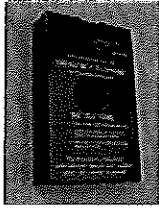


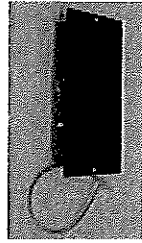
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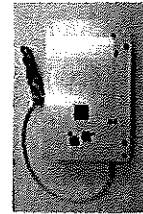
Elevator Phones



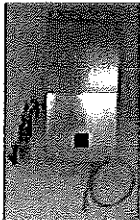
Black Box Phone
[Click Here](#)



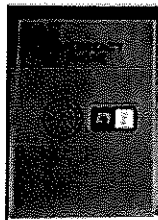
Sub-Mount (2 Stud)
[Click Here](#)



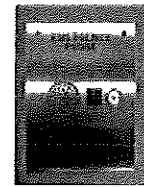
Sub Mount, OEM Replacement
[Click Here](#)



Sub-Mount (4 stud)
[Click Here](#)



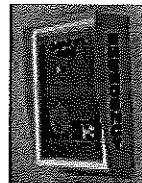
Flush Mount Stainless
[Click Here](#)



Flush Mount Stainless, Vandal Button
[Click Here](#)



Red Box, Stainless Plate
[Click Here](#)



Yellow Box, Stainless Plate
[Click Here](#)



Mini Plate Phone
[Click Here](#)



AS-3 SERIES QUICK PROGRAMMING GUIDE

NOTE: To bypass any programming step and retain its current setting (except password) press (#) – To insert a pause in the emergency number press (*)

1. Call the phone in the elevator from a touch tone phone or a cell phone.
2. Emergency phone answers with a "BEEP"
3. Enter access code (3) (5) (8) (4) (2) (#)
4. Phone acknowledges password accepted with a warbling sound and "BEEP- BEEP- BEEP- BEEP".
5. Enter the **FIRST** emergency number you want the phone to call, then press (#)
 - a. (Example: 5090339# or PBX number 9*5090339#)
6. Phone acknowledges first number accepted "BEEP-BEEP-BEEP-BEEP-BEEP"
7. Enter **SECOND** emergency number to call, then press (#)
8. Phone acknowledges second number accepted "BEEP-BEEP"
9. Enter system info. (5) (3) (2) (0) (1) (1) (0) (1) (0) (0) [this is factory default setting]
10. Phone indicates data accepted "BEEP-BEEP-BEEP-BEEP-BEEP-BEEP"
11. Press (*) (#) to record emergency location message.
12. Phone indicates ready to begin recording with a high-low "BEEP"
13. Record the message, approximately 12 seconds long
 - a. Sample message: "This is an elevator emergency at 1234 American way in Los Angeles. Please investigate."
 - b. Write your message here:

14. Phone indicates recording complete "BEEP"
15. Phone replays message back to you then "BEEP-BEEP-BEEP-BEEP-BEEP-BEEP"
16. To re-record the message press (*) (#) - Repeat from step (12)
17. To turn off phone, press (#) phone BEEPS high-low-low
18. Press (#)
19. Phone responds with steady tone.
20. Phone disconnects

Installation & Operating Instructions

OLDER VERSION PHONES

AS-3 Version 3.0 Emergency Telephone

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| Connections | Page 6 |
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T.R.E. Communications, Inc. Phone 818-509-0339 Fax 818-753-9820

ELEVATOR TELEPHONE SYSTEM INSTALLATION AND OPERATING INSTRUCTION

FAST SETUP PROGRAMMING:

These instructions allow you to program the phone for basic operation acceptable in many installations.

NOTE: this emergency phone is programmed by dialing it from other touch-tone phone. You must know the phone number of the elevator in order to program the phone. When the emergency phone answers, use the key pad on the phone you are dialing from to enter the programming numbers, (#) and (*) as required. You will program these features:

| | |
|-------------------------|--------------------------------------|
| EMERGENCY PHONE NUMBERS | = ##### (emergency no. To be dialed) |
| AUTO MESSAGE PLAY | = 10 repeat in 1 min. interval |
| TIME OUT | = 2 Min. (phone will shut off) |
| DIAL METHOD | = Tone |
| PAUSE BEFORE DIALING | = 00 |
| AUTO TALK ON RINGS UP | = Yes |
| MUTE DURING DIALING | = No |
| MUTE ANNOUNCEMENT #2 | = No |

PROGRAMMING PROCEDURE:

1. Call the phone in the elevator.
2. Phone answers, "BEEP"
3. Enter access code (3) (5) (8) (4) (2) (#)
4. Phone acknowledges code accepted with four beeps.
5. Enter emergency service number you want the emergency phone to call, then press (#)
6. Phone acknowledges number accepted "BEEP-BEEP"
7. Enter system info. (10) (20) (100) (100)
8. Phone indicates data accepted "BEEP-BEEP- BEEP-BEEP-BEEP-BEEP"
9. Record new message then press (*) (#).
10. Phone indicates ready to begin recording "BEEP"
11. Record the message, approximately 8 seconds long.
12. Phone indicates recording complete "BEEP"
13. Phone replays message back to you; then you will hear six BEEPs
14. To turn off phone, press (#)
15. Phone responds with steady tone.
16. Phone disconnects

FUNCTIONS AND FEATURES:

The phone is a micro-controller-based complete elevator phone system. It provides a wide range of functions that make it adaptable for several applications. It provides the following functions and features:

1. Speakerphone for hands free communications.
2. Programmable single-number dialer from 1 to 16 digits.
3. Programmable 1-sec. Pauses so unit may be used with PBX systems.
4. Programmable tone or pulse dialing.
5. Programmable TIME OUT duration from 0.1 sec. To 9.99 min. (this is an effective anti-nuisance device)
6. Programmable mute while dialing so user does not hear dialing.
7. Momentary switch to activate. Does not require user to keep button depressed.
8. User-record able eight second, digital message for location identification.
9. Message can be retrieved by pressing (*) on touch-tone phone.
10. Programmable message mute prevents user from hearing message, if desired.
11. Remote programming allows system to be reprogrammed from central location.
12. 5 digit access code allows security against unauthorized reprogramming.
13. Auto-answer mode allows emergency operator to call into the elevator.
14. Auto-mute during programming allows phone to be reprogrammed without disturbing anyone in the elevator.
15. Programmable mute on Auto Answer.
16. Nonvolatile memory circuits allows voice message, telephone number and programmed information to be retained without any batteries or power of any kind for up to ten years. This means no batteries to replace.
17. Dual power operation allows the phone to be operated on telephone power alone; in case of weak lines, it can be operated with a 12 volt DC source.
18. Prank calls can be disconnected by pressing the (#) key on a touch-tone phone.
19. Press (1) (#) to make system LED flash and signal persons in the elevator that the call has been received.

PROGRAMMING INSTRUCTIONS:

To program the phone, you must call the unit from a touch-tone telephone. The phone must be the type that produces a continuous tone when a key is held down. Phones using "burst" type dialing will not work. Once the remote access code is entered, the phone will automatically disconnect if it detects 7 seconds without any touch-tone activity. Review the information that needs to be programmed before dialing the phone.

NOTE: to program phones, the LED must be connected. If the phone is being programmed in an office before being installed, connect the red wire to the positive (+) lead and the black to the negative (-) lead of the LED. The LED will light during programming.

- 1) Call the telephone line connected to the phone. The unit will answer and will "BEEP" one time.
- 2) Enter the remote access code (3) (5) (8) (4) (2) (#) on your touch-tone phone. The unit will respond by beeping four times. This confirms that you are in REMOTE PROGRAM mode. This code is preset at the factory.
- 3) Enter the telephone number that you wish the phone to dial. The number can be from 1 to 16 digits. The STAR (*) key acts as a 1 sec. Pause. After entering the number, press the (#) key to signal completion. To enter 509-0339 you should press 5090339#.
- 4) Some telephone systems use a RING DOWN circuit. Ring-down circuits do not require the phone to dial a number. The phone connects to another phone when it is activated. To program the phone so it will not dial, follow steps 1 and 2, and then press (#) instead of entering a number. Step 3 for a ring down system would be (*) (#).

NOTE: If you do not want to change the telephone number, press only the (#) key and the phone will retain the previous number; go to System Information.

- 5) SYSTEM INFORMATION – The unit will "beep" twice to indicate that you are ready to enter the system information. System information is entered as a ten-digit string. If you make a mistake before entering all ten digits, press the (#) key and the unit will let you restart. The default setup is 1020100100 (see below).

| 10 | 20 | 1 | 00 | 1 | 0 | 0 |
|-------------|----------|---------|------------|------------|-----------|---------|
| AUTO | TIMEOUT | Dialing | Pause | Auto Talk | Mute Dial | Mute |
| Message | 00-99 | 0=Pulse | Before | on ring up | 0=No | Message |
| Play | 0 to 9.9 | 1=Tone | Dialing | 0=No | 1=Yes | 0=No |
| 00-99 | Min. | | 00-99 | 1=Yes | | 1=Yes |
| 0 to 9.9min | | | 0-9.9 Sec. | | | |

CONTINUATION...

Once you have entered the ten-digit SYSTEM INFO, the phone will "BEEP" six times. Now you may re-record the announcement, if desired. To record the new message, press (*) (#). The phone will "beep" once, then begin recording.

Your message may be up to 8 seconds long. When the recording is finished, the phone will "beep" six times again. You may re-record the message or press (#) to disconnect.

NOTE:

1. If you do not want to re-record your message, press (#) to disconnect.
2. PAUSE BEFORE DIALING should be set to 0.2 sec.; for PBX systems. To prevent external dialers from making long distance calls, keep the "pause before dialing" short or set" mute dialing to "YES".
3. When the message is set to play automatically, it continually repeats at the programmed interval. To delay message repeat and to allow uninterrupted conversation with the people in the elevator, press any key on the phone periodically before the message plays again. The touch-tone sound resets the message timer. For example, if the AUTO PLAY MESSAGE is programmed for 1min., press a touch-tone key every 45 seconds or so and the message will not play.

CALLING FROM THE PHONE:

When the button is momentarily pressed, the phone will dial the pre-programmed telephone number. If MUTE ON DIALING is enabled, the person in the elevator will not hear the touch-tones.

When someone answers the ringing line, they can talk to the person in the elevator. The pre-recorded message can be played at will by pressing the (*) key. If the AUTO MESSAGE PLAY has been programmed, the message will play automatically at the programmed interval.

DISCONNECTING THE EMERGENCY PHONE:

If a system operator determines that the call is accidental, he can force a disconnect of the system by pressing the (*) key. The system will emit a long steady tone, then disconnect. To signal the person in the elevator that the call has been answered, the system operator may press (1) (#). Causing the LED on the phone to flash.

If the system operator hangs up before signaling the phone to disconnect, the phone will remain in the "OFF HOOK" condition until the programmed TIMEOUT period has elapsed.

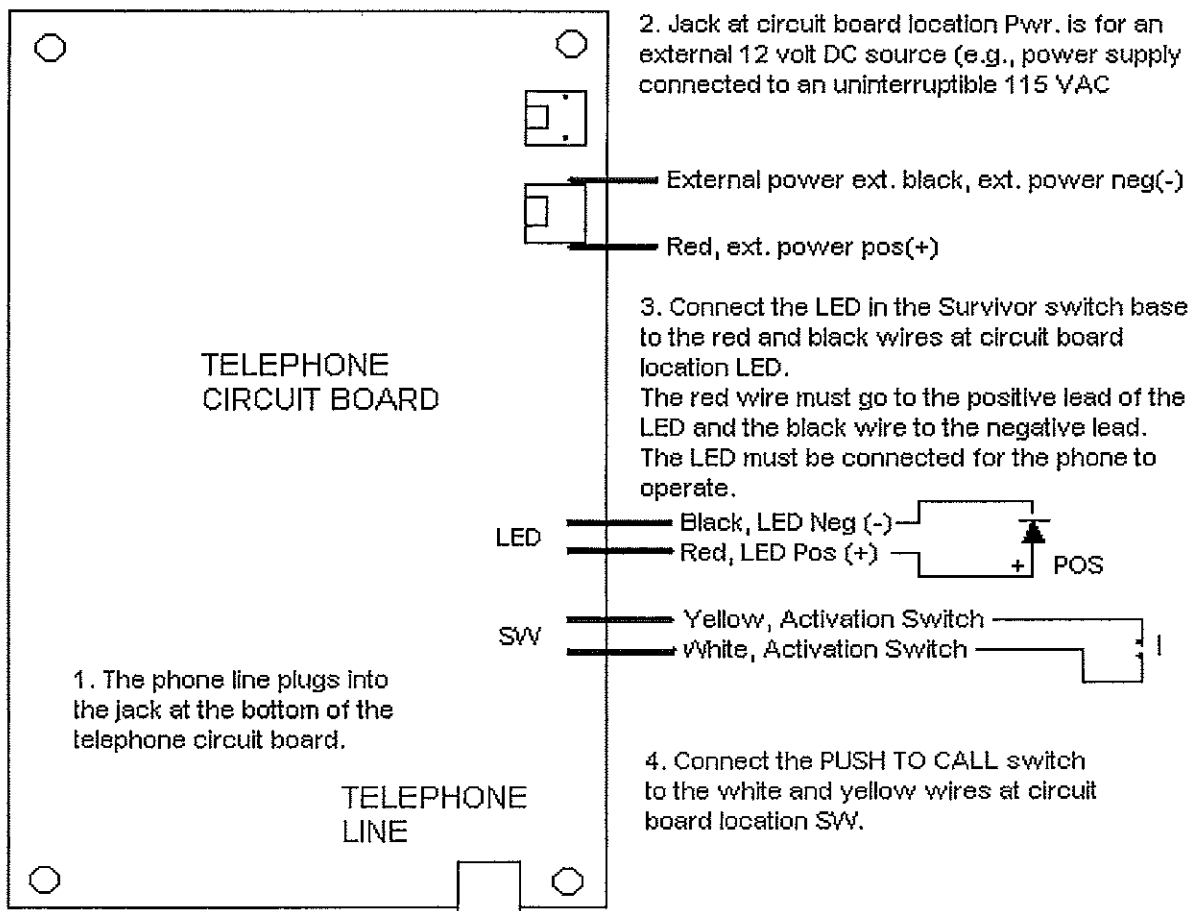
CALLING THE EMERGENCY PHONE:

When the system operator calls the phone, the phone will "beep" one time to confirm that it was answered.

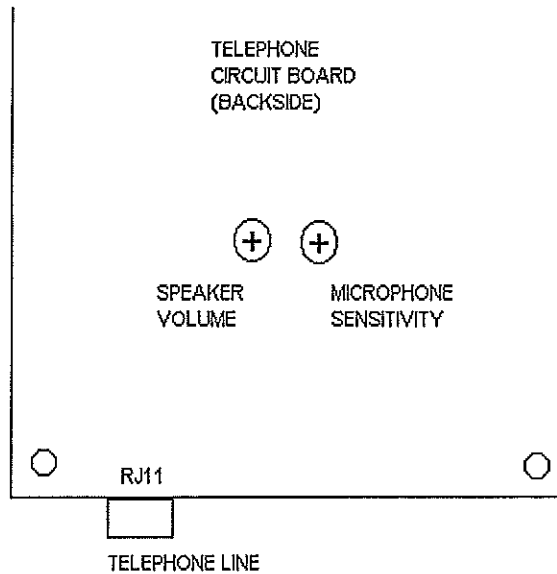
If the AUTO TALK ON RING UP has been set to NO, then the phone will be muted upon answering. If you wish to talk to the party in the elevator, press the (*) key. The message will play only to the system operator, not to the person in the elevator. When the message is finished, the mute will be turned off and you will then be able to talk to the person in the elevator.

If the AUTO TALK ON RING UP has been set to YES, the system operator will be able to talk to the person in the elevator immediately upon answering. The same disconnect features apply to incoming calls by pressing the (#) key.

CONNECTIONS:



ADJUSTMENTS:



1. **SPEAKER VOLUME** is set at factory to the midpoint of its adjustment range. Clockwise rotation increases the volume.
2. **MIRCOPHONE SENSITIVITY** is set at the factory to the midpoint of its adjustment range. Counter-clockwise rotation increases sensitivity.
3. Set the microphone sensitivity so that a person standing anywhere in the elevator can be heard when talking at normal voice level.
4. Adjust the speaker volume so that conversations can be heard any where in the elevator. **If the volume is to load, feedback can occur.** Reduce the speaker volume to eliminate feedback.

**FOR TECHNICAL SUPPORT CALL
1-818-509-0339**

Vandal Proof Products

T124x ADA-COMPLIANT EMERGENCY TELEPHONE INSTRUCTIONS

Applies to Vpp Models T1240, T1240D, and T1241U

Programming of the T124x:

THREE EASY STEPS

- Start:**
- * Determine the telephone number to which the T124x is connected.
 - * Determine the emergency telephone number(s) the T124x will call when the "Push for Help" button is pressed.
 - * Determine what your voice message will say.

