



AlphaRefuge™ 2100 Series Area of Refuge and Rescue Assistance system Installation, Use and Wiring Instructions



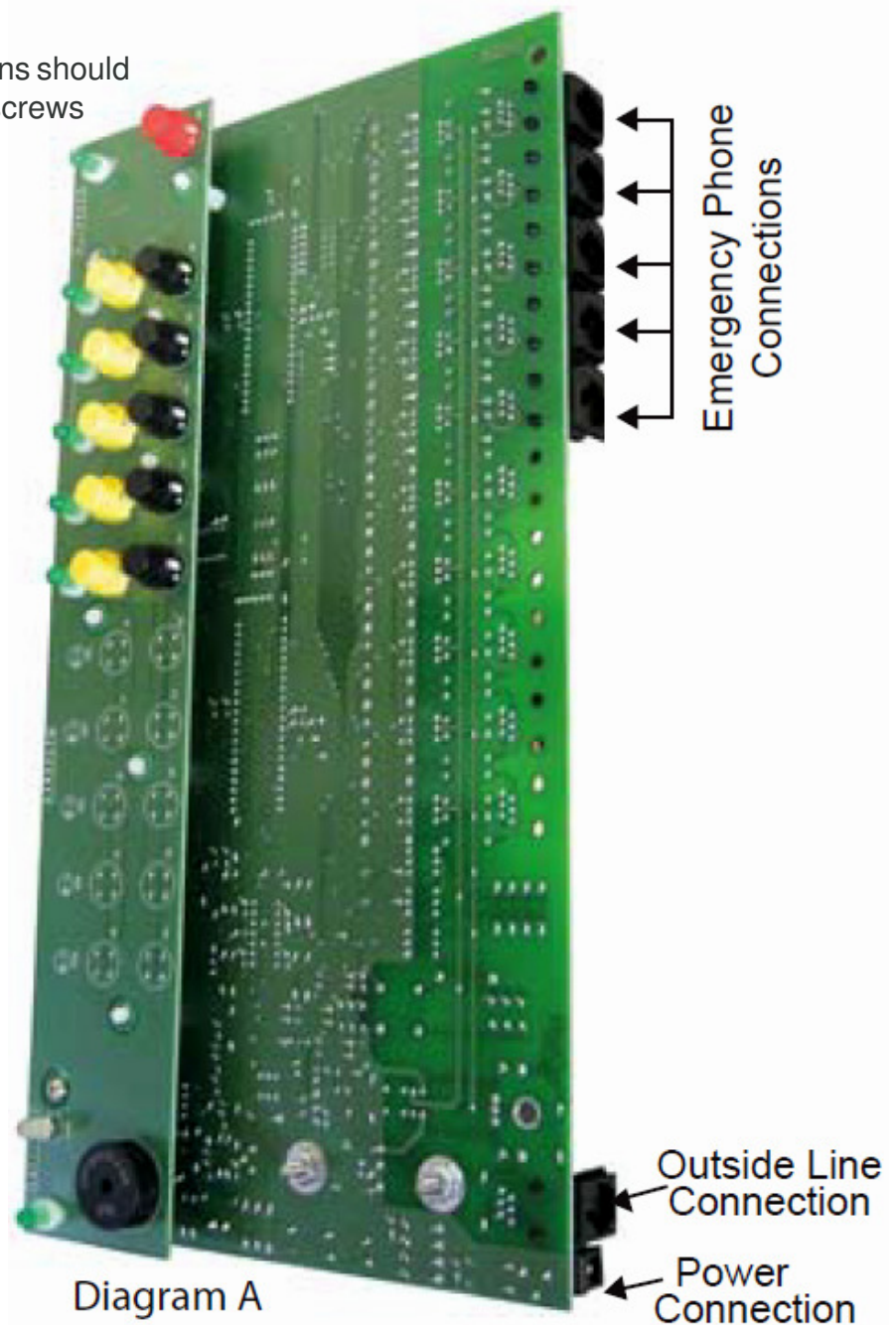
Pre-Installation Requirements:

- 110/120VAC Power
- Analog Telephone Line (POTS, PBX, Or Central Office) with RJ11 connectors. If you are installing on a Voice Over IP (VoIP) phone system, you must obtain from Alpha Communications® or the phone system provider, an Analog Telephone Adaptor (ATA) programmed to provide a disconnect signal (CPC) signal.
- Twisted, shielded, 22 to 24 gauge, 4 wire cabling (CAT 5 rating or greater is preferred) to connect between each Emergency Phone and the AlphaRefuge™ Base Station. RJ11 connectors should be attached for connection to the Base Station. Make sure to maintain wire color polarity from the phone connection to the RJ11 jack at the Base Station. See the Wiring Diagrams on Pages 6 and 7.

NOTE: Terminals and markings shown in this manual may not be in the order in which they appear on the actual equipment. When installing, observe all national and local electrical and building codes.

Installation:

- Remove the front cover from the Base Station and punch out conduit knockouts for analog phone line and Phone cabling runs.
- Mount Base Station to the wall using suitable mounting screws (not included).
- Connect the red backup battery cable to the battery terminal.
- Connect an analog phone line to the RJ11 receptacle located on the lower right of the circuit board (See Diagram A below).
- Attach RJ11 connectors from the phone cabling runs to the appropriate connection on the Base Station. The Phone connections start at the upper right hand side of each circuit board and are numbered on the front cover.
- Shield grounds from the cabling runs should be attached to one of the mounting screws on the housing.
- Mount the front cover on the Base Station.
- Direct wire to a 120VAC source (see instructions on pages 4 and 5).

