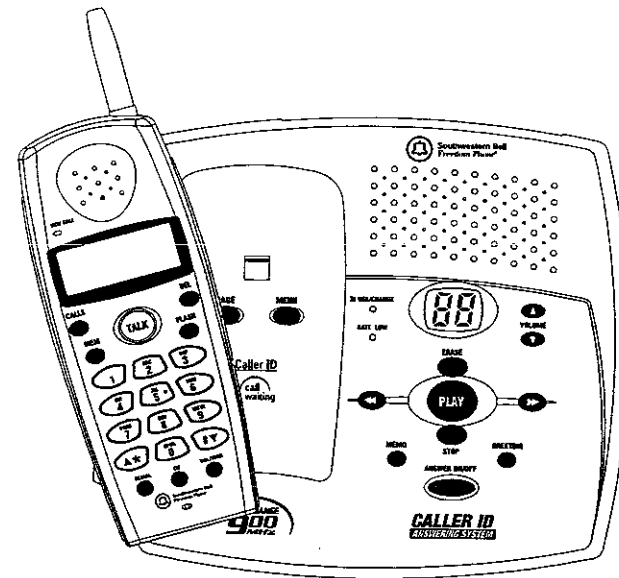




Southwestern Bell
Freedom Phone®

**900MHz Cordless Telephone with Call Waiting
Caller ID and Digital Answering System**



**STOP - DON'T TAKE ME BACK TO THE STORE.
LOOK - FOR THE TOLL-FREE "HELP" TELEPHONE NUMBER.
LISTEN - AS THE EXPERTS TALK YOU THROUGH THE PROBLEM.**

For immediate answers to your questions regarding operation,
missing parts or installation, call:

Southwestern Bell Freedom Phone®
Retail Sales Help Line at

1-800-366-0937

Monday - Friday 8:30 a.m. - 9:00 p.m. EST

Saturday 8:30 a.m. - 12:30 p.m. EST

[http:// www.swbfreedomphone.com](http://www.swbfreedomphone.com)

SOUTHWESTERN BELL FREEDOM PHONE
7475 N. GLEN HARBOR BLVD., GLENDALE, AZ 85307

FF2150

Printed in China

IB-3884F

FF2150 OWNER'S MANUAL

Toll Free Helpline 1-800-366-0937

<http://www.swbfreedomphone.com>

PLEASE READ IMPORTANT SAFETY INSTRUCTIONS BEFORE USE.

Congratulations!

You have purchased a 900MHz Cordless Telephone with Call Waiting Caller ID and an All Digital Answering System that has been manufactured to the highest standards of SOUTHWESTERN BELL FREEDOM PHONE® Retail Sales. Its "DIGICLEAR PLUS™" circuitry combines noise filtering with state of the art technology that reduces background noise from your telephone conversations. Special compander circuitry compresses, then expands, the transmitted signal to enhance clean, clear audio.

BEFORE INSTALLING AND OPERATING THIS TELEPHONE, IT IS VERY IMPORTANT THAT YOU READ THIS OWNER'S MANUAL.

FCC statement

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.

NOTE: 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 instructions, 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 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.

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

IMPORTANT SAFETY INSTRUCTIONS

BEFORE USING YOUR TELEPHONE EQUIPMENT, 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. Unplug this product from the wall telephone jack and power outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water: for example, near a bathtub, wash bowl, kitchen sink, laundry tub, swimming pool, or in a wet basement.
5. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage.
6. Slots or openings in the cabinet and the back and 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 a bed, or other similar surface. This product should never be placed near or over a radiator or heat register.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not place this product where the cord will be damaged by persons stepping on it.
9. Do not overload wall outlets and extension cords, as this can result in fire or electric 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. This could result in fire or electric shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not disassemble this product. Instead, when service or repair work is required, take it to a qualified service technician. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
12. Unplug this product from the wall outlet 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 and proper operating instructions have been followed, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. If the product has been dropped or the cabinet has been damaged.
 - f. If the product exhibits a distinct change in performance.
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 the telephone to report a gas leak in the vicinity of the leak.
15. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Safety Instructions for Batteries

Handset Battery Pack

CAUTION:

Use only a Southwestern Bell Freedom Phone® approved battery pack in the handset of your FF2150 Cordless Telephone. To reduce the risk of fire or injury, always do the following when replacing, discarding or charging batteries. When handling the batteries, be careful not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conducting material may overheat and cause burns.



CONTAINS NICKEL CADMIUM BATTERY. MUST BE RECYCLED OR DISPOSED OF PROPERLY. DO NOT DISPOSE OF IN MUNICIPAL WASTE.

- a. Use only the following type and size batteries in the cordless phone: Self-contained 3-cell Nickel-Cadmium rechargeable battery supply, GP40 AAK 3BMX 3.6V 400mAh or 3.6V 400mAh D-2/3AA400x3 or JB40AA2/3N3BMX GPI International Ltd. BYD Company Ltd. JB Energy (HK) Ltd.
- b. Do not dispose of the battery pack in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
- c. Do not attempt to open or mutilate the battery pack. The chemicals are dangerous and may cause damage to the eyes or skin, and may be toxic if swallowed.
- d. Follow the charge instructions outlined in this manual. (See page 11)

The RBRC™ Seal on the nickel-cadmium (Ni-Cd) battery indicates that Southwestern Bell Freedom Phone® Retail Sales 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 within the United States. The RBRC™ program provides a convenient alternative to placing spent nickel-cadmium batteries into the trash or municipal waste stream, which is illegal in some areas.

Southwestern Bell Freedom Phone® Retail Sales' payments to RBRC™ makes it easy for you to drop off the spent battery (or battery pack) at local retailers of replacement nickel-cadmium batteries. You may also contact your local recycling center for information on where to return the spent battery (or call the toll-free RBRC™ information line at 1-800-8BATTERY). Our involvement in this program is part of our commitment in protecting the environment and conserving natural resources.

RBRC™ is a trademark of the Rechargeable Battery Recycling Corporation.

Save These Instructions

Handset Battery Caution

CAUTION:

To Reduce the Risk of Fire or Injury to Persons, Read and Follow These Instructions.

1. Use only the following type and size batteries in the cordless phone: Self-contained 3-cell Nickel-Cadmium rechargeable battery supply. GP40 AAK 3BMX 3.6V 400mAh or 3.6V 400mAh D-2/3AA400x3 or JB40AA2/3N3BMX GPI International Ltd. BYD Company Ltd. JB Energy (HK) Ltd.
2. Use only the following type and size battery in the base unit: 9V (1604) Alkaline Battery.
3. Do not dispose of the battery(ies) in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
4. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
5. Exercise care in handling batteries in order not to short the battery with conducting material such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
6. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
7. Do not mix old and new batteries in this product (applies to products employing more than one user replaceable second battery).
8. Do not mix batteries of different sizes or from different manufacturers in this product (applies to products employing more than one user replaceable secondary battery).
9. Do not attempt to recharge the battery(ies) provided with or identified for use with this product. The batteries may leak corrosive electrolyte or explode.
10. Do not attempt to rejuvenate the battery(ies) 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 the eyes or skin.
11. 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 explosions. (Applies to product employing more than one separately replaceable primary battery).
12. 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.
13. Discard "dead" batteries as soon as possible since "dead" batteries are more likely to leak in a product.
14. Do not store this product, or the batteries provided with or 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.

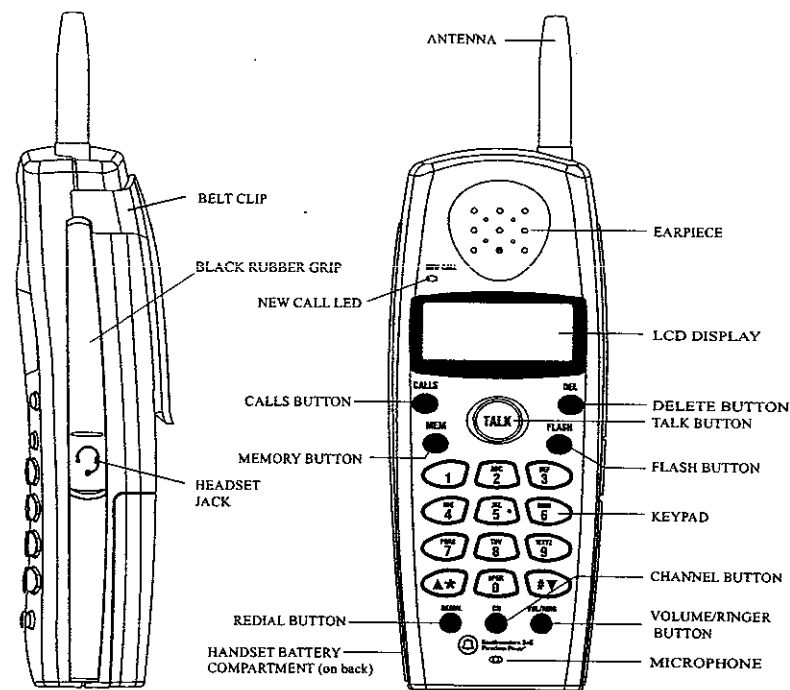
Southwestern Bell Freedom Phone FF2150 Cordless Telephone

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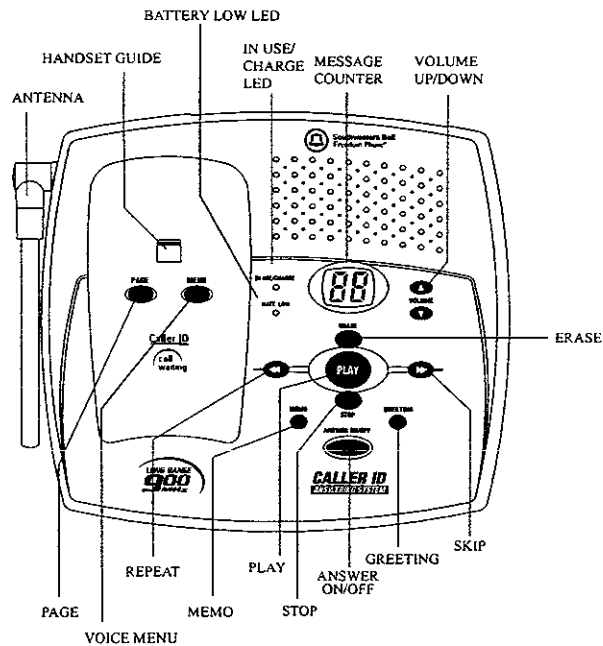
Handset Diagram

HANDSET CONTROLS: The diagram below shows the controls of the FF2150 Handset.