1. Enter Programming Mode:

- * Call the T124x. (From any Touch Tone phone) It will answer within (2) rings and emit (1) *beep*.
- * Press 2# to enter programming mode. The T124x will emit (3) *beeps*.

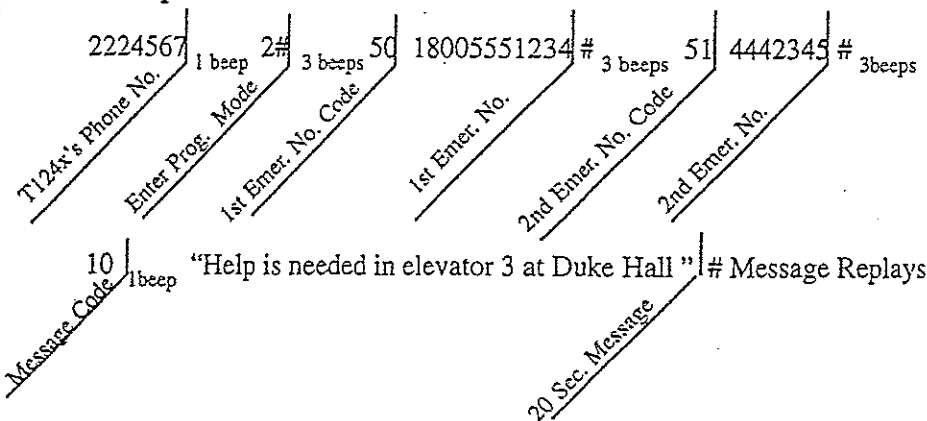
2. To Program the Emergency Number(s):

- * To enter 1st number press 50 (enter the phone number) press #. The T124x will emit (3) *beeps*.
- * To enter 2nd number press 51 (enter the phone number) press #. The T124x will emit (3) *beeps*.
- * To enter 3rd number press 52 (enter the phone number) press #. The T124x will emit (3) *beeps*.
- * To enter 4th number press 53 (enter the phone number) press #. The T124x will emit (3) *beeps*.

3. To Program the Voice Message:

- * To record your message press 10. The T124x will emit (1) *beep*. Record your message. Press #. The T124x will replay your message and emit (3) *beeps*.

Example:



NOTE: The T124x will emit a raucous buzz if any entry is incorrect or not started within 5 seconds of acknowledgement. Simply re-enter the program code and program item again.

NOTE: A pause can be inserted in the emergency number for systems that require an access code to establish connection with an outside line. Use the "" key on the telephone keypad for each (2) second pause.*

Hang Up. You have successfully programmed the T124x
for (2) emergency #'s and (1) voice message.

Finish:

1. Review the T124x's additional features and their *Program Codes* on the reverse page.
2. Install the T124x. See Mechanical Instructions on pages 3-5.

Thank You for choosing Vpp's T124x for your emergency communication needs!

Vpp

Vandal-Proof Products, Inc. Trenton, NJ

1.0 ADDITIONAL PROGRAMMING OPTIONS:

The T124x has extensive capabilities that allow you to customize it to specific installation conditions. Here is a listing of those features with the *programming codes*, required *program item* entries, and the response from the T124x.

| Program Code | Program Item | Programming Feature: | T1240 Response | Factory Setting |
|--------------|------------------|---|----------------|-----------------|
| 10 (1beep) | Speak Message # | Records 1st voice message - Either 10 or 20 seconds | 3 beeps | |
| 11 (1beep) | Speak Message # | Records 2nd voice message - 10 seconds maximum. | 3 beeps | |
| 20 | None Required | Plays back 1st programmed message. | 3 beeps | |
| 21 | None Required | Plays back 2nd programmed message. | 3 beeps | |
| 31 | None Required | Programs T124x for 1 message - Heard at both locations. | 3 beeps | Default |
| 32 | None Required | Programs T124x for 2 messages. 10 seconds each. 2nd message heard at call receiving end only | 3 beeps | |
| 34 | None Required | Programs for 2 messages. 10 seconds each. Messages are heard at both locations. | 3 beeps | |
| 40 | None Required | Programs the dialing mode to DTMF tones. | 3 beeps | Default |
| 41 | None Required | Programs the dialing mode to Pulse. | 3 beeps | |
| 42 | Nbr From 1-9 # | Set numbr of rings before T124x answers a call. | 3 beeps | 1 Ring |
| 50 | Tele. Number # | Loads 1st Emergency Number the T124x will call. | 3 beeps | Blank |
| 51 | Tele. Number # | Loads 2nd Emergency Number the T124x will call | 3 beeps | Blank |
| 52 | Tele. Number # | Loads 3rd Emergency Number the T124x will call. | 3 beeps | Blank |
| 53 | Tele. Number # | Loads 4th Emergency Number the T124x will call | 3 beeps | Blank |
| 55 | Tele. Number # | Loads Battery Back Up Warning Number that the T124x will call when the Unit is operating on its battery for 15 min. | 3 beeps | Blank |
| 56 | Number(s) # | Loads Computer Identifier. | 3 beeps | Blank |
| 57 | Number(s) # | Load Programming Password. Suggested when more than one T124x is connected to one line. | 3 beeps | Blank |
| 58 | Number(s) # | Load Monitoring Password. | 3 beeps | Blank |
| 63 | Nbr from 1-99 # | Set maximum conversation time in minutes. | 3 beeps | 10 Min |
| 64 | Nbr from 10-99 # | Set Silence Timeout in seconds. Rarely needed. | 3 beeps | Off |
| 70 | None Required | Set T124x to Converse Mode. Enable conversation as soon as T124x answers incoming call. | 3 beeps | Default |
| 71 | None Required | Set T124x to Hang Up Mode. Requires caller to enter a 1 # to connect to a T124x. | 3 beeps | |
| 72 | Nbr from 0-3 # | Set numbers of times the message will play. | 3 beeps | 2 times |
| 80 | None Required | Sets "Voice Answer". T124x will detect speech, busy signals and ringing. No call receiver entry req'd. | 3 beeps | Default |
| 81 | None Required | Sets "Tone Answer". Call receiver entry req'd. | 3 beeps | |
| 90 | None Req'd | Re-Sets the T124x to all Factory Default Settings. | 3 beeps | |

Refer to pages 7-8 for more detail on Program Code function.

2.0 MECHANICAL AND ELECTRICAL INSTALLATION

2.1 For Model T1240

Note: This unit requires two connections. One for the incoming telephone line and one for power to the unit. The power is derived either from a supplied AC to DC converter or from an isolated DC source of 5.5 to 24 Volts such as a cab back up lighting supply.

Mechanical Installation: Using optional Vpp mounting plates and hardware.

Flush Mount: Using adaptor plate part no. 30022 (refer to figure 1 below)

1. Loosen hardware on all 4 corner studs on back of phone.
2. Slide the adaptor plate over the dust cover. Make sure the best side is facing out.
3. Tighten the hardware with the front panel of the phone tight against the adaptor plate.

Surface Mount: Using bracket part no. 30018 (refer to figure 2 below)

1. Remove the 4 screws holding the back dust cover to the phone. Do not remove the dust cover.
2. Align the bracket over the holes in the dust cover with the slot in the bracket aligned with the cut out in the dust cover.
3. Re-insert the 4 screws through the bracket and dust cover and secure firmly.
4. Connect the phone per the Electrical Installation below.
5. Mount the phone and bracket to the wall using the adaptor plate as a drilling template.

Electrical Installation:

1. Connect the telephone using the modular cord provided or else cut the modular cord in half and use the provided compression splices to connect the incoming wire to the red and green wires in the modular cord (polarity does not matter). The black and yellow wires in the modular cord are not needed and may be trimmed back. **CAUTION: FOR BEST PERFORMANCE, THE TRAVELING CABLE PHONE WIRING SHOULD BE SHIELDED TWISTED PAIR WITH THE SHIELD GROUNDED AT THE ELEVATOR CONTROLLER END ONLY. INSULATE THE SHIELD SO THAT IT IS NOT GROUNDED ANYWHERE ELSE IN THE INSTALLATION. THE NEXT BEST ACCEPTABLE WIRING IS TWISTED PAIR WITH ALL SPARE WIRING IN THE TRAVELING CABLE GROUNDED AT THE CONTROLLER END ONLY.**
2. Connect the power for the phone. If using the AC to DC converter, connect the supplied converter to a 120 VAC source. If using an isolated cab back up lighting battery, connect the supplied red and black pigtail across the battery. **POLARITY COUNTS!! RED is positive and BLACK is negative.**
3. Connect the power connector and telephone modular jack to the phone. Slide the battery switch to "On".
4. To Program the T1240 proceed to page one.

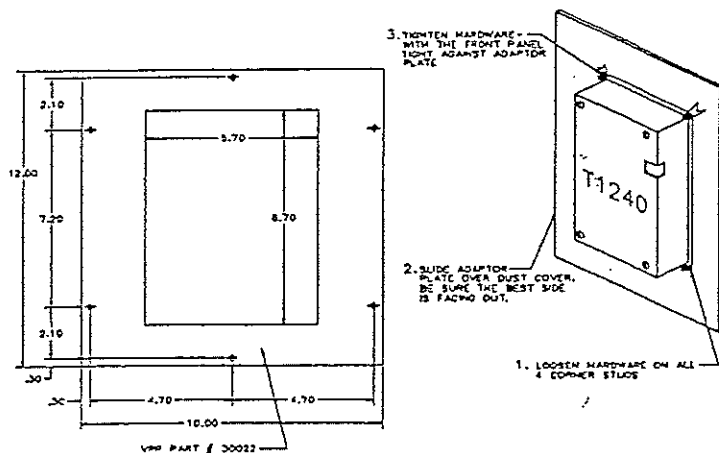
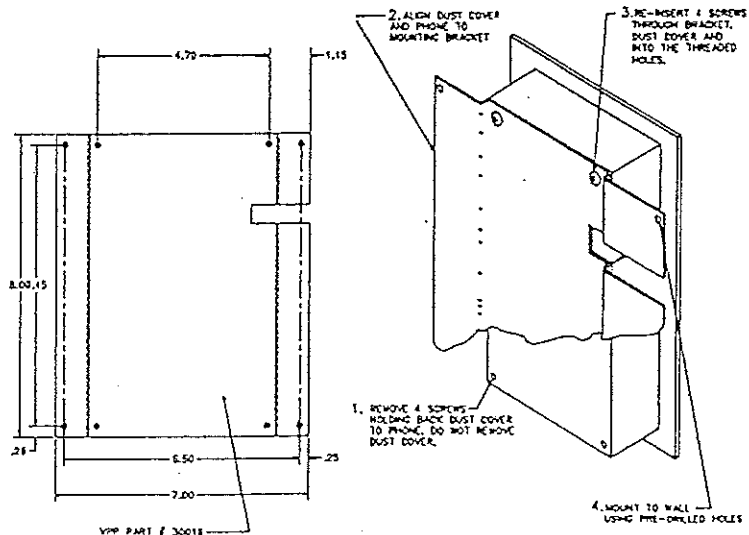


Figure 1 Flush Mount

Figure 2 Surface Mount

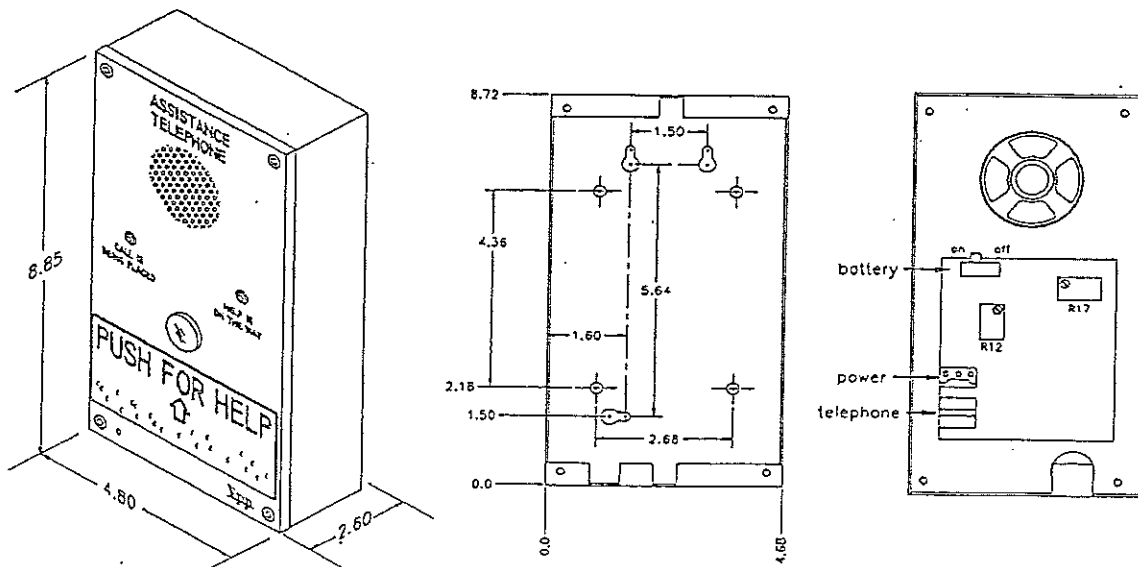


2.2 For Model T1240D

Note: This unit requires two connections. One for the incoming telephone line and one for power to the unit. The power is derived either from a supplied AC to DC wall converter or from an isolated DC source of 5.5 to 24 Volts such as a cab back up lighting supply.

1. Determine the best position of the phone in the elevator phone cabinet.
2. Mark screw hole locations in the back of the phone cabinet using the phone box bottom as a locating template.
3. Drill the holes to mount the phone bottom. CAUTION: MAKE SURE THERE IS CLEARANCE BEHIND THE ELEVATOR PHONE CABINET BEFORE DRILLING.
4. Mount the elevator phone bottom.
5. Pass the cabling from the incoming phone line and the cabling from the power source through the slots in either end of the phone bottom.
6. Connect the telephone line using the modular cord provided or else cut the modular cord in half and use the provided compression splices to connect the incoming wire to the red and green wires in the modular cord (polarity does not matter). The black and yellow wires in the modular cord are not needed and may be trimmed back. CAUTION: FOR BEST PERFORMANCE, THE TRAVELING CABLE PHONE WIRING SHOULD BE A SHIELDED TWISTED PAIR WITH THE SHIELD GROUNDED AT THE ELEVATOR CONTROLLER END ONLY. INSULATE THE SHIELD SO THAT IT IS NOT GROUNDED ANYWHERE ELSE IN THE INSTALLATION. THE NEXT BEST ACCEPTABLE WIRING IS TWISTED PAIR WITH ALL SPARE WIRING IN THE TRAVELING CABLE GROUNDED AT THE CONTROLLER END ONLY.
7. Connect the power for the phone. If using the AC to DC converter, connect the supplied converter to a 120 VAC source. If using an "isolated" cab back up lighting battery, connect the supplied red and black pigtail across the battery. POLARITY COUNTS!! RED is positive and BLACK is negative.
8. Connect the power connector and telephone modular jack to the phone. Slide the battery switch to "On". Secure the telephone to the bottom being sure to tuck in any loose wires so they are not crushed.
9. To program the T1240D proceed to page one.

T1240D Mounting Diagram



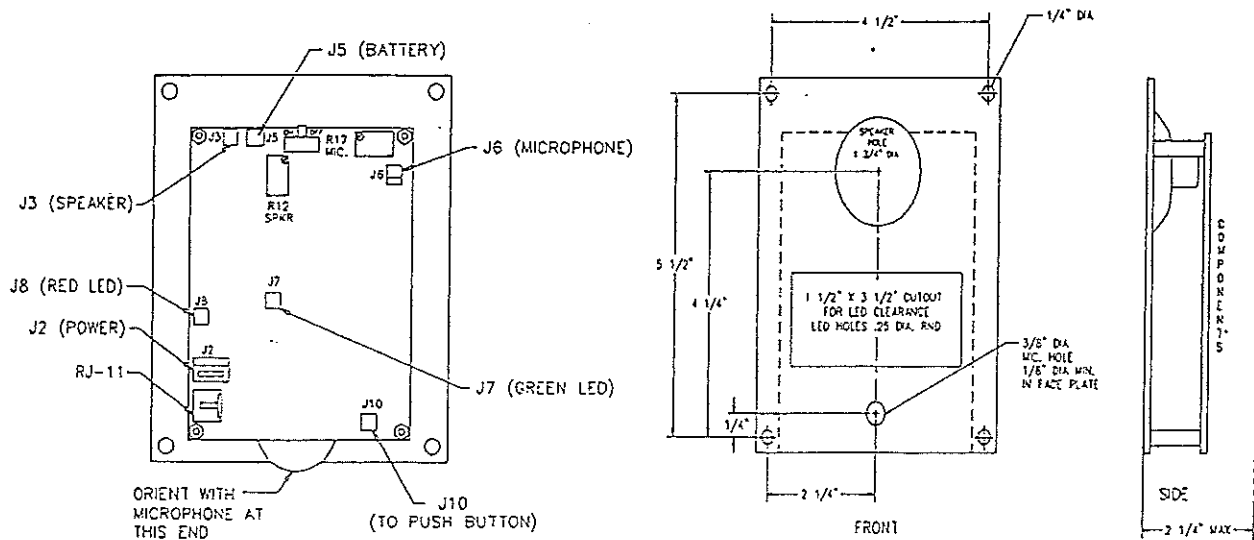
2.3 For Model T1241U

This unit is intended for installation on a customer supplied panel with appropriate mounting studs on the inside of the panel and with a speaker grill pattern and a microphone hole in the panel at the proper locations. See the dimensions below. It is recommended that the speaker grill pattern have a minimum of 20% open area. The T1241U is snugged tightly against the panel to slightly compress the foam gaskets around the speaker and the microphone. The unit is supplied with a red and a green LED with protective bezels, an activation button connector with 3' leads, a 110VAC to DC converter, a battery pack and a power connector with 3' leads if an alternative source of power is used. This unit requires six connections. One for the incoming phone line, two for the LEDs, one for the activation button, one for the battery pack and one for power to the unit. The power is derived either from a supplied AC to DC converter or from an isolated DC source of 5.5 to 24 Volts such as a cab back up lighting supply.

