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# Before you begin

# Overview



The HWN308 Handset is a sophisticated wireless two-line handset. Key features include:

- Line status screen
- Call transfer
- Conference calling
- System dialing directory
- Caller ID display and log
- Extension to extension calling
- Menu-driven system adminstration.

# **Battery recycling instructions**



The RBRC Battery Recycling Seal on the Nickel-Cadmium (NiCad) battery pack used in HWN handsets indicates that Home Wireless Networks, Inc. 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 and Canada. The RBRC program provides a convenient alternative to placing spent NiCad batteries into the trash or municipal waste streams, which is illegal in some areas.

Please call 1-800-8-BATTERY for information on NiCad recycling in your area. Home Wireless Networks' involvement in this program is part of our commitment to protecting and conserving our natural resources.

# Safety instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury.

- 1. Read and understand all instructions.
- 2. Follow all warnings and instructions marked on the product.
- 3. Do not use this product near water or when you are wet (for example, near a bath tub, kitchen sink, laundry tub, wash bowl, wet basement, or swimming pool). Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Do not plug the product back in until it is thoroughly dry.
- 4. Avoid using a telephone (other than a cordless one) during an electrical storm. There may be a remote risk of electric shock.
- 5. Do not use a telephone in the vicinity of a gas leak. If you suspect a gas leak, report it immediately using a telephone located away from the area where the gas is leaking. Also make sure the Controller unit is located away from the area of the suspected leak.
- 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 that is supplied to your location, consult your dealer or local power company.
- 7. Do not overload the wall outlets or extension cords as this can result in the risk of fire or electric shock.
- Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by people walking on it.
- 9. This product must **not** be installed in an attic, garage or other temperature-extreme environment.

- 10. To reduce the risk of electric shock, do not disassemble the telephone equipment. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly could cause electric shock. If service or repair work is required, take the unit to a qualified technician.
- 11. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - The power cord is damaged or frayed.
  - Liquid has been spilled into the product.
  - The product has been exposed to rain or water.
  - The product has been dropped or the enclosure has been damaged.
  - The product exhibits a distinct change in performance.
  - The product does not operate normally by following the operating instructions.

#### Use with medical devices

This device operates in the frequency range of 902-928 MHz and has a power output level that ranges from 0.001 to 0.10 watts. Before installing and using the device in a location where personal medical devices such as pacemakers, etc., are in use, consult the manufacturer of the medical device to determine if it is adequately shielded from external RF (radio frequency) energy in the indicated range. Do not use this unit in health-care facilities when regulations posted in the area so indicate. Hospitals or health-care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.

#### Battery cautions

To reduce the risk of fire or injury to persons caused by batteries, read and follow these instructions.

- 1. Use only the proper type and size batteries.
- Do not dispose of batteries in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
- 3. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to eyes or skin. It may be toxic if swallowed.
- 4. Exercise care in handling the battery in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
- 5. Charge the Handset battery pack provided with or identified for use with this product only in accordance with the instructions and limitations specified for this product.
- 6. Observe proper polarity orientation when installing batteries.

### Preventing static electricity damage

The components inside your system are extremely sensitive to static electricity, also known as electro-static discharge (ESD). Static electricity can cause irreparable damage to your system. You can help prevent such damage by taking the following precautions:

- Avoid placing static-causing surfaces such as plastic and Styrofoam near this unit.
- Avoid sliding this unit across any surface.

# Year 2000 Compliance Statement

This is a Year 2000 Readiness Disclosure.

Home Wireless Networks, Inc. ("HWN") has taken steps to reasonably ensure that all its software and systems will be Year 2000 ("Y2K") compliant. To the extent that is has not previously done so, HWN is in the process of replacing or upgrading all computer hardware or software that it believes is not Y2K compliant.