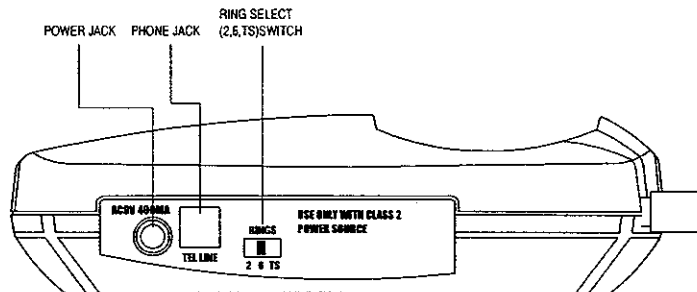


Base Diagram

BASE CONTROLS: This diagram shows the controls of the FF2150 Base.



REAR VIEW



Traits of Cordless Telephones

A. Cordless telephones offer convenience and mobility during telephone conversations. The use of cordless telephones is dependent upon the availability of AC power. Any disruption of electrical power at your location will prevent the placing or receiving of telephone calls. It is recommended that a cordless telephone should not be installed as the only phone at your location.

B. The usable range of the cordless handset away from the base is dependent upon many factors. The telephone base is like a radio transmitter in that it transmits telephone line signals via radio waves to the handset. Therefore, the location of the base is important in order to maximize the usable range. For example, installing the base on the second floor, in some locations, will provide longer range than a ground floor installation. Pick a location that gives you the clearest signal. The following can adversely affect usable range:

- aluminum siding
- insulation with foil backing
- any metal construction which could shield radio signals.

Atmospheric conditions also play an important role in the performance of your cordless telephone.

Interference can be caused by placing the base near:

- fluorescent lights
- appliances that generate electrical noise, including:
 - microwaves
 - televisions
 - VCR's
 - baby monitors
 - computers

C. Always keep the base antenna fully upright.

D. For maximum performance, always keep the battery pack fully charged.

E. Plug your phone directly into an outlet, not an extension cord.

F. Do not plug other appliances into the outlet or have the outlet controlled by a wall switch.

G. If you want to use more than one cordless telephone in your home, the telephones must operate on different channels. Press the channel key to select a channel that provides the clearest communication.

Installation

Box Contents

Before installing your phone, check the shipping carton to be sure you have the following:

- Base Unit
- Short and Long Telephone Line Cord
- Remote Access Card
- Handset with Rechargeable Battery
- Quick Installation Guide
- AC Adaptor with Cord
- Owner's Manual
- Wall Mounting Bracket

Notes:

- Keep the shipping carton and packaging, in case you need to transport your phone.
- If there is visible damage, do not use this equipment. Contact your shipping agent or return the telephone to the place of purchase.

Preliminary Preparation

Telephone Line Installation

- Never install telephone jack during a lightning storm.
- Never install telephone jack in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.

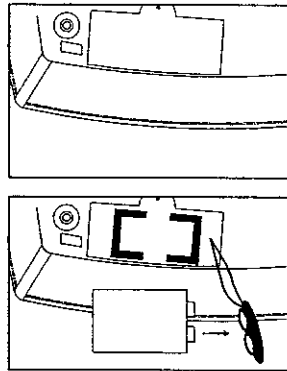
Modular Outlet

The FF2150 Cordless Telephone operates from a standard 110/120 volt outlet. The handset is powered by a rechargeable battery pack. Batteries are charged automatically when the handset is placed in the cradle of the base unit.

Battery Backup

One 9 volt battery (not included) is required to maintain your personalized Greeting and recorded messages during a power failure. If there is a power failure and the battery is not installed, both your personalized Greeting and recorded messages will be lost.

- Make sure AC adaptor is unplugged from electrical outlet.
- On the bottom of the base, press on the tab (toward the battery compartment door), and then lift the door away from the unit.
- Install one 9 volt battery.
- Replace battery compartment door.
- Install a replacement battery once a year to ensure proper operation of the power failure protection feature. Your BATT LOW LED will flash rapidly until a 9 Volt battery is installed. Your unit is fully functional. Battery is needed for power failure back up ONLY.



Installation (Cont.)

Table/Desk Installation

A. Plug one end of the long telephone line cord into the back of the unit and connect the other end to a modular wall jack. Press until locking lever clicks (Fig. 1)

B. Connect the AC Adaptor into the back of the unit. Plug the other end into a standard 110/120 volt outlet (Fig. 1)

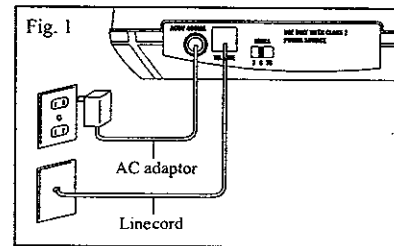
C. The message counter will show 'AA' flashing. The unit is checking its memory, and you should not press any buttons.

D. When you plug in your unit for the first time, it will take approximately 19 seconds for the unit to check its memory. When the memory check is complete, your system will announce "Unit Ready" and will reset to answer incoming calls. It will answer incoming calls with a prerecorded greeting; "Hello. We are not available now; please leave your name and number after the beep." To record a personalized greeting refer to page 23.

E. Raise antenna on base for best reception.

F. Place the handset into the base. The handset will beep, and the IN USE/CHARGE LED will light.

NOTE: BATTERY PACK MUST BE CHARGED FOR 10-14 HOURS BEFORE INITIAL OPERATION.

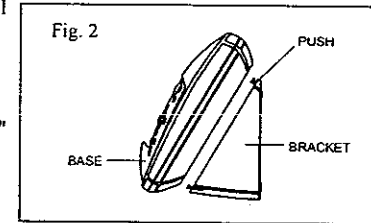


Wall Mounting

THE FF2150 CAN BE MOUNTED ON A STANDARD WALL PHONE PLATE. IF ONE IS NOT AVAILABLE, IT CAN ALSO BE MOUNTED ON TWO SCREWS (NOT INCLUDED), INSTALLED 3-1/4 " VERTICALLY APART IN THE WALL. LEAVE 3/16" OF EACH SCREW EXPOSED FOR MOUNTING THE UNIT.

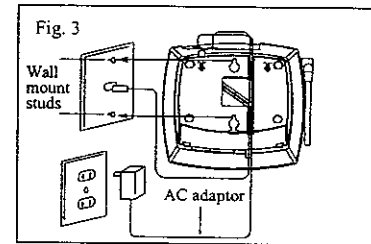
A. Connect the desk/wall bracket to the bottom of the base in the wall mount position (Fig.2). You can remove the bracket from the base by pushing on the tab of the bracket.

B. Place one end of the short telephone line cord into the modular jack marked TEL LINE located at the back of the base. (Fig.1)



C. Place the other end of the line cord into the recessed area in the bottom of the wall mount bracket, and plug into the telephone wall jack.

D. Position the wall mount slots on the bottom of the bracket over the two studs on the wall plate. Pull down and lock into place (Fig. 3).



Installation (Cont.)

E. Connect the AC adaptor into the back of the unit and plug the other end to the 110/120 volt outlet.

F. The Message counter will show 'AA' flashing. The unit is checking its memory, and you should not press any buttons.

G. When you plug in your unit for the first time, it will take approximately 19 seconds for the unit to check its memory. When the memory check is complete, your system will announce "Unit Ready" and will reset to answer incoming calls. It will answer incoming calls with a prerecorded greeting "Hello, we are not available now; please leave your name and number after the beep." To record a personalized greeting, refer to page 23.

H. Raise antenna on base for best reception.

I. Place the handset into the base. Make sure that the handset guide (on the base) fits securely into the slot underneath the handset earpiece. The handset will beep, and the IN USE/CHARGE LED will light.

Handset Battery Charging

The battery pack in the handset must be fully charged for about 10-14 hours before using the telephone. The Answering Machine may be used prior to the handset being fully charged. An extension telephone will be required until the handset is charged.

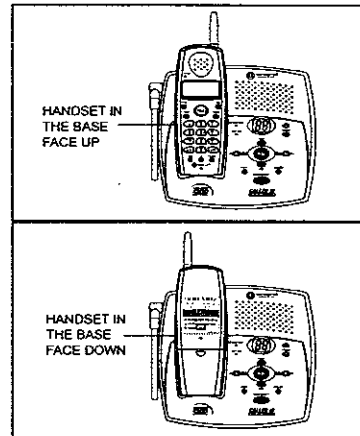
After connecting the unit to AC power, leave the handset in the base cradle for ten to fourteen hours before first using it. Later, it will take less time for the battery to recharge. The IN USE/CHARGE LED on the base will be lit. When the handset is in the cradle.

Note:

- When the battery gets low, there will be a low-battery beep every 10 seconds from the handset. The handset will display "BATTERY LOW" on the bottom line.
- If the battery becomes low while you are on a call. Terminate the call quickly and put the handset in the base to recharge the battery.
- The battery will hold its charge for several days out of the cradle, depending on use.

Dual Charge

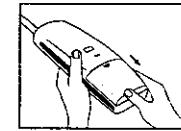
The FF2150 is specially designed with a dual charge feature. The battery pack will charge whether the handset is placed on the base facing up OR facing into the base.



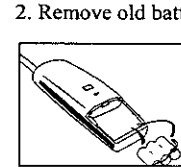
NOTE: When the belt clip is connected to the handset, the handset can only charge correctly with the keypad facing into the base.

Installation (Cont.)

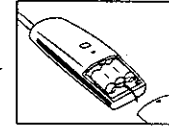
To Replace Batteries:



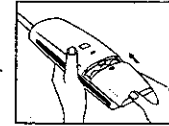
- Remove battery cover.



- Remove old battery.



- Install new battery.

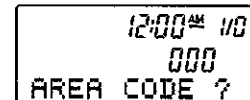


- Close battery cover. Charge 10-14 hours before first use.

Note : To maximize your battery's life, we recommend that you periodically fully drain the battery and then recharge it. To do this, unplug your phone line cord from your wall phone jack. Press the "TALK" button and allow the handset to remain on for 10 to 12 hours. Return the handset to the base and allow to fully charge for 12 hours. If this process is completed monthly, it will reduce the memory build-up that occurs from frequent partial charging.

Initial Setup

- After installing the FULLY CHARGED handset battery, the handset display will light and will show "AREA CODE ?".



- Enter your 3-digit local area code using the handset keypad.



- After selecting the third digit, press the "MEM" button to confirm the displayed area code. The display will show Date/Time screen. The time and date will be automatically updated when the first Caller ID call is received.

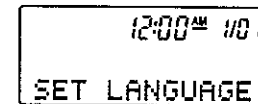


Note: Your FF2150 will always stay in area code setup mode, until you enter the area code. However, it will still record the Caller ID information and voice messages.