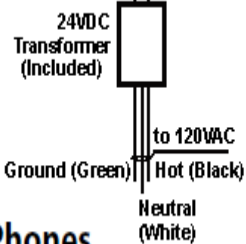
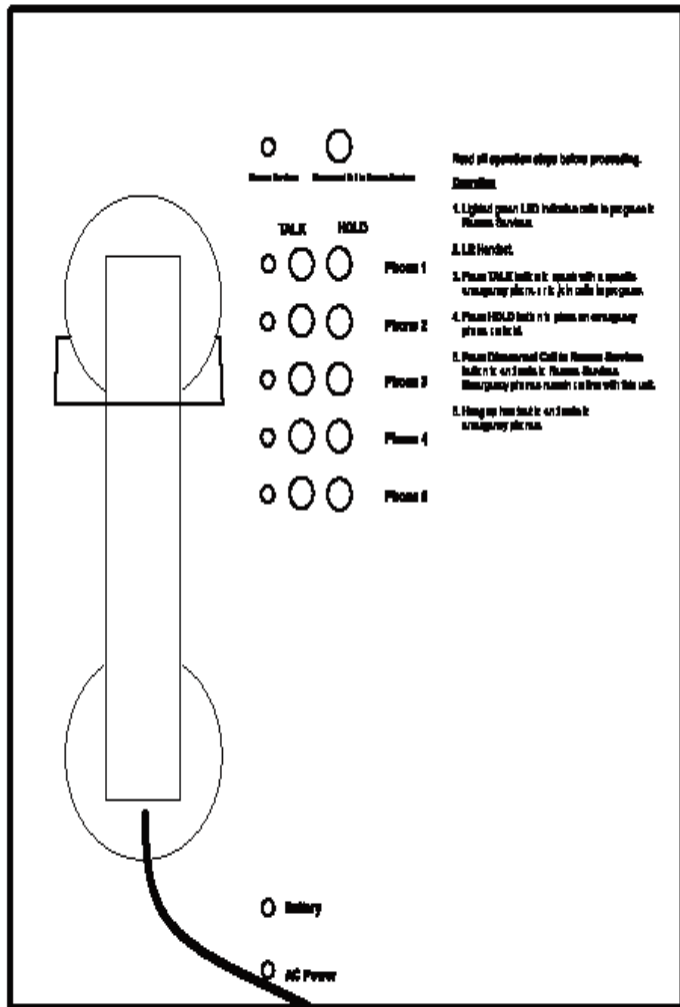


Installation:

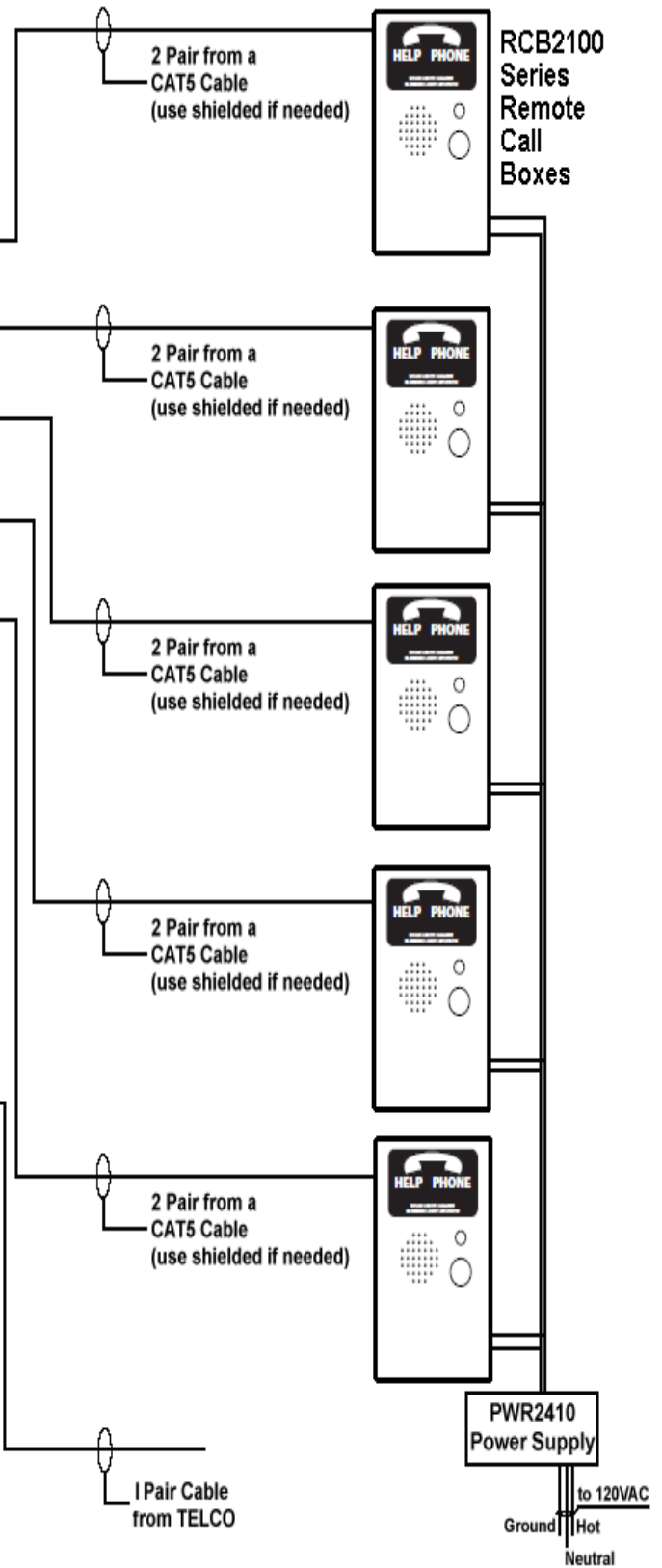
- Connect the hot wire of the 120VAC to the L screw on the power supply
- Connect the neutral wire of the 120VAC to the N screw on the power supply
- Connect the ground wire of the 120VAC to the Ground screw on the power supply
- Connect one lead of the DC power connection to the -V screw and the other to the +V screw (polarity is not important)
- Connect the DC power connection to the AlphaRefuge™ Control Board. The power connection is on the lower right hand side of the board