For purposes of this Compliance Statement, "Y2K compliance" or "Y2K compliant" is defined by reference to the following criteria:

<u>Criterion</u>	<u>Description</u>
General Integrity	No value for current date will cause interruptions in normal operation
Date Integrity	All manipulations of calendar-related date (dates, durations, days of week, etc.) will produce desired results for all valid date values.
Century Specification	Either (i) date elements in interfaces and data storage permit specifying century to eliminate date ambiguity, or (ii) for any date element represent- ed without century, the correct centu- ry is unambiguous for all manipulations involving that element.

While HWN believes it has implemented reasonable measures to ensure Y2K compliance, HWN does not provide any warranties or remedies for any issues or matters regarding Y2K compliance or the failure thereof.

# Adding Handsets to the network

# **Getting Started**



Before you begin adding Handsets to the network, make sure the Controller is powered up and your incoming phone lines are connected to it.

#### Checking parts

The Handset kit should contain the following parts:

- Handset
- Charging Cradle
- AC Adapter
- NiCad Battery Pack
- Self-adhesive rubber feet for Charging Cradle
- Handset User's Guide

If any parts are missing or broken, call your equipment provider.

#### 8 • Adding Handsets to the network

Installation sequence

Use the following steps to add a Handset to the network.

- 1. Prepare the Charging Cradle
- 2. Install and charge the Handset battery
- 3. Register the Handset with the Controller.

# Preparing the Charging Cradle

#### Procedure

- **1** Determine a location for the Charging Cradle.
  - If mounting the Charging Cradle on a wall, refer to the wall-mounting instructions at the end of this manual.
  - If placing the Charging Cradle on a horizontal surface, attach the protective self-adhesive rubber feet to the underside of the cradle as shown in the following illustration.







**3** Plug the AC Adapter into a standard 120V AC electrical outlet.

# Installing and charging the battery pack

**Note:** Use only Nickel Cadmium (NiCad) batteries supplied by Home Wireless Networks in the Handset. For information on ordering replacement batteries, call 1-888-WHY-WIRE.

For information on recycling spent NiCad batteries, see page 3.

Procedure



Remove the battery cover.

**2** Connect the battery jack and insert the battery pack into place.



**Note:** Be sure to place the end of the battery pack against (not on top of) the rubber spacer in the battery well.



Replace the battery cover.



Place the Handset in the Charging Cradle and charge the battery for 24 hours before using the Handset.



#### Notes:

- If the charger is desk-mounted, the Handset can be placed either face up or face down in the cradle. If the charger is wall-mounted, the Handset must be face-up.
- The LED on the cradle illuminates when the Handset is properly seated.
- Batteries can only be recharged while in the Handset.
- To achieve full battery capacity, new batteries must be charged for a full 24 hours before initial use.
- For best results and to prolong battery life, be sure to fully drain the battery before recharging it.

# **Registering the Handset with the Controller**

Before you can use your new Handset, it must be registered with the Controller so the two devices can communicate with each other. The following procedure describes how to register a Handset from itself.

### Notes:

• You can also register a new Handset from another Handset that is already installed on the network, or from a network PC. For additional information, see the Network Reference Manual that came with the Controller.  If you change Controllers for any reason, you must re-register the Handset with the new Controller.

#### Procedure

1

2

3



During the charging process, the Handset begins displaying the screen shown at left.

Wait until the Handset has charged for a full 24 hours, then enter the **last eight digits** of your Controller serial number. Press **END** when finished.

**Note:** The Controller serial number is located on the label on the inside top surface of the Controller. For additional information, see the Network Reference Manual that came with the Controller.

When asked to confirm the serial number, press **1** (Yes) to confirm or **2** (No) to re-enter the Controller serial number.

When the Handset displays the screen shown at left, enter your Controller password, then press **0** (OK) to continue. (For information about the Controller password, see the Network Reference Manual that came with the Controller.)

Enter password then press IND : ■ \* \* \* The controller was successfully located. 4

🖸 Ok 👘

Unable to contact controller, please try again.
🔲 Ok

When the Handset displays the screen shown at left, press **0** to continue.

