IBM®

MODEL: IBM-3455

2.4GHZ CORDLESS TELEPHONE WITH CALL WAITING CALLER ID

INSTALLATION AND OPERATING GUIDE
GUIDE D'INSTALLATION ET D'UTILISATION
GUÍA DE INSTALACIÓN Y OPERACIÓN

IMPORTANT: To receive Caller ID information on incoming telephone calls, you must subscribe to the Caller ID service provided by your local telephone company; there is a fee for this service and it may not be available in all areas.

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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 for cleaning.
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. The 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 or 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

FCC REGULATIONS

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 telephonecompany. 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.
   A. The line (telephone number) to which you will connect the telephone equipment, and
   B. 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
   A. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
   B. 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 unit has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in subpart J of Part 15 of the FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, when it's in use, the user is encouraged to try to correct the interference by one or more of the following measures:

    A. Where it can be done safely, reorient the radio or TV receiving antenna.
    B. To the extent possible, relocate the television, radio, or other receiver with respect to the telephone equipment.
    C. If your telephone product runs on AC power, plug your product into an AC outlet that's not on the same circuit as the one used by the radio or television.

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),
  GP60AAS3BMJ cordless telephone replacement 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.

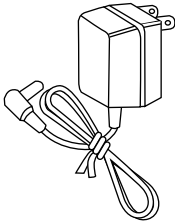RBRC™ is a trademark of the Rechargeable Battery Recycling Corporation.
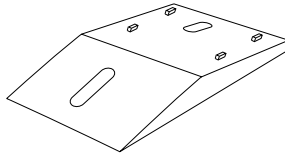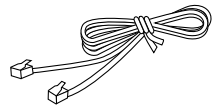
IBM-3455 PARTS CHECKLIST

1. Handset
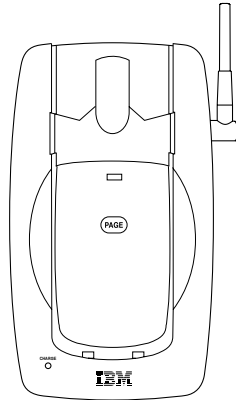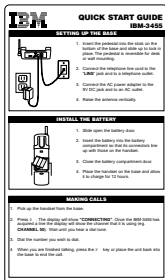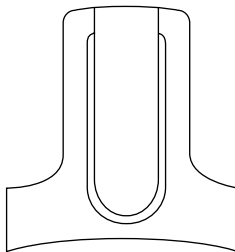
2. Base

3. AC power adapter

4. Reversible pedestal

5. 7-foot line cord for desk use

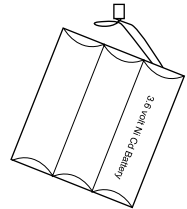6. Short line cord for wall installation

7. Quick start card

8. Belt-Clip

9. Ni-Cd battery pack

Handset

Antenna

Headset Jack

SMITH JOHN
888-555-1212
12/08 11:46 AM NEW RPT 28

LCD Display

Delete Key

MENU

Hold/Menu Key — HOLD   DELETE   ▲

Talk Key — TALK   CID   ▼
VOLUME

Up/Down Keys

Caller ID Key

1   2 ABC   3 DEF

4 GHI   5 JKL   6 MNO

Temporary Tone Key — 7 PQRS   8 TUV   9 WXYZ

✳ TONE   0 OPER   #

Dial Pad

Flash Key

PAUSE

FLASH   CHAN   MEM   REDIAL

Redial/Pause Key

Channel Key

IBM

Memory Key

New Call LED — NEW CALL

Ringer Switch

Microphone

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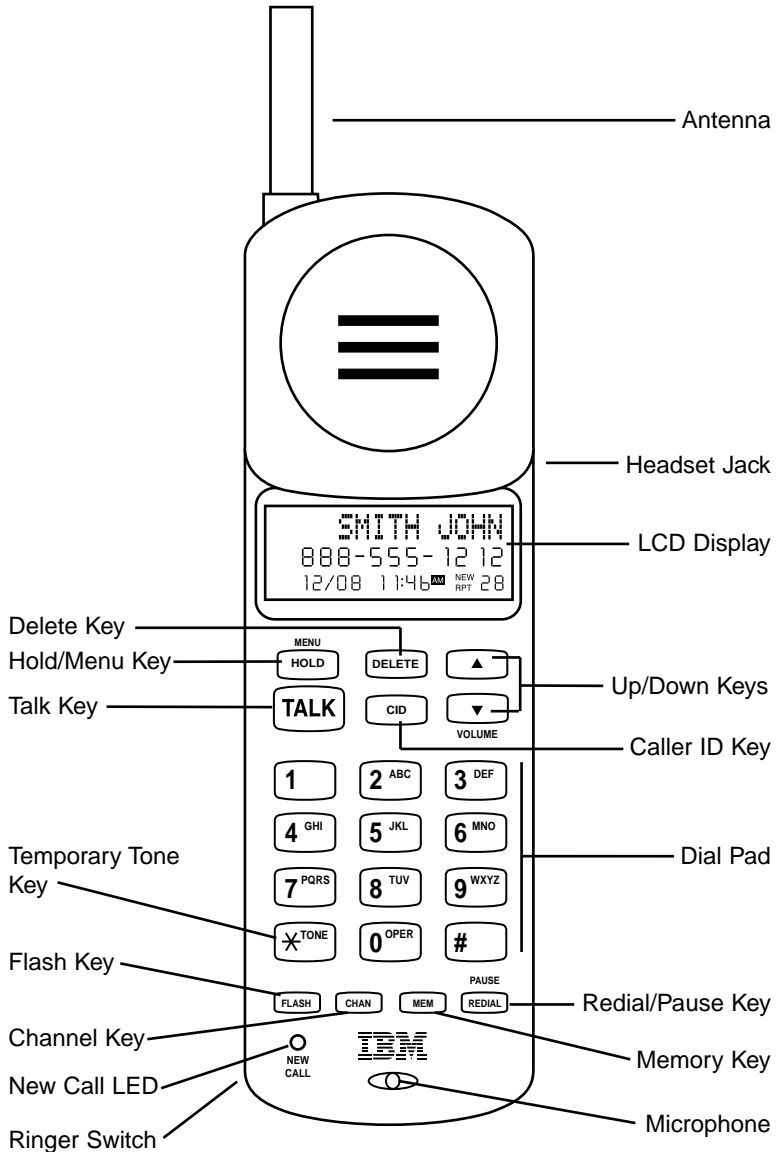
Talk TALK
The TALK key is used to access the telephone line.

