NetworX

NX534-E

TWO WAY LISTEN-IN AUDIO MODULE
INSTALLATION MANUAL

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GENERAL DESCRIPTION

The NX534-E is a two-way audio (voice) communicator that may be added to a new or existing NX8 / NX8-E alarm panel. Once the alarm panel has communicated an alarm, the NX534-E will allow a monitoring service operator the ability to monitor a customer's premise for "listen-in" purposes or basic two-way voice communication. This procedure is controlled from the Central Station by use of a touch tone telephone. (See "General Operating Instructions" and "Control Levels" on pages 3 - 4.)

FEATURE DEFINITIONS

Anti-Lockup Tone
If enabled, a tone will be heard at the Central Station during a two-way session every few seconds (programmable). During this tone the NX534-E disables the microphones so that it can detect a keypress from the Central Station. This is useful in a noisy environment to prevent a loss of Central Station control. If this occurs, press and hold the [**1**] key to engage the "Talk" mode. (Location 3)

Callback Mode
If programmed for this mode, the NX534-E will start a timer when the control panel releases the line. (Location 0, Segment 1 and Location 3, Segment 3) During this time, the Central Station can call the premise and begin the two-way session by entering the callback access code (Location 1).

Call-In Mode
If programmed for this mode, the homeowner can call the premise and listen to the audible conditions within the home. The number of rings programmed in location 4, segment 4 instructs the NX534-E when to pick up the line. A zero "0" disables for this function. A master code is required within 20 seconds after pickup to operate this function.

Call-In Mode Answering Machine Defeat
If this feature is enabled, the NX534-E will listen for 4 seconds for a master code after an answering machine or some other device has answered the premise telephone. The user will have 30 seconds to enter the code. Call-In must be enabled in Location 4, Segment 4. (Location 0, Segment 6)

High Gain and Low Gain Listen-in Mode
When Central Station selects one of these two modes, they can only Listen-in. "High Gain" Listen-in will generally be used in environments that produce very low noise. "Low Gain" Listen-in would be used in environments where background noise may distort the audio while they listen-in. (Location 4, Segments 1 & 2)

Line Hold Mode
If programmed for this mode, the NX534-E will seize the line immediately after the control panel releases the line. The two-way session will begin instantly or when the Line Hold digit is entered, if programmed. (Location 0, Segment 1, Location 2, and Location 3, Segment 1)

Speaker Lockout
If this feature is enabled and the NX8 / NX8-E reports a Duress, Silent Panic, or Holdup alarm, the NX534-E will not allow the Central Station to turn the speaker on at the site.

GENERAL OPERATING INSTRUCTIONS

The system will operate in the following manner, regardless of how a two-way session is started.

- The session timer is started (see location 3).
- All microphones are on (see location 0).
- Low gain listen-in audio mode is selected (automatic).
- Level 0 command set is active (automatic).

The NX534-E will operate in one of two modes that must be programmed in Location 0, Segment 1. **LINE HOLD or CALL BACK**. The following explains how the NX534-E will operate in these two modes:

LINE HOLD MODE

① An alarm is recognized.

② The phone line is seized from the control panel and all premise phones.

③ Line disconnects (goes off hook).

④ The NX534-E sends a tone indicator to the central station. (See "Tones" on page 5)

⑤ If a line hold digit (Location 2) has been programmed, the system will wait for the digit to be received before a two-way session is started. If the digit is not received before the time-out period (Location 3, Segment 1), then the system will return to the stand-by mode and wait for a new trip.

⑥ If the line hold digit is received or not programmed, the system will start a two-way session.

CALLBACK MODE

① An alarm is recognized.

② The phone line is seized from the control panel and all premise phones.

③ The NX534-E starts the callback window timer (Location 3, Segment 3). If the time runs out before the number of rings has been reached, the system will return to the stand-by mode and wait for a new trip.

④ Waits to receive the callback, up to the selected number of minutes programmed in Location 3, Segment 3 for the first ring.

⑤ Sends a continuous indicator tone to the Central Station until the access digit is received, or the maximum number of attempts in Location 3, Segment 4 is exhausted. When a digit is received, the indicator tone is silenced.

⑥ Wait for the access digit (see Location 1) to match. The reset [#] key may be used during pin entry to clear the PIN buffer. If the access digit does not match after a set number of attempts (see Location 3, Segment 4) the system will return to the stand-by mode and wait for a new trip. If the digit is validated, the system will silence the siren and start a two-way session.

