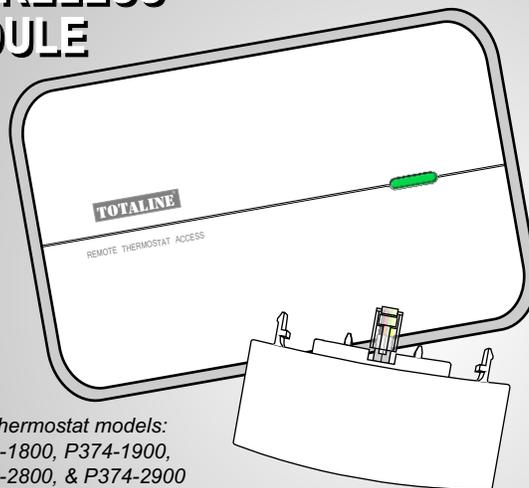


**OWNER'S  
MANUAL**

**COMFORT  
CALL SYSTEM  
P/N P374-0433**

# COMFORT CALL

**BASE STATION  
& RF WIRELESS  
MODULE**



*Compatible with thermostat models:  
P374-1700, P374-1800, P374-1900,  
P374-2700, P374-2800, & P374-2900  
for a complete list contact RCD*

*Complete Control from*

**TOTALINE<sup>®</sup>**

Replacement Components Division © Carrier Corporation 11/06

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*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.*



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**P/N P374-0433**

Page 1



## Overview

Comfort Call allows you to call and ‘talk’ to your compatible thermostat. Monitoring and controlling your thermostat is now simple and easy from any phone, from anywhere.

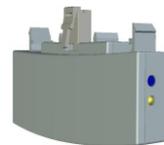
Comfort Call employs the latest in voice recognition and synthesis technology. It can tell you the indoor temperature of your home and the outdoor temperature, provided there is a working outdoor sensor connected to the thermostat. Once on the phone with your system, you may tell your thermostat to change to your preset ‘Comfort Settings’ or go into your preset ‘unoccupied’, Energy Savings Settings (*page 15*).

Comfort Call consists of two parts: A base station (*page 6*) that connects to the phone line and a RF Wireless Module that plugs into our compatible thermostat (*page 5*).

Once Comfort Call answers, the user will be prompted to enter a Security Access Code. This code is preset to 1111. The user/installer may change this code to any four digit number, if desired (*page 13*).

Some homes may have more than one thermostat. If there is more than one thermostat, Comfort Call will have a menu option to access up to four different thermostats (*page 16*).

As an added feature, some of our compatible thermostat models allow for the remote control of an auxiliary output on the thermostat. This auxiliary output may be accessed and controlled from Comfort Call as well (*page 17*). An example of the use of this auxiliary output: The output is connected to a pilot relay to turn on or off the outdoor lighting.



## Overview continued

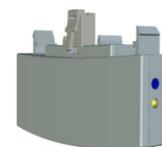
Comfort Call requires an analog telephone line. If this system is installed at a primary residence, then the ring selector on the base station should be set to pick up the line after seven rings (*page 10*). With this setting, Comfort Call will not answer before an occupant is likely to pick up the phone.

If an answering machine or fax machine is connected to Comfort Call, then the answering/fax machine should be set to pick up before Comfort Call (the ring selector is set to seven rings). In the case of a connected answering machine, after the tone to leave a message is heard, the user enters the Comfort Call security code. Comfort Call will release the answering machine from the line and control of the thermostat is now possible.

In the case of a fax machine, after the 'handshake' tones are heard, there are moments of silence; during this silent period the Comfort Call security code should be entered. Comfort Call will release the fax machine from the line and control of the thermostat will be possible.

