGE appears on the display.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>OUT OF RANGE</p> </div>
<p>NUMBER STORED : When you save the call records in the directory or create a speed dialing list, you will see the display like this.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>NUMBER STORED</p> </div>
<p>Forwarded CALLS : The message sent is a forwarded calls. You might see the 3 type messages alternate with other messages.</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 5 SMITH JOHN</p> </div>
	<p>▼ ▲</p>
	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 5 CFW. UNIVERSAL</p> </div>
	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 5 CFW. BUSY</p> </div>
	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>10 : 35 PM 10 / 25 CALL 25 5 5 5 – 5 5 5 5 CFW. NO ANSWER</p> </div>
<p>NEW CALL: This message lets you know that you have a New messages</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p style="text-align: right;">NEW</p> <p>READY</p> </div>

TROUBLESHOOTING

Are you having trouble with your phone?

Here are some of the most common problem areas and solutions.

SYMPTOM	CORRECTIVE ACTION
No dial tone	<ul style="list-style-type: none"> ➤ Verify that the line cord is connected and secure. ➤ Check to see that you are not out of range to the base. ➤ Check that the AC adapter is plugged into the outlet. ➤ Check that the handset is fully charged. ➤ Check to see that the Battery is connected inside the battery compartment.
Phone doesn't ring	<ul style="list-style-type: none"> ➤ Verify that the LINE CORD and AC adapter are plugged in correctly. ➤ Check that the RING ON/OFF in your set up program mode. ➤ Determine if you have too many communication devices hooked to a single line. <p>A communication device can be a phone, modem, or facsimile (FAX) machine. Contact your local phone company business office for help calculating the limit for your residence or business.</p> <ul style="list-style-type: none"> ➤ Move the handset closer the base
The phone has Static or fades In and out	<ul style="list-style-type: none"> ➤ Check to see that you are not out of range to the base. ➤ Check that the handset is fully charged.
Caller ID / Call Waiting ID doesn't work properly	<ul style="list-style-type: none"> ➤ Verify that the CALLWAITING ID function is set correctly <p>See <i>Step Turning CALLWAITNG ID ON or OFF on SETUP program</i></p> <ul style="list-style-type: none"> ➤ Check your service. Call your local phone company's Business Office to ensure that your services are active. ➤ Check for a power outage in your home area ➤ Check the AC adapter ➤ Check that the extension phone is being used.
Charge Light does Not work	<ul style="list-style-type: none"> ➤ Check whether the handset is making contact in the cradle. ➤ Check the AC adapter <p>Be sure that the adapter is not damaged and that it is securely plugged into a working outlet. Also check that the wall plug is not controlled by a wall switch.</p>
Phone does not when using call dial out correctly when using call records	<ul style="list-style-type: none"> ➤ You might not have programmed your area code correctly. Please see <i>Set up program my Area Code</i>

SYMPTOM	CORRECTIVE ACTION
<p>Blank or faint screen</p> <p>NO DATA</p>	<ul style="list-style-type: none"> ➤ Check the contrast control for the display see set up your program ➤ Check the AC adopter Be sure that the adapter is not damaged and that it is securely plugged into a Working Outlet and the phone jack. Also check that the wall plug is not controlled by a wall switch or a power strip. ➤ You might not have received your first call record. ➤ Check your service. Call your local phone company to ensure that you have <i>Caller ID</i> or <i>Call Waiting ID</i> service. ➤ Check the answering machine. Ensure that your answering machine is set to answer after two rings. ➤ You answered the call before two rings. ➤ Check call Forwarding. Ensure that Call Forwarding is turned off. ➤ Contact your local phone company's Service Department If the problem continues for more than 24 hours. Your local phone company central office may be temporarily experiencing an overload.
<p>INCOMPLETE DATA</p>	<ul style="list-style-type: none"> ➤ Call information was distorted before reaching the unit. Normal static on the telephone line can cause a line error and an INCOMPLETE DATA message. If this condition persists, check with your local telephone company to ensure that there is not a problem with your phone line.
<p>Handset does not Charge.</p>	<ul style="list-style-type: none"> ➤ Check that the AC adapter is plugged in and operating correctly. ➤ Check whether the handset is making contact in the cradle.
<p>PAGE key does not page the handset</p>	<ul style="list-style-type: none"> ➤ The handset is not communicating with the base. The handset is either turned off, out of range, or the battery needs recharging.
<p>Handset does not work</p>	<ul style="list-style-type: none"> ➤ Check the AC adapter. Be sure that the adapter is not damaged and that it is securely plugged into a working Outlet and the phone jack. Also check that the wall plug is not controlled by a wall switch or a power strip. ➤ Verify that the handset is turned on ➤ place the in the cradle for several seconds. Ensure the handset is making contact in the cradle. ➤ Recharge the battery.