



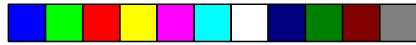
**2.4GHz Digital Cordless Telephone with Caller ID and
Indoor/Outdoor Temperature**
**Teléfono Inalámbrico Digital de 2,4GHz con Identificación
de llamada y lectura de la Temperatura interior/exterior**
Model: TW339/TW339H
User Manual
Manual de Usuario





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**2.4GHz Digital Cordless Telephone
with Caller ID and Indoor/Outdoor
Temperature**

Model: TW339/TW339H
USER MANUAL

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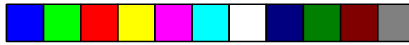
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IMPORTANT SAFETY INSTRUCTIONS

Some of the following information may not apply to your particular product; however, when using conference phone 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 outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. This product should not be used while you are in a bathtub, shower or pool. Immersion of the product in water could cause an electrical shock.
5. Slots and openings in the cabinet back or bottom are provided for ventilation, to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation unless proper ventilation is provided.
6. 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.
7. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
8. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
9. Never push objects of any kind into this product through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
10. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the telephone equipment is subsequently used.
11. Do not expose the product to extreme temperatures such as areas near a hot radiator, or stove, or in a hot car.
12. Do not place lighted candles, cigarettes, cigars, etc., on the telephone.
13. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
14. Never install or modify telephone wiring during a lightning storm.
15. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
16. Use caution when installing or modifying telephone lines to prevent electrical shock and / or fire.
17. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power supply cord or plug is damaged or frayed.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions.
 - If the product's cabinet has been damaged.
 - If the product exhibits a distinct change in performance.
18. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
19. Do not use the telephone to report a gas leak in the vicinity of the leak.
20. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
21. Plug the adaptor to a socket-outlet which is near the equipment and is easily accessible.
22.  Risk of explosion if battery is replaced by an incorrect type, use only SANIK, 3SN-AAA75H-S-J1F. Dispose of used batteries



according to the instructions.

- 23. For servicing or replacement, you can purchase a suitable headset through service center or retailer shop (see in www.oregonscientific.com).

SAFETY TIPS

This product is designed to give you years of service if handled properly. Observe the following guidelines:

- Clean the unit with a damp cloth and mild detergent. Avoid dropping the unit or placing it in a high-traffic location.
- Never immerse the unit in water. This can cause electrical shock and damage the unit.
- Do not subject the Base Unit to extreme force, shock, or fluctuations in humidity.
- Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types.
- Remove the batteries if storing this product for a long period of time.
- Do not scratch the LCD display.
- Do not make any changes or modifications to this product. Unauthorized changes may void your right to use this product.
- The technical specifications for this product and the contents of the user manual are subject to change without notice.

CAUTION

To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

CAUTION



You must use a Class 2 power source that provide in package. Its plug must fit the phone's DC IN 9V jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the phone or the adapter. Always connect the AC adapter to the phone before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect from the phone.

SAVE THESE INSTRUCTIONS

INTRODUCTION

Congratulations on your purchase of this Oregon Scientific telephone. Your 2.4GHz digital cordless telephone is a high-quality home communications product with many advanced features.

It is carefully designed and produced by a world leader of consumer electronic equipment. With proper maintenance and care, your new telephone will provide you with years of enjoyment and service.

KEY FEATURES

Your 2.4GHz Digital Cordless Telephone With Caller ID and Indoor/Outdoor Temperature features:

- Superior Range** - The use of the 2.4GHz frequency band for signal transmission means greater communication range for you, compared to conventional 46–49MHz cordless telephones.
- Ultra-low Noise** - High frequency communication will significantly reduce unwanted noise levels.
- Channel Auto Scan** - Your new telephone uses one of the channels in the 2.4GHz frequency band. It automatically selects a clear channel every time you receive or place a call.

COMPANDER PLUS Noise Reduction - This fourth generation noise reduction technology filters out even more background noise to give you clear communication.

Other features of this product include:

- Caller ID memory that holds up to 30 numbers.
- Electronic telephone book that holds up to 70 numbers.
- Recognition of up to 4 additional handsets for making handset-to-handset calls (intercom) and 3-way calls. Two handsets are shipped with this product. Additional handsets are sold separately.
- Microphone mute function.
- Adjustable ring tones, volume levels, language display, handset IDs and low-battery / out-of-range warning signals.
- Rechargeable batteries and up to 7-hours of continuous talk time.
- Indoor and outdoor temperature display (Celsius or Fahrenheit).

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- Wireless, splash-proof remote sensor.
- Register up to 2 additional remote sensors for displaying individual room or outdoor temperature information.

IMPORTANT: To use all of the features of this telephone, you must subscribe to either the standard Name/Number Caller ID Service or Caller ID with Call Waiting Service from your local telephone company.

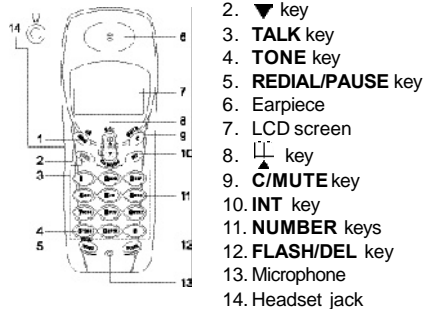
The following items should be included in the TW339/TW339H package:

- Base unit
- Handset cradle (for TW339H)
- 1 handset (2 handsets for TW339H)
- 1 AC adaptor (2 AC adaptors - Base: PI-41-735US, Handset charger: A10920(T) for TW339H)
- 1 belt clip (2 belt clips for TW339H)
- Telephone line cord
- Handset batteries
- Battery order sheet
- Remote sensor
- Sensor table stand
- Sensor wall mount
- Sensor batteries
- User manual

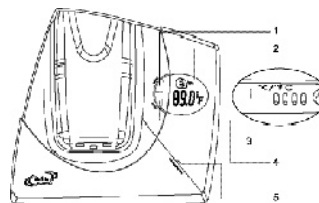
NOTE: You need an RJ11 type modular phone jack. If you do not have a modular jack, call your local phone company to find out how to get one installed.

NOTE : Please keep this manual handy as you use your new product. It contains practical step-by-step instruction, as well as technical specifications and warnings you should know.