Electrical Installation:

1. Connect the telephone using the modular cord provided or else cut the modular cord in half and use the provided compression splices to connect the incoming wire to the red and green wires in the modular cord (polarity does not matter). The black and yellow wires in the modular cord are not needed and may be trimmed back. **CAUTION: FOR BEST PERFORMANCE, THE TRAVELING CABLE PHONE WIRING SHOULD BE SHIELDED TWISTED PAIR WITH THE SHIELD GROUNDED AT THE ELEVATOR CONTROLLER END ONLY. INSULATE THE SHIELD SO THAT IT IS NOT GROUNDED ANYWHERE ELSE IN THE INSTALLATION. THE NEXT BEST ACCEPTABLE WIRING IS TWISTED PAIR WITH ALL SPARE WIRING IN THE TRAVELING CABLE GROUNDED AT THE CONTROLLER END ONLY.**
2. Connect the activation button. Connect the un-terminated end of the provided 3' pair of wire with the two pin female connector to the customer supplied activation button on the panel two which the phone is mounted. The button must be normally open with momentary closure to activate the phone. Attach the connector end to J10 on the phone.
3. Connect the LEDs. Attach the Green LED connector to J7 and the red LED connector to J8.
4. Connect the power for the phone. If using the AC to DC converter, connect the supplied converter to a 120 VAC source. If using an isolated cab back up lighting battery, connect the supplied red and black pigtail across the cab battery. **POLARITY COUNTS!! RED is positive and BLACK is negative.**
5. Connect the battery pack. Strip the release paper from the double sided tape on the battery pack and secure the battery pack in the general area of connector J5 on the phone. Make sure the battery switch is in the off position. Connect the battery pack connector to J5.
6. Connect the power connector and telephone modular jack to the phone. Slide the battery switch to on.
7. To program the T1241U proceed to page one.

T1241U Mounting Diagram



3.0 DESCRIPTION OF OPERATIONS

3.1 OUTGOING CALLS

When someone presses its button, the T124x goes off hook, turns on the red light, dials the first preprogrammed number, and waits to see if it has made a connection. If not, it goes on to the second number (if there is one programmed), and does the same thing. If the second number fails and there is a third preprogrammed number, the T124x tries that. If the third fails and there is a fourth, the T124x tries that. If all preprogrammed numbers fail, the phone repeats the whole process until it has tried all numbers three times.

If the T124x's setting is left at voice answer (code 80), once the call is answered by the agent it turns on the blinking green indicator light and plays the recorded message zero, one, two, or three times. Two-way conversation can immediately begin. No keypad entry is required from the agent. However, the agent can press "0" to hear the recorded message again.

The T124x will hang up if any of five things happens:

1. The answering party hangs up. Most public telephone networks signal this condition with a momentary drop in line current, which the phone senses. (This may not occur in PBX installations.)
2. The phone detects a reorder (fast busy) signal. Most public telephone networks that do not signal with a momentary drop in line current will generate a reorder signal instead. (This may not occur in PBX installations.)
3. The answering party transmits a "#" DTMF tone.
4. The call timer expires. This timer is programmable from 1 to 99 minutes. Before the timer expires, the phone emits a warbling sound as a warning and gives the agent time to reset the timer by pressing a 1, 2, or 3 for two, five or ten minutes more conversation time respectively.
5. The optional silence timer expires. This timer can be set from 10 to 99 seconds, or it can be disabled. It is intended for use with telephone networks that do not signal with a drop in line current and do not generate reorder. The silence timer is usually not needed.

If the T1240x is set for *tone answer* the agent will need to enter a 1, 2, or 3 to begin the conversation time. Tone answering mode is rarely needed (see program code description 81 on page 8 for more detail).

3.2 INCOMING CALLS

Incoming calls have a number of purposes. You may be calling the T124x to talk to someone at that end ("converse mode"), to listen silently to what's going on at the T124x's location ("silent monitor mode"), or to program the T124x ("program mode"). You will need to know the telephone number which the T124x is connected to. Dial that number as you would any other number.

When the T124x answers an incoming call, it emits a short beep to let you know that it has answered. It then waits two seconds for you to select one of the incoming call modes with your keypad. If you don't enter a keystroke within two seconds to enter an explicit mode, then the phone will do one of the following, depending on how you have chosen to program its "answer setting".

If you have chosen "converse", the phone will ring through and conversation can begin.

If you have chosen "hang up", the phone will hang up.

Your choice for the "answer setting" is likely to depend upon whether the phone can be dialed from outside. If you are concerned about calls being made by unauthorized persons, you can limit the phone's accessibility by selecting the "hang up" option. You will still be able to enter silent monitor or converse modes using explicit mode selection. The explicit calling modes identify what type of call to the T124x you are making and are explained below:

Press 1# (needed only if answer setting is set for "Hang Up" mode)

The T124x emits a single ring through its speaker and then behaves just as it does after a connection has been established in an outgoing call. Full duplex conversation with anyone at the phone can proceed. The T124x will hang up in response to any of the conditions that terminate an outgoing call.

Press 2# for Programming mode

The T124x emits a single beep when it answers your call. Press 2# and the T124x emits 3 beeps to acknowledge you are in the programming mode. It will wait 5 seconds for a programming code to be entered. After each successful entry it will beep three times and wait for the next code to be entered. An unsuccessful entry will result in a raucous buzz and the phone will wait for the next program code. The third unsuccessful entry will terminate the call. Pressing the # key or simply hanging up will end the call.

Press 4# for Silent monitor mode

The T124x beeps 3 times (over the line, not through the speaker) to let you know it has entered the mode. The speaker is disabled and there is no ring at the T124x. If the T124x is programmed for a silence timeout, it is ignored.

4.0 PROGRAMMING CODES DETAIL

The factory settings will probably be sufficient for most installations. This means that in most cases the only programming you will be required to do is to record a voice message and to tell the T1240 what number(s) to call when the "Push for Help" button is pressed. However, the T124x has additional features which allow you to customize the phone to specific installation conditions.

The next section describes in more detail all of the program codes that are listed on page 2. Program Codes either activate or deactivate a feature of the T124x, and allow entry of a program item. Program Items are the *numbers* or *messages* being programmed and are always followed by the # key to indicate completion.

4.1 Index of Program Codes

10: Record first voice message.

The T124x can store up to twenty seconds of speech, which can be treated as a single long message or two short ones (See commands 31 to 34, below). If the T124x is programmed for either of the two-message modes (codes 32 and 34), each of their durations are limited to ten seconds. The process of recording a voice message is very much like leaving a message on an answering machine: You speak after a beep. The difference is that you can set the length of the message by entering "#" after you have spoken. If you don't do this, the phone will record for the full ten or twenty seconds. After you enter the #, the new message will replay for your review.

11: Record second voice message.

This code will record a message of up to ten seconds if you have first programmed one of the two-message settings (codes 32 and 34). If the single-message setting has been selected (factory default), you will hear a raucous buzz when you enter the code "11".

20: Play back the first voice message.

This code allows you to review the voice message after programming to verify the message, just as you would when verifying an outgoing message on an answering machine. You must be in the programming mode to enter this code.

21: Play back the second voice message.

Allows the second voice message to be verified. However, if the single-message setting has been selected, you will hear a raucous buzz indicating no message is available for replay.

31: Select single message. (Factory Default setting)

The entire voice memory will be used to store a single message of up to twenty seconds in length.

32: Select two messages (2nd message used as instructions to agent)

The voice memory is used to store two ten-second messages. They alternate during a button-activated call, with the first message being played to the agent and over the T124x speaker, and the second message being played only to the agent.

34: Select two messages (heard by both caller and agent)

The voice memory is used to store two ten-second messages. They alternate during a button-activated call, with both messages being played to the agent and over the T124x speaker. Useful if messages in two languages are required.

40: Set dial mode to DTMF. (Factory Default setting)

DTMF means "Dual Tone Multi-Frequency", or tone dialing.

41: Set dial mode to pulse

This is the old-fashioned click-click-click of rotary phones.

42<digit> #: Set ring count (Factory Default setting is 1)

This optional feature causes the phone to wait for the programmed number of rings before answering an incoming call. It is normally used when the T124x shares a line with another non-emergency telephone that may be answered by a person. If the digit is 1, the T124x will answer on the first ring. If it is 2, the T124x will answer on the second, and so on up to ten. If the digit is zero or omitted, the T124x will answer on the first ring.

50 <phone number> #: Load first emergency number

This is the first number dialed when the "Push for Help" button is pressed. It can have from zero to twenty digits, including "", which tells the T124x to insert a two second pause. This is sometimes needed after dialing an access code for an outside line. For ringdown systems this program item should be left empty. When the button is activated, the T124x will go off hook but not dial.

51 < phone number> #: Load second emergency number

This is the optional second number dialed by the button. It can have from zero to twenty digits, including "", which tells the phone to insert a two second pause. This is sometimes needed after dialing an access code for an outside line. Leaving this program item empty disables the second number feature.

52 < phone number> #: Load third emergency number

This is the optional third number dialed by the button. It can have from zero to twenty digits, including "***", which tells the phone to insert a two second pause. This is sometimes needed after dialing an access code for an outside line. Leaving this program item empty disables the third number.

53 < phone number> #: Load fourth emergency number

This is the optional fourth number dialed by the button. It can have from zero to twenty digits, including "***", which tells the phone to insert a two second pause. This is sometimes needed after dialing an access code for an outside line. Leaving this program item empty disables the fourth number.

55 < phone number> #: Load backup battery warning number

If the phone is equipped with a battery, you may program a number for the T124x to call automatically after 15 minutes of battery operation. Leaving this program item empty will disable this feature.

56 < number> #: Load computer identifier

This number, up to twenty digits in length, is sent out in response to a "7" entered by the receiving agent during a call. This identifier is also sent out during battery calls. It is normally used when the T124x is connected to a computer for remote monitoring.

57 < number> #: Load programming password (Factory Default setting is blank)

The password can have from zero to twenty digits. Leaving this program item empty is legal and disables password protection, allowing you to get into the programming mode by entering only a "2#".

58 < number> #: Load monitor password (Factory Default setting is blank)

The password can have from zero to twenty digits. Leaving this program item empty is legal and disables password protection, allowing you to get into the converse or silent monitor mode by entering only a "1#" or "4#" respectively.

63 < number> #: Set maximum conversation time (Factory Default setting is 10 minutes)

The number you program sets the time in minutes, (from 1 to 99) that a conversation can last between the caller and the receiving agent before requiring entry of 1,2, or 3 by the agent to continue conversation time.

64 < number> #: Set silence timeout (Factory Default setting is 0 for disabled)

The silence timeout terminates a conversation after a specified period of silence. It is recommended that this timer be left disabled. It is intended for use with telephone networks that do not signal with a drop in line current, CPC, and do not generate reorder. This feature is normally not needed and can be disabled by programming a "0". If a silence timeout is desired, it may range from 10 to 99 seconds. A value between 1 and 9 sets the timeout to 10 seconds.

70: Set answering mode for incoming calls to the T124x to "converse" (Factory Default setting)

With this setting, the T124x will automatically enter converse mode if no keystrokes are entered after it has answered an incoming call. Full Duplex conversation can then take place.

71: Set answering mode for incoming calls to "hang up"

With this setting, the T124x will hang up if no keystrokes are entered after it has answered an incoming call.

72 < number> #: Set number of message repetitions (Factory Default setting is 2)

This is the number of times the message is played after the agent has answered. It can vary from zero to three. Setting it to zero stops the phone from playing voice messages automatically, but it doesn't stop the phone from playing voice messages in response to a DTMF keypad entry of "0" by the agent.

80: Select *voice answer* (enables call progress monitoring) (Factory Default setting)

Call progress monitoring is the process by which the phone detects speech, ringing, busy signals, etc., and uses these to know when to abandon unsuccessful call attempts and when to play the voice message. This is an important feature which eliminates training an agent on keypad entry codes.

81: Select *tone answer* (disables call progress monitoring)

This mode can be used if call progress monitoring doesn't work properly because of noisy lines or nonstandard exchanges. In this mode:

1. Busy signals and reorder tones are not recognized. Instead, the phone times out unsuccessful calls after thirty seconds.
2. The voice messages begin playing as soon as the button is pushed.
3. The agent must press a tone key (1, 2 or 3 on the keypad) to let the phone know that the call has been answered. After the keystroke, the voice message is played and two-way conversation is enabled.

90: Set Factory Default settings

The T124x returns to factory configuration. Voice messages and stored telephone numbers are unaffected.

4.2 Playback Codes

When in the programming mode the following codes play back programmed numbers as DTMF tones and are normally used when the T1240 is connected to a computer. However, they can be used to confirm that a number has been programmed.

| | |
|------|--|
| 050: | Play back first programmed emergency number |
| 051: | Play back second programmed emergency number |
| 052: | Play back third programmed emergency number |
| 053: | Play back fourth programmed emergency number |
| 055: | Play back programmed battery number |
| 056: | Play back programmed identifier |
| 057: | Play back programming password |
| 058: | Play back monitor password |

5.0 TESTING AND TROUBLE SHOOTING

5.1 Testing

From your programming location

After you have programmed the T124x, you can verify the voice messages by entering program codes 20 and 21. Dial the T124x. Within 2 seconds of the beep press 2#^{3Beeps} 20. (Press 2 password # if you programmed a password). The T124x will play back the first voice message that you programmed. If you programmed a second voice message and wish to verify it, press 21 after the acknowledgment of 3 beeps.

You can also verify that you programmed numbers with codes 50 through 58 by pressing 050 through 058. For example, if you wanted to confirm that you programmed a monitor password, you can dial the T124x, after the beep press 2#^{3Beeps} 058. The T124x will emit the DTMF tones of the monitor password you programmed.

From the T124x

Press the "Push for Help" button. The red light will go on and the T124x will dial the first number programmed into the program code 50 slot. If the phone was programmed for "voice answer" (factory default setting 80), the green light will go on and blink and the first voice message is played as soon as the agent answers and speaks. If the T124x was programmed for "tone answer" (code 81) it plays the message as soon as it dials the number. The green light will go on and blink when the agent answers and presses a 1, 2, or 3 on his keypad to acknowledge.

If the first called number doesn't answer, the T124x will automatically dial the second number programmed into the code 51 slot. The T124x will try all programmed numbers 3 times before going back on-hook.

Calling into the T124x

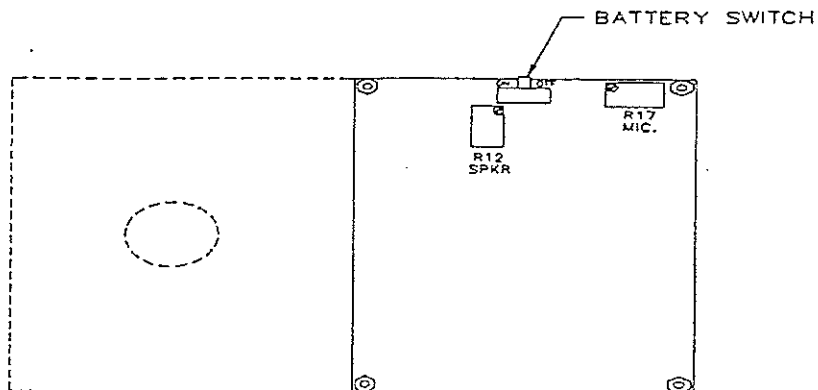
It is suggested that the emergency answering service (agent) call the T124x to confirm that two-way conversation can be established. The agent will dial the telephone number for the T124x. In converse mode the T124x will answer and emit (1) beep and if no keypad entry is made within 5 seconds the agent and whomever is at the phone can begin to talk.

5.2 Volume Control

All units shipped from the factory have the microphone and speaker volumes set and balanced. This setting should be acceptable for 98% of the applications. In certain cases it may be necessary to increase the speaker volume or to lower the microphone volume to eliminate feedback.