**Note:** If the Handset is unable to contact the Controller, it will display the screen shown at left. Check the following:

- Verify that the Controller is plugged into a viable power source.
- Verify that you are entering the correct Controller serial number and password. Be sure to enter the last eight digits of the serial number.
- You may be out of range of the Controller. The network's maximum range is 1500 feet.
   This range can be diminished by objects in the path of the signal.
   Move closer to the Controller and try the registration process again.

Enter name for this handset:		
■×t10≋≋≋≋ ≋≋≋		
END Exit E Space		

5

Once the Controller is successfully located, the Handset displays a screen similar to the one shown at left. Press **END** to accept the default name or use the keypad to overwrite the default name with a new name.

#### Notes:

- The Controller assigns an extension number to each device as it is added. Handsets are numbered sequentially beginning with *Extension 10*.
- Handsets are added with a default name that matches their extension number. Extension 10 therefore has a default name of "Ext10." You may find it helpful to give the Handset a new name that identifies it with a particular location or individual.
- Handset names can be up to 12 characters in length and are entered using the Handset keypad. Press and release the key for the desired letter until the letter appears on the Handset display. Use \* and # as necessary to move back and forth from one space to another. Press END when finished entering the new name.

### Example:

To enter the name "Tom" -

- Press 8 one time to add "T";

- Press 6 three times to add "o";
- Press # to advance to the next space;
- Press 6 one time to add "m";
- Press # to advance to the next space;
- Press 0 as many times as necessary to delete the remaining unwanted text.

When asked if the entered data is correct, press **1** for Yes or **2** for No.

**Note:** You can change Handset names at any time using the Setup menu. For details, see the Network Reference Manual that came with the Controller.

When the Handset displays the screen shown at left, press **0** (OK) to continue.



🔟 Ok

This handset

added to system.

8

6

7

The Handset next displays the screen shown at left. Press **1** (YES) if you want to add another Handset or a Phone Jack to the system, then proceed to Step 9.

If you do not want to add another device to the network, press **2** (NO) and proceed to Step 10.

Select type of device to add:

🖪 Handset 🖻 Phone jack 9

If you pressed **1** (YES) in the preceding step, the Handset displays the screen shown at left.

Press **1** to add another Handset, or **2** to add a Phone Jack.

**Note:** You will be asked to enter the serial number of the new device. Handset serial numbers are located on the underside of the battery cover. Phone Jack serial numbers are located on the plug side of the jack. Be sure to enter the **last eight digits** of the serial number.

The system is now ready for use. Ok

10

When the screen at left is displayed, press **0**. The Handset is now ready for use.

# **Handset Operation**

# **Idle Screen**

When your handset has been idle for 30 seconds, it will return to an idle screen similar to the one shown below.



### Line Status Screen

To view the status of each line, press and release **MENU** until you reach the Line Status screen. See the following example.



### Scrolling through the menus

When in Menu Mode, you can press **END** to return to the previous screen. "Menu Mode" is defined as any screen other than the Idle or Line Status screens.

# Basic Calling Features

Answering an incoming call	Press TALK.	
Answering a specific line	Press the line number of the ringing line.	
	<b>Example:</b> To answer a call on line 3, press 3.	
<i>Making a call using the first available line</i>	1. Press TALK.	
	2. When you hear dial tone, enter the desired number.	
Making a call using a specific line	1. Select the desired line number.	
	2. Dial the phone number.	
	<b>Example:</b> To make a call on Line 3, press 3, then dial the phone number.	
Ending a call	Press END.	
Placing a call on hold	While on an active call, press <b>HOLD</b> . The line number of the Held call will flash.	
Retrieving a held call	Held calls are indicated by a flashing line number. To retrieve the held call, select the line number of the call.	