Caller ID & Remote Access code

To Set Language

- To set up the Caller ID and Remote Access code, press the "CH" button for a second in the Date/Time screen. The handset display will light and will show "SET LANGUAGE".



- You can choose to see your LCD indications in English, French or Spanish. Press the "▲*" or "#▼" button to choose the desired language.



- Press the "MEM" key to confirm the display language. The unit will begin to set the area code.

Caller ID Setup/Telephone Operation

To Set Area Code

Note : In order for the Caller ID Redial feature to work properly, you must set your local area code.



1. Enter your 3-digit local area code, using the handset keypad.
2. After selecting the third digit, press the "MEM" button to confirm the displayed area code. The unit will begin to set the remote access PIN code.

To Set Remote Access Code

Note: In order to access your answering machine remotely (see page 27), The default pin code is "88".



1. Enter your 2 digit pin code, using the handset keypad. The entered digits will display on the handset and will shift to the left, one by one, after you enter the first digit.
2. Press "MEM" key to confirm the displayed code. The unit will begin to set the handset display contrast level.

To Set Handset Display Contrast



1. Press the "▲*" or "#▼" button to adjust the display contrast to the desired level (lighter or darker).
2. Press the "MEM" button to confirm the displayed contrast level, than the display will revert to the Date/Time screen.

Note:

1. If you delay more than 20 seconds in between any of the above steps, the unit will revert to the Date/Time screen.
2. To adjust the handset LCD display contrast while in the standby mode, press the "FLASH" button. Then press the "▲*" or "#▼" button to set the desired contrast. Press "MEM" button to confirm the contrast level.
3. Put the handset back to the charge cradle after setup is completed.

Digital Security System

Your FF2150 Cordless Telephone is equipped with a digital security coding system to protect your base unit from being accessed by other cordless telephones.

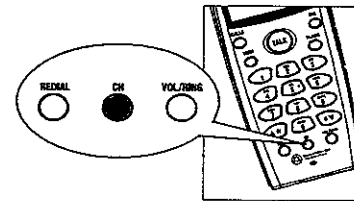
The code allows your base and handset to recognize each other so that other cordless phones will not make calls on your line. If the AC adaptor is disconnected or a loss of power occurs while the handset is away from the base unit, the security code will be lost and the phone will be inoperable. If this occurs, reconnect the AC adaptor and return the handset to the base unit so that the security code is reset. The base will beep to confirm that the security code has been reset. When the handset is not in the base, only a handset having the identical security code and operating on the same channel can access the base and use your phone line. When the handset is in the base, no other handset, even those having the identical security code and operating on the same channel can access the base and use your line.

Digital security coding will also eliminate the "false" ringing associated with cordless telephones not equipped with this feature.

Telephone Operation (Cont.)

40 Channel Operation

Your cordless telephone has 40 operating channels. The phone will automatically search and select the clearest channel when you pick up the handset and press the "TALK" button. If you hear noise or other interference during your conversation, you can manually select a clearer channel by pressing and releasing the channel control on the handset to switch to another spare channel. Your call will not be interrupted.

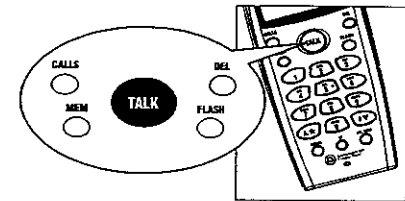


Note:

You must be in usable range to change channels. When you are close to being out of range, you may lose the call. If this occurs, place the handset back into the base for ten seconds to reset the security code and then make the call again.

Making a Call

1. Make sure the base antenna is fully upright.
2. Lift the handset and press the "TALK" button to be connected to the phone line. The handset display will show TALK, and the Base MESSAGE COUNTER will show "in".



3. After hearing a dial tone, dial the desired number.
4. If you misdial, simply press the "TALK" button, wait for a couple of seconds, and press the "TALK" button again for a new dial tone.
5. After your conversation is completed, press the "TALK" button once to disconnect the line, the IN USE/CHARGE LED on the base will turn off or return the handset to the base.

Receiving a Call Through the Handset When the Phone Rings

1. IF THE HANDSET IS OUT OF THE CRADLE, press the any key on the handset.
2. IF THE HANDSET IS IN THE CRADLE, lift the handset. DO NOT press the "TALK" button, as you will be connected automatically.

Telephone Operation (Cont.)

Note:

If you experience difficulty with placing or receiving calls, the lost security code may be the cause of the problem. When this occurs, the handset can no longer communicate with its base. The loss of the code can occur any of the following ways: the battery is drained and needs recharging; the AC adaptor is disconnected or a power loss has occurred; or anything that causes electrical interference, for example, multiple cordless telephones, baby monitors, televisions, VCR's etc. Reset the security code by placing the handset on the base for 10 seconds, removing it from the base, then replacing it on the base for an additional 10 seconds.

The unit will beep and you can now make the call. If that does not work, make sure AC adaptor is connected. If necessary, unplug the AC adaptor from the power source. Disconnect the battery for 5 seconds and then reconnect. Place the handset on the base and then replug the AC adaptor (see Troubleshooting). Let stand 2 minutes before use.

Headset Jack

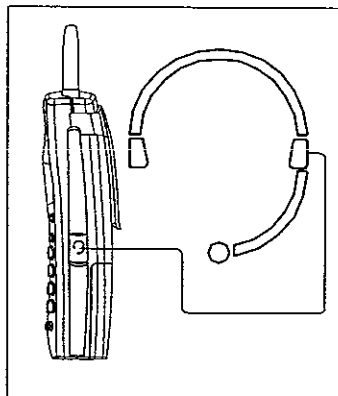
You can connect a headset (not included) for hands-free conversations.

1. Insert the headset plug (must be 3/32 inch/ 2.5mm type) into the headset jack on the side of the handset.
2. Attach the belt clip to the back of the handset. Make sure the "arms" of the belt clip snap securely into the notches on the side of the handset. You can now attach the handset/belt clip to the desired location on your clothing.
3. Adjust the headset microphone to a comfortable position, placing it near your mouth.
4. Press the "TALK" button to make or receive a call.

5. To remove the belt clip from the back of the handset, use your fingernails to loosen one of the "arms" of the belt clip. The other "arm" of the belt clip will automatically release from the handset.

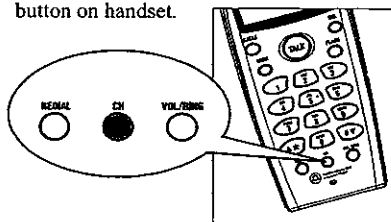
Note:

- When the belt clip is connected to the handset, the handset can only charge correctly with the keypad facing into the base.
- You can purchase a headset through our help line at 1-800-366-0937, our secure website at <http://www.swbfreedomphone.com>, or your local retailer.



Out of Range

If you experience static while using the telephone, move closer to the base or change the channel by pressing the "CH" button on handset.



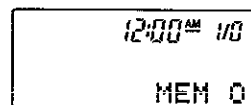
Telephone Operation (Cont.)

Memory Features

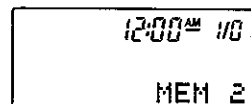
Your FF2150 is equipped with 10 memories for programming your most frequently dialed telephone numbers. You can store up to 16 digits in each of the memory locations 0 through 9, by following the steps outlined below. A record of the numbers to be speed-dialed may be kept on the speed dialing numbers index on page 40.

To Program Frequently Called Numbers

1. Press the "MEM" button on the handset, and the display will show "MEM x", with "x" representing the memory location that is currently displayed.

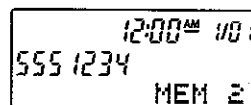


2. Press the "▲*" or "#▼" button to select the memory location where the telephone number is to be stored. You can choose from MEM 0-MEM 9.



Note : If a particular memory location is not empty, the display will show the current memory location and telephone number.

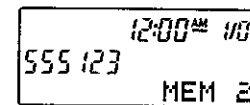
3. Enter the telephone number you wish to store, using the handset keypad.



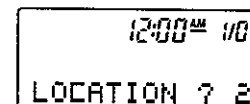
Note : If you accidentally press a 17th digit, an error tone will sound, and you must reprogram the number.

- Press the "REDIAL" button to enter a 4-second pause into the dialing sequence. A "P" will appear in the number sequence to show where the pause has been inserted.

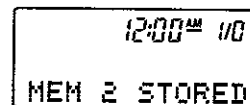
4. To delete a particular digit that has already been entered, press the "DEL" button. The last entered digit will be deleted. To delete all of the digits, press the "FLASH" button.



5. Press the "MEM" button to confirm the entered telephone number. The display will show "LOCATION ? x", with "x" representing the current memory location.



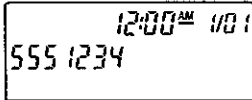
6. Press the "MEM" button again to confirm that you want to save the telephone number to that particular memory location number. If you want to choose another memory location number, press "*▲" or "#▼", or enter in the desired memory location, using the handset keypad. The display will show "MEM x STORED", with x representing the memory location number.



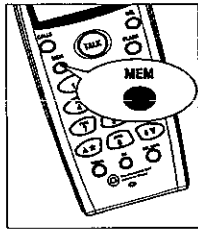
Telephone Operation (Cont.)

Scratchpad Memory

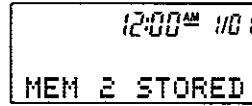
The FF2150 also functions as a scratchpad. If you want to save a displayed telephone number (up to 16 digits) into speed dial memory:



1. Press the "MEM" button on the handset. The display will show "LOCATION ? x", with "x" representing the first empty memory location.



2. Press the "MEM" button again to confirm that you want to save the telephone number to that particular memory location number. If you want to choose another memory location number, press "*▲", "#▼" or enter in the desired memory location, using the handset keypad. The display will show "MEM x STORED", with "x" representing the memory location number.

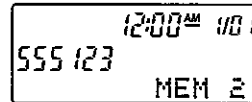


To Delete a Memory Location

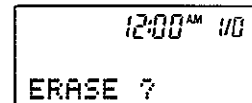
1. Press the "MEM" button on the handset, and the display will show "MEM x" with "x" representing the memory location that is currently displayed.



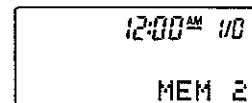
2. Press the "▲*" or "#▼" button to select the memory location where the telephone number is to be deleted.