Delete Key DELETE
The DELETE key is used to erase digits on the display, single or multiple entries from the speed dial and Caller ID directories.

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

Hold Key HOLD/MENU
The HOLD/MENU key is used to place a call on hold. This key is also used to access the programmable functions of your phone.

Up/Down Keys ▲ ▼
The ▲ ▼ keys let you scroll through menu options and adjust the ringer and handset volume.

Dial Pad
Numeric keys are used in the conventional manner for dialing.

Flash Key FLASH
The FLASH key is used to access telephone company services, like call waiting.

Redial Key REDIAL/PAUSE
The telephone will automatically redial the last number dialed. REDIAL/PAUSE is also used to program a measured pause into a dialing sequence stored into a memory location.

Memory Key MEM
Use MEM to program and retrieve the numbers in the speed dial directory.

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 Key ✱TONE
If the base is set to pulse dialing, pressing ✱TONE causes subsequent digits to be dialed out using tone until the line is put back on hook.

Ringer Switch
The **RINGER** switch is used to turn the handset ringer **ON** and **OFF**.

Headset Jack
Allows using a headset for hands-free convenience.

8
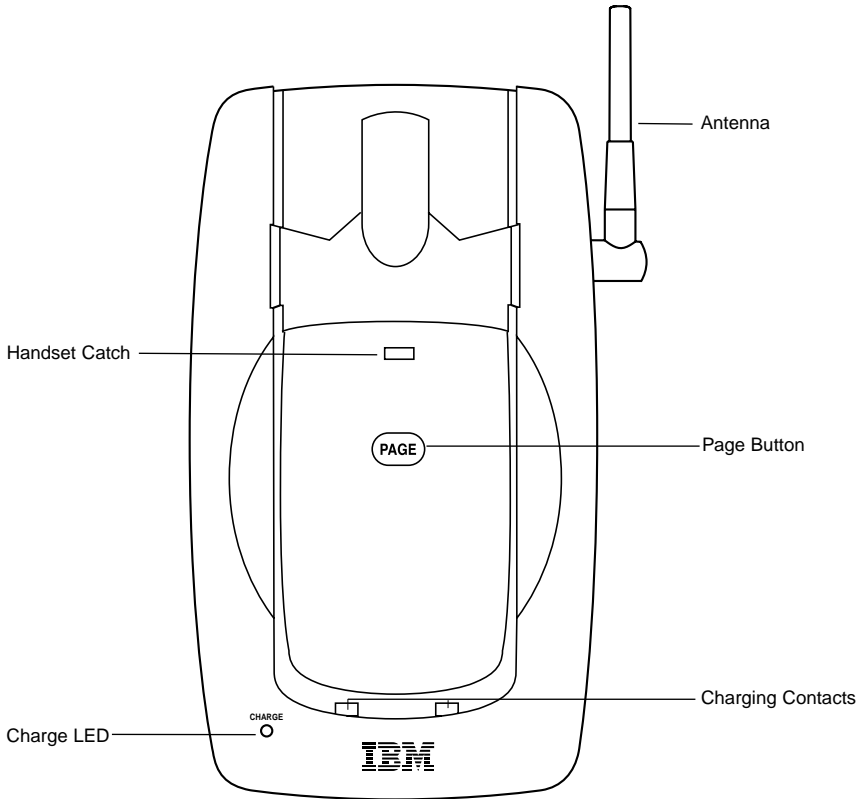
Base

Page **PAGE** - Used to initiate a handset page.

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

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

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

Right Side View
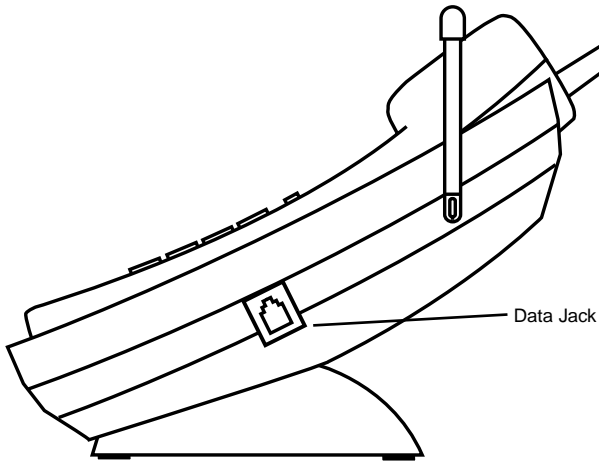
Data Jack

Data Jack
Used for connecting a computer or fax machine.

Base Top View

USE ONLY CLASS 2
POWER SOURCE

T   P   300mA   TEL LINE
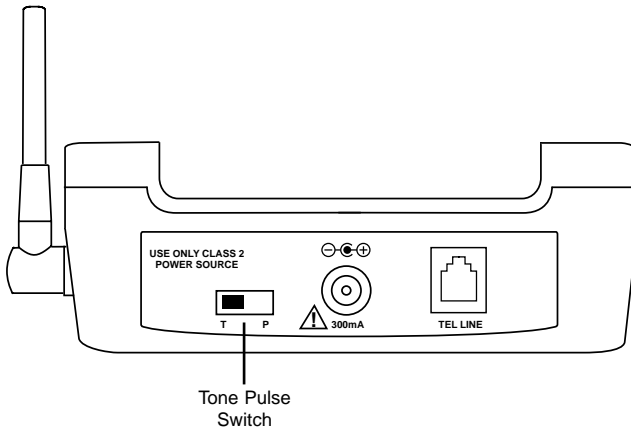
Tone Pulse
Switch

Tone/Pulse Switch
Used to set the dialing method for tone or pulse dialing.