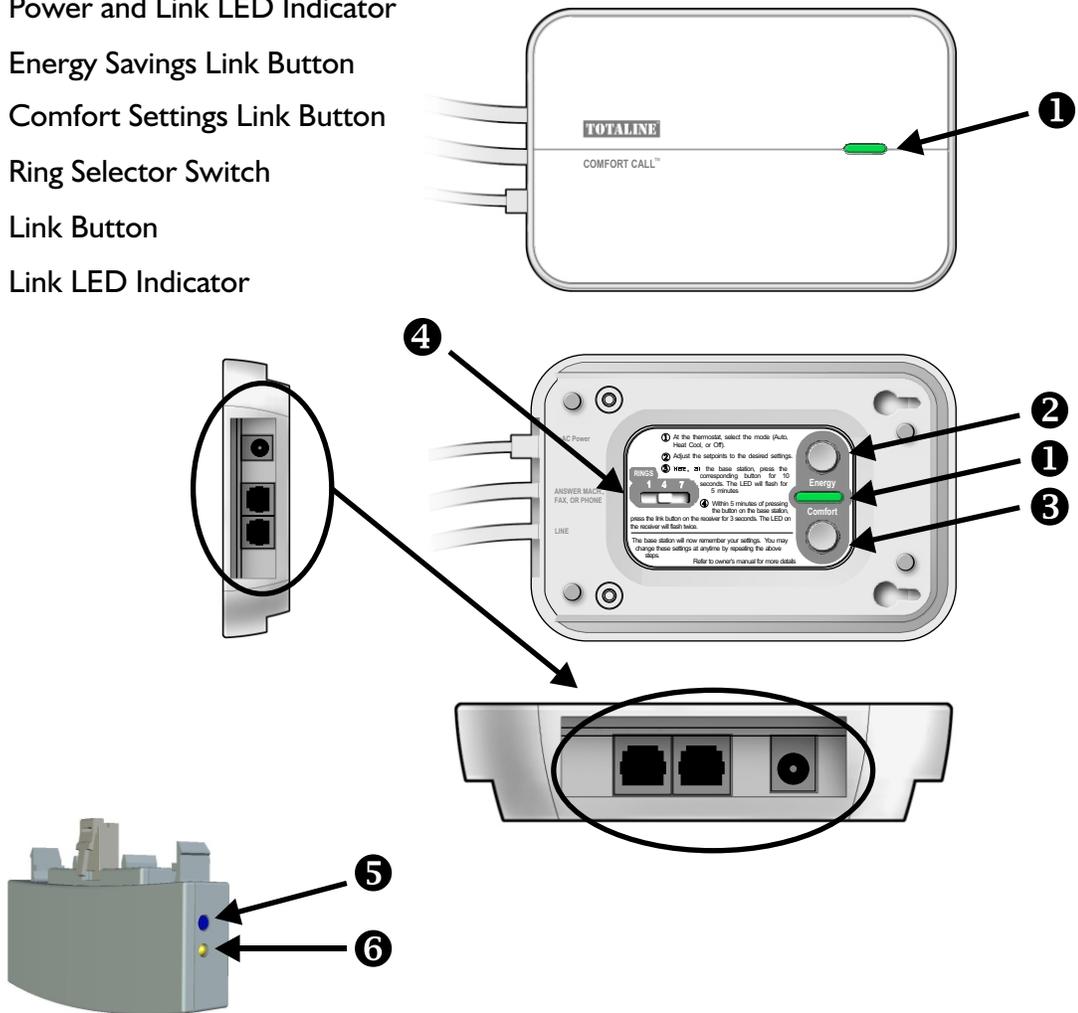
Please note that some phone services provide a 'voicemail' answering service. These services release the home phone line after a preset number of rings and transfer the call to an internal voicemail system. Comfort Call is not compatible with this type of voicemail system.

Comfort Call is a solution for people who do not have the same occupied patterns every day for their homes. It is also a convenient way to call ahead to make sure the primary or vacation home is comfortable upon arrival.



