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IMPORTANT SAFETY INSTRUCTIONS



This symbol is to alert you to important operating or servicing instructions that may appear in the user's manual. Always follow basic safety precautions when using this product to reduce the risk of injury, fire, or electrical shock.

When using this product, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Use only with class 2 power source DC 9V 300mA.
4. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth to clean.
5. Do not use this product near water; for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
6. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
7. Slots and openings in the cabinet back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in an enclosed environment unless proper ventilation is provided.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by animals or persons walking on it.
9. Do not overload wall outlets and extension cords as this can result in risk of fire or electrical shock.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electrical shock, do not disassemble this product. Instead take it to a qualified service person when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electrical shock when the appliance is subsequently used.
12. Unplug all cords and refer servicing to qualified service personnel under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls covered in the operating instructions. Improper adjustment of other controls may result in damage and require work by a qualified technician to restore the product to normal operation.
13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use a telephone to report a gas leak in the vicinity of the leak.

IF YOUR PRODUCT UTILIZES BATTERIES, THE FOLLOWING ADDITIONAL PRECAUTIONS SHOULD BE OBSERVED:

1. Use only the type and size of batteries specified in the users manual.
2. Do not dispose of the batteries in a fire. The cells may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets and keys. This battery or conductor may overheat and cause burns.
5. Do not attempt to recharge the batteries with or identified for use with this product. The batteries may leak corrosive electrolyte and explode.
6. Do not attempt to rejuvenate the batteries provided with or identified for use with this product by heating them. Sudden release of the battery electrolyte may occur causing burns or irritation to eyes or skin.
7. When replacing batteries, all batteries should be replaced at the same time. Mixing fresh and discharged batteries could increase internal cell pressure and rupture the discharged batteries.
8. When inserting the batteries into this product, the proper polarity or direction must be observed. Reverse insertion of batteries can cause charging, which may result in leakage or explosion.
9. Remove the batteries from this product if the product will not be used for a long period of time (several months or more) since during this time the batteries could leak, damaging the product.
10. Discard "dead" batteries as soon as possible since they are more likely to leak in a product.
11. Do not store this product, or the batteries provided with or for identified use with this product, in high temperature areas.
12. If your product uses a rechargeable battery, charge the battery(ies) only in accordance with the instructions and limitation specified in the User Manual.

SAVE THESE INSTRUCTIONS

TO: MS. JESS TANG (ITS-THY)
FROM: DAN (LIONDA) 9/29/01

IBM-3455

FAX: 852-27411693

Modifying or tampering with the telephone's internal components can cause a malfunction and might invalidate the telephone's warranty and void your FCC authorization to operate it. If the trouble is harming the telephone lines, the telephone company might ask you to disconnect the telephone until you have resolved the problem.

As it complies with Part 68 of the FCC rules, your unit has been registered with the FCC. The FCC requires us to provide you with the following information:

1. Connection and use with the nationwide telephone network:

The FCC requires that you connect to a nationwide telephone network through a modular telephone outlet which is Part 68 compliant.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. Check with your local telephone company.

2. Notification to the telephone company:

FCC rules require that upon request you provide the following information to the phone company.

- The line (telephone number) to which you will connect the telephone equipment, and
- The FCC Registration Number and Ringer Equivalence Number (REN). These numbers are found on the back or bottom of your telephone equipment.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum all RENs should be 5 or less. To determine the number of devices permitted in your area, contact your local telephone company.

3. Repair instructions:

If it is determined that your telephone equipment is malfunctioning, the FCC requires that it not be used and be unplugged from the modular outlet until the problem has been corrected. Repairs to this telephone equipment can be made only by the manufacturer or its authorized agents, or by others who may be authorized by the FCC. Unauthorized repairs void registration and warranty.

4. Rights of the telephone company:

If your product is causing harm to the telephone network, the telephone company may temporarily discontinue your service. If possible, they will notify you in advance. But if advance notice isn't practical, you will be notified as soon as possible. You will be given the opportunity to correct the problem, and you will be informed of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your telephone equipment. If such changes are planned, you will be notified in advance.

5. This product is compatible with inductively coupled hearing aids.

Note: This applies only if this product is equipped with a corded or cordless handset.

6. Programming/testing emergency numbers:

When programming emergency numbers and/or making test calls to emergency numbers

- Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
- Perform such activities in the off-peak hours, such as early morning or late evening.

INTERFERENCE INFORMATION: PART 15 OF FCC RULES

Some telephone equipment generates and uses radio frequency energy which if not properly installed, may cause interference to radio and television reception.