Call Waiting	When you hear the Call Waiting tone, press <b>FLASH</b> to answer the waiting call. Press <b>FLASH</b> again to return to your original call. You can then toggle between the two calls using <b>FLASH</b> .		
	Notes:		
	<ul> <li>You must subscribe to your telephone company's Call Waiting service in order to use this feature</li> </ul>		
	<ul> <li>If you subscribe to Caller ID with Call Waiting, the waiting party's Caller ID information appears on the Handset preceded by "W:".</li> </ul>		
Calling another extension	<ol> <li>Press and release MENU until you reach the screen containing the Extensions option.</li> </ol>		
	<ol> <li>Select Extensions from the list of menu items.</li> </ol>		
	<ol> <li>Press the desired extension number or scroll down to the desired extension and press 0.</li> </ol>		
	Notes:		
	<ul> <li>The Handset extension number is displayed in the lower right hand corner of the Idle and Line Status screens on each Handset.</li> </ul>		
	<ul> <li>To ring all extensions, scroll down to the Ring All option and press 0.</li> </ul>		
Redialing the last number called	From a non-menu screen, press *.		

Transferring a call	1.	Press and release <b>MENU</b> until you reach the screen containing the Transfer option.
	2.	Select <b>Transfer</b> from the list of menu options.
	3.	Select the extension number you want to transfer the call to.
	4.	Press <b>0</b> (Okay) to transfer the call.
Using the Mute function	The Mute function turns the Handset microphone off. You can still hear the party on the other end, but they can't hear you.	
	1.	While on a call, press and release <b>MENU</b> until you reach the screen containing the Mute option.
	2.	Select <b>Mute</b> to toggle Mute on and off.

Toggling Call Privacy on/off for current call	While on a call, you can override the Line Call Privacy setting using the following procedure.	
	1.	Press and release <b>MENU</b> until you reach the screen containing the Private feature.
	2.	Select <b>Private</b> to turn Call Privacy on or off. When Privacy is turned
		on, a lock symbol <b>I</b> is displayed next to the line number during active calls.
	No	tes:
	•	This procedure affects only the current call. To turn Call Privacy on or off for <b>all</b> calls on a particular line, see the Network Reference Manual that came with the Controller.
	•	When Call Privacy is in effect, other network devices cannot access the line.
	•	In the HWN308, Line Call Privacy is set to OFF by default at time of shipping.

# **Caller ID Features**

**Note:** In order to use the following Caller ID features, you must subscribe to the Caller ID service provided by your telephone company.

#### Incoming Caller ID calls

All HWN Handsets in the network will display available Caller ID data, (unless inbound ringing for the line handling the call has been disabled for a particular Handset). Caller ID data is automatically saved in a Caller ID log. The following example depicts a typical incoming Caller ID call.



### Caller ID Log

Calls are displayed in the Caller ID log in a first-in, first-out order. You can dial from the Caller ID log, save a Caller ID record to your Directory, or delete records from the Caller ID log. The following example depicts a typical entry in a Caller ID log.



<i>Dialing from the Caller ID log</i>	1.	Press and release <b>MENU</b> until you reach the screen containing the Caller ID option.
	2.	Select <b>Caller ID</b> from the list of menu options.
	3.	Use <b>#</b> to scroll through the Caller ID records until the desired entry appears.
	4.	Press <b>5</b> to dial.
	5.	Select the appropriate dialing string from the "Dial As" screen.
Saving a Caller ID record to the Directory (see page 26 for Directory features)	1.	Press and release <b>MENU</b> until you reach the screen containing the Caller ID option.
	2.	Select <b>Caller ID</b> from the list of menu options.
	3.	Scroll through the Caller ID records until the desired entry appears.
	4.	Press <b>6</b> to save the Caller ID information to the Directory.
	5.	Select the appropriate dialing string from the "Save As" list.
	6.	Press END.

