NetworX

NetworX™ Series

NX-8E-CF Control Panel

Installation and Startup

These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to be met during installation, operation, and maintenance. If further information is desired or if particular problems arise that are not covered sufficiently for the purchaser's purpose, the matter should be referred to GE Security.

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Please refer to the current GE Security product catalog for detailed warranty information.

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Outside the US	903-845-6941	Sales & Literature	800-547-2556
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SAFETY SYMBOL LEGEND

 **Warning**	Indicates a procedure, practice, condition, or statement that, if not strictly observed, could result in personal injury. * This symbol indicates electrical warnings and cautions.
 **Caution**	Indicates a procedure, practice, condition, or statement that, if not strictly observed, could result in damage to or destruction of equipment or property. ** This symbol indicates general warnings and cautions.
 **Note**	Indicates an essential or important procedure, instruction, condition, or statement.
 **Tip**	Indicates a user tip. Provides helpful information that is not normally defined in regular use, but from an experienced user.

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I. GENERAL DESCRIPTION

The NetworX NX-8E-CF represents a new approach to security systems design. Drawing on our experience in the world market as the largest exporter of USA manufactured controls, we have developed the most flexible, durable, and user-friendly control ever seen in our industry. Featuring sophisticated software, which allows up to 240 users to interface with 192 zones, 8 partitions, and a host of integrated fire, access, verification, and input/output modules, all reported with the most comprehensive and fast SIA and Contact ID formats. The NetworX design allows a fully loaded system to be housed in one single metal enclosure, establishing for the first time, a logical solution and design response to modular systems. Up to 32 modules can be added to expand the capabilities of the NX-8E-CF. For product warranty information, please refer to the GE Security Product Catalog.

II. ORDERING INFORMATION

MINIMUM SYSTEM CONFIGURATION for local and central station protected premise unit UL Commercial Fire applications includes these individual modules:

PART #	DESCRIPTION	MIN QTY
➢ NX-8E-CF	NX-8E-CF Control Only	1 ea
➢ NX-148E-CF	Alphanumeric LCD Keypad for Commercial Fire applications (red plastic)	2 ea
➢ NX-870E	Fire Supervision Module	1 ea

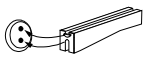
PART #	DESCRIPTION
NX-8E-CF-KIT-7	NX-8E-CF COMMERCIAL FIRE KIT Includes NX-8E-CF Control, (2) NX-148E-CF LCD Keypads, NX-870E Fire Supervision & 16.5V, 50VA Transformer

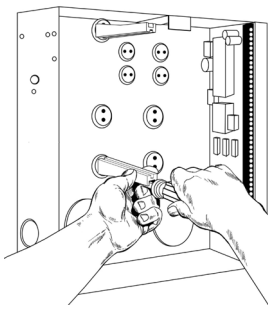
Other available NetworX modules:

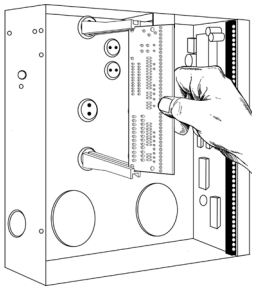
NX-208E	2 Wire Smoke Loop Expander	NX-508E	◆ Eight Output Module
NX-216E	16 Zone Expander Module	NX-540E	◆ "Operator" Telephone Interface Module
NX-320E	Smart Power Supply and Buss Extender	NX-591E	◆ Cellemetry Interface Module
NX-507E	Seven Relay Module	NX-2192E	PinPoint ID Module
P-0003	RS232 Adapter Cable	8920	4-Wire Cable (For use on AUX 1-4)

◆ These products have not been tested and approved by Underwriters Laboratories, Inc.

III. BOARD INSTALLATION







Inside the can, several 2-holed insertion points have been constructed. This allows for either vertical or horizontal placement of the modules. Notice that each insertion point has two sizes of holes -a larger hole and a smaller hole.

Diagram 1: The black plastic PCB guides are grooved on one edge where the PC board will be seated. The end with the half-moon protrusion fits into the larger hole. The smaller hole is for the screw.

Diagram 2: Place the *first* black plastic PCB guide in the top insertion point, grooved edge downward. The half-moon protrusion will be in the large hole. It does not require force. Insert one of the provided screw into the smaller hole (from inside the can) to secure it in place. A screwdriver should reach through the notch that runs the length of the guide to tighten the screw. The *second* PBC guide should be positioned opposite the first (grooved edge up) and placed in the lower insertion point, using the same procedures described above. Once mounted, screw it in securely.

Diagram 3: The PC Board should slide freely in the grooves of both guides.

IMPORTANT!

1. If separate power supplies are necessary to accommodate additional devices, safety standards require that each power supply be prominently marked with adequate instructions for removing all power from the unit.
2. Dispose of used batteries according to the manufacturer's instructions and/or local government authorities.
3. Installation personnel should thoroughly read and understand the installation instructions and the users manuals for the panel and all the accessories to be included with the system before attempting to install a security system.

WARNING!

Suggested replacement batteries: Power Sonic #PS-12180 or Yuasa #NP4-18 battery. Observe polarity when installing a new battery. Installing the battery backwards may cause damage to the panel. There is a risk of explosion if the battery is replaced with an incorrect type.

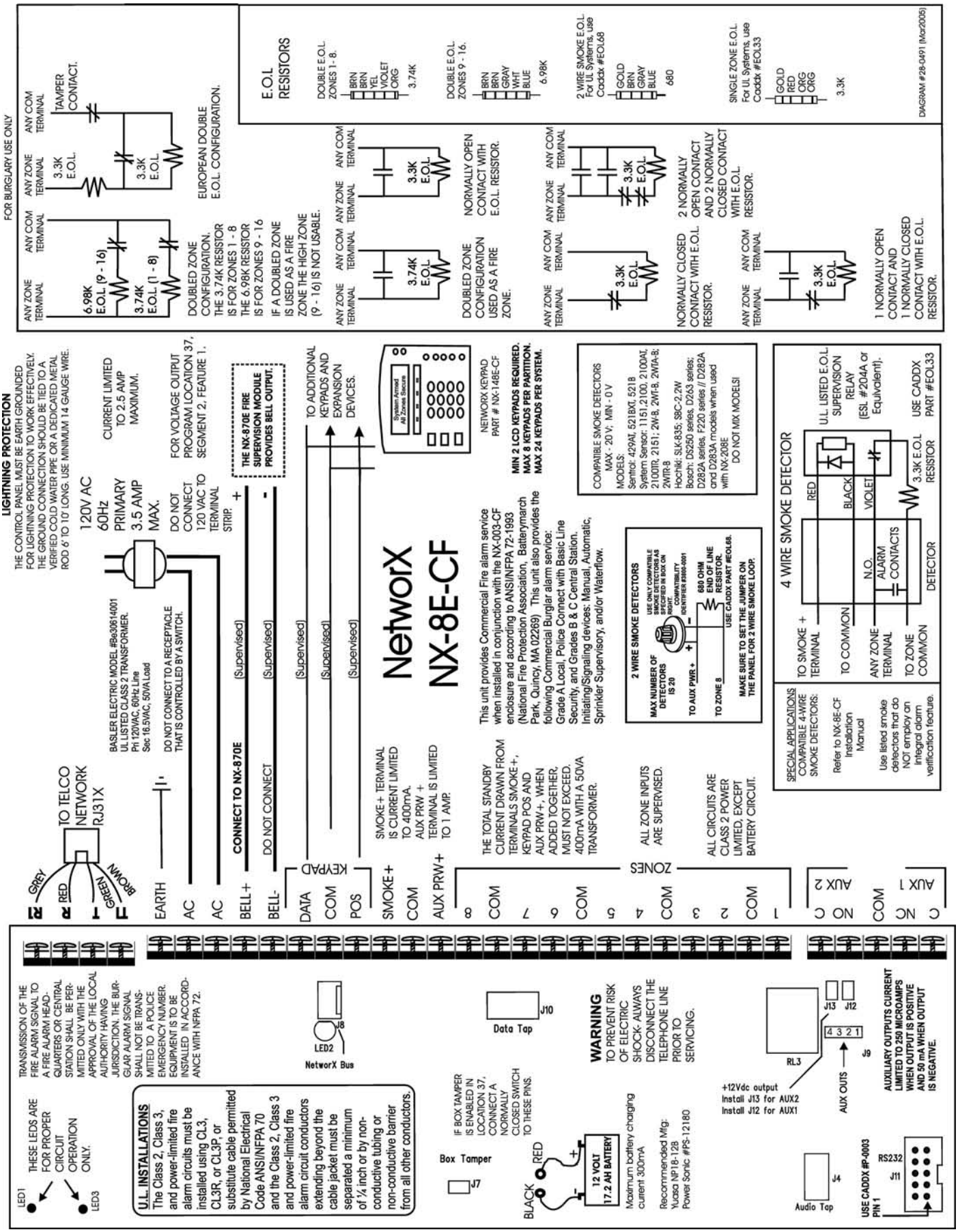
NOTE

Electrical codes will vary depending upon the country and city where the system is installed. It is the installer's responsibility to ensure that the electrical installation is safe and conforms to all applicable codes, laws, or regulations. Only qualified persons should connect this device to the mains supply.

STANDBY TIME	TOTAL AUXILIARY CURRENT	STANDBY BATTERY CAPACITY	ALARM CURRENT
24 hours	1.9 Amps	51 AH	600 mA
	1.25 Amps	34 AH	1 Amp
	600 mA	17 AH	1 Amp
48 hours	900 mA	51 AH	1 Amp
	600 mA	34 AH	1 Amp
	300 mA	17 AH	1 Amp
72 hours	600 mA	51 AH	1 Amp
	400 mA	34 AH	1 Amp
	200 mA	17 AH	1 Amp

- Calculations based on three 17-Amp batteries.

IV. NX-8E-CF WIRING DIAGRAM



V. TERMINAL DESCRIPTIONS

TERMINAL		DESCRIPTION	
R1		House Telephone Ring (Grey).	
R		Telephone Ring (Red).	
T		Telephone Tip (Green).	
T1		House Telephone Tip (Brown).	
EARTH		Earth Ground. Connect to a cold water pipe or a 6 to 10 foot driven rod.	
AC		AC input. Connect to a 16.5V, 40VA or 50 VA Class II U.L. approved transformer.	
BELL + & BELL -		If used as a siren output (default), the speaker rating should be 15 watt at 8 or 16 ohm, or 30/40 watt at 4, 8, or 16 ohms. If voltage output is selected in location 37, this output becomes voltage output, 12VDC, 1 Amp maximum load. **NOTE: A 3.3K ohm resistor may be required across the bell terminals when a 12 VDC siren is used. If no resistor is used, you may experience voltage leakage into the siren, which will cause these devices to output a small signal.**	
KP DATA		Connect to the data terminal on the keypads and the expanders. Maximum number of devices (keypads + expanders) is 32. See "Maximum Wire Run" chart below.	
KP COM		Connect to the Common terminal on the keypads and the expanders.	
KP POS		Connect to the POS terminal on the keypads and the expanders. Individually, this terminal is limited to 1 Amp. Combined, this terminal and AUX PWR + are limited to 2 amps total current.	
SMOKE+		Smoke detector power 12VDC, 1.5 amps maximum (For those jurisdictions which allow the Priority zone to be used with smoke detectors.)	
COM		Connect negative wire of powered devices such as motion detectors and smoke detectors.	
AUX PWR+		Connect positive wire of all powered devices except smoke detectors and keypads. Individually, this terminal is limited to 1 Amp. Combined, this terminal and KP POS are limited to 2 amps total current.	
ZONE 8		Connect to one side of zone 8 loop. Connect the other side to com terminal. Open or short causes alarm. **Zone 8 may be used for a two-wire smoke detector using a 680 Ω E.O.L. resistor. Connect one side to AUX PWR+ ONLY if using 2-wire smoke. Refer to wiring diagram. Program location 37, segment 6, option 1.**	
COM		Common (-) terminal for zones 7 & 8. (See the wiring diagram for examples.)	
ZONE 7		Connect to one side of zone 7 loop. Connect the other side to COM terminal. Open or short causes alarm.	
ZONE 6 - ZONE 1		Connect as described for zones 7 & 8. **Only zone 8 can be a two-wire zone.** (See the wiring diagram for examples.)	
RELAY2	**C**	Closed dry contact rated 1 Amp at 30 Volts.	**NOTE**: These terminals can be set for 12VDC. Install J12 for AUX1 and J13 for AUX2 (See terminal drawing.)
	NO	Normally open dry contact rated 1 Amp at 30 Volts.	
	COM	Common used to ground any devices connected to relays.	
RELAY1	**NC**	Normally closed dry contact rated 1 Amp at 30 Volts	
	C	Closed dry contact rated 1 Amp at 30 Volts	
(See terminal drawing)	**AUX 1- AUX 4**	Connect negative lead of low current device [relay, LED (install 1K ohm resistor in series with LED), etc.]. Connect positive lead of device to AUX PWR +. Current is limited to 50mA when output is negative, and 250μA when output is positive. Part number #8920 is 4-wire cable.	

MAXIMUM WIRE RUNS

KEYPADS

(Note: These numbers are for one keypad at the end of the wire. When connecting more than one keypad to the end of the wire, a higher gauge wire will be required.)

	IF CONNECTED TO NX-8E-CF	IF CONNECTED TO NX320-E
Length in feet	**Wire Gauge (AWG)**	**Wire Gauge (AWG)**
250	24	22
500	20	18
1000	18	16
1500	16	14
2500	14	12

BATTERY

(when located external to the case)

Length in feet	Wire Gauge (AWG)
2.5	20
4.5	18
11.5	14

TRANSFORMER

(Maximum line impedance from panel to mains transformer <= 20 ohms)

Length in feet	Wire Gauge (AWG)
3,000	14
6,000	12
10,000	10

VI. BATTERY CALCULATION WORKSHEET

Note: The Total Standby or Total Alarm Current cannot exceed 1.2 Amps. Current for the smoke loop must be deducted from the overall available 1.2 Amps.

1 TOTAL STANDBY CURRENT

System Component	Qty		Standby Current		TOTAL STANDBY CURRENT
NX-8E-CF	1	X	60mA	=	60mA
NX-870E	1	X	20mA	=	20mA
NX-148E		X	75mA	=	
NX-208E Aux+		X	13mA	=	
NX-208E DCIN		X	31mA	=	
NX-216E		X	30mA	=	
NX-320E		X	10mA	=	
NX-507E		X	10mA	=	
NX-1700E		X	40mA	=	
NX-2192E		X	170mA	=	
OTHER (sensors, etc.)					
			TOTAL	=	

2 TOTAL ALARM CURRENT

Should not exceed 1.2 Amps each

System Component	Qty		Device Alarm Current		TOTAL ALARM CURRENT
NX-8E-CF	1	X	210mA	=	210mA
NX-870E	1	X	110mA	=	110mA
NX-148E		X	110mA	=	
NX-208E Aux+		X	53mA	=	
NX-208E DCIN		X	31mA	=	
NX-216E		X	60mA	=	
NX-320E		X	10mA	=	
NX-507E		X	310mA	=	
NX-1700E		X	110mA	=	
NX-2192E		X	170mA	=	
OTHER (sensors, etc.)					
			TOTAL	=	

3 STANDBY AMP HOURS

mA		.001 Amp/mA		Hrs		Ah
Total Standby Current (Step 1)	**X**	**Conversion Factor**	**X**	**Required Hours in Standby**	**=**	**Standby Amp Hours**

4 ALARM HOURS

mA		.001 Amp/mA		Mins		.0167 Hr/Min		Ah
Total Alarm Current (Step 2)	**X**	**Conversion Factor**	**X**	**Required Minutes in Standby**	**X**	**Conversion Factor**	**=**	**Alarm Hours**

5 MINIMUM BATTERY POWER REQUIRED

mA				Ah
Standby Amp hours (Step 3)	**+**	**Alarm Amp Hours (Step 4)**	**=**	**Minimum Battery Power Required**

6 TOTAL STANDBY BATTERY POWER

		1.15		
Minimum Battery Power (Step 5)	**X**	**Battery Derating Factor**	**=**	**Total Standby Battery Power**

VII. UNDERWRITERS LABORATORIES INFORMATION

The NetworX NX-8E-CF holds the following listings from Underwriters Laboratories (US and Canadian):

Type	Type Service	Type Signaling	Model
L	A, M, SS, WF	NC	NX-8E-CF
RS	A, M, SS, WF	NC	NX-8E-CF
CS (protected premise unit)	A, M, SS, WF	NC	NX-8E-CF

UL294	Access Control System Units (* requires the NX-1700E module)
UL365	Police Station Connected Burglar Alarm Units and Systems
UL609	Local Grade A Mercantile, Police Station Connect with Basic Line Security **(*** requires #NX-003-C enclosure)
UL864	Control Units for Fire-Protective Signaling Systems
UL985	Household Fire Warning Systems & Units
UL1023	Household Burglary Alarm Systems & Units
UL1610	Grade B & C Central Station Burglar Alarm Unit
UL1637	Home Health Care Signaling Equipment
CAN/ULC-S303	Local Burglar Alarm Units and Systems
CAN/ULC-S304	Central and Monitoring Station Burglar Alarm Units
CAN/ULC-S545	Standard for Residential Fire Warning System Control Units

MINIMUM SYSTEM CONFIGURATION for UL 864 applications includes these individual modules:

PART #	DESCRIPTION	MIN QTY
➢ NX-8E-CF	NX-8E-CF Control Only	1 ea
➢ NX-148E-CF	Alphanumeric LCD Keypad for Commercial Fire applications (red plastic)	2 ea
➢ NX-870E	Fire Supervision Module	1 ea

All UL installations require the following:

- ❑ At least one NX-8E-CF control panel.
- ❑ At least two NX-148E-CF LCD keypads. Connect one to DATA/COM/POS and the other to DATA/COM/AUX+.
- ❑ At least one NX-870E Fire Supervision module.
- ❑ At least one NX-003-CF Commercial Fire metal enclosure. Supplied screws to be used.
- ❑ At least one bell fixture is required for all applications, except Grade C Central Station. For Grade A Local, the AD10-12 bell and Grade A bell housing shall be used.
- ❑ Initiating and indicating devices must be rated at 11.5 to 12.4 V DC residential, 12.0 V DC commercial.
- ❑ When using partitioning in Commercial Burglary applications, the main control must be protected by a 24-hour alarm circuit.
- ❑ Force Arming and Auto Arming shall not be enabled.
- ❑ For residential fire applications, the indicating devices shall be a Wheelock 34T-12 or equivalent.
- ❑ The "Listen-In" feature shall not be enabled.
- ❑ The Siren/Bell Test shall be enabled. The auxiliary outputs controlling the audible device require a minimum cutoff time of 15 minutes for commercial burglary, 4 minutes for residential applications, or 30 minutes for Commercial Burglary for Canada.
- ❑ The Dynamic Battery Test time cannot exceed four (4) hours.
- ❑ Ringback shall be enabled.
- ❑ The DACT shall be enabled.
- ❑ On commercial burglary installations, the fire initiating circuits shall not be connected.
- ❑ The Entry-Guard feature shall be disabled.
- ❑ Swinger Shutdown shall be disabled.
- ❑ Group Bypassing shall be disabled.
- ❑ Delay before dial seizure shall be set to "0".
- ❑ Total current draw from aux power connections at terminal positions POS, AUX PWR, and SMOKE PWR must not exceed 400 mA.
- ❑ The keyswitch option shall not be used.
- ❑ The telephone line monitor shall be enabled.
- ❑ The Telephone Line Cut delay shall not exceed 200 seconds maximum.
- ❑ 24-hour communicator test transmission is required.
- ❑ For 24 hours of standby power using a 7.0 AH battery, limit auxiliary power load to 140 mA.
- ❑ For 24 hours of standby power using a 17.2 AH battery, limit auxiliary power load to 400 mA.
- ❑ The silent keypad option shall not be enabled.