This equipment has been 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 instruction, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not 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 measures:

1. Reorient or relocate the receiving ANTENNA.
2. Increase the distance between the equipment and the receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experience radio/TV technician for help.

ETL SEMKO ③		
Incoming Date:		3-10-01
		Action By
		JESS TANG

BATTERY CAUTIONARY INSTRUCTIONS

BATTERIES: CAUTION

To reduce the risk of fire or injury to persons, read and follow these instructions:

For the cordless handset, use only 3.6V 600mAh Nickel Cadmium (Ni-Cd), cordless telephone battery pack (included).

Do not dispose of the batteries in a fire. The cells may explode. Check with local codes for possible special disposal instructions.

Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.

Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.

Do not attempt to rejuvenate the batteries identified for use with this product by heating them. Sudden release of the battery electrolyte may occur causing burns or irritation to eyes or skin.

When inserting batteries into this product, the proper polarity or direction must be observed. Reverse insertion of batteries can cause charging, and that may result in leakage or explosion.

Remove the batteries from this product if the product will not be used for a long period of time (several months or more) since during this time the battery could leak in the product.

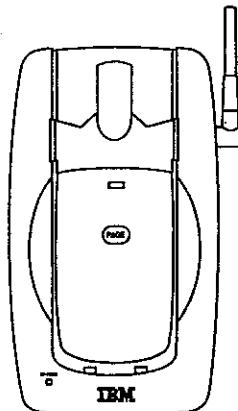
Do not store this product, or the batteries identified for use with this product, in high temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting.

Batteries should be stabilized at room temperature prior to use after cold storage.

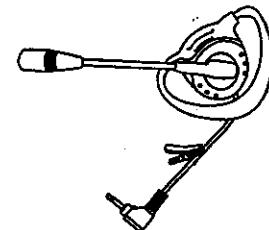
The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates TT Systems LLC is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC® program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-8-BATTERY for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. TT Systems LLC's involvement in this program is part of our commitment to preserving our environment and conserving our natural resources.



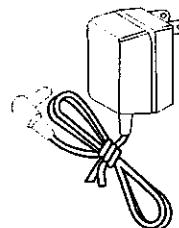
1. Handset



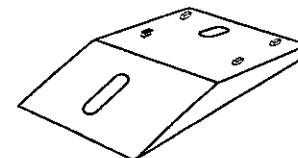
2. Base



3. Headset



4. AC power adapter



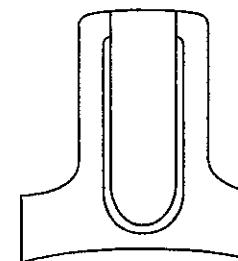
5. Reversible pedestal



6. 7-foot line
cord for desk use



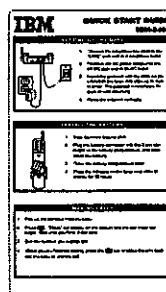
7. Short line cord for
wall installation