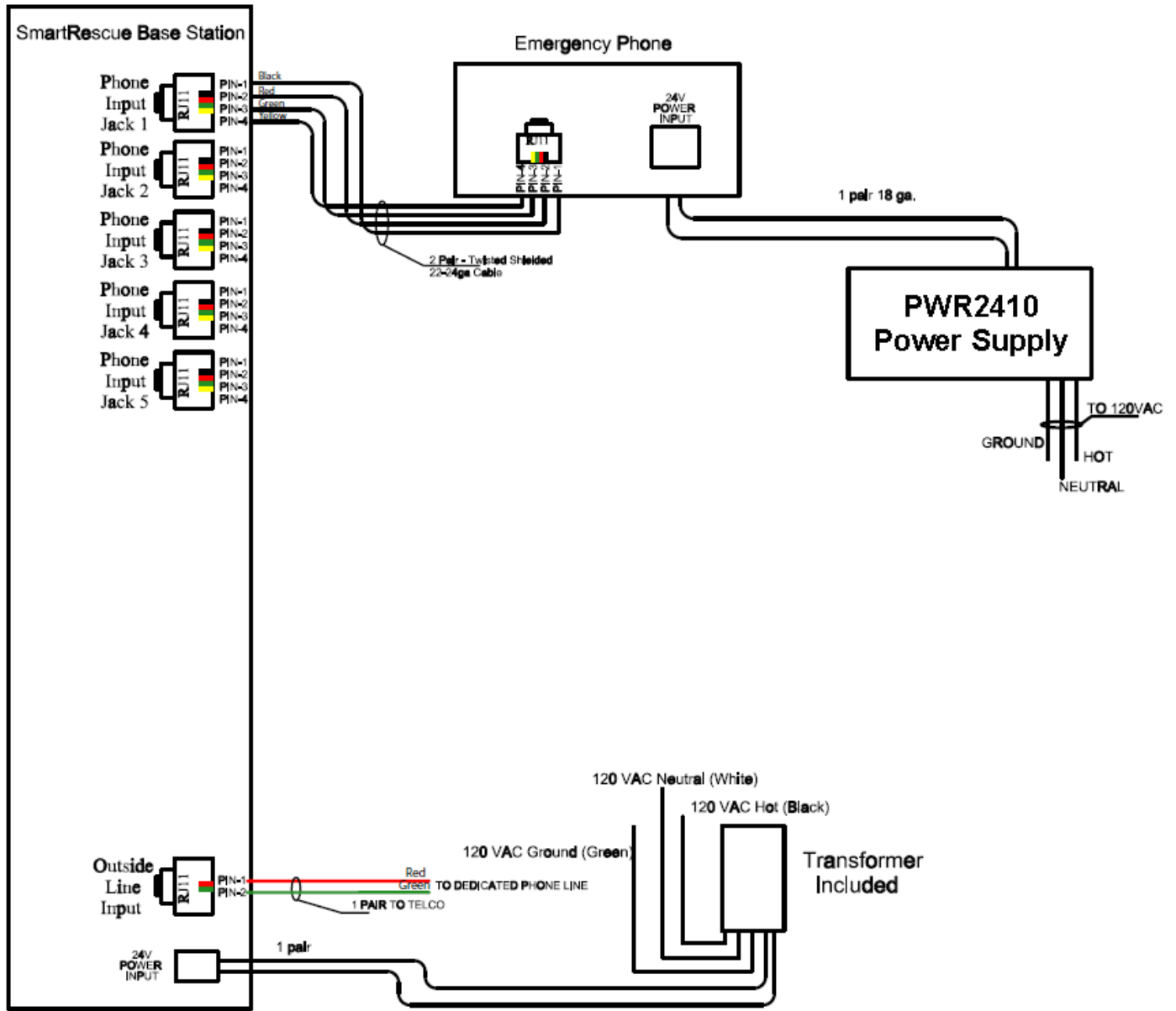
RCC2500 Series Command Center Station (5 station capacity shown)