**LCD
Display**

~~~
        SMITH JOHN          ──── Name Character Field

      888-555-1212          ──── Number Field

    12/08  11:46[AM] NEW 28  ──── Message Counter
                     RPT
~~~

Date/Time Display   New and RPT Icons
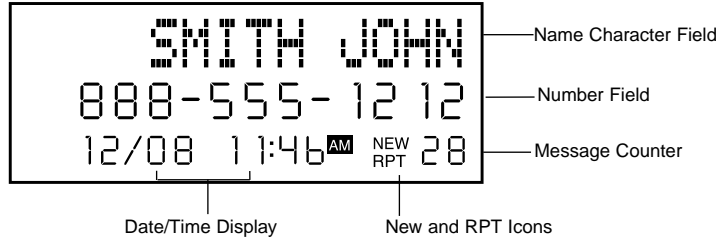
Name Character Field
Displays caller's name and operational menus.

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 and RPT Icons
The **NEW** call icon will flash slowly when a new Caller ID call has been received. The **RPT** icon shows that the same Caller ID number has called more than one time.

Message Counter
The Message Counter will show the total number of Caller ID messages received.

Do the following:
- Choose the best location
- Connect the phone
- Choose the dialing mode

Away from VCR's and TV sets and other electronic equipment

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

Away from noise sources such as a window by a street with heavy traffic

Away from a personal computer

Near a central location and on a level surface

Away from a microwave oven

Away from excessive moisture, extremely low temperatures, dust, mechanical vibration, or shock

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.

Connect the phone
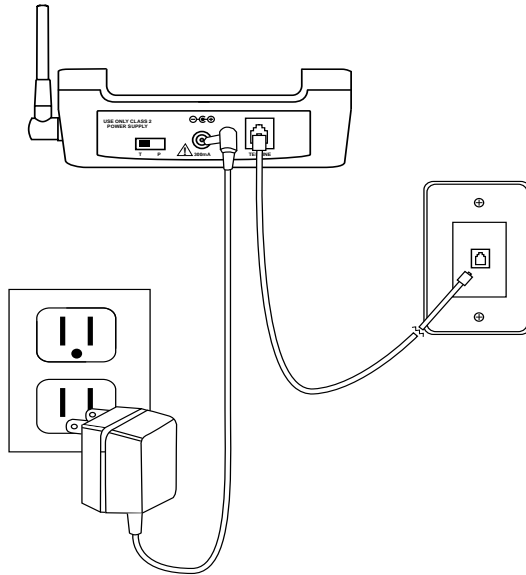
1. Connect the telephone line cord to the **"LINE"** jack and to a telephone outlet.

2. Connect the AC power adapter to the 9V DC jack and to an AC outlet. The **CHARGE** LED on the base lights up.

3. 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.

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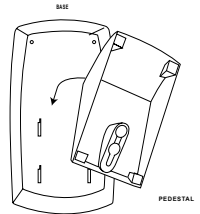
Note: Use only the supplied AC power adapter. Do not use any other AC power adapter. Connect the AC power adapter to a continuous power supply. Place the phone close to the AC outlet so that you can plug in the AC power adapter easily.

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 insure 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.

Pedestal

7. Insert the AC adapter into the **9V DC** jack on the bottom 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.
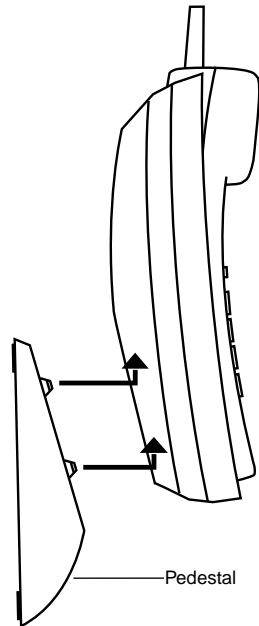
Tone/Pulse Switch

Tone Pulse
Switch
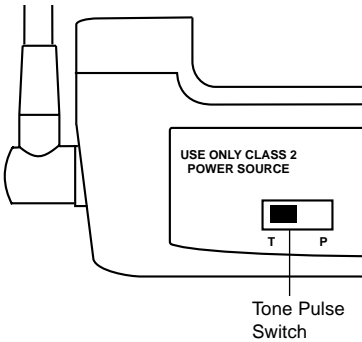
1. Choose the correct dialing mode.

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**.

Ringer Setting

1. To set the ringer level HI/LO on the handset press ▲ ▼ when the handset is idle.

2. To turn the handset ringer **ON** or **OFF**, set the **RINGER** switch located on the handset to the desired position.

Ringer Switch
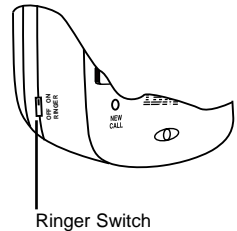
Note: Other ringer options can be programmed on the handset when programming setup functions.

Battery Installation

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

1. Slide open the battery compartment door on the back of the handset.

2. Insert the battery pack so that its connectors line up and plug into those built into the handset.

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.
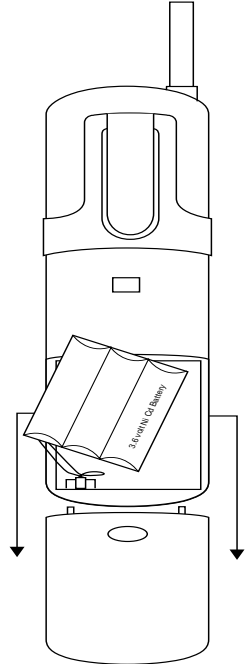
Battery Duration

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 phone will beep.
• The display will show **"BATTERY LOW."**

```
BATTERY LOW

12/08 11:46™   28
```
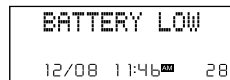
When to Purchase a New Battery Pack

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 **800-955-1009** or on the Internet at **www.ttsystems.com.**
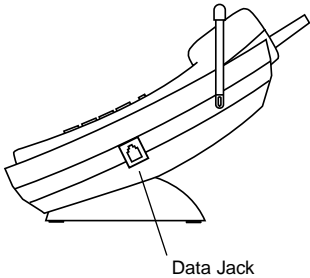
The Data Jack
The jack located on the side of the telephone labeled **"DATA"** is a convenience jack. It is useful for connecting a fax machine or modem when there is no telephone jack available for that device.