3. Press the "DEL" button to delete that memory location. The display will show "ERASE ?".



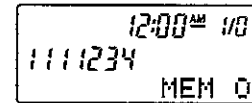
4. Press the "DEL" button again to confirm that you want to delete this memory location, and the memory location will be erased. If you do not want to delete that memory location, press any other key to cancel this procedure.



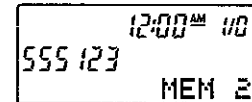
Telephone Operation (Cont.)

To Dial a Number Stored in Memory WHEN THE TALK BUTTON IS OFF:

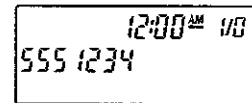
1. Press the "MEM" button and the location number on the handset, and the display will show "MEM x" with "x" representing the memory location that is currently displayed.



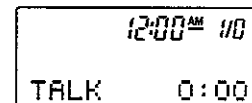
2. Press the "▲*" or "#▼" button to select the memory location where the telephone number is to be redialed. You can choose from MEM 0 -MEM 9.



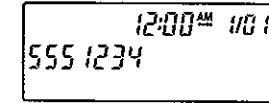
3. Press the "CALLS" button. The number will scroll across the screen from left to right as it is dialed.



WHEN THE TALK BUTTON IS ON:



1. Press the "MEM" button on the handset.
2. Press the desired memory location (0 through 9).
3. The number you programmed will be automatically dialed.

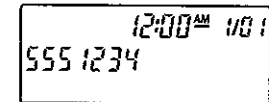


Redial

Your FF2150 remembers the last number (up to 32 digits) dialed. This is a convenient feature when trying to place a call through to a phone number that is not being answered or is continuously busy.

DO NOT PRESS THE TALK BUTTON.

1. Press the "REDIAL" button, and the display will show the last telephone number which you had previously dialed.

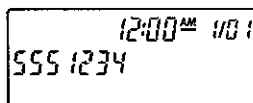
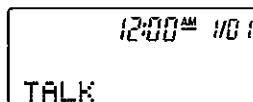


2. If you want to edit this displayed telephone number, you can choose the following options:

- a. To delete a particular digit that has already been entered, press the "DEL" button. The last entered digit will be deleted.
- b. To insert a digit at the end of the telephone number, enter the desired digit using the keypad.
- c. To delete all of the digits, press the "FLASH" button.

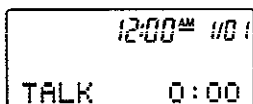
Telephone Operation (Cont.)

3. Press the "CALLS" button. The number will scroll across the screen from left to right as it is dialed.



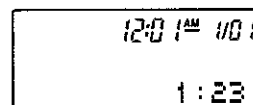
Call Timer

1. The LCD will display the call duration timer 10 seconds after a call is begun.



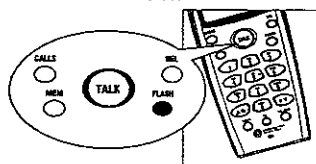
2. During the call, the base message counter will show "In". For example, if the call is made through the handset, the handset display will show the call timer, and the base message counter will show "In".

3. After the call is ended, the call timer will remain on the display for 5 seconds.



Flash

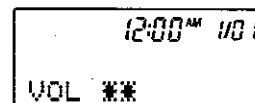
You can use your cordless telephone with special services such as Call Waiting or Three Way Calling (Special subscription from your local telephone company is required). During a telephone conversation, you may hear a tone or click, which indicates that you are receiving another call. To speak to the second caller and put the first call on Hold, press the "FLASH" button. Press "FLASH" again to return to the original call. You may also press the "FLASH" key to obtain a new dial tone.



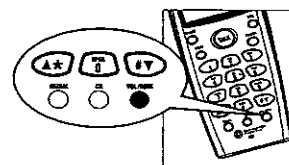
Telephone Operation (Cont.)

Receiver Volume Control

Your FF2150 allows you to adjust the handset volume to a more comfortable listening level. Press "VOL/RING" button to increase or decrease volume, while handset in the Talk On mode. The default volume is set to level 1. The volume status will show on the LCD.



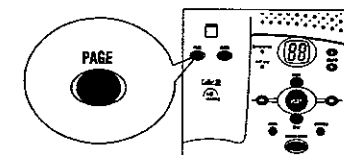
By pressing "VOL/RING" button the receiver volume will increase to maximum (level 3) and then back down and decrease to minimum (level 1) in a repeated cycle. Handset will beep 3 times when either the minimum or maximum volume is reached.



	-RINGER BUTTON-		-RING SOUND-	
	HANDSET		BASE	HANDSET
HANDSET OFF CRADLE	OFF	ON	OFF	OFF
HANDSET ON CRADLE	OFF	ON	OFF	OFF

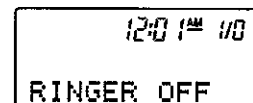
Page/Handset Locator

You can send a page signal from the base to the handset. Press the "PAGE" button on the base once, and the handset will beep 3 times. Press and hold the "PAGE" button for 3 seconds, and the handset will beep for about 60 seconds. Press the any button on the handset to stop the handset from beeping.



Ringer Control

If you do not want the handset to ring, press the "VOL/RING" button on handset for 2 seconds to toggle the ringer to off. The LCD will show.



The handset will no longer ring when a call comes in.

Telephone Operation (Cont.)

LCD/LED INDICATIONS

BASE

LED	STATUS	INDICATIONS
IN USE/ CHARGE	OFF	-Not in use -Handset off cradle
	ON	-In TALK mode -Battery being charged -PAGE key pressed
MESSAGE COUNTER	ON	-Unit in Answer Ready Mode -AC power connected
	OFF	-Unit in Answer Off mode -AC power disconnected
BATT LOW	A	-Unit in Announce Only Mode
	ON	-Low 9 volt battery
	OFF	-9 volt battery installed while AC power connected

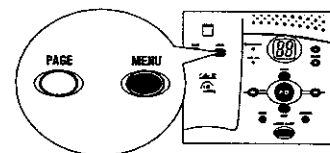
HANDSET

LED	STATUS	INDICATIONS
NEW CALL LED	FLASHING	-New Caller ID information is in memory.
	OFF	-All new Caller ID information has already been reviewed.

LCD DISPLAY	INDICATIONS
BATTERY LOW	Handset battery power is low, and the handset battery should be charged.
PAGING	Base unit is paging handset.
TALK	Handset is connected to line.
LINE IN USE	Speakerphone active.

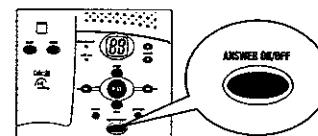
Answering System Operation

Voice Menu



While this owner's manual explains how to operate the FF2150 answering functions, the voice menu will also walk you through the message playback and greeting recording operation, step by step. Press the "MENU" button and the "PLAY" or "GREETING" button on the base to hear the message playback or greeting recording operating instructions.

To Turn System ON



Press the ANSWER ON/OFF button on the base to turn on the answering system. The message counter will turn on and the unit will say "Answer On". The message counter will display the current message number to indicate the system is in Answer ready mode. If the clock is set, the unit will announce "ANSWER ON" and the current time. If the clock is not set, the unit will say "Answer on".

To Turn System to Announce Only Mode

In the Announce Only mode, the unit will play your outgoing greeting, NOT RECORD AN INCOMING MESSAGE, and disconnect the line. This feature is useful if you want to provide information to the caller but DO NOT WANT TO RECEIVE ANY MESSAGES. Press the ANSWER ON/OFF button until you hear "Announce Only". The unit will enter the Announce Only mode, and the message counter will display "A".

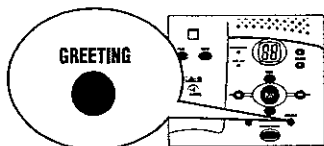
To Turn System OFF

Press the "ANSWER ON/OFF" button on the base to turn off the answering system. You will hear "Answer Off", and the message counter will turn off.

Answering System Operation (Cont.)

Recording Outgoing Greeting

Your system comes with a prerecorded outgoing greeting; "Hello. We are not available now, please leave your name and number after the beep". The prerecorded announce only greeting is "Hello. Our machine cannot accept messages. Please call again". You can record both a personalized Answer On (Answer Ready) and an Announce Only greeting. To record an Answer On greeting, make sure you are in the Answer On mode (the message counter will be lit). To record an Announce Only greeting, make sure you are in the Announce Only mode (the message counter will display "A").



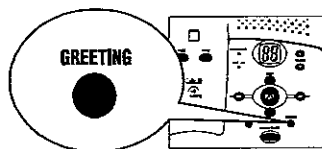
1. Press and hold down the "GREETING" button.
2. After you hear one beep, speak clearly towards the built in microphone (in the front of the base). You have a maximum of 30 seconds to record your greeting. Your recording time should not be less than 2 seconds. The message counter will not light when the unit is recording your greeting.

Sample Answer On Message:

"Hello, this is _____.
I can't come to the phone right now. Please leave your name and phone number after you hear the beep. You have 60 seconds to leave your message. Thank you for calling."

Sample Announce Only Message:

"Hello, this is _____. I can't come to the phone right now.
Please call back later."

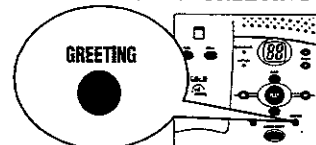


3. When finished, release "GREETING" button.
Note: If the unit beeps while you are recording your greeting, you have exceeded the 30 seconds time limit. Record a shorter greeting.
4. Unit will beep once, play back your recorded outgoing greeting, and then reset to answer incoming calls.

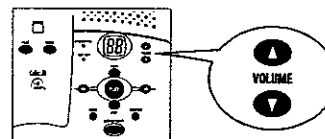
Answering System Operation (Cont.)

Checking Your Outgoing Greeting Ring Select

1. Press and release the "GREETING" button.

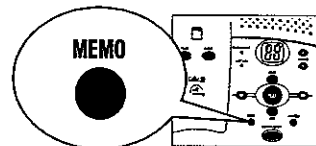


2. Your outgoing greeting will be played back to you, then reset to answer incoming calls.
3. Press and release the volume up "▲" or down "▼" button on the base to set the speaker to the desired sound level.



To Record a Memo

1. Press and hold the "MEMO" button.

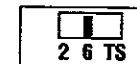


2. After the beep, record your message (up to 60 seconds) through the microphone in the front of the base.
3. When your message is completed, release the "MEMO" button. The Base display message counter will indicate a revised message count. When a MEMO is recorded, your unit considers it as a standard message and will include it in the Base message count.

Note:

When Memory is full during recording, the unit will announce: "Memory is full. Erase all messages".

You can select the number of rings in which a call will be answered. Set the Ring Select switch (on the back of the base) to 2 or 6 rings, or Toll Saver (TS).