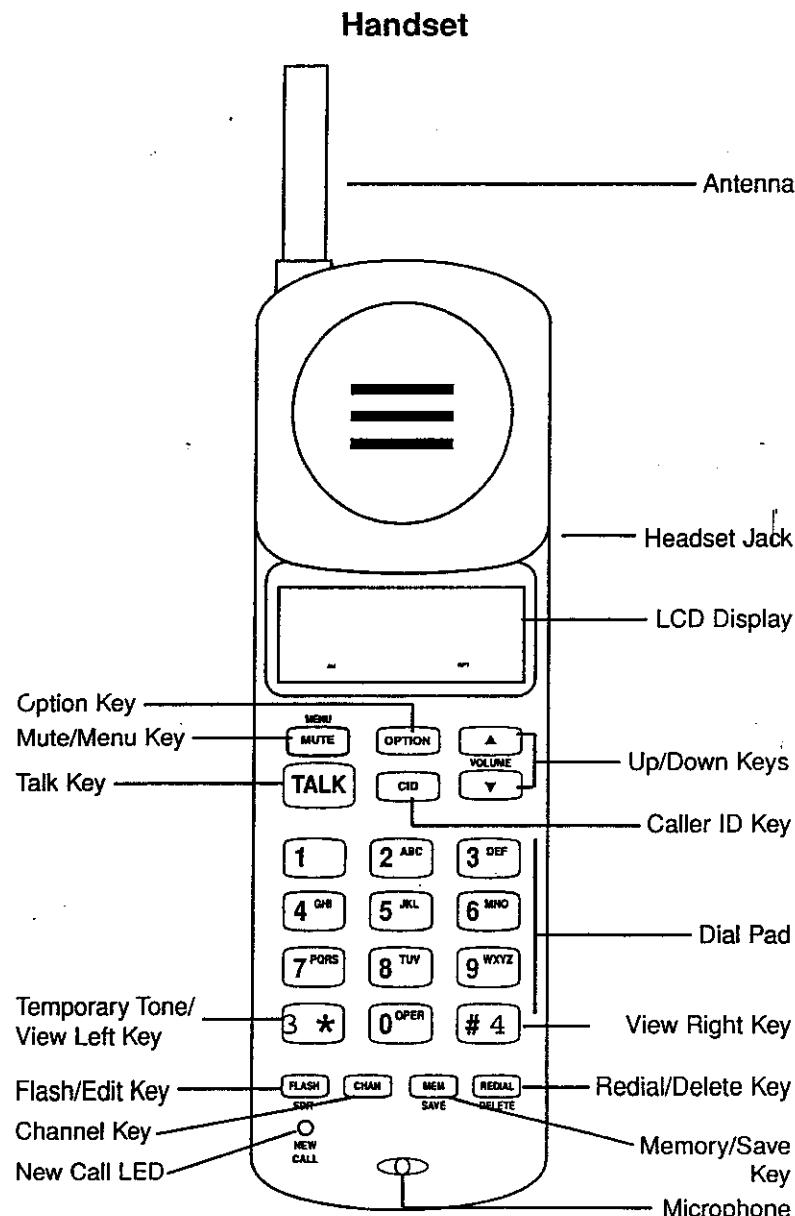
9. Belt-Clip



10. Ni-Cd battery pack



8. Quick start card



Talk The **TALK** key is used to access the telephone line or end a call.

Redial Key **REDIAL/DELETE**

When the phone is idle or off-hook, press **REDIAL** to redial the last number dialed. When viewing or editing menus and logs, the **REDIAL/DELETE** key is used to erase digits on the display and single or multiple entries from the phone book and Caller ID directories. **REDIAL** is also used to insert a programmable pause into a number stored in the phone book.

Caller ID Key

The **CID** key is used to review Caller ID information stored in memory.

Option Key **OPTION**

The **OPTION** key is used to change the 7/10/11 digit dialing mode during caller ID callback.

Mute Key **MUTE/MENU**

The **MUTE/MENU** key is used to temporarily mute the handset microphone. This key is also used to access the programmable functions of your phone.

Up/Down Keys

The **▲** **▼** keys let you scroll through menus and logs, and adjust the handset volume.

Dial Pad

Numeric keys are used in the conventional manner for dialing.

Flash Key **FLASH/EDIT**

The **FLASH/EDIT** key is used to access telephone company services, like call waiting. It is also used to create and edit phone book entries.

Memory Key **MEM/SAVE**

Use **MEM/SAVE** to program and retrieve the numbers in the speed dial directory. The **MEM/SAVE** key is also used to save numbers into the phone book and other settings.

Channel Change Key **CHAN**

The **CHAN** key, when pressed, will scan up to 50 channels and select the clearest one to provide the best possible reception.

Temporary Tone/View Left Key **•***

If the base is set to pulse dialing, pressing **•*** causes subsequent digits to be dialed out using tone until the line is put back on hook. Also used to view the left part of the display and move the cursor left when editing.

