Emergency Phone Programming Instructions

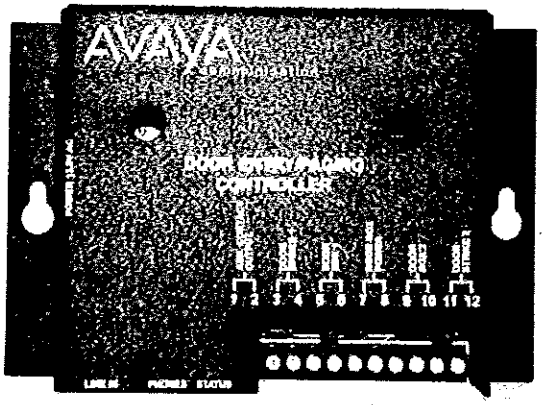
INSTALLED BY BLDG SUPER!

BURNT TAVERN CONV CTR

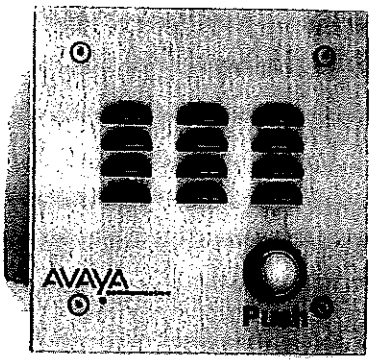
Universal Door Phone System

Material Code/Comcode # 408466563 (controller) and # 408466548 (speaker) PEC # 5324-001

Add Door Phones to Your Phone System



The Door Entry Controller system dramatically expands the potential installation sites for door phone speakers. In addition, the Door Entry Controller provides two Touch Tone controlled relays to operate door strikes or gate openers.



Door phone speakers can be used on single line, residential or home office applications as well as on fully loaded systems, because they are no longer limited to installation on unused trunk ports.

Features

- Universal connection to door phone system limited to ground/loop start trunk connection
- May be used with door phones, PABX systems, Electronic key systems, 1A2 Key systems or single line telephones
- Custom ringing mode distinguishes door phone calls from C.O. calls
- Call waiting tones indicate which door phone is calling and distinguish a door phone call from a C.O. line call
- Calls can be placed on hold when visitors call from the door phone
- Provides two Touch Tone controlled N.O. and N.C. dry contact closures for door strikes or gate openers
- Allows two door phones to share a single telephone line with a residential or business telephone system
- Built-in talk battery for no C.O. applications
- Auxiliary contact output for doorbells, cameras, etc.
- Compatible with pulse or Touch Tone phones

Applications

- Provide commercial or residential security via two-way handsfree communication from a door or gate
- Add one or two door phone speakers to your home or office phones

Specifications

LUUDS Door Entry Controller

Power: 120V AC/13.8V AC 1.25A, UL listed adapter provided
Dimensions: 133mm x 89mm x 44mm (5.25" x 3.5" x 1.75")
Shipping Weight: 0.9 kg (2 lbs)
Environmental: 0° C to 32° C (32° F to 90° F) with 5% to 95% non-condensing humidity
Door Strike Relay Contacts: 5A @ 30V DC/250V AC maximum
Auxiliary Relay Contacts: .5A @ 125V AC, 1A @ 30V AC
Connections: (2) RJ11 jacks, (1) 12 position terminal block
Pulse Dialing Detection: 10 pps
Talk Battery: 30V DC

LUUDS Door Phone Speaker

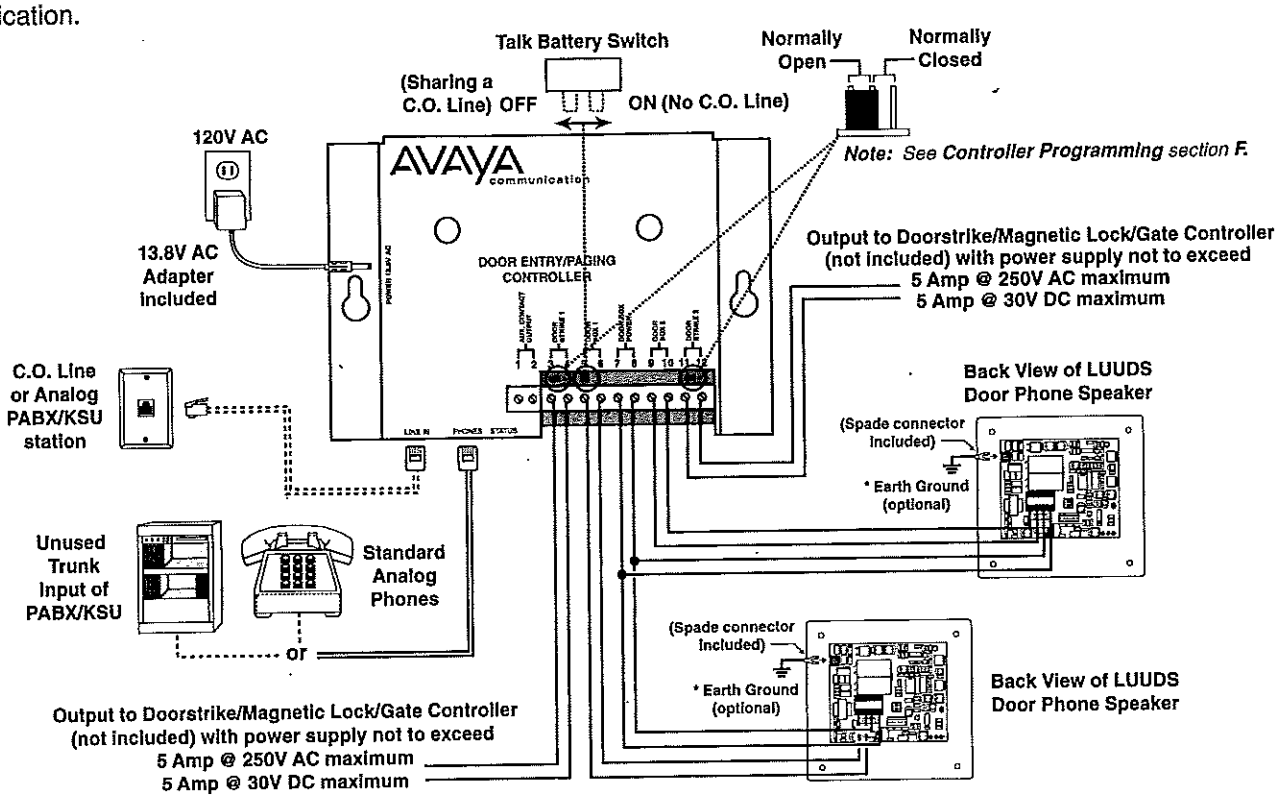
Power: 120V AC/13.8V AC 1.25A UL listed adapter provided
Dimensions: 127mm x 127mm x 57mm (5.0" x 5.0" x 2.25")
Shipping Weight: 1.36 kg (3 lbs)
Environmental: -26° C to 54° C (-15° F to 130° F) with 5% to
Ringer Output: 3.0 REN maximum, 20Hz
Ring Cadence: 1 second ON, 3 seconds OFF
Maximum Loop Length: 1.9 Km (6300 ft) - 24 AWG twisted pair
Maximum Power Run: 45.7 m (150 ft) - 24 AWG twisted pair
Speaker Volume: Approximately 70db maximum @ 1m
Connections: (1) 4-position terminal block
Power Supply Length: 100 ft, 24 awg wire

www.avaya.com

Door Entry Controller Installation

A. Standard Connection: Connecting Door Phone Speakers with or without a C.O. Line

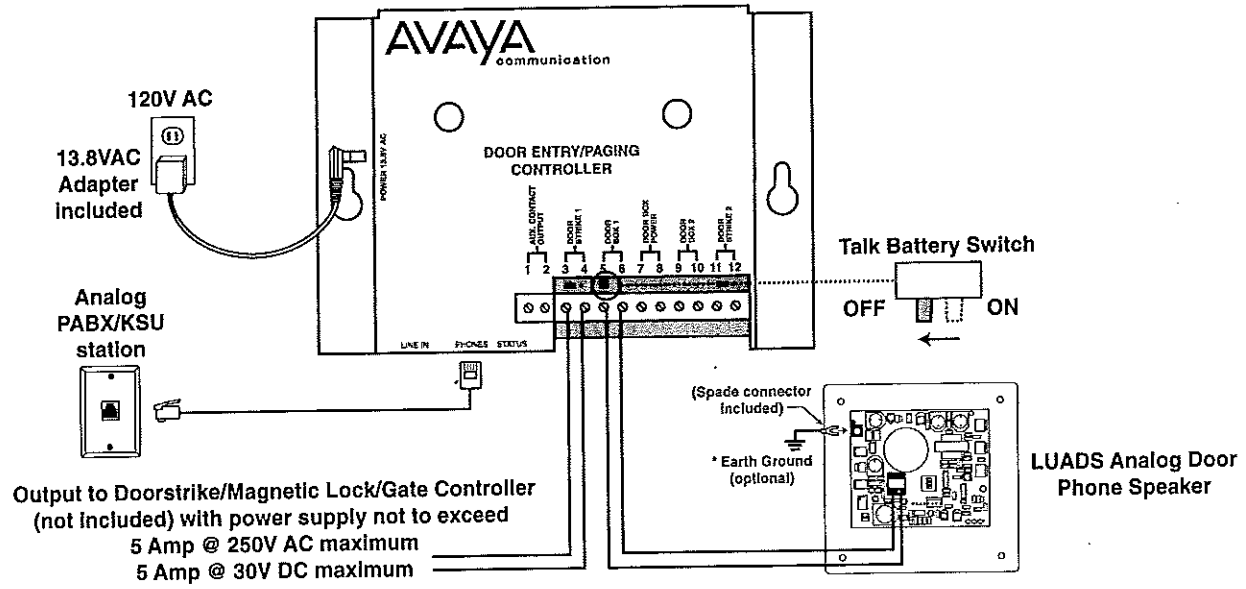
The **Door Entry Controller** can be used without a C.O. line. This is ideal for connecting the **Door Entry Controller** to an unused trunk/line input of your phone system or connecting to phones used only for door phone speaker communication.



** **Note:** To increase surge protection, loosen the PCB mounting screw labeled ⏚ (as shown above) and fasten a wire with spade terminal (included) from the mounting screw to Earth Ground (grounding rod, water pipe, etc.)*

B. Optional Connection: Connecting an LUADS Analog Door Phone Speaker to a Station Port

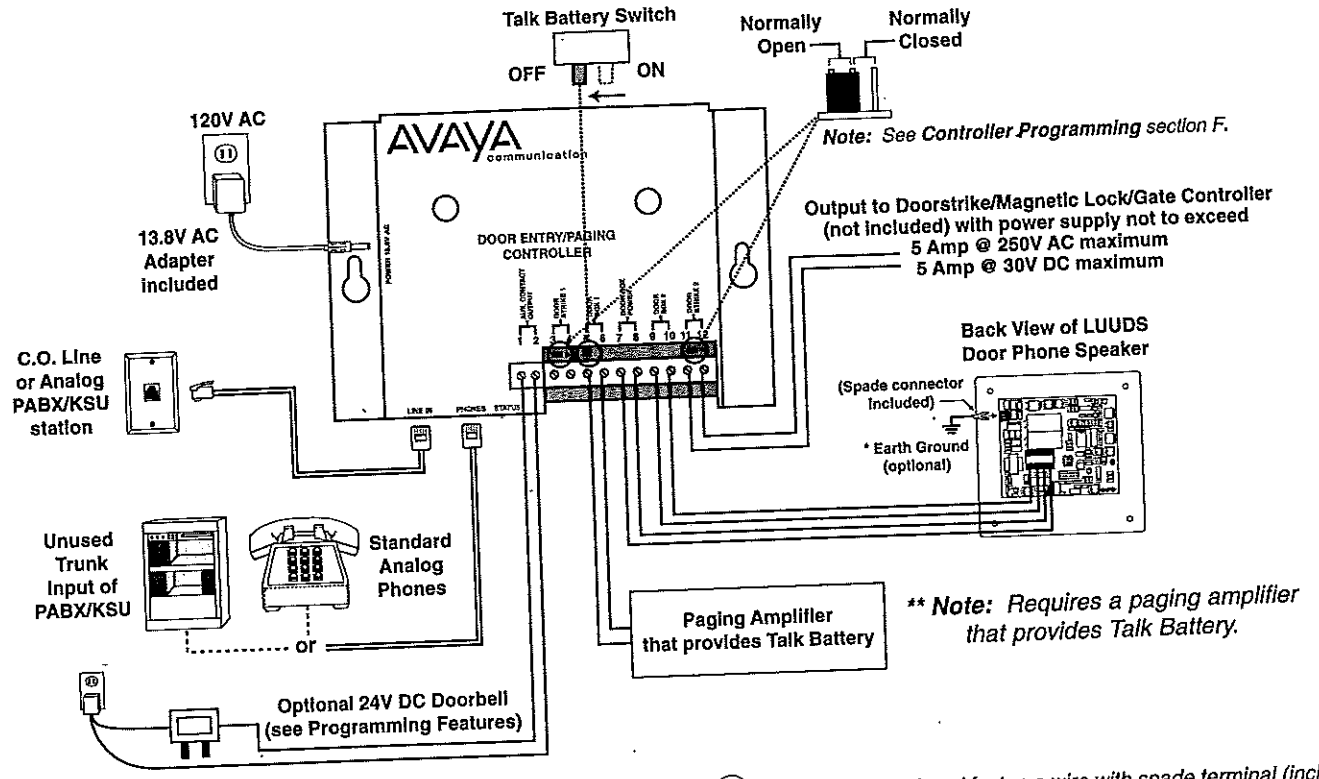
This application is ideal for connecting the **Door Entry Controller** to an unused analog station of your phone system. See **Controller Programming** section **F** and **Operation** section **A**. ***Important:** In this application, only a single door phone is used and ∗5 must be selected when in programming.*