Toll Saver

Your unit has a built-in automatic toll saving feature. This feature lets you know if you have received any new messages before it answers, thus saving you on long distance costs.

How Toll Saver Works

IF YOU HAVE SET THE RING SELECT SWITCH TO TOLL SAVER (TS), when calling your unit from a remote location to check for your messages, listen to the number of rings:

1. No New Message Received

If your phone rings more than two times, you have no new messages. You can hang up on the third ring before your unit answers, and save the cost of the call.

Note:

If no new messages are received, your unit will answer the call after the fifth ring.

2. NEW Messages Received

If your unit answers after only 2 rings, you have received new messages. Refer to page 27 for message retrieval instructions.

Voice Activated Recording (VOX)

Your FF2150 records messages for up to 60 seconds as long as the caller speaks. To avoid unnecessary pauses due to hangups and to save message capacity, your unit will automatically stop recording after 7 seconds of silence.

Message Playback

Incoming Messages

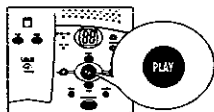
When the answering system is on and is ready to answer calls, the base display will show the number of new messages and the total number of messages in memory (up to 99).

Note:

The machine hangs up and resets to answer the next call in the following cases: the caller hangs up, the message length exceeds 60 seconds, there are more than 7 seconds of silence or there is a steady tone (dial tone) for 7 seconds.

The FF2150 can record up to 15 minutes of incoming messages. The maximum recording time for each incoming message is 60 seconds.

To Hear Your Messages



1. Press and release the "PLAY" button. The unit will playback the incoming or MEMO messages in the order they were received.

2. The set day and time will be heard before each message.

Note: The day and time are automatically set once your unit receives its first Caller ID call.

3. After the last incoming or MEMO message has been played back, the unit will say "No more new messages." Press and hold the "ERASE" button to erase all messages.

Note:

If there are new messages, only the new messages will be played. Otherwise, all the messages will be played.

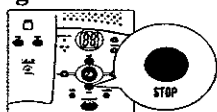
4. Unit will reset to answer incoming calls.

To Pause Playback of Incoming Messages

During playback, pressing the "PLAY" button will pause message playback, the IN USE/CHARGE LED on the base will be flashing. Press the "PLAY" button again to resume playback.

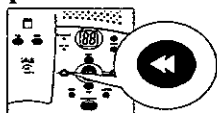
Note: If you do not resume playback after one minute the unit will reset to answer incoming calls.

To Stop Playback of Incoming Messages



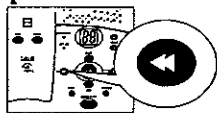
Press and release the "STOP" button. Your unit will reset to answer incoming calls and will save all messages, except those marked for erase.

To Repeat the Current Message



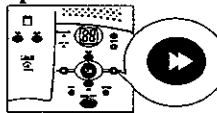
During playback, press and quickly release the (<<) REPEAT button ONCE.

To Repeat the Previous Messages



During playback, press and release the (<<) REPEAT button TWICE.

To Skip to the Next Message



During playback, press the SKIP button (>>) to skip to the next message.

Message Playback (Cont.)

To Erase Your Messages

MESSAGES WILL BE SAVED UNLESS YOU ERASE THEM.

While playing messages, press and release the "ERASE" button. It will announce "Press ERASE button again to erase message" press ERASE button to erase that particular message. At the end of the last message, press and hold the ERASE button and then press the ERASE button, ALL MESSAGES WILL BE ERASED.

Message Capacity Full Detection

When the message capacity is full, the unit will answer the phone and say "Hello, our machine can't accept messages, please call again," pause 20 seconds, and then automatically disconnect the telephone line. The message counter will flash and display "FF". You should erase some messages to make room in memory.

Call Interrupt

If the unit answers before you do, you can turn it off by picking up any extension phone or by pressing "TALK" button on your handset or pressing "SPEAKER" button on the base. If the unit does not stop answering, press the "FLASH" button for about one second and release. You may also press the "STOP" button on the base.

Call Screening

To listen to an incoming call without picking up the phone, let your unit answer the phone when it rings. If you don't want to talk to the caller, let your unit take a message, and adjust the volume control on the base to listen. If you don't want to listen to the caller's message, lower the volume.

Note:

Callers will be unaware that you are screening their calls. If you want to talk to the caller, pick up an extension phone or press the "TALK" button on your handset, or press the SPEAKER button on the Base.

Power Failure Protection/Battery Backup

If an AC power failure occurs, or the power plug comes out of the wall, your unit will shut down until the power is restored.

When the power is restored, any messages recorded before the power failure will be saved IF YOU HAVE INSTALLED A 9 VOLT BATTERY. The base display will indicate the number of messages received.

If your unit is not operating properly when the power is restored, proceed with a unit reset.

To Reset Unit

1. Unplug the AC adaptor from the power outlet.
2. Remove the 9 volt battery. Replace with a fresh 9 volt battery (see page 9).
3. Plug AC adaptor back into power outlet.
4. Record a new personalized outgoing greeting. (see page 23).
5. Remove the handset battery, wait 5 seconds, and then reinstall the handset battery. You need to follow the Caller ID setup procedure.

IMPORTANT

During a power outage, your unit will NOT work even if a 9 volt battery is installed. The battery will save your outgoing greeting, and any incoming messages you have already received.

Tone Remote Operation

To access answering functions from an outside line, you will need to enter the two-digit remote access security/pin code (see page 12).

To set a new or to check the security code:

1. When the current time/day is displayed on the handset, press the "CH" button for a second.
2. The current set language will display on the handset. Press the "MEM" key to confirm.
3. The current set area code will display on the handset. Press the "MEM" key to confirm the area code.
- 4.



- Enter your 2-digit pin code, using the handset keypad. The entered digits will display on the handset and will shift to the left, one by one, after you enter the first digit. Press the "MEM" key to confirm the display code. A confirmation beep will be heard.
5. Press the "MEM" key to confirm the displayed code.
 6. Press the "CH" key to return to the standby mode.

Write this number on the REMOTE ACCESS CARD, which you can keep in your wallet. If you do not set a security code, the default security code is "88".

To turn on answering machine remotely:

If you forget to turn on your unit, call your phone number from an outside touch tone telephone. Wait 10 rings until the machine answers, hang up the telephone, and subsequent calls will be answered.

To access answering machine remotely:

1. Call your phone number from a touch tone telephone.

2. After the unit answers, enter your two digit security code during playback of the outgoing greeting.

3. If the code was entered correctly, the unit will stop playing back the outgoing greeting and will sound one beep.

4. The voice menu will direct you to press the following buttons on your keypad:

Option	Press
Playback new messages	(1)
Playback all messages	(2)
Erase all messages	(3)
To choose other functions	(4)

If You Press 4 (To Choose Other Functions)

Record new outgoing greeting	(8)
Turn off answer mode	(9)
To return to main menu	(4)

Note: If you choose option "9" (to turn off the answer mode), the call will be automatically ended after this operation is completed.

If You Press 1 or 2 (To Playback Messages)

Erase current message	(3)
Repeat current message	(4)
Stop message playback	(5)
Skip to next message	(6)

To SAVE messages, hang up the telephone.

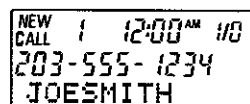
If You Press 4 and 8 (To Record New Outgoing Greeting)

1. The unit will say "Record greeting after the beep. Press 5 to end recording."
2. Record your new outgoing greeting (up to 30 seconds).
3. When you have finished recording your outgoing greeting, press 5. The new outgoing greeting will play back to you.

Caller ID Operation

Receiving a Call

1. After the first ring, the caller's name and telephone number will display on the handset screen.



The Caller ID information (of up to 64 callers) will be stored in the handset display in the order received. If the received call information is the same as any of the new calls, the unit will display the "RPT" icon to indicate a repeat call. If the unit receives more than 64 calls, the oldest Caller ID information will be erased. The New Call LED will flash until you review all your new calls.

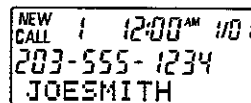
Note:

- If you answer your incoming call before the second ring, the unit will not display the call information.

Receiving Call Waiting Caller ID

When you are on an existing phone call, your FF2150 will display incoming call waiting Caller ID information.

1. You will hear a beep and the telephone will be muted momentarily while the displays show the Caller ID information of the second caller.



2. When you access the call waiting call, the Caller ID information will disappear and the Time/Day screen will be displayed.

Note:

- You can only access the call waiting call from the handset, not from the base.

IMPORTANT:

You must subscribe to Call Waiting and Call Waiting Caller ID service from your local telephone company in order to receive Call Waiting Caller ID information.

Reviewing Calls

Reviewing New Call Records

1. When the display shows the current date/time, press the "▲*" or "#▼" button on the handset to display the information for the last new call received.

Note :

- You can review up to 64 new Caller ID calls from the handset.

2. Continue pressing "▲*" or "#▼" button to review all new call records in the order the calls were received.

When a name received exceeds 12 characters, the first 12 characters will be shown with "▼" showing on the right hand side. Press the "#▼" button to view the remaining characters.

3. After the final call has been displayed, press the "▲*" or "#▼" button again. The New Call LED will stop blinking and the LCD will show "END NEW CALL"

Note:

-If you do not review all new calls, the Time/Date screen will display after 20 seconds and the new call counter will show the total number of new calls received (including those you just reviewed).

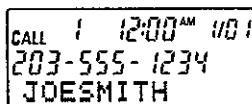
Caller ID Operation (Cont.)

To Store a Caller ID Record to Speed Dial Memory

Note:

- You can store a Caller ID record from the handset to speed dial memory.

1. When the handset display shows the current time/day, press the "▲*" or "#▼" button to select the Caller ID record you want to store to speed dial memory.

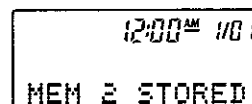


2. Press the "MEM" button on the handset.

3. The display will show "LOCATION ? x", with "x" representing the first empty memory location.



4. Press the "MEM" button again to confirm that you want to save the telephone number to that particular memory location number. If you want to choose another memory location number press "▲*" or "#▼" or, enter in the desired memory location, using the handset keypad. The display will show "MEM x STORED".



Reviewing All Call Records

1. After you have reviewed all of the new calls (see page 28), press the "▲*" or "#▼" button on the handset. The displays will show the calls stored in memory.

- You can review up to 64 caller ID call from the handset.

2. Once in the Caller ID review mode, press the "▲*" or "#▼" button. The LCD display will show the calls stored in memory.

3. Continue to press "▲*" button to display all records in the order they were received from the oldest to the newest, or "#▼" button from the newest to the oldest.