CONTROL LEVELS

The following is a description of the levels and how they may be used. Levels of the modes may be changed at any time by pressing [✱] followed by the level number you wish to access. If no key is pressed for three seconds, then the buffer is automatically cleared. You may press [✱]-[0] to return to the beginning. **NOTE: Levels 1, 2 and 4 are not supported. Attempts to access these levels will revert to Level 0.**

If a new alarm in the ***same partition*** is activated during a two-way session, the session timer can be extended by pressing a key during the time period programmed in Location 3, Segment 2. If a new alarm in a ***different partition*** is activated during a two-way session, the timer will be reduced to 20 seconds, and cannot be extended.

	DIGIT	BASIC CONTROL LEVEL
LEVEL 0	0	Returns to the initial session settings when it is tripped. This includes the microphone selection and audio mode.
	1	High gain talk to the premises and extends session time.
	3	High gain listen-in from the premises and extends session time.
	2, 4, 5, 7, 8, 9	Extends session time.
	6	Low gain listen-in from the premises and extends session time.
	88	Terminates session and starts the call back mode.
	99	Terminates session and returns to the stand-by mode and waits for a new trip.
LEVEL 3		MICROPHONE CONTROL (ZONING)
	0	Returns to the initial session settings when it was tripped. This includes the microphone selection and audio mode.
	1	Turns microphone 1 on, microphone 2 off, and extends session time.
	2	Turns microphone 2 on, microphone 1 off, and extends session time.
	3, 4, 5, 6, 7, 8	Extends the session time.
	9	Turns both microphones on and extends the session time.
LEVEL 5		OUTPUT / RELAY CONTROL LEVEL (NEGATIVE—TURN OFF) NOTE: This feature requires X-10 Interface.
	0	Returns to the initial session settings when it is tripped. This includes the microphone selection and audio mode.
	1 - 9	Turns the corresponding output/relay OFF. A negative confirmation tone (two low beeps) will be heard. Refer to Tone chart on page 5.
LEVEL 6		OUTPUT / RELAY CONTROL LEVEL (POSITIVE—TURN ON)
	0	Returns to the initial session settings when it is tripped. This includes the microphone selection and audio mode.
	1 - 9	Turns the corresponding output/relay ON. A positive tone will be heard.
LEVEL 7		STATUS CHECK
	0	Returns to the initial session settings when it is tripped. This includes the microphone selection and audio m
	1	"Armed" status: If Partition 1 is armed, a positive tone will be heard. If disarmed, a negative tone will be heard.
	2	"Ready" status: If Partition is in "Ready" status, a positive tone will be heard. If it is not "Ready", a negative tone will be heard.
	3	"Power" status: If AC and battery are good, a positive confirmation tone will be heard. If either AC or battery is bad, a negative tone will be heard.
	4 – 9	Extends the session time.
LEVEL 8		ARMING / DISARMING PARTITION 1
	0 – 9	Enter your PIN "user" code to arm or disarm the system. If Partition 1 is armed, a positive beep will be heard. If Partition 1 is disarmed, a negative beep will be heard.

TONES

Indicator tones may be heard at the central station during a two-way session. The definition of these indicator tones is as follows:

LOW = 400 Hz MID = 1000 Hz HIGH = 1600 Hz

TONE	DESCRIPTION
One high tone for 100 mS	Time remaining indicator “A “
One mid tone for 100 mS	Time remaining indicator “B”
One mid tone for 100 mS, off for 100 mS, one high tone for 100 mS	New alarm alerts for same partition
One high tone for 100 mS, off for 100 mS, one mid tone for 100 mS, off for 100 mS, one high tone for 100 mS	New alarm alerts for different partition
Continuous on/off high tone every 100 mS; will stop after a digit is received	System waiting for access pin
One low tone for 200 mS (if enabled)	Anti lock-up
One mid tone for 500 mS	Acknowledgement to level change command
One mid tone for 250 mS, off for 250 mS, one mid tone for 250 mS, off for 250 mS, one mid tone for 250 mS	Error tone
One low tone for 100mS	Relay / Output turned ON, or Positive “Status” response, or Partition 1 armed
One low tone for 100mS; off for 200mS; one low tone for 100 mS	Relay / Output turned OFF, or Negative “Status” response, or Partition 1 disarmed

PROGRAMMING THE NX534-E AUDIO MODULE

USING THE LED KEYPAD

Entering the Program Mode:
To enter the Program Mode, press [✱]-[**8**]. At this time, the five function LEDs (Stay, Chime, Exit, Bypass, & Cancel) will begin to flash. Next, enter the "Go To Program Code" (Factory Default is [**9**]-[**7**]-[**1**]-[**3**]). If the “Go To Program Code" is valid, the "Service" LED will flash and the five function LEDs will illuminate steady. You are now in the Program Mode and ready to select the module to program.