** **Note:** To increase surge protection, loosen the PCB mounting screw labeled ⏚ (as shown above) and fasten a wire with spade terminal (included) from the mounting screw to Earth Ground (grounding rod, water pipe, etc.)*

C. Optional Connection: Adding Paging** to Homes and Small Businesses

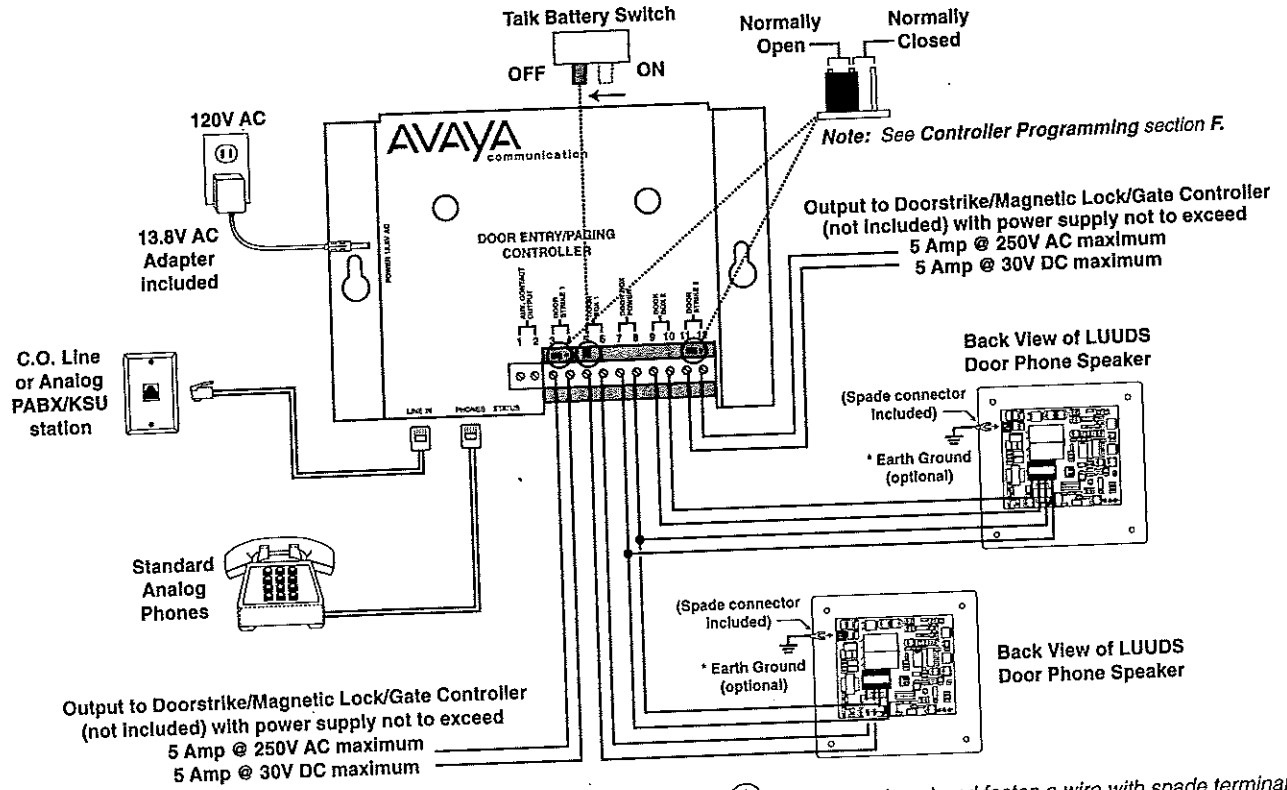
The **Door Entry Controller** can be used to control a paging amplifier and a door phone speaker (or second amplifier) from a single phone line. The amplifier used, must provide talk battery. ***Note:*** *The* ***Door Entry Controller*** *must be programmed to be in the* ***Paging Mode*** *(see* ***Programming****).*



** ***Note:*** *Requires a paging amplifier that provides Talk Battery.*

* ***Note:*** *To increase surge protection, loosen the PCB mounting screw labeled* ⏚ *(as shown above) and fasten a wire with spade terminal (included) from the mounting screw to Earth Ground (grounding rod, water pipe, etc.)*

D. Optional Connection: One or Two Door Phones Sharing a Single Line with House Phones



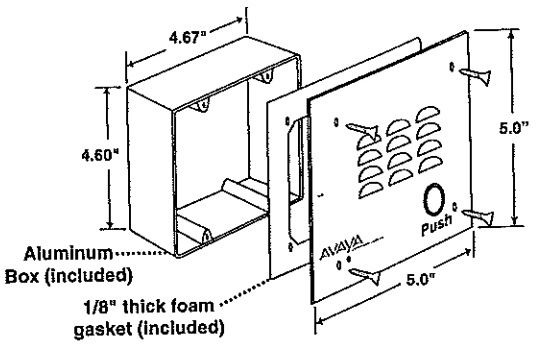
* ***Note:*** *To increase surge protection, loosen the PCB mounting screw labeled* ⏚ *(as shown above) and fasten a wire with spade terminal (included) from the mounting screw to Earth Ground (grounding rod, water pipe, etc.)*

Door Phone Speaker Installation

Designed to be flush mounted to the included 4.6" x 4.6" x 2" deep aluminum box.

Note: *Must use new box. Do* ***NOT*** *use box from previous PARTNER Door Phone.*

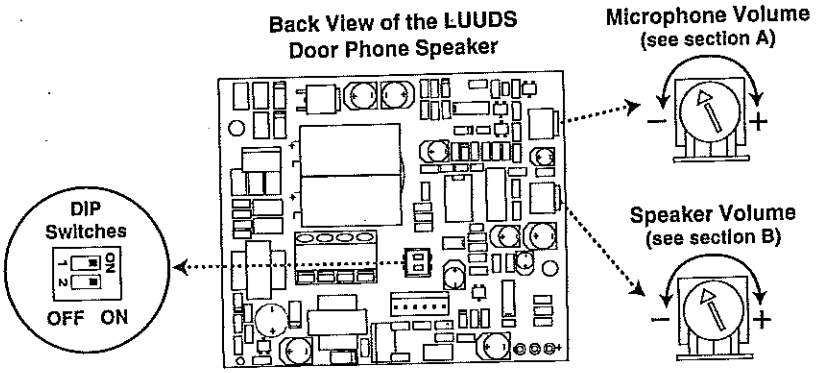
⚠ ***IMPORTANT:*** *Electronic devices are susceptible to lightning and power station electrical surges from both the AC outlet and the telephone line. It is recommended that a surge protector be installed to protect against such surges.*



Door Phone Speaker Programming

A. Microphone Volume

In certain noisy locations (background traffic, machinery or wind), the microphone volume may need to be decreased. A symptom of this is one-way talk path, in which the distant party cannot be heard over the speaker. A "**MIC VOL**" adjustment is provided on the LUUDS Door Phone for increasing or decreasing the microphone volume. ***Note:*** *If the microphone volume is set too high or too low, one-way talk path may occur.*



B. Speaker Volume

The **SPKR VOL** pot can be adjusted to increase or decrease the speaker volume to the level desired as shown above.

C. Maximum Number of Rings

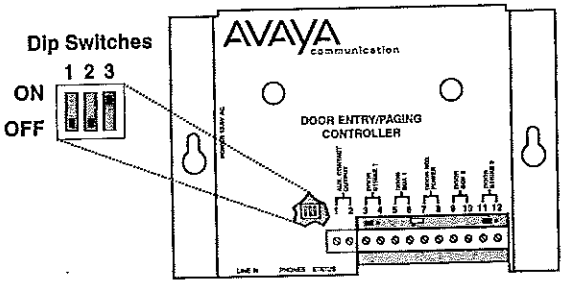
The maximum number of rings can be adjusted using the DIP switches. Use the chart at the right to adjust the maximum number of rings.

Sw 1	Sw 2	Maximum Rings
OFF	OFF	2 Ring
ON	OFF	3 Rings
OFF	ON	10 Rings
ON	ON	30 Rings

Door Entry Controller Programming

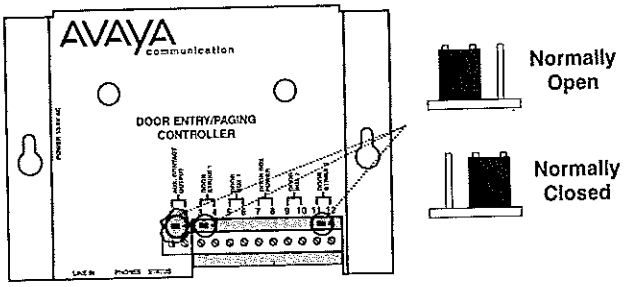
A. Dip Switch Programming

Switch	Description	Operation
1	Doorstrike Activation Time	**OFF** - .5 seconds (factory setting) **ON** - 10 seconds
2	Security Code Bypass Mode	**OFF** - Normal Mode (factory setting) **ON** - Security Code Bypass Mode
3	Mode Selection	**OFF** - Line Concentrator Mode **ON** - Normal Operation (factory setting)



B. N.O./N.C. Contact Selection

Selection shunts are provided for each door strike relay and the auxiliary relay. Place the shunt in the left position for normally open contacts, or in the right position for normally closed contacts. These shunts are located directly above the terminal block positions that they control.



C. Accessing the Programming Mode

1. Accessing the Programming Mode Locally (Security Code Bypass Mode)

a. Move DIP switch 2 from OFF to ON (see **Programming** section **A**).
b. Call into the Door Entry Controller from a Touch Tone phone. ***Note:*** *Call in from another line to avoid busy signals, etc.*
c. Answer the call using the device on the "**PHONES**" port.
d. A double beep will indicate that you have accessed the programming mode.
e. You can now Touch Tone program the features listed in section **D**.
f. When finished programming, move DIP switch 2 to the OFF position.

Note: *Programming from a cell-phone may not be suitable in areas with weak coverage.*

2. Accessing the Programming Mode Remotely

a. Call into the **Door Entry Controller** from a Touch Tone phone. ***Note:*** *Call in from another line to avoid C.O. busy signals,etc.*
b. Answer the call using the device on the "**PHONES**" port.
c. From either phone enter ✻ followed by the six digit security code (see **Programming** section **E**).
d. A double beep will indicate that you have accessed the programming mode.
e. You can now Touch Tone program the features listed in section **D** below.

Note: *Programming from a cell-phone may not be suitable in areas with weak coverage.*

D. Quick Programming Features

	Enter Digits	- then -	Memory Location
Door strike 1 activation time .5 - 10 seconds (see "**Note**" below)	**2 digits** (00-10)	+	**#01**
Door strike 2 activation time .5 - 10 seconds (see "**Note**" below)	**2 digits** (00-10)	+	**#02**
Auxiliary contact activation time .5 - 10 seconds (see "**Note**" below)	**2 digits** (00-10)	+	**#03**
Note: 00 = .5 seconds, 01-10 = 1-10 seconds, factory set to 00 (.5 seconds).			
Auxiliary contact latched while either door phone speaker is activated	**11**	+	**#03**
Auxiliary contact activated in custom ring cadence	**12**	+	**#03**
Security Code (factory set to 845464)	**6 digits** (0-9)	+	**#47**
Disable all special modes listed below (factory default)	✻**0**		
Doorbell mode	✻**1**		
Custom ring mode	✻**2**		
Multiple relay activation mode	✻**3**		
Paging mode	✻**4**		
Emergency phone mode	✻**5**		
Inhibit latching commands mode	✻**6**		
To reset to factory settings	**###**		

Note: *Multiple modes may be selected.*

E. Security Code

This six digit number can be used to access the programming mode. The security code has been factory set to **845464**. It is recommended that you change the security code to a personal 6 digit number. To change the security code, access programming (see **Programming** section **C**). Enter six digits 0-9 followed by **#47**. If you have forgotten your security code, follow the steps in **Programming** section **C, 1. Accessing the Programming Mode Locally**. ***Note:*** *The security code must be six digits in length and can NOT contain a ✻ or #.*

F. Mode Descriptions

Entering these codes while in programming will switch the Door Entry Controller into the corresponding mode.

Disable Special Modes (✻0): This command disables (clears) all the special modes listed below. Enter this command before programming the rest of the selections to be sure no unwanted modes are set.

Doorbell Mode (✻1): In this mode, the ring signal from either door phone speaker is prevented from going through to the "PHONES" port. This is useful when a conventional door bell is connected to the auxiliary contacts. Now when someone activates a door phone speaker, the doorbell will chime rather than the phone ringing.

Custom Ring Mode (✻2): With this mode selected, the ring signal from the device ports are interrupted in a double burst pattern, making it easier to determine if the incoming call is from a door phone speaker or the C.O. line.

Multiple Relay Activation Mode (✻3): If selected, after a door strike command is entered, the phone is switched back to the door phone speaker port so additional doorstrike (relay activation) commands can be entered. This is useful when letting someone through your gate with the first command then unlocking your front doorstrike with a second command. To return to the call on hold, enter "#".

Paging Mode (✻4): In this mode a paging system that provides talk battery can be connected to one of the door phone speaker ports. When the person on the phone wants to make a page, they can enter "#" and a "1" or "2" depending on which port the paging amplifier is on. After the announcement is made another "#" will return them to the phone conversation.

Emergency Phone Mode (✻5): This mode allows an Emergency Phone or any other standard telephone to be connected to **DEV1**. The "**PHONES**" jack can be connected to a loop or ground start line.

Inhibit Latching Commands Mode (✻6): In some installations it is critical that the door strike or door actuator not be turned on for long periods of time. To prevent this from happening, enter ✻6 when in programming. In this mode, the toggle command (✻#) and the continuous activation command (✻1) are ignored.