View Right Key **#**

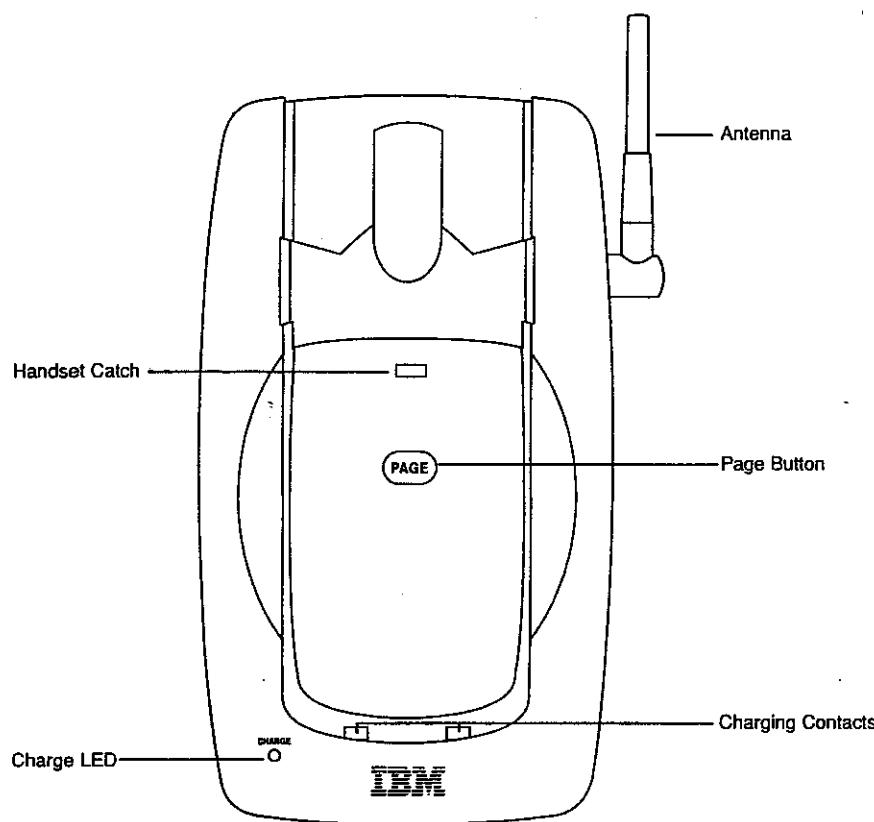
Used to view the right part of the display and move the cursor right when editing.

Headset Jack

Allows using a headset for hands-free convenience.

LOCATION OF CONTROLS AND FEATURES

Base



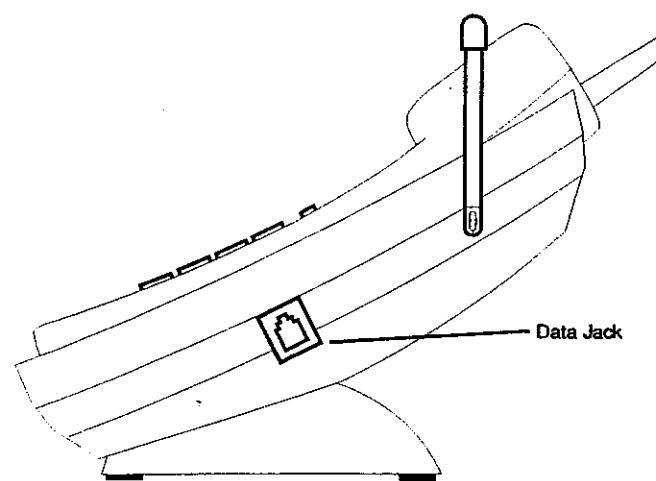
Page - Used to initiate a handset page.

Handset Catch - Used to hold the handset on the base when it is wall mounted.

Charge LED - On (red) when the handset is on the cradle being charged. On (green) when the handset is in use. Lights green when ringing.

Charging Contacts - Used to recharge battery and reset the security code in the handset.

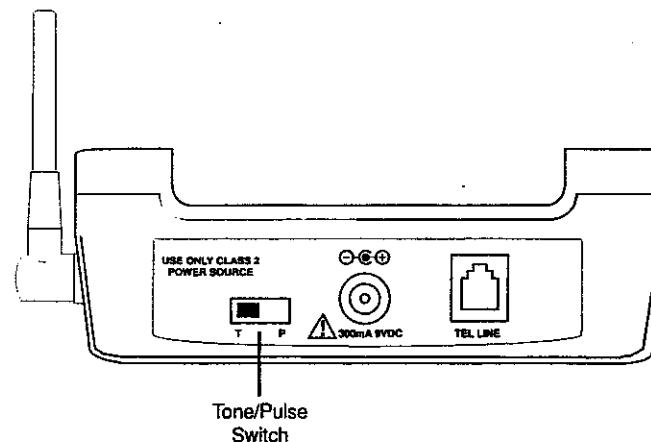
Right Side View



Data Jack

Used for connecting a computer or fax machine.