HANDSET - FRONT VIEW

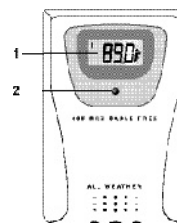


BASE CHARGER - FRONT VIEW

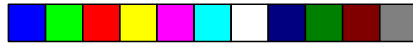


1. TEMP button
2. LCD display
3. °C / °F hole (on bottom of base)
4. PAGE button
5. CHARGE/IN USE indicator

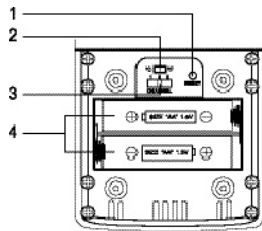
REMOTE SENSOR - FRONT VIEW



1. LCD (temperature) display
2. LED indicator



REMOTE SENSOR - BACK VIEW



1. **RESET** button
2. **°C / °F** switch
3. **Channel selection** switch
4. **Battery compartment**

GETTING STARTED

Some cordless telephones operate at frequencies that may cause interference to nearby TVs, microwave ovens and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV, microwave oven or VCR. If such interference continues, move the cordless telephone farther away from these appliances.

Certain other communication devices may also use the 2.4GHz frequency for communication and, if not set properly, these devices may interfere with your new telephone.

Typical devices that may use the 2.4GH frequency include wireless audio/video senders, wireless computer networks and multi-handset cordless telephone systems.

CHOOSING BASE UNIT LOCATION

When selecting a location for your base unit (which records and displays the indoor temperature), please observe the following guidelines:

- Choose a location that provides easy access to a 120-volt AC power source.
- Choose a location that will allow the telephone cable to reach a telephone jack. (You can use an extension cable if necessary).
- Place the base unit as high as possible to get

a better radio frequency range with the handset. You may need to try several locations – such as upstairs, or near a first-floor landing – to find the best range. Solid structures, such as walls and doors, may reduce the signal strength.

- Do not place the base unit near a sink, bathtub or shower.
- Do not place the base unit near large metal objects or electronic appliances that may cause radio interference. Some of these include: mirrors, filing cabinets, electric stoves, washing machines, microwave ovens, televisions, fluorescent lights or other telephones.
- Do not place the unit near heat sources, such as radiators or air ducts, or in a place subject to direct sunlight.

CONNECTING THE BASE UNIT

To connect the base unit:

1. Plug the AC adaptor into the power jack on the back of the base, and then plug the other end into an electrical outlet.
2. Plug the telephone line cord into the telephone line jack on the back of the base unit, and then plug the other end into a modular phone jack.

NOTE: The adaptor is shipped with the product. Please check the label on the adaptor to make sure you are using the right one.

NOTE: You need a RJ11 modular phone jack. If you do not have a modular jack, call your local phone company to find out how to get one installed.

REMOTE SENSOR SETUP

This product measures the outdoor temperature and then transmits the information to the base unit. It can be used with up to 2 other remote sensors to transmit data back to the base unit. Additional remote sensors that measure temperature are sold separately.

NOTE: If you are using more than one remote sensor, be sure to select a different channel for

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each sensor.

To setup your remote sensor:

1. Place the remote sensor as close as possible to the base unit.
2. Remove the battery compartment cover by using a Philips screwdriver to loosen the screws, and then insert the batteries. (Be sure to match polarities as shown).
3. Assign channel numbers 1, 2, or 3. If you are using more than one remote sensor, select a different channel number for each sensor.
4. Select the temperature measurement units °C or °F (Celsius or Fahrenheit).
5. Press the **RESET** button with the point of a blunt object (such as a ball point pen).
6. Replace the battery compartment cover. Secure.
7. Position the remote sensor using either the stand (included) or the recess hole on the back of the sensor.
8. Connect the adaptor to the base unit, press and hold **TEMP** on the base until the **CH** icon blinks. (It will take 3 minutes for the base to search for available remote sensors even if you only have one sensor).
9. Once the batteries are in place, the sensor will transmit signals every 40 seconds.

NOTE: The readings shown on the base unit depend on which remote sensor (1, 2 or 3) is selected.

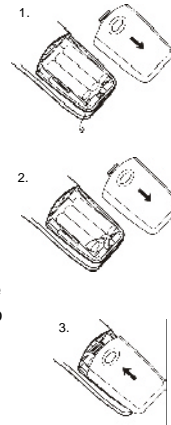
CHANGING THE REMOTE SENSOR CHANNEL

To change the channel on your remote sensor, select a different channel number and then press **RESET** on the sensor.

BATTERY SETUP

To install the battery in your handset:

1. Open the battery compartment cover located at the back of the handset.
2. Plug the battery connector into the socket.
3. Replace the battery compartment cover by sliding it in the direction shown by the arrow in the diagram to the right. The cover clicks into place when it is secured.



CHARGING HANDSET BATTERIES

You must charge the handset batteries for 15 continuous hours the first time you use them.

When the icon appears empty and "CHARGE BATTERY" shows on the LCD screen, or if you hear a warning beep during a call, please:

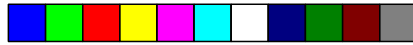
- End the call as soon as possible.
- Charge the handset by putting it back on the base cradle with the keypad facing outwards. (The blue **CHARGE** LED on the base unit steadily lights to indicate that the handset is charging).

NOTE: It is normal for the handset and base to get warm when the handset is charging on the base.

TEMPERATURE UNIT

The temperature display switch is located on the bottom of the base unit. Use the tip of a pointed object (such as an unfolded paperclip) to switch between Celsius and Fahrenheit. The unit of measurement should match the unit you selected for the remote sensor.

NOTE: When the outdoor temperature reaches 40



°C (104 °F) or higher, the base unit will display "HI". When the outdoor temperature falls below -20 °C, the base unit will display "LO".

INITIAL PROGRAMMING

Before using this telephone, the following initial settings must be completed.

LANGUAGE SETTING

To set the language:

1. Press **MENU/OK** to enter the options menu.
2. Scroll or until you see "LANGUAGE".
3. Press **MENU/OK** to enter settings.
4. Press or to select the desired language (English, Spanish or French). The default language is English.
5. Press **MENU/OK** to confirm.

HANDSET NAME

You can use up to 16 characters to name a handset. The name will appear in the handset display screen while in standby mode.

To name your handset:

1. Press the **MENU/OK** key.
2. Press or to select "HANDSET NAME".
3. Press **MENU/OK** to begin settings, "NAME" will appear on the handset display.
4. Enter a name for your handset. (Please refer to the STORING A NAME/NUMBER IN THE DIRECTORY section for details about how to input characters).
5. Press **MENU/OK** to save the name.

DIAL MODE

This phone is compatible with pulse-dialing (rotary) and tone-dialing (DTMF) systems. If you have touch-tone service, do nothing as your phone has been set to DTMF by default prior to shipment. If you do not know which type of service you have, contact your local telephone company.