Selecting the Module to Program:
Enter the address of the NX534-E, which is [**6**]-[**4**], followed by [#]. The Armed LED will illuminate while it is waiting for a programming location to be entered.

Programming a Location:
Once the number of the module to be programmed has been entered, the "Armed" LED will illuminate, indicating it is waiting for a programming location to be entered. Any location can be accessed by directly entering the desired programming location followed by the pound [#] key. If the location entered is a valid location, the "Armed" LED will extinguish, the "Ready" LED will illuminate, and the zone LED’s will show the binary data for the first segment of this location. While entering new data, the "Ready" LED will begin flashing to indicate a data change in process. The

flashing will continue until the new data is stored by pressing the [✱] key. Upon pressing the [✱] key, the keypad will advance to the next segment and display its data. This procedure is repeated until the last segment is reached. Pressing the [#] key will exit from this location, and the "Armed" LED will illuminate again waiting for a new programming location to be entered. If the desired location is the next sequential location, press the [POLICE] key. If the previous location is desired press the [FIRE] key. If the same location is desired press the [MEDIC] key. To review the data in a location, repeat the above procedure, pressing the [✱] key without any numeric data entry. Each time the [✱] key is pressed, the programming data of the next segment will be displayed for review.

Exiting a Location:
After the last segment of a location is programmed, pressing the [✱] key will exit that location, turn the "Ready" LED off and the "Armed" LED on. As before, you are now ready to enter another programming location. If an attempt is made to program an invalid entry for a particular segment, the keypad sounder will emit a triple error beep (beep, beep, beep) and remain in that segment awaiting a valid entry.

Exiting the Program Mode:
When all the desired changes in programming have been made, it is time to exit the program mode. Pressing the [**Exit**] key will exit this programming level, and then return to the "Select a Module to Program" level. If no additional modules are to be programmed, pressing the [Exit] key again will exit the program mode. If there is a module to be programmed, it may be selected by entering its address followed by the [#] key (see "Selecting the Module To Program" above). The procedure for programming these devices is the same as for the control panel, except the locations will be for the module selected.

USING THE LCD KEYPAD

All steps required for programming are the same as the aforementioned LED keypad. The LCD keypad display will prompt you for the data required. While in the programming mode, and not in a location, the number in parenthesis is the location you were previously changing. For example, if the display reads "Enter location, then # (5)", it is reminding you that location 5 was the last location you programmed. See also to "Programming Data".

PROGRAMMING DATA

Programming data is always one of two types. One type of data is numerical, which can values from 0 -15 or 0-255 depending on the segment size. The other type of data, feature selection data, is used to turn features on or off. Use the following procedures with these two data types:

Numerical Data: Numerical data is programmed by using the numeric keys of the system keypad to enter a number from 0-255. To view the data in a location, a binary process is used. With this process, the LED's for zones 1 through 8 are utilized, and the numeric equivalents of their illuminated LED's are added together to determine the data in a programming location. The numeric equivalents of these LED's are as follows:

Zone 1 LED = **1**	Zone 3 LED = **4**	Zone 5 LED = **16**	Zone 7 LED = **64**
Zone 2 LED = **2**	Zone 4 LED = **8**	Zone 6 LED = **32**	Zone 8 LED = **128**

Example: If the numerical data to be programmed in a location is "66", press [**6**]-[**6**] on the keypad. The LED's for Zone 2 and Zone 7 will become illuminated indicating 66 is in that location (2 + 64 = 66). Once the data is programmed, press the [✱] key to enter the data and advance to the next segment of that location. After the last segment of a location is programmed, pressing the [✱] key will exit that location, turn the "Ready" LED off and the "Armed" LED on. As before, you are now ready to enter another programming location. If an attempt is made to program a number too large for a particular segment, the keypad sounder will emit a triple beep, indicating an error, and remain in that segment awaiting a valid entry.

Feature Selection Data: Feature selection data will display the current condition (on or off) of eight features associated with the programming location and segment selected. Pressing a button on the touchpad (1 through 8) that corresponds to the "feature number" within a segment will toggle (on/off) that feature. Pressing any numeric key between [**1**] and [**8**] for selection of a feature will make the corresponding LED illuminate (feature ON). Press the number again, and the LED will extinguish (feature OFF). You will see that numerous features can be selected from within one segment. For instance, if all eight features of a segment are desired, pressing [**1**]-[**2**]-[**3**]-[**4**]-[**5**]-[**6**]-[**7**]-[**8**] will turn on LED's 1 through 8 as you press the keys, indicating that those features are enabled. **LCD Keypad Users Note: The numbers of the enabled features will be displayed. However, the features not enabled will display a hyphen (-).** After the desired setting of features is selected for this segment, press the [✱] key. This will enter the data and automatically advance to the next segment of the location. When you are in the last segment of a location and press the [✱] to enter the data, you will exit that location. This will now turn the "Ready" LED off and the "Armed" LED on. As before, you are now ready to enter another programming location.