Operation

A. Door Entry Controller

Communicating with the Door Phone Speaker

a. Visitor Initiated Call

A visitor pressing the button will cause the phones connected to the "PHONES" port to ring. Simply answer your phone to converse with the visitor.

b. Monitoring Door Phone Speakers

A door phone speaker may be monitored from any phone connected to the Door Entry Controller by Touch Tone dialing a "**#**" followed by a Touch Tone "**1**" or "**2**" to monitor door phone speaker 1 or door phone speaker 2 respectively. This feature is not available for pulse dialing phones. ***Note:*** *Do not attempt door phone speaker monitoring while a call is in progress, the call will be disconnected.* ***Note:*** *When monitoring, the auxiliary contact will only work on the* ***Continuous Mode (11).***

2. Placing C.O. Line Calls on Hold

If a C.O. line call is in progress and a door phone speaker is activated, a single or double "call waiting" tone will be heard indicating door phone speaker 1 or door phone speaker 2 is calling. To place the in-progress call on hold and answer the calling door phone speaker, simply dial a Touch Tone "**#**", pulse dial a "**2**" or hook flash twice.

3. Activating a Doorstrike, Magnetic Lock or Gate Controller

To activate a relay contact, you must be communicating with a door phone speaker. Simply Touch Tone dial "*** ***", pulse dial a "**3**" or hook flash three times. Two confirmation tones will be heard and the relay will be activated for the programmed doorstrike activation time. The phone will then be returned to the C.O. line. If a call was in progress, the original caller will be taken off hold to continue the conversation. To return to the original call without activating a relay, Touch Tone dial "**#**", pulse dial a "**2**" or hook flash twice.

4. Features

Features	Touch Tone Commands	Pulse Dial/Flash Commands
Activate doorstrike relay 1 or 2	*** ***	Pulse dial 3 or hook flash 3 times
Continuously activate doorstrike relay 1 or 2	*** 1**	
Continuously de-activate doorstrike relay 1 or 2	*** 0**	
Activate opposite doorstrike relay	*** 2**	
Toggle relay from last position	*** #**	
Answer or disconnect a door phone speaker call	**#**	Pulse dial 2 or hook flash 2 times
Monitor door phone speaker 1	**# 1**	
Monitor door phone speaker 2	**# 2**	

Note: *When on the C.O. line, if a Touch Tone other than* ***#*** *is entered, any additional Touch Tones in that dial string will be ignored. To regain control of the Door Entry Controller, the phone must be momentarily placed on-hook.*

5. Auxiliary Contacts

The auxiliary contacts are a separate set of contacts that can be programmed (see **Programming** section **D**) to activate in different patterns when door phone speaker 1 or door phone speaker 2 is off hook. A momentary activation, a continuous activation while the door phone speaker is off-hook, and a ring cadence pattern are available.

a. Timed Activation

If an auxiliary contact activation time is programmed (two digits **00-10** followed by **#03**), when either door phone speaker is activated, the auxiliary contacts will activate for the programmed time (.5 - 10 seconds). This is ideal for operating a doorbell or chime.

b. Continuous Activation

If the auxiliary contact is programmed to continuously activate (**11** followed by **#03**), while either door phone speaker is ringing or off-hook, the auxiliary contacts will latch. This is ideal for controlling cameras, lights, etc.

c. Ring Cadence Activation

If the auxiliary contact is programmed to custom ring cadence ("**12 #03**") when door phone speaker 1 is activated, a repeating 1 second on and 3 seconds off contact pattern is generated. If door phone speaker 2 is activated, a repeating double burst contact pattern is generated with 3 seconds off between patterns.

B. Paging Controller (for use with paging systems that provide talk battery)

n this mode a paging system that provides talk battery can be connected to one of the door phone speaker ports. When the person on the phone wants to make a page, they can enter "**#**" and a 1 or 2 depending on which port the paging amplifier is on. After the announcement is made, if a call was in progress, another "**#**" will return them to the phone conversation.

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OTIS 211

Quick Guide to Emergency Elevator Telephone Installation and Programming

Installation

The telephone will come preinstalled in the COP. Field installation will be to connect the Telephone wires from the traveling cable to the designated terminals on the COP back panel.

For Programming Assistance Call OtisLine
1-800-458-6847
For Other Assistance Call OtisRole
1-877-287-6847

This COP Contains the Otis ADA Telephone 26800ALD.

If you experience start-up issues please call the numbers listed above

Do Not Call "EMS" for support!

Programming by Otis Line

1. Connect phone to line
2. Press HELP button
3. Phone is programmed to call Otis Line
4. Otis Line operator will program the phone
5. The microphone will be muted in programming mode
6. If communication with the car is required during programming, dial #9 to exit programming mode and then reenter programming mode (#94851) when communication with the car is completed

Programming from external line

1. Dial into the phone from any touch tone phone
2. The phone will pick up after 5 rings and respond with a diddle tone
3. Enter programming Mode by entering #94851
4. Three beeps will confirm phone is in programming mode
5. The microphone will be muted in programming mode
6. Program the phone using the Programming Guide
7. If communication with the car is required during programming, dial #9 to exit programming mode and then reenter programming mode (#94851) when communication with the car is completed

Programming Guide

Commands can be entered in any order. A three beep confirmation will follow any valid command

#0 phone number *#	Program Phone number 1
#1 phone number *#	Program Phone number 2
#2 phone number *#	Program Phone number 3
#3 phone number *#	Program Phone number 4
#7(beep) location Message	Record location message
#8	Check location message
#9	Exit Program Mode
*#	Hang up and Dial out
##	Hang Up
#*	See Mode Settings Table

Notes : 1) Inserting a # in the phone number will add a 4 second pause. This is used when a "9" or other digit is needed to get an outside line.
Example #0 9# 123-5678 *#.
2) To remove a number from the dial sequence dial the command with no phone number. Example: #0*#
Remove all numbers for ringdown line Example: #0*#, #1*#, etc

Mode Settings Table

Command	Code	Description	Range	Default
#*00*#		Reset All to Defaults		
Composite Command	AAA	Disconnect Timeout in seconds	060 - 255	180
#*1AAA1BC*#	B	Phone code for multiphone per line differentiation	1 to 8	8
	C	Voice Prompt Message Options 0 = Disable 1= Enable 3= Interruptible 5 = Delayed		3
#*20N*#	N	Ring LED Enable 0 = OFF 1 = ON		1
#*21M*#	M	Ring Count	1-9	5
#*30C*#	C	Voice Prompt 0 = Disable 1= Enable 3= Interruptible 5 = Delayed		3
#*31X*#	X	Call Progress 0= OFF 1 = ON		0
#*40B*#	B	Multiphone Select	1-8	8
#*41AAA*#	AAA	Disconnect Timeout in seconds	060-255	180
#*42X*#	X	CPC Disconnect Mode 0 = Disabled 1 = Low Line 2 = Normal 3= Short Pulse		2

Request 26800ALD_OIM for complete details

Non - Programming Mode Commands

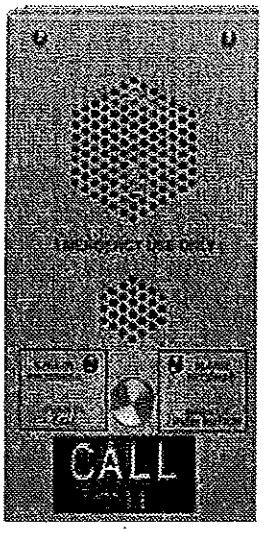
0 Toggles the Call Lock/ Call in progress Notification (blinks LED)
1 Play Initial Message once
2 Play Location Message
3 Reset disconnect timeout timer
mutes microphone after 3 seconds delay with no other keypress
Unmutes on any subsequent keypress
#X Plays phone # programmed into autodialler (X=0-3)
*0 Hang up phone

Electronic Micro Systems Inc.

"Sound Innovation, On Call."

LINE POWERED OTIS ADA TELEPHONE USER'S MANUAL

(Models: CAA7145E1-E10)



Model: CAA7145E1

Electronic Micro Systems Inc.
125 Ricefield Lane
Hauppauge, NY 11788
www.electronicmicrosystems.com

Phone: (631) 864-4742
Toll Free: (800) 333-3671
Fax: (631) 864-4770
Email: Sales@emscomm.com

A HALMA GROUP COMPANY

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Installation

Box-Less Style (CAA7145E2-10)

1. Mount phone on the car station.
2. Attach red lens cap and bezel to ¼" hole on car station.
3. Insert LED into lens cap and plug wire into P6.
4. 2 LED versions – Red LED goes to "Call in Progress" (P6)
   Green LED goes to "Alarm Received" (D29)
5. For CAA7145E3-10 models only, attach emergency button leads to terminal block at P2 (EXT ON/OFF).
6. For CAA714E4-10 models only, plug in the microphone to the P3 (MIC) and the Red LED to the P6 white plugs.
7. Attach phone line to terminal block at P1 (TELCO).

Box Style (CAA7145E1)

1. Mount back box into phone cabinet on car station.
2. Allow enough room at bottom for opening and removing phone cover.
3. Attach phone line to terminal block at P1 (TELCO).
4. Attach phone cover with screws provided.

Flush Mount Style

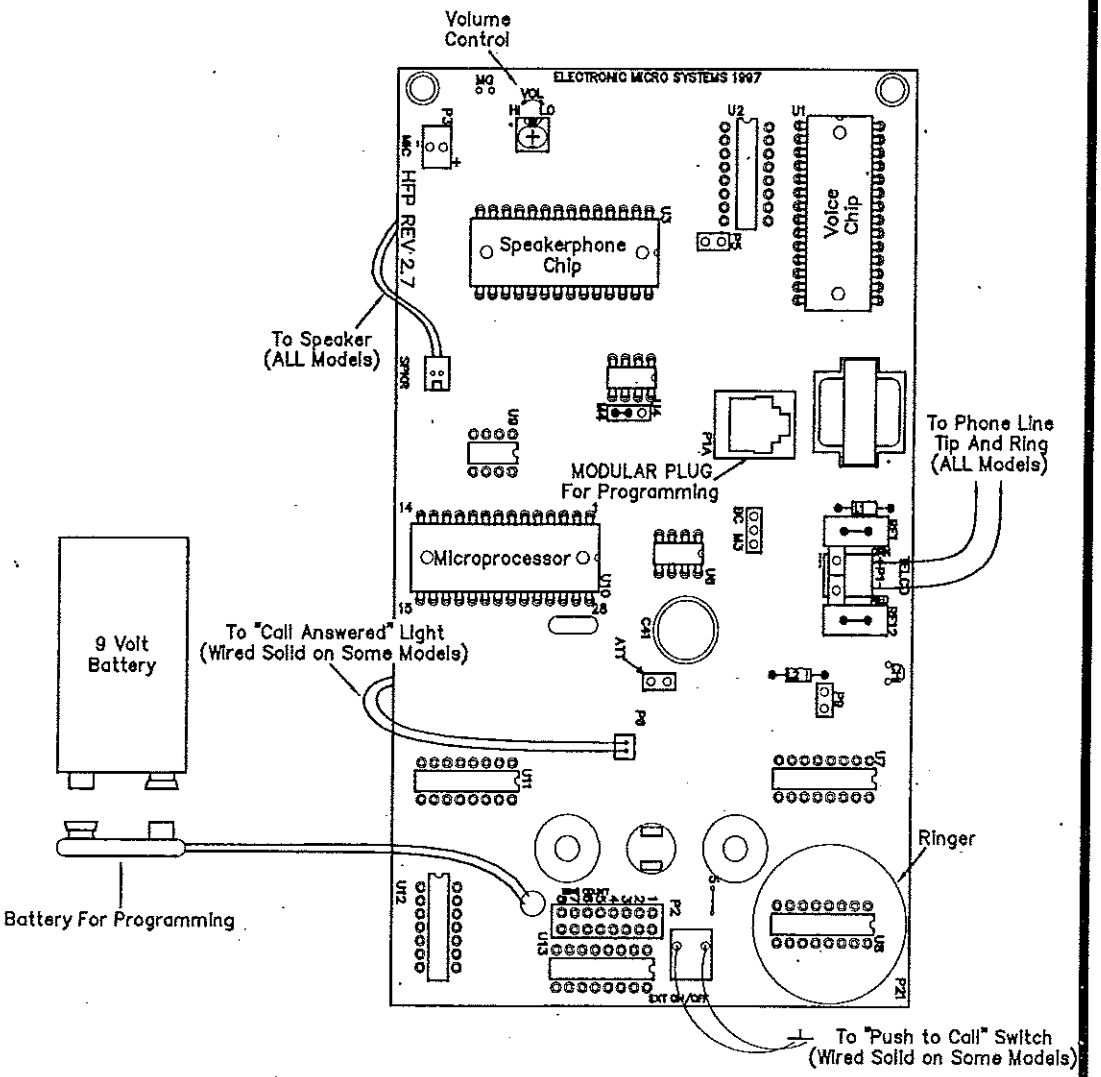
1. Cut 5 x 9 inch hole for the phone.
2. Using the plate as a template mark & drill holes for the mounting screws.
3. Attach phone line to terminal block at P1 (TELCO).
4. Mount phone (screws not provided).

Surface Mount Style

1. Use mounting plate as a template.
2. Attach mounting plate to wall.
3. Attach phone line to terminal block at P1 (TELCO).
4. Attach phone cover with screws provided.

CAUTION: To reduce or eliminate any possible interference, it is highly recommended that the wiring used inside the traveling cable for the incoming phone line be a 20-22 AWG twisted shielded pair with the shield grounded at the elevator controller end only. Any terminations or splices between the elevator controller and the elevator phone should have the shield carried through the termination of splice and not grounded at that point.

PC Board Diagram



Note: On all HFP Rev. 2.7 or above revision boards, the jumper on P9 position should be installed whenever the phone is used with a cellular backup unit. When used on a regular phone line, the jumper should be removed.

Programming Set-Up Methods

There are two appropriate methods of SETTING UP the Hands-Free elevator phone for programming. Select the one applicable to your situation as described below.