To set the dial mode:

1. Press the **MENU/OK** key.

2. Press or to select "DIALING" from the options.
3. Press the **MENU/OK** key.
4. Press or to select "DIAL METHOD" from the submenu.
5. Press **MENU/OK**.
6. Press or to select "PULSE" or "DTMF" mode.
7. Press **MENU/OK** to confirm your selection.
To return to standby mode, press **C/MUTE** repeatedly.

FLASH TIME

Consult with your telephone company before changing the flash time setting. Changing this setting may cause your telephone company service (such as call waiting) to not work properly.

To select flash time:

1. Press the **MENU/OK** key.
2. Press or to select "DIALING" from the options.
3. Press the **MENU/OK** key.
4. Press or to select "FLASH TIME" from the submenu.
5. Press **MENU/OK**.
6. Press or to select "LONG" or "SHORT". (The default setting is LONG).
7. Press **MENU/OK** to confirm your selection.

KEY LOCK

You can lock the keypad to prevent keys from accidentally being pressed.

To lock the keypad:

1. Press **MENU/OK**.
2. Press or to scroll to "KEY LOCK".
3. Press **MENU/OK** to enter the "KEY LOCK" submenu.
4. Press or to select "ON".
5. Press **MENU/OK** to confirm settings. (The default setting is OFF).

To unlock the keypad, press 1, 5, and 9 to unlock the keypad. (The key lock is disabled in the event of an incoming call, but returns to key lock when

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the call ends).

NOTE : To dial an emergency number while the keypad is locked, press **TALK**, followed by the emergency number (000, 110, 112, 119, 911, 999).

KEYTONE

Turn this feature on to hear a tick every time a key is pressed on the keypad. (This option is not available when the keypad is locked).

To activate the key tone option:

1. Press the **MENU/OK**.
2. Press \uparrow or \downarrow to scroll to "KEY CLICK".
3. Press **MENU/OK**.
4. Press \uparrow or \downarrow to select ON or OFF.
5. Press **MENU/OK** to confirm settings. (The default setting is ON).

HANDSET RING TONE

You have a choice of 10 ring tones for both internal and external calls. Therefore you can tell from the sound of the ring whether the call is coming from an external or internal source if you want.

To select a ring tone:

1. Press the **MENU/OK** key.
2. Press \uparrow or \downarrow to select "RING PATTERN" from the options.
3. Press **MENU/OK** to select.
4. Select the ring tone you wish to change (internal or external) by pressing \leftarrow or \rightarrow .
5. Press **MENU/OK** to enter the ring tone selection submenu.
6. Press the \uparrow or \downarrow keys, or the number keys (0-9) to choose a ring tone sound (0-9).
7. Press **MENU/OK** to confirm settings. (The external ring default setting is 0. The internal ring default setting is 1).

NOTE: To return to standby mode, press **C/MUTE** repeatedly.

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HANDSET RING VOLUME LEVEL

To change the ring volume level while the handset is in standby mode:

1. Press the **MENU/OK** key.
2. Press \uparrow or \downarrow to select "RING VOLUME" from the options. (There are 7 volume levels).
3. Press **MENU/OK** to enter settings.
4. Press \uparrow (to increase) \downarrow (to decrease) the volume, or press the number keys (0-6) to select the desired ring level.
5. Press **MENU/OK** to confirm settings. (The default setting is 4).

NOTE : You can turn the ringer off by setting the volume level to zero.

EARPIECE VOLUME LEVEL

To change the volume level while the handset is in standby mode:

1. Press the **MENU/OK** key.
2. Press \uparrow or \downarrow to select "HANDSET VOLUME" from the menu. (There are 8 volume levels for the handset).
3. Press **MENU/OK** to enter settings.
4. Press \uparrow (to increase) \downarrow (to decrease) the volume, or press the number keys (0-7) to select the desired volume level.
5. Press **MENU/OK** to confirm settings. (The default setting is 4).

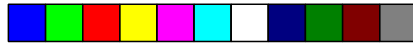
NOTE: To change the volume while a call is in progress, press \uparrow or \downarrow until you reach the desired level.

AUTO ANSWER ON / OFF

The auto-answer feature allows you to answer a telephone call as soon as you lift the handset from the cradle in the base unit.

To activate the auto-answer feature:

1. Press the **MENU/OK** key.
2. Press \uparrow or \downarrow to find "AUTO ANSWER" from the options.



3. Press **MENU/OK** to enter settings.
4. Press or to select "OFF" or "ON".
5. Press **MENU/OK** to confirm your selection.
(The default setting is OFF).

CLEAR MESSAGE WAITING

To clear message waiting:

1. Press the **MENU/OK** key.
2. Press or to select "CLEAR MSG WAIT".
3. Press **MENU/OK**. The screen will show "CONFIRM?"
4. Press **MENU/OK** again to confirm, or press **C/MUTE** repeatedly to return to stand-by mode.

BASICS

When you first set up your telephone, you may hear a beeping tone and see "OUT OF SERVICE" on the handset display area. This is normal. It means that the handset needs to synchronize with the base unit before you can use it.

Place the handset on the charger for a few seconds until "READY" appears on the handset display.

STAND-BY MODE

If the handset is synchronized with the base unit and is not "in use" or in "programming mode", "READY" (or a name if entered) will appear on the LCD display. This is standby mode.

RECEIVING A CALL

When an incoming call is received, the handset will ring, "EXTERNAL CALL" will show on the display and the in-use LED on the base unit will flash. If you are already on the line, a beep will announce you have a call waiting.

NOTE: If you subscribe to a caller ID service from your phone company, caller ID information will be shown on the display instead of "EXTERNAL CALL".

To receive a call:

1. Press **TALK**, the # key or any number key (0-9) to answer a call.
2. Press the **TALK** button again to hang up.

NOTE: If the handset is in the base cradle, remove it from the base before pressing the **TALK** key. If "AUTO ANSWER" is enabled, you can accept an incoming call by simply lifting the handset off the base.

NOTE: If you place the handset back to the base cradle, the handset will automatically hang up.

MAKING A CALL

To make a call, press **TALK** to get a dial tone then enter the number, or dial the number first (up to 24 digits) then press **TALK**.

To end the call, press **TALK** again or place the handset on the base cradle so the handset automatically hangs up. ("ENDED" will appear on the display to confirm that the call has ended).

CORRECTING A CALL

You can correct a dialing error before the number has been dialed (i.e. before pressing talk). To correct a dialing error you can do one of the following:

- Press the **FLASH/DEL** key to clear the digits one by one.
- Press and hold **FLASH/DEL** to clear all the digits at once.
- Press **C/MUTE** to clear all the digits at once.