<i>Deleting a specific record from the Caller ID Log</i>	1.	Press and release <b>MENU</b> until you reach the screen containing the Caller ID option.
	2.	Select <b>Caller ID</b> from the list of menu options.
	3.	Scroll through the Caller ID records until the desired entry appears.
	4.	Press <b>9</b> to delete the record from the Caller ID log.
Deleting all records from the Caller ID Log	1.	Press and release <b>MENU</b> until you reach the screen containing the Caller ID option.
	2.	Select <b>Caller ID</b> from the list of menu options.
	3.	Press and hold <b>9</b> for at least 3 seconds.
	4.	When the confirmation screen appears, press <b>1</b> (Yes) to clear all records from the Caller ID log.

# **Directory Features**

The HWN308 provides a System Directory capable of storing up to 200 entries. The Directory is available to all Handsets and PCs in the network.

Dialing from the Directory	1.	Press and release <b>MENU</b> until you reach the screen containing the Directory option.
	2.	Select <b>Directory</b> from the list of menu options.
	3.	Locate the desired Directory entry.
	4.	Press 5 to dial the number.
Manually adding an entry to the Directory	<b>Note:</b> Directory names and numbers can be up to 18 characters in length.	
	1.	Press and release <b>MENU</b> until you reach the screen containing the Directory option.
	2.	Select <b>Directory</b> from the list of menu options.
	3.	Press <b>0</b> to add an entry.
	4.	To enter the name, press and release the key for the desired letter until the letter appears. Use * and # as necessary to move back and forth from one space to another. Press <b>END</b> when finished.

<i>Manually adding an entry to the Directory (cont.)</i>	5.	Enter the telephone number exactly as it must be dialed, including "1" and/or area code if appropriate. Press <b>END</b> when finished.
	6.	Press <b>1</b> (Yes) if the directory entry is correct, or <b>2</b> (No) to re-enter the data.
Deleting an entry from the Directory	1.	Press and release <b>MENU</b> until you reach the screen containing the Directory option.
	2.	Select <b>Directory</b> from the list of menu options.
	3.	Locate the desired Directory entry.
	4.	Press <b>9</b> to delete the record from the Directory.

# **Conference Calling Features**

Initiating a Conference Call	<b>Note:</b> You must have at least one outside party on the line first before initiating a Conference Call.	
	1.	Place all parties on hold.
	2.	Press and release <b>MENU</b> until you reach the screen containing the Conference option.
	3.	Select <b>Conference</b> from the list of menu options.
Ending a Conference Call	Pre	ess END.

# **Miscellaneous General Features**

Adjusting the Handset Volume	1. Press and release <b>MENU</b> until you reach the screen containing the Volume option.	
	<ol> <li>Select Volume from the list of menu options to adjust the Handset volume up and down.</li> </ol>	
Adjusting the Ringer Volume	<ol> <li>Press and release MENU until you reach the screen containing the Ringer volume.</li> </ol>	
	<ol> <li>Select <b>Ringer</b> from the list of menu options to adjust the Handset volume up and down.</li> </ol>	
Using Call Forwarding	You can forward all incoming calls on a particular line to another number via the Setup menu. For information on this procedure, see the Network Reference Manual that came with the Controller.	
Voice Mail	If you subscribe to a Voice Mail service, all Handsets in the network display a "Message Waiting Line x" message on the Idle screen when a message waiting signal is sent by the telephone company.	
	<b>Note:</b> For information on activating the Voice Mail feature on your network, see the Network Reference Manual that came with the Controller.	

Locating a misplaced Handset	Option 1	
	If y the froi cau	ou know the extension number of missing Handset, you can dial it m another Handset. This option uses only the called Handset to ring.
	Exa sel me	<b>ample:</b> To locate extension 12, ect Extension 12 on the Extensions nu.
	Ор	tion 2
	If y of t and the	ou don't know the extension number he missing Handset, you can use other Handset to ring all Handsets in network.
	1.	Press and release <b>MENU</b> until you reach the screen containing the Extensions menu item.
	2.	Press 7 (Extensions).
	3.	Scroll through the displayed items until "Ring all" is highlighted.
	4.	Press <b>0</b> (Ring all).