PROGRAMMING THE NX534-E LOCATIONS

LOCATION 0: PROGRAMMING FEATURES (1 Segment of Feature Selection Data)

1 = LINE HOLD OR CALLBACK MODE (Default = Line Hold Mode)
This option determines if the NX534-E will operate in the Line Hold or Callback mode when a Listen-in trigger is received. If it is programmed “Off”, the NX534-E will not release the line after any communication, which causes a Listen-in session to be triggered. The Listen-in session will start immediately. If this option is programmed “On”, the NX534-E will release the line and wait for the Central Station to call it back before starting a Listen-in session. Default is “Off”, Line Hold mode.

2 = NORMAL TWO-WAY OR LISTEN-IN ONLY (Default = Normal Two-way)
This feature determines if the NX534-E will operate in the Normal Two-way mode or Listen-In Only mode. The Listen-In Only mode will only allow the central station to listen to the activity at the premise. If this option is programmed “Off”, the NX534-E will function in the Normal Two-way mode, and allows the Central Station to communicate with the person(s) at the premise. The procedure is controlled from the Central Station by using keypresses on a touch tone telephone.

3 = SPEAKER LOCKOUT CONDITION (Default = Off)
This feature is used to determine the speaker lockout condition. When this option is “Off” the Automatic Speaker Lockout is enabled. If this feature is “On”, the Speaker Lockout will be disabled. (Refer to Feature Definitions on page 2.)

4 = MICROPHONE “A” START-UP SELECTION (Default = On)
This option is used to determine if microphone “A” will be active when the session is started. Enabling this feature will turn on microphone “A” at start-up. At default, this feature is enabled.

5 = MICROPHONE “B” START-UP SELECTION (Default = On)
This option is used to determine if microphone “B” will be active when the session is started. Enabling this feature will turn on microphone “B” at start-up. At default, this feature is enabled.

6 = CALL IN FEATURE ANSWERING MACHINE DEFEAT ENABLED (Default = Off)
This feature will enable the answering machine defeat. (Note: Call-In must be enabled in Location 4, Segment 4.) When a call-in is made, at least one ring must be received. The line is picked up and the NX534-E is listening for a master code to be entered within the 30-second time limit. If the answering machine defeat is enabled, even if someone picks up the phone the NX534-E is still looking for the code. If this feature is not enabled, the NX534-E will wait for the number of rings programmed in Location 4, Segment 4.

7 = ENABLE CONTROL LEVELS 7 & 8 (Default = Off)
This feature will enable Level 7 – Status Check and Level 8 – Arming/Disarming Partition 1. Factory default for this segment is off.

8 = RESERVED

LOCATION 1: CALLBACK ACCESS CODE (Default = 123456) (6 Segments of Numerical Data)

Location 1 contains the access code used to start a Listen-in session when the NX534-E is in a callback mode. The callback access code can be up to a maximum of 6 digits. The valid entries are 0 - 15 (10 = ✱, 11 = #, 12 = none, 13 thru 15 = any digit). If less than six digits are desired, program a "15" at the end of the desired code. If location 1 contains a "15", any digit will access the NX534-E. If segment 1 is a "12", no access code is required.

LOCATION 2: LINE HOLD MODE ACCESS DIGIT (Default = 15(F) (1 Segment of Numerical Data)

Location 2 is used to determine the line-hold access digit. This digit is required to start a two-way session if line-hold mode is used. Valid entries are 0 - 15 (10 = ✱, 11 = #, 12 = none, 13 thru 15 = any digit). If segment 1 is a "12", no access digit is required. If it is programmed as a "15", any digit will access.

LOCATION 3: TIMING OPTIONS (8 Segments of Numerical Data)

SEGMENT 1 - LINE HOLD TIMEOUT (Default = 60 seconds)
Location 3, Segment 1 determines how long the NX534-E will wait for the line-hold digit programmed in Location 2 while in the line-hold mode. After a digit is pressed, the timer will reset. If the digit is not received during this time, the NX534-E will hang-up (disconnect). This time is programmable from 10 to 255 seconds for each digit.