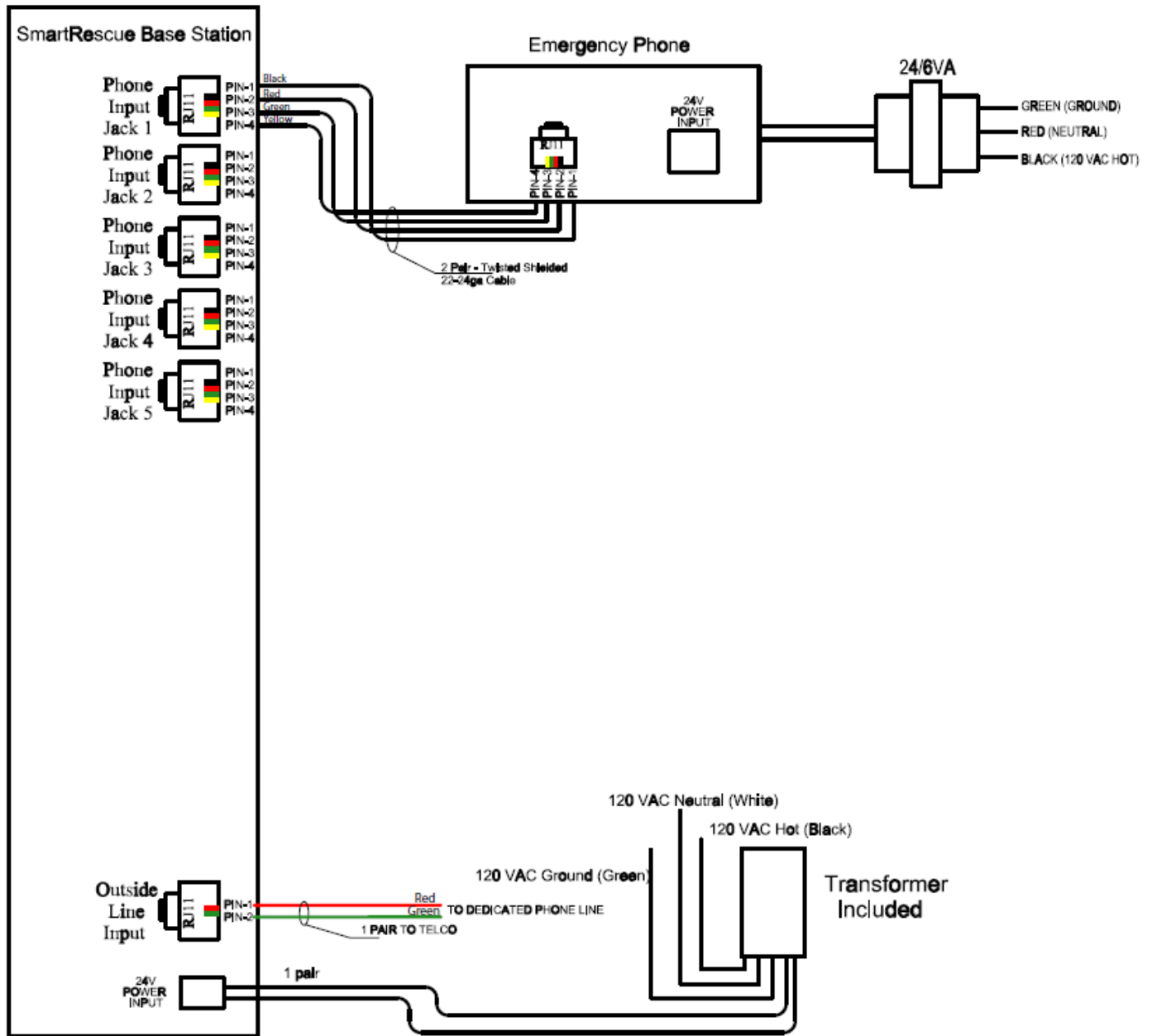
Remote Power to Emergency Phones



AlphaRefuge™ Base Station Typical Wiring Diagram With Remote 24VAC Power to Emergency Phones



AlphaRefuge™ Base Station Typical Wiring Diagram With Direct 120VAC Power to Emergency Phones



Programming Options for Phone(s):

a. To program Emergency Phone(s) in Consolidator mode

1. Programming steps

a. Press **Enter** to get into program mode

b. Press **7, Enter**

c. For Phone(s) 1-5; Press ***, 1-5**

For Example:

For Phone 1, Press 7, Enter, *, 1

For Phone 2, Press 7, Enter, *, 2

d. For Phone(s) 6-10; Press **#, 1-5**

For Example:

For Phone 6, Press 7, Enter, #, 6

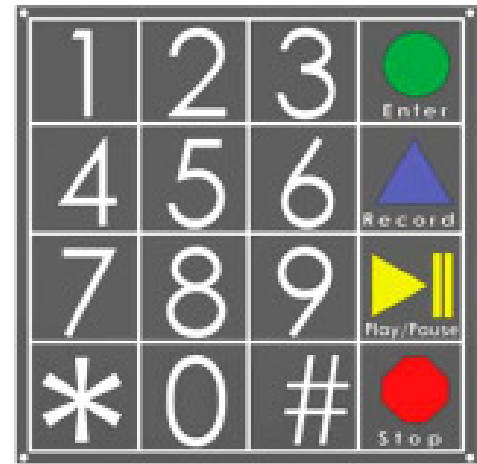
For Phone 7, Press 7, Enter, #, 7

e. Press and hold **Stop** for 2-3 seconds until warble sound to exit programming

f. Confirm operation by calling the phone number Phone(s) are installed on; all phones will answer.

To speak with individual phone(s): (for phone(s) 1-5 press ***1, *2, *3, *4 or *5**)

or (for phone(s) 6-10 press **#1, #2, #3, #4 or #5**) to speak with all phones press ***0**



b. To program Phone(s) to call the AlphaRefuge™ base station unit first and then if no answer to dial secondary emergency numbers

1. Programming steps

a. Press **Enter** to get into program mode

b. Press **1, Enter, 1, Stop**

c. Press **2, Enter, (Phone Number), Stop** (for a secondary emergency phone number) press **3-5, Enter, (Phone Number), Stop** (for each additional emergency phone number)

d. Press **1, 0, Enter, 4, Stop**

e. Press and hold **Stop** for 2-3 seconds until warble sound to exit programming

c. To program Phone(s) to dial standard emergency numbers

1. Programming steps

a. Press **Enter** to get into program mode

b. Press **1, Enter, (Phone Number), Stop**

Press **2-5, Enter, (Phone Number), Stop** (for additional emergency phone numbers)

c. Press and hold **Stop** for 2-3 seconds until warble sound to exit programming

d. To program Location Message

1. Programming steps

a. Press **Enter** to get into program mode

b. To turn on message press **1, 3, Enter, 2** or for no message press **1, 3, Enter, 0**

c. Press **6, Record, (Wait for the Beep, Speak your message), Stop**

(To replay message press **6, Play**)

d. To program frequency of message press **1, 3, Enter, _** (**1**=plays message once; **2**=plays message twice (this is the standard configuration); **3**=plays message until called party presses * on their phone)

e. Press and hold **Stop** for 2-3 seconds until warble sound to exit programming

Operation:

a. Once all connections are made the following LED's should be lit:

- Power LED, located on bottom edge of the faceplate, will be constant lit green
- Battery LED, also located on bottom edge of the faceplate, will be constant lit.
 - Red = Low level charge
 - Yellow = Mid level charge
 - Green = Full Charge