- ❑ UL has only verified compatibility with the following listed DACRs and formats: Sure-Gard SG-MLR2-DG: 2,9,10,12,13,14; Silent Knight 9000 - 2,12; FBI - CP220FBI, 13; and Ademco 685: 2,11,12, and 13.
- ❑ For burglary installations, cross-zoned detectors shall overlap 100 percent in the area of coverage and similar coverage areas must be used. For example, interior protection is cross-zoned with interior protection, and so on.
- ❑ Expander trouble must activate the siren (Loc. 37, Seg 2)
- ❑ For UL 1637, expander trouble must activate keypad sounder (Loc. 39, Seg 1)
- ❑ If the Late to Close/Early to Open feature is enabled, the Opening and Closing reports shall be enabled (Loc. 23, Seg. 4, Option 1 and Loc. 23, Seg. 3, Option 1).
- ❑ Use type FPL, FPLR, or FPLR cables as required by Article 760 of the National Electrical Code.
- ❑ Compatible listed devices (Special Applications – Commercial Fire):
  - Bell Output (Sirens): Wheelock models NS-1215W, NS-121575W, NS4-1215W, NS4-121575W, AS-1215W, AS-121575W
  - Horn / Strobe: System Sensor: S1224MC Strobe series; 1224MC Horn/Strobe series; H12/24 Horn series
  - Smoke Output (4 wire detectors):
    - ESL: 500N series; 449CTE series; 521 series; 541 series
    - System Sensor models: 2112/24R; 2112/24TR; 2112/24AT; 2112/ATR; 2112/24AITR; 4WTA-B; 4WTR-B; 4WTAR-B; 4WITAR-B.
    - Detection Systems: F220-B6C; D273 series
    - Hochiki: SBC-4/12, 4/12W
    - The 4-wire smoke detector employed shall be rated to operate over the voltage range of 11.5 to 12.4V
  - Smoke Output (2-wire detectors): ESL 429 series, 521 series, 711U/UT, 721U/UT

☐ For Canadian installations, the class II transformer secure tab shall not be employed.

VIII. GLOSSARY

TERM	DESCRIPTION	LOC	PG
ABORT	If enabled, the NX-8E-CF will wait the programmed number of seconds in location 40 prior to sending an alarm. To abort the report, type in a code and press *CANCEL*. "Dialer Delay" must be enabled in the "Characteristic Select" of locations 110-169.	**40** **110-169**	**22** **28-31**
AC FAIL LOW BATTERY REPORT/WARNING	The NX-8E-CF can be programmed to report AC failure and/or Low Battery conditions to the central station. It can also be programmed to sound the keypad immediately upon detection of the condition. The AC failure report/warning can be delayed.	**37 & 39**	**21-22**
AC POWER LOW BATTERY SOUNDER ALERT	If enabled, the NX-8E-CF will beep the keypad sounder upon arming or disarming if the AC power is missing or a low battery has been detected. ✍ **For UL Commercial Fire installations, this feature must be ENABLED.**	**23**	**18**
ARM / DISARM CODES	The NX-8E-CF can have 240 four-digit codes or 160 six-digit codes to arm/disarm the control. All codes must have the same number of digits. The factory default for User #1 is ①②③④ when using a 4-digit code, or ①②③④⑤⑥ for a 6-digit code. This code can then be used to enter the new arm/disarm codes.	**41**	**23**
AUTO CANCEL / ABORT	If enabled, the Cancel and/or Abort features will be automatic (pressing the *CANCEL* button is not required). The Cancel and Abort features, in locations 23 and 40 respectively, must be enabled to permit this Auto feature to work. For proper operation of these features, "Dialer Delay" must be enabled in the "Characteristic Select" of locations 110-169 Zone Types. Default is OFF. ✍ **For UL Commercial Fire installations, this feature must be DISABLED.**	**41**	**23**
AUTO TEST	This feature will cause the panel to call the central station to report a communicator test at a specified interval. Default is ON.	**51**	**24**
AUTOMATIC ARMING	If programmed, the NX-8E-CF will Auto Arm at a specified time. At this time, the keypad will beep for 50 seconds before the panel arms. The arming process will be stopped if a code is entered on the keypad. The NX-8E-CF will attempt to arm after every 45 minutes of inactivity until the next "opening" time (loc. 52), or until the system is armed. The 45-minute timer will be extended when there is activity in the building. The Auto Arming of a partition can be programmed to be silent. If closing reports are sent, the user code will be 97. ✍ **For UL Commercial Burglary installations, this feature must be DISABLED.**	**23,** **52-55**	**18** **24**
AUTOMATIC BYPASS INSTANT ARMING	When enabled, the control panel can automatically bypass interior follower zones if an exit is not detected during the exit delay time. Entry delay zones can also be made instant.	**23** **Seg 1 & 3**	**18**
AUXILIARY OUTPUTS	There are four programmable outputs that can be used to activate relays, LEDs, etc.	**45-50** **Diagram**	**23-24** **7**
AUXILIARY POWER OVERCURRENT	The control panel will display a "Service Required" message on the keypad when too much current is drawn from any device powered by the system. This condition can be reported to the central station.	**37**	**21**

TERM	DESCRIPTION	LOC	PG
BOX TAMPER	The control panel has an input for a normally closed tamper switch (see terminal drawing). The Box Tamper can be programmed to report and/or sound the siren and/or the keypad. These terminals can be enabled or disabled in programming.	**37, 39**	**21**
BUILT IN SIREN DRIVER	The NX-8E-CF has a built-in 112db siren driver. When desired, this built-in driver can be easily converted to a 1-amp voltage output through programming.	**37**	**21**
BYPASS TOGGLE	This feature will enable the end user to toggle (turn on or off) the bypass of an interior zone with the system armed by pressing *BYPASS*.	**23**	**18**
CANCEL	If enabled, the control panel will send a "Cancel" report if when the system is disarmed and the *CANCEL* button is pressed within 5 minutes of an alarm. "Dialer Delay" must be enabled in the "Characteristic Select" of locations 110-169.	**23**	**18**
COMMUNICATION FORMATS	The NX-8E-CF can report in Contact ID or SIA formats.	**Appendix 1**	**54**
CROSS ZONING	This feature requires two or more trips on a zone or zones programmed as "cross zones" within a specified time before reporting an alarm. During the time between trips, the control panel can be programmed to sound the keypad and/or the siren. The control panel can also be programmed to report an alarm after two or more trips on the same zone.	**37,39,40, 110-169**	**21,22 28-31**
DUAL / SPLIT / MULTIPLE REPORTS	The NX-8E-CF can send communication reports to three different phone numbers for dual, split or multiple reports selectable by event or partition.	**4, 10, 16**	**16,171 8**
DURESS CODE	If a duress code is programmed the control panel will send a duress signal whenever the panel is armed or disarmed with this code. If open/close reports are sent, the user code will be 254.	**44**	**23**
DYNAMIC BATTERY TEST	The control panel can be programmed to perform a Dynamic Battery Test for a selected duration the first time the panel is armed or disarmed every day. If the panel is not disarmed during the day it will perform the test at midnight. The control panel can also be programmed to perform a missing battery test every 12 seconds.	**37, 40**	**21 and 22**
EARLY TO OPEN / LATE TO CLOSE	If an opening occurs before the opening and closing times, the NX-8E-CF will send an "Early Open" report. If it fails to close on or before the designated closing time, the NX-8E-CF will send a "Late to Close" report.	**23**	**18**
END OF LINE RESISTOR DEFEAT	The NX-8E-CF can be programmed to make zones 1-8 for normally closed operation only, eliminating the need for the end of line resistors on these zones. When a zone is programmed for normally closed operation, a short on that zone will not change the loop condition, and an open on that zone will produce a faulted condition. This feature will be ignored by any Priority zone. ✍ **For UL installations, all zones must be programmed as supervised.**	**111-169**	**28-31**
ENTRY-GUARD	This unique low-level arming mode has been developed to reduce the most common source of false alarms. When armed as "Instant", the opening of any zones designated as "Entry Guard zone" will initiate the keypad sounder and start the entry delay before creating an alarm. All other zones will function as normal. This arming mode will encourage system owners to use their system more frequently when the premises are occupied. ✍ **For UL installations, this feature must be DISABLED.**	**111-169**	**28-31**
EXIT ERROR	If this feature is not enabled, the siren will sound if any entry/exit zone is faulted at the instant the exit delay expires. If enabled, the NX-8E-CF will send an "Exit Error Report" if an entry/exit zone is faulted at the instant the exit delay expires. This report will be sent along with the user number that armed the system, if the panel is not disarmed before the entry delay expires. The alarm report will also be sent.	**23**	**18**
EXPANDER TROUBLE	The control panel will report expander trouble to the central station if enabled. This condition will display the "Service Required" message on the keypad even if not reported. ↳ The keypads are considered expanders. The number of the expansion devices reported can be found on page 57.	**37**	**21**
FAIL TO COMMUNICATE	The control panel will display the "Service Required" message if a report fails to reach the central station. If enabled, when the next report is successfully communicated, a Fail to Communicate code will be reported. Default is ON.	**37**	**21**
FIRE ALARM VERIFICATION	When enabled, the control panel will verify a Fire alarm by requiring more than one trip on a smoke detector within a specified time before creating an alarm. ✍ **This feature is not approved for residential use in California.**	**40**	
FORCE ARMING	When enabled, the NX-8E-CF can be Force Armed with zones violated. At the end of the exit delay, these zones will become bypassed. If these zones become secured any time during the arming cycle, they will be unbypassed and active in the system. If "Bypass Report" is enabled, the force arming zones can be programmed to report bypass when they are Force Armed (default), or to not report bypass even if "Bypass Report" is enabled. ✍ **For UL installations, this feature must be DISABLED.**	**37 and 111-149**	**21 & 28-31**
GROUND FAULT	If the NX-870E is used, a fault of the earth ground can be reported to the central station. If it is not reported, this condition will display the "Service" message on the keypad.	**37**	**21**

TERM	DESCRIPTION	LOC	PG
GROUP BYPASS	A designated group of zones can be programmed to bypass by pressing [**Bypass**]- [**0**]-[**Bypass**]- [**Bypass**] prior to arming. ✍ **For UL installations, this feature must be DISABLED.**	**111-169**	**28-31**
IMMEDIATE RESTORE BY ZONE	The NX-8E-CF can be programmed to send alarm and restore reports as soon as they occur, or wait until the siren time has expired.	**37**	**21**
INTERNAL EVENT LOG	Up to 512 events can be stored in memory along with the date and time of the event. **All reportable events report to the log.**		
KEYPAD ACTIVATED PANICS	The NX-8E-CF has three keypad activated panics that will send reports to the central station: Auxiliary 1 (Fire), Auxiliary 2 (Medical), and Keypad Panic. Auxiliary 1 will activate the steady (Fire) siren, Auxiliary 2 will sound the keypad, and the Keypad Panic can be programmed to be silent or audible (sound siren).	**23**	**18**
KEYPAD SOUNDER CONTROL	The NX-8E-CF can be programmed to sound the keypad sounder for certain events.	**39**	**22**
KEYPAD TAMPER	If enabled, the NX-8E-CF will disable the keypad for 60 seconds and communicate a tamper signal to the central station if 30 keypresses are entered without producing a valid code.	**23**	**18**
KEYSWITCH ARM/DISARM	Any zone on the NX-8E-CF can be programmed as a keyswitch zone. If this is done, a momentary short on this zone will arm/disarm the control. If opening/closing reports are sent, the user code will be 99.	**"Default Zone Types"**	**19**
LED EXTINGUISH	This feature will extinguish all LEDs on the keypad, except the "Power" LED, after 60 seconds without a keypress. Pressing any numeric key will illuminate all LEDs.	**23**	**18**
LOG FULL REPORT	A report can be sent to the central station when the event log is full.	**37**	**21**
LOST CLOCK SERVICE LIGHT	The NX-8E-CF can be programmed to illuminate the "Service" LED when the internal clock has an invalid time due to power loss.	**37**	**21**
MANUAL TEST	The NX-8E-CF can be programmed to perform a bell and/or communicator test when [✱]-[**4**]-[**4**] is entered while the system is in the disarmed state.	**37**	**21**
NIGHT MODE	(Applies to NX1208E / NX1248E keypads) In this mode, the control panel will bypass all zones that have the Entry Guard feature enabled.	**23**	**18**
ON BOARD ZONE DISABLE	The eight zones on the NX-8E-CF panel can be disabled in order to have a completely wireless alarm system.	**37**	**21**
PARTITIONS	The NX-8E-CF can be partitioned into a maximum of eight separate systems with distinct reporting codes, user codes, and operating features for each system.	**26 - 36**	**20-21**
PROGRAM CODE	The factory default for the "Go To Program" code is [**9**]-[**7**]-[**1**]-[**3**] when using a 4-digit code or, if the 6-digit option is used, the default is [**9**]-[**7**]-[**1**]-[**3**]-[**0**]-[**0**]. The program code can also be used as an Arm/Disarm code. If used as an Arm/Disarm code, and open/close reports are sent, the user code will be 255.	**43**	**23**
QUICK ARM FEATURE	The NX-8E-CF has a one-button "Quick Arm" feature which can be used to arm the system by pressing the [**Exit**] key or the [**Stay**] key on the keypad. If closing reports are sent, the user code will be 98.	**23**	**18**
RECENT CLOSING	If enabled, the NX-8E-CF will send a "Recent Closing Report" to the central station if an alarm occurs within 5 minutes after the panel is armed. The user number that armed the system will also be sent.	**23**	**18**
RE-EXIT	The NX-8E-CF has the ability to restart the exit delay for a quick exit without disarming the system by pressing the [**Exit**] key while the system is armed.	**23**	**18**
SIREN BLAST FOR ARMING	The NX-8E-CF can be programmed to give a one-second siren blast when the panel is armed, at the end of the exit delay, or when the central station receiver acknowledges the closing report. It can also give one blast for remote (keyswitch) arming and two blasts for remote disarming.	**37**	**21**
SIREN SUPERVISION	The NX-8E-CF has a "Siren Supervision" circuit that will constantly monitor the siren on the NX-8E-CF and can be programmed to report if the wires are cut.	**37**	**21**
SILENT EXIT OPTION	The exit delay can be silenced by pressing [✱]-[**Exit**] before arming the control panel or when using the re-exit feature. The exit delay can also be silenced permanently in all partitions.	**37**	**21**
START / END PROGRAMMING	A report can be sent when local programming is started and ended	**37**	**21**
SWINGER SHUTDOWN	This feature allows a zone or zones to be automatically bypassed after a specified number of alarms. When a zone is tripped, the alarm 'counter' reflects "1" in memory. If a new (first) alarm is detected in a different zone, the counter remains at "1". If an alarm is detected on a previously tripped zone, the count increments to "2". The 'counter' will increment each time an alarm is detected on a zone with multiple trips. Bypassing will occur on the zone that causes the count to equal the number programmed in location 38; the 'counter' will reset to zero (0); and begin a new trip count where the next alarm will set the 'counter' to 1. If immediate restore is enabled in location 37, the alarms (and restores, if enabled) will be sent as they occur. If immediate restore is not enabled, a second or subsequent alarm will not be sent until the siren times out. ✍ **For UL installations, this feature must be DISABLED.**	**37 & 38**	**21-22**

TERM	DESCRIPTION	LOC	PG
TELEPHONE LINE MONITOR	The NX-8E-CF has a Telephone Line Monitor that monitors the voltage and current of the telephone line for a detection of a faulted phone line. This condition can also be reported to the central station. If the report is enabled, only the Telephone Line Restore will be reported unless the NX-870E is being used.	**37, 39, & 40**	**21-22**
TEMPORAL SIREN DISABLE	If disabled, the Fire Siren will be steady and Fire Voltage Out will be the same as Burglary (continuous). Otherwise, the Fire Siren will be temporal. ✍ **For UL installations, this feature must be ENABLED.**	**37**	**21**
WALK-TEST MODE	If enabled, entering [□] [Chime] followed by a user code will allow a walk-through zone test where all zones become silent and local (non-reporting). During this test the chime light will flash on the LED keypad. Each time a zone is faulted, the zone light on the LED keypad will illuminate and the chime will sound. The number of the faulted zone(s) will be displayed on the LCD keypad. It will also be entered into alarm memory and the internal log. To exit at any time during this mode, enter a user code. Otherwise the "Walk-Test Mode" will automatically exit after 15 minutes.	**41**	**23**
WIRELESS SENSOR MISSING / LOW BATTERY	The NX-8E-CF will send a report to the central station when a wireless sensor has detected a low battery or has not reported to the receiver. The "Service" LED will illuminate when either condition exists.	**37**	**21**
ZONE ACTIVITY MONITOR	This feature will send a report to the central station when a particular zone does not change conditions within the specified number of days programmed.	**40, 110-169**	**22, 28-31**
ZONE BYPASSED SOUNDER ALERT	If this feature is enabled, the NX-8E-CF will beep the keypad sounder upon arming if a zone is bypassed.	**23**	**18**
ZONE TYPES (CONFIGURATIONS)	The NX-8E-CF has 30 programmable Zone Types that determine how each zone will function and report. The default Zone Types are listed on page 19. ↳ ***If any zone is programmed as a Fire Zone, that zone will be a Fire Zone in all partitions.*** *(Example: If zone 2 is a Fire Zone in partition 1, then zone 2 will be a Fire Zone in all partitions.)*	**111-169**	**28-31**

IX. PROGRAMMING THE CONTROL

ENTERING THE PROGRAM MODE

Action		Result
☞	✱ ⑧	Enters the Program Mode. Prompts for the programming code.
☞	[Go To Program Code] Factory Default is ⑨⑦①③	If the "Go To Program Code" is valid, the LCD screen will prompt for the device address to program. You are now in the Program Mode and ready to select the module.