SEGMENT 2 - NEW TRIP HANGUP TIME (Default = 20 seconds)
Location 3, Segment 2 is used to determine where the NX534-E will set the session timer when a new trip is received on the same partition during a two-way session. This time is programmed from 1 to 255 seconds, and will be extended if there is any activity from the Central Station. If an alarm occurs in the *same* partition, pressing a key in this time period will extend the session timer. If the alarm is in a *different* partition, the timer will be reduced automatically and will now allow the timer to be restarted.

SEGMENT 3 - CALLBACK WINDOW TIMER (Default = 5 minutes)
Location 3, Segment 3 will determine the amount of time, in 1-minute increments, the NX534-E will wait for a callback when enabled in Location 0, Segment 1 or initiated by the Central Station (see also "Control Levels" on page 4). Possible increments are 1 to 255 minutes.

SEGMENT 4 - WRONG PIN DIGIT ENTRIES (Default = 12)
Location 3, Segment 4 determines the maximum number of digits that can be entered for Callback and Call-In features. (Refer to Location 0, Segments 1 and 6.) Valid entries are 6 – 255. Default is set for 12 digits.

SEGMENT 5 - SESSION INACTIVITY HANG-UP TIME (Default = 90 seconds)
Location 3, Segment 5 is used to determine how long the NX534-E will remain on the phone line with no activity from the Central Station. This time can be programmed from 30 to 255 seconds.

SEGMENT 6 - TIME REMAINING TONE INDICATOR "A" (Default = 20 seconds)
Location 3, Segment 6 is used to determine how many seconds will remain when the NX534-E sends tone indicator "A" to the Central Station. This time is used to alert the Central Station that the two-way session will be terminated if there is no further activity from the Central Station. Valid entries are 1 to 255 seconds.

SEGMENT 7 - TIME REMAINING TONE INDICATOR "B" (Default = 10 seconds)
Location 3, Segment 7 is used to determine how many seconds will remain when the NX534-E sends tone indicator "B" to the Central Station. This time is used to alert the Central Station that the two-way session will be terminated if there is no further activity from the Central Station. Valid entries are 1 to 255 seconds.

SEGMENT 8 - ANTI-LOCK-UP TONE TIME (Default = 0 seconds)
Location 3, Segment 8 is used to determine at what interval the anti-lock-up tone will be heard at the Central Station. This tone is used to prevent noise in an exceptionally loud environment from interfering with Central Station's control of the two-way session. The possible values are 0 – 255 seconds. If a zero "0" is programmed (default), it is disabled and no tone will be generated.

LOCATION 4: VOLUME / RING CONTROL (4 Segments of Numerical Data)

SEGMENT 1 - LOW GAIN LISTEN-IN MODE MICROPHONE VOLUME (Default = 5)
Location 4, Segment 1 controls the volume of the microphones when Low-Gain Listen-in Mode is selected by the Central Station. The possible values for this location are 0 to 9 (maximum volume is 9 and minimum is 0).

SEGMENT 2 - HIGH GAIN LISTEN-IN MODE MICROPHONE VOLUME (Default = 9)
Location 4, Segment 2 controls the volume of the microphones when High-Gain Listen-in Mode is selected by the Central Station. The possible values are 0 to 9 (maximum volume is 9, minimum volume is 0).

SEGMENT 3 - SPEAKER VOLUME (Default = 9)
Location 4, Segment 3 governs the volume of the speaker when talk is selected by Central Station. The possible values for Location 4 are 0 to 9 (maximum volume is 9, minimum volume is 0).

SEGMENT 4 - NUMBER OF RINGS TO ANSWER FOR CALL-IN FEATURE (Default = 0)
Location 4, Segment 4 determines the number of rings the NX534-E must see before answering the call while in the Call-in mode (refer to Location 0, Segment 6). Valid entries are 0 - 9. If a zero "0" is programmed, it is disabled. A master code is required within 20 seconds of the line pickup or the line will be disconnected.

LOCATION 5: PROGRAMMING X-10 ADDRESS FOR OUTPUT 1 (2 Segments of Numerical Data)

✎ **IMPORTANT NOTE: An X-10 interface module, i.e. NX507E, NX508E or NX540, must be present for this feature to work properly.**

SEGMENT 1 – MODULE NUMBER (Default = 0)
Location 5, Segment 1 contains the X-10 ***Module Number***. Program a number from 0 – 15 to represent the corresponding X-10 Module Number from the following table.

Module #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Seg 1	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**

SEGMENT 2 – HOUSE CODE (Default = 0)

Location 5, Segment 2 contains the X-10 House Code. Program a number 0 – 15 to represent the corresponding X-10 House Code from the following table.