REDIALING

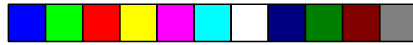
To redial one of the last 5 numbers called, you can do one of the following:

1. Make sure the phone is OFF (not in TALK mode).
2. Press **REDIAL/PAUSE** repeatedly to select a desired last number, and then press **TALK** to redial the selected number.

OR

1. Make sure the phone is ON by pressing **TALK**.

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- Press **REDIAL/PAUSE** repeatedly to scroll through a list of numbers, and then press **MENU/OK** to redial the selected number.

RETURNING MISSED CALLS

If you subscribe to a caller ID service through your local network provider, this telephone can keep track of all missed call information. When you miss a call, the handset will display "New Calls" along with the number of calls you missed. To review a call history with caller ID information, press ▼.

Then press  or ▼ to review.

To dial the selected number, press the **TALK** key.

THE MUTE KEY

To have an off-line conversation, use the mute feature. The caller on the other end of the line cannot hear you, but you will be able to hear them.

To mute the telephone:

- While a call is in progress, press **C/MUTE** on the handset. ("MIC MUTE" will appear on the handset display).
- Press **C/MUTE** again to return to your phone conversation. ("EXTERNAL CALL" will be shown on the handset display).

HANDSET LOCATOR

To locate a misplaced handset, press the **PAGE** key on the base unit. All handsets will beep and the screen will show "BASE PAGING".

To end a page, do one of the following:

- Press **TALK** or any key (0-9) * or # on the handset.

OR

- Press **PAGE** on the base unit.

LOW BATTERY WARNING

If the battery is low and the phone is in TALK mode, a warning tone consisting of 2 short beeps will sound from the handset earpiece every 9

15 seconds. "CHARGE BATTERY" will show on screen.

If the battery is low and the phone is in STANDBY mode, a warning tone consisting of 2 short beeps will sound from the handset every 15 seconds. ("CHARGE BATTERY" shows on screen).

VOICE MAIL INDICATOR

When you subscribe to a voice mail service offered by your phone company, the phone alerts you when voice mail has been received. "MESSAGE WAITING" appears on screen when a voice mail is received. The orange LED on the base unit flashes slowly to indicate there is voice mail waiting.

After the voice mail has been viewed, the message indicator disappears.

CALLER ID FEATURES

This phone receives and displays incoming call information transmitted by your local phone company, provided you subscribe to Voice Mail, Caller ID, and/or Call Waiting services. This information can include the phone number and/or the name, date and time. The phone can store up to 30 calls for review.

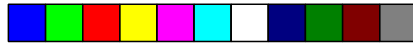
IMPORTANT: To use all of the features of this telephone, you must subscribe to either the standard Name/Number Caller ID Service or Caller ID with Call Waiting Service from your telephone company.

CALLER ID WITH CALL WAITING

When you subscribe to Caller ID with Call Waiting (Visual Call Waiting TM) service from your phone company, you are able to see who is calling when you hear the Call Waiting tone. Caller identification information appears on screen after you hear the tone.

Press **FLASH/DEL** to put the current call on hold so that you can answer the incoming call.

NOTE: Do not use the **TALK** key to activate



custom calling services such as Call Waiting, or you will end the current call.

To return to the call, press **FLASH/PROG** again.

IMPORTANT: To know who is calling while you are on the phone, you must subscribe to Caller ID with Call Waiting Service from your telephone company.

CALLER ID LIST

The incoming caller information transmitted from the phone company is received by your phone between the first and second rings and stored in the Caller ID list. If you answer a call before the second ring, the caller information may not be stored.

When the Caller ID list memory is full, a new call automatically replaces the oldest call in memory. An exclamation mark appears on screen for calls received that have not been reviewed.

IMPORTANT: To know who is calling while you are on the phone, you must subscribe to Caller ID with Call Waiting Service from your telephone company.

REVIEWING YOUR CALLER ID LIST

All incoming calls with valid Caller ID information are stored in a call log. Call log numbers shown to the right of the telephone number marks the number of calls in the order that they are received (1 = the most recent). Each time a new call is received, the call log will be resorted to display the most recent call.

To review the Caller ID log:

1. Press **MENU/OK** to enter the menu.
2. Press **MENU/OK** to select "CALL LOG".
3. Press **▼** to scroll through the Caller ID list from the most recent to the oldest.
4. Press **▲** to scroll through the Caller ID list from the most oldest to the recent.
5. Press **C** to exit the call log.

TIP: Press **▼** in standby mode to enter call log

quickly or press **TALK** to dial the number currently displayed.

NOTE: "CALL LOG EMPTY" will show if there are no calls.

DELETING ENTRIES FROM CALLER ID LIST

All handsets share a common call log that is stored in the base unit memory.

IMPORTANT: When more than one handset is registered to a base unit, a call log deleted in one handset will affect all handsets.

Deleting the displayed entry:

1. Make sure the phone is OFF (not in TALK mode).
2. Press **▲** or **▼** to find the entry you want to delete.
3. Press **FLASH/DEL** while the number you wish to delete is displayed. "DELETE?" will show on screen.
4. Press **MENU/OK** to confirm the deletion or **C/MUTE** to cancel the deletion.

Deleting all entries

1. Make sure the phone is OFF (not in TALK mode.)
2. Press **▲** or **▼** to display any entry.
3. Press and hold **FLASH/DEL**. "DELETE ALL?" will show on screen.
4. Press **MENU/OK** to confirm the deletion or **C/MUTE** to cancel the deletion.

DIRECTORY

This telephone can store up to 70 names and telephone numbers. Entries are limited to 15 characters for names and 16-digit numbers for telephone numbers and all handsets share a common phone book that is stored in the base unit memory.

IMPORTANT: When more than one handset is registered to a base unit, any entry stored or deleted in one handset will affect all handsets.

ZE



NOTE: Shared configurations are available where individual handsets are sold. Please check with your local distributor to find out if this option is available in your area.

STORING A NAME/NUMBER IN DIRECTORY

To store a name/number in your directory:

1. Press **MENU/OK** in standby mode.
2. Press or to select "PHONEBOOK", then press **MENU/OK**.
3. Press or to select "STORE", then press **MENU/OK**.
4. At the "STORE NUMBER" display, enter the number using the keypad, including any prefixes or country codes. (If you make a mistake, press the **FLASH/DEL** key to delete a digit one at a time. If you wish to add a pause, press **REDIAL/PAUSE** once at the desired location. Each pause counts as 1 digit in the dialing sequence).
5. Press **MENU/OK**.
6. At the "STORE NAME" display, enter the name using the keypad. The cursor advances 1 space after each key press. Within 1 second, you can press the same key again to select another character. If you make a mistake, press **FLASH/DEL** to delete a character one at a time. (Use the chart below as a guide).
7. Press **MENU/OK** to confirm. A beep tone will confirm that the number has been saved.