SELECTING THE MODULE TO PROGRAM

✍ Since all modules connected to the NX-8-CF are programmed through the keypad, the module you are programming should be the first entry.

Action		Result
☞	⓪ #	Programs the NX-8E-CF Commercial Fire Panel ⓪ is the module number of the control and **#** is the entry key. Other module entry numbers can be found in their corresponding manuals.

PROGRAMMING A LOCATION

Once the number of the module to be programmed has been entered, the LCD screen will prompt you for a location number. Any location can be accessed by directly entering the desired programming location followed by **#**. If the location entered is a valid location, the top line of the LCD screen will display the location number on the left and the segment number on the right. The bottom line of the display will show the current data. This data will be displayed and entered according to the type of data used (numerical, binary, or character data).

NUMERICAL DATA

The top line of the display will show the current location number on the left and the segment number on the right. The data will be displayed on the bottom line. The hex equivalent will be shown in parenthesis. To change the data in the current location, enter the number followed by ✱. The data will be entered and the segment will be incremented by 1. The data for this segment will now be displayed. Continue this process until the last segment is programmed. When the last segment is reached, the keypad will prompt you for the next location. If you wish to exit this location before the last segment is reached, press **#**. This keypress will not save the changes made to current segment, but will exit the location.

Shortcut keys:

☞ 	Previous location.
☞ 	Same location.
☞ 	Next sequential location.

BINARY DATA

The top line of the display will show the current location number on the left and the segment number on the right. The data will be displayed on the bottom line with the numbers 1-8 in the first 8 characters. If the number appears, this binary switch is on. If a minus sign (-) appears where the number should be, this switch is off. Toggle numbers on or off using the corresponding number digit (1 to toggle 1; 8 to toggle 8). When the numbers are in the desired state, enter ✱. The data will be entered and the segment will be incremented by 1. The data for this segment will now be displayed. Continue this process until the last segment is programmed. When the last segment is reached, the keypad will prompt for the next location. If you wish to exit this location before the last segment is reached, press **#**. This keypress will not save the changes made to current segment, but will exit the location. "Shortcut Keys" shown in Numerical Data can also be used for Binary Data.

CHARACTER DATA

Character Data is used to enter LCD text when programming. (Refer to the NX-148ECF instruction manual for custom messages ✱❾❷ feature.) Custom zone descriptions and messages are stored character or ASCII data type. This information is programmed using the bottom line of the display as a text editor. Once a character location has been entered, the current data will be displayed on the bottom line. As is always the case, the top line will display the current location and segment number. The five (5) function keys, as well as the up and down arrow to the right of the display, are now used to edit the message prior to saving it back to the location storage. An underscore (_) in the display indicates the current cursor location.

Shortcut keys:

☞ ✱	•••••••	Saves character or word; moves cursor to right
☞ CANCEL	•••••••	Moves cursor to left.
☞ ▲ or ▼	•••••••	Scrolls through available characters. (In Library Mode) Scrolls through available words. *Tip: Refer to the NX-148ECF instructions for more details.*
☞ STAY	•••••••	Inserts blank space.
☞ CHIME	•••••••	Deletes characters.
☞ EXIT	•••••••	Accesses the Library *Tip: Refer to the NX-148ECF instructions for more details.*
☞ BYPASS	•••••••	Makes the character "flash". (In Library Mode) Makes the entire word "flash".
☞ #	•••••••	Exits the edit mode.

EXITING A LOCATION

Action	Result
☞ ✱	Saves the data and exits that location. *Tip: The ✱ must be pressed or the data will not be saved. To exit before the last segment, press **#**.* You are now ready to program another location.

EXITING THE PROGRAM MODE

Action	Result
☞ EXIT	Exits this program level. Advances to "Select a Module".
☞ EXIT	Exits the programming mode entirely.

LOADING FACTORY DEFAULTS

Action	Result
Follow procedures on page 13 to enter the Program Mode.	
☞ ⑨①⓪#	Keypad will beep 3 times (loading is in progress). The loading takes about 6 seconds.

X. ENROLLING MODULES AND KEYPADS

For supervision purposes, the control panel has the ability to automatically find and store in its memory, the presence of all keypads, zone expanders, wireless receivers, and any other module connected to the data terminal. This allows these modules to be supervised by the control panel. To enroll the modules, enter the Program Mode of the control panel as described on page 13. When the Program Mode is exited, the control panel will automatically enroll the devices. The enrolling process takes about 12 seconds, during which time the "Service" LED will illuminate. User codes will not be accepted during the enrolling process. If a speaker is attached to the control panel, it will click at this time. If a siren or bell is attached to the control panel, it will sound for about 1 second. Once a module is enrolled, if it is not detected by the control, the "Service" LED will illuminate.

XI. ☞ QUICK START INSTALLATION

For most routine installations, the "Quick Start" option will allow for enabling a majority of the options available with the NX-8E-CF, when communicating in Contact ID or SIA formats and without partitioning. The "Quick Start" locations can be identified by the ☞ symbol.

XII. PROGRAMMING LOCATIONS

☞ **LOCATION 0 - PHONE NUMBER 1 (20 segments, numerical data)**
The first telephone number is programmed in location 0. A "14" indicates the end of the phone number. Delays of four seconds can be programmed at any point in the phone number by programming a "13" in the appropriate segment. If tone dialing is desired, program a "15" in the segment where tone dialing should begin. If the entire number should be tone dialing, program a "15" in the first segment. Program an "11" for a "✱", and a "12" for a "#".

☞ **LOCATION 1 - ACCOUNT CODE FOR THE PHONE #1 (6 segments, numerical data)**
The account code sent when Phone #1 is dialed is programmed in location 1. Program a A10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

☞ **LOCATION 2 - COMMUNICATOR FORMAT FOR PHONE #1 (1 segment, numerical data)**
Location 2 contains the communicator format used to transmit to the receiver connected to Phone #1. Consult the instructions for your central station receiver to determine which format is compatible. Select a format from Table XII-1 COMMUNICATOR FORMAT SELECTIONS. If this location contains a "0", the built-in communicator will be disabled, and the NX-8E-CF will function as a local only control.

Table XII-1 COMMUNICATOR FORMAT SELECTIONS

DATA	FORMAT	DESCRIPTION
0	Local	Communicator is disabled
1 - 6	Reserved	Reserved
7	SIA with Area Modifier	Sends the area modifier with events associated with a partition. The receiver must be able to accept this modifier.
8 - 12	Reserved	Reserved
13	Contact ID	DTMF (see pages 54 & 55)
14	SIA	FSK (see pages 54 & 55)
15	Reserved	

☞ **LOCATION 3 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE # 1 (2 segments, numerical data)**

Segment 1- Dial attempts: Location 3, Segment 1 is used to enter the number of dial attempts (1 to 15 Attempts) the communicator will make to Phone #1 before ending the notification process. Factory default is "8" and the communicator will make eight (8) attempts to the first number.

Segment 2- Phone #1 Backup Control: Programming a "**0**" in Segment 2 of this location will cause the NX-8E-CF to make the designated number of attempts to Phone #2 before setting the "Fail To Communicate" condition and stop reporting. Programming a "**1**" in this segment will cause the NX-8E-CF to stop trying to communicate after the designated number of attempts have been made to Phone #1. If a "**2**" is programmed in this segment, it will cause the NX-8E-CF to make the dial attempts in increments of two. The first two attempts will be made to Phone #1, the next two attempts to Phone #2, then repeating until the total number of attempts designated in Segment 1 is completed.

REPORTING EVENTS TO PHONE NUMBER 1

Phone #1 has two programming locations that are used to select which events are reported to this phone number. Location 4 is used to select which events are reported to Phone #1. Location 5 is used to select which partitions are reported to Phone #1. If dual or split reporting is not desired, location 4 should be used to select all events to Phone #1 and location 5 should be left at the factory default of "0". If dual or split reporting is desired, and the split is based on the event type (such as alarm, open/close, etc.), location 4 should be used to select only those events that should be reported to Phone #1 and location 5 should be left at the factory default of "0". If dual or split reporting is desired, and the split is based on partition, location 4 should be programmed as a "0" and location 5 should be used to select

those partitions that should be reported to Phone #1. If no events should be reported to Phone #1, both locations should be programmed as "0" (disabling all options).

LOCATION 4 - EVENTS REPORTED TO PHONE # 1 (2 segments, feature selection data)

Segment 1:
1 = Alarms and Alarm Restores.
2 = Opening and Closings.
3 = Zone Bypass and Bypass Restores.
4 = Zone Trouble and Trouble Restores.
5 = Power Fail, Low Battery, Power Restore, and Low Battery Restore.
6 = Bell Cut, Telephone Line Cut, Bell Cut Restore, Telephone Line Restore.
7 = Test Reports.
8 = Start and End programming.

Segment 2:
1 = Zone and Box Tamper and Tamper Restore.
2 = Auxiliary Power Overcurrent, Ground Fault, and Restore for both.
3 = Wireless Sensor Missing and Restore.
4 = Wireless Sensor Low Battery and Restore.
5 = Expander Trouble and Restore.
6 = Fail To Communicate.
7 = Zone Activity Monitor.
8 = Reserved.

LOCATION 5 - PARTITIONS REPORTED TO PHONE #1 (1 segment, feature selection data)

Location 5 is used when events to be reported to a phone number are based upon the partition regardless of the event. If this location is used, location 4 should be programmed as "0".

Segment 1:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 6 - PROGRAMMING PHONE #2 (20 segments, numerical data)**

Phone #2 is programmed in location 6. A "14" indicates the end of the phone number. Delays of four seconds can be programmed at any point in the phone number by programming a "13" in the appropriate segment. If tone dialing is desired, program a "15" in the segment where tone dialing should begin. If the entire number should be tone dialing, program a "15" in the first segment. Program an "11" for a "✱", and a "12" for a "#".

☞ **LOCATION 7 - ACCOUNT CODE FOR THE PHONE #2 (6 segments of numerical data)**

The account code sent when Phone #2 is dialed is programmed in location 7. Program a A10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments. If this location is left unprogrammed, account code 1 will be used when the second phone number is dialed.

☞ **LOCATION 8 - COMMUNICATOR FORMAT FOR PHONE # 2 (1 segment, numerical data)**

Location 8 contains the communicator format used to transmit to the receiver connected to Phone #2. Consult the instruction manual for your central station receiver to determine which format is compatible, and select from Table XII-1 COMMUNICATOR FORMAT SELECTIONS on page 15. If this location contains a "0", format 1 will be used when Phone #2 is dialed.

LOCATION 9 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE #2 (2 segments, numerical data)

Segment 1, Dial attempts: Segment 1 of Location 9 is used to enter the number of dial attempts (1 to 15 attempts) the communicator will make to Phone #2 before ending the notification process. Factory default is "8" and the communicator will make the same number of attempts as those programmed in location 3.

Segment 2, Phone #2 Backup Control: Programming a "**0**" in Segment 2 of this location will cause the NX-8E-CF to make the designated number of attempts to Phone #1 before setting the "Fail To Communicate" condition and stop reporting. Programming a "**1**" in this segment will cause the NX-8E-CF to stop trying to communicate after the designated number of attempts have been made to Phone #2. If a "**2**" is programmed in this segment, it will cause the NX-8E-CF to make the dial attempts in increments of two. The first two attempts will be made to Phone #2, the next two attempts to Phone #1, then repeating until the total number of attempts designated in Segment 1 is completed.

REPORTING EVENTS TO PHONE NUMBER 2

Phone #2 can be used to back up Phone #1 or for a second receiver to multi-report or split report events. Phone #2 has two programming locations that are used to select which events are reported to this phone number. Location 10 is used to select which events are reported to Phone #2, and location 11 is used to select which partitions are reported to Phone #2. If dual or split reporting is not desired, location 10 and location 11 should be left at the factory default of "0". If multi-reporting or split reporting is desired, and the split is based on the event type (such as alarm, open close etc.), location 10 should be used to select only those events that should be reported to Phone #2, and location 11 should be left at the factory default of "0". If dual or split reporting is desired, and the split is based on partition, then location 10 should be programmed as "0", and location 11 should be used to select those partitions that should be reported to the Phone #2. If no events should be reported to Phone #2, both locations should be "0".

LOCATION 10 - EVENTS REPORTED TO PHONE #2 (2 segments of feature selection data)

Segment 1:
1 = Alarms and Alarm Restores.
2 = Opening and Closings.
3 = Zone Bypass and Bypass Restores.
4 = Zone Trouble and Trouble Restores.
5 = Power Fail, Low Battery, Power Restore, and Low Battery Restore.
6 = Bell Cut, Telephone Line Cut, Bell Cut Restore, Telephone Line Restore.
7 = Test Reports.
8 = Start and End programming.

Segment 2:
1 = Zone and Box Tamper and Tamper Restore.
2 = Auxiliary Power Overcurrent and Ground Fault and Restore for both.
3 = Sensor Missing and Restore.
4 = Sensor Low Battery and Restore.
5 = Expander Trouble and Restore.
6 = Fail To Communicate.
7 = Zone Activity Monitor.
8 = Reserved.

LOCATION 11 - PARTITIONS REPORTED TO PHONE #2 (1 segment, feature selection data)
Location 11 is used when events to be reported to a phone number are based upon the partition regardless of the event. If this location is used, location 10 should be "0".

Segment 1:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

LOCATION 12 - PROGRAMMING PHONE #3 (20 segments, numerical data)
Phone #3 is programmed in location 12. A "14" indicates the end of the phone number. Delays of four seconds can be programmed at any point in the phone number by programming a "13" in the appropriate segment. If tone dialing is desired, program a "15" in the segment where tone dialing should begin. If the entire number should be tone dialing, program a "15" in the first segment. Program an "11" for a "✱", and a "12" for a "#".

LOCATION 13 - ACCOUNT CODE FOR PHONE #3 (6 segments, numerical data)
The account code sent when Phone #3 is dialed is programmed in location 13. Program a A10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments. If location 6 is left unprogrammed, account code 1 will be used when the Phone #3 is dialed.

LOCATION 14 - COMMUNICATOR FORMAT FOR PHONE #3 (1 segment, numerical data)
Location 14 contains the communicator format used to transmit to the receiver connected to phone #3. Consult the instruction manual for your central station receiver to determine which format is compatible, and select from Table XII-1 COMMUNICATOR FORMAT SELECTIONS on page 15. If you require a format other than those listed, review the override options described in Location 18 to build the appropriate format. A "15" must be programmed in location 14 in addition to the entries in location 18 in order to create a special format. If this location contains a "0", format 1 will be used when Phone #3 is dialed.

LOCATION 15 - DIAL ATTEMPTS/BACKUP CONTROL FOR PHONE #3 (2 segments, numerical data)

Segment 1, Dial Attempts: Segment 1 of Location 15 is used to enter the number of dial attempts (1 to 15 attempts) the communicator will try to Phone #3 before ending the notification process. Factory default is "8" and the communicator will make the same number of attempts as those programmed in location 3.

Segment 2, Phone # 3 Backup Control: Programming a "**0**" in Segment 2 of this location will cause the NX-8E-CF to make the designated number of attempts to Phone #2 before setting the "Fail To Communicate" condition and stop reporting. Programming a "**1**" in this segment will cause the NX-8E-CF to stop trying to communicate after the designated number of attempts have been made to Phone #3. If a "**2**" is programmed in this segment, it will cause the NX-8E-CF to make the dial attempts in increments of two. The first two attempts will be made to Phone #3, the next two attempts to Phone #2, then repeating until the total number of attempts designated in Segment 1 is completed.