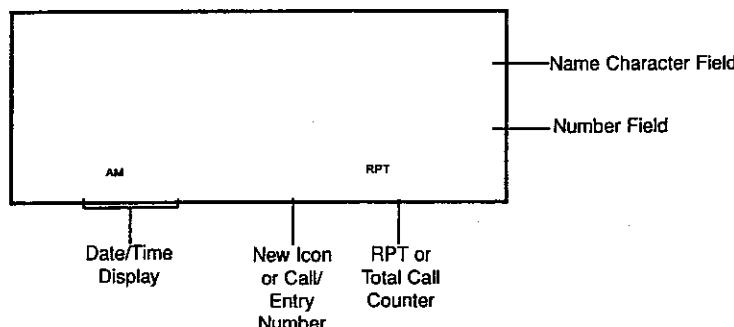
Base Top View



Tone/Pulse Switch

Used to set the dialing method for tone or pulse dialing.

CD Display



Name Character Field

Displays caller's name and operational menus.

Number Field

The number field will display numbers when dialing, viewing Caller ID, and when viewing the phone book.

Date/Time Display

Shows the date and time of Caller ID calls or current date & time when idle.

NEW Icon

When in idle mode, the NEW call icon will flash slowly when a new Caller ID call has been received. The number of new caller ID calls is listed next to the icon.

Call/Entry Number

When in any of the menus, a number is listed here, next to the # sign. This number indicates the place in the list, such as the 38th caller ID call or the 7th setting in the menu.

RPT Counter

When viewing caller ID entries, the RPT icon indicates that the same Caller ID number has called more than one time since Caller ID memory has last been reviewed. Next to the RPT icon is a counter that indicates how many times that caller has called since the last review.

Total Call Counter

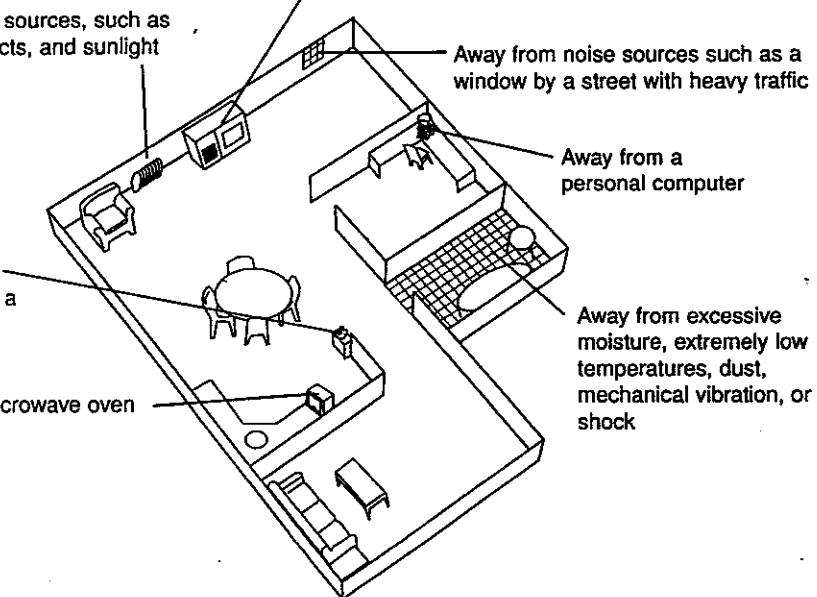
The Total Call Counter will show the total number of Caller ID messages received, the total number of phone numbers stored in the phone book, etc., depending on the menu.

Do the following:

- Choose the best location
- Connect the phone
- Choose the dialing mode

Away from heat sources, such as radiators, air ducts, and sunlight

Away from VCRs and TV sets and other electronic equipment



Where you place the phone affects the reception quality of the handset:

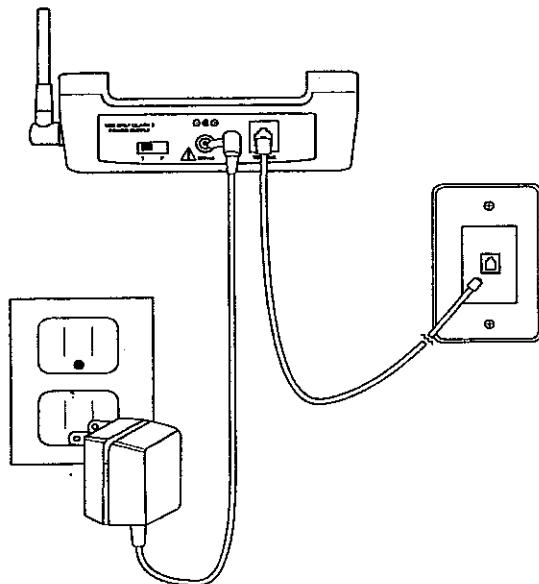
- Away from another cordless telephone
- Place the base near an AC electrical outlet and near telephone line jack
- Place the base away from metal walls and metal file cabinets
- Raise the base unit's antenna making sure it points towards the ceiling

CAUTION: The cordless telephone operates at a frequency that may cause interference to nearby TVs and VCRs; the base phone should not be placed near, or on top of a TV or VCR. If interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.