[PLEASE LAYOUT IN CHART FORMAT]

Key		key of times pressed								
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th
1	Space	1								
2	A	B	C	2	a	b	c			
3	D	E	F	3	d	e	f			
4	G	H	I	4	g	h	i			
5	J	K	L	5	j	k	l			
6	M	N	O	6	m	n	o			
7	P	Q	R	S	7	p	qrs			
8	T	U	V	8	t	u	v			
9	W	X	Y	Z	9	w	xyz			
0	0									
*	*	?	!	/)					
#	#	'	,	-	.	&				

TIP: Press **FLASH/DEL** to clear the last character, then press and hold **FLASH/DEL** to clear all. To return to "STANDBY MODE", press **C/MUTE** repeatedly.

NOTE: If you try to store a new number in the phonebook when it is full, the message "PHONEBOOK FULL" is displayed and the phone returns to the phonebook menu after 5 seconds. You need to delete some numbers to free up the phonebook memory so that you can store new numbers.

MAKING CALLS FROM THE DIRECTORY

1. Press **MENU/OK**.
2. Press or to select "PHONEBOOK", then press **MENU/OK**.
3. Press or to select "RECALL", then press **MENU/OK**.
4. Press or , or enter the first character of the desired name to select the desired phonebook entry.
5. Press **TALK** to call.

TIP: Press in standby mode to enter phonebook quickly.

DELETING AN ENTRY

To delete an entry from the telephone book:

1. Press **MENU/OK**.
2. Press or to select "PHONEBOOK", then press **MENU/OK**.
3. Press or to select "RECALL", then press **MENU/OK**.
4. Press or , or enter the first character of the desired name to select the desired phonebook entry.
5. Press **FLASH/DEL**. "DELETE?" shows on screen.
6. Press **MENU/OK** to confirm or **C/MUTE** to go back. A confirmation tone can be heard and the menu steps to the next entry.



CHANGING A STORED ENTRY

To change an entry in the telephone book:

1. Press **MENU/OK**, then select "PHONE BOOK" by pressing or .
2. Press **MENU/OK**.
3. Press or to select "RECALL", then press **MENU/OK**.
4. Press or , or enter the first character of the desired name to find the desired phonebook entry.
5. Press **MENU/OK** to edit the number, "STORE NUMBER" will appear.
6. Press **FLASH/DEL** or to erase a digit. Press and hold **FLASH/DEL** to erase the entire number. Then enter the correct number.
7. Press **MENU/OK** to edit the name. "STORE NAME" will appear.
8. Press **FLASH/DEL** or to erase a character. Press and hold **FLASH/DEL** to erase the entire name. Then enter the correct name.
9. Press **MENU/OK** to confirm that the change has been saved.

2. Press or to select desired Caller ID entry.
3. Press **REDIAL/PAUSE** to rearrange the format of the number displayed.
4. Press **MENU/OK**. "STORE NUMBER" will appear on screen.
5. Edit the number if necessary.
6. Press **MENU/OK** to edit the name. "STORE NAME" will appear.
7. Edit the number if necessary.
8. Press **MENU/OK** to confirm the change. (A beep will sound to confirm the changes).

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MULTI-HANDSET CONFIGURATION

The TW339H is shipped with 2 handsets (the TW339 is shipped with one handset only) and can work with up to 4. To purchase additional handsets, please check the place of purchase for more information.

TO REGISTER A NEW HANDSET

The original handset(s) received with your base unit and the cradle are automatically registered the first time you set up the telephone. You can add up to 2 additional handsets by registering them with the base unit.

NOTE: If you register a handset to more than one base, you will need to rename the handset for that base. Otherwise, the base will recognize it as "Handset 1".

To register a new handset:

1. Press the **MENU/OK** key.
2. Press or to select "REGISTER", and then press **MENU/OK** to choose it.
3. When the handset display shows "PLEASE WAIT", press and hold **PAGE** on the base unit until the orange in-use LED flashes quickly.
4. If the registration is successful, "SUCCESS" will show on the handset display.

NOTE: If the registration is unsuccessful, "FAIL" will show on the handset display. In this case, you should try again.

STORE CALLER ID ENTRIES IN DIRECTORY

You can store received numbers into your phonebook memory. Before you save an entry, make sure the number appears in proper digits for your dialing area. If not, change it using the **REDIAL/PAUSE** key.

For example, if the Caller ID number appears 1-416-222-5555, but it is not a long distance number, press **REDIAL/PAUSE** key until it shows 416-222-5555 (without 1). The **REDIAL/PAUSE** key lets you select how many digits of the number are displayed:

- **7** = 7-digit telephone number.
- **10** = 3-digit area code + 7-digit telephone number.
- **11** = 1-digit long distance code + 3-digit area code + 7-digit telephone number.

To store caller ID entries in your directory:

1. Press in standby mode to enter call log quickly.



IDENTIFYING A HANDSET ON THE NETWORK

If you have more than one handset registered to a base unit, you can identify each handset by assigning a name to it. Please see the **HANDSET NAME** section for more information.

INTERCOM (INTERNAL) CALLS

This feature only works if you have 2 or more handsets registered to the base unit.

To make an internal call:

1. Press **INT** on the first handset.
2. Press  or  to select the desired handset or choose "CALL ALL".
3. Press **TALK** to place the call. The selected handset will ring. If you select "CALL ALL", all other handsets registered to the base unit will ring. If the selected handset is not available (off hook or on another call), "BUSY" shows.
4. To accept the intercom call on the handset, press **TALK**.
5. To exit intercom mode on the first handset, press **TALK**.

NOTE: During the first handset calls the other handset, there may be an incoming call in which the first handset will hear a call waiting tone and the other handset will return to normal incoming call tone.

INTERCOM RING TONE



You can change the ring tone for an intercom call to differentiate internal from external calls. To change the ring tone, please see **HANDSET RING TONE SETTING** on page 16 for more information.

CALL TOGGLING

This feature only works if you have two or more handsets registered to the base unit. The feature allows you to put an external call on hold while you place an intercom call to another handset.

To toggle between two calls:

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

1. Establish contact with an external party by either placing a call or answering an incoming call.
2. Press **INT** to put the external call on hold and enter intercom mode.
3. Press the number (1-4) for the handset you wish to select, or use the  or  keys to select the handset.
4. Press **TALK** to place an intercom call to the selected handset. "H" shows on the display to indicate the external call is on hold.
5. Press **INT** on the handset. This initiates call toggling to place the intercom call on hold and return to the external call.
6. Press the **TALK** key on the selected handset to end the intercom call and return to the external call.