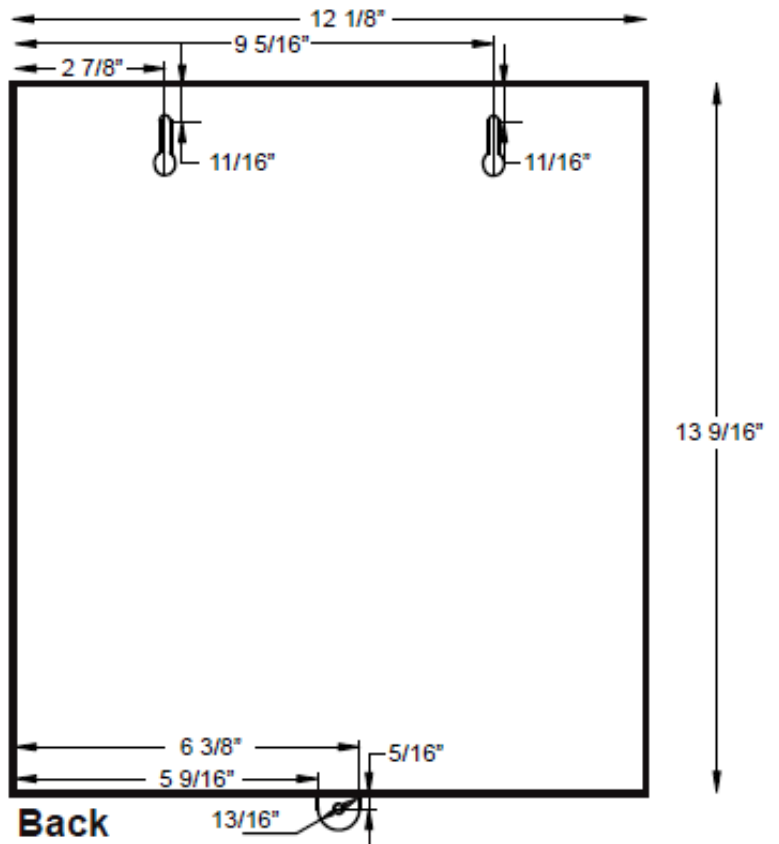
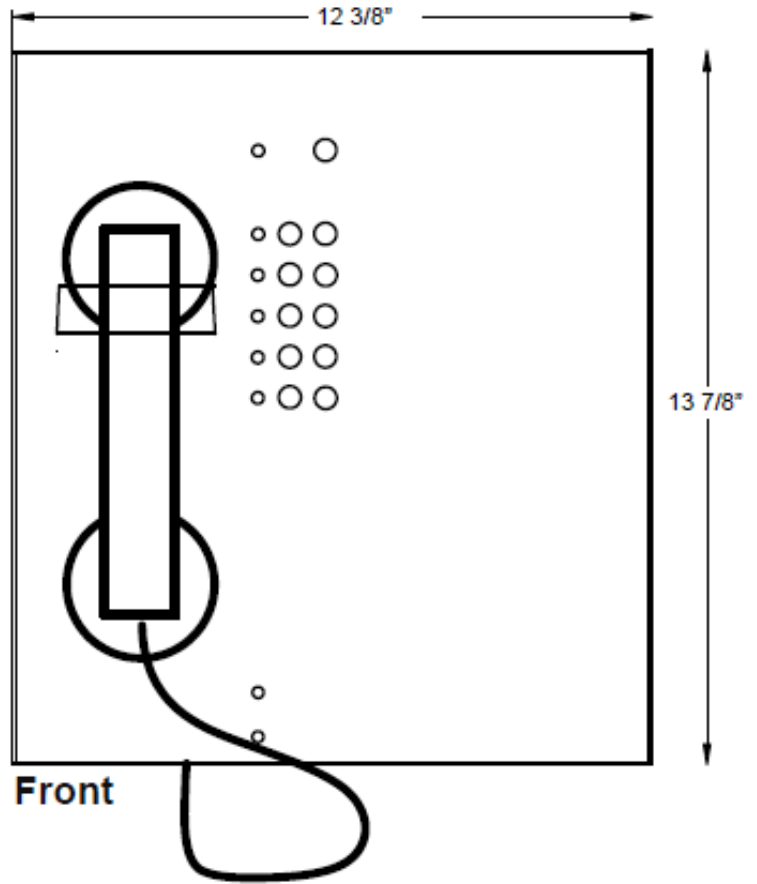
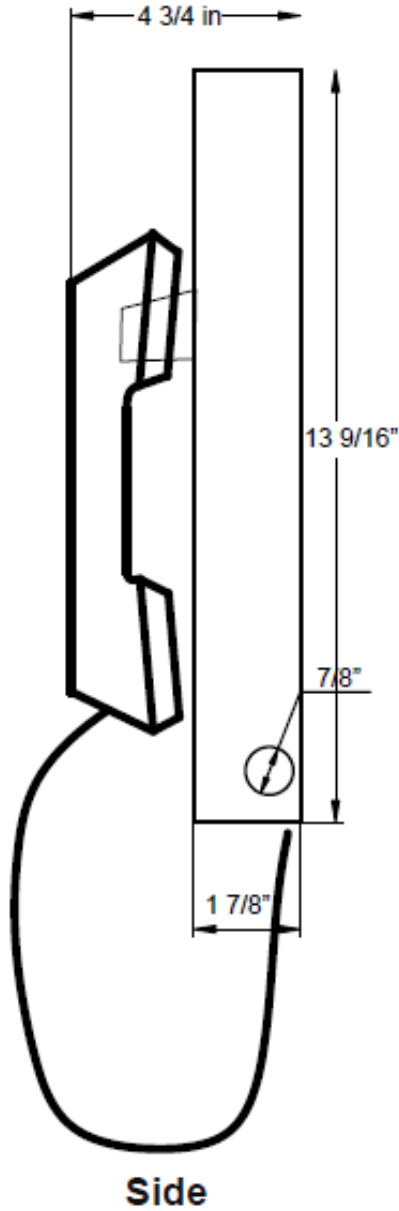
b. Initiate a Call to an Emergency Phone

1. Lift handset on AlphaRefuge™ Base Station
2. Press the yellow Talk button corresponding to the Emergency Phone you wish to call into
3. The green LED will light next to that button
4. You should have two way communication to that Phone
5. You can place the Phone on hold the pressing the black Hold button
6. To resume communication press the Talk button again