NOTE: THE TELEPHONE LINE PROVIDED MUST BE A TOUCH-TONE LINE.

The Hands-Free telephone can be programmed at any location and then installed in the elevator cab. The phone will retain its programming without the need for a battery.

Method A: Calling Into the Installed Elevator Phone

1. From any touch tone phone call the phone number to which the elevator phone is connected.
2. After five rings (OR if the "HELP" button is pressed) the elevator phone will turn on automatically and you will hear a diddle-diddle-diddle sound.
   NOTE: If there is more than one elevator phone on the same phone line you will need to have someone press the "HELP" button on each elevator phone, or disconnect the others, in order to program each ADA phone.
3. Go to the "PROGRAMMING INSTRUCTIONS" section to continue.
4. After programming the ADA phone, you should test it by pressing the "HELP" button. The test will assure the phone is functioning correctly and as programmed.

Method B: Set Up for Programming Without a Phone Line

1. Connect the 9-volt battery to the battery connector on the board. (See diagram of phone board)
2. Plug a touch-tone phone into the black modular jack. (See diagram of phone board)
3. Unplug the speaker. (See diagram of phone board)
4. Wait 60 seconds and then PRESS the "HELP" button on the elevator car panel.
5. Make sure that the red light of the phone turns on. If it does not, go back to step 4 and start again.
6. Pick up the touch-tone phone handset and listen for the elevator phone to dial.
7. Two seconds after the elevator phone dials you will normally hear a tone, a two second pause and a pre-recorded voice message will begin repeating with a touch-tone at the end of the message. IF YOU DO NOT HEAR A VOICE MESSAGE, IT MAY MEAN THAT THE

PHONE IS SET UP TO NOT PLAY THE VOICE MESSAGE.

8. On the touch tone phone enter "**1**" immediately after you hear the tone at the end of the message. If there is no message, do not enter "**1**".
9. Listen to the handset and make sure the message is not repeating.
10. REFER TO THE PROGRAMMING INSTRUCTIONS, after programming, return to step 11 below.
11. Reconnect the elevator phone speaker to the phone circuit board.
12. Unplug 9-volt battery.
13. Unplug touch-tone phone and test the phone completely when the ADA phone is hooked up to a phone line.

Programming Instructions

1. Choose programming setup method A or B.
2. Enter **# 94851 or # 9000000** to get into programming mode. Listen for three beeps.
   NOTE ONE: Enter touch tone digits slowly and deliberately.
   NOTE TWO: Once you are in programming mode, you can perform any programming step in any sequence as long as you get three beeps after your programming entry.
3. Enter **# 0** (enter the first phone number to be programmed) *** #**. Listen for three beeps. EXAMPLE: **# 0 5551212 * #.**
   NOTE: If you are on a phone line that requires a "9" or another digit to call the answering service, enter a # after the 9. This will insert a 4 second pause. EXAMPLE: **# 09 # 5551212 * #.**
4. Enter **# 1** (enter the second telephone number to be programmed) *** #**. (Optional)
5. Enter **# 2** (enter the third telephone number to be programmed) *** #**. (Optional)
6. Enter **# 3** (enter the fourth telephone number to be programmed) *** #**. (Optional)
7. Enter **# 7** and listen for the single beep. At the beep, record the **location message** by speaking into the touch-tone phone handset. Enter **0** to end. If you want to listen to the location message without changing it, enter **# 8**.
8. Enter # * **1180183** * # and listen for three beeps. (Enables Voice prompt messages)
9. Enter # # to hang up the phone.

Optional Programming Instructions

***PURPOSE*: To Eliminate Autodialing:**
To disable the dialer from dialing a phone number. **(Used on a Ring Down telephone line)**

Enter **# 94851 or #9000000** and listen for three beeps.
Enter **# 0 * #**, listen for three beeps, enter **# 1 * #**, listen for three beeps.
Enter **# 2 * #**, listen for three beeps, enter **# 3 * #**, listen for three beeps.
Enter **# * 1180180 * #**, listen for three beeps. (Optional)
Enter **# #** and hang up.

***PURPOSE*: To Disable the Voice Prompt Message:**
To disable the voice prompt from saying: "Elevator call at the tone press one to talk, press two for Location".

Enter **# 94851 or #9000000** and listen for three beeps.
Enter **# * 1180180 * #**, listen for three beeps.
Enter **# #** and hang up.
CAUTION: This option cannot be used with two or more number dialing.

***PURPOSE*: To Disable Voice Prompt Message and Delay Voice Location Message:**
To disable the voice prompt and have the location message play automatically after 9 seconds.

Enter: **# 94851 or #9000000** and listen for three beeps.
Enter: **# * 1180185 * #** and listen for three beeps.
Enter: **# #** and hang up.

***PURPOSE*: To Enable Voice Prompt Message: (DEFAULT)**
To enable the voice prompt message to say: "Elevator call at the tone press one to talk, press two for Location".

Enter **# 94851 or #9000000** and listen for three beeps
Enter # * **1180183** * # and listen for three beeps.
PROGRAM LOCATION MESSAGE (SEE STEP 7 IN PROGRAMMING INSTRUCTIONS)
Enter # # and hang up.

Operating Instructions

A: Trapped Passenger Calling Out

1. Passenger presses "HELP" button. Red LED turns "ON".
2. Passenger hears dial tone and dialing of first phone number.
3. Passenger hears intermittent ringing.
4. Passenger hears a tone two seconds after elevator phone dials and every 7 seconds until the operator responds to the call.
5. If first phone number is not answered within approximately 50 seconds, the elevator phone will hang up and dial the second phone number. The same sequence of events will occur for any additional phone numbers the phone is programmed to call.
6. Once the receiving operator responds to the call with a touch-tone digit the passenger and the operator will be able to communicate.
7. When the Red LED flashes or the Green light turns 'ON', the operator can request the passenger to press the "HELP" button again. This action will send an audible signal to let operator know that someone is actually stuck in the elevator and not just a prank call. This action is normally only important for someone who cannot speak.

B: Responding Operator - with Prompt Message Enabled

1. Operator hears ringing of incoming call from elevator and answers call.
2. Operator hears a repeating message from the elevator phone stating "ELEVATOR CALL, AT THE TONE PRESS ONE TO TALK, PRESS TWO FOR LOCATION". The message will keep repeating until the operator presses a "1" or "2" after the tone on their touch-tone phone.
3. The passenger does not hear any voice messages.
4. Normally the operator should press "1" after the touch-tone at the end of the message to quickly establish two way voice communication with the trapped passenger.
5. At any time the operator can press "2" to hear the location of the elevator.
6. In elevators with a lot of background noise, the operator can press # to mute the microphone. Entry of any other digit will re-enable the microphone.
7. At the end of the location message another message will be heard by the operator that Says: "PRESS ZERO TO ALERT PASSENGER OF RESCUE."
8. When the operator presses "0" on their touch-tone phone they will hear three beeps. The Red light flashes or the Green light turns 'ON'. At this point the operator has acknowledged the call. The passenger knows that the call has been received because wording printed on the panel or the phone states "ALARM RECEIVED" or "BLINKING INDICATES CALL IS ANSWERED"

9. The operator can request that the passenger press the "HELP" button again. If the passenger presses the button, the operator will hear a diddle-diddle-diddle sound. For the operator, this means that there is a passenger in the elevator.
10. Prior to the phone turning off (normally 3 minutes), the operator will hear this message twice, "TO AVOID DISCONNECT PRESS THREE NOW"
11. If the operator presses "3" on their touch tone phone within ten seconds after this message, the elevator phone will stay on for another three minutes. The message will be repeated every three minutes for the duration of the call so that the operator can keep the passenger on the line until help arrives or as long as needed.
12. Operator presses *0 to hang up the elevator phone.

Alternate B - with Delayed Location Message - Voice Mode 5

ALL OPERATING STEPS ARE THE SAME EXCEPT

1. Operator answers incoming call and begins talking to passenger.
2. Within 17 seconds after the call is dialed, the operator will hear the location message followed by this message: "PRESS ZERO TO ALERT PASSENGER OF RESCUE."
3. Both messages will repeat every 20 seconds until the operator enters "0".

Operator Calling Into Elevator Phone

1. Operator dials the phone number of the elevator phone and hears ringing.
2. After five rings the elevator phone turns on automatically and operator will hear diddle-diddle-diddle sound.
3. At this time the operator and passenger can talk. All other operations stay the same.

Passenger Receiving Call from Operator

1. Passenger hears elevator phone ringing. Phone turns on automatically after 5 rings, or Passenger can push the **"HELP"** button to turn elevator phone on.
2. When elevator phone turns on the passenger and operator can communicate.

Battery Information

The following information explains how to determine when a battery or power pack is needed or when to use a specific type of battery:

You will need a 9VDC battery or a power pack when:

1. The phone drops off the telephone line without completing the call.
2. There is more than one phone on the same telephone line and there is a need to call back to a specific elevator phone, or if all elevator phones need to be "ON" at the same time.

Note: For programming and testing, any fully charged 9-volt battery could be used.

ALKALINE BATTERY: Can be used on all phone lines. The battery will need to be checked every 6 months. An AC connection is not required and the battery cannot be trickle charged.

LITHIUM BATTERY: Can be used on all phone lines. The battery will need to be checked every 12 months. An AC connection is not required and the battery cannot be trickle charged.

POWER PAK: Can be used on all phone lines. The Ni-Cad battery in the power pack will need to e checked every 12 months. An AC connection is required and the battery will be charged by the power pak.

CAUTION: **DO NOT** leave an alkaline or lithium battery in the **2.53 Revision** and lower EMS hands-free phones.

Troubleshooting Guide

Always visually check the phone for loose or shorted wires, physically damaged or missing components. The phone will not work on a Digital phone line. It will **only** work on **an Analog** phone line or an Analog port from a digital phone system.

Problem: Phone would not turn 'ON'
Possible Cause:

- Check phone line connection
- Check phone line voltage (Normal C.O. line 48-52VDC or 20-35VDC – Internal systems)
- Try connecting a fully charged 9-Volt battery.
- Make sure phone line is connected to the screw terminal connector at TELCO. (See P.C. Board Diagram)
- Check if unit is pulling down line voltage (You should read the same as the phone line voltage)
- Check voltage at controller
- Check button connection
- On an OEM style phone Remove button connector and try shorting button connection at P2 EXT- ON/OFF pins.

Problem: Phone Dials Incorrect number
Possible Cause:

- Check number programmed into phone
- Plug a phone in the jack and call the same number you are trying to program to see if you can call out.
- Check to see if the phone is on a ring down line
- Check to see if another auto dialer is on the line and remove it
- Reprogram unit

Problem: No sound thru speaker
Possible Cause:

- Check speaker connection (See P.C. Board Diagram)
- Try calling into unit and speaking to person in the car
- Make sure that the Volume and ALC pots are adjusted at center.
- Make sure a jumper/short is placed on the bottom 2 pins of M4 (HFP-Rev 2.7 only)

Problem: Noise on the line
Possible Cause:

- Check if twisted shielded pair was used
- Check to see if shield was connected to ground at the controller end only
- Measure AC voltage on line, should be zero
- Check button connection

- Try a spare pair of wires thru traveling cable
- Check if wire is running thru hoist way by itself

Problem: Phone dials out but has broken communication
Possible Cause:

- Check if voice prompt message is being stopped
- Check if there is loud background noise in cab
- Check location of microphone
- Check mounting of unit
- Hold unit in hand and test
- Make sure that the Volume and ALC pots are adjusted at center.
- Check to see if person-answering call is using a handset. Headsets could cause problems.

Problem: Phone cannot be programmed
Possible Cause:

- Try holding down keys slowly and deliberately
- Try disconnecting the speaker. (See P.C. Board Diagram)
- Make sure you are using a touchtone phone
- If you are using a cell phone do not stand in the car
- Check if phone is hearing tones (see if Red LED flickers when a DTMF tone is received)
- Check if twisted shielded pair was used
- Check to see if shield was connected to ground at the controller end only
- Measure AC voltage on line, should be zero voltage
- The phone will only work on an Analog phone system and not digital.

Problem: Phone rings busy
Possible Cause:

- Check if other devices are on the line
- Check where phone line is connected to unit
- Make sure phone line is connected to the screw terminal connector at TELCO. (See P.C. Board Diagram)
- Check voltage on phone line
- Check to see if voice chip is in backwards (See P.C. Board Diagram)
- Check polarity on phone line
- Make sure unit is off
- Remove our unit from the line to see if line is still busy
- Make sure phone line is connected to the screw terminal connector at TELCO. (See P.C. Board Diagram)

Problem: Phone does not ring

Possible Cause:

- Check phone line connection
- Check ring voltage (min. 65VRMS)
- Check phone line ringing with a touch-tone phone. (Use the black jack on P.C. board)

If you have questions or problems, please call Electronic Micro Systems technical support for assistance at 1-800-333-3671.

Notes:

Specifications

Input connections:	One shielded twisted pair communication cable (Shield should be grounded at the controller only)
Phone line requirements:	Standard (analog) loop start voice grade touch-tone telephone line, PBX or key system station analog telephone line.
Optional AC adapter:	9VDC @ 200mA
Power required:	on-hook 0 ma
Power required:	off-hook 20 to 30 ma
Phone line voltage:	on-hook 24 to 56.5VDC (nominally 48VDC)
Phone line voltage:	off-hook 8 to 20VDC (nominally 14VDC, min. 8 to 14VDC)
Ringing voltage:	80 to 120VAC
Dialing:	DTMF (Dual Tone Multi Frequency)
Frequency Response:	550Hz - 3400Hz, +/- 3db.
Operational Loop resistance:	600 ohms
FCC Registration:	6HVUSA-25668-TE-T
Ringer Equivalency Number:	0.2B

FCC Notice

The EMS phone complies with Part 68 of the FCC Rules. The label affixed to this equipment contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five *(5.0)*.