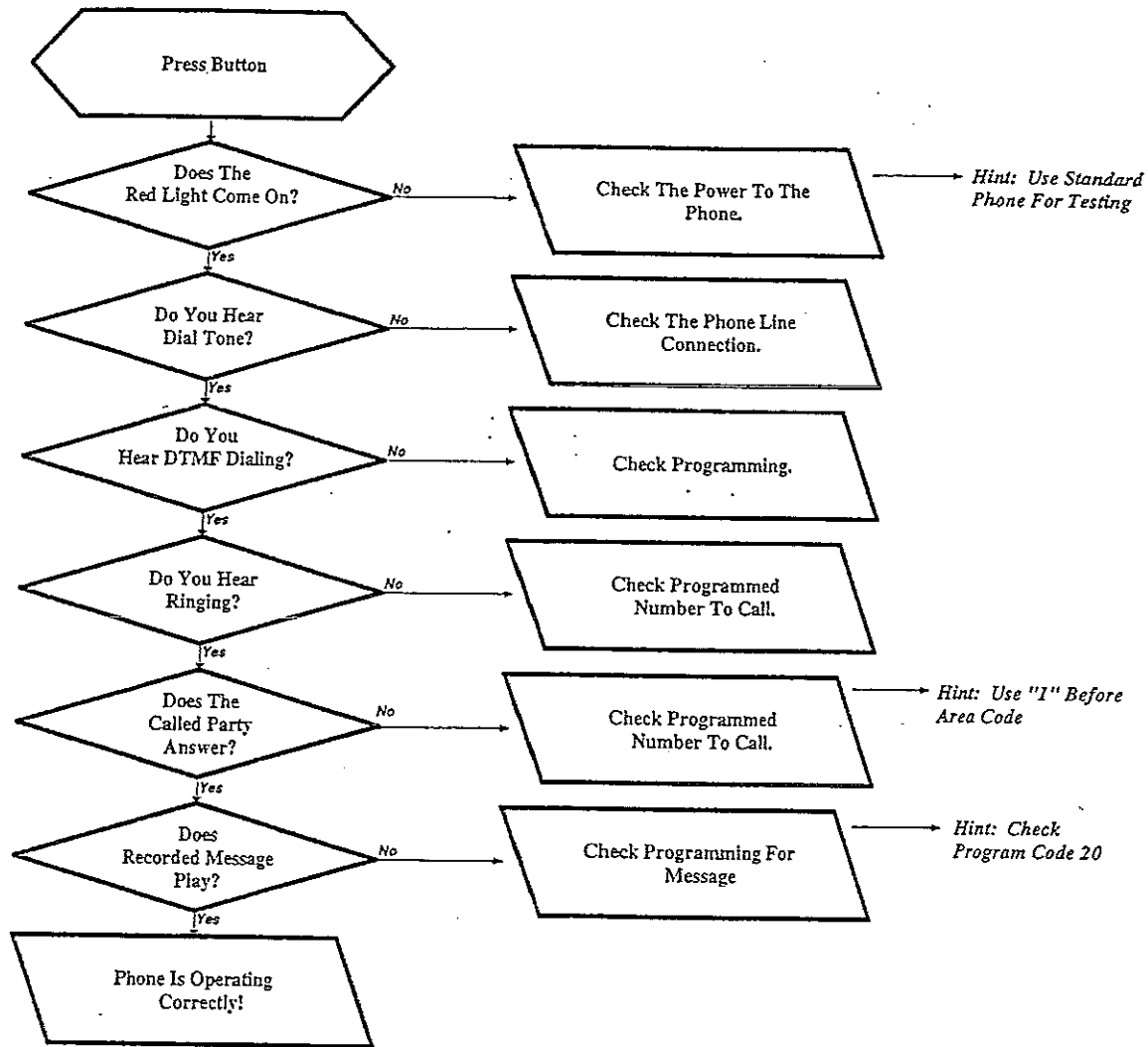
The volume of the speaker or microphone can be adjusted by the installer. On the circuit board R12 controls the speaker and R17 controls the microphone. Adjustments should be made in 1/2 turn increments. A clockwise turn increases and counterclockwise decreases. If the speaker volume is increased, it may be necessary to adjust the microphone in the opposite direction to obtain a balance and avoid feedback. The unit should be re-tested after adjustment.

T124x Circuit Board Connections



5.3 Troubleshooting Flowchart

T1240 Troubleshooting Procedure



5.4 Help and Support

PLEASE READ BEFORE CALLING FOR ASSISTANCE!

For Elevator Service and Installation Companies who have purchased their product from our exclusive distributor, RWC/ Siecor, please contact:

RWC/Siecor
2151 North Church Street
Rocky Mount, NC 27802-1237
800-533-8198
252-972-6000

Ask for technical support for emergency telephone
Exception: Innovation Industries customers contact Vpp listed below.

For all other application assistance contact:

Vandal-Proof Products, Inc.
4 Crossroad Drive, Suite 110
Trenton, NJ 08691-9447
800-501-7790

Ask for technical support

6.0 FCC and IC CERTIFICATIONS

6.1 FCC Notification and Repair Information

This equipment is registered with the FCC in accordance with Part 68 of its rules. On the back of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN). If requested, this information must be provided to the telephone company. In compliance with those rules, you are advised of the following:

Means of Connection: Connection to the telephone network shall be through a standard network interface jack USOC RJ11C. These USOC jacks must be ordered from your Telephone Company. FCC compliant line cords are not provided with this equipment for connecting to the telephone company provided USOC RJ11C jacks. Use only FCC compliant line cords and jacks for these connections. Connection to party line services is subject to state tariffs. Contact the state public utility commission, public service commission or corporate commission for information.

REN Information: The REN is used to determine the quantity of devices which may be connected to the same telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to incoming calls. In most, but not all areas, the sum of RENs should not exceed five (5). 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.

Repair Instructions: If you experience trouble because your equipment is malfunctioning, the FCC requires that you disconnect the equipment from the network and not use it until the problem has been corrected. Repairs to this equipment can only be made by the manufacturer, its authorized agents, or by others who may be authorized by the FCC. In the event repairs are needed on this equipment, please contact your supplier of this unit.

Rights of the Local Telephone Company: If this equipment causes harm to the telephone network, the local telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will also be advised of your right to file a complaint with the FCC. Your local telephone company may make changes in its facilities, equipment, operations or procedures that affect the proper functioning of this equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

6.2 IC Notification and Repair Information

The Industry Canada (IC) label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The IC does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to connect it to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring for single-line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by the manufacturer or authorized Canadian maintenance facility designated by the manufacturer. Any repairs or alterations made by the user to this equipment, or any equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connect. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority or electrician, as appropriate.

7.0 WARRANTY INFORMATION

Vandal-Proof Products Inc., warrants that this product was delivered to the original purchaser in good working order at the date of purchase. This product carries a two (2) year warranty on parts and labor from the date of purchase from Vpp by the original purchaser. Vpp shall not be responsible for any damage to the unit incurred during installation.

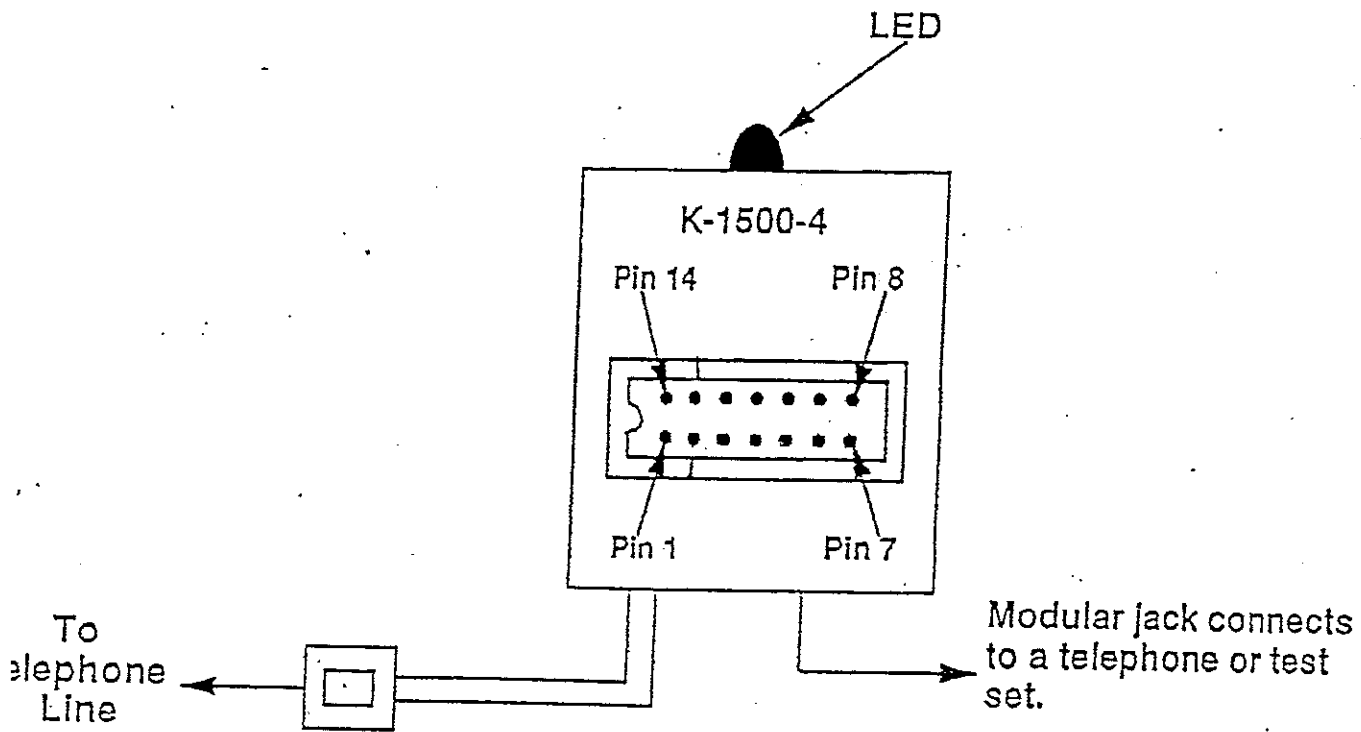
In-Warranty Repairs: If the product was purchased from an exclusive Vpp distributor contact that party for their return policy. If purchased through Vpp, a return authorization with a stated explanation of the problem is required prior to return. Call 800-501-7790 to request authorization. Upon receipt of the repair unit, Vpp will inspect the unit for damage. Vpp shall test the unit for the stated problem, and without charge to the purchaser, repair or replace, at Vpp's option, the components that are not in good working order. If Vpp determines that the unit cannot be repaired, Vpp will apply the original purchase price towards the purchase of another unit.

Out-of-Warranty Repairs: Contact Vpp for return authorization. Call 800-501-7790 for authorization. A full explanation of the problem must accompany return. Upon receipt of the repair unit, Vpp will inspect the unit and then issue a quote for repair charges. Repairs to the unit will be made upon agreement to the repair charge.

Except as specifically set forth above, Vpp, its affiliate, suppliers, and dealers make no warranties, express or implied, and specifically disclaim any warranties of merchantability or fitness for a particular purpose. Ongoing periodic inspections and management of the unit is the sole responsibility of the final owner, and any liabilities which result in neglect will be accountable to the final owner.

Viking

PROGRAMMING THE K-1500-4 WITHOUT A PG-1



PROCEDURE FOR PROGRAMMING

1. Connect a jumper between pins 2 and 13 on the programming socket. Leave this jumper in place while programming (until the end).
2. Connect the modular cord from the dialer to the telephone line.
3. Connect a telephone to the modular jack on the dialer.
4. Go "off-hook" on the telephone.
5. Short together the appropriate pins (with a jumper wire) for each number you want the dialer to dial (see Page 2 for pin numbers).

NOTE: They don't have to be simultaneously shorted together. For example, if the first digit of the program is the digit "1", connect one end of the jumper into Pin #3 of the programming socket; then connect the other end of the jumper to Pin #10. The dialer will then dial that number. The jumper can be removed from either pin first, after the digit has been programmed.

Continue to program the rest of the digits you want the dialer to dial, until the complete number has been programmed.

6. After the complete number has been programmed, hang up the telephone.
7. Remove the jumper that is between Pins 2 and 13 on the programming socket.
8. Go "off-hook" on the telephone again to verify that the correct number has been programmed.

TO PROGRAM
THIS DIGIT:

SHORT TOGETHER THESE TWO PINS
ON THE PROGRAMMING SOCKET:

| | | |
|---|-------|----------|
| 1 | ..... | 3 and 10 |
| 2 | ..... | 3 and 9 |
| 3 | ..... | 3 and 8 |
| 4 | ..... | 4 and 10 |
| 5 | ..... | 4 and 9 |
| 6 | ..... | 4 and 8 |
| 7 | ..... | 5 and 10 |
| 8 | ..... | 5 and 9 |
| 9 | ..... | 5 and 8 |
| 0 | ..... | 6 and 9 |

The Viking K-1500-E/K-1500-EHF is ideal for elevator applications as well as campus grounds, parking ramps, residential applications, nursing homes, highway applications or any area where emergency communication may be required and a standard telephone may not be desired.

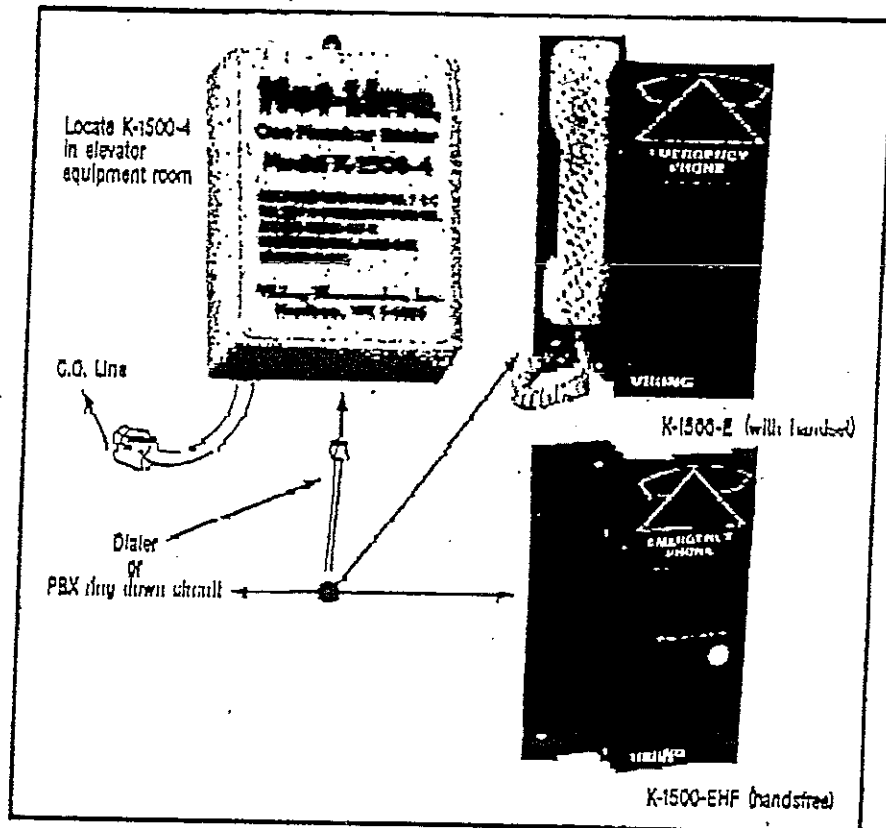
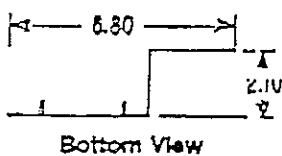
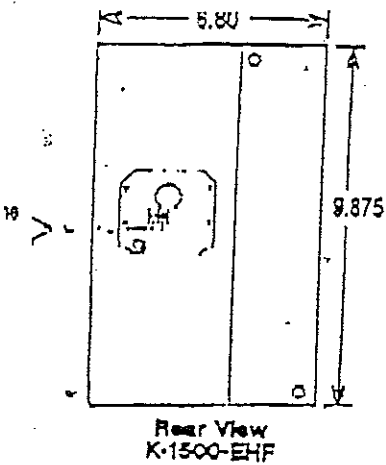
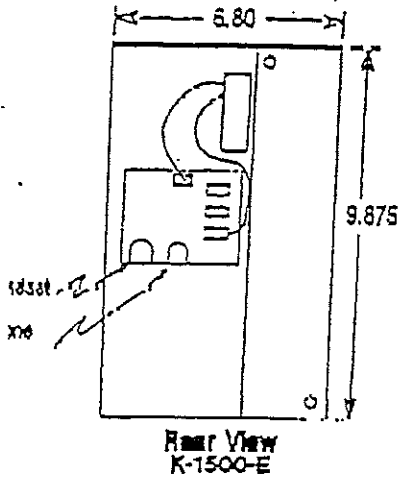
The K-1500-E/K-1500-EHF can be connected to a PBX ring down circuit to provide instant ring and station identification to an office. Or, the K-1500-E/K-1500-EHF can be used in conjunction with a Viking Hot Line dialer connected to a normal line. When used with a hot line dialer, the K-1500-E/K-1500-EHF will initiate the dialing sequence (up to 15 digits).