4. After the last call record is reviewed, the LCD will show "--END--".

Caller ID Redial

THE LOCAL AREA CODE MUST BE PROGRAMMED IN ORDER TO FULLY UTILIZE THE REDIAL FEATURE (SEE PAGE 12). The FF2150 allows you to redial a phone number stored in the Caller ID memory.

1. When the display shows the current time/day, press the "▲*" or "#▼" button on the handset to select the Caller ID record that you want to dial.

Note:

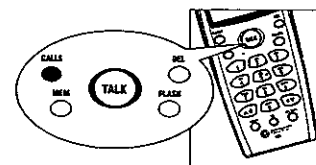
- You can review and redial up to 64 Caller ID calls from the handset.

Caller ID Operation (Cont.)

2. Press and release the "CALLS" button on the handset. The number will scroll across the screen from left to right as it is dialed.

Note:

- If you review the Caller ID call from the handset, then you will need to redial the call from the handset (by pressing the "CALLS" button).



With current Telecom redialing situations, there are 4 redial options: (1) 7 digits without a 1 prefix; (2) 7 digits with a 1 prefix; (3) 10 digits without a 1 prefix; and (4) 10 digits with a 1 prefix.

1. **7 digits without a 1** : Assuming that you have programmed your correct area code, redial your local call by pressing the handset "CALLS" button ONCE.

2. **7 digits with a 1** : If it is necessary to insert a 1 prefix to your local call, assuming that you have programmed your correct area code, simply press the handset "CALLS" button TWICE WITHIN 2 SECONDS.

3. **10 digits without a 1**: In some areas of the country, the area code must be included, even when dialing a local call. In this situation, set your FF2150 area code to another 3 digit "fictitious" area code. (We recommend using an area code not currently being used in the U.S., i.e. 100, etc.). Once your area code is programmed as above, your FF2150 will show all "10 digits" for every incoming call. To redial a local 10 digit call, press the handset "CALLS" button TWICE WITHIN 2 SECONDS in succession. The "1" prefix is then omitted and the local 10 digit call is redialed out.

4. **10 digits with a 1**: Since the 1 prefix will be added automatically when dialing a 10 digit number, simply press the handset "CALLS" button ONCE to make your call. If your area code requires that you add 1 and your area code, even if the call is within the same area code, then you must reprogram your FF2150 to another 3-digit "fictitious" area code. The "1" prefix will be added before the 10 digit number and your long distance call will be dialed out.

Note:

Use caution when pressing the handset "CALLS" button.

Press and release rapidly; if the handset "CALLS" button is held down too long, the "VIP CALL" feature will be activated.

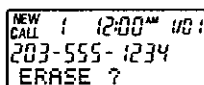
Caller ID Operation (Cont.)

Caller ID Erase

To Erase a Single Call

1. When the handset display shows the current time/day, press the "▲*" or "#▼" button to select the Caller ID record you want to erase.

2. Press "DEL" button to erase the call displayed; the display will show "ERASE?" on the bottom line.



NEW
CALL 1 12:00 AM 10:1
203-555-1234
ERASE ?

4. Press "DEL" button again; the Caller ID record will be erased and the display will show the next call message.

Note: If the current displayed message is the last message to come in, then the display will show "--END--".

To Erase All Calls

1. You must press the "▲*" or "#▼" button to review all of the new Caller ID records received before you can erase all calls.

2. While the display is in standby mode, press and hold the "DEL" button for 2 seconds. The display will show "ERASE ALL?" on the bottom line.



ERASE ALL ?

3. Press the "ERASE" button again; all VIEWED messages will be erased.

Note: 1. In this condition, all the Caller ID records are erased. If there are records that have not been reviewed, the "Erase All Calls" function cannot be performed.

2. VIP calls will not be erased when you erase all calls.

VIP Calls

The FF2150 allows you to create VIP call records. When a VIP call is received, 4 beeps will be heard (after the first ring), to alert you this is a VIP call.

To Create a VIP Call:

1. Press the handset "▲*" or "#▼" button to select the caller ID which you want to assign a VIP indication.

2. Press and hold the "CALLS" button for 2 seconds until the "VIP" icon is displayed.

Note: Four beeps will also be heard when the incoming VIP call is a call waiting Caller ID call.

To Remove a VIP Call:

1. Press the handset "▲*" or "#▼" button to display the call you have marked "VIP".

2. Press and hold "CALLS" button for 2 seconds until the "VIP" icon has disappeared.

FCC Wants You To Know

a) This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAEQ##TXXXX. If requested, this number must be provided to the telephone company.

b) An applicable certification jacks Universal Service Order Code (USOC) for the equipment is provided (i.e., RJ11C) in the packaging with each piece of approved terminal equipment.

c) A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

d) The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. [For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.]

e) If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

f) The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

g) Should you experience trouble with this equipment, please contact (company name, repair centre address and phone number) for repair or warranty information. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

h) Please follow instructions for repairing if any (e.g. battery replacement section); otherwise do not alternate or repair any parts of device except specified.

i) Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

j) NOTICE: If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this [equipment ID] does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

k) This equipment is hearing aid compatible.

NOTICE: According to telephone company reports, AC electrical surges, typically resulting from lightning strikes, are very destructive to telephone equipment connected to AC power sources. To minimize damage from these types of surges, a surge arrestor is recommended.

Answers to Commonly Asked Questions

Q. I can't get a dial tone. What do I do?

A. Your phone may have lost its digital security code and needs to be reset. Refer to the "To Reset" procedure on page 26.

Q. My answering system won't work. What do I do?

A. You may have had a power failure and need to reset your machine. Refer to the "To Reset Unit" procedure on page 26 or "To Turn System On" on page 22.

Q. How do I erase the incoming messages to make room for more?

A. Your unit automatically saves messages unless you erase them. Refer to page 26 "To Erase Your Messages."

Q. How often do I need to replace the 9 volt battery?

A. You should replace the 9 volt battery once a year or after a power outage.

Q. Can my unit be left on for a long period of time?

A. Yes. Your unit is designed to be on 24 hours a day.

Q. My AC Adaptor feels warm to the touch. Is this normal?

A. Yes. It is characteristic of your AC Adaptor to feel slightly warm. There is no need to be alarmed.

Q. Will my unit operate in a very cold or hot environment?

A. Your unit is designed to perform most efficiently at room temperature. However, it can be used in environments ranging from 50° F to 120° F.

Q. How do I know my system is set to answer calls?

A. When the message display indicator shows a number that is lit solid or flashing, your unit is ready to answer calls. After most modes of operation (such as after recording your outgoing message), the unit will automatically switch to the answer mode.

If the base display shows "A", the unit is in the announce only mode and will NOT record messages.

Q. How do I know that messages are saved?

A. The unit automatically saves message unless you press the "ERASE" button.

Q. When I try to record a new outgoing greeting, the old greeting plays back. Why?

A. Pressing and RELEASING the "GREETING" button will play back the current outgoing greeting.

To record a new outgoing greeting, you must press and HOLD the "GREETING" button while you record your greeting.

Q. What is the maximum length of the outgoing greeting I can record on my unit?

A. Your outgoing greeting recording time is up to 30 seconds.

Answers to Commonly Asked Questions (Cont.)

Q. I am checking my messages remotely from a touch tone telephone, but my unit will not playback my messages. Why?

A. Although the telephone you are using is a push button telephone, the telephone line over which you are calling may not be a standard touch tone line. Try calling your unit from a different location (e.g., a pay telephone).

Q. Does my unit have to be set on tone (T) to access my unit remotely?

A. No, but you must call from a touch tone telephone system to retrieve your messages.

Q. I am calling from a remote phone to check my messages. What will happen if I hang up before all my messages are played back?

A. Your unit will save your messages and reset to answer incoming calls.

Q. What is the range of my remote feature?

A. Your remote will work from any touch tone telephone in the world that is compatible to the U.S.A. specifications, does not have any unusual or loud background noise, and is able to produce a tone of at least 2 seconds when you enter your security code.

Q. Why are some of the digits on the display missing?

A. Information in the Transmission is unable to be decoded by your unit and could not be displayed. If the error affects only a single digit, the display will sometimes show a "_" in the area of the digit effected. Your telephone is able to recover all available information, making it possible for you to determine who the call is from.

Q. How many calls can be stored in Caller ID memory?

A. The telephone number, name (if available), and time/day of up to 64 calls will be stored in memory on the handset display.

Troubleshooting Guide

If you have followed the instructions in this manual, and have difficulty operating your Southwestern Bell Freedom Phone® Cordless Telephone, locate the PROBLEM in the left column below. Check the corresponding POSSIBLE CAUSE and CORRECTIVE ACTION columns to locate and remedy the problem.

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
The unit will not operate.	Improper installation.	Recheck all plug connections. Also, check the AC adaptor for proper connection to wall outlet and phone base.
	The digital security code has been lost due to a power loss while the handset was away from the base.	Reset the digital security code by returning the handset to the base. A new code is set.
	The battery is not charged.	Charge the battery for about 10-14 hours before initial use or when the battery low beep sounds every 10 seconds from the handset.
No dial tone.	See the above mentioned possible causes.	See the above mentioned corrective actions.
	The handset is being used too far away from base.	Move the handset closer to the base.
Difficulty placing or receiving calls.	You may have lost the security code. The handset can no longer communicate with its base. The loss of the code can occur if the battery is drained and needs recharging, the AC adaptor is disconnected, a power loss occurred, or there is electrical interference from other cordless phones, baby monitors, microwaves, etc. Even a momentary power interruption could erase your cordless phone's security code.	<ol style="list-style-type: none"> 1. Return the handset to the base unit for 5-10 seconds to reset code. If that doesn't work: 2. Check to make sure the AC adaptor is connected. 3. Unplug AC adaptor from power source, disconnect handset battery for 5 seconds, then reconnect. Place handset back on base, then replug the AC adaptor

Troubleshooting Guide (Cont.)

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Can't make outgoing calls.	The digital security code has been lost.	Reset the security code by returning the handset to the base.
Battery pack is not recharging.	The base and handset battery contacts are not in contact with each other.	Make certain the battery contacts in the handset and base make contact when handset rests in the base. The base IN USE/CHARGE LED should be lit.
	Battery pack needs to be replaced.	Replace the battery pack at least every one year.
Noise or interference is being heard during your conversation.	Current channel is not the clearest choice.	Press the channel button to switch from one channel to another. This will allow you to choose the clearest of 40 channels.
During a conversation a loud static noise is heard.	The handset is being used too far away from the base.	Move the handset closer to the base station.
The handset only works close to the base.	The base antenna is not fully upright.	Make sure the base antenna is fully upright for the best result.
The incoming call's signal is intermittent or fades.	The battery is not charged.	Recharge the battery.
	The handset is being used too far away from the base.	Move the handset closer to the base.