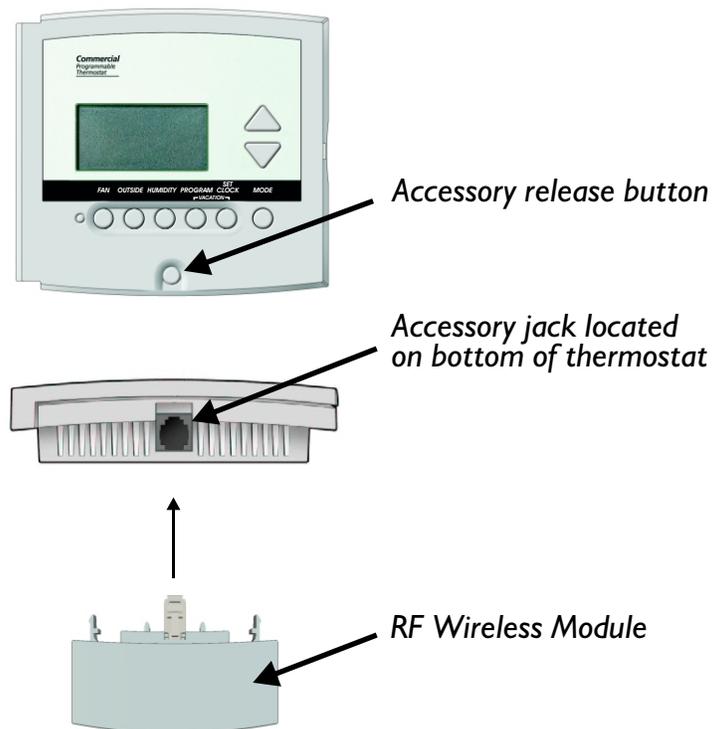
## Location of Controls, Indicators & Connections

- 1 Power and Link LED Indicator
- 2 Energy Savings Link Button
- 3 Comfort Settings Link Button
- 4 Ring Selector Switch
- 5 Link Button
- 6 Link LED Indicator



## Installation & Setup

- 1 Connect the RF Wireless Module to the thermostat as shown below.

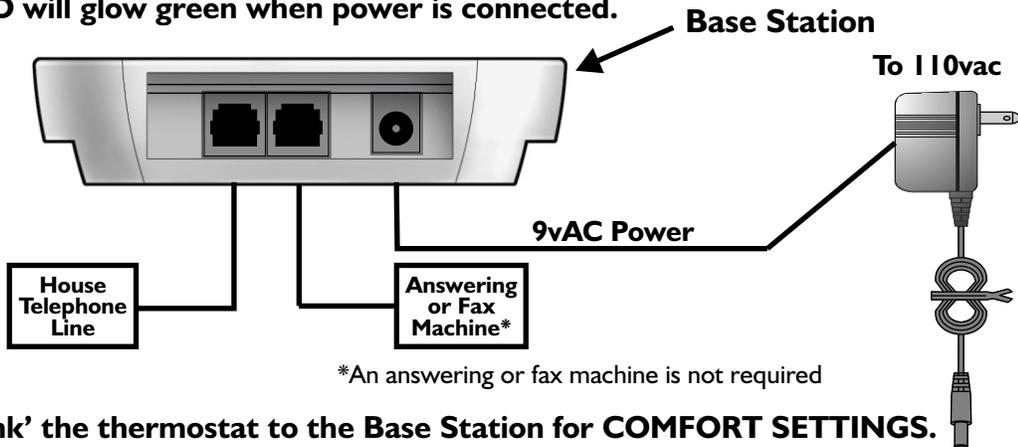


**To connect the RF Wireless Module** to the thermostat, insert the RF Wireless Module plug into the accessory jack of the thermostat. The RF Wireless Module has two tabs that fit into the ventilation slots of the thermostat for added stability.

**To remove the RF Wireless Module** from the thermostat, press and hold the accessory release button while removing the RF Wireless Module from the thermostat's accessory jack.

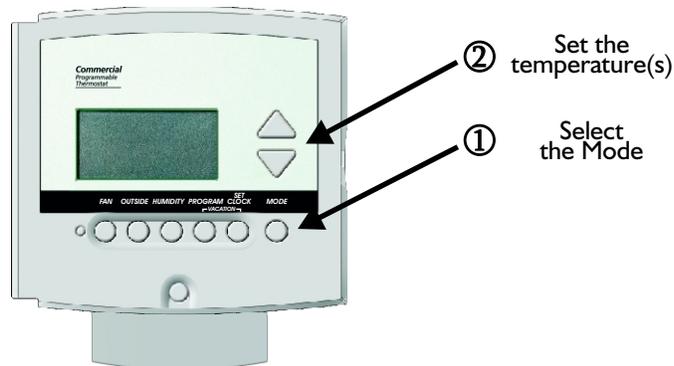
## Installation & Setup

- 2** Connect the telephone line to the Base Station and power Comfort Call with the provided power supply, as shown below. The power indicator LED will glow green when power is connected.