To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

The following jacks must be ordered from the telephone company in order to interconnect this Equipment with the public communication network: RJ11.

An FCC compliant telephone cord and modular plug is provided with this equipment. This Equipment is designed to be connected to the telephone network or premises wiring, using a Compatible modular jack that is Part 68 compliant. See Installation Instructions for details.

If this device causes harm to the telephone network, the 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 be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

Warranty Policy

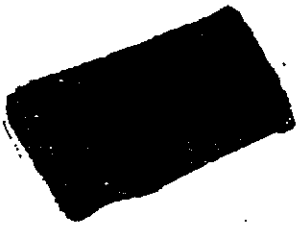
Electronic Micro Systems Inc. warrants its products to be free from defect in materials and workmanship under normal use and service for 24 months from date of purchase. Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor any product which proves defective in materials or workmanship under normal use and service. EMS shall not be responsible for any damage to the unit incurred during installation. Seller shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than EMS factory service. For warranty service, contact EMS at 631-864-4742 or 800-333-3671.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO CASE SHALL SELLER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

Return Policy

During installation, if a product does not appear to function properly the installer must call the **Electronic Micro Systems'** Technical Support line at (800) 333-3671, Monday through Friday. If the technician determines that the product is not functioning, an **RA** (Return Authorization) number will be issued, allowing the installer to return the product directly to **Electronic Micro Systems** for Repair, Replacement or Credit. Returns with no fault found, will result in a bench charge plus shipping costs. Returns without an **RA** number will result in a restocking charge of 25% or more plus shipping costs.

ADAMS 5640 Howard St. Skokie, IL 60077-2584
1-800-323-0796 FAX 1-708-982-5890



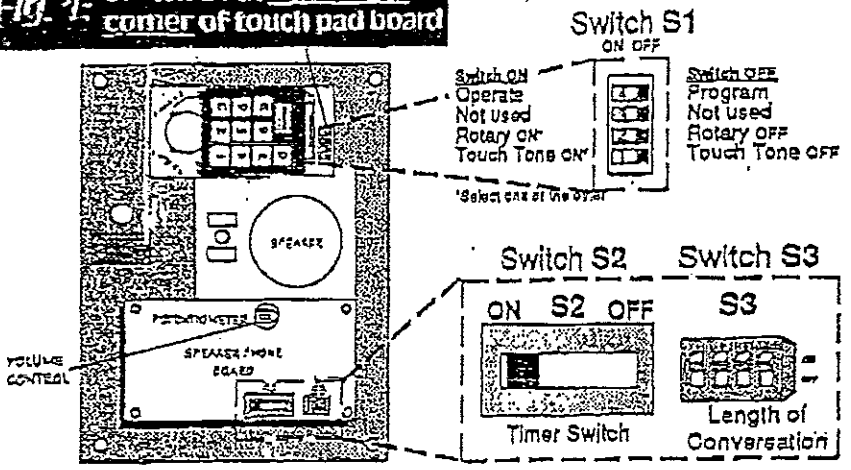
EMERGENCY 3 TELEPHONES

TECHNICAL BULLETIN

Lifelines™ Programming Instructions

(for non-Call-Tracker models A-930P2, P3, P4, & P5)

Fig. 1: Switch S1 at lower right corner of touch pad board

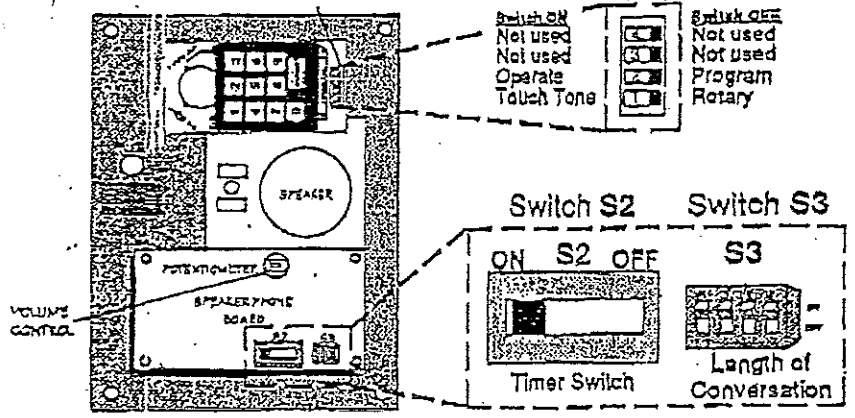


Programming Instructions

1. Set S1 for ROTARY (dip #2 ON, dip #1 OFF) or TOUCH TONE (dip #1 ON, dip #2 OFF).
2. Turn ON timer switch S2.
3. Set S3 for length of conversation.
4. Set S1 dip #4 to OFF
5. Press CALL button and dial emergency phone number.
6. After several rings, set S2 to OFF to shut off phone.
7. Set S2 to ON.
8. Set S1 dip #4 to ON; wait 10 seconds.
9. Press CALL button; phone should dial.

LENGTH OF CONVERSATION (SELECT ONLY ONE TO ON):
#1 ON = 2 MINUTES
#2 ON = 3 MINUTES
#3 ON = 4 MINUTES
#4 ON = 5 MINUTES

Fig. 2: Switch S1 at right center of touch pad board



Programming Instructions

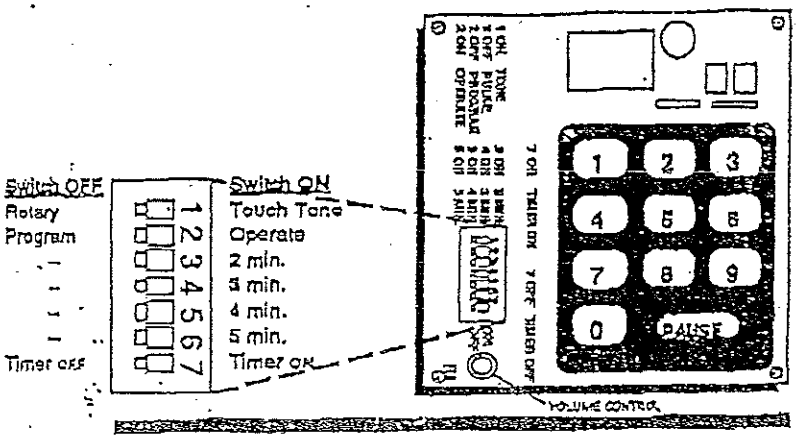
1. Set S1 dip #1 for ROTARY (OFF) or TOUCH TONE (ON).
2. Set S1 dip #2 to OFF.
3. Set S2 timer to ON.
4. Set S3 for length of conversation.
5. Press CALL button and dial emergency phone number.
6. After several rings, set S2 to OFF to shut off phone.
7. Set S2 to ON.
8. Set S1 dip #2 to ON; wait 10 seconds.
9. Press CALL button; phone should dial.

LENGTH OF CONVERSATION (SELECT ONLY ONE TO ON):
#1 ON = 2 MINUTES
#2 ON = 3 MINUTES
#3 ON = 4 MINUTES
#4 ON = 5 MINUTES

Fig. 3: 7-position switch to left of keypad

Programming Instructions

1. Set dip #1 for ROTARY or TOUCH TONE.
2. Set dip #7 (Timer) to ON.
3. Set dips #3 thru #6 for length of conversation; see drawing. (NOTE: Set only one of these dips to ON.)
4. To program, set dip #2 to OFF.
5. Press CALL button and dial emergency phone number.
6. After several rings, set dip #7 to OFF to shut off phone.
7. Set dip #7 to ON
8. Set dip #2 to ON; wait 10 seconds.
9. Push CALL button; phone should dial.

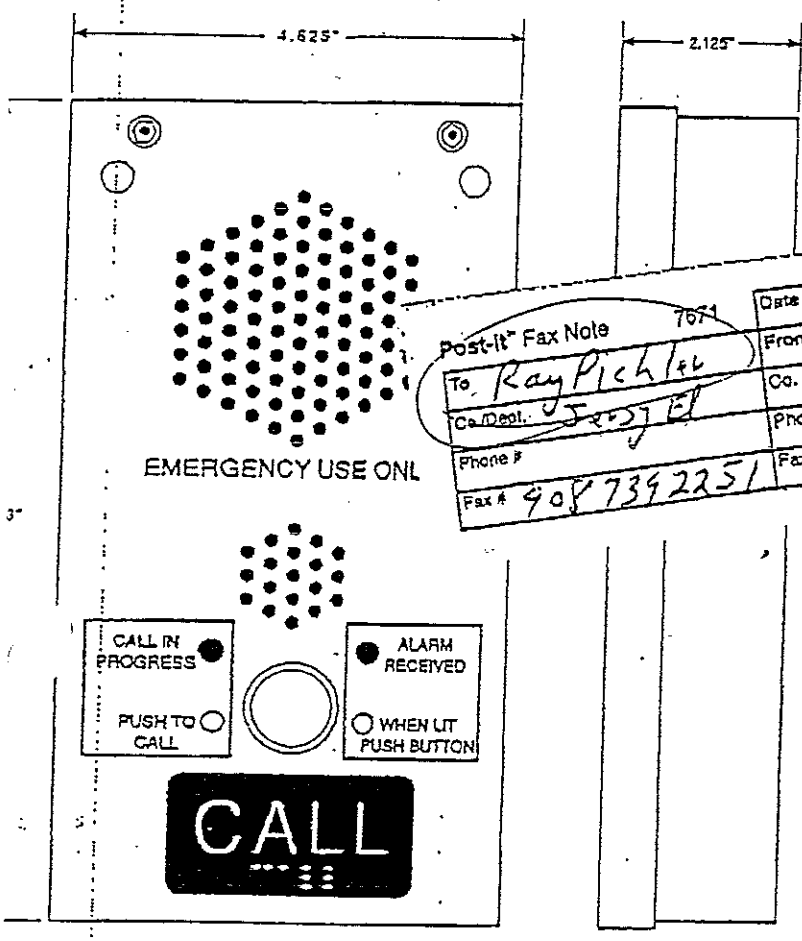


TIS

HANDSOFF™ Telephone

ADAMS & OTIS

Unit Dimensions:



Post-it™ Fax Note 7671 | Date | # of pages
To Ray Pichler | From EMS, Inc
Co./Dept. Fred E | Co.
Phone # | Phone # 800 333 3671
Fax # 908 739 2251 | Fax #

Additional Features:

- Call initiated by pushbutton
- Touchtone
- ring service
-] up to 32-digit
- imed numbers
- ...nes per telephone line
- 8 telephones per line with optional OtisPhone II Autodialer
- Tamper-resistant screws
- Optional built-in power-pack available for weak phones lines
- Fast installation
- FCC registered
- Otis quality and reliability

This style of phone requires a passcode of "#9000,000" instead of "#94851"

OTIS

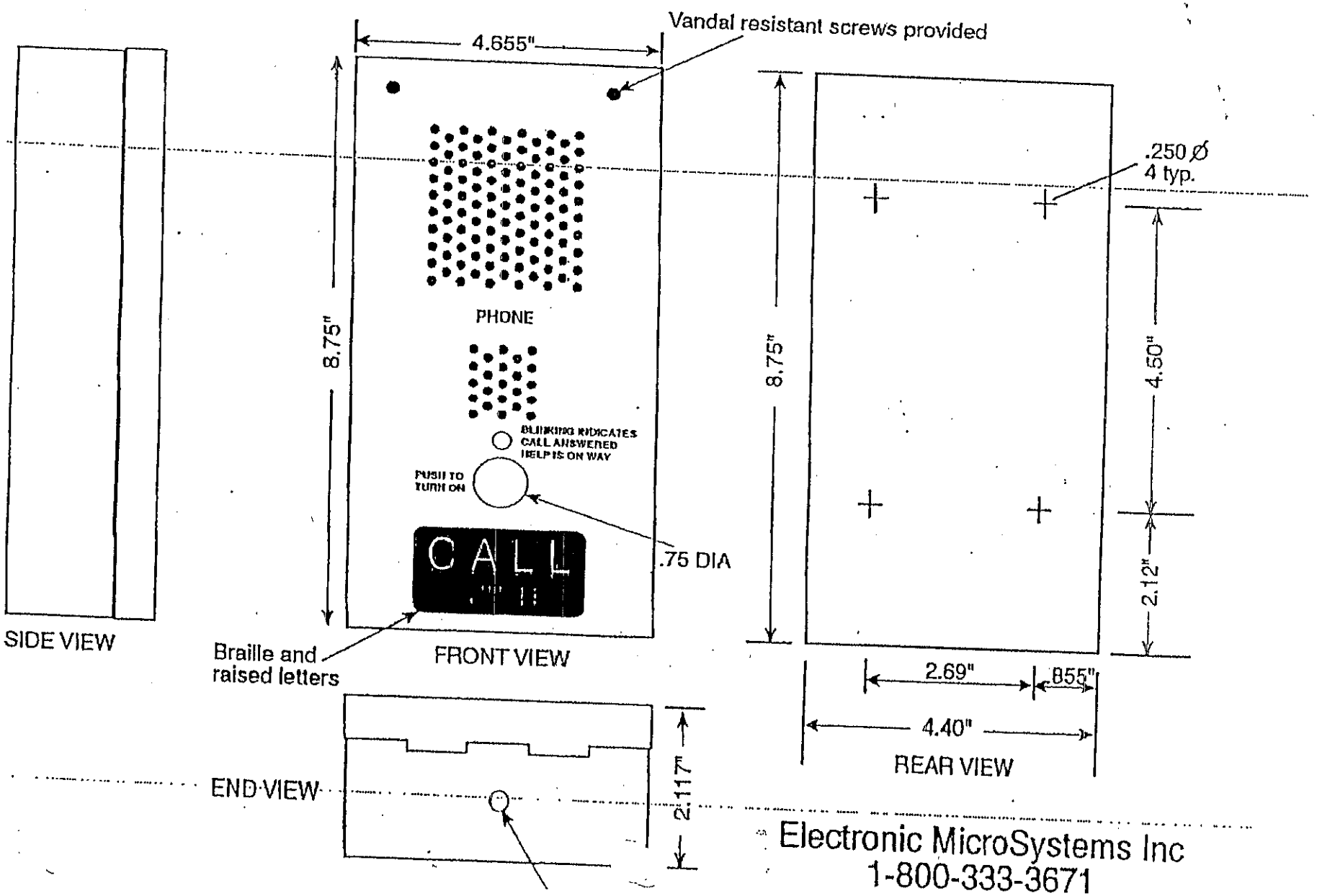
ADAMS

UNITED TECHNOLOGIES OTIS ELEVATOR

Please Contact your local Otis Representative for further information.