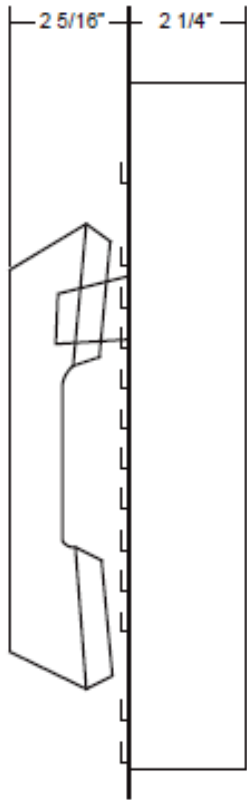
c. An Emergency Phone is Activated

1. You will hear an alternating audible tone at the Base Station indicating a call has been initiated by one of the Phones
2. Depending on the Emergency Phone activated, the corresponding green LED, will light on the Base Station
3. The Rescue Services LED, located on the upper edge of the face place, will also be lit indicating that the outside line is active
4. Lift the handset on the Base Station to join the conversation. If the Phones were programmed to call the Base Station, after you lift the handset you must press the Rescue Services button to disconnect the outside line. If the Phones were programmed to dial the standard numbers, follow the directions listed below
5. To talk to Rescue Services only, place the Phone on hold by pressing the corresponding Hold button. To bring them back into the conversation, press the Talk button
6. To disconnect Rescue Services, press the red button at the top edge of the face plate. The Rescue Services LED will go off and leave you communicating with the Phones only
7. If you wish to leave Rescue Services speaking with the Phones, just return the handset to the cradle.

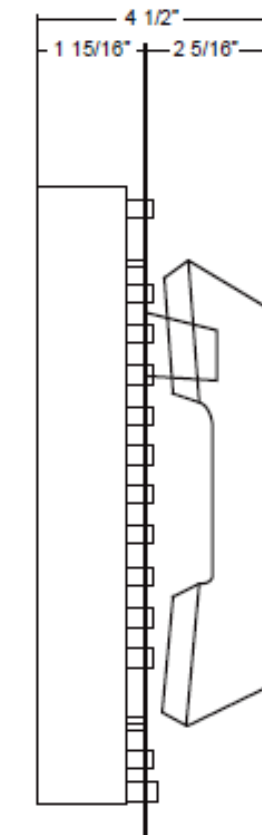
**AlphaRefuge™
Base Station
Mounting Dimensions
(Standard Surface
Mount)**



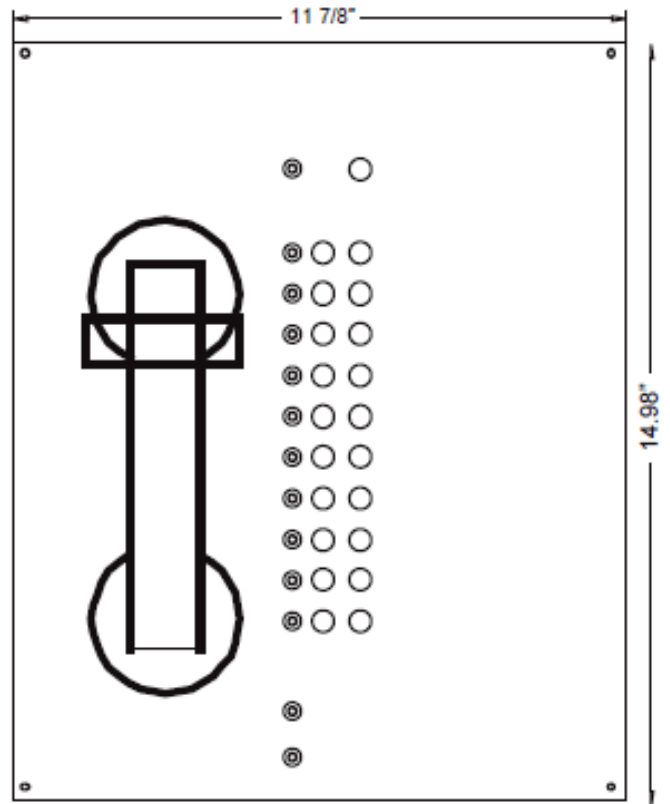
**AlphaRefuge™
Base Station
Mounting Dimensions
(Standard Flush Mount)**