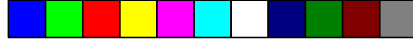
NOTE: If the selected handset is not available, "BUSY" shows and then a call back is generated. "CALL BACK" is displayed on the handset display. You can press **TALK** to return to the caller.

3-WAY CONFERENCE CALL

If you have more than one handset registered with your base unit, you can make 3-way conference calls between an external call party and two internal handset holders.

To initiate a 3-way conference call:

1. Establish contact with the external party by either placing a call to that person, or answering an incoming call.
2. Press **INT** then press  or  to choose a handset name.
3. Press **TALK** to connect to the selected handset. (The handset you paged rings. The internal party can answer the call by pressing the **TALK** key).
4. The caller who made the conference call should press and hold the **INT** key for approximately 2 seconds until "CONFERENCE CALL" shows on the display and you hear a confirmation beep. (All three parties are connected into the call and can thus talk together).



NOTE: You can end a 3-way conference call exactly as you would any other call. Just press **TALK**. The connection continues between the remaining handset and the external party.

NOTE: If a handset is connected to the external line, you can initiate a conference call from another handset by simply picking up the handset and pressing **TALK**. The first handset can hear a beeping sound and "CONFERENCE CALL" will show on the display.

CALL WAITING

If you receive an external call while you are talking to someone through the intercom, you will hear a call waiting tone. To end the intercom call and answer the external call, press the **TALK** key on any handset.

The other handset will beep and "BUSY" will show on the screen. To end the intercom call without answering the external call, press and hold **INT** for several seconds.

TRANSFERRING CALLS BETWEEN HANDSETS

You can transfer an external call from one handset to another if you have registered more than one handset with the base unit.

To transfer a call:

1. During a telephone conversation, press the **INT** key to place the caller on hold.
2. Press \uparrow or \downarrow to choose the handset name to which you wish to transfer the call.
3. Press **TALK**, then wait for the other handset to answer. The handset you paged will ring, with "INTERNAL CALL" showing on the LCD display. Another party can answer the call by pressing **TALK**.
4. Press the **TALK** key on the first handset, and another handset will connect the external line. If there is no answer, press **INT** again to return to the caller.

OR

1. During a telephone conversation, press the **INT** key to place the caller on hold.

2. Press \uparrow or \downarrow to choose the handset name to which you wish to transfer the call.
3. Press **TALK** to connect to the selected handset. Then press **TALK** again or place the handset in the charger. You do not need to wait for the other handset to answer.
4. The selected handset will ring and "FORWARDED CALL" will show on the LCD display. Another party can answer the call by pressing **TALK**.

NOTE: If you forward a call to all handsets, all handsets (including the one from which you are making the call) will ring at the same time.

CALL BACK

After a call forward function has been executed, a call back is generated in the forwarding handset if the forwarding call is not answered within 30 seconds.

If no Caller ID information is available, "CALL BACK" is displayed on the handset display. You can press the **TALK** key to return to the caller.

NOTE: If the returned call isn't answered within 30 seconds, the call is automatically cancelled.

TEMPERATURE MONITORING

The temperature is shown on the handset display area and base unit display. You can choose to show the temperature in Celsius or Fahrenheit units of measurement on both the base unit and the remote sensor(s).

INDOOR TEMPERATURE

The handset and base unit displays indicate where the temperature reading is coming from.

To select the Indoor Temperature, press **TEMP** (located on the base unit) repeatedly until "IN" appears on the base unit display.

NOTE: It may take a few seconds for the handset display to be updated.

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OUTDOOR TEMPERATURE

To monitor the outdoor temperature, press **TEMP** on the base unit repeatedly until "OUT" appears on the base. (It may take a few seconds for the handset display to be updated).

If no temperature reading displayed, press **TEMP** repeatedly until the temperature is displayed together with the "OUT" icon.

When the outdoor temperature reaches 40 °C (104 °F) or higher, the base unit will show "HI". When the outdoor temperature falls below -20 °C, the base unit will show "LO".

NOTE: This product supports up to 3 remote sensors. Each sensor must be assigned a different channel number (1, 2, or 3). If you cannot locate a sensor, refer to the SENSOR SEARCH section below.

TIP: Place up to 3 remote sensors in important areas of your home, such as the baby's room, wine cellar, greenhouse, etc. (Additional remote sensors are sold separately).

SENSOR SEARCH

Sometimes interference causes the base unit to lose connection with a sensor. When this happens, press and hold **TEMP** for 5 seconds to initiate a remote sensor search. The **CH** icon will blink while the search is in progress.

NOTE: Batteries must be installed in the remote sensor and be in good working order. Under normal usage, the batteries should be replaced after one year.

NOTE: The search may take up to 3 minutes. The remote sensor should be no further than 25 meters (82 feet) from the base unit.

CHANGING REMOTE SENSOR CHANNELS

The wireless remote sensor uses radio frequencies to communicate with the base unit. Channels can be assigned for up to three sensors so you can monitor the temperature in three different locations.

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To change the channels:

1. Remove the back cover.
2. Select the channel by sliding the channel selector switch located inside the battery compartment.
3. Press the **RESET** button with the tip of a ballpoint pen or unfolded paper clip.
4. Replace the cover.
5. Press and hold **TEMP** on the base unit for 5 seconds to search for the sensor.

CHANGING THE HANDSET BATTERY

When the handset operating time becomes short even after a battery has been recharged, please replace the battery. With normal usage, your battery should last about one year.

For a replacement battery, please contact your place of purchase.

CAUTION: Use only the specified battery type (3.6V, 750mAh), and do not remove the battery from the handset to charge it. Remember never throw the battery into a fire, disassemble it, or heat it, and never remove or damage the battery casing.

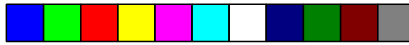
NOTE: Remove the battery only if you are storing the phone for more than 30 days.

REPLACING THE BATTERY

1. Make sure the telephone is turned OFF.
2. Slide off the battery compartment cover.
3. Disconnect the battery plug from the jack in the compartment and remove the battery pack.
4. Insert the new battery pack and connect the cord into the jack.
5. Put the battery compartment cover back on.
6. Place handset on the base to charge the new battery for 15 hours.

NOTE: Charge the new handset battery for 15 continuous hours prior to first use. The initial battery charge is important to ensure best performance.

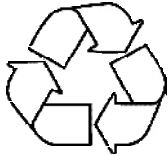
CAUTION: To reduce the risk of fire or personal



injury, use a 3.6 V, 750mAh battery (replacement part number: 001-800369-30014).