Note: While the 2.4GHz frequency is inherently clearer, we suggest that you do not use this phone within 20 feet of a working microwave. The microwave produces frequencies in this range which may cause interference. This interference is normal for all 2.4GHz phones and should not be considered a product defect.

TELEPHONE SETUP

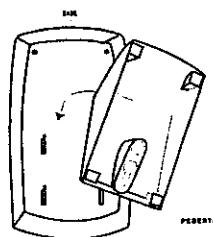
Connecting the Base



- Connect the telephone line cord to the "LINE" jack and to a telephone outlet.
- Connect the AC power adapter to the 9V DC jack and to an AC outlet.
- Insert the pedestal into the slots on the bottom of the base and slide up to lock in place. The pedestal is reversible for desk or wall mounting.
- Raise the antenna vertically.

Note: Use only the supplied AC power adapter. Do not use any other AC power adapter. Connect the AC power adapter to a continuous power supply. Place the phone close to the AC outlet so that you can plug in the AC power adapter easily.

Tip: If your telephone outlet is not modular, contact your telephone company for assistance.

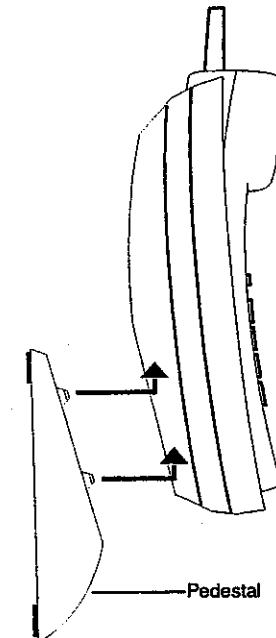


Wall Mounting

The IBM-3455 telephone may be installed on the studs of a standard wall phone plate or onto two screws (not included) fastened into the wall. When installing screws into plasterboard walls, use wall anchors (not included) to ensure that the screws remain secure. Insert the screws into the wall leaving 3/16" of each screw extending out from the wall.

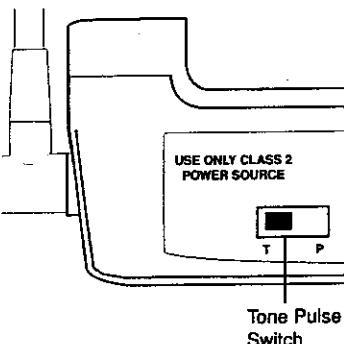
Wall Mounting Instructions:

1. Remove the handset from the base.
2. Turn the base over so the underside of the base faces you.
3. Place the pedestal to the wall mount position and slide into place.
4. If mounting over a telephone wall jack, plug the supplied short telephone cord into the jack labeled **LINE** on the telephone. Thread the line cord through the slot on the backside of the phone.
5. If wall mounting with screws, plug the supplied 7-foot telephone cord into the **LINE** jack on the telephone.
6. Connect the telephone line cord to the wall jack.
7. Insert the AC adapter into the 9V DC jack on the top of the base.
8. Slip the telephone base onto the wall, lining up the wall mounting holes over the wall plate posts or screws. Slide the telephone base down so it is firmly in place.
9. Return the handset to the telephone base.
10. Plug the other end of the AC adapter into the AC outlet.



TELEPHONE SETUP

Tone/Pulse Switch



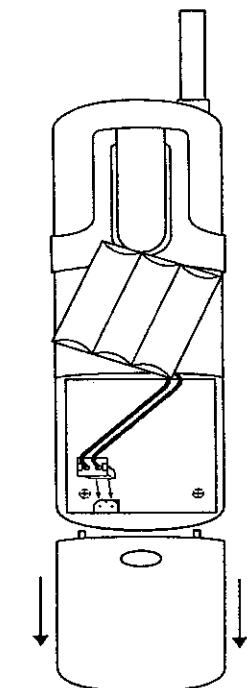
1. Choose the correct dialing mode.
2. Select the dialing mode Tone or Pulse by setting the switch at the back of the base unit.

Note: Changes to the switch position during a call do not take effect until the call has ended.