X-10 ADDRESS CODES	**0 = A**	**4 = E**	**8 = I**	**12 = M**
	1 = B	**5 = F**	**9 = J**	**13 = N**
	2 = C	**6 = G**	**10 = K**	**14 = O**
	3 = D	**7 = H**	**11 = L**	**15 = P**

LOCATIONS 6 – 13: PROGRAMMING X-10 ADDRESS FOR OUTPUTS 2 – 9 (2 Segments of Numerical Data)

Locations 6 through 13 are used to program the X-10 Address for Outputs 2 – 9. Each location has 2 segments. Segment 1 contains the ***Module Number*** and Segment 2 contains the ***House Code***. Refer to the instructions in location 5, as well as the charts shown above and the worksheets beginning on page 11.

PROGRAMMING WORKSHEETS

(Defaults are in ***Bold Italics*** text)

LOC	PAGE	DESCRIPTION		DATA	DEFAULT
0	**7**	**OPTION FLAGS (Circle the ones to program)**			
		1	Off = Line Hold mode; On = Callback mode		Off
		2	Off = Normal two-way; On = Listen-In only		Off
		3	Off = Automatic speaker lock-out; On = Speaker lock-out disabled		Off
		4	***Microphone A condition at startup***		***On***
		5	***Microphone B condition at startup***		***On***
		6	On = Call-in feature answering machine defeat enabled		Off
		7	On = Enable Levels 7 & 8		Off
		8	Reserved		- -
1	**8**	**CALLBACK ACCESS CODE** 10 = ✱, 11 = #, 12 = none, 13 thru 15 = any digit		_ _ _ _ _ _	***1 2 3 4 5 6***
2	**8**	**LINE HOLD DIGIT** 10 = ✱, 11 = #, 12 = none, 13 thru 15 = any digit		____	***15 (F)***
3	**8**	**TIMING OPTIONS**			
		Segments (Circle the ones to program)			
		1	Line Hold timeout (10 – 255 seconds)		***60***
		2	New trip hang up time (1 – 255 seconds)		***20***
		3	Callback window (1 – 255 minutes)		***5***
		4	Maximum number of digits during code entry (6 – 255)		***12***
		5	Session inactivity hang-up time (30 – 255 seconds)		***90***
		6	Point for time remaining tone “A” (1 – 255 seconds)		***20***
		7	Point for time remaining tone “B” (1 – 255 seconds)		***10***
		8	Anti-Lockup tone time (0 – 255 seconds, 0 = disable)		***0***
4	**9**	**VOLUME / RING CONTROL**			
		Segments (Circle the ones to program)			
		1	Low Gain microphone volume (0 – 9)		***5***
		2	High Gain microphone volume (0-9)		***9***
		3	Speaker volume (0 – 9)		***9***
		4	Number of rings for call-in feature (0- 9, 0 = disable)		***0***
5	**9**	**X-10 ADDRESS FOR OUTPUT 1**			
		Segments			
		1	Module Number		***0***
		2	House Code		***0***