Data Jack

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.

Headset Jack

Belt-clip
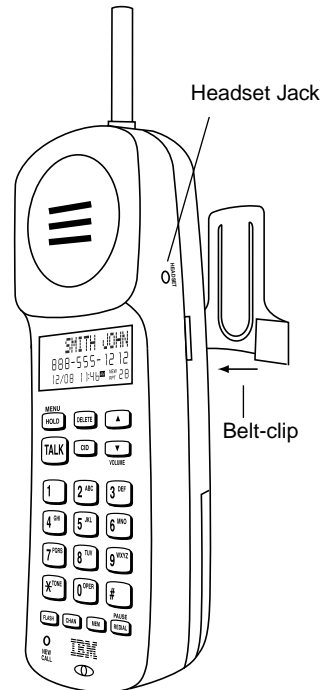
Making Calls

1. Pick up the handset from the base.

2. Press **TALK**. The display will show
    "CONNECTING". Once the IBM-3455 has
    acquired a line the display will show the
    channel that it is using (eg. **CHANNEL 50**).
    Wait until you hear a dial tone.

3. Dial the number you wish to dial.

Note: You can pre-dial the number before you
    press the **TALK** key. The number displayed will
    be dialed once **TALK** is pressed.

4. After 15 seconds of the line being active
    the display will show the call timer.

5. When you are finished talking, press the
    TALK key or place the unit back into the
    base to end the call. The call timer will
    display for a short time after the call has
    finished.
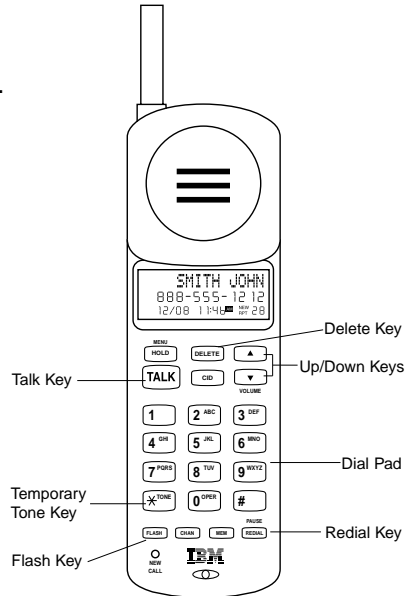
Note: The **CHARGE** light on the base will illuminate when the line is active.

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 ✳ᵀᴼᴺᴱ key after the phone is in use. The phone will remain in tone dialing mode for the duration of the call.
Delete a pre-dialed number or digit	Press DELETE, wait 10 seconds, or place the handset back on the base.
Receive a call waiting call	Press FLASH to go to the new caller. Press FLASH again to go back to the original caller.
Place a call on hold	Press the HOLD key. Press TALK to pick up the line on hold.

Handset Idle

```
12/08  11:46ᴬᴹ
```

Connecting

```
CONNECTING···
12/08  11:46ᴬᴹ
```

Channel

```
CHANNEL 50
12/08  11:46ᴬᴹ
```

Line on Hold

```
LINE ON HOLD
12/08  11:46ᴬᴹ
```

Volume Control

```
VOLUME ✳✳✳
12/08  11:46ᴬᴹ
```

Call Timer

```
00:02:50
12/08  11:46ᴬᴹ
```

Channel Changing

```
SCANNING
12/08  11:46ᴬᴹ
```

New CID Received

```
NEW CALLS 04
12/08  11:46ᴬᴹ NEW 28
```

Line Ringing

```
RINGING
12/08  11:46ᴬᴹ
```

Receiving Calls
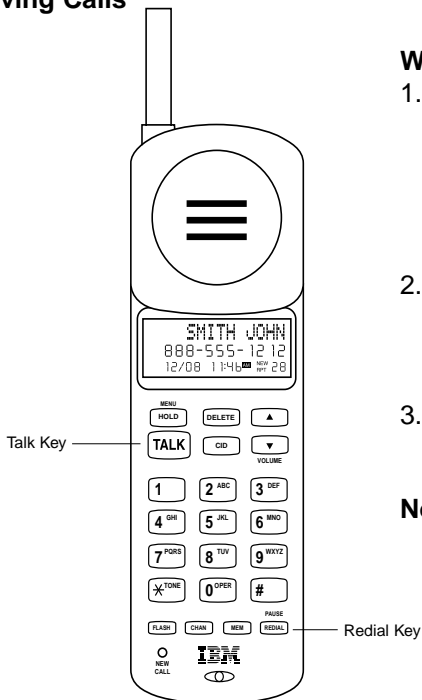
When you hear the phone ring:

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.

2. If the handset is off the base the display will show "**RINGING**." Push **TALK**.

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

Note: If you have Caller ID, the display will show the Caller ID information while the phone is ringing.

Talk Key

Redial Key

Display shows:
SMITH JOHN
888-555-1212
12/08 11:46 NEW RPT 28

Redialing

1. Press **TALK**. The display will show **"CONNECTING"**. Once the IBM-3455 has acquired a line the display will show the channel that it is using (eg. **CHANNEL 50**). Wait until you hear a dial tone.

2. Press **REDIAL**/PAUSE to redial the number last dialed.

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

Remote Hold Release

When a line is placed on hold, any other phone on that line can be used to access the call and hold will be broken from the IBM-3455.

Changing the Handset Settings
You can change the setting on the handset in the options menu.

In the menu options the settings that can be changed are:

- **Ringer Tone:** Change the way the ringer sounds on the handset or turn ringer off.

- **Time and Date Setting:** Change the time and date.

- **Home Area Code:** Setting your home area code for Caller ID dial back.

- **Local Area Codes:** You can set your local area codes if you have 10-digit dialing for Caller ID call back. You can have as many as 8 local area codes.

Hold/Menu Key — Up/Down Keys

- **Call History:** Will allow you to select the Caller ID storing options; Save **"ALL CALLS"**, save **"UNANS CALLS"** (unanswered calls), or save **"NO CALLS"**.

- **Repeat Calls:** Will allow you to select the way repeat Caller ID calls are stored; **"SEPARATE"** will store the repeat calls as separate entries, **"COMBINED"** will store the repeat calls as one entry and the **"RPT"** icon will display for these calls.