Tip: If you are unsure of the proper dialing mode, make a trial call with the dial mode setting to **TONE**. If the call connects, leave the switch as is (**TONE** mode), otherwise, set to **PULSE**.

To install the 3.6V 600mAh cordless handset battery pack:

1. Slide open the battery compartment door on the back of the handset.
2. Plug the battery connector into the 2-pin connector in the battery compartment, and then insert the battery.
3. Close the battery compartment door.
4. Place the handset on the base unit cradle.
5. Once you have installed the battery pack and placed the handset on the base you will hear a tone indicating the handset has connected with the base and will successfully charge.
6. **IMPORTANT:** Charge the battery pack for at least 12 hours before using the handset the first time.
7. The **CHARGE** LED on the base illuminates when the handset is properly making contact with the charge terminals.



Battery Duration

A fully charged battery lasts for approximately:

- 6 hours when you use the handset continuously (talk time).
- 5 days when the handset is not in use (standby).

When the Battery Needs Charging

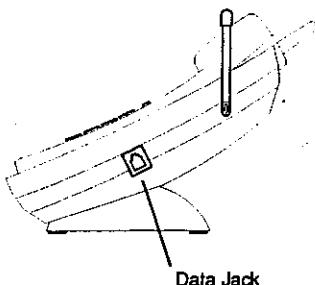
- The display will show "LOW BATTERY."



When to Purchase a New Battery Pack

If the battery lasts only a few minutes even after a full charge, the usable life of the battery has expired and needs to be replaced. Contact TT Systems LLC customer support center at 1-800-955-1009 for information about how to order a new battery

HEADSET AND DATA JACK



The Data Jack

The jack located on the side of the telephone labeled "DATA" is a convenience jack. It is useful for connecting a fax machine or modem when there is no telephone jack available for that device.

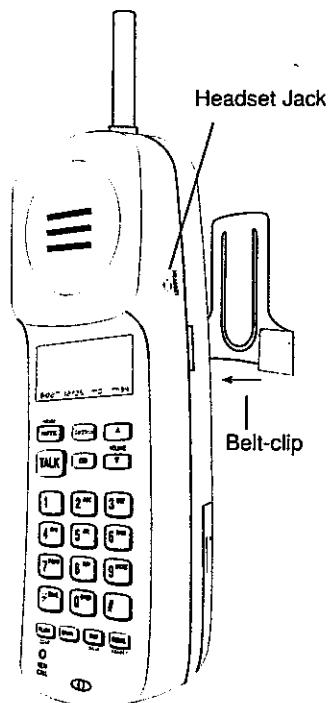
The Headset Jack

The headset jack is located on the side of the handset and is a standard 2.5mm plug. Simply plug the headset into the jack and the headset will be active.

Note: When the headset is plugged into the telephone, the microphone and earpiece on the handset are not active.

Belt-Clip

Install the belt-clip as shown.



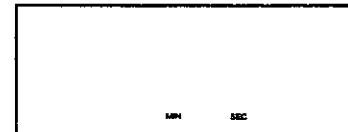
Handset Idle



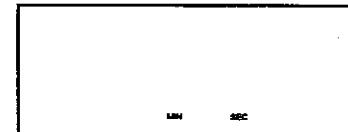
Line Muted



Volume Control



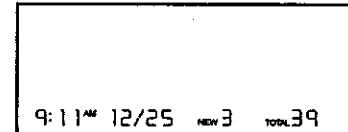
Call Timer



Line Ringing



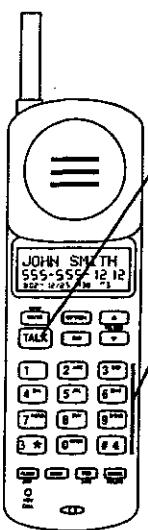
New CID Received



Off-hook



Making Calls



1. Pick up the handset from the base.
2. Press **TALK**. "TALK" will display on the screen and the call timer will begin. Wait until you hear a dial tone.
3. Dial the number you wish to dial.
4. When you are finished talking, press the **TALK** key or place the unit back into the base to end the call.

Note: The **CHARGE** light on the base will illuminate when the line is active.

Receiving Calls

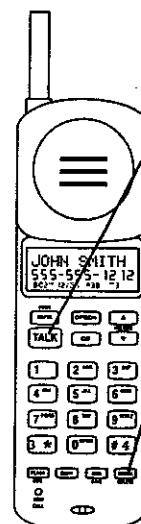


When you hear the phone ring:

1. If the handset is in the base, lift the handset from the base. The handset will turn on. There is no need to push the **TALK** key if the unit is on the base when the call comes in. This auto-answer feature can be programmed off (see handset settings page 28).
2. If the handset is off the base the display will show "RING." If you have Caller ID, the display will show the Caller ID information after the first ring.