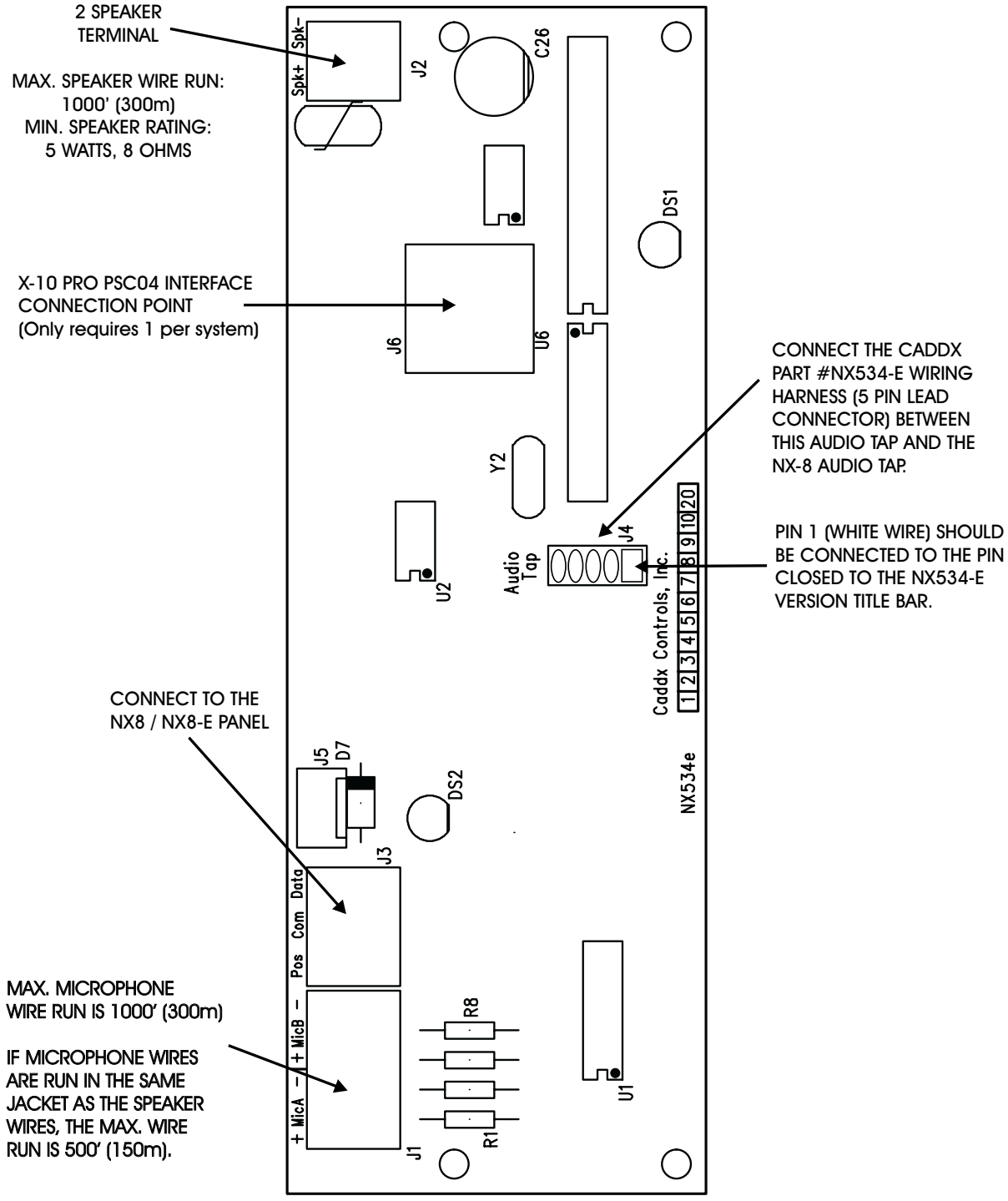
X-10 HOUSE CODES			
0=A	4=E	8 =I	12=M
1=B	5=F	9 =J	13=N
2=C	6=G	10=K	14=O
3=D	7=H	11=L	15=P

LOC	PAGE	DESCRIPTION	DATA	DEFAULT
6	10	**X-10 ADDRESS FOR OUTPUT 2**		
		Segments		
		1 Module Number		***1***
		2 House Code		***0***
7	10	**X-10 ADDRESS FOR OUTPUT 3**		
		Segments		
		1 Module Number		***2***
		2 House Code		***0***
8	10	**X-10 ADDRESS FOR OUTPUT 4**		
		Segments		
		1 Module Number		***3***
		2 House Code		***0***
9	10	**X-10 ADDRESS FOR OUTPUT 5**		
		Segments		
		1 Module Number		***4***
		2 House Code		***0***
10	10	**X-10 ADDRESS FOR OUTPUT 6**		
		Segments		
		1 Module Number		***5***
		2 House Code		***0***
11	10	**X-10 ADDRESS FOR OUTPUT 7**		
		Segments		
		1 Module Number		***6***
		2 House Code		***0***
12	10	**X-10 ADDRESS FOR OUTPUT 8**		
		Segments		
		1 Module Number		***7***
		2 House Code		***0***
13	10	**X-10 ADDRESS FOR OUTPUT 9**		
		Segments		
		1 Module Number		***8***
		2 House Code		***0***