Printed in the U.S.A.

PBX – DV



Electronic MicroSystems Inc
1-800-333-3671

INSTALLATION, PROGRAMMING AND OPERATING INSTRUCTIONS
FOR EMS, INC. ADA BOX STYLE ELEVATOR PHONE

INSTALLATION INSTRUCTIONS

Step 1. Determine position of box style elevator phone in the elevator phone cabinet. Allow room at the bottom of the box for opening and removing the cover.

Step 2. Using the box bottom as a template, mark screw hole positions in the back of the phone cabinet.

CAUTION-BEFORE DRILLING CHECK TO MAKE SURE THERE IS NO CHANCE THAT DRILLING WILL DAMAGE ANY PART OF THE ELEVATOR AND THERE IS SUFFICIENT CLEARANCE FOR THE SCREWS YOU ARE USING FOR MOUNTING THE ELEVATOR PHONE.

Step 3. Drill required holes for elevator phone bottom.

Step 4. Mount elevator phone bottom with selected fastener.

Step 5. Insert the cabling for the incoming phone line through the slots provided in either end of the elevator phone bottom.

CAUTION-IT IS HIGHLY RECOMMENDED THAT THE WIRING USED INSIDE THE TRAVELING CABLE FOR THE INCOMING PHONE LINE BE A SHIELDED TWISTED PAIR WITH THE SHIELD GROUNDED ON THE ELEVATOR CONTROLLER END ONLY. ANY TERMINATIONS OR SPLICES BETWEEN THE THE ELEVATOR CONTROLLER AND THE ELEVATOR PHONE SHOULD HAVE THE SHIELD CARRIED THROUGH THE TERMINATION OR SPLICE AND NOT GROUNDED AT THAT POINT.

Step 6. Remove the "TELCO" Block and attach the incoming phone line to the Telco Block's two screw terminals. See Figure 2. NEVER ATTACH THE INCOMING DIALTONE TO THE MODULAR CONNECTOR.

IMPORTANT! IMPORTANT! IMPORTANT! STEP # 7 WILL SAVE YOU TIME AND UNNECESSARY FIELD TRIPS. NEGLECTING TO DO STEP 7 IS THE CAUSE OF MOST FIELD FAILURES!

Step 7. Tape the shield and the individual wires so that they do not short out to the metalwork or to each other.

Step 8. Plug the "TELCO" Block onto the electronics board. See Figure 2.

CAUTION-WHEN CLOSING THE BOX BE SURE TO NOT CRIMP THE SPEAKER WIRES OR THE TELEPHONE CABLING BETWEEN THE ELEVATOR PHONE TOP AND THE BOTTOM.

Step 9. If the phone has been preprogrammed test the phone by pressing the "CALL" button.

Step 10. IF THE PHONE HAS NOT BEEN PROGRAMMED GO TO SETUP AND PROGRAMMING METHODS.

SETUP METHODS

There are three Methods of SETTING UP prior to Programming the EMS, Inc.. elevator phone. Select the one appropriate to your situation as described below.

PHONE LINE MUST BE TONE LINE

The phones can be programmed at any location and then installed in the elevator cab. They will not lose their programming. You do not need a battery to retain the programmed phone numbers or the voice message.

METHOD A-CALLING UP THE INSTALLED ELEVATOR PHONE

1. From any tone phone call the phone number to which the elevator phone is connected.
2. After five rings (OR if the "CALL" button is pressed) the elevator phone will turn on automatically and you will hear a diddle-diddle-diddle sound.

NOTE-if there is more than one elevator phone on the same phone line you will have to have someone press the "CALL" button on the elevator phone you want to program when the elevator phone rings, OR disconnect all other elevator phones and repeat these steps.

3. GO TO PROGRAMMING INSTRUCTIONS

METHOD B-SET UP FOR PROGRAMMING WITHOUT A PHONE LINE

1. Connect the 9 volt battery to the battery connector. See Figure 2.
2. Plug a tone phone into the modular jack. See Figure 2.
3. Unplug the speaker. See Figure 2.
4. Using a small screwdriver briefly short out the two pins at "M3". See Figure 2.
5. Turn the elevator phone over so you can see the front and PRESS the "CALL" button. Make sure that the red light on the front of the elevator phone turns on. If it does not, go back two steps and start again..
7. Pick up the tone phone handset and listen for the elevator phone to dial.
8. Two seconds after the elevator phone dials you will hear a tone, a two second pause and a pre-recorded voice message will begin cycling with a tone at the end of the message.
9. On the tone phone press "1" immediately after the tone at the end of the message.
10. Listen to the tone phone handset and make sure the message is not cycling.
11. GO TO PROGRAMMING INSTRUCTIONS then return to here.
12. Reconnect the elevator phone speaker.
13. Unplug 9 volt battery.
14. Unplug tone phone.

METHOD C-SETUP SO ELEVATOR PHONE CAN BE REMOTELY PROGRAMMED WITH INSTALLER ON-SITE.

Either the elevator phone installer or the off-site programmer can do the programming.

1. Connect elevator phone by wiring phone line to " TELCO" block. See Figure 2.
2. Connect the 9 volt battery to the battery connector. See Figure 2.
3. Plug the tone phone into the modular jack. See Figure 2.
4. Unplug the speaker. See Figure 2.

5. Turn the elevator phone over so you can see the front of the phone.
6. Using the tone phone dial the phone number of the person doing the programming.
7. When you have the off-site person on the phone line press the "CALL" button.
8. Make sure that the red light turns on. See Figure 1.
   Both the installer and the programmer will hear the phone dial.
9. Two seconds after the elevator phone dials both of you will hear a tone, a two second pause then a cycling pre-recorded voice message.
10. Either the installer or the programmer should press a "1" immediately after the tone at the end of the message.
11. Both should listen to make sure that the message is not cycling.
12. GO TO PROGRAMMING INSTRUCTIONS and return to next step.

NOTE: After programming the installer and the programmer will still be able to talk even though the elevator phone has turned off.

13. After the installer finishes talking to the programmer the installer should unplug the tone phone from the elevator phone.
14. Reconnect the elevator phone speaker. See Figure 2.
15. Unplug 9 volt battery. See Figure 2.
16. Test phone by pushing "CALL" button.

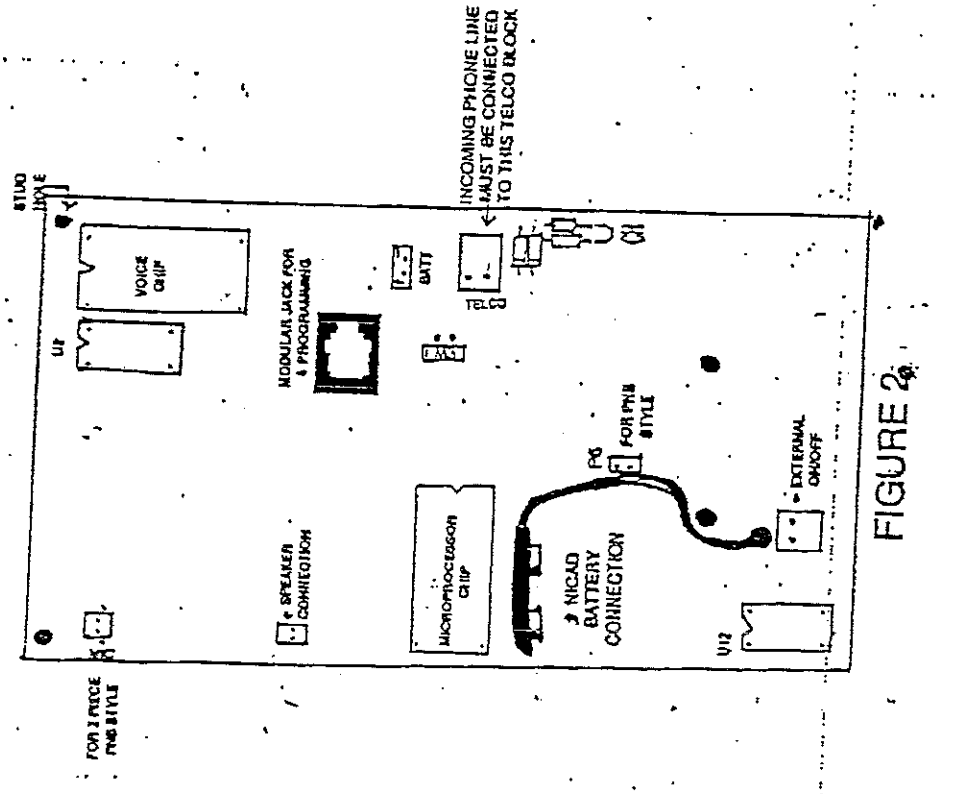


FIGURE 2

Step 1. Using the tone phone keypad press "#94851". Listen for three beeps.
NOTE-Press tone digits slowly and deliberately. Too slow, it ignores tones and too fast, it can't read tones.

Step 2. Press "#0-(first phone number to be dialed)-*#". Listen for three beeps.
EXAMPLE: "#05551212*#". If you are on a phone line that requires a "9" or some other digit to dial out of the building normally a pause in dialing is required after the "9" and before dialing the remainder of the phone number. For example, "#09#5551212*#".

Step 3. Press "#1-(second phone number to be dialed)-*#. EXAMPLE: "#18881212*#"

If no second number is to be dialed, press "#1*#". Listen for three beeps.
If you are on a phone line that requires a "9" or some other digit to dial out of the building normally a pause in dialing is required after the the "9" and before dialing the remainder of the phone number. EXAMPLE: "#19#8881212*#".

SPECIAL 3 OR 4 NUMBER DIALERS

Press "#2-(third number to be dialed)*#. Listen for three beeps.

Press "#3-(fourth number to be dialed)*#. Listen for three beeps.

Step 4. Press "#7" and listen for the single beep. At the beep, record the location message by speaking into the tone phone handset. Immediately at the end of recording the voice message press "0". The voice message will play back for you and then you will hear three beeps.
Note-Maximum length of location message is nine seconds. If you need to modify the location message press "#7" and re-record. If you want to listen to the location message without changing it press"#8".

Step 5. Press "##". You will hear a beep and the elevator phone will turn off.
Step 6. After installation test elevator phone by pressing "CALL" button.
TO DISABLE THE VOICE MESSAGE, DO THE FOLLOWING:

Press #94851, listen for three beeps.

Press #*1180180*#, listen for three beeps.

Press ##

TO ENABLE VOICE MESSAGE, PRESS #94851, LISTEN FOR THREE BEEPS

.PRESS #*1180181*#, listen for three beeps. PROGRAM VOICE MESSAGE. (SEE STEP 4 ABOVE)

.PRESS ##.

TO ELIMINATE AUTODIALING, SET UP FOR RING DOWN

.Press #94851, listen for three beeps.

.Press #0*#, listen for three beeps, Press #1*#, listen for three beeps.

.Press ##

ONE IS CONNECTED TO A DEDICATED TONE PHONE LINE

A. TRAPPED PASSENGER CALLING OUT

1. Passenger presses "CALL" button. Red light on elevator phone turns on.
2. Passenger hears dialtone and dialing of first phone number.
3. Passenger hears ringing intermittently.

NOTE-TWO WAY VOICE COMMUNICATION WILL BE ESTABLISHED AFTER THE OPERATOR PRESSES A DIGIT ON THEIR TONE PHONE.

4. Passenger hears a tone two seconds after elevator phone dials and every 7 seconds until the operator responds to the call.
5. If first phone number is not answered within 42 seconds the elevator phone will hang up and dial the second phone number and the same sequence of events will occur.
6. Once the receiving operator responds to the call with a tone digit the passenger and the operator will be able to communicate.
7. After Red light starts blinking the operator can request that the passenger press the "CALL" button again. This action will send an audible signal to the operator to let operator know that someone is actually stuck in the elevator and not just a prank call. This action is normally only important for someone who can not speak.

B. RESPONDING OPERATOR

1. Operator hears ringing of incoming call from elevator and answers call.
2. Operator hears a cycling message from the elevator phone stating "ELEVATOR CALL, AT THE TONE PRESS ONE TO TALK OR TWO FOR LOCATION". The message will keep repeating until the operator presses a "1" or "2" after the tone on their tone phone.
3. The passenger does not hear any voice messages.
4. Normally the operator should press "1" after the tone at the end of the message to quickly establish two way voice communication with the trapped passenger.
5. At any time operator can press "2" to hear the location of the elevator.
6. At the end of the location message another message will be heard by the operator that says, "PRESS ZERO TO ALERT PASSENGER OF RESCUE"
7. When the operator presses "0" on their tone phone they will hear three beeps. The Red light on the elevator phone will begin blinking. At this time the passenger knows that the call has been received because wording printed on the phone box should state "Blinking Indicates Call Answered Help on Way".
8. The operator can request that the passenger press the "CALL" button again. If the passengers presses the button the operator will hear a diddle-diddle sound. For the operator this means that there is a passenger in the elevator.
9. Prior to the phone timing off(normally 3 minutes) the operator will hear this message, "TO AVOID DISCONNECT PRESS , "THREE" NOW".

If the operator presses "3" on their tone phone within ten seconds after this message, the elevator phone will stay on for another three minutes. The message will be repeated every three minutes for the duration of the call so that the operator can keep the passenger on the line until help arrives or as long as needed.