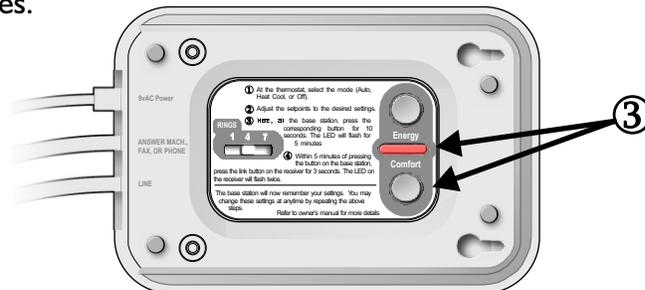
- 3** 'Link' the thermostat to the Base Station for **COMFORT SETTINGS**.

- 1 At the thermostat, select the mode you would like your Comfort Settings to operate in: Auto, Heat, or Cool.
- 2 Adjust the set points to the desired Comfort Settings.



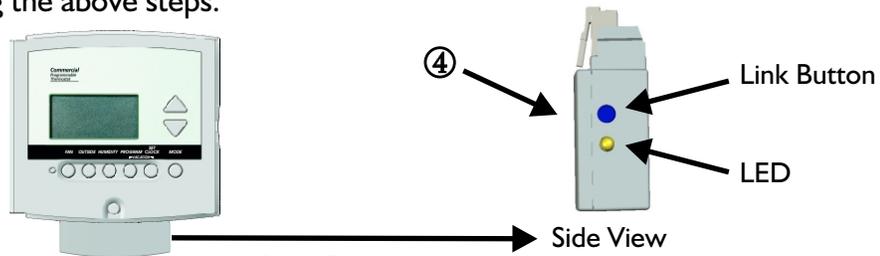
## Installation & Setup

- ③ At the Base Station, press the Comfort Settings link button for five seconds. The green power LED next to the button will turn red and flash for up to five minutes.



- ④ Go to the thermostat, making sure that it is still set to your Comfort Settings. Within five minutes of pressing the link button on the Base Station, press the link button on the side of the RF Wireless Module for three seconds. The LED on the RF Wireless Module will flash indicating the following:
- 2 flashes indicates that the link was successful
  - 5 flashes indicates the communication was good, but the thermostat was not in the appropriate mode; only Auto, Heat and Cool are supported
  - 10 flashes indicates a communication problem

After two flashes on the RF Wireless Module, the Base Station will remember your Comfort Settings. You may change these settings at anytime by repeating the above steps.

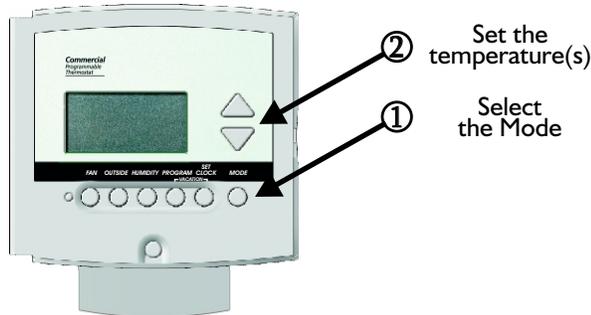


## Installation & Setup

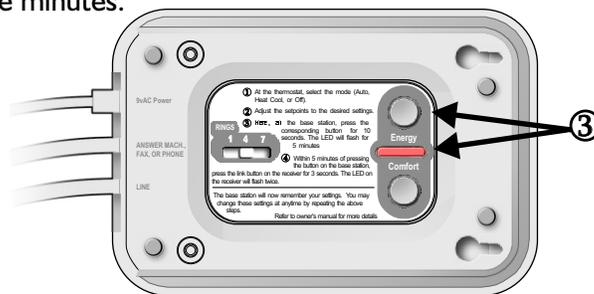
### 4 'Link' the thermostat to the Base Station for ENERGY SAVINGS SETTINGS.

Energy Savings Settings are normally used for unoccupied periods.