The K-1500-EHF will remain connected to the line for two minutes during which time the user(s) may converse in the handsfree mode with the security personnel. The handsfree operation of the K-1500-EHF offers higher security and cannot be compromised by vandals removing the handset.

After the two minute time-out, the K-1500-EHF will shut off. This automatic time-out and reset feature reduces the time and effort of the security staff in the event of prank and/or false alarms.

The K-1500-EHF contains a ring sensor which allows security personnel to initiate a silent call to monitor the location or converse with the users.

EMERGENCY AND ELEVATOR APPLICATION



CAUTION

This product is designed and built utilizing electronic industry practices. When installed properly this product will provide reliable service for years to come. This product is designed to be mounted in or on enclosures suitable for outside electrical installations.

This product will fail if water is allowed to accumulate or to condense in the form of droplets directly on the electronic components or the circuit board.

Disturbance equipment is subject to damage from electrical surges, lightning and static electricity. We recommend regular testing of the system to ensure operational integrity.

Product Support Hot-Line... (715) 386-8666

Due to the dynamic nature of the product design, the information contained in this document is subject to change without notice. Viking Electronics, its affiliates and/or subsidiaries assume no responsibility for errors and/or omissions contained in this information. Revisions of this document or new editions of it may be issued to incorporate such changes.

VIKING 1531 Industrial St., Hudson, WI 54016

Telecom Solutions for the 21st Century

24 Hour Fax Back System... (715)386-4345

World Wide Web...<http://www.VikingElectronics.com>

Sales...(715)386-8861

Product Support...(715)386-8666

Fax...(715)386-4344

E-Mail...Sales@VikingElectronics.com

America Online...VikingElec

Fax Cover Sheet

To: Gary

Fax #: 9087392251

Date & Time: Feb 10 1997, 08:46 AM

Dear Gary

Here is your information!

We at **VIKING** want to be your "Personal Telecom Answer Source."

If we don't make what you need, we'll refer you to someone who does! So,

Ask VIKING First!!

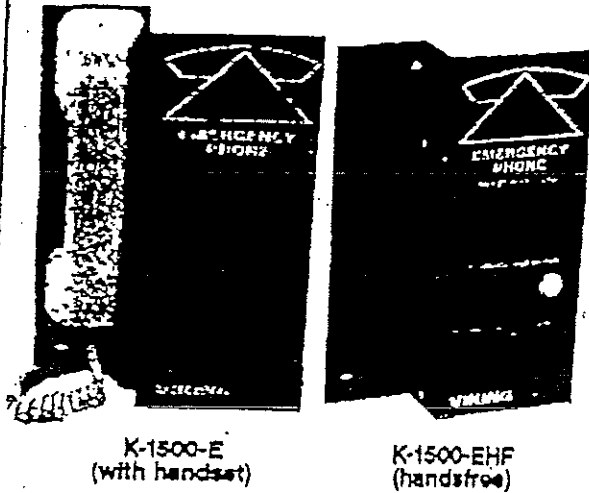
VIKING

Viking Electronics, Inc.
1531 Industrial Street
Hudson, Wisconsin 54016

Discovering practical applications for advanced technology.
Sales Line: 715-386-8861

Technical Practice

ITEM: Emergency/Elevator Phones
MODEL: K-1500-E
K-1500-EHF
K-1500-ER
ISSUE: November, 1990



The Viking Electronics Elevator Emergency Phones are designed to provide quick, reliable communication to emergency personnel.

Models K-1500-E and K-1500-EHF can initiate ring-down circuits or automatically dial a preprogrammed number when the handset is lifted (K-1500-E) or when the emergency button is pressed (K-1500-EHF) - use with the Viking K-1500-4 One Number Dialer. Both models eliminate the need for Touch-Tone or dial pads and complicated operational directions. The K-1500-ER is the same as the K-1500-E, although offers a built-in ringer.

The K-1500-E and K-1500-EHF components conform to industry-set standards, mounting on a heavy-gauge formed metal panel and finished in red baked enamel.

STANDARD EMERGENCY FEATURES

- Handset or handsfree models available.
- Line powered.
- No Touch-Tone® or dial pads; no confusing instructions.
- Conspicuous red baked enamel finish.
- Hearing aid compatible handset.
- Interfaces with Viking One-Number Dialer (Models K-1500-4 or K-1500-5KB) when using a C.O., Centrex, or P.B.X. circuit; up to 5 of the K-1500(E/EHF/ER) phones may be connected to one K-1500-4 or K-1500-5KB dialer. The K-1500-4 requires the PG-1 Programmer to program emergency number.
- Designed for flush mounting in elevator cabs, lobbies, hallways, garage, and entryways.
- Built for easy installation and simple operation.
- K-1500-EHF features push button calling and handsfree operation. Additional features include automatic 2 minute timer, ring detection, and can provide emergency personnel with the ability to call the caller again.

SPECIFICATIONS

DIMENSIONS:

Panel size 6 $\frac{1}{8}$ " X 9 $\frac{7}{8}$ " X 2 $\frac{1}{2}$ "
Mounting Holes: .235"

WEIGHT:

Use (2) 6-32 X $\frac{3}{8}$ " black oval-head screws
2.5 lbs. (K-1500-E)
2 lbs. (K-1500-EHF)

COLOR:

Red baked enamel with white lettering.

POWER:

Line powered.

ENVIRONMENTAL:

10° to 90°F with 5% to 95% non-condensing relative humidity.

CONNECTION/INTERFACE:

Standard tip and ring.

Made In The U.S.A.

The Viking K-1500-E/K-1500-EHF is ideal for elevator applications as well as campus grounds, parking ramps, residential applications, nursing homes, highway applications or any area where emergency communication may be required and a standard telephone may not be desired.

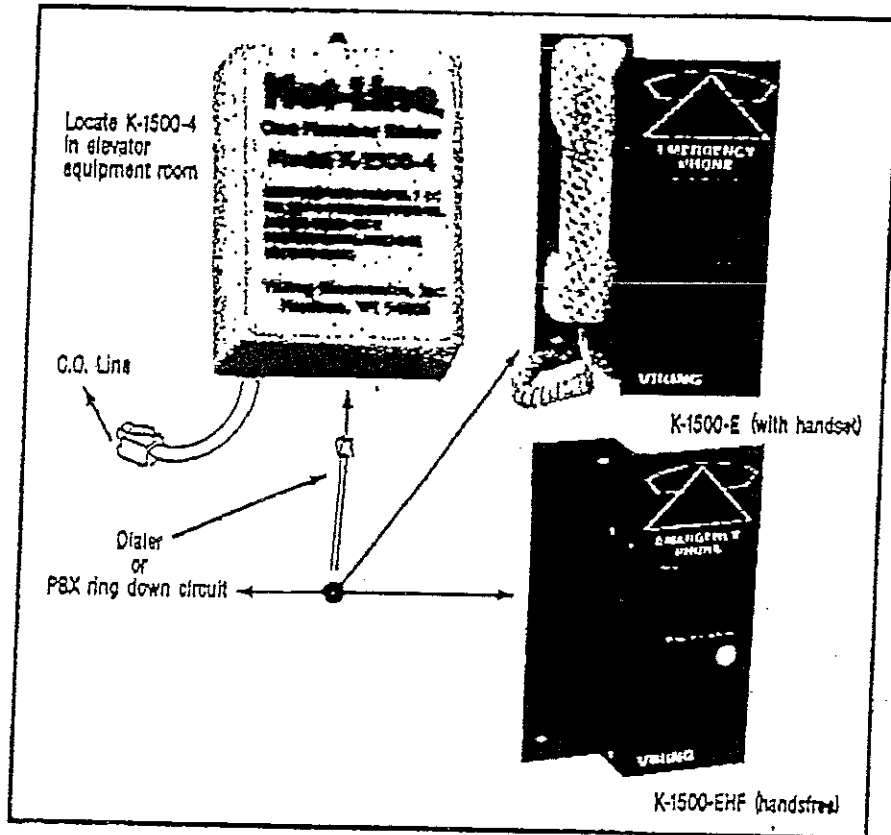
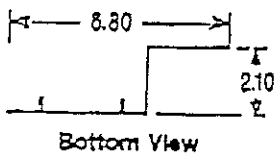
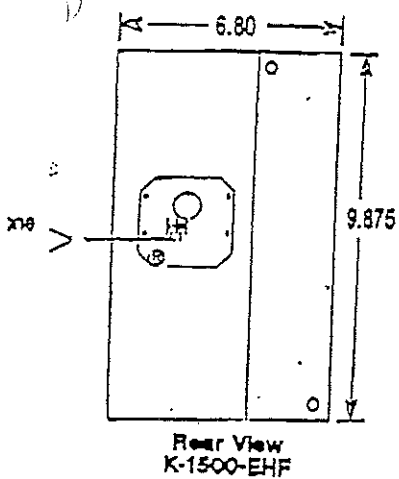
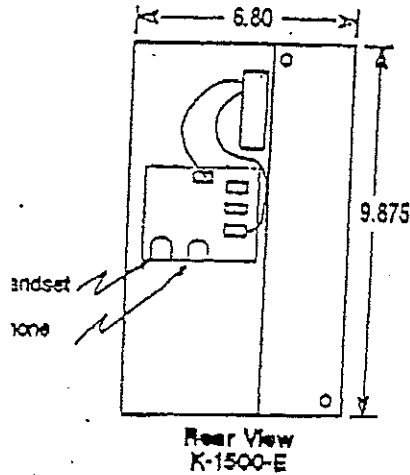
The K-1500-E/K-1500-EHF can be connected to a PBX ring down circuit to provide instant ring and station identification to the security office. Or, the K-1500-E/K-1500-EHF can be used in conjunction with a Viking Hot Line dialer connected to a normal line. When used with a hot line dialer, the K-1500-E/K-1500-EHF will initiate the dialing sequence (up to 15 digits).

The K-1500-EHF will remain connected to the line for two minutes during which time the user(s) may converse in the handsfree mode with the security personnel. The handsfree operation of the K-1500-EHF offers higher security and cannot be compromised by vandals removing the handset.

After the two minute time-out, the K-1500-EHF will shut off. This automatic time-out and reset feature reduces the time and effort of the security staff in the event of prank and/or false alarms.

The K-1500-EHF contains a ring sensor which allows security personnel to initiate a silent call to monitor the location or converse with the users.

EMERGENCY AND ELEVATOR APPLICATION



CAUTION

This product is designed and built utilizing electronic industry practices. When installed properly this product will provide reliable service for years to come. This product is designed to be mounted in or on enclosures suitable for outside electrical installations!

This product will fail if water is allowed to accumulate or to condense in the form of droplets directly on the electronic components or the circuit board!

Electronic equipment is subject to damage from electrical surges, storms and static electricity. We recommend regular testing of the system to ensure operational integrity!

Product Support Hot-Line... (715) 386-8666

Due to the dynamic nature of the product design, the information contained in this document is subject to change without notice. Viking Electronics, its affiliates and/or subsidiaries assume no responsibility for errors and/or omissions contained in this information. Revisions of this document or new editions of it may be issued to incorporate such changes.

VIKING 1531 Industrial St., Hudson, WI 54016

Telecom Solutions for the 21st Century

24 Hour Fax Back System... (715)386-4345

World Wide Web...<http://www.VikingElectronics.com>

Sales...(715)386-8861

Product Support...(715)386-8666

Fax...(715)386-4344

E-Mail...Sales@VikingElectronics.com

America Online...VikingElec

Fax Cover Sheet

To: Josh

Fax #: 7327392251

Date & Time: Oct.31 1997, 03:41 PM

Dear Josh

Here is your information!

We at **VIKING** want to be your "Personal Telecom Answer Source."
If we don't make what you need, we'll refer you to someone who does! So,

Ask VIKING First!!

VIKING[®]

Telecommunication Peripheral Products

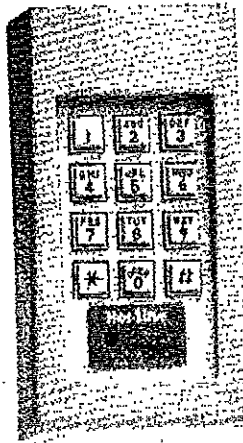
Technical Practice

K-1500-5KB

Hot-Line Dialer

October 28, 1997

Touch Tone or Pulse Hot-Line Dialer



The K-1500-5KB eliminates the need to pay the premium of leased or dedicated phone lines by converting any analog phone into a single number Hot-Line phone. The dialer will operate on any analog PABX or standard Central Office line with any conventional analog phone.

The K-1500-5KB is designed to be compatible with Viking's E-10, E-15, E-20, K-1500-E and K-1500-EHF emergency, elevator or courtesy phones. The K-1500-5KB is line powered and comes complete with an internal battery to retain programming for up to one year. The K-1500-5KB also allows incoming calls and can block fraudulent outgoing calls.

<http://www.VikingElectronics.com>

E-mail...Sales@VikingElectronics.com

Features

- Converts standard phones to Hot-Line phones
- Stores up to an 18 digit speed dial number
- Provides Touch Tone or 10/20pps pulse dialing
- Programmable four second pauses
- Selectable fraudulent outbound call blocking
- Telephone line powered
- Can be operated from a dry contact closure
- Eliminates dedicated line charges
- Operates on any standard C.O., PABX or Centrex lines
- Keypad for easy programming

Sales...(715) 386-8861

Made In the U.S.A.

Applications

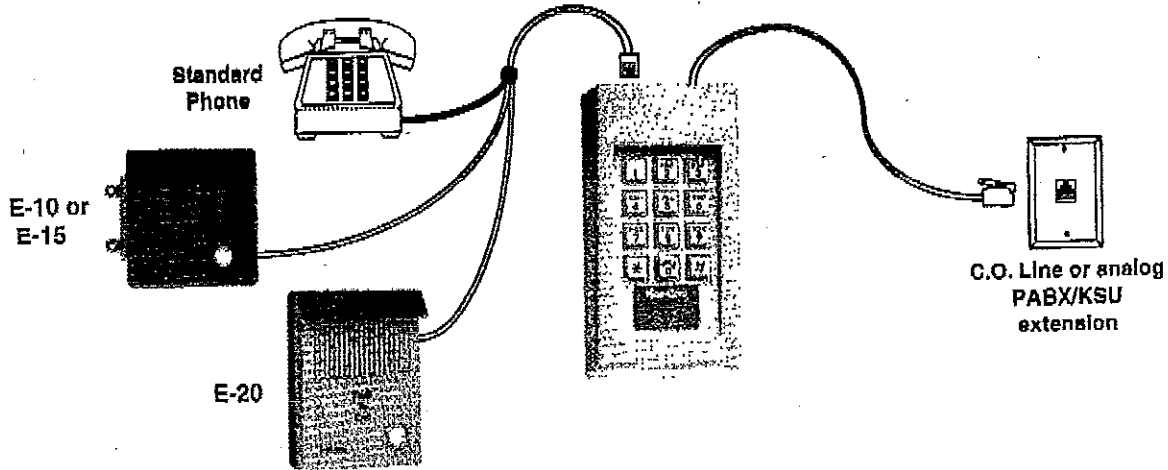
- Replaces leased ring down circuits
- Security and emergency phones
- Elevator phones
- Hotel/motel, airline or rental car reservations
- Automatic long distance (alternate carrier) prefix dialing
- Apartment security
- Catalog sales
- Money machines
- Emergency alarm dialing

Specifications

Power: Telephone line powered (20 VDC/20mA minimum)
 Dimensions: 152mm x 89mm x 45mm (6" x 3.25" x 1.75")
 Shipping Weight: .57 Kg (1.25 lbs)
 Environmental: 0° C to 32° C (32° F to 90° F) with 5% to 95% non-condensing humidity
 Connections: Standard RJ-11 modular jacks
 Battery Back-Up: One year, 9 volt battery provided
 DTMF Dialing Speed: -3dBm, 100msec DTMF tones with 120msec breaks between tones
 Pulse Dialing Speed: Switch selectable 10 or 20pps

Installation

Connect the K-1500-5KB as shown below. *Note: E-10, E-15 and E-20 require a minimum 48V talk battery.*



Programming

A. Programming the Speed Dial Number

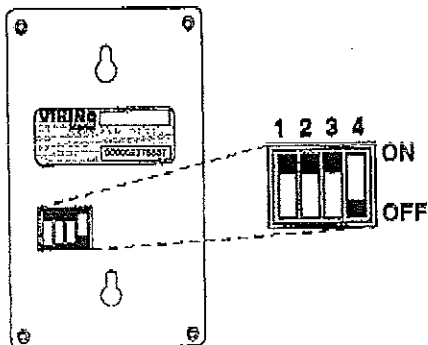
1. Install as shown above, then push and HOLD the * button on the K-1500-5KB key pad.
2. While holding the star button:
 - a. Take the phone connected to the K-1500-5KB off-hook.
 - b. Using the key pad on the K-1500-5KB, enter the number you wish the K-1500-5KB to dial. Use digits 0 - 9 and a # for a four second pause.
3. Hang up the telephone connected to the K-1500-5KB.
4. Release the * key.