- **Call List Order:** Will allow you to program how you view the calls, **"BY TIME"** shows the first call received to the last call received, or **"NEW CALLS"** shows the new Caller ID calls first then the old calls.
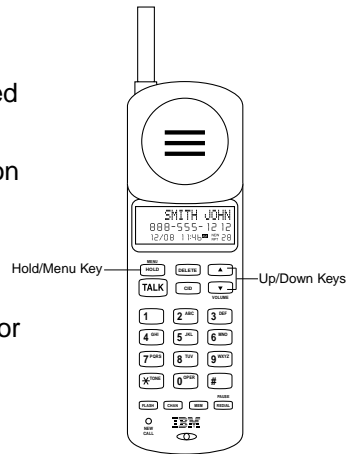
Note: At any time during options programming you can quit and the settings that you have selected will be saved. Quit the options menu by pressing and holding HOLD/MENU or let the options programming time out by not pressing any keys for 20 seconds.

Tip: If within your local area you are required to dial 10-digits (XXX-XXX-XXXX) to dial a local number, use the **"LOCAL AREA CODE"** programming. In this case do not use the **"HOME AREA CODE"** when setting up for Caller ID call back.

Press and hold the [HOLD]/MENU key until the display shows **"RING TONE: A"**. You are now in the options menu.

Handset Settings

Display Shows	To Change Setting	Settings	To Select
"RING TONE: A"	Push the [▲] [▼] to change the setting. **Note**: The ringer will ring to allow you to chose the ring tone that you desire.	A, B, C, D, E, and X X = ringer off	Push [HOLD]
"SET TIME?"	Use the number pad to change the date and time. 1. Enter the date as month/day (mm/dd) as enter each digit, the next digit will flash. Enter the month first then enter the day. **Example:** For February 25 enter 0 2 2 5 2. Next enter the time. Use military time to enter the time correctly. Example: For 1:31PM enter 1 3 3 1 **Note:** If you have Caller ID the time will up-date automatically and you do not need to change this setting.	Date and Time	Push [HOLD]
"HOME AREA CODE" _ _ _	Use the number pad to add or change the home area code.	Home Area Code	Push [HOLD]
"LOCAL AREA CODE" _ _ _ "1ST LOCL CODE" _ _ _ "2ND LOCL CODE" _ _ _	Use [▲] [▼] up or down to go to the first local area code. 1. Use the number pad to add or change the home area code. 2. Go to the next local area code by pressing [▲] [▼] up or down 3. Enter the local area code the same as previously and continue up to 8 local area codes. **Note:**. If you do not have 10-digit dialing in your area **do not** use this feature.	Local Area Code	Push [HOLD]
"CALL HISTORY"	Push the [▲] [▼] to change the setting	"ALL CALLS", "NO CALLS", or "UNANSCALLS"	Push [HOLD]
REPEAT CALLS"	Push the [▲] [▼] to change the setting	"SEPARATE" or "COMBINED"	Push [HOLD]
CALL LIST ORDER"	Push the [▲] [▼] to change the setting	"BY TIME" or "NEW CALLS"	Push [HOLD]

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Speed Dialing
The IBM-3455 will store up to 20 speed dial numbers. (Up to 10 can be programmed for 1-touch dialing)
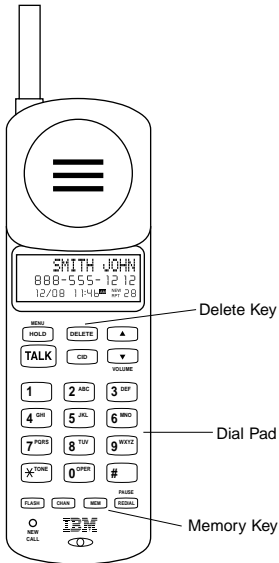
Storing Phone Numbers

1. With the handset in the idle state, press MEM.

2. Dial the number you wish to store (up to 15 digits) and press MEM.

```
888-555- 12
```

3. Enter the name you wish to store using the dial pad to enter the letters. See the letter table for how to program the letters using

```
JOHN SM
888-555- 12 12
```

the number pad. When entering letters if you pause for more than a second, the letter fields will move to the next letter to enter. To add a space between words push **1**.

Delete Key

Dial Pad

Memory Key

```
SMITH JOHN
888-555- 12 12
12/08 1:14 28
```

Example: For **JOHN SMITH** dial this sequence:

5	666	44	66	1	7777	6	444	8	44
J	O	H	N	space	S	M	I	T	H

Press MEM when finished.

4. The next available memory location will automatically be displayed. To accept this press MEM or enter a number for a different location. If there is a memory stored in the location selected the IBM-3455 will ask if you would like to

```
ENTER LOCATION?
888-555- 12 12
28
```

erase the original memory stored. Press the MEM to accept or any other key to reject.

5. When you are finished, press MEM.

SPEED DIALING

Letter Table

Number	First press	Second press	Third press	Fourth press	Fifth Press
1	Space	1	Space	1	Space
2	A	B	C	2	A
3	D	E	F	3	D
4	G	H	I	4	G
5	J	K	L	5	J
6	M	N	O	6	M
7	P	Q	R	S	7
8	T	U	V	8	T
9	W	X	Y	Z	9
0	0	0	0	0	0

Note: If there are no memory locations left in the speed dial directory the IBM-3455 will display **"MEMORY FULL."** You can continue with memory programming and select the location that you want to replace. If you make a mistake, push DELETE. Each time you press DELETE, the last letter or number will be erased.

Tip: The first 10-memory locations that are stored can be used with the one-touch dialing feature of your IBM-3455.

Name Matching
If you have stored names and numbers in the speed dial directory and you receive a Caller ID call with a number that matches a number in the speed dial directory the name that is stored will be displayed with the Caller ID number.
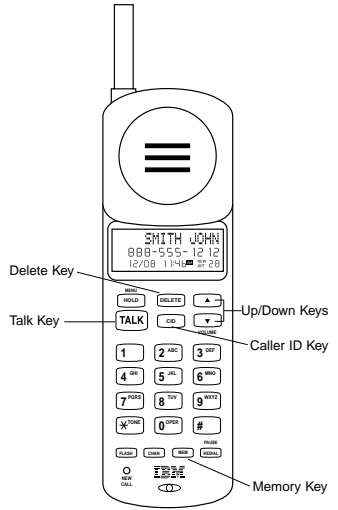
Making Calls With Speed Dialing

One-Touch Dialing
1. To make a call using one-touch dialing, press and hold the number location that the number is stored under. The display will show the number and begin scanning for a clear channel. Then the IBM-3455 will dial the number displayed.