- 1 At the thermostat, select the mode you would like your Energy Savings Settings to operate in: Auto, Heat, Cool or Off.
- 2 Adjust the set points to the desired Energy Savings Settings.



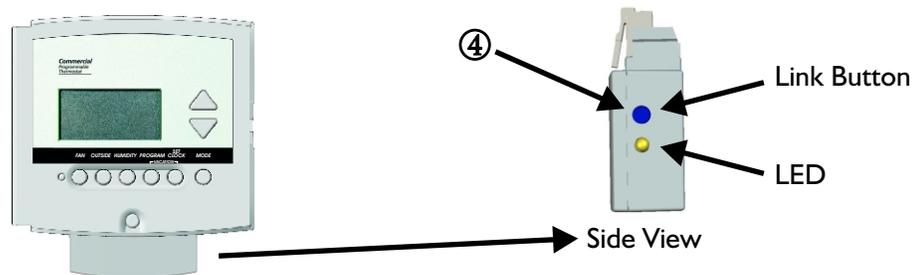
- 3 At the Base Station, press the Energy Savings Settings link button for five seconds. The green power LED next to the button will turn red and flash for up to five minutes.



## Installation & Setup

- ④ Go to the thermostat, making sure that it is still set to your Energy Savings Settings. Within five minutes of pressing the link button on the Base Station, press the link button on the side of the RF Wireless Module for three seconds. The LED on the RF Wireless Module will flash indicating the following:
- 2 flashes indicates that the link was successful
  - 5 flashes indicates the communication was good, but the thermostat was not in the appropriate mode; only Auto, Heat, Cool and Off are supported
  - 10 flashes indicates a communication problem

After two flashes on the RF Wireless Module, the Base Station will remember your Energy Savings Settings. You may change these settings at anytime by repeating the above steps.



### Notes on the linking procedure

- The linking procedure may be cancelled by pressing the Base Station's link button (Comfort or Energy) while its LED is flashing red
- If Comfort Call is accessed by phone, when no thermostats are linked, it will immediately prompt you to exit the system
- To change the Comfort or Energy Savings Settings, simply repeat the link procedure; the new settings will replace the previous settings

## Installation & Setup

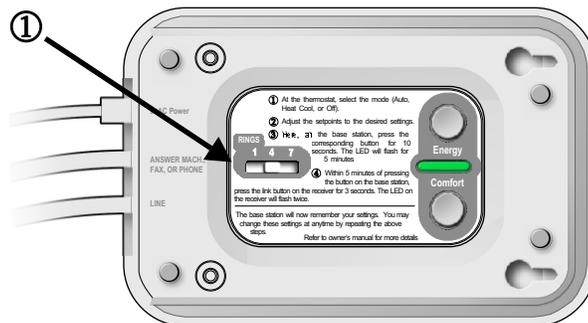
### ④ Set the # of rings before the Base Station will pick up.

- ① Slide the Rings switch to 7 rings if you have an answering machine or fax machine connected. In this setting, the answering/fax machine may answer the call first. If there is no answering machine connected, choose 1, 4, or 7 rings before the Base Station answers the call.

If there is an answering or fax machine in the house, it is highly recommended that these items are connected to the Base Station.

While the answering machine plays your greeting, or after the fax tones stop, you may enter your access code.

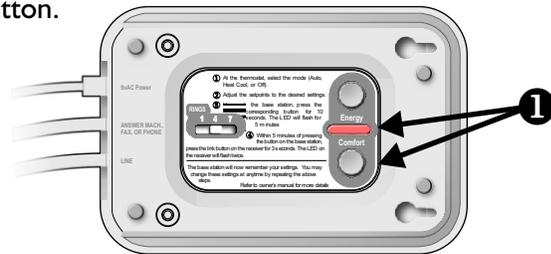
After Comfort Call accepts your security access code, it will bypass the answering or fax machine to control your thermostat.