REPORTING EVENTS TO PHONE NUMBER 3

Phone #3 can be used for a third receiver to multi-report or split report events. Phone #3 has two programming locations that are used to select which events are reported to this phone number. Location 16 is used to select which events are reported to Phone #3, and Location 17 is used to select which partitions are reported to Phone #3. If dual or split reporting is not desired, location 16 and location 17 should be left at the factory default of "0". If multi-reporting or split reporting is desired and the split is based on the event type (such as alarm, open/close, etc.), then location 16 should be used to select only those events that should be reported to Phone #3 and location 17 should be left at the factory default of "0". If dual or split reporting is desired, and the split is based on partition, then location 16 should be programmed to "0" and location 17 should be used to select those partitions that should be reported to Phone #3. If no events should be reported to Phone #3, both locations should be "0".

LOCATION 16 - EVENTS REPORTED TO PHONE #3 (2 segments, feature selection data)

Segment 1:
1 = Alarms and Alarm Restores.
2 = Opening and Closings.
3 = Zone Bypass and Bypass Restores.
4 = Zone Trouble and Trouble Restores.
5 = Power Fail, Low Battery, Power Restore, and Low Battery Restore.
6 = Bell Cut, Telephone Line Cut, Bell Cut Restore, Telephone Line Restore.
7 = Test Reports.
8 = Start and End programming.

Segment 2:
1 = Zone and Box Tamper and Tamper Restore.
2 = Auxiliary Power Overcurrent and Ground Fault and Restore for both.
3 = Sensor Missing and Restore.
4 = Sensor Low Battery and Restore.
5 = Expander Trouble and Restore.
6 = Fail To Communicate.
7 = Zone Activity Monitor.
8 = Reserved.

LOCATION 17 - PARTITIONS REPORTED TO PHONE #3 (1 segment, feature selection data)

Location 17 is used when events to be reported to a phone number are based upon the partition regardless of the event. If this location is used, location 16 should be "0".

Segment 1:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

LOCATIONS 18 – 22 RESERVED

LOCATION 23 - PARTITION 1, FEATURE AND REPORT SELECTIONS (5 segments, feature selection data)

Location 23 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in location 23. Each of these features can be enabled by partition. For additional partition information see locations 88-109 on pages 25-27. **If the feature selection location for any partition is left blank, that partition will use this location for the feature selection.**

This location contains 3 segments of 8 features each. (See the feature definitions beginning on page 3.)

Segment 1:
1 - On enables the Quick Arm feature.
2 - On enables the Re-exit feature.
3 - On enables the Automatic Bypass feature.
4 - On enables the Silent Keypad Panic feature **(overrides the audible panic selection)**.
5 - On enables the Audible Keypad Panic feature.
6 - On enables the Keypad Aux 1 feature (FIRE).
7 - On enables the Keypad Aux 2 feature (MEDICAL).
8 - On enables the Keypad Multiple Code Attempt Tamper feature.

Segment 2:
1 - On enables the LED Extinguish feature.
2 - On enables the Require Code for Bypassing feature.
3 - On enables the Zone Bypassed Sounder Alert feature.
4 - On enables the AC Power/Low Battery Sounder Alert feature.
5 - On enables Bypass toggle.
6 - On enables Silent Auto Arm.
7 - On enables the Automatic Instant feature.
8 – On enables Instant mode. (Applies to NX1208E / NX1248E)

Segment 3:
1 - On enables Opening and Closing reports.
2 - On enables Zone Bypass reporting.
3 - On enables Zone Restore reporting.
4 - On enables Zone Trouble reporting.
5 - On enables Zone Tamper reporting.
6 - On enables the Cancel reporting.
7 - On enables the Recent Closing report.
8 - On enables the Exit Error report.

Segment 4:
1 – On enables Late to Close / Early to Open.
2 – On enables Auto Arm in Stay Mode.
3 – On disables the door delays in Night mode. (Applies to NX1208E / NX1248E)
4 - 8 Reserved.

Segment 5: Reserved

☞ **LOCATION 24 - ENTRY / EXIT TIMERS (6 segments, numerical data)**
Location 24 is used to program the Entry/Exit times. There are 2 separate Entry/Exit times.

Segment 1, Entry time 1: This is the entry time that will be used when a delay 1 zone type initiates an entry delay. Valid entries are 10-255 seconds.

Segment 2, Exit time 1: This is the exit time that will be used for all zones designated as delay 1. Valid entries are 10-255 seconds.

Segment 3, Entry time 2: This is the entry time that will be used when a delay 2 zone type initiates an entry delay. Valid entries are 10-255 seconds.

Segment 4, Exit time 2: This is the exit time that will be used for all zones designated as delay 2. Valid entries are 10-255 seconds.

Segments 5 & 6 Reserved.

XIII. DEFAULT ZONE TYPES (Configurations)

Zones can be programmed to be one of thirty different zone types (configurations). Zone types # 17 - 20 can be used for wireless or hardwired zones using European double EOL configuration. The default zone types are listed below. These zone types can be customized by programming locations 110-169.

DATA	DESCRIPTION OF DEFAULT ZONE TYPES
1	**DAY ZONE -** Instant when system is armed trouble zone when system is disarmed.
2	**24-HOUR AUDIBLE** - Creates an instant yelping siren alarm regardless of the armed state of the control panel.
3	**ENTRY/EXIT DELAY 1-** A trip will start entry delay 1. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
4	**FOLLOWER WITH AUTO- BYPASS DISABLED -** This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry and exit delay 1 times. This zone will not automatically bypass even if enabled in Segment 1 of Location 23.
5	**INTERIOR FOLLOWER WITH AUTO- BYPASS ENABLED -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay 1 times. This zone will automatically bypass if enabled in Segment 1 of Location 23.
6	**INSTANT -** This zone creates an instant alarm whenever it is tripped and the Armed LED is on.
7	**24-HOUR SILENT -** Creates an instant silent alarm regardless of the armed state of the control panel. It will not display on the keypad.
8	**FIRE -** This zone will light the Fire LED and sound the temporal siren each time the zone is shorted. It will also rapidly flash the Fire LED indicating a trouble if the zone is open.
9	**ENTRY/EXIT DELAY 2-** A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
10	**24-HOUR SILENT SUPERVISED-** Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad.
11	**KEYSWITCH ZONE -** This zone type will arm and disarm the partition or partitions of the control panel that it resides in each time the zone is shorted. Keyswitch arming will report as user #99.
12	**INTERIOR FOLLOWER WITH "CROSS ZONE" ENABLED** - This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. If a "Cross Zone" is not being timed it will start a "Cross Zone" timer. If a "Cross Zone" is being timed it will create an instant alarm. This zone will automatically bypass when enabled in Segment 1 of Location 23.
13	**INSTANT ENTRY GUARD -** This zone creates an instant alarm whenever it is tripped and the Stay LED is off. It will start an entry delay time 2 if it is tripped and the system is armed and the Stay LED is on.
14	**ENTRY/EXIT DELAY 1 WITH GROUP BYPASS ENABLED -** A trip will start entry delay 1. This zone will bypass when the "Group Bypass" command is entered at the keypad. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
15	**INTERIOR FOLLOWER WITH GROUP BYPASS ENABLED -** This zone will be instant when the system is armed and no entry or exit delays are being timed. It is delayed during entry/exit delay times. This zone will bypass when the "Group Bypass" command is entered at the keypad. This zone will automatically bypass if enabled in Segment 1 of Location 23.
16	**SUPERVISORY -** This zone creates an instant Sprinkler Supervisory report.
17	**ENTRY/EXIT DELAY 1 WITH TAMPER ENABLED-** A trip will start entry delay 1. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed. **This zone type can be used to enable tamper on a wireless transmitter.**
18	**INTERIOR FOLLOWER WITH TAMPER AND AUTO-BYPASS ENABLED -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. This zone will automatically bypass if enabled in Segment 1 of Location 23. **This zone type can be used to enable tamper on a wireless transmitter.**
19	**INSTANT WITH TAMPER ENABLED -** This zone creates an instant alarm whenever it is tripped and the Armed LED is on. **This zone type can be used to enable tamper on a wireless transmitter**.
20	**ENTRY/EXIT DELAY 2 WITH TAMPER ENABLED-**A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed. **This zone type can be used to enable tamper on a wireless transmitter.**

DATA	DESCRIPTION OF DEFAULT ZONE TYPES
21	**GAS DETECTION-** Creates an instant alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
22	**LOW TEMP DETECTION-** Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
23	**HIGH TEMP DETECTION-** Creates an instant silent alarm regardless of the armed state of the control panel. It will display on the keypad and activate the keypad sounder.
24	**MANUAL FIRE -** This zone will illuminate the Fire LED and sound the temporal siren each time the zone is shorted. It will also rapidly flash the Fire LED indicating a trouble if the zone is open.
25	**CHIME ONLY -** Creates no alarm regardless of the armed state of the control panel. It will chime anytime it is faulted and will display on the keypad. Local only.
26	**INTERIOR FOLLOWER DELAY 2 -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay 2 times. This zone will automatically bypass if enabled in Segment 1 of Location 23.
27	**INTERIOR FOLLOWER FORCE ARMABLE -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay 1 times. This zone will automatically bypass if enabled in Segment 1 of Location 23.
28	**ENTRY/EXIT FORCE ARMABLE DELAY 2 -** A trip will start entry delay 2. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.
29	**INTERIOR FOLLOWER WITH ACTIVITY SUPERVISION ENABLED -** This zone will be instant when the system is armed and no entry or exit delay is being timed. It is delayed during entry and exit delay times. It will send a report if the zone activity time is reached without a change of state. Refer to Location 40 / Segment 11. This zone will automatically bypass if enabled in Segment 1 of Location 23.
30	**ENTRY/EXIT WITH ACTIVITY SUPERVISION ENABLED-** A trip will start entry delay 1. It will send a report if the zone activity time is reached without a change of state. Refer to Location 40 / Segment 11. The lack of a trip during exit delay will enable the Automatic Bypass or Instant mode if so programmed.

☞ **LOCATION 25 - ZONES 1-8 ZONE TYPE (8 segments, numerical data)**
Location 25 contains the Zone Type for zones 1-8. Segment 1 is for zone 1, and Segment 8 is for zone 8. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 26 - PARTITION SELECT, ZONES 1-8 (8 segments, feature selection data)
Location 26 is used to select the partition(s) that zones 1 - 8 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition number.** Location 26 has 8 segments. Segment 1 corresponds to zone 1, and Segment 8 corresponds to zone 8.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 27 - ZONES 9-16 ZONE TYPE (8 segments, numerical data)**
Location 27 contains the Zone Type for zones 9 -16. Segment 1 is for zone 9; Segment 8 is for zone 16. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 28 - PARTITION SELECT, ZONES 9-16 (8 segments, feature selection data)
Location 28 is used to select the partition(s) that zones 9-16 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Location 28 has 8 segments. Segment 1 corresponds to zone 9 and Segment 8 corresponds to zone 16.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 29 - ZONES 17-24 ZONE TYPE (8 segments, numerical data)**
Location 29 contains the Zone Type for zones 17-24. Segment 1 is for zone 17; Segment 8 is for zone 24. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 30 - PARTITION SELECT, ZONES 17-24 (8 segments, feature selection data)
Location 30 is used to select the partition(s) that zones 17-24 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Location 30 has 8 segments. Segment 1 corresponds to zone 17 and Segment 8 corresponds to zone 24.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 31 - ZONES 25-32 ZONE TYPE GROUP (8 segments, numerical data)**
Location 31 contains the Zone Type for zones 25-32. Segment 1 is for zone 25; Segment 8 is for zone 32. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 32 - PARTITION SELECT, ZONES 25-32 (8 segments, feature selection data)
Location 32 is used to select the partition(s) that zones 25-32 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 25 and Segment 8 corresponds to zone 32.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 33 - ZONES 33-40 ZONE TYPE (8 segments, numerical data)**
Location 33 contains the Zone Type for zones 33-40. Segment 1 is for zone 33 Segment 8 is for zone 40. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 34 - PARTITION SELECT, ZONES 33-40 (8 segments of feature selection data)
Location 34 is used to select the partition(s) that zones 33-40 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 33 and Segment 8 corresponds to zone 40.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 35 - ZONES 41-48 ZONE TYPE (8 segments of numerical data)**
Location 35 contains the Zone type for zones 41-48. Segment 1 is for zone 41 Segment 8 is for zone 48. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 36 - PARTITION SELECT, ZONES 41-48 (8 segments, feature selection data)
Location 36 is used to select the partition or partitions that zones 41-48 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Location 36 has 8 segments. Segment 1 corresponds to zone 41 and Segment 8 corresponds to zone 48.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 37 - SIREN AND SYSTEM SUPERVISION (7 segments, feature selection data)**
Location 37 is used to enable various system feature and reporting options. (Refer to the feature definitions.)

Segment 1:
1 - On if siren sounds for "Telephone Line Cut" when armed.
2 - On if siren sounds for "Telephone Line Cut" when disarmed.
3 - On if siren blast at arming.
4 - On if siren blast at exit expiration.
5 - On if siren blast at closing kissoff.
6 - On if siren sounds during a "Cross Zone" verification time.
7 - On if siren sounds for a Zone or Box Tamper.
8 - On if siren blasts 1 time for keyswitch or wireless arming; 2 times for disarming.

Segment 2:
1 - On if siren driver should be a voltage output. Off if on board siren driver enabled.
2 - On if siren sounds for expander trouble. **(required for UL installations)**
3 - On for Immediate Restore by zone. Off for zones to restore only when siren is off.
4 - Reserved
5 - On if Battery Missing Test is performed every 12 seconds.
6 - On if Manual Bell Test performed during [□]-[**4**]-[**4**] test function.
7 - On if Manual Communicator Test performed during [□]-[**4**]-[**4**] test function.
8 - On if Box Tamper terminals on the control panel are enabled.

Segment 3:
1 - On if Box Tamper report enabled.
2 - On if AC Fail reporting enabled.
3 - On if Low Battery reporting enabled.
4 - On if Aux. Power Overcurrent report enabled.
5 - On if Siren Supervision report enabled.
6 - On if Telephone Line Cut report enabled.
7 - On if Ground Fault Detection report enabled.
8 - On if Expander Trouble reporting enabled.

Segment 4: 1 - On if Fail To Communicate report enabled.
2 - On if Log Full report enabled.
3 - On if Autotest report enabled.
4 - On if Start/End programming report enabled.
5 - Reserved.
6 - On if Sensor Low Battery report enabled.
7 - On if Sensor Missing report enabled.
8 - Reserved.

Segment 5: 1 = On enable Lost Clock service light.
2 = On enables NX-870E siren output to activate for FIRE ONLY.
3 = On disables On-Board 8 zones.
4 = On will allow two trips on same cross-zone to activate an alarm.
5 = On will **not** allow zones that are force armed to report bypass.
6 = On enables Silent Exit option.
7 = Use internal crystal for clock.
8 = Disable Temporal Siren on Fire. **NOTE: Do NOT disable for UL listed systems.**

Segment 6: 1 = Enable 2 wire smoke.
2 = Reserved.
3 = Enable for Zone Activity in Hours (not Days)
4 = Enable Daylight Savings Time (DST)
5 = Reserved
6 = On to disable Clean Me report (Clean Me report is enabled at default)
7-8 = Reserved.

Segment 7: Reserved

☞ **LOCATION 38 - SWINGER SHUTDOWN COUNT**
Location 38 contains the number of trips during an arming cycle that the control panel will allow before bypassing a zone. The count determination is described in the feature definitions beginning on page 3. **NOTE: For UL installations, this feature shall be disabled.**

☞ **LOCATION 39 - KEYPAD SOUNDER CONTROL (1 segment, feature selection data)**
Segment 1: 1 - On if keypad sounds for Telephone Line Cut when the system is armed.
2 - On if keypad sounds for Telephone Line Cut when disarmed.
3 - On if keypad sounds upon AC Power Failure.
4 - On if keypad sounds when a Low Battery is detected.
5 - On if keypad sounds during Cross Zone trip time.
6 - On if keypad sounds for zone and box tampers.
7 - Reserved.
8 - On if keypad sounds for expander trouble (required for UL installations).

☞ **LOCATION 40 - SYSTEM TIMERS (14 segments, numerical data)**
Location 40 contains the duration of various system timing functions. Example: If you desire the duration of the Dynamic Battery Test to be 30 minutes, you should program [3]-[0]-[✱] in segment 1 of this location. The [3]-[0] is the number of minutes, and the [✱] stores the data and moves to the next segment of this location.

Segment 1 - Dynamic Battery Test duration in minutes 0-255 minutes **(0 = no test) UL requires the Dynamic Battery Test cannot exceed 4 hours.**
Segment 2 - AC Fail report delay in minutes 0-255 hours.
Segment 3 - Power Up Delay in seconds 0-60 seconds (**0 = no power up delay**).
Segment 4 - Siren Time in minutes 1-255 minutes.
Segment 5 - Telephone Line Cut delay in seconds 10-175 seconds **(0 = no TLM).**
Segment 6 - Cross Zone time in minutes 0-255 **(0 = no cross zoning).**
Segment 7 - Chime time in 50 mS (1/20th second) increments from 0-12 seconds (0 = follows zone 255 latched).
Segment 8 - Dial delay in seconds 0-255 seconds **(0 = no abort delay). UL requires the Dial Delay shall be set to –0-.**
Segment 9 - Fire Alarm Verification time in seconds 120-255 seconds **(0 = no fire alarm verification)**. ***NOTE: This feature is not approved for residential use in California.***
Segment 10 - Reserved
Segment 11 – Zone Activity Monitor feature timed in days 0 – 255 **(0 = disabled)**
Segments 12-14 Reserved.