2. When you are finished with your call, press **TALK**, or place the handset back in the base.

Note: Be sure to check that the line is not in use by another extension.

Delete Key

Talk Key

Up/Down Keys

Caller ID Key

Memory Key

SMITH JOHN
888-555-12 12
12/08 11:46AM 27:28

Dialing from Directory
1. To make a call from the speed dial directory press **MEM**.

2. Locate the number you wish to dial using ▲ ▼.

3. Push **TALK**. The display will show the number, and begin scanning for a clear channel. The number displayed is then dialed.

4. When you are finished with your call, press **TALK**, or place the handset back on the base.

Deleting a Stored Number
1. Press **MEM**.

2. Locate the number you wish to delete using ▲ ▼.

3. Press **DELETE**. The display will show **"REMOVE ITEM?"**

REMOVE ITEM?
888-555-12 12
12/08 11:46AM 28

4. Press **DELETE** to delete the speed dial memory.

5. When you are finished press **MEM**.

Caller ID allows the caller's name and phone number to be shown on the display before you answer the call. In order to use this feature you must first subscribe to Caller ID service with your telephone company.

When You Receive a Call
1. When the telephone rings, the caller's name and phone number appears on the display.

```
SMITH JOHN
888-555-1212
12/08 11:46ᴬᴹ ᴺᴱᵂ 28
           ᴿᴾᵀ
```

2. The new Caller ID record includes the name and number of the caller and the time and date the record is received. The New Call light will flash to indicate that you have a new Caller ID call stored in memory.

Note: When the Caller ID information is received, it is stored in memory so that this information can be recalled for later use. Up to 30 Caller ID calls can be stored.

Viewing the Caller ID List
This phone automatically stores the last 30 calls received.

Tip: The IBM-3455 keeps track of all calls received, even if they were not answered depending on how the handset was set up (see handset settings on page 22).

1. With the handset idle press ꧁CID꧁.

2. The most recent call will be displayed. The information on the call will be displayed with the name, number, date, and time that the call was received.

```
SMITH JOHN
888-555-1212
12/08 11:46ᴬᴹ ᴺᴱᵂ 28
           ᴿᴾᵀ
```

3. To scroll to the next call, press ▲ ▼. The ▼ will go through the calls from the last call received to the first. The ▲ will allow you to view the calls from the first call received to the last. Between the first and last call the display will show **"END OF LIST."**
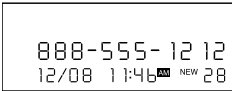
4. Press ꧁CID꧁ to finish.

Caller ID Displays

```
     SMITH JOHN
888-555-1212
12/08 11:46ᴬᴹ ᴺᴱᵂ 28
           ᴿᴾᵀ
```
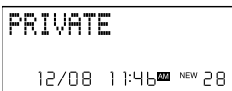Display shows name and number, time and date of the call.

```
888-555-1212
12/08 11:46ᴬᴹ ᴺᴱᵂ 28
```
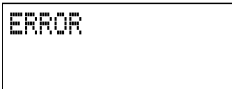Display shows number-only service.

```
UNAVAILABLE

12/08 11:46ᴬᴹ ᴺᴱᵂ 28
```
"UNAVAILABLE" will be displayed when Caller ID information is not available. This call was made from a telephone company that does not offer Caller ID services (including international calls).
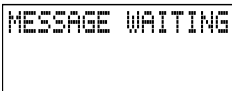
```
PRIVATE

12/08 11:46ᴬᴹ ᴺᴱᵂ 28
```
"PRIVATE" will be shown when a call is received from a blocked number. For privacy reasons, some states allow callers the option to prevent their telephone data from being displayed on the other party's Caller ID display.
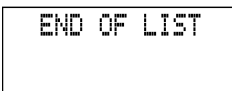
```
ERROR
```
Display shows when the Caller ID information was received incorrectly or only part of the data was received.

Note: When an error is received, none of the data from this call is saved in memory.

```
MESSAGE WAITING
```
Display shows when a voice mail message has been received and is stored by message waiting service provided by the phone company.

```
END OF LIST
```
This is shown between the first and last call when viewing the Caller ID list.

```
NO CALLS
```
This is displayed when [CID] is pressed and there is no Caller ID data stored.

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Caller ID with Call Waiting Service
In order to use the "Caller ID with Call Waiting" service you must subscribe to a telephone company that offers Caller ID service combined with "call waiting" service.

When a new call comes in while you are talking, you will hear a notification beep from the handset and the volume is momentarily muted. The new caller's name and phone number, if available, appears on the display.

```
SMITH JOHN
888-555-1212
12/08  11:46ᴬᴹ ᴺᴱᵂ 28
              ᴿᴾᵀ
```

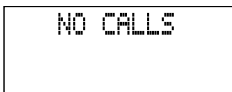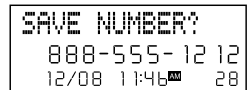1. When you receive a "call waiting" call and you want to connect the call, press FLASH. The active call will be placed on hold and the new call will be active.

2. Press FLASH to alternate between calls.

3. Press TALK to end the call or place the handset back on the base.

Storing a Caller ID Record to the Speed Dial Directory
1. Press CID.

2. Use the ▲   ▼ to scroll to the call record you wish to store.

3. Press MEM.

4. The display will show **"SAVE NUMBER?"**

```
SAVE NUMBER?
888-555-1212
12/08  11:46ᴬᴹ    28
```

5. To save the record press MEM.

6. The display will show **"ENTER LOCATION"** with the next available location blinking.

7. Change the location or press MEM to store the number.

8. The display will show **"STORED."**

9. Press CID to finish.

Deleting the Calls in the Caller ID List

When viewing the Caller ID information you can delete a single call record or all the call records.