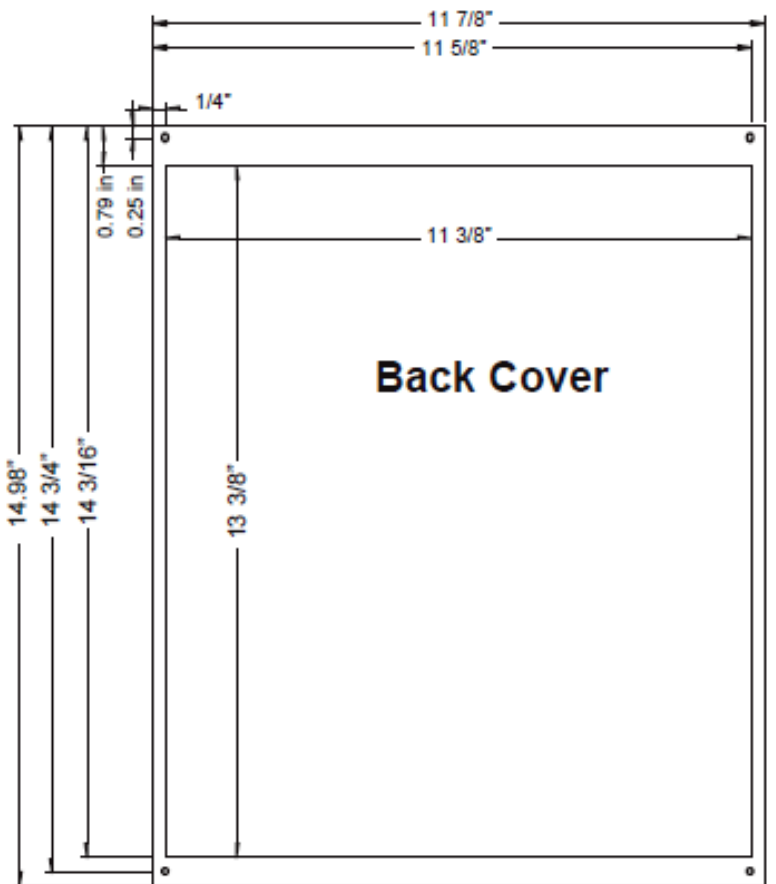
**Optional
Back Box**



Side

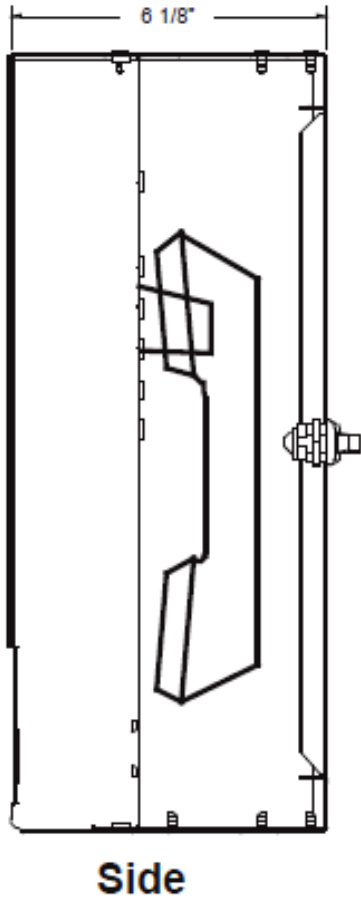


Front

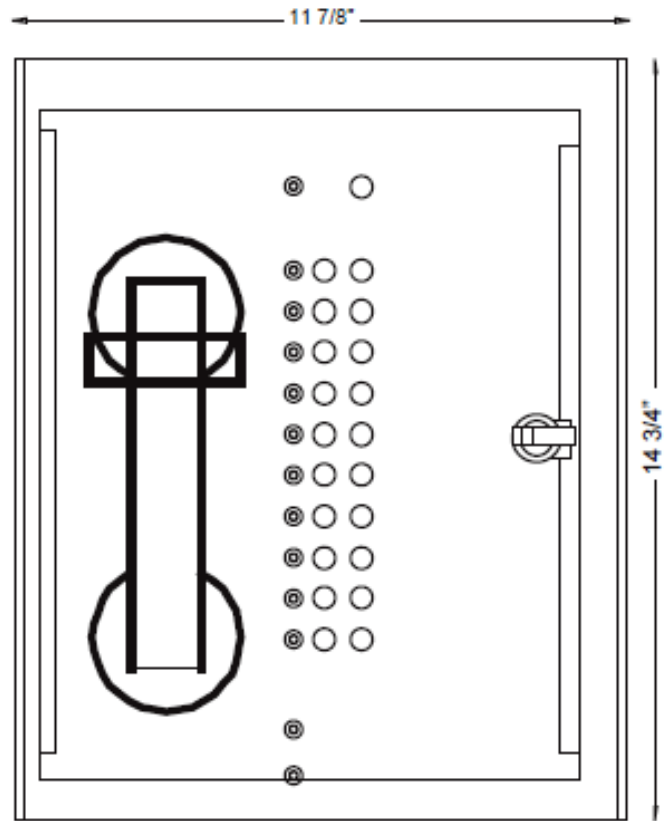


Back

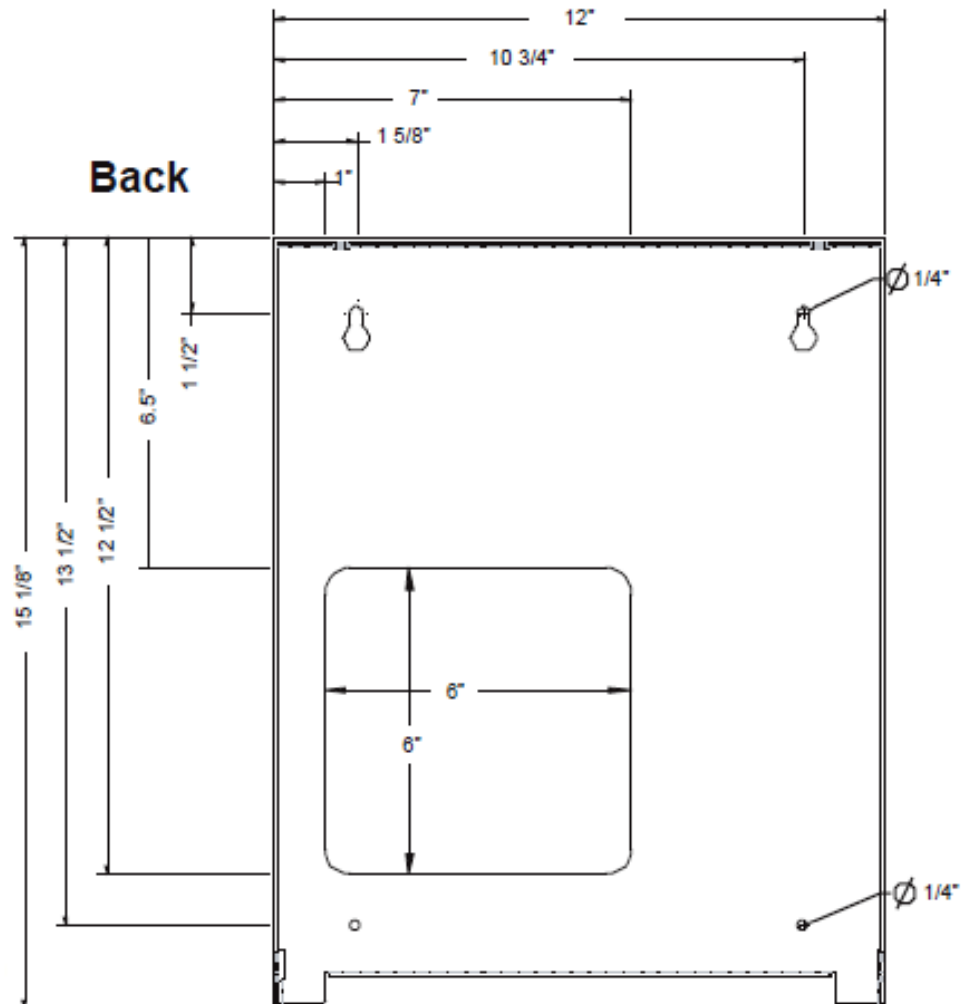
AlphaRefuge™ Base Station Mounting Dimensions (Surface Mount Cabinet)