*Note: The K-1500-5KB must be specially programmed to dial a Touch Tone * or #. If your application requires dialing a * or a #, retrieve Fax Back Document 306 or contact Viking technical support at (715) 386-8668*

B. Blocking Fraudulent Calls

This feature eliminates Touch Tone phone users from making fraudulent outbound calls. The K-1500-5KB will momentarily hang up upon detection of Touch Tones from the phone. To activate this feature, place dip switch 3 in the ON position and dip switch 4 in the OFF position.

Note: Certain voices may sound like Touch Tones and may create mid conversation disconnection with this feature enabled. If this symptom is present, disable this feature or contact VIKING Technical Support for other methods of handling toll abuse.



| Sw | Position | Function |
|----|----------|---|
| 1 | ON | Tone dialing |
| 1 | OFF | Pulse dialing |
| 2 | ON | 20 pps dialing |
| 2 | OFF | 10 pps dialing |
| 3 | ON | Restricts Touch Tone dialing |
| 3 | OFF | Allows Touch Tone dialing |
| 4 | ON | Touch Tone dialing will stop the K-1500-5KB |
| 4 | OFF | Touch Tone dialing will NOT stop K-1500-5KB |

C. Dialing an Emergency Number After a Specified Time Out

This feature allows Touch Tone phones connected to the K-1500-5KB to be used in a normal fashion. If the phone comes off-hook and no Touch Tones are detected by the K-1500-5KB for the total number of programmed pauses, the K-1500-5KB will dial an emergency number. The dialer can be programmed to pause in any four second increment prior to dialing. Entering a # anywhere in the programmed dialing string will provide a four second pause.

Note: Each four second pause uses one digit of the 18 digit programming capacity.

D. Programming Examples

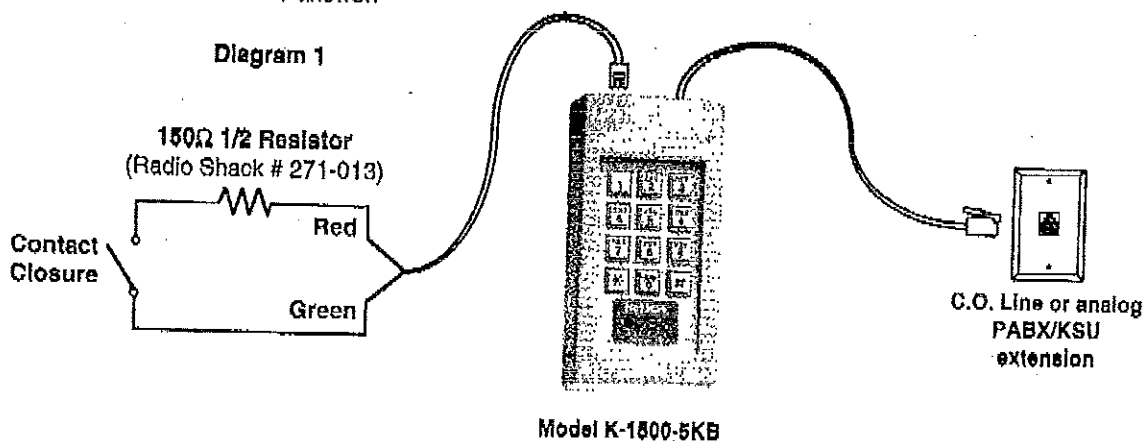
1. Storing 1-715-386-8861 as the programmed number.
 - a. Follow steps 1 - 2 in section A.
 - b. Enter: 1 715 386 8861.
 - c. Hang up the phone.
 - d. Release the * key.
2. Storing a 9, a four second pause then 1-715-386-8861.
 - a. Follow steps 1 - 2 in section A.
 - b. Enter: 9 # 1 715 386 8861.
 - c. Hang up the phone.
 - d. Release the * key.
3. Storing 911 as the programmed number so that, if the phone goes off-hook and no Touch Tones are entered for twelve seconds, the K-1500-5KB will dial 911.
 - a. Follow steps 1 - 2 in section A.
 - b. Enter: # # # 911.
 - c. Hang up the phone.
 - d. Release the * key.

Note: Dip switch 3 must be OFF and dip switch 4 must be ON for this application.

Typical Applications

A. Operating the K-1500-5KB from a Contact Closure

In certain emergency applications, the K-1500-5KB can be used to alert someone that an alarm has occurred. In all applications, the contact closure must be maintained (closed) longer than the time required to dial the number and for the device called to answer.



B. Using the K-1500-5KB to Call a Beeper

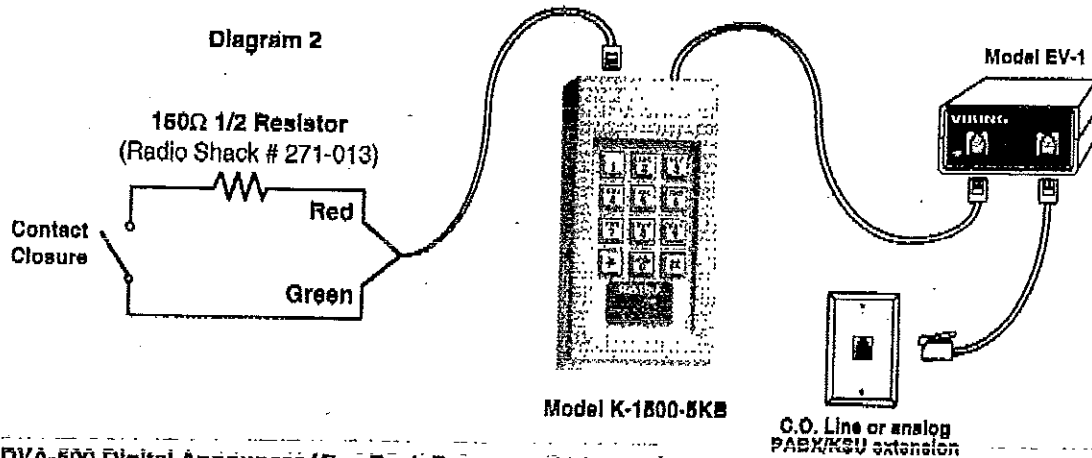
In this application, the installer programs the K-1500-5KB to dial the pager access number, then programs enough four second pauses to allow the paging system to answer followed by an identification code (See Diagram 1 above).

Note: Each four second pause uses one digit of the 18 digit programming capacity.

C. Using the K-1500-5KB in Conjunction with an Announcer to Identify a Calling Location

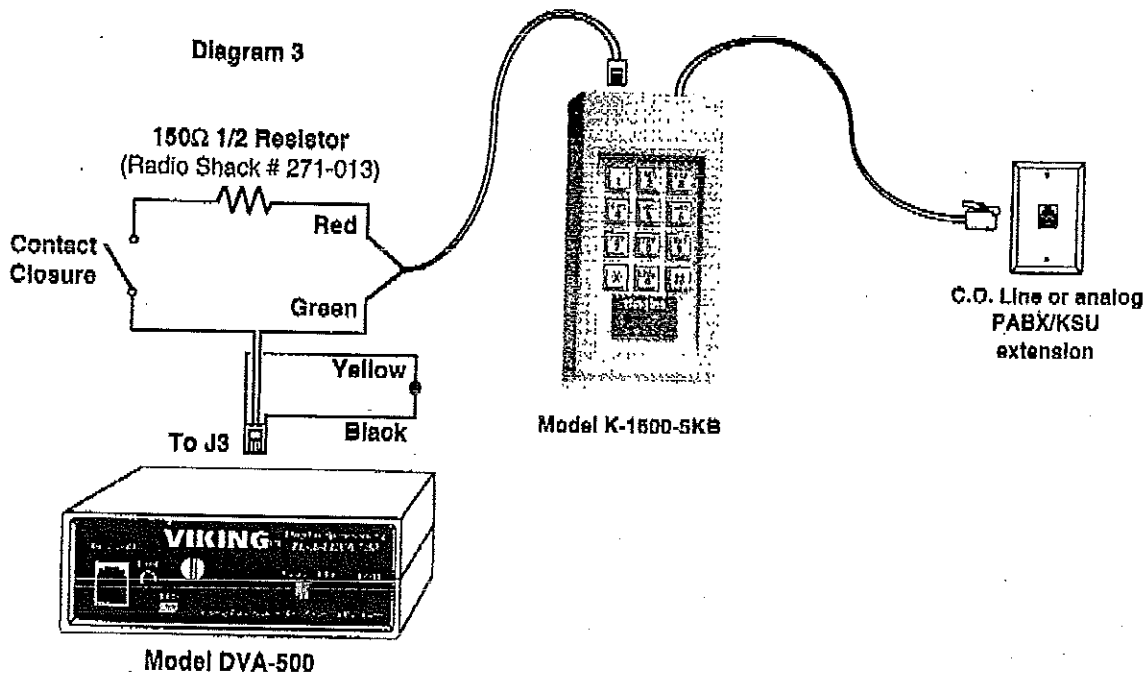
1. EV-1 Emergency Voice Announcer (Fax Back Document 135)

A Viking model EV-1 can be placed in series with the line connected to the K-1500-5KB (See Figure 2) to add an automatic voice identification/alarm message. The EV-1 is capable of recording up to a 10 second message. Example: "Attention, the burglar alarm has been activated at ACME Incorporated. Please contact the authorities." The EV-1's message can be recorded locally or remotely and can be programmed to repeat every 3 or 8 seconds. *Note: When recording the EV-1, do not use the # key to stop the recording. The EV-1 must be allowed to time out.*



2. DVA-500 Digital Announcer (Fax Back Document 115)

If a longer recording is required, a Viking Model DVA-500 may be used (See Figure 3). The DVA-500 comes standard with 16 seconds of digital record time and is expandable to 32 seconds, by installing a Viking DRAM-32 memory expansion kit. When the contact is closed, the DVA-500 seizes the phone line and the K-1500-5KB dials the preprogrammed number. The DVA-500 then repeats the message until the closure is opened.



Product Support Line... (715) 386-8666

Fax Back Line... (715) 386-4345

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VIKING®

Telecommunication Peripheral Products

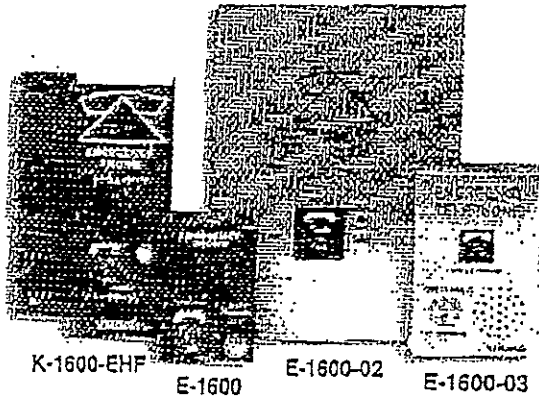
Technical Practice

1600 Series

ADA Compliant
Emergency Phones

October 31, 1997

ADA* Compliant Emergency Phone with Central Station Monitoring Capability



The 1600 series emergency phones are designed to provide quick and reliable handsfree communication over the public switched telephone network. The 1600 series meets ADA* requirements for elevator telephones, and can be programmed from any Touch Tone phone.

The 1600 series can also be used with Central Station Monitoring equipment. All parameters, phone numbers and location numbers are stored in non-volatile E² memory. No batteries or power are required.

<http://www.VikingElectronics.com>

Features

- Handsfree operation
- Phone line powered.
- Non-volatile E² memory (no batteries required)
- Touch Tone or pulse dialing
- Dials a second number on busy or no answer
- Transmits a unique location I.D. code
- "Call Connected" LED for the hearing impaired
- Grade 2 Braille label for the visually impaired
- Hangs up on CPC, silence, busy signal, dial tone, time out or Touch Tone command
- Programmable to auto-answer on incoming calls
- Remotely programmable
- Extended temperature range (-15°F to 130°F)
- 4 chassis to accommodate many applications
- Central Station Monitoring capability
- Weather resistant

Applications

- Elevators
- Parking ramps
- ATM machines
- Area of refuge locations
- Lobbies
- Entryways
- Campus emergency stations
- Roadside emergency stations
- Stadiums
- Convention centers

**Americans with Disabilities Act of 1992 contains new federal regulations regarding elevator telephones (Public Law 101-336).*

Made in the U.S.A.

Sales...(715) 386 - 8861

E-mail...Sales@VikingElectronics.com

Specifications and Installation

Viking offers four available chassis for the 1600 series emergency phones. In addition, the circuitry, button, speaker, etc. are available for custom applications. The following sections (E-1600 - K-1600-EHF) show mounting dimensions chassis specifications.

E-1600

Power: Phone line powered (24VDC talk battery w/20mA loop current minimum)

Dimensions: 133mm x 102mm x 51mm (5.25" x 4.00" x 2")

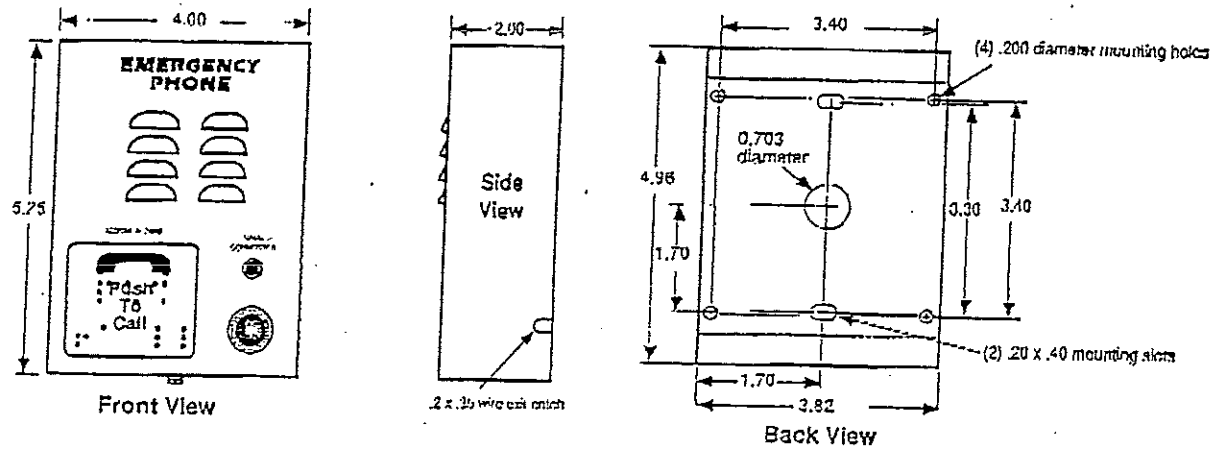
Shipping Weight: 1.13 kg (2.5 lbs.)

Environmental: -26°C to 54°C (-15°F to 130°F) with 5% to 95% non-condensing humidity

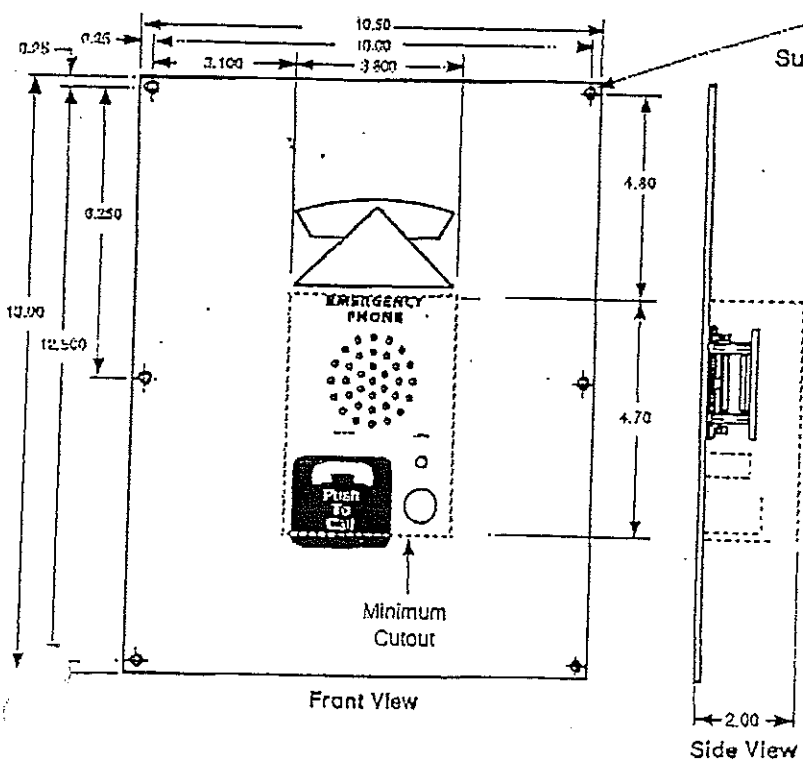
Material: .062 (16 gauge) red powder painted steel

Connections: RJ-11

Mounting: Surface mounted to walls, posts, single gang boxes and 4" x 4" electrical junction boxes or recess mounted in cleavor phone boxes.