To Delete a Single Record

1. Press `CID`.

2. Use `▲` `▼` to scroll to the call record you wish to delete.

3. Press `DELETE`.

4. The display will show **"REMOVE ITEM?"**

```
REMOVE ITEM?
888-555-1212
12/08 11:46ᴬᴹ  28
```

5. To delete the record press `DELETE`.

6. Press `CID` to finish.

To Delete All Records

1. Press `CID`.

2. Press and hold `DELETE`.

3. The display will show **"REMOVE ALL?"**

```
REMOVE ALL?
888-555-1212
12/08 11:46ᴬᴹ  28
```

4. To delete all the Caller ID records press `DELETE`.

5. The display will show **"NO CALLS"**

```
NO CALLS
```

6. Press `CID` to finish.

Returning a Call from the Caller ID Records
You can return calls by using the Caller ID recall feature.
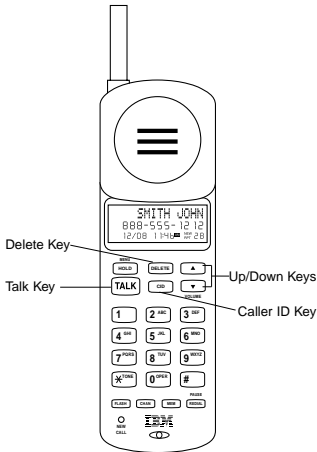
1. Press CID.

2. Use the ▲ ▼ to scroll to the call record you wish to call back.

3. Press TALK.

4. The display will show **"DIAL NUMBER?"**

```
DIAL NUMBER?
1-888-555-1212
  12/08 11:46   28
```

5. Press TALK to dial out the displayed number.

6. To end the call, press TALK.

Delete Key

Talk Key

Up/Down Keys

Caller ID Key

If the number displayed is not correct, (needing 7, 10, 11 digits), do the following before you dial:

7. Press ▲ ▼ to toggle among 7, 10, 11 digit numbers to be dialed out.

8. Press TALK to dial the number displayed.

9. Press DELETE to cancel dialing.

10. To end the call, press TALK, or place the handset back in the base.

Tip: If you set up your home area code and local area codes in the handset setup mode, you will not have to adjust the number between 7, 10 or 11 digit dialing. (See handset settings on page 22 for setup information).

```
DIAL NUMBER?
1-888-555-1212
  12/08 11:46   28
```

Press ▲

```
DIAL NUMBER?
      555-1212
  12/08 11:46   28
```

Press ▲

```
DIAL NUMBER?
    888-555-1212
  12/08 11:46   28
```

When you are ready to dial the number, press TALK. The number displayed will dial out.

MESSAGE WAITING

Message Waiting*

If you subscribe to voice mail from the
telephone company and if there are voice
messages that have been left in your voice
mailbox, the display will show **"MESSAGE
WAITING**.**"**

```
MESSAGE WAITING
12/08  11:46ᴬᴹ ᴺᴱᵂ 28
                 ᴿᴾᵀ
```

*Note: This function requires voice mail subscription from the local telephone
company. Furthermore, the local phone company must provide a type of
voice mail signaling called "FSK." Not all telephone companies have the
visual message waiting feature available. Please contact your local
telephone company to check if this is available in your area.

Tip: If you wish to delete the "Message Waiting" message, delete all the
Caller ID messages (see "Deleting the Calls in the Caller ID List" on
page 29).

New Call Light

When you receive a Caller ID message, voice mail message, or when the phone
is ringing, the New Call light will flash accordingly.

• When ringing, the New Call light will flash
  rapidly.

• For Caller ID, the New Call light will flash to
  indicate that you have a new Caller ID call
  stored in memory.

• When you have a voice message waiting the
  New Call light will flash at a slow rate.
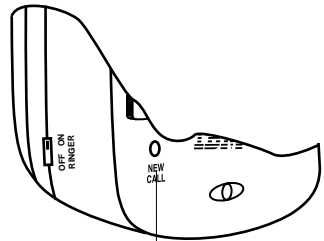
New Call Light

Using the Handset Finder (PAGE)
1. Press **PAGE** on the base. If the handset is within range, the handset will beep for 30 seconds.
2. Press any key on the handset to stop the page/find feature.

Out-of-Range Warning
If you venture too far from the base, the handset will beep and the display will show **"OUT OF RANGE."** Reverse your direction to re-establish connection with the base or the call will be dropped. When the base detects that the handset has been out of range for 15 continuous seconds it will release the engaged line.

Channel Changing
If you are experiencing interference during a telephone call, press the **CHAN** key. The IBM-3455 will scan up to 50 channels and select the clearest one to provide the best possible reception.

CARE AND MAINTENANCE

Your IBM-3455 telephone has been designed to give years of trouble-free service. It is a sensitive electronic instrument. To assure its longevity, please read the following maintenance instructions.

1. Keep the IBM-3455 away from heat as high temperatures can shorten the life of the electrical components and distort or melt its plastic parts.
2. The IBM-3455 should be kept free of dust and moisture. If it gets wet, wipe it dry immediately. Liquids can contain minerals that can corrode electronic circuits.
3. Handle your IBM-3455 gently and carefully. Dropping it can cause serious damage to circuitry, or the plastic case, which may result in malfunction.
4. Do not use any type of chemical or any abrasive powder to clean the cabinet. Use only mild detergents on a soft, damp cloth to clean the IBM-3455 telephone.
5. The IBM-3455 has built-in surge protection circuits that meet or exceed FCC requirements. However, an incident such as a lightning strike at or near the telephone lines, could cause serious damage.
6. If the IBM-3455 is installed in an area with frequent or severe electrical storms, it is suggested that the telephone be disconnected during these storms or that additional surge suppression equipment be added to the installation.
7. In the case of trouble with the telephone, do not attempt to repair the telephone yourself. It is the responsibility of users requiring service to report the need for service to our Service Department. They will make the necessary arrangements for repair or replacement.
8. If you should have any questions about the operation of your IBM-3455 telephone, please call our Service Department at **1-800-955-1009**, between the hours of **9:00 A.M.** and **9:00 P.M.** Eastern time **Monday - Friday**. Or you may contact TT Systems LLC for technical assistance via our Internet Web site: **http://www.ttsystems.com** or e-mail: **tech@ttsystems.com**.