Troubleshooting Guide (Cont.)

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Answering system will not operate.	You may have had a power failure.	Proceed with a unit reset (page 26).
BATT LOW LED ON	Battery needs to be installed or replaced.	Install a fresh 9 volt battery.
No answer	Unit is in the "ANSWER OFF" mode.	Check to verify the base display shows "A" or the message count. If not, press the ANSWER ON/OFF button to turn the unit on, until you hear "Answer On".
	AC adaptor is disconnected from wall outlet or back of unit.	Reconnect AC adaptor into wall outlet and back of unit.
	Power to electrical outlet may be off.	Check to see if electrical outlet is controlled by a light switch and power is on. Wall outlet may not be functioning; try connecting to a different wall outlet.
	Telephone line is not connected to wall jack.	Connect telephone line into wall jack. Telephone wall jack may not be functioning; try connecting unit into a different telephone wall jack.
After a power outage, outgoing greeting and incoming messages are lost	A 9 volt battery has not been installed or needs to be replaced.	Install a fresh, alkaline 9 volt battery to maintain your personalized outgoing greeting and incoming messages in the event of another power outage.
No incoming messages recorded	Unit is in the "ANSWER OFF" mode.	Check to verify the base display shows the message count. If not, press the ANSWER ON/OFF button to turn the unit on, until you hear "Answer On".
	Unit is in the "ANNOUNCE ONLY" mode	If the message counter displays "A", press the "ANSWER ON/OFF" button to turn the unit on, until you hear "ANSWER ON".
	AC adaptor is disconnected from wall outlet or back of unit.	Reconnect unit into wall outlet or back of unit. Try connecting to a different wall outlet.
	Power to electrical outlet may be off.	Check to see if electrical outlet is controlled by a light switch and power is on.
	Telephone line is not connected to wall jack	Connect telephone line into wall jack. Try connecting unit into a different telephone wall jack.

Troubleshooting Guide (Cont.)

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
No remote operation	AC adaptor is disconnected from wall outlet or back of unit.	Reconnect unit into wall outlet or back of unit. Try connecting to a different wall outlet.
	Power to electrical outlet may be off.	Check to see if electrical outlet is controlled by a light switch and power is on.
	The telephone you are calling from is not a standard touch-tone.	Try calling from a different location (e.g. pay phone.)
	Telephone line is not connected to wall jack.	Connect telephone line into wall jack. Try connecting into a different telephone wall jack.
	Security code not entered correctly.	2 digit remote security code must be entered within ten seconds of the beep at the end of your outgoing greeting. Press and hold each digit for 2 seconds, allowing a minimum of 2 seconds between digits.
	Remote security code being used differs from the code you have set.	Press the "CH" buttons on the FF2150 handset to check the current set security code. (see page 27)
The machine beeps during the recording of my outgoing greeting	The outgoing greeting you are recording is too long.	Record a shorter outgoing greeting (between 2 and 30 seconds).
The machine is cutting off incoming messages	Incoming messages are too long.	Maximum recording time for incoming messages is 60 seconds.
	Caller may be pausing for more than 7 seconds.	Caller must speak continuously without any long pauses.

Troubleshooting Guide (Cont.)

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Your telephone rings but the FF2150 doesn't show any Caller ID records.	The telephone line is not connected properly to the unit.	Connect the telephone line into the back of the unit. Check with your local telephone company to be sure Caller ID service is being provided on your telephone line. Also, if you pick up the phone before the first complete ring, the caller information will not be completely received.
You cannot redial a call record.	Your local area code is not programmed.	If the display does not indicate 7 digits for local incoming calls, reprogram the local area code.
	The number displayed is incorrect.	Verify the number displayed during redial. Data received were possibly corrupted during the transmission through the telephone lines. Dial the telephone number manually on your telephone.
You can't receive call waiting messages.	This service is not available.	You must subscribe to Caller ID, Call Waiting, as well as Call Waiting Caller ID service from your local phone company. The phone must be off-hook to hear the call waiting Caller ID alert signal.
The display screen is dim or blank.	The display contrast is set to too low of a level.	Press the handset "FLASH" and then the "▲*" or "#▼" button to adjust the handset contrast level.

Product Care

A. Avoid putting cordless phones near heating appliances and devices that generate electrical noise (motors, fluorescent lamps, etc.).

B. Avoid rough treatment of the phone by placing the handset gently into the base when hanging up. Avoid dropping the handset.

C. Clean your cordless telephone only with a soft cloth slightly dampened with water or mild hand soap. Do not use any type of solvent or abrasive cleaner. Before cleaning, always unplug the phone from the wall outlet.

D. Your cordless phone is not designed to be water resistant. Do not use the handset in the rain, in the pool or in the shower. Do not install your base unit outdoors, near a sink, bath tub or shower. Do not expose to direct sunlight.

E. Retain the original packaging should you need to ship the phone at a later date.

Additional Information

A. Connecting this telephone to a coin operated telephone or party line is prohibited by law.

B. If it is determined that your telephone is malfunctioning, the FCC requires that it be disconnected from the modular outlet until the problem has been corrected.

For immediate answers to all your questions regarding the operation of your Southwestern Bell Freedom Phone®, call the Consumer Hotline, toll free at (800) 366-0937.

Speed Dialing Numbers Index

LOCATION	NUMBER	LOCATION	NUMBER
	0		5
	1		6
	2		7
	3		8
	4		9

Service

According to FCC regulations, this equipment, which has been certified and registered by the FCC, may only be repaired by authorized persons. If repairs or adjustments are made by an unauthorized person, the FCC certification may be voided. Should you encounter any problems, please call the Southwestern Bell Freedom Phone® toll-free Customer Help Line for assistance: 1-800-366-0937, Monday - Friday 8:30 am - 9:00 pm, and Saturday 8:30 am - 12:30 pm. You can also visit our website at <http://www.swbfreedomphone.com>.

FOR IN-WARRANTY SERVICE:

Package your complete unit (including all adaptors, line cords, and other accessories) and ship the unit postage prepaid* and insured (for your protection) to:

SOUTHWESTERN BELL FREEDOM PHONE®
DEPT.: Warranty Repair
7475 N. Glen Harbor Blvd., Glendale, AZ 85307

Be sure to include your return address, proof of purchase, a daytime phone number, \$9.50 for postage and handling*, and a brief explanation of your difficulties.

*NOTE: California residents need only provide proof of purchase and should call 1-800-366-0937 for shipping instructions.

FOR OUT-OF -WARRANTY SERVICE:

You may call our toll-free Help Line for the price of a replacement before returning your unit. Please follow all instructions for In-Warranty service (above) to return your unit, and mark the package: DEPT.: Out-of-Warranty.

If you have called and know the cost of your replacement, please include this information with your unit for prompt service.

QUESTIONS?

STOP...DON'T TAKE ME BACK TO THE STORE.
LOOK...FOR THE TOLL-FREE "HELP" TELEPHONE NUMBER.
LISTEN...AS THE EXPERTS TALK YOU THROUGH THE PROBLEM.

For immediate answers to your questions regarding operation, missing parts or installation, call the

SOUTHWESTERN BELL FREEDOM PHONE® HELP LINE AT:
1-800-366-0937
<http://www.swbfreedomphone.com>

Limited Warranty

This Southwestern Bell Freedom Phone® is warranted to the original purchaser to be free from defects in materials and workmanship under normal installation, use, and service for a period of one(1) year from the date of purchase as shown on the purchaser's receipt.

The obligation of Southwestern Bell Freedom Phone® Retail Sales under this warranty shall be limited to repair or replacement (at our option) during the warranty period of any part which proves defective in material or workmanship under normal installation, use, and service, provided the product is returned to Southwestern Bell Freedom Phone® Retail Sales (address below) TRANSPORTATION CHARGES PREPAID (California residents call 1-800-366-0937 for shipping instructions). Products returned to us or to an Authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture. To obtain service under this warranty, return the defective product to the service center nearest you together with your sales slip and \$9.50 for postage and handling (California residents need only provide proof of purchase). You may also have other warranty rights which vary from state to state.

This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction, or alteration of the serial number, improper electrical voltages or currents, repair alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This warranty is also rendered invalid if this product is removed from the country in which it was purchased, if it is used in a country in which it is not registered for use, and/or if it is used in a country for which it was not designed. Due to variations in telephone systems and communications laws, this product may be illegal for use in some countries. Southwestern Bell Freedom Phone® Retail Sales assumes no responsibility for damages or penalties incurred resulting from the use of this product in a manner or location other than that from which it is intended.

This one-year limited warranty is in lieu of all other expressed warranties, obligations, or liabilities. ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE-YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER.

Some states do not allow the exclusion or limitation of special, incidental, or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SOUTHWESTERN BELL FREEDOM PHONE®
7475 NORTH GLEN HARBOR BLVD., GLENDALE, AZ 85307