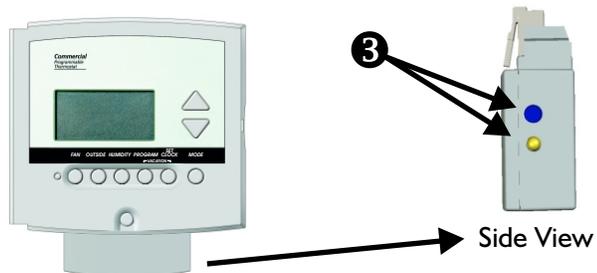
## Installation & Setup

If it becomes necessary to unlink the thermostat(s) from the Base Station, follow these steps:

- 1 Press the desired link button (Comfort or Energy) for five seconds. When the LED begins flashing red, release the link button.



- 2 Press and hold the same desired link button for another five seconds. When the LED begins flashing rapidly, release the link button.
- 3 Press and hold the link button on the RF Wireless Module for three seconds. The RF Wireless Module's flashing LED will indicate the status:
  - 2 flashes indicate the unlink was successful.
  - 10 flashes indicate a communication problem or the RF Wireless Module was not linked to the Base Station.



### Notes on the unlinking procedure

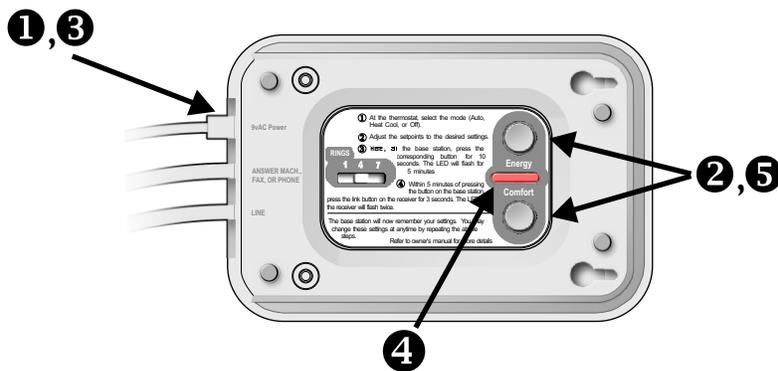
- After the unlinking process is complete, the Base Station's LED stops flashing
- The unlink mode remains active for five minutes
- The unlinking procedure may be cancelled by pressing the Base Station's link button (Comfort or Energy) while its LED is flashing red

## Installation & Setup

If it becomes necessary to reset the link database for any reason (such as relocating the Comfort Call Base Station to a new location with different thermostats) follow these steps to clear its memory of linked thermostats:

- 1 Remove power from the Base Station.
- 2 Press and hold both the Comfort & Energy settings buttons.
- 3 Apply power while continuing to hold the buttons.
- 4 After the reset is complete (about three seconds) the power LED will flash once.
- 5 Release the buttons.

*Note: All linked information is stored in the Base Station, so only the Base Station needs to be reset.*

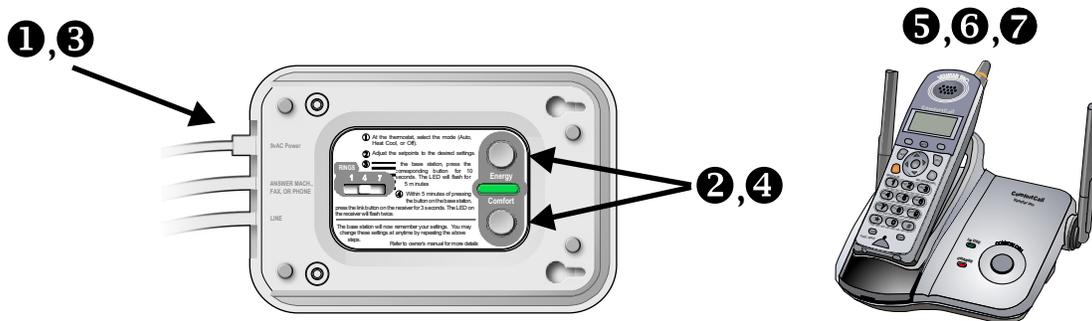


## Resetting the Access Code

Comfort Call is shipped from the factory with the Security Access Code set to 1111. A custom four digit code may be programmed to replace the default code. To set a custom access code follow these steps:

- 1 Remove power from the Base Station.
- 2 Press the Energy button.
- 3 Apply power while continuing to hold the Energy button.
- 4 Release the Energy button.
- 5 Place a call to the Comfort Call Base Station.
- 6 When the Comfort Call prompts for an access code, enter the desired four digit access code.
- 7 After the access code has been entered, Comfort Call will read the new access code back, and disconnect.