E-1600-02



(6) 0.188 diameter countersunk holes

Suggested Screws: (6) #8 x 3/4 flat head phillips sheet metal type A screws (not included)

Power: Phone line powered (24VDC talk battery w/20mA loop current minimum)

Dimensions: 330mm x 267mm x 51mm (13" x 10.5" x 2")

Shipping Weight: 3.18 kg (7 lbs.)

Environmental: -26°C to 54°C (-15°F to 130°F) with 5% to 95% non-condensing humidity

Connections: RJ-11

Material: .125 (11 gauge) brushed stainless steel

Mounting: Flush mounted in cleavor cabinets, ATM machines, stairwells, hallways, etc.

E-1600-03

Power: Phone line powered (24VDC talk battery w/20mA loop current minimum)

Dimensions: 133mm x 102mm x 51mm (5.25" x 4" x 2")

Shipping Weight: 1.36 kg (3 lbs.)

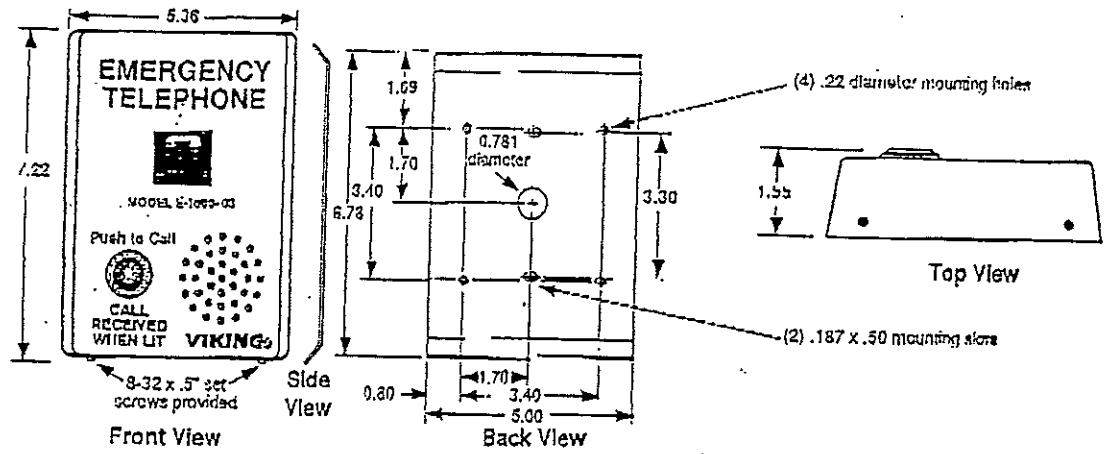
Environmental: -26°C to 54°C (-15°F to 130°F) with 5% to 95% non-condensing humidity

Material: .074 (14 gauge) Brushed stainless steel panel and conformal coated PCB for weather resistance.

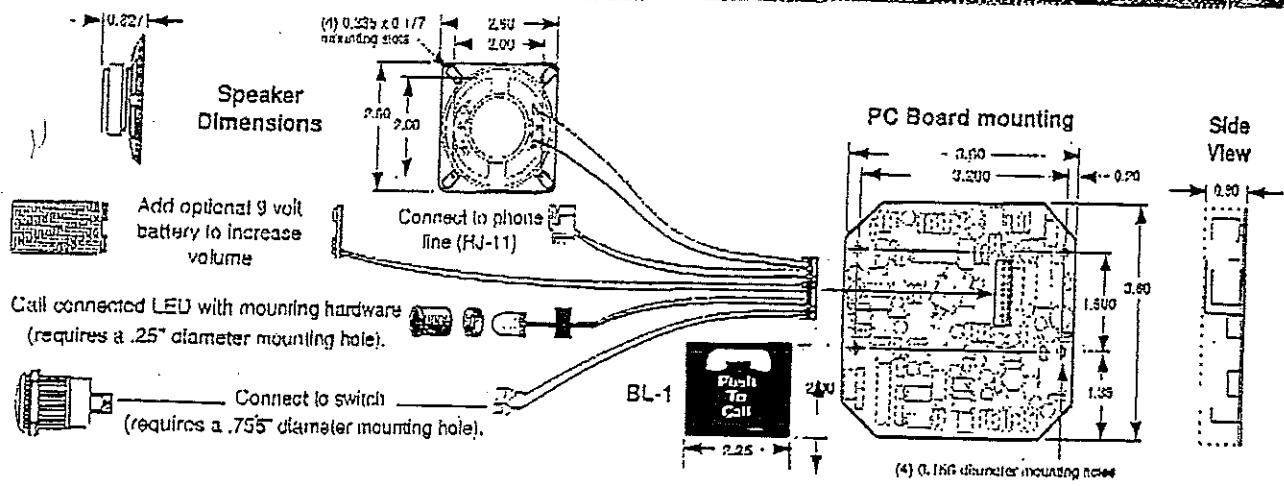
Connections: RJ-11

Mounting: For use in high vandalism areas. Surface mounted to walls, posts, single gang and 4" x 4" electrical junction boxes or recess mounted in elevator phone box.

Note: For greater weather resistance, apply a bead of clear silicon caulking around the top side and edges of the chassis.



E-1600-50



K-1600-EHF

Power: Phone line powered (24VDC talk battery w/20mA loop current minimum)

Dimensions: 251mm x 174mm x 53mm (9.875" x 6.86" x 2.10")

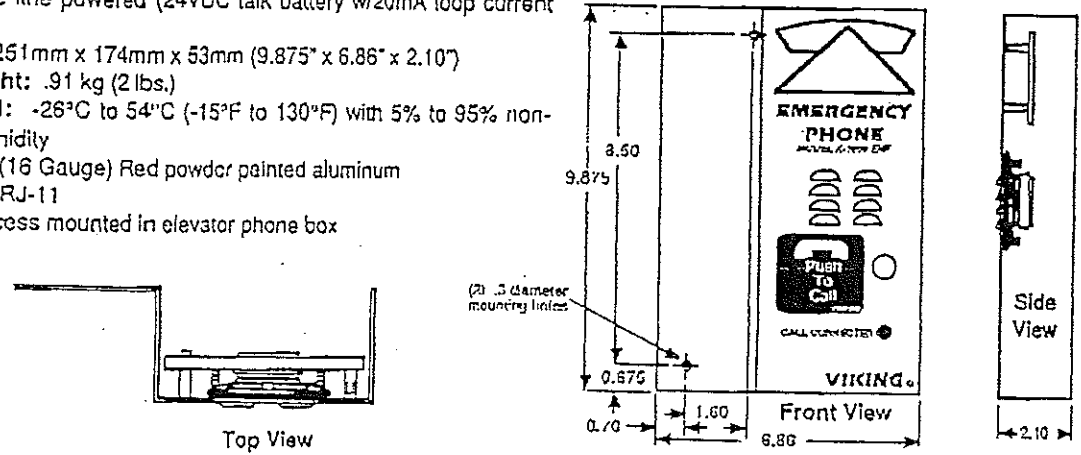
Shipping Weight: .91 kg (2 lbs.)

Environmental: -26°C to 54°C (-15°F to 130°F) with 5% to 95% non-condensing humidity

Material: .062 (16 Gauge) Red powder painted aluminum

Connections: RJ-11

Mounting: Recess mounted in elevator phone box



Programming

1. Accessing the Programming Mode

The 1600 series emergency phones can be programmed from any Touch Tone phone using a C.O. line or analog PABX/KSU station.

Using the Security Code

- Move dip switch 2 to the ON position (see section H)
- From a Touch Tone phone call the line attached to the 1600
- When the 1600 answers, enter the 6-digit security code (see section B).

2. Without a Security Code

- Move dip switch 2 to the ON position (see section H)
- Move dip switch 3 to the OFF position (see section H)
- From a Touch Tone phone call the line attached to the 1600
- When the 1600 answers you will automatically enter the programming mode

Note: If a valid memory position is stored, a double beep will be heard. Four beeps indicate an error in programming.

Important: After programming, be sure that Dip Switch 3 is in the ON position.

Security Code (memory location #19)

The security code allows the user/installer to program the 1600 series while dip switch 3 is in the ON (normal) position. The factory set security code is 845464 (Y-I-K-I-N-G). It is recommended that the factory set security code be changed.

Example: To store 123456 as the security code, enter: 1 2 3 4 5 6 # 1 9

*Note: The security code must be 6 digits and can not include a * or #.*

Primary Speed Dial Number (memory location #00)

The primary speed dial number is the telephone or extension number that is dialed when the Push to Call button is first pressed. To program the primary speed dial number, enter the desired telephone number followed by #00.

| Program: | Enter: |
|-------------------------|------------|
| 0,1,2,...9 | 0,1,2,...9 |
| * | ** |
| # | *# |
| 4 Second Pause | *7 |
| Switch to Pulse Dialing | *6 |

Example: To store 555-1234 as the primary speed dial number, enter: 5 5 5 1 2 3 4 # 0 0

*Note: Up to 20 digits can be stored in the primary speed dial position. Special features such as, pause, mode change, Touch Tone * and # count as single digits.*

Secondary Speed Dial Number (memory location #01)

The secondary speed dial number is the telephone or extension number (up to 20 digits) that is dialed when there is no answer or a busy signal is detected and the second number redial feature is activated. To program the secondary speed dial number, enter the desired telephone number followed by #01.

Example: To store a Touch Tone 9, a four second pause, and then a pulse dialed 333-4444 into the secondary speed dial memory position, enter: 9 *7 *6 3 3 3 4 4 4 4 # 0 1

Identification Number (memory location #20)

The I.D. number (up to 20 digits) is used by emergency personnel to identify the location of the caller and is given out when the receiving party presses a Touch Tone *. The security office can display the number using the DM-4 light monitor (Fax Back Document # 205). To program the I.D. number, enter the desired number followed by #20.

*Note: The identification number can not include a * or #.*

Example: To store 333 as the I.D. number, enter: 3 3 3 # 2 0

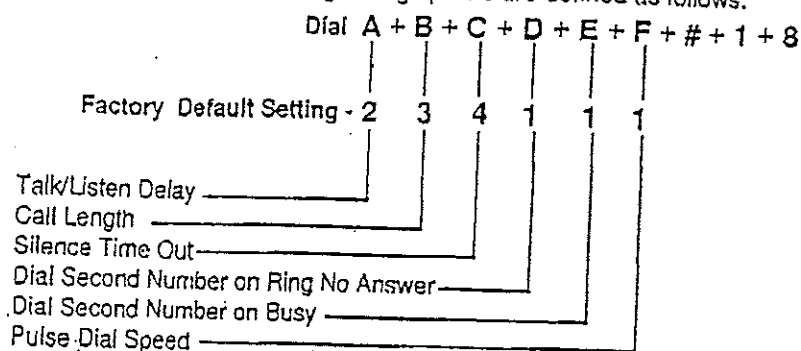
Central Station Monitoring Feature (see "Central Station Software" section)

1600 series emergency phones now have the capability to call directly into central station monitoring receivers.

Example: To enable the Central Station mode, enter * 1 while programming. To disable, enter * 0.

2. Timing/Dialing Options (memory location #18)

There are six positions in the timing/dialing options. To program these options, enter the six desired timing/dialing numbers followed by #18. The six available timing/dialing options are defined as follows:



Setting A - The Talk/Listen Delay:

This feature selects switching time between talk and listen modes (VOX switching time). Programmable in increments of .1 seconds up to a maximum of .9 seconds (Touch Tones 1-9).

Note: The factory default setting is .2 seconds.

Setting B - The Call Length Time Out:

This feature selects the maximum length of time that calls can be connected. Programmable in increments of 1 minute up to a maximum of 9 minutes (Touch Tones 1-9). Program 0 in this location to disable the maximum call length. The 1600 Series Phone must then rely on a CPC signal to hang up.

Note: The factory default setting is 3 minutes.

Setting C - The Silence Time Out:

This feature selects the length of time that calls will remain connected without voice activity. Programmable in increments of 10 seconds up to a maximum of 90 seconds (Touch Tones 1-9). To disable the maximum silence time out, program a 0 in this location.

Note: The factory default setting is 40 seconds.

Setting D - Dial a Second Number on Ring No Answer:

If enabled and a ring-no answer is detected, the 1600 series phone will continue to alternate between the first and second emergency numbers, until a call is completed.

| | |
|---------------------|---|
| <u>Setting</u> | <u>Dial a Second Number</u> |
| 1 or 0 | Disabled |
| 2 | Dial next number after 2 rings |
| 3, 4, 5, 6, 7, 8, 9 | Dial next number after 3, 4, 5, 6, 7, 8, 9 rings respectively |

Note: This feature is disabled in the factory default setting.

Setting E - Dial a Second Number on Busy:

If enabled, and a busy signal is detected, the 1600 Series Phone will continue to alternate between the first and second emergency numbers, until a call is completed.

| | |
|----------------|-----------------|
| <u>Setting</u> | <u>Function</u> |
| 1 | Disabled |
| 2 | Enabled |

Note: This feature is disabled in the factory default setting.

Setting F - Pulse Dialing Rate (Pulses Per Second):

| | |
|----------------|-----------------|
| <u>Setting</u> | <u>Function</u> |
| 1 | 10 PPS |
| 2 | 20 PPS |

Note: The factory default setting is 10 PPS.

Viking Electronics, Inc.

Technical Support
1531 Industrial St.
Hudson, WI 54016

Phone: (715) 386-8666

Fax: (715) 386-4344

Web: <http://www.vikingelectronics.com/techsupport>

CUSTOMER:

JERSEY ELEVATOR
RAY
657 LINE RD
ABERDEN, NJ 07747
CONTACT:

RECEIVED DATE: 10/26/2004
RECEIVED VIA: F
ACTION: REP
SERIAL #: 2494255

PHONE: 732-290-2991
RMA #: 803647
MODEL #: K-1600-EHF

REASON FOR RETURN:

SERVICE DEPT ANALYSIS:

Lightning Damage Physical damage Not Repairable
 No Trouble Found Trouble Found Scrapped

SPECIAL NOTES:

*Reset all switches & programming
to factory settings.*

REPAIR WORK:

Tested unit to specs.

Viking Electronics Service Warranty:

Viking Electronics, Inc. warrants all repair labor, performed by Viking Product Support personnel, to be satisfactory for a period of 90 days from the date of repair. Viking Electronics, Inc. also warrants all parts, installed by Viking Product Support personnel, to be free from defect for a period of one year from date of installation. This warranty does not cover tapes, batteries, abuse, neglect, or abnormal wear and tear. Viking Electronics, Inc. does not make any warranty or guarantee, expressed or implied with respect to any other parts or accessories that may become necessary due to defective parts, other than those installed in the original equipment. All other warranties are void where they conflict with this warranty. Viking Electronics, Inc. warrants separately.

** Note: For programming help,
call (715) 386-8666
and ask for Keith.*

DATE REPAIRED: 10-28-04
REPAIRED BY: KF

Total
Total
Total Se.

1st version

VIKING

Viking Electronics, Inc.
1531 Industrial Street
Hudson, WI 54016

Telecommunication Peripheral Products

SALES LINE: 715-386-8861

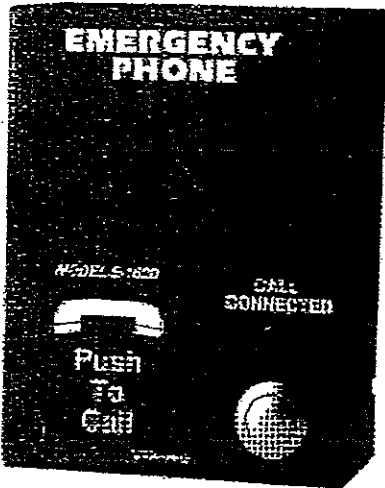
Technical Practice

ITEM: ADA Vandal Resistant
Emergency Phone

MODEL: E-1600

ISSUE: October 1994

A.D.A.* COMPLIANT PHONE with auto dialer



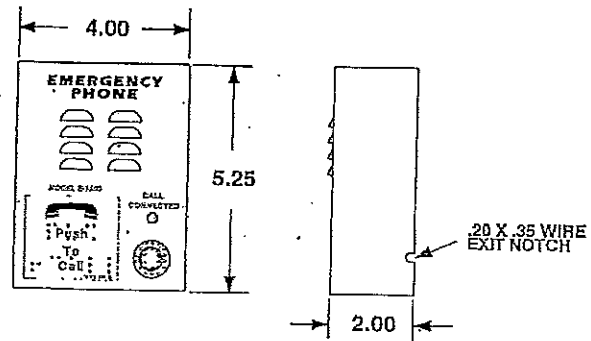
- Fits in elevator phone box, surface mounts, and also mounts on standard junction & single gang electrical boxes
- Vandal-resistant steel chassis with S.S. switch
- Hands-free operation.
- Phone line-powered.
- Non-volatile memory -- no battery required.
- Touch Tone or pulse dialing.
- Dials a second number on busy or no answer.
- Transmits a unique location I.D. code.
- "Call Connected" LED for the hearing impaired.
- Grade 2 braille label for the visually impaired.
- Hangs up on silence, busy, dial tone, time-out.
- Can receive incoming calls, if desired.
- Add loud volume option for noisy areas.
- Program remotely from a Touch Tone phone.