180mm

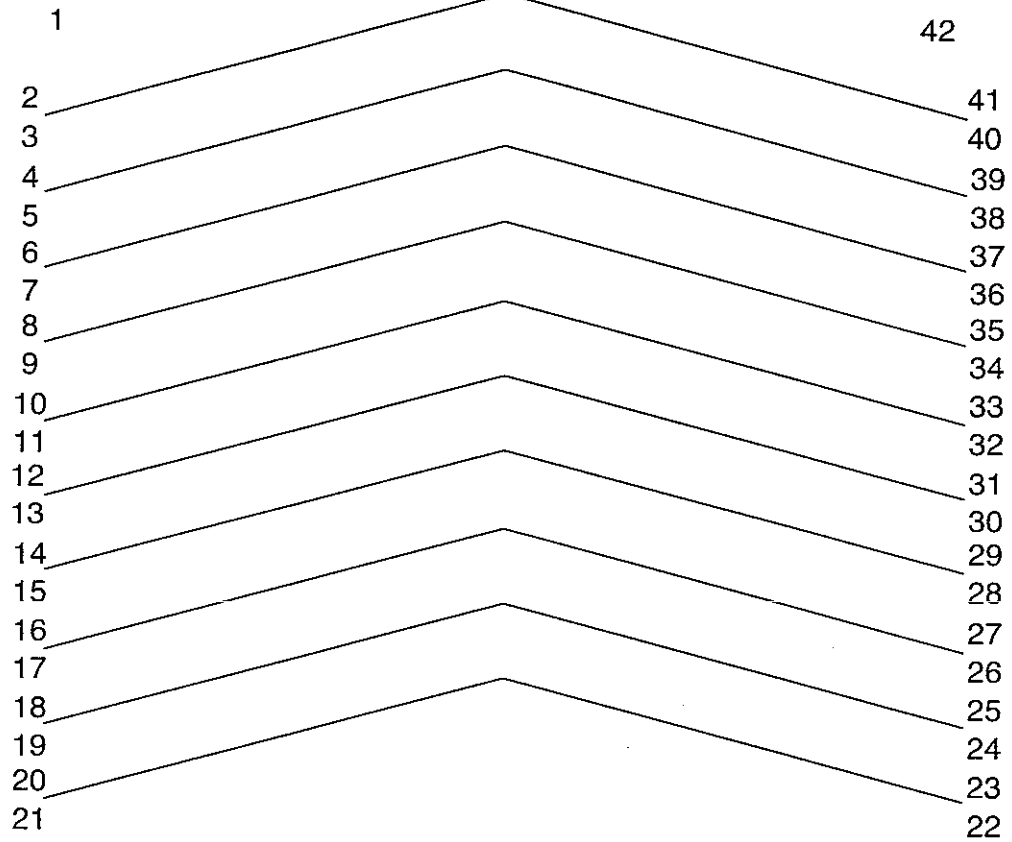
FRONT COVER

125mm

FRONT COVER

topview

BACKCOVER



TELEFIELD

PART NO.:	ZK-822-01AF-00	DESCRIPTION:	USER MANUAL, IB-3884F	MADE BY:	EDMOND	DATE:	NOV/25/2002
MODEL NO.:	FF2150	COLOR:	ALL TYPE PRINT BLACK	APPROVED BY:		DATE:	
SIZE:	180mm x125mm (+1,-0)	MAT'L:	Woodfree Paper	FILE NAME:			

PLAYBACK/OPERATION:

1. Press and release PLAY button. Unit will playback messages in the order they were received. The set, date/time will be played at the beginning of each message.
2. After last message is played, you will hear "No more messages. Press and hold the ERASE button to erase all messages".
3. Press ERASE button for 2 seconds. You will hear "Press ERASE button again to erase all messages." Press ERASE button again to erase all messages.
4. Press and release twice ERASE button continually during playback to erase current message.
5. Press STOP button to quit playback. Unit will stop, save messages and reset.
6. Press and release REPEAT button once to repeat current message.
7. Press and quickly release REPEAT button twice to repeat previous message.
8. Press SKIP button during playback to SKIP to next message.

STOP — don't take unit back to the store
LOOK — for the toll-free "help" telephone number
LISTEN — as our experts talk you through the problem

For immediate answers to your questions
regarding operation, missing parts or installation, call the

Southwestern Bell Freedom Phone®
Retail Sales Help Line.

1-800-366-0937

Monday-Friday 8:30am-9:00pm EST

Saturday 8:30am-12:30pm EST

<http://www.swbfreedomphone.com>

PRINTED IN CHINA

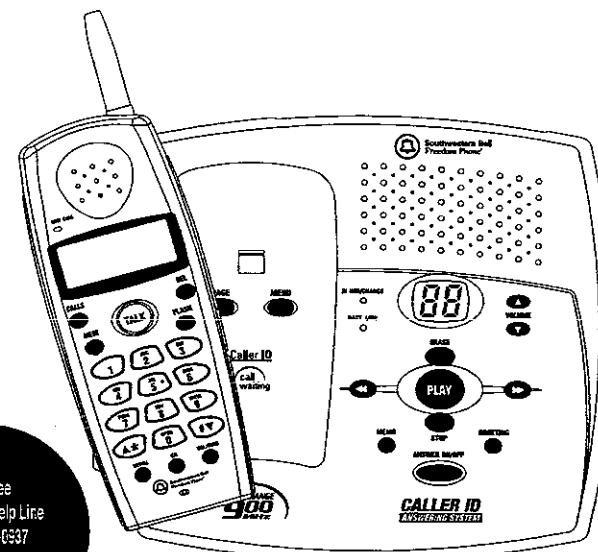
L-96D



Southwestern Bell Freedom Phone®

STOP! READ THIS FIRST!

Quick Installation Instructions For Your Cordless Telephone Answerer



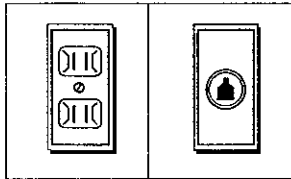
Toll Free
Consumer Help Line
1-800-366-0937
www.swbfreedomphone.com

Cordless Telephone Answerer/Caller ID Quick Installation Guide

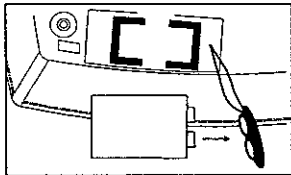
FF2150

Refer to Owner's Manual for Detailed Instructions

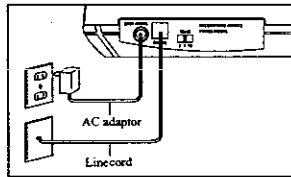
INSTALLATION



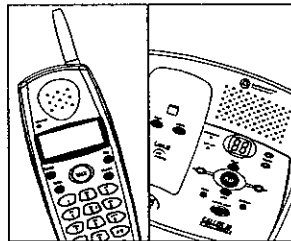
1. Locate the FF2150 near a standard A C power outlet and a modular telephone jack.



2. Lift the battery compartment door. Install one 9-volt battery (not included) into the compartment.



3. Insert one end of the TELEPHONE LINE CORD into a modular wall jack and the other end into the back of the base.



4. Insert the small plug on the end of the AC adaptor into the POWER connection jack at the back of the BASE. Plug the AC adaptor into a 110/120V wall outlet.



5. IMPORTANT. Raise the antenna on the BASE for the best reception.
6. Before initial use, keep the handset in the base and charge for 10-14 hours

RECORDING GREETING

Your FF2150 comes with a prerecorded greeting that is automatically activated when you plug in the machine. To record a personalized greeting:

1. Press and hold down the GREETING button.
2. After you hear one beep, speak clearly towards the built in microphone. You have a maximum of 30 seconds to record your greeting.
3. When finished, release GREETING button.
4. Unit will beep once and play back your recorded outgoing greeting and then reset to answer incoming calls.
5. To check message, press and release GREETING button.

SETTING RING SELECT

Set to 2 to answer all calls after 2 rings.

Set to 6 to answer all calls after 6 rings.

Set to Toll Saver (TS) to answer after 2 rings when there are new messages and after 5 rings when there are no new messages.

REVISE CALLER ID & REMOTE ACCESS CODE

To Set Language

1. To set up the Caller ID and Remote Access code, press the "CH" button for a second in the Date/Time screen. The display will light and will show "SET LANGUAGE".
2. You can choose to see your LCD indication in English, French or Spanish. Press the "▲*" or "#▼" button to choose the desired language.
3. Press the "MEM" button to confirm the display language.

To Set Area Code

1. Enter your 3-digit local area code, using the handset keypad.
2. After selecting the third digit, press the "MEM" button to confirm the displayed area code.

To Set Remote Access Code

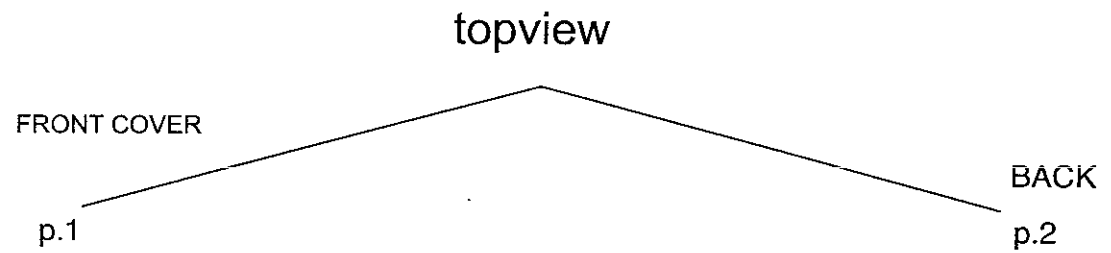
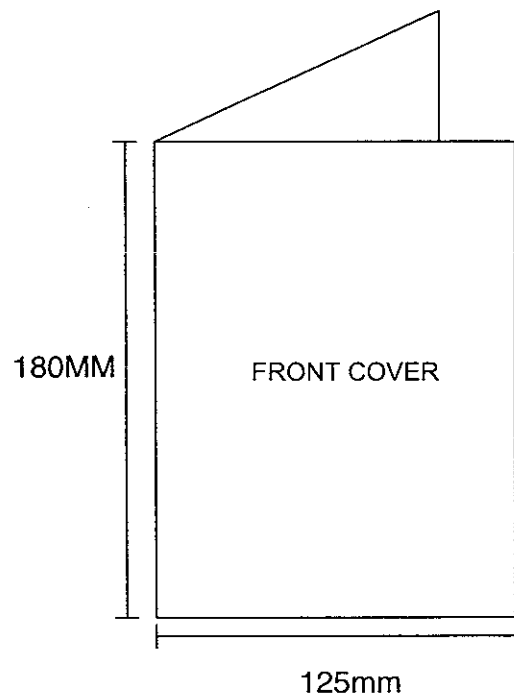
Note: In order to access your answering machine remotely (see owner's manual page 27), The default pin code is "88".

1. Enter your 2 digit pin code, using the handset keypad. The entered digits will display on the handset and will shift to the left, one by one, after you enter the first digit.
2. Press "MEM" key to confirm the displayed code. The unit will begin to set the handset display contrast level.

To Adjust The Handset Display Contrast

1. Press the "▲*" to make the contrast darker or "#▼" to make the contrast lighter.
2. Press the "MEM" button to confirm the displayed contrast level.

- Note :**
1. If you delay more than 20 seconds in between any of the above steps, the unit will revert to the Date/Time screen.
 2. To adjust the handset LCD display contrast while in the standby mode, press the "FLASH" button. Then press "▲*" or "#▼" button to set the desired contrast. Press "MEM" button to confirm the contrast level.
 3. Put the handset back to the charge cradle after setup is completed.



TELEFIELD

PART NO.:	ZK-822-52AE-00	DESCRIPTION:	QUICK INSTALLION GUIDE, ENGLISH, L-96D	MADE BY:	Edmond	DATE:	NOV/25/2002
MODEL NO.:	FF2150	COLOR:	ALL TYPE PRINT BLACK	APPROVED BY:		DATE:	
SIZE:	180mm x125mm (+1,-0)	MAT'L:	Mirror costed paper	FILE NAME:			