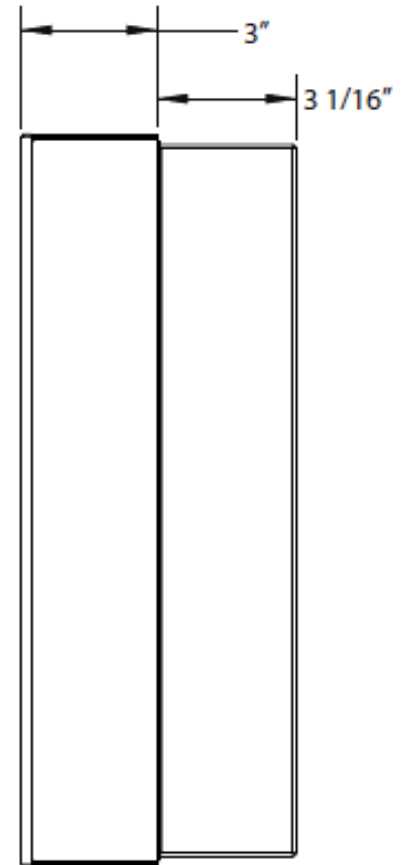
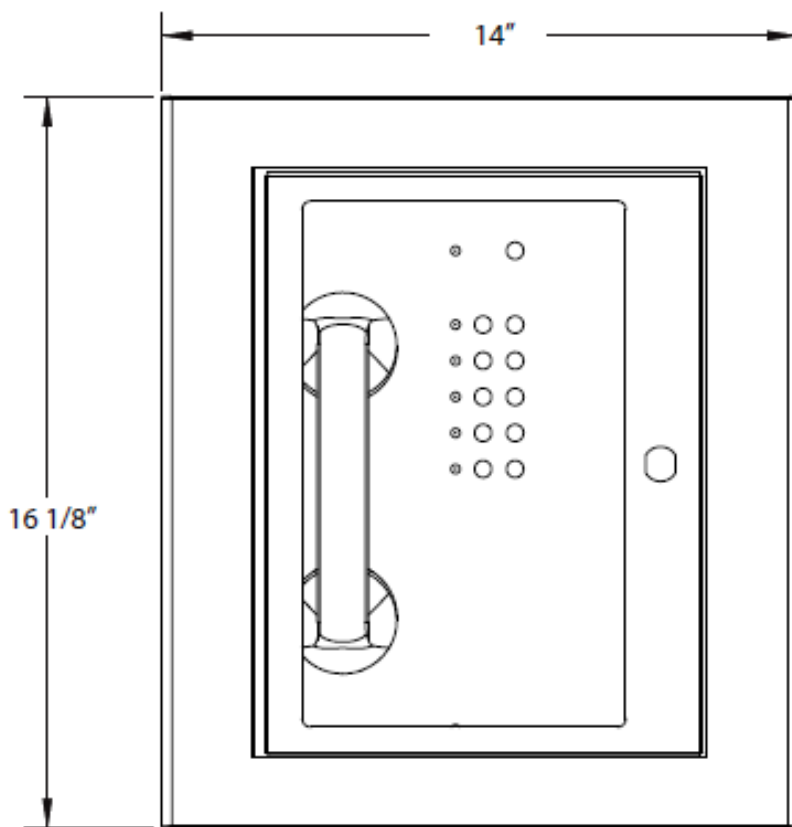
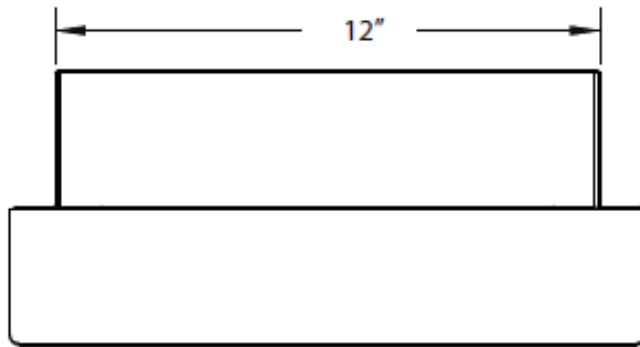
Front



Back



AlphaRefuge™
Base Station
Mounting Dimensions
(Flush Mount Cabinet)



Troubleshooting

<u>Problem</u>	<u>Possible Cause & Fixes</u>
Power LED is not illuminated:	<ul style="list-style-type: none"> • Check to make sure the transformer is connected to a good 120vac power source. If 24 vac/vdc powered, check the power source. • Make sure power connection on the circuit board is secure
Battery LED is not illuminated:	<ul style="list-style-type: none"> • Battery plug is not connected to circuit board • Check wire connections on battery
No dial tone:	<ul style="list-style-type: none"> • Analog phone line or Voice Over IP (VoIP) with proper ATA is not connected • Phone line is either not active or not providing adequate voltage of 24v to 48v DC
Talk or Hold LED's will not illuminate after buttons are pressed:	<ul style="list-style-type: none"> • Twisted, shielded, 22 to 24 gauge, 4 wire runs are not connected to phone(s)
LED's periodically blink:	<ul style="list-style-type: none"> • Noise on phone line. Check shield ground at the Base Station. Make sure you ran twisted, shielded, 22 to 24 gauge, 4 wire sets (CAT5 or better) from each phone
Constant audible tone:	<ul style="list-style-type: none"> • Handset is off hook
Volume low on handset:	<ul style="list-style-type: none"> • Adjust volume control on under side of handset
Phone(s) dial through but there is no communication between Base Station and Phone(s):	<ul style="list-style-type: none"> • Check to be sure proper colored wire is connected between pins 1-4 on the RJ11 jacks both at the Phone and Base Station

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