RECYCLING NICKEL-METAL HYDRIDE BATTERIES

Nickel-metal hydride batteries *must be disposed of properly.*



Please take your used battery pack to a store that recycles Ni-MH batteries.

HEADSET JACK AND BELT CLIP

An optional headset can be used with your telephone for hands-free conversation.

To use a headset, plug it into the **HEADSET** jack located on the side of the handset. When the headset is connected, the handset earpiece and microphone are disabled.

While the headset is connected, press **TALK** to answer or place a call.

TIP: Use the belt clip for a real hands-free conversation experience.

NOTE: Headsets are not included.

BELT CLIP

To attach the belt clip to the back of the handset:

1. Slide the belt clip over the back of the handset until the ventilation holes are aligned.
2. Gently push the belt clip until it clicks into place.

POWER FAILURE

During the period that the power is off, you will not be able to make or receive calls with the telephone.

After a power outage, it may take a few seconds for the handset to reconnect to the base unit.

LCD SCREEN MESSAGES

The following indicators show the status of a message or of the phone:

BASE PAGING - Someone has pressed **PAGE** on the base unit.

BUSY - The dialed number or handset is busy.

CALL ALL - An intercom call has been placed to all registered handsets.

CALL BACK - A forwarded call was not answered.

CH - Remote sensor channel. The selected channel number will display.

CHARGING - Battery is charging.

CONFERENCE CALL - 2 handsets are on a conference call.

ENDED - The call has ended. The elapsed time for the call also shows.

EXT IN USE - Another handset is already on an external call.

EXTERNAL CALL - A call was received with no Caller ID information provided.

FAIL - Registration did not occur.

H - A call has been placed on hold.

HI - Temperature is over 60 ° C.

IN - Indoor temperature is shown.

INTERNAL CALL HANDSET # / HANDSET NAME - An intercom call has been placed from the displayed handset.

MIC MUTE - The handset is in mute mode.

OUT - Outdoor temperature is shown.

PRIVATE # / NAME / CALLER - Some or all of the Caller ID information was blocked.

READY - Phone is charged and ready to make or receive calls.

TALK - Phone is in Talk mode ready to place a call. If on a call, the duration of the call also shows.

UNKNOWN # / NAME / CALLER - Some or all of the Caller ID information was not sent with the call.

FORWARD CALL - A call is being forwarded.

DELETE? - Prompt asking if you want to erase the current Caller ID entry or a directory entry that is shown on screen.

DELETE ALL? - Prompt asking if you want to erase all Caller ID information.

MESSAGE WAITING - Caller has left a message but you must subscribe to a voice mail service offered by your local phone company for this to work.

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STORE NUMBER - Prompt telling you to enter the telephone number for directory.

STORE NAME - Prompt telling you to enter the name in directory.

PHONEBOOK EMPTY - There is no record stored in the selected directory location.

CALL LOG EMPTY - There is no record stored in the selected call log location.

NO LINE - Telephone line is disconnected from the base unit.

KEY LOCKED - The keypad is locked.

OUT OF SERVICE - When the handset is out of range or the base unit experiences power failure.

CHARGE BATTERY - When the battery is low.

PLACE IN CHARGER - The battery voltage is too low.

RINGER OFF - The ringer is switched off.

LO - Temperature falls below -20°C .

LIGHT SIGNALS

The charge / in use indicator will change under the following conditions:

Talking	Lit steadily (orange)
Charging	Lit steadily (blue)
Incoming call	Flashes in same pattern as telephone ring (orange)
Voice mail	Flashes every 2 seconds (orange)
No telephone line	Flashes every second (orange)

SOUND SIGNALS

A long warbling tone	Signals an incoming call
Single tone	A key is pressed
Two short beeps	Call waiting / MIC mute
One long beep	Confirmation tone / page signal / call back
Three short beeps	Error tone / out of range
Two short beeps (every 15 seconds)	Low battery warning

TROUBLESHOOTING

TELEPHONE

No dial tone

Check installation:

- Is the base unit plugged into the telephone

line and AC power source?

- If the telephone line is not properly connected to the base unit "NO LINE" will appear on the handset display.
- Is the AC power source turned on at the socket?
- Are the batteries properly installed in the handset?

Dial tone is OK, but cannot dial out

Try moving the handset closer to the base unit.

- If this doesn't work, try a different position for the base unit. (Typically, the higher you place the base unit, the better the reception).
- The battery charge level may be low. Check the LCD display for the low battery-warning signal. If the battery is low, place the handset in the base unit's charging cradle to charge.
- Check the power connection by switching off the power at the main socket. Wait a few seconds, then switching it back on.
- Check to make sure that the phone and base unit are within the range of transmission.
- The handset may be unable to find the base unit. Try moving the handset closer to the base unit. If the problem persists, try moving the base unit in a suitable position nearer to the handset.
- If you have registered additional handsets to the same base unit, make sure they are not already on a call. The LCD display on your handset will display EXT IN USE if the line is engaged.
- The dial mode setting may be incorrect. See the DIAL MODE section for instructions on how to change the dial mode.

Handset does not ring

Check that you have not turned off the ringer volume level. Also, you may have too many extension phones on your line. Try unplugging some phones.

Call was disconnected

Please move the handset closer to the base unit. Also, you may want to consider moving the base unit to achieve a greater range of transmission.

Keys do not work / [KEY] shows on screen

The symbol means that the keypad lock feature has been activated.



Phone beeps

The battery may need to be recharged.

- Put the handset into the charging cradle of the base unit. It may take up to 15 hours to fully recharge the battery.
- Your handset may temporarily lose its synchronization with the base unit due to radio interference in your area. When this happens, "OUT OF SERVICE" shows on the handset display.
- If you do not wish to hear the beep tone, you can turn it off. See the KEY TONE section for more information.

Low battery warning

If you just recharged the batteries, but keep getting a low battery warning, the batteries may need to be replaced.

- Rechargeable batteries gradually lose their ability to store a charge the older they get. Simply replace the battery with a new one.

MULTI-HANSET USE

Cannot register new handset

Sometimes it helps to unplug and then reconnect your base unit to its AC power source before you start the registration procedure.

- You may have already registered 4 handsets to the base unit.
- If you are replacing a faulty handset, make sure you have fully removed the faulty one before registering the new one.
- If you are still experiencing problems, you will need to reset all the registrations then start over.

Cannot dial out

Only one outside call and one intercom call can take place at the same time. Make sure no one else is already using the phone; if so, you will see the EXT IN USE symbol on the handset display area.

All handsets show "OUT OF SERVICE" and telephone will not work

Reset your telephone, and then try the registration process again.