No dial tone/phone will not dial out.
• Check that you have plugged the AC power adapter into a working AC power outlet.
• Check all telephone cord connections or try another wall jack.

Can't hear the ring signal.
• Check the ringer volume controls; at the lowest level the ring may not be heard.

While on a call, you hear another call on the line or experience radio frequency interference.
• Switch channels to a clear channel.
• Check the wiring for bad connections.

The caller's name and/or phone number does not appear on the display.
• Make sure you have subscribed to Caller ID service (from local telephone company).
• Caller ID service may not work when the phone is connected to a Private Branch Exchange (PBX).
• The call is coming from an area not supplying caller ID data. **"Out of Area"** will appear on the display.
• The caller has requested that their phone number be suppressed from Caller ID service. **"Private"** or **"Unavailable"** will appear on the display.
• You answered the call before Caller ID data was displayed, which usually occurs after the second ring.

New Call/Message Waiting Indicator doesn't work properly.
• Make sure you have subscribed to voice mail compatible with "FSK" type signaling (check with your local phone company). If your voice mail product from the local phone company does not support "FSK" signaling, you may use this feature as a New Call Indicator only.

Can't receive or make phone calls.
• Check to be sure the phone is set to the correct type of service, either Tone or Pulse.

WARRANTY

Statement of limited warranty: TT Systems LLC warrants that for a period of one year from the date of purchase that this product 1) is free from defects in materials and workmanship and 2) conforms to its specifications. If this product does not function as warranted during the warranty period, TT Systems LLC, at its option, will either replace this product with one that is functionally equivalent or will refund your purchase price. These are your exclusive remedies under this warranty. Please call 1-800-955-1009 for warranty service.

This product is distributed and sold by TT Systems LLC, 7 Odell Plaza, Yonkers, New York 10701, the official licensee for this product. IBM, the IBM logo trademarks and the IBM trade dress are owned by International Business Machines Corporation and are used under a license from IBM. IBM does not manufacture this product and provides no warranty or support for this product. Please contact TT Systems LLC at 1-800-955-1009 for all questions/comments and service or support related to this product.

TT Systems LLC warrants that the IBM-3455 sold by TT Systems LLC within the continental limits of the United States, Hawaii and Alaska, are free from defects in materials and workmanship under normal use and service for 1 year. This warranty is applicable only to the original purchaser of the IBM-3455, when accompanied by a sales receipt stating the date of purchase and name of the company from which purchased. This warranty is in lieu of and excludes all other warranties, expressed or implied, including any implied warranty of merchantability or fitness, and of any other obligation on the part of TT Systems LLC.

If the IBM-3455 shall prove to be defective, then TT Systems LLC shall either replace, repair or refund the purchase price of the IBM-3455 at its discretion as follows: at no cost to the original purchaser except shipping charges, within 90 days of the date of purchase.

From 91 days to 365 days, you may return the IBM-3455 to TT Systems LLC at the following address: TT Systems LLC, **4 Executive Plaza, Yonkers, New York 10701**. Shipping charges are at the customer's expense. Please include a copy of your sales receipt and a check or money order made out to TT Systems LLC for the amount of $14.50 to cover shipping and handling.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. There is no informal dispute settlement mechanism available. This warranty will be voided by misuse, improper physical environment, accident, or improper maintenance by you.

THIS WARRANTY REPLACES ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THESE WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF EXPRESS OR IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU. IN THAT EVENT, SUCH WARRANTIES ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. NO WARRANTIES APPLY AFTER THAT PERIOD.

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UNDER NO CIRCUMSTANCES IS TT SYSTEMS LLC OR IBM LIABLE FOR ANY OF THE FOLLOWING: (1) THIRD-PARTY CLAIMS AGAINST YOU FOR LOSSES OR DAMAGES (OTHER THAN THOSE UNDER THE FIRST ITEM LISTED ABOVE); (2) LOSS OF, OR DAMAGE TO, YOUR RECORDS OR DATA; OR (3) SPECIAL, INCIDENTAL OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS), EVEN IF TT SYSTEMS LLC OR IBM ARE INFORMED OF THEIR POSSIBILITY. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU.

TT Systems LLC reserves the right to make changes in the design of the IBM-3455 and to make additions or improvements to the IBM-3455 without incurring any obligation to modify any IBM-3455 previously sold.

GLOSSARY

Useful Features and Terms

Calendar/Clock — Visual display of date, day and time.

Caller ID — Enables users to view name and number of callers. Contact your local telephone company to subscribe to Caller ID Service.

Caller ID Log — Stores up to 30 Caller ID entries.

Call Timer — Allows timing of phone conversations.

Data/FAX Port — Allows connection of a PC or FAX machine directly into the phone versus a wall outlet. Requires line 2 connection.

Dial from Display — One-button dialing from the Caller ID log.

Display — The Liquid Crystal Display (LCD) shows clock and calendar, number dialed, low battery indicator, Caller ID information and call timer.

Flash — A signal sent by the phone to the local telephone company supporting services such as call waiting.

Hold — Permits user to place a call on hold. Allows access by that user or by any other extension in the system.

Message Waiting Indicator — A visual indicator that there are new messages in your voice mail box. Requires FSK signaling by phone company. Contact your local telephone company to subscribe to Voice Mail Service.

Mute — Prevents the party on the other end of the line from hearing local conversation

New Calls Indicator — A visual indicator that new calls have been received.

Redial — Performs single button dialing of last number dialed.

Ringer Level Control — Permits adjustment of the ringer volume level.

Speed Dialing — Allows programming of frequently dialed numbers so that they can be dialed with the two touch speed dial button. (20 entries)

Tone/Pulse Option — Enables you to switch from pulse (rotary) to tone dialing

Volume Level Control — Permits volume adjustment of the handset and headset during a conversation.

FSK type Signaling – A signal used to turn on and off the message waiting indicator, can be sent by the telephone company with a ringing signal or without.

To order a replacement battery pack for the IBM-3455 cordless telephone, please mail this order form to the IBM licensee for this product.

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