LOCATION 41 - SPECIAL FEATURES (1 segment, feature selection data)

Segment 1:

1 - On enables the 6-digit code option. If 6-digit option is enabled, all arm/disarm codes and the "Go To Program Code" are 6 digits. If this option is enabled, the default user 1 code is [**1**]-[**2**]-[**3**]-[**4**]-[**5**]-[**6**]. **NOTE: IF YOU ENABLE THIS OPTION, VERIFY THAT THE "GO TO PROGRAM CODE" IS A SIX-DIGIT CODE BEFORE EXITING PROGRAMMING.**

2 - Reserved.

3 - Enable Auto Cancel / Abort ✍ **Not for Commercial Fire use.**

4 - Enable Walk-Test Mode

5-8 Reserved.

☞ **LOCATION 42 - GO TO PROGRAM CODE (6 segments, numerical data)**

Location 42 contains the "Go To Program Code". This location contains either a 4 or 6-digit code. If the 6-digit code option is enabled in Location 41, THIS CODE MUST CONTAIN SIX (6) DIGITS. If this option is not enabled in location 41, the last 2 segments (digits) will be ignored. With the NX-8E-CF disarmed, the "Go To Program Code" can be used to enter the Program Mode.

LOCATION 43 - GO TO PROGRAM CODE PARTITION AND AUTHORIZATION (2 segments, feature selection)

The "Go To Program Code" can be used as a standard arm/disarm code. When using the code to arm or disarm, the user ID is 255. (This code may not be changed in the Run Mode.)

Segment 1: 1 - Reserved.
2 - On enables "Go To Program Code" as an arm only code.
3 - On enables "Go To Program Code" as an arm only after closing.
4 - On enables "Go To Program Code" as a master arm/disarm code (can change user codes)
5 - On enables "Go To Program Code" as an arm/disarm code.
6 - On enables "Go To Program Code" to bypass zones.
7 - On enables "Go To Program Code" opening and closing reports.
8 - Reserved.

Segment 2: 1 - On enables the "Go To Program Code" for Partition #1.
2 - On enables the "Go To Program Code" for Partition #2.
3 - On enables the "Go To Program Code" for Partition #3.
4 - On enables the "Go To Program Code" for Partition #4.
5 - On enables the "Go To Program Code" for Partition #5.
6 - On enables the "Go To Program Code" for Partition #6.
7 - On enables the "Go To Program Code" for Partition #7.
8 - On enables the "Go To Program Code" for Partition #8.

☞ **LOCATION 44 - DURESS CODE (6 segments, numerical data)**

Location 44 contains the "Duress" code. This Location contains either 4 or 6 digits. If the 6-digit code option is enabled in Location 41, THIS CODE MUST CONTAIN SIX (6) DIGITS. If the 6-digit option is not enabled in location 41, the last 2 digits will be ignored. **If the duress code is programmed, it will work for all partitions.**

LOCATION 45 - AUXILIARY OUTPUT 1-4 PARTITION SELECTION (4 segments, feature selection data)

Location 45 is used to select which partition(s) the events must occur in before the output will activate. Location 45 has 4 segments. Segment 1 corresponds to output 1, and Segment 4 corresponds to output 4.

Segment 1 (Aux 1)	Segment 2 (Aux 2)	Segment 3 (Aux 3)	Segment 4 (Aux 4)
1= Partition #1	1= Partition #1	1= Partition #1	1= Partition #1
2= Partition #2	2= Partition #2	2= Partition #2	2= Partition #2
3= Partition #3	3= Partition #3	3= Partition #3	3= Partition #3
4= Partition #4	4= Partition #4	4= Partition #4	4= Partition #4
5= Partition #5	5= Partition #5	5= Partition #5	5= Partition #5
6= Partition #6	6= Partition #6	6= Partition #6	6= Partition #6
7= Partition #7	7= Partition #7	7= Partition #7	7= Partition #7
8= Partition #8	8= Partition #8	8= Partition #8	8= Partition #8

LOCATION 46 - AUXILIARY OUTPUT 1-4 SPECIAL TIMING (4 segments, feature selection data)

Location 46 contains special timing feature activation for the four auxiliary outputs. Segment 1 corresponds to output 1; Segment 4 corresponds to output 4.

Segments 1 - 4: 1 = On if output should be timed in minutes; Off if timed in seconds.
2 = On if output should latch; Off if output should be timed.
3 = On if output should stop timing upon code entry; Off if the output should continue to time upon code entry.
4 = On if output should only activate between the closing and opening time in loc. 52 and 53.
5 = On if output should only activate between the opening and closing time in loc. 52 and 53.
6 = On if output should be inverted (0 volts going to 12 volts when activated).
7 = Reserved.
8 = Reserved.

LOCATION 47 - AUXILIARY OUTPUT #1, EVENT AND TIME (2 segments, numerical data)

Segment 1: Use the chart on page 24 to select the event that will activate Auxiliary Output 1.

Segment 2: Program the timing from 0-255 (minutes or seconds, depending on data programmed in Segment 1, Location 46). Programming a "0" makes the output follow the event.

LOCATION 48 - AUXILIARY OUTPUT #2, EVENT AND TIME (2 segments, numerical data)

Segment 1: Use the chart on page 24 to select the event that will activate Auxiliary Output 2.

Segment 2: Program the timing from 0-255 (minutes or seconds, depending on data programmed in Segment 2, Location 46). Programming a "0" makes the output follow the event.

LOCATION 49- AUXILIARY OUTPUT #3, EVENT AND TIME (2 segments, numerical data)

Segment 1: Use the chart on page 24 to select the event that will activate Auxiliary Output 3.

Segment 2: Program the timing from 0-255 (minutes or seconds, depending on data programmed in Segment 3, Location 46). Programming a "0" makes the output follow the event.

LOCATION 50- AUXILIARY OUTPUT #4, EVENT AND TIME (2 segments, numerical data)

Segment 1: Use the chart on page 24 to select the event that will activate Auxiliary Output 4. .

Segment 2: Program the timing from 0-255 (minutes or seconds, depending on data programmed in Segment 4, Location 46). Programming a "0" makes the output follow the event.

Table XIII-1 AUXILIARY OUTPUT EVENT SELECTION

DATA	EVENT	DATA	EVENT	DATA	EVENT
0 √	Burglary Alarm	19	Exit	38	Download In Process
1 √	Fire Alarm	20	Entry or Exit	39	Ground Fault
2 √	24 Hour Alarm	21	Armed State	40	Short Circuit (Over-current)
3 √	Trouble Alarm	22	Disarmed State	41	Box Tamper
4 √	Tamper Alarm	23	Ready	42	Siren Tamper
5	Yelping Siren (Burglary)	24	Not Ready	43	Any Open
6	Temporal Siren (Fire)	25	Fire	44	Any Short
7	Any Siren	26	Fire Trouble	45	Any Fault (Open/ Short on Non-Fire Zone)
8	Any Bypass	27	Chime	46 √	Any Alarm
9	AC Fail	28 √	Expander Trouble	47	Beeping Keypad
10	Low Battery	29	Dynamic Battery Test Time	48 √	Code Entry (See note below)
11 √	Duress	30	Open Period	49 ❖ √	Key FOB Function 1
12 √	Aux 1 Keypad Zone	31	Closed Period	50 ❖ √	Key FOB Function 2
13 √	Aux 2 Keypad Zone	32	Listen-In	51	Always ON
14 √	Panic Keypad Zone	33	Line Seizure	52	Alarm Flash
15	Keypad Tamper	34	Ground Start	53	Armed Away
16 √	Autotest	35	Fail To Communicate	54	Armed Stay
17	Alarm Memory	36	Telephone Line Fault	55	Aux Comm Fail
18	Entry	37	Program Mode		

❖ **Events 49 & 50 require NX-408E, NX-416E, or NX-448E wireless receivers to operate.**

√ **If set to follow condition, these events will be 1 second.**

Notes: When Event 48 is programmed, it is possible to program a user code's authorization to select which output(s) a particular code will activate. **(Refer to "Assigning User Authority" in the NX-148ECF installation manual)**

☞ **LOCATION 51 - AUTOTEST CONTROL (4 segments, numerical data)**

Segment 1: Program a "1" if the interval is to be in hours; Program a "0" if in days. Add a A2" to suppress the daily test or a A3" to suppress the hourly test if any report has been sent. (Default = 1)

Segment 2: Program the Autotest interval from 1-255 hours/days. (Default = 24)

Segment 3: Program the Autotest report hour in 24-hour format (if the interval is in hours, this segment is ignored). (Default = 2)

Segment 4: Program the Autotest report time, number of minutes after the hour. (Default = 0)

LOCATION 52 - OPENING TIME (2 segments, numerical data)

Location 52 contains the time in 24 hour format the NX-8E-CF enables codes designated as arm only after closing. This time is only valid on those days programmed in location 54. **Note:** Opening time must be earlier than closing time for Auto Arm, Aux. Outputs, or Code Authorization to function properly.

Segment 1: Program the hour of the opening time.

Segment 2: Program the minutes after the hour of the opening time.

LOCATION 53 - CLOSING TIME/AUTOMATIC ARMING TIME (2 segments, numerical data)
Location 53 contains the time in 24 hour format the NX-8E-CF disables the disarm capability for codes designated as arm only after closing. This is also the time the Automatic Arming sequence will begin (if enabled in location 55).

Segment 1: Program the hour of the closing / auto arm time**.**
Segment 2: Program the minutes after the hour of the closing / auto arm time.

LOCATION 54 - DAYS OF THE WEEK EACH PARTITION IS OPEN (8 Segments, feature selection data)
Location 54 selects which days of the week each partition is open. On these days, "arm only after close window" codes will be able to arm and disarm during open window. **NOTE: If any partition is not programmed to be opened and is programmed to Auto-Arm (Location 55), the NX-8E-CF will try to arm every 45 minutes for the duration of the closed period unless Auto Retry is disabled in location 55.** On days not selected here, Aarm only after close window@ codes will not disarm. Segment 1 is for partition 1, and segment 8 is for partition 8**. (See locations 52 and 53 for the opening and closing times for the open days.)**

Segment 1-8:
1 - Open on Sunday.
2 - Open on Monday.
3 - Open on Tuesday.
4 - Open on Wednesday.
5 - Open on Thursday.
6 - Open on Friday.
7 - Open on Saturday.
8 – Reserved.

LOCATION 55 - DAYS OF THE WEEK FOR AUTO ARMING IN PARTITIONS 1 THRU 8 (8 Segments, feature selection data)
Location 55 selects which days each partition will auto arm. Segment 1 is for partition 1, and segment 8 is for partition 8. If a zone is faulted when the panel tries to auto arm, the zone will be bypassed.

Segments 1-8:
1 - Auto Arming on Sunday.
2 - Auto Arming on Monday.
3 - Auto Arming on Tuesday.
4 - Auto Arming on Wednesday.
5 - Auto Arming on Thursday.
6 - Auto Arming on Friday.
7 - Auto Arming on Saturday.
8 - Disable 45 minute retry timer.

LOCATION 56 - 87 RESERVED

LOCATIONS 88-109 ARE FOR PROGRAMMING DIFFERENT ACCOUNT CODES AND/OR FEATURES FOR EACH PARTITION. IF A LOCATION IS LEFT UNPROGRAMMED, THE FEATURE FOR PARTITION 1 AND ACCOUNT CODE FOR THE PHONE NUMBER WILL BE USED.

LOCATION 88 - ACCOUNT CODE FOR PARTITION 1 (6 segments, numerical data)
Location 88 contains the account code sent when partition 1 is reported. **If location 88 is left unprogrammed (all "10"s), then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

LOCATION 89 - ACCOUNT CODE FOR PARTITION 2 (6 segments, numerical data)
Location 89 contains the account code sent when partition 2 is reported. **If location 89 is left unprogrammed (all "10"s), then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long program all 6 segments.

LOCATION 90 - PARTITION 2 FEATURE AND REPORTING SELECTIONS (5 segments, feature selection data)
Location 90 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 5 segments, with eight possible features per segment. Refer to Location 23 (page 18) for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.**

LOCATION 91 - PARTITION 2 ENTRY EXIT TIMERS (6 segments, numerical data)
Location 91 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. **If all segments are A0", the entry and exit times for partition 1 will be used.**

Segment 1, Entry time 1: Entry time that will be used when a Delay 1 zone type initiates an entry delay.
Segment 2, Exit time 1: Exit time that will be used for all zones designated as Delay 1.
Segment 3, Entry time 2: Entry time that will be used when a Delay 2 zone type initiates an entry delay.
Segment 4, Exit time 2: Exit time that will be used for all zones designated as Delay 2.
Segments 5 & 6: Reserved

LOCATION 92 - ACCOUNT CODE FOR PARTITION 3 (6 segments, numerical data)
The account code sent when partition 3 is reported is programmed in location 92. **If location 92 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long program all 6 segments.

LOCATION 93 - PARTITION 3 FEATURE AND REPORTING SELECTIONS (5 segments, feature selection data)
Location 93 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 5 segments, with eight possible features per segment. Refer to Location 23 (page 18) for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.**

LOCATION 94 - PARTITION 3 ENTRY EXIT TIMERS (6 segments, numerical data)
Location 94 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. **If all segments are A0", the entry and exit times for partition 1 will be used.**

Segment 1, Entry time 1: Entry time that will be used when a Delay 1 zone type initiates an entry delay.
Segment 2, Exit time 1: Exit time that will be used for all zones designated as Delay 1.
Segment 3, Entry time 2: Entry time that will be used when a Delay 2 zone type initiates an entry delay.
Segment 4, Exit time 2: Exit time that will be used for all zones designated as Delay 2.
Segments 5 & 6: Reserved

LOCATION 95 - ACCOUNT CODE FOR PARTITION 4 (6 segments, numerical data)
The account code sent when partition 4 is reported is programmed in location 95. **If location 95 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

LOCATION 96 - PARTITION 4 FEATURE AND REPORTING SELECTIONS (5 segments, feature selection data)
Location 96 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 5 segments, with eight possible features per segment. Refer to Location 23 (page 18) for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.**

LOCATION 97 - PARTITION 4 ENTRY EXIT TIMERS (6 segments, numerical data)
Location 97 is used to enter in seconds the Entry and exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. **If all segments are A0", the entry and exit times for partition 1 will be used.**

Segment 1, Entry time 1: Entry time that will be used when a Delay 1 zone type initiates an entry delay.
Segment 2, Exit time 1: Exit time that will be used for all zones designated as Delay 1.
Segment 3, Entry time 2: Entry time that will be used when a Delay 2 zone type initiates an entry delay.
Segment 4, Exit time 2: Exit time that will be used for all zones designated as Delay 2.
Segments 5 & 6: Reserved

LOCATION 98 - ACCOUNT CODE FOR PARTITION 5 (6 segments, numerical data)
The account code sent when partition 5 is reported is programmed in location 98. **If location 98 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

LOCATION 99 - PARTITION 5 FEATURE AND REPORTING SELECTIONS (5 SEGMENTS, NUMERICAL DATA)
Location 99 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 5 segments, with eight possible features per segment. Refer to Location 23 (page 18) for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.**

LOCATION 100 - PARTITION 5 ENTRY EXIT TIMERS (6 segments, numerical data)
Location 100 is used to enter in seconds the Entry and exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. **If all segments are "0", the entry and exit times for partition 1 will be used.**

Segment 1, Entry Time 1: Entry time that will be used when a delay 1 zone type initiates an entry delay.
Segment 2, Exit Time 1: Exit time that will be used for all zones designated as delay 1.
Segment 3, Entry Time 2: Entry time that will be used when a delay 2zone type initiates an entry delay.
Segment 4, Exit Time 2: Exit time that will be used for all zones designated as delay 2.
Segments 5 & 6: Reserved

LOCATION 101 - ACCOUNT CODE FOR PARTITION 6 (6 segments, numerical data)
The account code sent when partition 6 is reported is programmed in location 101. **If location 101 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** Program the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

LOCATION 102 - PARTITION 6 FEATURE AND REPORTING SELECTIONS (5 segments, feature selection data)
Location 102 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 5 segments, with eight possible features per segment. Refer to Location 23 (page 18) for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.**

LOCATION 103 - PARTITION 6 ENTRY EXIT TIMERS (6 segments, numerical data)
Location 103 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. **If all segments are "0", the entry and exit times for partition 1 will be used.**

Segment 1, Entry Time 1: Entry time that will be used when a Delay 1 zone type initiates an entry delay.
Segment 2, Exit Time 1: Exit time that will be used for all zones designated as Delay 1.
Segment 3, Entry Time 2: Entry time that will be used when a Delay 2 zone type initiates an entry delay.
Segment 4, Exit Time 2: Exit time that will be used for all zones designated as Delay 2.
Segments 5 & 6: Reserved

LOCATION 104 - ACCOUNT CODE FOR PARTITION 7 (6 segments, numerical data)
The account code sent when partition 7 is reported is programmed in location 104. **If location 104 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

LOCATION 105 - PARTITION 7 FEATURE AND REPORTING SELECTIONS (5 segments, feature selection data)
Location 105 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 5 segments, with eight possible features per segment. Refer to Location 23 (page 18) for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.**

LOCATION 106 - PARTITION 7 ENTRY EXIT TIMERS (6 segments, numerical data)
Location 106 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. **If all segments are "0", the entry and exit times for partition 1 will be used.**

Segment 1, Entry Time 1: Entry time that will be used when a Delay 1 zone type initiates an entry delay.
Segment 2, Exit Time 1: Exit time that will be used for all zones designated as Delay 1.
Segment 3, Entry Time 2: Entry time that will be used when a Delay 2 zone type initiates an entry delay.
Segment 4, Exit Time 2: Exit time that will be used for all zones designated as Delay 2.
Segments 5 & 6: Reserved

LOCATION 107 - ACCOUNT CODE FOR PARTITION 8 (6 segments, numerical data)
The account code sent when partition 8 is reported is programmed in location 107. **If location 107 is left unprogrammed (all "10") then the account code corresponding to the Phone number dialed will be used.** If the account code is less than six digits, program a "10" in the segment immediately after the last digit of the account code. If the account code is 6 digits long, program all 6 segments.