Viking Electronics' E-1600 Emergency phone is designed to provide quick and reliable access to emergency personnel via two-way hands-free voice communication over the public switched telephone network. Model E-1600 meets ADA* requirements for elevator telephones.

The E-1600 can be programmed from any Touch-Tone phone. All parameters, phone and location numbers are stored in non-volatile E² prom memory. No batteries are required for memory retention.

When the "Push To Call" button is pressed, the E-1600 seizes the phone line, and the built-in dialer calls the pre-programmed 1 to 20 digit number. The "Call Connected" LED flashes during tone or pulse dialing. In the event that the line is busy or there is no answer, the unit can call a second number. When the call is answered, the distant party dials a Touch Tone '*'. This causes the E-1600 to light the "Call Connected" LED steady and send a field-programmed 1 to 20 digit Touch Tone number indicating the location of the emergency phone. The distant party can decode the location number using a Viking Model DM-4 Digit Monitor. Where required, a Viking Model EV-1 Emergency Voice Announcer can be installed to provide up to 10 seconds of natural voice announcement.

DIMENSIONS:



POWER: Phone line-powered (Min. Loop Current: 20 mA)
WEIGHT: 2 Lbs. (shipping)
CONNECTION: Standard RJ-11 jack
MOUNTING: Surface mount chassis to wall, post, single gang box or 4" x 4" junction type electrical box (see Installation page 6).
ENVIRONMENTAL: 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing relative humidity.

* Americans with Disabilities Act of 1992 contains new federal regulations regarding elevator telephones (Public Law 101-336).

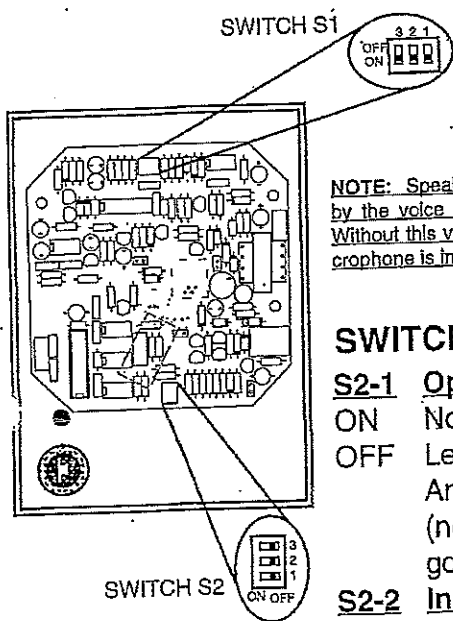
Made In The U.S.A.

I. GENERAL

Model E-1600 is a handsfree emergency phone which meets ADA requirements. When the call button is pressed, it activates the dialer (built into the unit) and dials the pre-programmed speed dial number. The E-1600 can be programmed to dial a second phone number if the first number is busy or unanswered. The E-1600 will alternate between the two pre-programmed numbers until answered. Once communication has been established, an identifier code can be sent by the E-1600 to tell which location is calling. A LED can be lit on the front of the E-1600 to show that communication has been established and help is on the way. A 9V battery (not included) may be added to increase speaker volume for noisy areas.

II. DIP SWITCH PROGRAMMING

Remove the allen head set screw (with wrench provided) on the bottom of the E-1600 and take off the front cover.



NOTE: Speaker/Microphone is controlled by the voice activity of the distant party. Without this voice activity the Speaker/Microphone is in the Microphone mode.

SWITCH "S1"

S1-1 Speaker Sensitivity Adjustment (VOX)

- ON Decrease sensitivity
- OFF Normal setting

S1-2 Microphone Adjustment (Volume)

- ON Low setting (-6db)
- OFF Normal setting

S1-3 Front Panel Push Button Switch

- ON Button alternately connects and disconnects calls
- OFF Button only connects calls

SWITCH "S2"

S2-1 Operating Mode

- ON Normal operation mode
- OFF Learn mode

An incoming call is automatically put into the programming mode (no security code required). Only use this option if you have forgotten your security code.

S2-2 Incoming Call Select

- ON Incoming calls are answered
- OFF Incoming calls are not answered

S2-3 Pulse Dialing Rate

- ON Fast pulse dialing, 20 PPS
- OFF Slow pulse dialing, 10 PPS

III. PROGRAMMING OPTIONS FOR THE E-1600

1. **Security Code (Mem. Pos. "#19")** –A 6 digit number which must be entered prior to programming, while the S2-1 dip switch is in the ON position. The factory-set security code is "VIKING" (845464). **NOTE:** The security code must be 6 digits long using numbers 1-9.
2. **The First Speed Dial Number (Mem. Pos. "#00")** –The telephone or extension number (up to 20 digits) dialed when the "call" button is pressed.
3. **The Second Speed Dial Number (Mem. Pos. "#01")** –The telephone or extension number (up to 20 digits) dialed when there is NO ANSWER or a BUSY SIGNAL is detected.

IV. PROGRAMMING THE E-1600

TIP: The E-1600 can be programmed from any Touch Tone phone; however, it may be more convenient to program the unit in your own shop with VIKING's DLE-200A Ringdown Circuit or HD-1 DTMF Dialer (with optional PS-1A installed).

1. Connect the E-1600 to a PABX line or VIKING's DLE-200A using the RJ-11 modular plug located on the back of the unit. Be sure that the S2-2 dip switch is in the ON position. **NOTE:** If the S2-2 dip switch is NOT in the ON position, the unit will NOT answer incoming calls.
2. Dial the PABX line that the E-1600 is connected to from a Touch Tone phone.
 - A. If dip switch S2-1 is in the ON position (normal operation mode), you must enter the 6 digit security code number (factory set code 845464). If you have entered the correct number, you will hear a double beep tone indicating that you are in the programming mode.
 - B. If dip switch S2-1 is in the OFF position (programming mode), you will automatically hear the double beep tone when you dial the unit. This indicates that you are in the programming mode.
3. Begin programming by first entering your speed dial number followed by a function code (see table and example below). **NOTE:** If more than 20 seconds elapse between Touch-Tones while in the programming mode, the E-1600 will disconnect. Upon disconnection, return to Programming, Step 2 above.

TO ENTER THE FOLLOWING:

0,1,2.....9 (Touch-Tone or Pulse dialing)
* (Touch Tone only)
(Touch Tone only)
4-second pause
Switch to pulse dialing

PRESS

0,1,2.....9
**
* #
* 7
* 6

FUNCTION

Program the first speed dial number in Touch Tones
Program the second speed dial number in Touch Tones
Program speed dial numbers to pulse dial
Program time delays, dialing options
Program elevator location I.D. code
Program a new security code

ENTER FUNCTION CODE

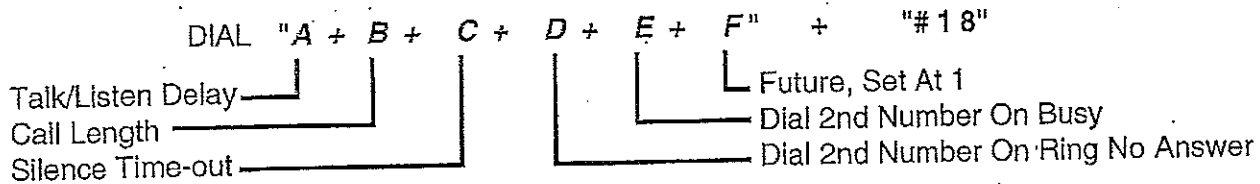
1 to 20 digit number + "# 00"
1 to 20 digit number + "# 01"
"* 6"+ 1 to 19 digit number + "#00" or "#01"
6 digit code + "# 18"
1 to 20 digit code + "# 20"
6 digit code + "# 19"

It is recommended that you change the security code from the "845464" factory setting to your own personal 6 digit number.

EXAMPLE: To store the number 362-1900 in the speed dial memory position, enter:
3621900 #00

- A. A double beep tone will be heard after storing a valid memory position. If an invalid command or number sequence is entered, it will be indicated by four beep tones. A valid command will be acknowledged with three beeps.

4. **Identification Number (Mem. Pos. "# 20")** - The I.D. number (up to 20 digits) used by security personnel to identify the location of the caller.
NOTE: In order to display the I.D. number, your security office will need a digit monitor such as VIKING's DM-4.
5. **Timing Delays/Dial Second Number Enable (Mem. Pos. "#18")** -The parameters (A-F below) that are user programmable. To program these parameters:



Setting A— Talk/Listen Delay: Selects switching time between "Talk" and "Listen" modes (VOX switching time). Programmable in increments of .1 seconds up to a maximum of .9 seconds (Touch Tones 1-9). **NOTE: Factory default setting is .2 seconds.**

Setting B— Call Length: Selects the length of time that calls will be connected. Programmable in increments of 1 minute up to a maximum of 9 minutes (Touch Tones 1-9). **NOTE: Factory default setting is 3 minutes.**

Setting C— Silence Time-Out: Selects the length of time that calls will remain connected without voice activity. Programmable in increments of 10 seconds up to a maximum of 90 seconds (Touch Tones 1-9). **NOTE: Factory default setting is 40 seconds.**

Setting D— Dial A Second Number On Ring No Answer: Selects the number of unanswered rings that will be allowed before a second emergency number is called. **NOTE: This feature is disabled in the factory default setting.**

| SETTING | DIAL A SECOND NUMBER |
|---------------|--|
| 1 | Disabled |
| 2 | After 4 rings |
| 3,4,5,6,7,8,9 | After 5,6,7,8,9,10,11 rings respectively |

Setting E— Dial A Second Number On Busy: If enabled, the E-1600 will continue to alternate between the 1st and 2nd emergency numbers, when busy, until one is answered. **NOTE: This feature is disabled in the factory default setting.**

| SETTING | FUNCTION |
|---------|----------|
| 1 | Disabled |
| 2 | Enabled |

Setting F— Future: This unused setting should be programmed to 1.

- B. To clear a number previously stored in a memory position, enter the function code without entering any prior digits.

EXAMPLE: To clear the phone number from the redial function, enter: #01.

IMPORTANT: After programming, be sure that the S2-1 dip switch is in the ON position (normal operation mode).

V. PROGRAMMING EXAMPLES

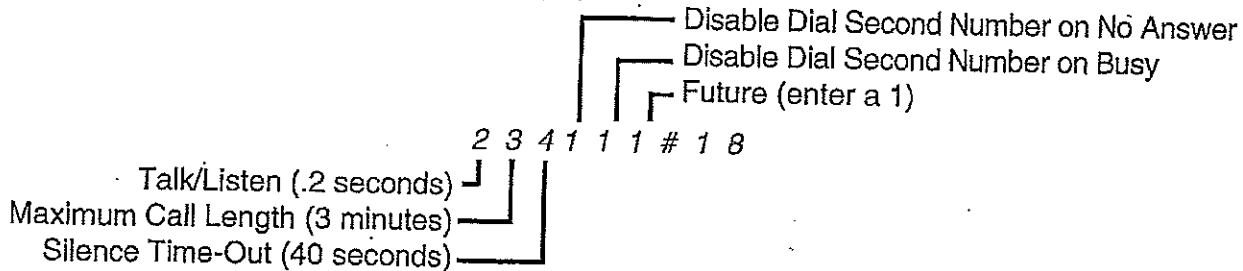
1. To store the phone number 362-1900 into the first SPEED DIAL memory position, enter:
3621900 #00

If the E-1600 is installed behind a PBX which requires 9 plus a pause for outside line, you would enter:

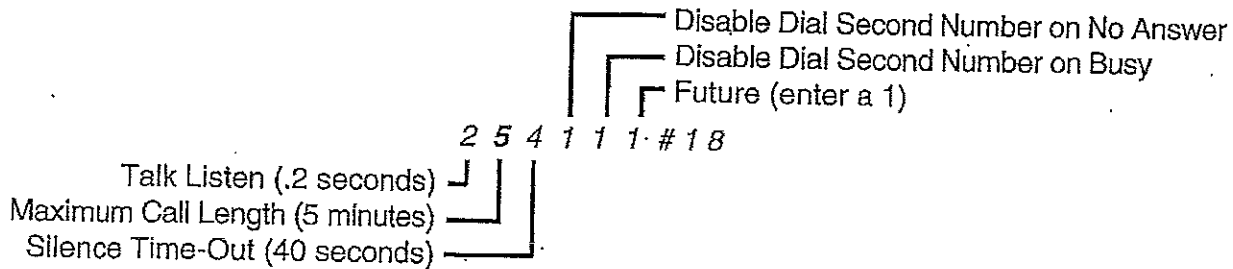
9 * 7 3621900 #00
└─ *7=4 Second Pause

2. To store "9999999999" into the I.D. memory position, enter:
9999999999 #20

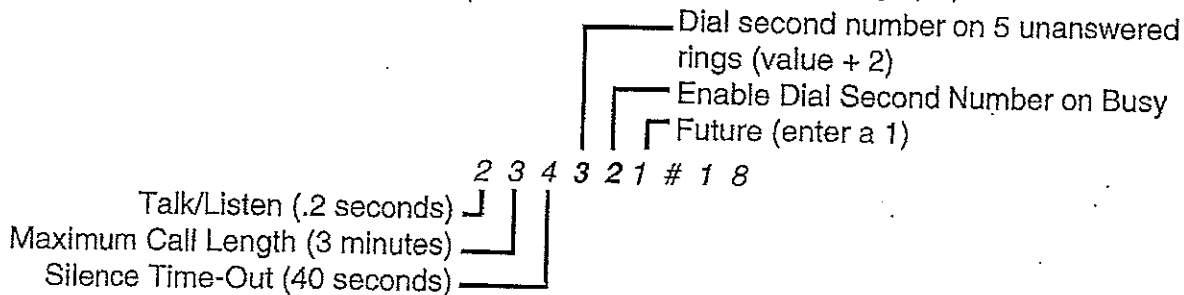
3. Factory Time Delays/Redial (18)



4. To change the Maximum Call Length parameter to 5 minutes: (18)



5. To enable second number dialing on no answer and busy: (18)



B. To clear a number previously stored in a memory position, enter the function code without entering any prior digits.

EXAMPLE: To clear the phone number from the redial function, enter: #01.

IMPORTANT: After programming, be sure that the S2-1 dip switch is in the ON position (normal operation mode).

V. PROGRAMMING EXAMPLES

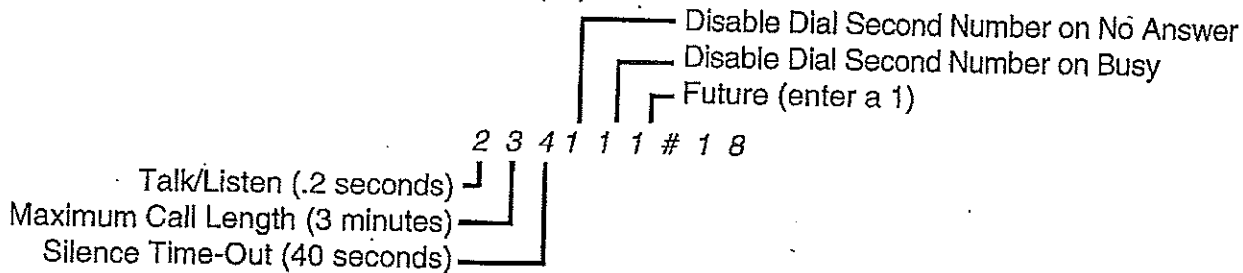
1. To store the phone number 362-1900 into the first SPEED DIAL memory position, enter:
3621900 #00

If the E-1600 is installed behind a PBX which requires 9 plus a pause for outside line, you would enter:

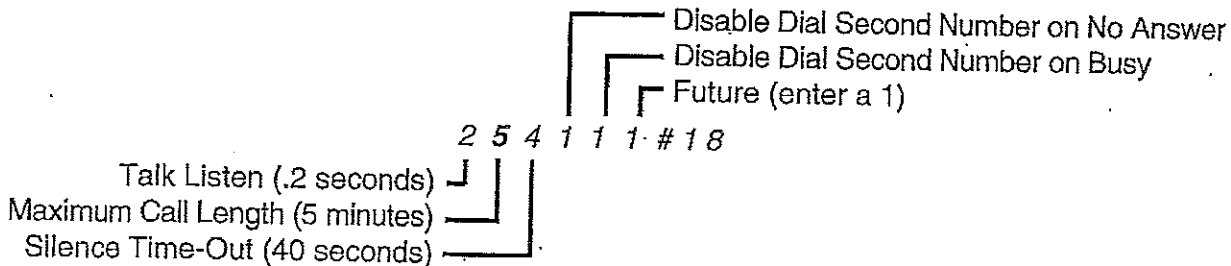
9 * 7 3621900 #00
└─ *7=4 Second Pause

2. To store "9999999999" into the I.D. memory position, enter:
9999999999 #20

3. Factory Time Delays/Redial (18)



4. To change the Maximum Call Length parameter to 5 minutes: (18)



5. To enable second number dialing on no answer and busy: (18)