*Note: The new access code will be in effect for all future calls. The default Security Access Code may be restored by repeating the above procedure, or by performing the database reset procedure.*



## Operation

- 1 Dial the phone number your Comfort Call system is connected to.
- 2 The Base Station will answer your call after a predetermined number of rings (page 10).
- 3 The greeting will prompt you to enter your Security Access Code. Voice recognition does not work to enter this code, you must use the telephone keypad.
- 4 **Status Report:** After your access code is accepted, the status of the thermostat/equipment will be announced as follows:
  - You are controlling thermostat number 1 (2, 3 or 4)\*
  - The inside temperature is xx degrees
  - The outside temperature is yy degrees\*\*
  - The thermostat is in (Heat, Cool, Auto or Off) **and** (is Idle, the Heat is running or the Cool is running)
  - The auxiliary output is now on/off\*\*\*
- 5 **Main Menu:** The Base Station will give you the following options:
  - For Comfort Settings press 1 or say: *Comfort Settings*
  - For Energy Savings Settings press 2 or say: *Energy Savings*
  - To control the Auxiliary Output, press 3 or say: *Auxiliary Output*\*\*\*
  - To control the next thermostat, press 4 or say: *Next Thermostat*\*
  - To leave your thermostat and hang up, press 9 or say: *Hang Up*
  - To return to the Main Menu, press 0 or say: *Main Menu*

\*This announcement will only occur if more than one thermostat is linked to the Base Station (page 16).

\*\*The outside temperature will only be announced if an outside sensor is connected.

\*\*\*The status of the Auxiliary Output will only be announced if the thermostat has been configured to let Comfort Call control its auxiliary output (page 17).

## Operation continued

### 6 Comfort Call will ask you to confirm your selection:

#### **Comfort Settings:**

Comfort Call will say, “*You have selected ‘Comfort Settings’, is this correct?*”

- To confirm your selection press **1** or say: “Yes” and Comfort Call will say, “*Okay, Comfort Settings are active.*”
- To cancel your selection and return to the Main Menu press **2** or say: “No”\*

#### **Energy Savings:**

Comfort Call will say, “*You have selected ‘Energy Savings’, is this correct?*”

- To confirm your selection press **1** or say: “Yes” and Comfort Call will say, “*Okay, Energy Savings are active.*”
- To cancel your selection and return to the Main Menu press **2** or say: “No”\*

#### **Auxiliary Output\*\*:**

Comfort Call will say, “*The auxiliary output is now (on/off), would you like to turn it (off/on)?*”

- To turn the Auxiliary Output (on/off) press **1** or say: “Yes” and Comfort Call will say, “*The Auxiliary Output will now be turned (on/off), is this correct?*”
- To cancel your selection and return to the Main Menu press **2** or say: “No”\*
- To confirm your selection press **1** or say: “Yes” and Comfort Call will say, “*Okay, the Auxiliary Output is now (on/off).*”

\*The status of the Auxiliary Output will only be announced if the thermostat has been configured to let Comfort Call control its Auxiliary Output (*page 17*)

\*\*If “No” is selected, Comfort Call will ‘beep’ prompting you to make another selection.

#### **Notes on the phone system**

- Comfort Call will not accept voice commands until the user is prompted with a ‘beep.’
- Comfort will accept button presses from your touchtone phone at any time, even while the system is speaking.

## Link up to 4 Thermostats to 1 Base Station

Comfort Call will allow up to four thermostats to be linked with one Base Station. This can be accomplished with additional RF Wireless Modules (P374-0434) installed at each additional thermostat. The linking procedure for thermostats numbered two through four is the same as described for a single thermostat (*pages 6-9*).

The Base Station will recognize the new thermostats and store them by number, in the order that they are linked to the Base Station.

When more than one thermostat is linked, the main menu will add the prompt, "For the next thermostat, press four, or say next thermostat." Additionally, before the status is given, the thermostat will say, "You are controlling thermostat number 1 (2, 3, or 4)" (*page 14*).