LOCATION 108 - PARTITION 8 FEATURE AND REPORTING SELECTIONS (5 segments, feature selection data)
Location 108 is used to enable certain features that can be accessed or are visible to the user from the keypad of the system. In addition, certain communicator reports are enabled in this location. Each of these features can be enabled by partition. This location contains 5 segments, with eight possible features per segment. Refer to Location 23 (page 18) for the feature selections. **If all segments are blank (nothing enabled), the features for partition 1 will be used.**

LOCATION 109 - PARTITION 8 ENTRY EXIT TIMERS (6 segments, numerical data)
Location 109 is used to enter in seconds the Entry and Exit times. There are 2 separate entry and exit times. Valid entries are 10-255 seconds. **If all segments are "0", the entry and exit times for partition 1 will be used.**

Segment 1, Entry Time 1: Entry time that will be used when a Delay 1 zone type initiates an entry delay.
Segment 2, Exit Time 1: Exit time that will be used for all zones designated as Delay 1.
Segment 3, Entry Time 2: Entry time that will be used when a Delay 2 zone type initiates an entry Delay.
Segment 4, Exit Time 2: Exit time that will be used for all zones designated as Delay 2.
Segments 5 & 6: Reserved

LOCATIONS 110-169 ARE USED TO CHANGE THE ZONE TYPES (Configurations) AS LISTED IN THE TABLE ON PAGE 19. THESE LOCATIONS ARE CONSIDERED ADVANCED PROGRAMMING AND SHOULD ONLY BE CHANGED WITH A THOROUGH UNDERSTANDING OF THE OPERATION OF EACH BIT.

***IMPORTANT*: FIRE ZONE CHARACTERISTICS ARE PRESET AND CANNOT BE CHANGED IN UL LISTED SYSTEMS. (LOCATIONS 111-149)**

LOCATION 110 - ZONE TYPE 1 ALARM EVENT CODE (1 segment, numerical data)
Location 110 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm.

4+2 Format Note: If 4+2 format is being used, the number programmed in this location will be sent as the upper hex digit. The digit in location 110 should be from 1 to 15 when using 4+2 formats. The zone ID or user ID will be the lower hex digit of the zone that is in alarm.

LOCATION 111 - ZONE TYPE 1 CHARACTERISTIC SELECT (5 segments, feature selection data)

Segment 1:
1 = Fire (turn on if this is a fire zone).
2 = 24 hour (turn on for non-fire 24 hour zones).
3 = Keyswitch zone. (normally open switch)
4 = Follower (turn on for burglary zones that are Instant during non-entry times).
5 = Delay 1 zone (follows timer 1 entry and exit times).
6 = Delay 2 zone (follows timer 2 entry and exit times).
7 = Interior (turn on if this zone should Automatically Bypass or Bypass for Stay Arming).
8 = Local only (turn on if this zone should not be reported).

Segment 2:
1 = On if Zone Type will beep the keypad for alarm.
2 = On if Zone Type will sound the yelping siren for alarm.
3 = On if Zone Type will sound the temporal siren for alarm.
4 = On if Zone Type will chime.
5 = On if Zone Type can be bypassed.
6 = On if Zone Type is included in the group shunt.
7 = On if Zone Type is force armable.
8 = On if Zone Type is entry guard.

Segment 3:
1 = On enables Sprinkler Supervisory.
2 = On enables Double End Of Line Tamper zone. (Mainly used for tamper on wireless zones)
3 = On enables Trouble Reporting zone. (Day zone and Fire zones)
4 = On if Zone Type is a Cross Zone.
5 = On enables Dialer Delay zone. (See location 40, page 22)
6 = On if Zone Type will swinger shutdown. (See location 38, page 22)
7 = On enables Restore reporting.
8 = Reserved

Segment 4:
1 = On enables Zone Activity Monitor. (See location 40, page 22)
2 = On enables End of Line Resistor Defeat on Non-Fire/Non-Keyswitch zones.
3 = On delays alarm activation 60 seconds (Do not enable unless configured with Access Control.)
4 = On enables zone to act as *request to exit* input / disables for alarm activation.
5-8 = Reserved.

Segment 5: Reserved.

LOCATION 112 - ZONE TYPE 2 ALARM EVENT CODE (1 segment, numerical data)
Location 112 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 113 - ZONE TYPE 2 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 114 - ZONE TYPE 3 ALARM EVENT CODE (1 segment, numerical data)
Location 114 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 115 - ZONE TYPE 3 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 116 - ZONE TYPE 4 ALARM EVENT CODE (1 segment, numerical data)
Location 116 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 117 - ZONE TYPE 4 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 118 - ZONE TYPE 5 ALARM EVENT CODE (1 segment, numerical data)
Location 118 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 119 - ZONE TYPE 5 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 120 - ZONE TYPE 6 ALARM EVENT CODE (1 segment, numerical data)
Location 120 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 121 - ZONE TYPE 6 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 122 - ZONE TYPE 7 ALARM EVENT CODE (1 segment, numerical data)
Location 122 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 123 - ZONE TYPE 7 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 124 - ZONE TYPE 8 ALARM EVENT CODE (1 segment, numerical data)
Location 124 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 125 - ZONE TYPE 8 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 126 - ZONE TYPE 9 ALARM EVENT CODE (1 segment, numerical data)
Location 126 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 127 - ZONE TYPE 9 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 128 - ZONE TYPE 10 ALARM EVENT CODE (1 segment, numerical data)
Location 128 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 129 - ZONE TYPE 10 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 130 - ZONE TYPE 11 ALARM EVENT CODE (1 segment, numerical data)
Location 130 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 131 - ZONE TYPE 11 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 132 - ZONE TYPE 12 ALARM EVENT CODE (1 segment, numerical data)
Location 132 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 133 - ZONE TYPE 12 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 134 - ZONE TYPE 13 ALARM EVENT CODE (1 segment, numerical data)
Location 134 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 135 - ZONE TYPE 13 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 136 - ZONE TYPE 14 ALARM EVENT CODE (1 segment, numerical data)
Location 136 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 137 - ZONE TYPE 14 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 138 - ZONE TYPE 15 ALARM EVENT CODE (1 segment, numerical data)
Location 138 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 139 - ZONE TYPE 15 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 140 - ZONE TYPE 16 ALARM EVENT CODE (1 segment, numerical data)
Location 140 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 141 - ZONE TYPE 16 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 142 - ZONE TYPE 17 ALARM EVENT CODE (1 segment, numerical data)
Location 142 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 143 - ZONE TYPE 17 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 144 - ZONE TYPE 18 ALARM EVENT CODE (1 segment, numerical data)
Location 144 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 145 - ZONE TYPE 18 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 146 - ZONE TYPE 19 ALARM EVENT CODE (1 segment, numerical data)
Location 146 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 147 - ZONE TYPE 19 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 148 - ZONE TYPE 20 ALARM EVENT CODE (1 segment, numerical data)
Location 148 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 149 - ZONE TYPE 20 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 150 - ZONE TYPE 21 ALARM EVENT CODE (1 segment, numerical data)
Location 150 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 151 - ZONE TYPE 21 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 152 - ZONE TYPE 22 ALARM EVENT CODE (1 segment, numerical data)
Location 152 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 153 - ZONE TYPE 22 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 154 - ZONE TYPE 23 ALARM EVENT CODE (1 segment, numerical data)
Location 154 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 155 - ZONE TYPE 23 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 156 - ZONE TYPE 24 ALARM EVENT CODE (1 segment, numerical data)
Location 156 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 157 - ZONE TYPE 24 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 158 - ZONE TYPE 25 ALARM EVENT CODE (1 segment, numerical data)
Location 158 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 159 - ZONE TYPE 25 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 160 - ZONE TYPE 26 ALARM EVENT CODE (1 segment, numerical data)
Location 160 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 161 - ZONE TYPE 26 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 162 - ZONE TYPE 27 ALARM EVENT CODE (1 segment, numerical data)
Location 162 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 163 - ZONE TYPE 27 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 164 - ZONE TYPE 28 ALARM EVENT CODE (1 segment, numerical data)
Location 164 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 165 - ZONE TYPE 28 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 166 - ZONE TYPE 29 ALARM EVENT CODE (1 segment, numerical data)
Location 166 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 167 - ZONE TYPE 29 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

LOCATION 168 - ZONE TYPE 30 ALARM EVENT CODE (1 segment, numerical data)
Location 168 contains the event code sent for a Contact ID or SIA report. The desired event code should be chosen from the list on page 55. The zone ID will be that zone that is in alarm. If 4+2 format is being used, refer to Location 110 on page 28 for details.

LOCATION 169 - ZONE TYPE 30 CHARACTERISTIC SELECT (5 segments, feature selection data)
Use "Zone Type Characteristic Selections" described in Location 111, page 28.

☞ **LOCATION 170 - ZONES 49-56 ZONE TYPE (8 segments, numerical data)**
Location 170 contains the Zone Type for zones 49 - 56. Segment 1 is for zone 49; Segment 8 is for zone 56. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 171 - PARTITION SELECT, ZONES 49-56 (8 segments of feature selection data)
Location 171 is used to select the partition(s) that zones 49-56 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 49 and Segment 8 corresponds to zone 56.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 172 - ZONES 57-64 ZONE TYPE (8 segments, numerical data)**
Location 172 contains the Zone Type for zones 57-64. Segment 1 is for zone 57; Segment 8 is for zone 64. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 173 - PARTITION SELECT, ZONES 57-64 (8 segments of feature selection data)
Location 173 is used to select the partition(s) that zones 57-64 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 57 and Segment 8 corresponds to zone 64.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 174 - ZONES 65-72 ZONE TYPE (8 segments, numerical data)**
Location 174 contains the Zone Type for zones 65 - 72. Segment 1 is for zone 65; Segment 8 is for zone 72. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 175 - PARTITION SELECT, ZONES 65-72 (8 segments of feature selection data)
Location 175 is used to select the partition(s) that zones 65-72 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 65 and Segment 8 corresponds to zone 72.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 176 - ZONES 73-80 ZONE TYPE (8 segments, numerical data)**
Location 176 contains the Zone Type for zones 73-80. Segment 1 is for zone 73; Segment 8 is for zone 80. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 177 - PARTITION SELECT, ZONES 73-80 (8 segments of feature selection data)
Location 177 is used to select the partition(s) that zones 73-80 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 73 and Segment 8 corresponds to zone 80.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 178 - ZONES 81-88 ZONE TYPE (8 segments, numerical data)**
Location 178 contains the Zone Type for zones 81-88. Segment 1 is for zone 81; Segment 8 is for zone 88. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 179 - PARTITION SELECT, ZONES 81-88 (8 segments of feature selection data)
Location 173 is used to select the partition(s) that zones 81 - 88 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 81 and Segment 8 corresponds to zone 88.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 180 - ZONES 89-96 ZONE TYPE (8 segments, numerical data)**
Location 180 contains the Zone Type for zones 89 - 96. Segment 1 is for zone 89; Segment 8 is for zone 96. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 181 - PARTITION SELECT, ZONES 89-96 (8 segments of feature selection data)
Location 181 is used to select the partition(s) that zones 89 - 96 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 89 and Segment 8 corresponds to zone 96.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 182 - ZONES 97-104 ZONE TYPE (8 segments, numerical data)**
Location 182 contains the Zone Type for zones 97-104. Segment 1 is for zone 97; Segment 8 is for zone 104. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 183 - PARTITION SELECT, ZONES 97-104 (8 segments of feature selection data)
Location 183 is used to select the partition(s) that zones 97-104 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 97 and Segment 8 corresponds to zone 104.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 184 - ZONES 105-112 ZONE TYPE (8 segments, numerical data)**
Location 184 contains the Zone Type for zones 105-112. Segment 1 is for zone 105; Segment 8 is for zone 112. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 185 - PARTITION SELECT, ZONES 105-112 (8 segments of feature selection data)
Location 185 is used to select the partition(s) that zones 105-112 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 105 and Segment 8 corresponds to zone 112.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 186 - ZONES 113-120 ZONE TYPE (8 segments, numerical data)**
Location 186 contains the Zone Type for zones 113-120. Segment 1 is for zone 113; Segment 8 is for zone 120. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 187 - PARTITION SELECT, ZONES 113-120 (8 segments of feature selection data)
Location 187 is used to select the partition(s) that zones 113-120 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 113 and Segment 8 corresponds to zone 120.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 188 - ZONES 121-128 ZONE TYPE (8 segments, numerical data)**
Location 188 contains the Zone Type for zones 121-128. Segment 1 is for zone 121; Segment 8 is for zone 128. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 189 - PARTITION SELECT, ZONES 121-128 (8 segments of feature selection data)
Location 189 is used to select the partition(s) that zones 121-128 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 121 and Segment 8 corresponds to zone 128.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 190 - ZONES 129-136 ZONE TYPE (8 segments, numerical data)**
Location 190 contains the Zone Type for zones 129-136. Segment 1 is for zone 129; Segment 8 is for zone 136. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 191 - PARTITION SELECT, ZONES 129-136 (8 segments of feature selection data)
Location 191 is used to select the partition(s) that zones 129-136 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 129 and Segment 8 corresponds to zone 136.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 192 - ZONES 137-144 ZONE TYPE (8 segments, numerical data)**
Location 192 contains the Zone Type for zones 137-144. Segment 1 is for zone 137; Segment 8 is for zone 144. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 193 - PARTITION SELECT, ZONES 137-144 (8 segments of feature selection data)
Location 193 is used to select the partition(s) that zones 137-144 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 137 and Segment 8 corresponds to zone 144.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 194 - ZONES 145-152 ZONE TYPE (8 segments, numerical data)**
Location 194 contains the Zone Type for zones 145-152. Segment 1 is for zone 145; Segment 8 is for zone 152. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 195 - PARTITION SELECT, ZONES 145-152 (8 segments of feature selection data)
Location 195 is used to select the partition(s) that zones 145-152 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 145 and Segment 8 corresponds to zone 152.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 196 - ZONES 153-160 ZONE TYPE (8 segments, numerical data)**
Location 196 contains the Zone Type for zones 153-160. Segment 1 is for zone 153; Segment 8 is for zone 160. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 197 - PARTITION SELECT, ZONES 153-160 (8 segments of feature selection data)
Location 197 is used to select the partition(s) that zones 153-160 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 153 and Segment 8 corresponds to zone 160.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 198 - ZONES 161-168 ZONE TYPE (8 segments, numerical data)**
Location 198 contains the Zone Type for zones 161-168. Segment 1 is for zone 161; Segment 8 is for zone 168. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 199 - PARTITION SELECT, ZONES 161-168 (8 segments of feature selection data)
Location 199 is used to select the partition(s) that zones 161-168 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 161 and Segment 8 corresponds to zone 168.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 200 - ZONES 169-176 ZONE TYPE (8 segments, numerical data)**
Location 200 contains the Zone Type for zones 169-176. Segment 1 is for zone 169; Segment 8 is for zone 176. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 201 - PARTITION SELECT, ZONES 169-176 (8 segments of feature selection data)
Location 201 is used to select the partition(s) that zones 169-176 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 169 and Segment 8 corresponds to zone 176.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 202 - ZONES 177-184 ZONE TYPE (8 segments, numerical data)**
Location 202 contains the Zone Type for zones 177-184. Segment 1 is for zone 177; Segment 8 is for zone 184. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 203 - PARTITION SELECT, ZONES 177-184 (8 segments of feature selection data)
Location 203 is used to select the partition(s) that zones 177-184 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 177 and Segment 8 corresponds to zone 184.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

☞ **LOCATION 204 - ZONES 185-192 ZONE TYPE (8 segments, numerical data)**
Location 204 contains the Zone Type for zones 185-192. Segment 1 is for zone 185; Segment 8 is for zone 192. Default Zone Types are found in the table on page 19. To customize a Zone Type, see page 28.

LOCATION 205 - PARTITION SELECT, ZONES 185-192 (8 segments of feature selection data)
Location 205 is used to select the partition(s) that zones 185-192 reside in. A zone may reside in any combination of the 8 partitions. **If a burglary zone resides in more than 1 partition, it will only be active when all partitions are armed. A zone that resides in more than 1 partition will be reported to its lowest partition.** Segment 1 corresponds to zone 185 and Segment 8 corresponds to zone 192.

Segments 1 - 8:

1 = Partition #1	3 = Partition #3	5 = Partition #5	7 = Partition #7
2 = Partition #2	4 = Partition #4	6 = Partition #6	8 = Partition #8

LOCATION 206 – AUTO DISARM DAY SELECTOR (8 segments of feature selection data)
Location 206 selects which days each partition will auto disarm. Segment 1 is for partition 1, and segment 8 is for partition 8. If a zone is faulted when the panel tries to auto disarm, the zone will be bypassed.

Segments 1-8:
1 - Auto Disarming on Sunday.
2 - Auto Disarming on Monday.
3 - Auto Disarming on Tuesday.
4 - Auto Disarming on Wednesday.
5 - Auto Disarming on Thursday.
6 - Auto Disarming on Friday.
7 - Auto Disarming on Saturday.
8 - Reserved.