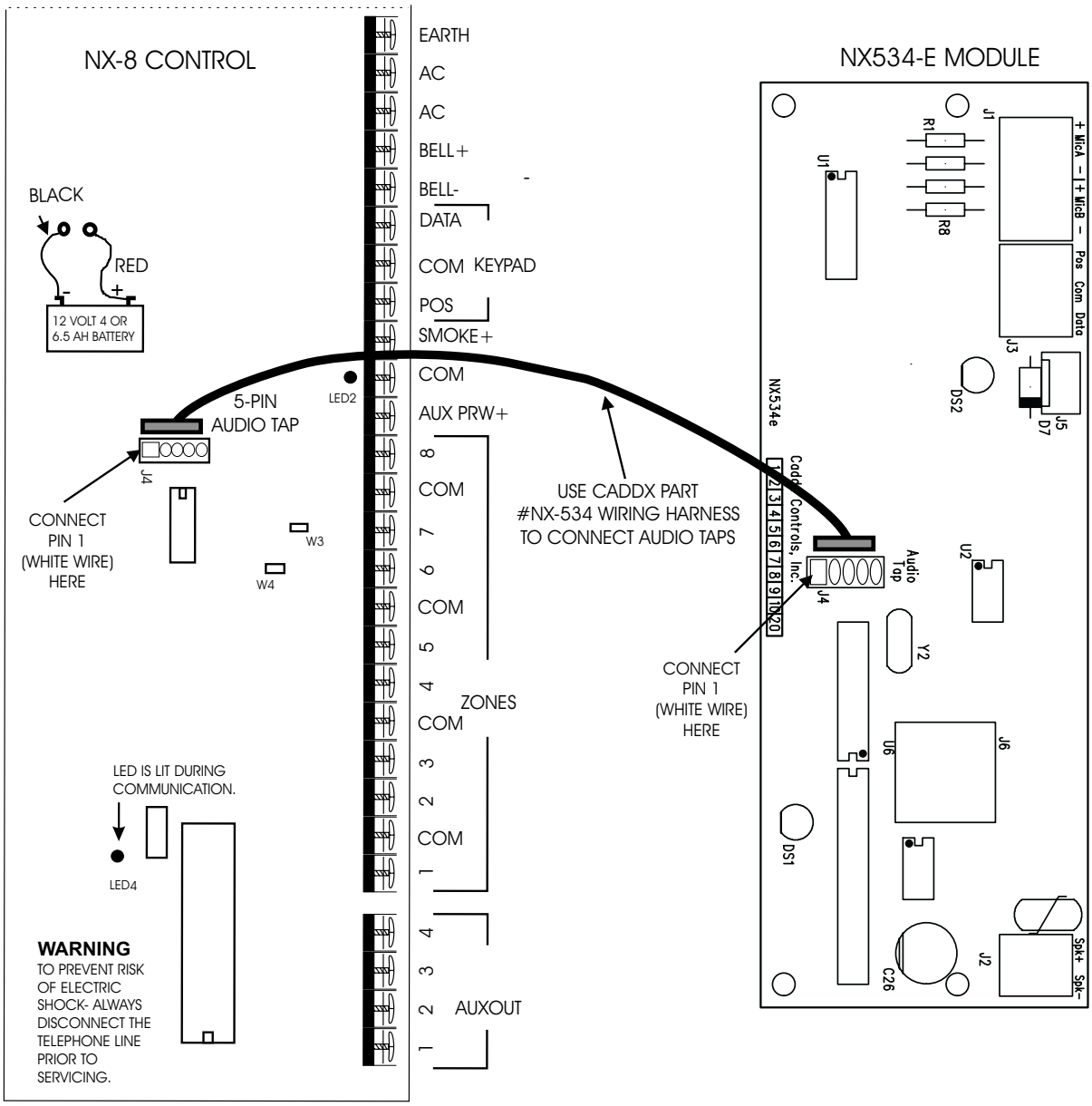
X-10 HOUSE CODES

0=A	4=E	8 =I	12=M
1=B	5=F	9 =J	13=N
2=C	6=G	10=K	14=O
3=D	7=H	11=L	15=P

NX534-E LAYOUT & SPECIAL NOTES



CONNECTION DIAGRAM



TERMINAL #	DESCRIPTION
1	Connect positive side of microphone #A.
2	Connect negative side of microphone #A.
3	Connect positive side of microphone #B.
4	Connect negative side of microphone #B.
POS	Connect to the POSITIVE keypad terminal of NX8 / NX8-E control panel.
COM	Connect to the COM keypad terminal of the NX8 / NX8-E control panel.
DATA	Connect to the DATA keypad terminal of the NX8 / NX8-E control panel.
SPK+	Connect to the speaker(s). Maximum speaker wire run: 1000' (300m). Minimum speaker rating: 5 Watts, 8 Ohms. Do not go below 4 ohms.
SPK-	

SYSTEM NOTES

SPECIFICATIONS

POWER SUPPLY	**NX8 / NX8-E CONTROL**
OPERATING VOLTAGE	**9 – 14 VOLTS DC**
CURRENT (STANDBY)	**50mA**
IN SESSION	**100mA**
OPERATING TEMPERATURE	**32° – 120° F**
DIMENSIONS	**2.5” W**
	6.0” L
	1.0” H
TELEPHONE REQUIREMENTS	**TOUCHTONE**

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NX534-E INSTALLATION MANUAL
NX534EIC00 REV C (01/19/01)