- If you are still experiencing problems, reset and then re-register all your handsets one-by-one.

CALLER ID

No Caller ID display

You must subscribe for Caller ID services through your telephone network provider for the Caller ID to display on this telephone.

- If the caller's number does not exactly match what you have entered in your phone book, including the STD code and any prefixes, the phone book cannot match the name to the Caller ID. Check the phone book to make sure the full number is stored there in the correct sequence.
- Is the battery fully charged? If not, try recharging or replacing the battery.
- Make sure the base unit is connected to a non-switched AC outlet.
- Disconnect the base unit from the plug and plug it in again.

Caller ID error message

The phone displays this message if it detects anything other than valid Caller ID information during the silent period after the first ring.

- This message indicates either the presence of noise on the line, or that an invalid message has been sent from the telephone company.

REMOTE SENSOR

Cannot find remote sensor

Check the sensor batteries, channel number and location.

- Make sure the sensor low battery icon isn't being displayed. Make sure the sensor is within range of the base unit. Press **RESET** on sensor to initiate a sensor search or press and hold **TEMP** on the base unit to search for sensors.

"HI" shows on display

When the outdoor temperature reaches 40 °C (104 °F) or higher, the base unit will display "HI".

"LO" shows on display

When the outdoor temperature falls below -20 °C, the base unit will display "LO".

CAUSES OF POOR RECEPTION

- Aluminum siding
- Foil backing on insulation

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- Heating ducts and other metal construction shielding radio signals
- You are too close to appliances, such as microwaves, stoves or computers
- Atmospheric conditions, such as strong storms
- Base unit is installed in the basement or lower floor of the house
- Base unit is plugged into an AC outlet with other electronic devices
- Baby monitor is using the same frequency.
- Handset battery is low
- You are out of the base unit's transmission range

MAINTENANCE AND CARE

This product is designed to give you years of service if handled properly. Please observe the following guidelines:

- Avoid putting the phone near heating appliances and devices that generate electrical noise, such as motors or fluorescent lamps.
- Do not expose your telephone to direct sunlight or moisture.
- Do not tamper with the internal components.
- Do not mix new and old batteries, or batteries of different types.
- Avoid dropping the phone and other rough treatment.
- Clean the phone with a soft cloth, but never use a strong cleaning agent or abrasive powder. This will damage the finish.
- Remove the batteries if storing this product for a long period of time.
- Periodically clean the charge contacts on the handset and base unit with a clean pencil eraser.
- Do not make any changes or modifications to this product.
- Retain the original packaging in case you need to ship the phone at a later date.

MAXIMIZE BATTERY PERFORMANCE

The freedom that your cordless telephone can offer is fully dependent on the performance of the rechargeable battery in the handset. To maximize the battery performance, follow these guidelines:

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Charge it for a full 15 continuous hours

- Before initial use of your new battery, charge it for 15 continuous hours. The proper initial charging is very important to maximize the battery performance.

Keep the contacts clean

- You can never fully recharge the battery if the contacts are dirty. Clean all the contacts (two at the bottom of handset and two in the base cradle) periodically using a pencil eraser.

Do not replace the handset in the base unit cradle after each call

- Repeated short charging creates a "memory effect" in the battery. Once a rechargeable battery acquires this "short memory", it sends a "CHARGE BATTERY" signal even when it is almost fully charged. The battery then needs to be charged frequently. *To avoid this, leave the handset away from the cradle until it really needs recharging.*

Refresh battery

- If your battery seems to need recharging more often than usual, it may have lost part of its charging capacity because of premature recharges. To bring back its full capacity, try "refreshing" the battery:
 1. First discharge the battery by leaving the handset in TALK mode until the battery low indicator turns on. (Disconnect the base unit from the telephone line, so that your line is not busy all the time).
 2. Then charge it for 15 continuous hours.
 3. Repeat the above once more.

SPECIFICATIONS

Your phone operates on a 2.4GHz ISM digital Worldwide Digital Cordless Telecommunication (WDCT) platform technology. This product uses 75 regular channels plus 14 channels for substitution when the environment is interfered.

Here are the specifications for 2.4GHz Digital Cordless Telephone:



TYPE	DESCRIPTION
Standard	Worldwide Digital Cordless Telecommunication (WDCT)
Frequency range	2.4GHz ISM
Channel bandwidth	0.824MHz
Modulation	GFSK
Speech coding	Adaptive Differential Pulse Code Modulation (ADPCM)
Communication range	Up to 300 meters in open space
Base power supply (Base adaptor: PI-41-735US)	Input 120V / 60Hz Output -AC: 9V 200mA -DC: 9V 400mA
Handset charger power supply (Handset charger adaptor: A10920(T))	Input 120V / 60Hz Output -DC: 9V 200mA
Handset power supply	1 pack of rechargeable batteries (NiMH 750mAh)
Handset battery charging time	15 hours (approx.)
Operating time	Standby: 5 days (approx.)
	Talk: 7 hours (approx.)
Operating temperature	0°C to 45°C
Storage temperature (outdoor)	-20°C to 60°C
Storage temperature (indoor)	-5°C to 50°C
Humidity range	25% to 90%

NOTE: The technical specifications for this product and the contents of the user guide are subject to change without notice.

ABOUT OREGON SCIENTIFIC

Visit our website (www.oregonscientific.com) to learn more about Oregon Scientific products such as digital cameras; MP3 players; children's electronic learning products and games; projection clocks; health and fitness gear; weather stations;

and digital and conference phones. The website also includes contact information for our customer care department in case you need to reach us, as well as frequently asked questions and customer downloads.

We hope you will find all the information you need on our website, however if you'd like to contact the Oregon Scientific Customer Care department directly, please visit:

www2.oregonscientific.com/service/support

OR

Call 949-608-2848 in the US.

For international enquiries, please visit:

<http://www2.oregonscientific.com/about/international/default.asp>

FCC STATEMENT

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, and (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: To maintain compliance with the FCC's RF exposure guidelines place the base unit at least 20cm from nearby persons.

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

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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 into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

CONSUMER INFORMATION

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: KT5W400BTW339. If requested, this number must be provided to the telephone company.

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.

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: KT5W400BTW339. The digits represented by 0.0B 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.]

If this equipment TW339 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.

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.

Should you experience trouble with this equipment, please contact Oregon Scientific www2.oregonscientific.com/service/support or call 949-608-2848 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.

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

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

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.

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 arrester is recommended.



DECLARATION OF CONFORMITY

"Hereby, Oregon Scientific declares that this 2.4GHz Digital Cordless Telephone with Caller ID and Indoor/Outdoor Temperature (Model #TW339/TW339H), is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service."

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