LOCATION 207 – SERIAL PORT SELECTOR (1 segment of feature selection data)
Location 206 enables the serial port operations. There is one segment
"**0**" = Disabled (Default) "**1**" = NX584 enabled "**2**" = Serial Printer Enabled.

LOCATION 208 – BAUD RATE TABLE (1 segment of numerical data)
The NX584 can operate on a number of different baud rates. Consult the home automation application information to determine the best baud rate for your application and program it in Location 208. The default is "2" – 9600 Baud or the serial printer baud rate.

0 = 2400 Baud (2.4K)	**2** = 9600 Baud (9.6K)	**4** = 38400 Baud (38.4K)
1 = 4800 Baud (4.8K)	**3** = 19200 Baud (19.2K)	**5-7** = Reserved

LOCATION 209 – PROGRAMMING THE NX-8E-CF HOME AUTOMATION PROTOCOL (1 segment of numerical data)
The NX-8E-CF home automation protocol can operate in one of two possible modes - binary or ASCII. Consult the home automation application information to determine the proper mode for your application and program it in Location 209. The default is "Off" – Binary.

Option 1	**LED 0ff** = Binary	**LED On** = ASCII
Options 2 - 8	Reserved	

LOCATION 210 – ENABLING THE NX-8E-CF TRANSITION-BASED BROADCASTS (2 segments of feature selection data)
The NX-8E-CF can be programmed to automatically send information to the home automation system whenever there has been a change in this information. This is referred to as 'transition-based broadcasting'. Which information packets use 'transition-based broadcasting' is dependent upon the application and the capabilities of the home automation system. Location 210 is used to enable and disable the appropriate transition based broadcasts. Consult the home automation application information and enable the appropriate transition based broadcasts in Location 210.

Segment 1:

DATA	ENABLES TRANSITION	DATA	ENABLES TRANSITION
1	Reserved	**6**	Zones Snapshot Message
2	Interface Configuration at power-up / program mode	**7**	Partition Status Message
3-4	Reserved	**8**	Partitions Snapshot Message
5	Zone Status Message		

Segment 2:

DATA	ENABLES TRANSITION	DATA	ENABLES TRANSITION
1	System Status Message	**4**	Keypad Message Received
2	X-10 Message Received	**5 - 8**	Reserved
3	Log Event Message		

LOCATION 211 - PROGRAMMING THE COMMAND/REQUEST ENABLES (4 segments of feature selection data)
The NX-8E-CF has the ability to perform a variety of commands asked of it by the home automation system. For example, it is possible to allow arming and disarming of the security system, programming of the security system, or bypassing of zones by the home automation system. Location 211 is used to select which commands, if any you wish the home automation system to have access. Consult the home automation application information and enable the appropriate commands for your application. ***CAUTION: IT IS IMPORTANT TO UNDERSTAND THE CAPABILITES OF THE HOME AUTOMATION SYSTEM TO AVOID COMPROMISING THE SECURITY OF YOUR SYSTEM WHEN PROGRAMMING THIS LOCATION***.

Segment 1:

DATA	SUPPORTED REQUEST / COMMAND
1	Reserved
2	Interface Configuration Request
3	Reserved
4	Zone Name Request
5	Zone Status Request
6	Zones Snapshot Request
7	Partition Status Request
8	Partitions Snapshot Request

Segment 2:

DATA	SUPPORTED REQUEST / COMMAND
1	System Status Request
2	Send X-10 Message
3	Log Event Request
4	Send Keypad Text Message
5	Keypad Terminal Mode Request
6 - 8	Reserved

Segment 3:

DATA	SUPPORTED REQUEST / COMMAND
1	Program Data Request
2	Program Data Command
3	User Information Request with PIN
4	User Information Request without PIN
5	Set User Code Command with PIN
6	Set User Code Command without PIN
7	Set User Authorization Command with PIN
8	Set User Authorization Command without PIN

Segment 4:

DATA	SUPPORTED REQUEST / COMMAND
1	Reserved
2	Reserved
3	Store Communication Event Command
4	Set Clock / Calendar Command
5	Primary Keypad Function with PIN
6	Primary Keypad Function without PIN
7	Secondary Keypad Function
8	Zone Bypass Toggle

LOCATION 212 - PROGRAMMING THE LCD KEYPAD ADDRESS (1 segment of numerical data)
Certain commands in the NX-8E-CF require it to know the location of at least 1 LCD keypad (if one exists in the system). If your system has an LCD keypad it is recommended that it be placed in partition 1 keypad 1. This will allow location 212 to be left at the factory default. If the LCD keypad is selected as something other than partition 1/ keypad 1 program the appropriate address in location 212. Select the address from the following chart.

KEYPAD	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
1	192	193	194	195	196	197	198	199
2	200	201	202	203	204	205	206	207
3	208	209	210	211	212	213	214	215
4	216	217	218	219	220	221	222	223
5	224	225	226	227	228	229	230	231
6	232	233	234	235	236	237	238	239
7	240	241	242	243	244	245	246	247
8	248	249	250	251	252	253	254	255

XIV. PROGRAMMING WORKSHEETS

(Factory defaults for segments are in ***bold italics*** text and "Quick Start" locations are identified with the ☞ symbol.)

LOC	PG	DESCRIPTION	DEFAULT	PROGRAMMING DATA
☞ 0	15	PHONE #1	***14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14***	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
☞ 1	15	PHONE #1, ACCOUNT CODE	***10 - 10 - 10 - 10 - 10 - 10***	_ _ _ _ _ _
☞ 2	15	PHONE #1, REPORTING FORMAT	***0***	_
☞ 3	15	PHONE #1, DIAL ATTEMPTS BACKUP CONTROL	***8*** ***0***	_ _
4	16	PHONE #1, SELECTING EVENTS TO REPORT TO PHONE #1		
		Segment #1 (Circle Numbers To Program)	Segment #2 (Circle Numbers To Program)	
		1 = Alarms and Restores ***2 = Open/Close*** ***3 = Bypass*** ***4 = Zone Trouble*** ***5 = Power Trouble (AC Failure or Low Battery)*** ***6 = Siren & Telephone Fault*** ***7 = Test Reports*** ***8 = Program / Log Full***	***1 = Tampers*** ***2 = Short Circuit & Ground Fault*** ***3 = Sensor Lost*** ***4 = Sensor Low Battery*** ***5 = Expander Trouble*** ***6 = Failure To Communicate*** ***7 = Zone Activity Monitor*** ***8 = Reserved***	
5	16	PHONE #1, SELECTING WHICH PARTITIONS REPORT TO PHONE #1		
		Segment #1 (Circle Numbers To Program)		
		1 = Partition #1 2 = Partition #2	3 = Partition #3 4 = Partition #4	5 = Partition #5 6 = Partition #6	7 = Partition #7 8 = Partition #8
☞ 6	16	PHONE #2	***14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14***	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
☞ 7	16	PHONE #2, ACCOUNT CODE	***10 - 10 - 10 - 10 - 10 - 10***	_ _ _ _ _ _
☞ 8	16	PHONE #2, REPORTING FORMAT	***0***	_
9	16	PHONE #2, DIAL ATTEMPTS BACKUP CONTROL	***8*** ***0***	_ _
10	17	PHONE #2, SELECTING EVENTS TO REPORT TO PHONE #2		
		Segment #1 (Circle Numbers To Program)	**Segment #2** (Circle Numbers To Program)	
		1 = Alarms and Restores 2 = Open/Close 3 = Bypass 4 = Zone Trouble 5 = Power Trouble (AC Failure or Low Battery) 6 = Siren & Telephone Fault 7 = Test Reports 8 = Program / Log Full	1 = Tampers 2 = Short Circuit & Ground Fault 3 = Sensor Lost 4 = Sensor Low Battery 5 = Expander Trouble 6 = Failure To Communicate 7 = Zone Activity Monitor 8 = Reserved	
11	17	PHONE #2, SELECTING WHICH PARTITIONS REPORT TO PHONE #2		
		Segment #1 (Circle Numbers To Program)		
		1 = Partition #1 2 = Partition #2	3 = Partition #3 4 = Partition #4	5 = Partition #5 6 = Partition #6	7 = Partition #7 8 = Partition #8
12	17	PHONE #3	***14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14-14***	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
13	17	PHONE #3, ACCOUNT CODE	***10 - 10 - 10 - 10 - 10 - 10***	_ _ _ _ _ _
14	17	PHONE #3, REPORTING FORMAT	***0***	_
15	17	PHONE #3, DIAL ATTEMPTS BACKUP CONTROL	***8*** ***0***	_ _
16	18	PHONE #3, SELECTING EVENTS TO REPORT TO PHONE #3		
		Segment #1 (Circle Numbers To Program)	**Segment #2** (Circle Numbers To Program)	
		1 = Alarms and Restores 2 = Open/Close 3 = Bypass 4 = Zone Trouble 5 = Power Trouble (AC Failure or Low Battery) 6 = Siren & Telephone Fault 7 = Test Reports 8 = Program / Log Full	1 = Tampers 2 = Short Circuit & Ground Fault 3 = Sensor Lost 4 = Sensor Low Battery 5 = Expander Trouble 6 = Failure To Communicate 7 = Zone Activity Monitor 8 = Reserved	
17	18	PHONE #3, SELECTING WHICH PARTITIONS REPORT TO PHONE #3		
		Segment #1 (Circle Numbers To Program)		
		1 = Partition #1 2 = Partition #2	3 = Partition #3 4 = Partition #4	5 = Partition #5 6 = Partition #6	7 = Partition #7 8 = Partition #8
18 - 22		RESERVED		

LOC	PG	DESCRIPTION	DEFAULT	PROGRAMMING DATA
☞ 23	18	PARTITION #1, FEATURE SELECTION		
		Segment #1		
		1 = Quick Arm 2 = Re-Exit 3 = Auto Bypass 4 = Silent Panic 5 = ***Audible Panic*** 6 = Auxiliary 1 7 = Auxiliary 2 8 = Multi Keypress Tamper		
		Segment #2		
		1 = LED extinguish enable 2 = Require user code for bypassing zones 3 = Bypass sounder alert 4 = ***AC power/low battery sounder alert*** 5 = Enables bypass toggle 6 = Enables silent auto arm 7 = Enables automatic instant 8 = Enables Instant Mode toggle		
		Segment #3		
		1 = Open/Close 2 = Bypass 3 = Restore 4 = Trouble 5 = Tamper 6 = Cancel 7 = Recent Closing 8 = Exit Error		
		Segment #4		
		1 = Late to Close / Early to Open 2 = Auto Arm in Stay Mode 3 = Reserved 4 = Disables door delay in Night Mode 5 = Reserved 6 = Reserved 7 = Reserved 8 = Reserved		
		Segment #5 RESERVED		
☞ 24	19	ENTRY/EXIT TIMERS		
		Segment #1 (Entry Time #1)	***30***	
		Segment #2 (Exit Time #1)	***60***	
		Segment #3 (Entry Time #2)	***30***	
		Segment #4 (Exit Time #2)	***60***	
		Segments #5 & #6	Reserved	
☞ 25	20	ZONES 1-8, ZONE TYPES	***3-5-6-6-6-6-6-6***	_ _ _ _ _ _ _ _
26	20	ZONES 1-8, PARTITION SELECTION (Segment 1=Zone 1 thru Segment 8=Zone 8)		

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 27	20	ZONES 9-16, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _
28	20	ZONES 9-16, PARTITION SELECTION (Segment 1=Zone 9 thru Segment 8=Zone 16)		

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 29	20	ZONES 17-24, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _
30	20	ZONES 17-24, PARTITION SELECTION (Segment 1=Zone 17 thru Segment 8=Zone 24)		

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 31	21	ZONES 25-32, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

LOC	PG	DESCRIPTION	DEFAULT	PROGRAMMING DATA
32	21	ZONES 25-32, PARTITION SELECTION (Segment 1=Zone 25 thru Segment 8=Zone 32)		

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 33	21	ZONES 33-40, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _
34	21	ZONES 33-40, PARTITION SELECTION (Segment 1=Zone 33 thru Segment 8=Zone 40)		

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 35	21	ZONES 41-48, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _
36	21	ZONES 41-48, PARTITION SELECTION (Segment 1=Zone 41 thru Segment 8=Zone 48)		

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 37 21 SIREN AND SYSTEM SUPERVISION

Segment #1 (Circle numbers to program)

1 = Siren sounds for telephone line cut while armed.	5 = Siren blast at closing kissoff.
2 = ***Siren sounds for telephone line cut while disarmed.***	6 = Siren sounds during a cross-zone verification time.
3 = Siren blast at arming.	7 = ***Siren sounds for a tamper.***
4 = Siren blast at exit delay expiration.	***8 =*** Siren blast one time for keyswitch arming, two times for disarming.

Segment #2 (Circle numbers to program)

1 = Convert siren driver to voltage out.	6 = ***Manual bell test performed during [✱]-[4]-[4] test function.***
2 = Siren sounds for expander trouble (required for U.L.).	7 = Manual communicator test performed during [✱]-[4]-[4] test function.
3 = Immediate Restore by zone.	8 = Box tamper enabled.
4 = Reserved.	
5 = Battery missing test performed every 12 seconds.	

Segment #3 (Circle numbers to program)

1 = Box Tamper report enabled.	5 = Siren supervision report enabled.
2 = AC Fail report enabled.	6 = Telephone Line Cut report enabled.
3 = Low Battery report enabled.	7 = Ground Fault Detection report enabled.
4 = Auxiliary power over current report enabled.	8 = Expander trouble report enabled.

Segment #4 (Circle numbers to program)

1 = Failure To Communicate report enabled.	5 = Reserved.
2 = Log Full report enabled.	6 = Sensor Low Battery report enabled.
3 = Autotest report enabled. (required for UL installations)	7 = Sensor Missing report enabled.
4 = Start and End Programming report enabled.	8 = Reserved.

☞ 37 21 Segment #5 (Circle numbers to program)

1 = Lost Clock service LED enable.	5 = Disables bypass reports for force armed zones
2 = Enables NX-870E siren output to activate for FIRE ONLY.	6 = Silent exit.
3 = Disable on-board eight zones.	7 = Clock uses internal crystal.
4 = Enables two trips on the same cross-zone to activate the alarm.	8 = Disable Temporal Siren on Fire **(Do not disable on UL listed systems)**

Segment #6

1 = Enable 2-wire Smoke Detector.	5 = Reserved
2 = Reserved.	6 = Disable Clean Me report.
3 = Enable Zone Activity in Hours (not Days)	7 = Reserved.
4 = Enable Daylight Savings Time (DST)	8 = Reserved.

Segment #7 - RESERVED

LOC	PG	DESCRIPTION	DEFAULT	DATA
☞ 38	22	SWINGER SHUTDOWN COUNT	***0***	_
☞ 39	22	KEYPAD SOUNDER CONTROL ***1 = Keypad sounds for Telephone Line Cut when in the Armed state.*** 2 = ***Keypad sounds for Telephone Line Cut when in the Disarmed state.*** 3 = Keypad sounds upon AC Power Failure. 4 = Keypad sounds upon Low Battery Detection. 5 = Keypad sounds during Cross Zone Trip Time. **6 = *Keypad sounds for Tamper Alarm.*** 7 = Reserved. 8 = Keypad sounds for expander trouble (required for UL).		
☞ 40	22	SYSTEM TIMERS		
		Segment #1 Dynamic Battery Test duration (0-255 minutes)	***0***	_
		Segment #2 AC Failure report delay (0-255 minutes)	***5***	_
		Segment #3 Power Up Delay (0-60 seconds)	***0***	_
		Segment #4 Siren Time (1-254 minutes)	***8***	_
		Segment #5 Telephone Line Cut delay (0-255 seconds)	***0***	_
		Segment #6 Cross Zone Time (0-255 minutes)	***5***	_
		Segment #7 Chime Time in 50 mS increments (0-255)	***3***	_
		Segment #8 Dialer delay (0-255 seconds)	***0***	_
		Segment #9 Fire Alarm Verification Time (120-255 sec.)	***0***	_
		Segment #10 Listen-In Time (0-255 seconds)	***0***	_
		Segment #11 Zone Monitor Timer (0-255 Days)		
		Segment #12 – 14 Reserved		
41	23	SPECIAL FEATURES 1 = Enables 6-digit code option. All arm/disarm/Go To Program codes require six digits 2 = Reserved. 3 = Enable Auto Cancel / Abort. 4 = Enable Walk-Test Mode. 5 = Reserved. 6 = Reserved. 7 = Reserved. 8 = Reserved.		
☞ 42	23	GO TO PROGRAM CODE	***9-7-1-3-0-0***	_ _ _ _ _ _
43	23	GO TO PROGRAM CODE PARTITION AND AUTHORIZATION Segment #1 (Circle numbers to program) 1 = Reserved. 2 = Enables "Go To Program Code" as an arm only code. 3 = Enables "Go To Program Code" as an arm only after closing. 4 = Enables "Go To Program Code" as a master arm/disarm code (can change user codes) 5 = Enables "Go To Program Code" as an arm/disarm code. 6 = Enables "Go To Program Code" to bypass zones. 7 = Enables "Go To Program Code" opening and closing reports. 8 = Reserved.		
		Segment #2 (Circle numbers to program) ***1 = Enables "Go To Program Code" for partition #1.*** ***2 = Enables "Go To Program Code" for partition #2.*** ***3 = Enables "Go To Program Code" for partition #3.*** ***4 = Enables "Go To Program Code" for partition #4.*** ***5 = Enables "Go To Program Code" for partition #5.*** ***6 = Enables "Go To Program Code" for partition #6.*** ***7 = Enables "Go To Program Code" for partition #7.*** ***8 = Enables "Go To Program Code" for partition #8.***		
☞ 44	23	DURESS CODE	***15-15-15-15-15-15***	_ _ _ _ _ _
45	23	AUXILIARY OUTPUTS 1-4 PARTITION SELECTION		