C. OPERATOR CALLING ELEVATOR PHONE

l. Operator dials the phone number of the elevator phone and hears it ringing.

2. After five rings the elevator phone turns on automatically and operator will hear diddle-diddle-diddle sound.

3. At this time the operator and passenger can talk. All other operations are the same.

D. PASSENGER RECEIVING CALL FROM OPERATOR

. Passenger hears elevator phone ringing. It turns on automatically after five rings, OR,

. Passenger can push "CALL" button to turn elevator phone on.

. When elevator phone turns on the passenger and operator can communicate.

. JRTANT: USE OF A REGULAR 9 VOLT BATTERY IS FOR PROGRAMMING.
' PHONE LINE VOLTAGE IS LOW AND PHONE NEEDS A BATTERY TO OPERATE
ROPERLY, USE A RECHARGEABLE 9 VOLT NICAD BATTERY.

FCC REQUIRED CONSUMER INFORMATION

The Federal Communications Commission (FCC) has established Rules which permits this device to be directly connected to the telephone network. Standardized connectors are used for these connections. This equipment should not be used on party lines or coin lines.

2. If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until repair has been made. If this is not done, the telephone company may temporarily disconnect service.

3. The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes.

4. If the telephone company requests information on what equipment is connected to their lines, inform them of:

(a) The telephone number that this unit is connected to,
(b) The ringer equivalence number{0.3}
(c) The USOC jack required{RJ11}(optional, screw terminals provided)
(d) The FCC Registration Number HCMUSA-74085-SP-N

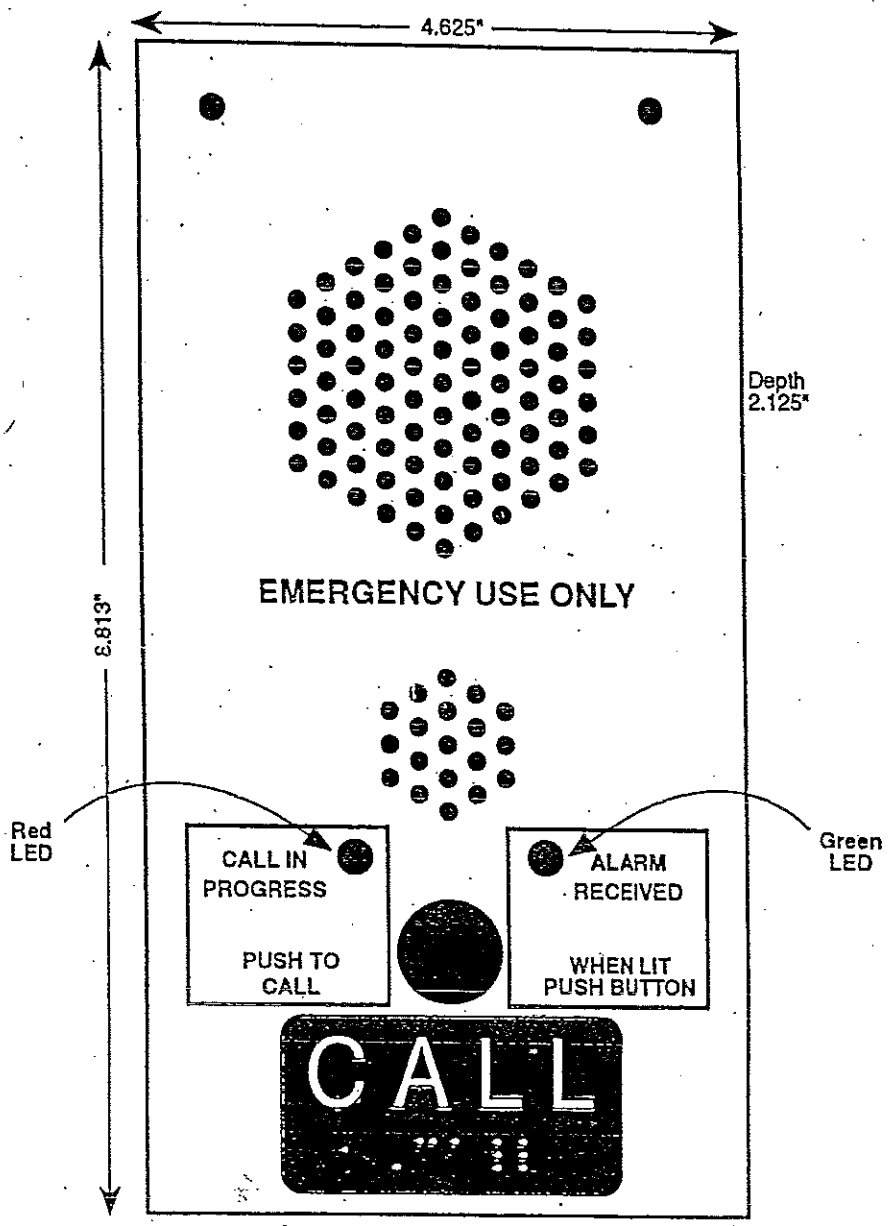
Item (b) and (c) are indicated on the label. The ringer equivalence number(REN) is used to determine how many devices can be connected to your telephone line. In most areas, the sum of the REN's of all devices on any one line should not exceed five (5.0). If too many devices are attached, they may not ring properly.

Service Requirements

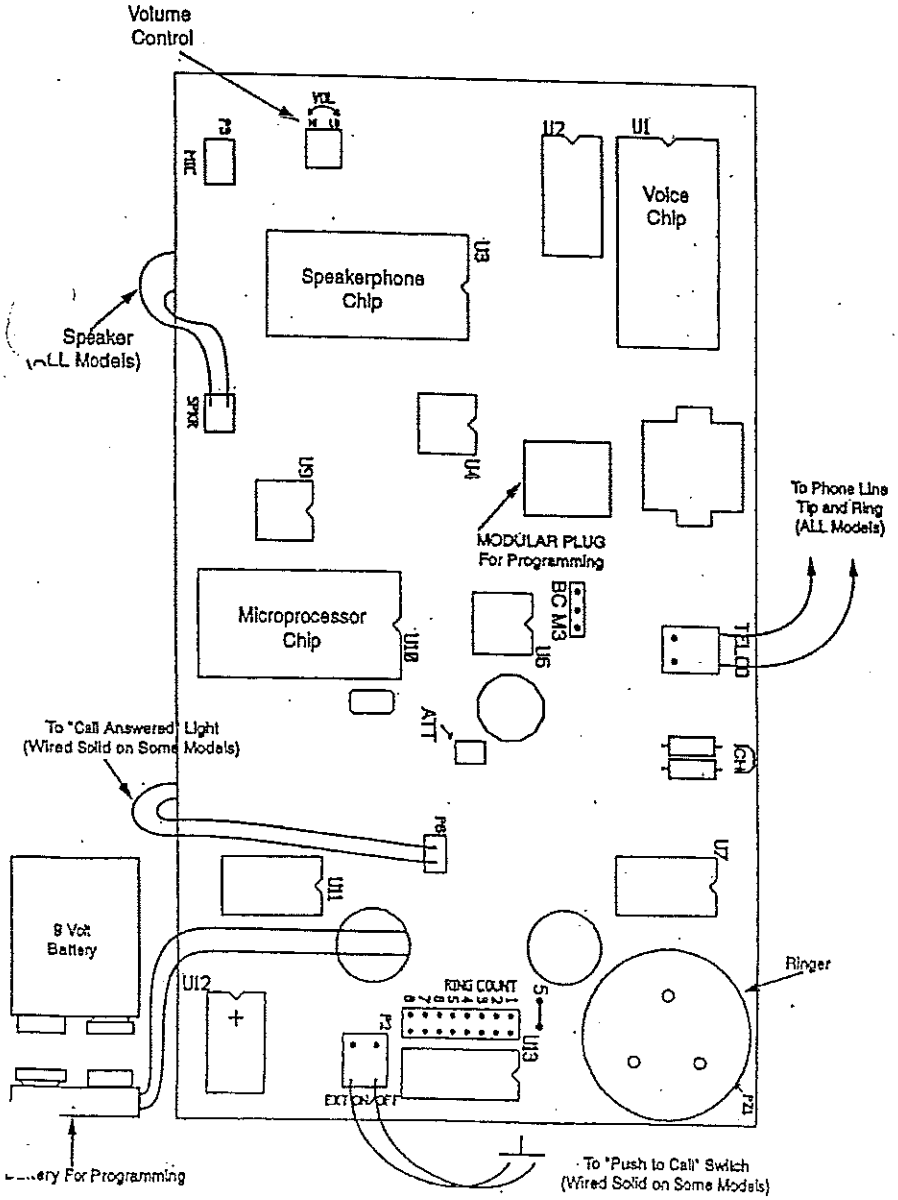
In the event of equipment malfunction, all repairs should be performed by Electronic Micro Systems, Inc. or an authorized distributor. It is the responsibility of users requiring services to report the need for service to us.

SERVICE AND/OR INFORMATION can be obtained at:

ELECTRONIC MICRO SYSTEMS, INC.
2505-C Viceroy Drive
Winston-Salem, NC 27103
Telephone: 1-800-333-3671



OTIS ELEVATOR CO.
OTIS HANDSFREE PHONE
P/N CAA7145E1


Volume Control
VOL
U12
U1
Voice Chip
Speakerphone Chip
U13
Speaker (ALL Models)
SPKR
U14
U9
MODULAR PLUG For Programming
To Phone Line Tip and Ring (ALL Models)
Microprocessor Chip
U10
BC M3
U6
TELCO
ATT
To "Call Answered" Light (Wired Solid on Some Models)
CN1
P8
U7
U11
9 Volt Battery
U12
RING COUNT
S1
U13
P2
EXT ON/OFF
Ringer
P1
To "Push to Call" Switch (Wired Solid on Some Models)
...ery For Programming

INSTALLATION, PROGRAMMING AND OPERATING INSTRUCTIONS FOR OTIS HANDSOFF ADA BOX STYLE ELEVATOR PHONE PART NUMBER: CAA7145E1

INSTALLATION INSTRUCTIONS

Step 1. Determine position of the Otis HandsOff phone in the elevator phone cabinet. Allow room at the bottom of the box for opening and removing the cover.

Step 2. Using the box bottom as a template, mark screw hole positions in the back of the phone cabinet.

CAUTION- BEFORE DRILLING CHECK TO MAKE SURE THERE IS NO CHANCE THAT DRILLING WILL DAMAGE ANY PART OF THE ELEVATOR AND THERE IS SUFFICIENT CLEARANCE FOR THE SCREWS TO NOT DAMAGE THE ELEVATOR DOOR.

Step 3. Drill required holes for elevator phone bottom.

Step 4. Mount elevator phone bottom with selected fastener.

Step 5. Insert the cabling for the incoming phone line through the slots provided in either end of the elevator phone bottom.

CAUTION- IT IS HIGHLY RECOMMENDED THAT THE WIRING USED INSIDE THE TRAVELING CABLE FOR THE INCOMING PHONE LINE BE A SHIELDED TWISTED PAIR WITH THE SHIELD GROUNDED ON THE ELEVATOR CONTROLLER END ONLY. ANY TERMINATIONS OR SPLICES BETWEEN THE ELEVATOR CONTROLLER AND THE ELEVATOR PHONE SHOULD HAVE THE SHIELD CARRIED THROUGH THE TERMINATION OF SPLICE AND NOT GROUNDED AT THAT POINT.

Step 6. Remove the "TELCO" Block and attach the incoming phone line to the Telco Block's two screw terminals. See Figure 2. NEVER ATTACH THE INCOMING DIALTONE TO THE BLACK MODULAR JACK.

Step 7. VERY IMPORTANT. Tape the shield and the individual wires so that they do not short out to the metal work or to each other.

Step 8. Plug the "TELCO" Block onto the electronics board. See Figure 2.

CAUTION- WHEN CLOSING THE BOX BE SURE TO NOT CRIMP THE SPEAKER WIRES, BATTERY SNAP WIRES OR THE TELEPHONE CABLING BETWEEN THE ELEVATOR PHONE TOP AND THE BOTTOM.

Step 9. The HandsOff phone is preprogrammed to call OtisLine Customer Service. If you are connected to a dedicated phone line press the "CALL" button to call out.

Step 10. If the phone is being connected to a phone line that needs a "9" or some other digit to call out go to the SETUP AND PROGRAMMING METHODS.

SETUP PRIOR TO PROGRAMMING BY OTISLINE

Use this method if the elevator phone is installed on a dedicated phone line and will be programmed by OTISLINE (See PROGRAMMING INSTRUCTIONS).

Step 1. Install elevator phone and connect to phone line.
Step 2. Wait one minute for electronics to stabilize.
Step 3. Push "CALL" button on front of phone (See Figure 1).
Step 4. The phone will automatically dial OtisLine customer service.
Step 5. After programming, test the phone by pushing the "CALL" button.

PROGRAMMING INSTRUCTIONS WHEN OTISLINE IS THE PRIMARY OR SECONDARY SERVICE FOR HANDLING ADA CALLS.

The manufacturer has programmed the ADA telephone to call the OtisLine customer 800 number, however, this is NOT the correct number for incoming ADA calls.

Once the ADA telephone has been installed, press the "CALL" button once to call OtisLine. Inform the customer service representative that the ADA telephone needs to be programmed. The OtisLine programmer will ask for the following information:

1. Building name, address, city, and state/province
2. Building Identification number
3. Machine number
4. In-car telephone number

Items 1-3 must be given to OtisLine at time of programming.
Item 4 may be given to OtisLine within five working days if the installer does not have the in-car number readily available. If you have a modular tone phone you can manually call the manufacture. They have Caller ID and can usually give you the in-car phone number.

If there are any special instructions or contact people for regular time or after hours time, please inform OtisLine at the time of programming.