3. Push **TALK**.
4. When you are finished, push **TALK** or place the handset back on the base.

Redialing



1. Press **TALK**. "TALK" will display on the screen and the call timer will begin. Wait until you hear a dial tone.
2. Press **REDIAL** to redial the number last dialed (up to 32 digits).

Note: You can also press **REDIAL/DELETE** first to display the number and then press **TALK** to dial the number displayed.

Additional Options

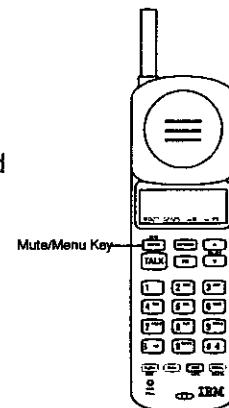
To:	Do This:
Adjust the volume in the earpiece	Press during a call until the desired volume level is reached.
Switch to temporary tone dialing	Press the key after the phone is in use. The phone will remain in tone dialing mode for the duration of the call.
Receive a call waiting call	Press FLASH to go to the new caller. Press FLASH again to go back to the original caller.
Mute a call	Press the MUTE key. Press MUTE to continue speaking to the caller.

Handset Settings

You can change the setting on the handset in the options menu. Access the options menu by pressing and holding the **MUTE/MENU** key until "RING:HI" is displayed.

There are 13 settings in the options menu which can be changed. You can scroll through the option menu in the listed order by pressing the **◀▶** key. Settings which have a listed number can be reached directly by pressing that number on the keypad.

To edit most settings, press the **FLASH/EDIT** key, use the **◀▶** keys to toggle between the setting options, and then press **MEM/SAVE** to save changes. You can continue programming options by using the dial pad keys or the **◀▶** keys to go to a new setting. Press **MUTE/MENU** to exit the options menu.



Key Function

- 1** **Ring Hi/Low/Off:** Change the volume of the ringer on the handset or turn the ringer off.
- 2** **Language:** Change the language that appears on the display. Choose between English, French, and Spanish.
- 3** **First Ring On/Off:** Turn the first ring of the phone off so that it does not ring until caller ID information has been displayed. Particularly useful when using the priority and blocked call features or the private and unavailable ring settings.
- 4** **Time Set:** Change the time and date.
- 5** **Area Code:** Allows the programming of a home area code where 7-digit dialing is used for ease of callback and other features.
- 6** **Contrast:** Adjust the brightness of the display for optimum viewing.
- 7** **PBX Number:** Number used to access PBX dialing options. The default setting is "9."
- 8** **PBX Mode On/Off:** Determines if the "PBX Number" is used before an outgoing number is dialed. When "On," automatically dials the PBX number and a pause, before any speed dial or caller ID callback number. Default setting is "Off."

Key Function

- g FLASH** **Pause Time:** Allows you to adjust the number of seconds that a pause lasts such as during programmed pauses in your speed dial numbers or after your PBX number is dialed.
- 0 FLASH** **MSG Waiting Delete:** Clears any current message waiting indication.
- * FLASH** **Auto Answer On/Off:** Turns on and off the feature which makes the phone automatically go off-hook when the handset is picked up from the base while the phone is ringing.

Private Ring On/Off: Turns on and off the ring for all calls where the caller has blocked their caller ID. Please note that the phone will ring once even when set to "Off" unless First Ring is programmed "Off" as well.

Unavailable Ring On/Off: Turns on and off the ring for all calls where caller ID information is unavailable. Please note that the phone will ring once even when set to "Off" unless First Ring is programmed "Off" as well.

Note: At any time during options programming you can quit and the settings that you have changed will be saved. Press **MUTE/MENU** to quit or let the options programming time out by not pressing any keys for 20 seconds.

Setting the Ringer Level

1. Press and hold the **MUTE/MENU** key to enter the menu
2. Press **FLASH/EDIT** to change the setting. "HI" will begin flashing.
3. Use the **◀▶** keys to toggle between HI, LOW, and OFF.
4. When the setting you desire is displayed, press **MEM/SAVE** to save the setting. A double beep will sound to confirm the setting has been saved.
5. Continue with programming or press **MUTE/MENU** to return to the idle screen.