## Control of the Thermostat's Auxiliary Output

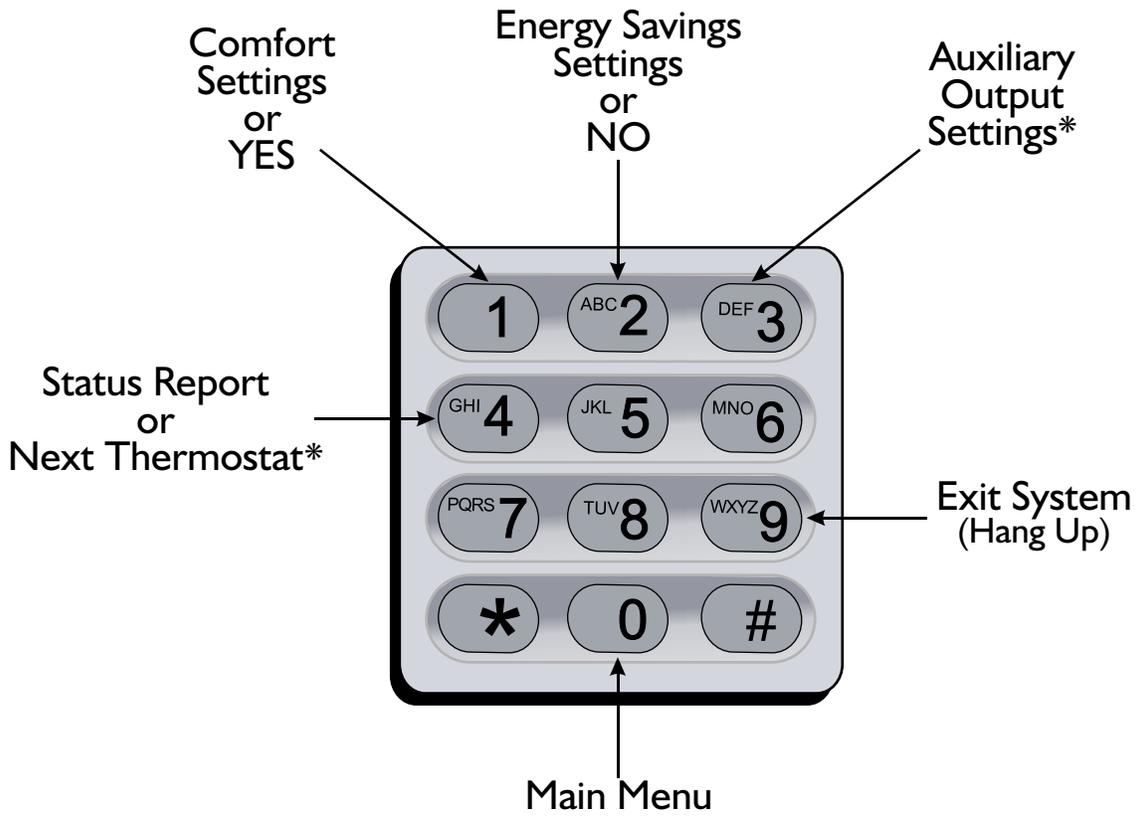
Comfort Call may control the Auxiliary Output of the connected thermostat if that thermostat has an Auxiliary Output and is configured for phone control. When the thermostat is configured to let Comfort Call control its Auxiliary Output, the Base Station will detect this and the main menu will add the prompt, "To control the Auxiliary Output, press **3** or say: *Auxiliary Output*" (page 14).

Additionally, the Auxiliary Output Status will be added to the status report.

After pressing **3** or saying, "Auxiliary Output," the user will be given the Auxiliary Output Status and asked if he/she wants to change it. This will be followed by a confirmation (page 15).

Please consult the thermostat's Owner's Manual for further details on configuring the thermostat for this operation.

# Menu of Touch Tone Keys



\*When applicable

## Warranty

One-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within one year from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the manufacturer's sole option to replace any defective part, will be provided without charge for the part itself provided the defective part is returned to the distributor through a qualified servicing dealer.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOMES VOID UPON REINSTALLATION.

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
5. Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
6. Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
7. Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

P/N 88-488 Rev. 4