In some buildings, a digit such as "9" must be dialed to get an outgoing phone line. (The ADA phone will not call OtisLine when the button is pushed.) If this should occur, call OtisLine from another telephone. You must provide the in-car telephone number at the time of programming or OtisLine will not be able to program the ADA telephone.

If you have questions or problems, please call OtisLine for assistance at 1-800-233-6847. OR the manufacturer at 1-800-333-3671.

SETUP METHODS

There are three Methods of SETTING UP prior to Programming the EMS, Inc.. elevator phone. Select the one appropriate to your situation as described below.
PHONE LINE MUST BE TONE LINE

The phones can be programmed at any location and then installed in the elevator cab. They will not lose their programming. You do not need a battery to retain the programmed phone numbers or the voice message.

METHOD A-CALLING UP THE INSTALLED ELEVATOR PHONE

1. From any tone phone call the phone number to which the elevator phone is connected.
2. After five rings (OR if the "CALL" button is pressed) the elevator phone will turn on automatically and you will hear a diddle-diddle-diddle sound.

NOTE-if there is more than one elevator phone on the same phone line you will have to have someone press the "CALL" button on the elevator phones and repeat these steps.

3. GO TO PROGRAMMING INSTRUCTIONS
4. After programming the phone, you may remotely test the phone. The test will make sure the phone is functioning correctly and as programmed.
   See STEP 7 in programming instructions.

METHOD B-SET UP FOR PROGRAMMING WITHOUT A PHONE LINE

1. Connect the 9 volt battery to the battery connector. See Figure 2.
2. Plug a tone phone into the black modular jack. See Figure 2.
3. Unplug the speaker. See Figure 2.
4. Using a small screwdriver briefly short out the two pins at "M3" or briefly short the two leads at "CH". Shorting at "CH" will give you an audible tone. See Figure 2.
5. Turn the elevator phone over so you can see the front and PRESS the "CALL" button.
6. Make sure that the red light on the front of the elevator phone turns on. If it does not, go back to step 4 and start again..

7. Pick up the tone phone handset and listen for the elevator phone to dial.
8. Two seconds after the elevator phone dials you will normally hear a tone, a two second pause and a pre-recorded voice message will begin cycling with a tone at the end of the message.. IF YOU DO NOT HEAR A VOICE MESSAGE IT MAY MEAN THAT THE PHONE IS SET UP TO NOT PLAY THE VOICE MESSAGE OR TO DELAY THE VOICE MESSAGE (Voice Mode 5).
9. On the tone phone press "1" immediately after the tone at the end of the message. If there is no message do not press "1".
10. Listen to the tone phone handset and make sure the message is not cycling.
11. GO TO PROGRAMMING INSTRUCTIONS then return to next step.
12. Reconnect the elevator phone speaker.
13. Unplug 9 volt battery.
14. Unplug tone phone.
15. Test the phone completely.

METHOD C-SETUP SO ELEVATOR PHONE CAN BE REMOTELY PROGRAMMED WITH INSTALLER ON-SITE.

Either the elevator phone installer or the off-site programmer can do the programming.

1. Connect elevator phone by wiring phone line to "TELCO" block. See Figure 2.
2. Connect the 9 volt battery to the battery connector. See Figure 2.
3. Plug the tone phone into the black modular jack. See Figure 2.
4. Unplug the speaker. See Figure 2.
5. Turn the elevator phone over so you can see the front of the phone.
6. Using the tone phone dial the phone number of the person doing the programming.
7. When you have the off-site person on the phone line press the "CALL" button.
8. Make sure that the red light turns on. See Figure 1. Both the installer and the programmer will hear the phone dial.
9. Two seconds after the elevator phone dials both of you will hear a tone, a two seconds pause then a cycling pre-recorded voice message.. IF YOU DO NOT HEAR A VOICE MESSAGE IT MAY MEAN THAT THE PHONE IS SET UP TO NOT PLAY THE VOICE MESSAGE OR TO DELAY THE VOICE MESSAGE (Voice Mode 5).
10. Either the installer or the programmer should press a "1" immediately after the tone at the end of the message. If there is no message do not press "1".
11. The voice message should stop cycling.
12. GO TO PROGRAMMING INSTRUCTIONS and return to next step.

NOTE: After programming the installer and programmer will still be able to talk even though the elevator phone has turned off.

13. After the installer finishes talking to the programmer the installer should unplug the tone phone from the elevator phone.
14. Reconnect the elevator phone speaker. See Figure 2.
15. Unplug 9 volt battery. See Figure 2.
16. Test the phone completely.

ROGRAMMING INSTRUCTIONS

tep 1. Using the tone phone keypad press "#9000000". Listen for three beeps and ote that the red LED will be blinking.

IOTE ONE-

Press tone digits slowly and deliberately. Too slow, it ignores tones and too fast, it can't read tones.

NOTE TWO- Once you are in programming mode you can perform any programming tep in any sequence as long as you get three beeps.

Step 2. Press "#0- (first phone number to be dialed)-*#". Listen for three beeps.

EXAMPLE: "#05551212*#". If you are on a phone line that requires a "9" or some other digit to call the answering service put a "#" after the "9". This will give the internal phone system time to connect to the outside phone line. For example, "#09#5551212*#".

Step 3. Press "#1- (second phone number to be dialed)-*#.

EXAMPLE: "#18881212*#".

If no second number is to be dialed, press "#1*#". Listen for three beeps.

Step 4. Press "#2- (third number to be dialed)*#. Listen for three beeps. If a third number is not needed enter "#2*#". Listen for three beeps.

Step 5. Press "#3- (fourth number to be dialed)*#. Listen for three beeps. If a fourth number is not needed enter "#3*#". Listen for three beeps.

Step 6. Press "#7" and listen for the single beep. At the beep, record the location message by speaking into the tone phone handset. Immediately at the end of recording the voice message press "0". The voice message will play back for you and then you will hear three beeps. Note Maximum length of location message is nine seconds. If you need to modify the location message press "#7" and re-record. If you want to listen to the location message without changing it press "#8".

Step 7. If you want to test the programming and operation of the phone, you can press *#. The phone will turn off and then (2) two seconds later, it will turn on automatically. The phone will autodial the preprogrammed phone number(s) and play the location message. You may want to alert the person(s) receiving the call of what you are doing. Let him or her know that you are checking the programming and operation of the phone.

If you do not want to remotely test the programming and operation of the phone, go to STEP 8.

Step 8. Press "##". You will hear a beep and the elevator phone will turn off.

RETURN TO THE SETUP STEP IN PREVIOUS SECTION

Step 9. After installation test phone completely.

TO DISABLE THE VOICE PROMPT MESSAGE AND DELAY THE VOICE LOCATION MESSAGE, DO THE FOLLOWING:

The voice prompt message says- "At the tone press one to talk, press two for location"

.Press **#9000000**, listen for three beeps.

.Press **#*1180185*#**, listen for three beeps.

.Press ##

TO DISABLE THE VOICE PROMPT MESSAGE, DO THE FOLLOWING:

The voice prompt message says- At the tone press one to talk, press two for location"

.Press **#9000000**, listen for three beeps.

.Press **#*1180180*#**, listen for three beeps.

.Press ##

TO ENABLE VOICE PROMPT MESSAGE- The voice prompt message says "At the tone press one to talk, press two for location"

PRESS **#9000000**, listen for three beeps

.PRESS **#*1180181*#**, listen for three beeps.

.PROGRAM LOCATION MESSAGE. (SEE STEP 6 ABOVE)

.PRESS ##

TO ELIMINATE AUTODIALING

.Press **#9000000**, listen for three beeps.

.Press **#0*#**, listen for three beeps, Press **#1*#**, listen for three beeps.

.Press ##

OPERATING INSTRUCTIONS

A. TRAPPED PASSENGER CALLING OUT

1. Passenger presses "CALL" button. Red light on elevator phone turns on.
2. Passenger hears dialtone and dialing of first phone number.
3. Passenger hears ringing intermittently.

NOTE-TWO WAY VOICE COMMUNICATION WILL BE ESTABLISHED AFTER THE OPERATOR PRESSES A DIGIT ON THEIR TONE PHONE.

4. Passenger hears a tone two seconds after elevator phone dials and every 7 seconds until the operator responds to the call.
5. If first phone number is not answered within 42 seconds the elevator phone will hang up and dial the second phone number and the same sequence of events will occur.
6. Once the receiving operator responds to the call with a tone digit the passenger and the operator will be able to communicate.

After Green light turns on, the operator can request the passenger to press the "CALL" button again. This action will send an audible signal to the operator to let operator know that someone is actually stuck in the elevator and not just a prank call. This action is normally only important for someone who can not speak.

B. RESPONDING OPERATOR-WITH PROMPT MESSAGE ENABLED

1. Operator hears ringing of incoming call from elevator and answers call.
2. Operator hears a cycling message from the elevator phone stating "ELEVATOR CALL, AT THE TONE PRESS ONE TO TALK, PRESS TWO FOR LOCATION". The message will keep repeating until the operator press a "1" or "2" after the tone on their tone phone.
3. The passenger does not hear any voice messages.
4. Normally the operator should press "1" after the tone at the end of the message to quickly establish two way voice communication with the trapped passenger.
5. At any time the operator can press "2" to hear the location of the elevator.
6. In elevators with a lot of background noise the operator can press "#" to mute the microphone. Pressing any other tone digit will enable the microphone.
7. At the end of the location message another message will be heard by the operator that says, "PRESS ZERO TO ALERT PASSENGER OF RESCUE."
8. When the operator presses "0" on their tone phone they will hear three beeps. the Red light on the elevator phone will begin blinking. At this time the passenger knows that the call has been received because wording printed on the phone box states "Blinking Indicates Call Answered Help Is On The Way".
9. The operator can request that the passenger press the "CALL" button again. If the passenger presses the button the operator will hear a diddle-diddle sound. For the operator this means that there is a passenger in the elevator.

. Prior to the phone timing off (normally 3 minutes, the operator will hear this message twice, "TO AVOID DISCONNECT PRESS THREE NOW"

11. If the operator presses "3" on their tone phone within ten seconds after this message, the elevator phone will stay on for another three minutes. The message will be repeated every three minutes for the duration of the call so that the operator can keep the passenger on the line until help arrives or as long as needed.

ALTERNATE B.-WITH DELAYED LOCATION MESSAGE -VOICE MODE 5
ALL OPERATING STEPS ARE THE SAME EXCEPT

1. Operator answers incoming call and begins talking to passenger.
2. Seventeen seconds after the call is dialed the operator will hear the location message followed by the message to , "PRESS ZERO TO ALERT PASSENGER OF RESCUE."
3. Both messages will repeat every 20 seconds until the operator presses "0".

C. OPERATOR CALLING INTO ELEVATOR PHONE

1. Operator dials the phone number of the elevator phone and hears ringing.
2. After five rings the elevator phone turns on automatically and operator will hear diddle-diddle-diddle sound.
3. At this time the operator and passenger can talk. All other operations are the same.

D. PASSENGER RECEIVING CALL FROM OPERATOR

1. Passenger hears elevator phone ringing. Phone turns on automatically after 5 rings, OR
2. Passenger can push "CALL" button to turn elevator phone on.
3. When elevator phone turns on the passenger and operator can communicate.

ELECTRONIC MICRO SYSTEMS INC.
125 Ricefield Lane
Hauppauge, NY 11788
631-864-4742, 800-333-3671 Fax: 631-864-4770, 888-333-3671

FCC INFORMATION

The HFP2.6 complies with Part 68 of the FCC Rules. The label affixed to this equipment contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company.
The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. Inmost, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five *(5.0)*. To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

The following jacks must be ordered from the telephone company in order to interconnect this equipment with the public communication network: RJ11.

An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is part 68 compliant. See Installation Instructions for details.

If this device causes harm to the telephone network, the 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 be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

BATTERY INFORMATION

The EMS elevator phone has been redesigned. The following information is about when a battery or power pack is needed and the use of different types of batteries.

ALKALINE BATTERY: Can be used on all phone lines. The battery will need to be checked every 6 months. No AC connection is required and the battery cannot be trickle charged. For uninterrupted service, use the following guidelines:

1. will need a 9VDC battery or a power pack when:
   The phone will be programmed on site using a portable phone plugged into the black jack on the back of the phone board.
2. The phone drops off the telephone line without completing the call.
3. There is more than one phone on the same telephone line and there is a need to call back to a specific elevator phone, or if all elevator phones need to be "ON" at the same time.

For testing, any charged 9 volt battery can be used.

LITHIUM BATTERY: Can be used on all phone lines. The battery will need to be checked every 6 months. No AC connection is required and the battery cannot be trickle charged.

POWER PAK: Can be used on all phone lines. The Ni-Cad battery in the power pack will need to be checked every 6 months.

NI-CAD BATTERY: Can be used only on internal phone systems or when the optional power pack is used. Internal phone system require an access digit such as a "9" to obtain a telephone line to allow dialing to a phone number outside the building.
Note: For the Ni-Cad battery to maintain its charge, you must place a shorting jumper over the two pins labeled "BC". The Ni-Cad battery will need to be checked every 6 months. See diagram.

INSTRUCTIONS FOR OPERATING THE OTIS HANDSOFF ADA PHONE
(Can be placed on back of phone cabinet door)

1. PRESS THE SILVER "CALL" BUTTON ONCE
2. RED LIGHT WILL TURN ON
3. PHONE WILL DIAL AND BEGIN SENDING PROMPT MESSAGE TO ANSWERING SERVICE
4. BE PATIENT-OPERATORS MAY BE BUSY
5. AFTER YOU HEAR A LOUD AND LONG TONE, YOU WILL BE ABLE TO TALK TO THE OPERATOR
6. WAIT FOR OPERATOR TO ADDRESS YOU
7. IF YOU CANNOT TALK, WHEN THE GREEN LIGHT TURNS ON,PRESS THE "CALL" BUTTON AGAIN.
8. IF YOU CANNOT HEAR DO STEP 7 AND THEN BEGIN TALKING