# Regulatory

### Interference information

Some telephone equipment generates, uses, and can radiate radio frequency energy, and if not installed and used properly, may cause interference to radio or TV reception.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the 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 to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

**Note:** Privacy of communications may not be ensured when using this device.

# Warranty & Return Information

#### Limited Warranty, Disclaimer and Limitation of Liability

Home Wireless Networks, Inc. ("HWN") warrants that this product will be free from defects in material and workmanship for a period of one (1) year from the date of purchase by the original consumer purchaser of the product. If a product is found defective during the warranty period, Home Wireless Networks, Inc. will repair or replace (at HWN's option) the product with the same or a similar model, which may be a reconditioned unit, without charge for parts or labor. Any replaced or repaired product will have either a ninety (90) day warranty, under the conditions described herein, or the remainder of the initial one (1) year warranty, whichever is longer.

If you need warranty service, you must, prior to the lapse of the applicable warranty period, file a claim, together with proof of purchase and confirmation from you that you are the original purchaser of the product, with HWN at 1-888-WHY-WIRE.

After a warranty claim is properly filed, HWN will designate a representative to evaluate the warranty claim. This warranty is conditioned upon your reasonably cooperating with HWN in the evaluation of your warranty claim and the implementation of any remedy. When supplying replacement product or parts under this warranty, HWN reserves the right to substitute product or parts of comparable value and design for any discontinued designs. This warranty is not transferable and applies only to the original consumer purchaser. HWN will not honor this warranty if there is any evidence of tampering with the product. This warranty does not cover, and HWN will not be liable for, and does not assume any responsibility for, any breakages, damages or failures caused by misuse, abuse, acts of God, negligence, accidents, improper installation or other causes beyond HWN's control. HWN

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EXCLUDES AND WILL NOT PAY ANY INCIDENTAL AND CONSEQUENTIAL DAMAGES. By this HWN means any loss, expense or damage other than to the product itself that may result from a defect in the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE DURATION OF ANY IMPLIED WARRANTIES IS LIMITED TO THE DURATION OF THE COVERAGE PROVIDED BY THIS LIMITED WARRANTY AS INDICATED IN THE ABOVE CHART; PROVIDED, HOWEVER, THAT NOTHING IN THIS LIMITED WARRANTY SHALL GIVE YOU ANY IMPLIED WARRANTIES YOU WOULD NOT OTHERWISE HAVE, EXTEND THE SAME BEYOND THEIR CUSTOMARY DURATION, OR MAKE HWN LIABLE FOR ANY IMPLIED WARRANTIES THAT IT WOULD NOT BE LIABLE FOR IF THIS LIMITED WARRANTY HAD NOT BEEN GIVEN. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty shall apply only to product that is purchased and installed within the United States. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

#### Return Instructions

Should a Home Wireless Networks system component fail during the 12-month warranty period, contact your HWN Customer Service Representative at 1-888-WHY-WIRE for instructions on returning the failed component. You will be responsible for shipping charges, if any, and for presenting proof of the original purchase date.

# Wall Mounting Instructions

Use the template at the end of this manual to help position the Handset charging cradle on the wall.

- 1 Locate a wall stud in the area where you want to mount the charging cradle.
- **2** Hold the template against the wall with the crossmarks centered on the stud.
- **3** Mark through the center of each crossmark with a pencil or other sharp-pointed object.
- 4 Insert the mounting screws through the wallboard and into the stud at the marked locations. Leave enough of the screw protruding to hold the cradle.
- **5** Connect the Handset AC Adapter to the charging cradle and route the Adapter cord through the channel in the base.



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- 6 Position the cradle against the wall so the mounting screws align with the holes on the underside of the unit.
- **7** Slide the cradle down until it seats firmly on the mounting screws.



### Charging Cradle Wall-Mounting Template

Use this template when mounting the Handset charging cradle on a wall.

To mark the positions of the mounting screws, hold the template against the wall with the crossmarks centered on a wall stud. Push a pencil or pen point through the center of each crossmark to mark the wall.