Segments	1	2	3	4
Partition #1	***1***	***1***	***1***	***1***
Partition #2	***2***	***2***	***2***	***2***
Partition #3	***3***	***3***	***3***	***3***
Partition #4	***4***	***4***	***4***	***4***
Partition #5	***5***	***5***	***5***	***5***
Partition #6	***6***	***6***	***6***	***6***
Partition #7	***7***	***7***	***7***	***7***
Partition #8	***8***	***8***	***8***	***8***

LOC	PG	DESCRIPTION	DEFAULT	DATA
46	23	AUXILIARY OUTPUTS 1-4 SPECIAL TIMING		

Segments	1	2	3	4
Auxiliary output timed in minutes.	1	1	1	1
Auxiliary output to latch.	2	2	2	2
Auxiliary output to stop timing upon user code entry.	***3***	***3***	***3***	***3***
Auxiliary output to activate only between closing and opening time.	4	4	4	4
Auxiliary output to activate only between opening and closing time.	5	5	5	5
Invert auxiliary output (0 volts going to 12 volts when activated).	6	6	6	6
Reserved	7	7	7	7
Reserved	8	8	8	8

LOC	PG	DESCRIPTION	DEFAULT	DATA
47	24	AUXILIARY OUTPUT #1, EVENT & TIME		
		Segment #1: Program the event number for output #1 here.	***0=Burglary alarm***	
		Segment #2: Program the timing for output #1 here.	***10 seconds***	
48	24	AUXILIARY OUTPUT #2, EVENT & TIME		
		Segment #1: Program the event number for output #2 here.	***1=Fire alarm***	
		Segment #2: Program the timing for output #2 here.	***10 seconds***	
49	24	AUXILIARY OUTPUT #3, EVENT & TIME		
		Segment #1: Program the event number for output #3 here.	***2= 24 Hour Alarm***	
		Segment #2: Program the timing for output #3 here.	***10 seconds***	
50	24	AUXILIARY OUTPUT #4, EVENT & TIME		
		Segment #1: Program the event number for output #4 here.	***21-Armed State***	
		Segment #2: Program the timing for output #4 here.	***0=Follow condition***	
☞ 51	24	AUTOTEST CONTROL		
		Segment #1: Program a "1" if the interval is hours, a "0" if in days. Add a A2" to suppress the daily test or a A3" to suppress the hourly test.	***1***	
		Segment #2: Program the autotest interval from 1-255 days or hours.	***24***	
		Segment #3: Program the autotest report in 24-hour time format.	***2***	
		Segment #4: Program the autotest report time, minutes after the hour.	***0***	
52	24	OPENING TIME		
		Segment #1: Program the hour of the opening time.	***8***	
		Segment #2: Program the minutes after the hour of the opening time.	***0***	
53	25	CLOSING TIME / AUTO ARMING TIME		
		Segment #1: Program the hour of the closing time / auto arming time.	***20***	
		Segment #2: Program the minutes after hour of closing / auto arming time.	***0***	

54	25	DAYS OF THE WEEK EACH PARTITION IS OPEN							
		Segments	1	2	3	4	5	6	7	8
		Sunday	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Monday	***2***	***2***	***2***	***2***	***2***	***2***	***2***	***2***
		Tuesday	***3***	***3***	***3***	***3***	***3***	***3***	***3***	***3***
		Wednesday	***4***	***4***	***4***	***4***	***4***	***4***	***4***	***4***
		Thursday	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***
		Friday	***6***	***6***	***6***	***6***	***6***	***6***	***6***	***6***
		Saturday	***7***	***7***	***7***	***7***	***7***	***7***	***7***	***7***
		Reserved	***8***	***8***	***8***	***8***	***8***	***8***	***8***	***8***
55	25	DAYS OF THE WEEK "AUTO ARMING" WILL OCCUR IN PARTITIONS 1-8								
		Segments	1	2	3	4	5	6	7	8
		Sunday	1	1	1	1	1	1	1	1
		Monday	2	2	2	2	2	2	2	2
		Tuesday	3	3	3	3	3	3	3	3
		Wednesday	4	4	4	4	4	4	4	4
		Thursday	5	5	5	5	5	5	5	5
		Friday	6	6	6	6	6	6	6	6
		Saturday	7	7	7	7	7	7	7	7
		Disable Retry	8	8	8	8	8	8	8	8

56-87	25	RESERVED	***0-0-0-0***	Reserved
88	25	PARTITION 1, ACCOUNT CODE	***10-10-10-10-10-10***	_ _ _ _ _
89	25	PARTITION 2, ACCOUNT CODE	***10-10-10-10-10-10***	_ _ _ _ _ _

LOC	PG	DESCRIPTION	DEFAULT	DATA
90	25	PARTITION 2, FEATURE AND REPORTING SELECTION		
		Segment #1		
		1 Quick Arm / 2 Re-Exit / 3 Auto Bypass / 4 Silent Panic / 5 Audible Panic / 6 Auxiliary 1 / 7 Auxiliary 2 / 8 Multi Keypress Tamper		
		Segment #2		
		1 LED extinguish enable / 2 Require user code for bypassing zones / 3 Bypass sounder alert / 4 AC power/low battery sounder alert / 5 Enables bypass toggle / 6 Enables silent auto arm / 7 Enables automatic instant / 8 Reserved		
		Segment #3		
		1 Open/Close / 2 Bypass / 3 Restore / 4 Trouble / 5 Tamper / 6 Cancel / 7 Recent Closing / 8 Exit Error		
		Segment #4		
		1 Late to Close / Early to Open 2-8 Reserved		
		Segment #5 RESERVED		
91	25	PARTITION 2 ENTRY/EXIT TIMERS		
		Segment #1 (Entry Time #1)	***0***	_
		Segment #2 (Exit Time #1)	***0***	_
		Segment #3 (Entry Time #2)	***0***	_
		Segment #4 (Exit Time #2)	***0***	_
		Segment #5 & #6 RESERVED		
92	26	PARTITION 3, ACCOUNT CODE	***10-10-10-10-10-10***	_ _ _ _ _ _
93	26	PARTITION 3, FEATURE AND REPORTING SELECTION		
		Segment #1		
		1 Quick Arm / 2 Re-Exit / 3 Auto Bypass / 4 Silent Panic / 5 Audible Panic / 6 Auxiliary 1 / 7 Auxiliary 2 / 8 Multi Keypress Tamper		
		Segment #2		
		1 LED extinguish enable / 2 Require user code for bypassing zones / 3 Bypass sounder alert / 4 AC power/low battery sounder alert / 5 Enables bypass toggle / 6 Enables silent auto arm / 7 Enables automatic instant / 8 Reserved		
		Segment #3		
		1 Open/Close / 2 Bypass / 3 Restore / 4 Trouble / 5 Tamper / 6 Cancel / 7 Recent Closing / 8 Exit Error		
		Segment #4		
		1 Late to Close / Early to Open 2-8 Reserved		
		Segment #5 RESERVED		
94	26	PARTITION 3 ENTRY/EXIT TIMERS		
		Segment #1 (Entry Time #1)	***0***	_
		Segment #2 (Exit Time #1)	***0***	_
		Segment #3 (Entry Time #2)	***0***	_
		Segment #4 (Exit Time #2)	***0***	_
		Segment #5 & #6 RESERVED		

LOC	PG	DESCRIPTION				DEFAULT	DATA
95	26	PARTITION 4, ACCOUNT CODE				***10-10-10-10-10-10***	_ _ _ _ _ _
96	26	PARTITION 4, FEATURE AND REPORTING SELECTION					
		Segment #1					
		1	Quick Arm	5	Audible Panic		
		2	Re-Exit	6	Auxiliary 1		
		3	Auto Bypass	7	Auxiliary 2		
		4	Silent Panic	8	Multi Keypress Tamper		
		Segment #2					
		1	LED extinguish enable	5	Enables bypass toggle		
		2	Require user code for bypassing zones	6	Enables silent auto arm		
		3	Bypass sounder alert	7	Enables automatic instant		
		4	AC power/low battery sounder alert	8	Reserved		
		Segment #3					
		1	Open/Close	5	Tamper		
		2	Bypass	6	Cancel		
		3	Restore	7	Recent Closing		
		4	Trouble	8	Exit Error		
		Segment #4					
		1	Late to Close / Early to Open				
		2-8	Reserved				
		Segment #5 RESERVED					
97	26	PARTITION 4, ENTRY/EXIT TIMERS					
		Segment #1 (Entry Time #1)				***0***	_
		Segment #2 (Exit Time #1)				***0***	_
		Segment #3 (Entry Time #2)				***0***	_
		Segment #4 (Exit Time #2)				***0***	_
		Segment #5 & #6 RESERVED					
98	26	PARTITION 5, ACCOUNT CODE				***10-10-10-10-10-10***	_ _ _ _ _ _
99	26	PARTITION 5, FEATURE AND REPORTING SELECTION					
		Segment #1					
		1	Quick Arm	5	Audible Panic		
		2	Re-Exit	6	Auxiliary 1		
		3	Auto Bypass	7	Auxiliary 2		
		4	Silent Panic	8	Multi Keypress Tamper		
		Segment #2					
		1	LED extinguish enable	5	Enables bypass toggle		
		2	Require user code for bypassing zones	6	Enables silent auto arm		
		3	Bypass sounder alert	7	Enables automatic instant		
		4	AC power/low battery sounder alert	8	Reserved		
		Segment #3					
		1	Open/Close	5	Tamper		
		2	Bypass	6	Cancel		
		3	Restore	7	Recent Closing		
		4	Trouble	8	Exit Error		
		Segment #4					
		1	Late to Close / Early to Open				
		2-8	Reserved				
		Segment #5 RESERVED					
100	26	PARTITION 5, ENTRY/EXIT TIMERS					
		Segment #1 (Entry Time #1)				***0***	_
		Segment #2 (Exit Time #1)				***0***	_
		Segment #3 (Entry Time #2)				***0***	_
		Segment #4 (Exit Time #2)				***0***	_
		Segment #5 & #6 RESERVED					
101	26	PARTITION 6, ACCOUNT CODE				***10-10-10-10-10-10***	_ _ _ _ _ _

LOC	PG	DESCRIPTION				DEFAULT	DATA
102	27	PARTITION 6, FEATURE AND REPORTING SELECTION					
		Segment #1					
		1	Quick Arm	5	Audible Panic		
		2	Re-Exit	6	Auxiliary 1		
		3	Auto Bypass	7	Auxiliary 2		
		4	Silent Panic	8	Multi Keypress Tamper		
		Segment #2					
		1	LED extinguish enable	5	Enables bypass toggle		
		2	Require user code for bypassing zones	6	Enables silent auto arm		
		3	Bypass sounder alert	7	Enables automatic instant		
		4	AC power/low battery sounder alert	8	Reserved		
		Segment #3					
		1	Open/Close	5	Tamper		
		2	Bypass	6	Cancel		
		3	Restore	7	Recent Closing		
		4	Trouble	8	Exit Error		
		Segment #4					
		1	Late to Close / Early to Open				
		2-8	Reserved				
		Segment #5 RESERVED					
103	27	PARTITION 6, ENTRY/EXIT TIMERS					
		Segment #1 (Entry Time #1)				***0***	_
		Segment #2 (Exit Time #1)				***0***	_
		Segment #3 (Entry Time #2)				***0***	_
		Segment #4 (Exit Time #2)				***0***	_
		Segment #5 & #6 RESERVED					
104	27	PARTITION 7, ACCOUNT CODE				***10-10-10-10-10-10***	_ _ _ _ _ _
105	27	PARTITION 7, FEATURE AND REPORTING SELECTION					
		Segment #1					
		1	Quick Arm	5	Audible Panic		
		2	Re-Exit	6	Auxiliary 1		
		3	Auto Bypass	7	Auxiliary 2		
		4	Silent Panic	8	Multi Keypress Tamper		
		Segment #2					
		1	LED extinguish enable	5	Enables bypass toggle		
		2	Require user code for bypassing zones	6	Enables silent auto arm		
		3	Bypass sounder alert	7	Enables automatic instant		
		4	AC power/low battery sounder alert	8	Reserved		
		Segment #3					
		1	Open/Close	5	Tamper		
		2	Bypass	6	Cancel		
		3	Restore	7	Recent Closing		
		4	Trouble	8	Exit Error		
		Segment #4					
		1	Late to Close / Early to Open				
		2-8	Reserved				
		Segment #5 RESERVED					
106	27	PARTITION 7, ENTRY/EXIT TIMERS					
		Segment #1 (Entry Time #1)				***0***	_
		Segment #2 (Exit Time #1)				***0***	_
		Segment #3 (Entry Time #2)				***0***	_
		Segment #4 (Exit Time #2)				***0***	_
		Segment #5 & #6 RESERVED					
107	27	PARTITION 8, ACCOUNT CODE				***10-10-10-10-10-10***	_ _ _ _ _ _

LOC	PG	DESCRIPTION	DEFAULT	DATA
108	27	PARTITION 8, FEATURE AND REPORTING SELECTION		

Segment #1

1	Quick Arm	5	Audible Panic
2	Re-Exit	6	Auxiliary 1
3	Auto Bypass	7	Auxiliary 2
4	Silent Panic	8	Multi Keypress Tamper

Segment #2

1	LED extinguish enable	5	Enables bypass toggle
2	Require user code for bypassing zones	6	Enables silent auto arm
3	Bypass sounder alert	7	Enables automatic instant
4	AC power/low battery sounder alert	8	Reserved

Segment #3

1	Open/Close	5	Tamper
2	Bypass	6	Cancel
3	Restore	7	Recent Closing
4	Trouble	8	Exit Error

Segment #4

1	Late to Close / Early to Open
2-8	Reserved

Segment #5 RESERVED

109	27	PARTITION 8, ENTRY/EXIT TIMERS		
		Segment #1 (Entry Time #1)	***0***	_
		Segment #2 (Exit Time #1)	***0***	_
		Segment #3 (Entry Time #2)	***0***	_
		Segment #4 (Exit Time #2)	***0***	_
		Segment #5 & #6 RESERVED		
110	28	ZONE TYPE 1 ALARM EVENT CODE	***8***	_
111	28	ZONE TYPE 1 CHARACTERISTIC SELECT		

Segment #1 (Circle numbers to program)

1	Fire (enable for fire zone).	5	Delay 1 zone (enable to follow Timer 1 Entry/Exit times).
2	24 Hour (enable for non-fire 24 hour zone).		Delay 2 zone (enable to follow Timer 2 Entry / Exit times).
		6	Interior (Enable for auto bypass or stay arming).
3	Keyswitch zone.		Local Only (enable if zone is not to be reported).
4	Follower (enable for burg zones that are instant during non-entry times).	7	
		8	

Segment #2 (Circle numbers to program)

1	***Keypad audible on alarm.***	***5***	***Bypassable.***
2	***Yelping siren on alarm.***	6	Group Shunt.
3	Temporal siren on alarm.	7	Force armable.
4	Chime.	8	Entry Guard.

Segment #3 (Circle numbers to program)

1	Sprinkler Supervisory	***5***	***Dialer Delay zone.***
2	Double End of Line Tamper zone.	***6***	***Swinger zone.***
3	***Trouble zone (Day zone).***	***7***	***Restore reporting.***
4	Cross Zone.	***8***	Reserved

Segment #4 (Circle numbers to program)

1	Zone Activity Monitor.	5	Reserved.
2	End of Line Resistor Defeat.	6	Reserved.
3	Delays alarm activation 60 seconds.	7	Reserved.
4	Zone acts as *request to exit* input.	8	Reserved.

Segment #5 - Reserved

THE DEFAULTS LISTED IN THE ODD NUMBERED LOCATIONS 112-169 BELOW REPRESENT THE THREE SEGMENTS OF EACH OF THOSE LOCATIONS. USE THE THREE SEGMENT CHARTS FROM LOCATION 111 TO UNDERSTAND THESE DEFAULTS.

LOC	PG	DESCRIPTION	DEFAULT	DATA
112	28	ZONE TYPE 2 ALARM EVENT CODE	*2*	__
113	28	ZONE TYPE 2 CHARACTERISTIC SELECT	*2-125-78-0-0*	__ __ __ __ __
114	28	ZONE TYPE 3 ALARM EVENT CODE	*7*	__
115	28	ZONE TYPE 3 CHARACTERISTIC SELECT	*5-1245-5678-0-0*	__ __ __ __ __
116	28	ZONE TYPE 4 ALARM EVENT CODE	*5*	__
117	29	ZONE TYPE 4 CHARACTERISTIC SELECT	*45-125-5678-0-0*	__ __ __ __ __
118	29	ZONE TYPE 5 ALARM EVENT CODE	*5*	__
119	29	ZONE TYPE 5 CHARACTERISTIC SELECT	*457-125-5678-0-0*	__ __ __ __ __
120	29	ZONE TYPE 6 ALARM EVENT CODE	*4*	__
121	29	ZONE TYPE 6 CHARACTERISTIC SELECT	*0-1245-5678-0-0*	__ __ __ __ __
122	29	ZONE TYPE 7 ALARM EVENT CODE	*0*	__
123	29	ZONE TYPE 7 CHARACTERISTIC SELECT	*2-0-78-0-0*	__ __ __ __ __
124	29	ZONE TYPE 8 ALARM EVENT CODE	*1*	__
125	29	ZONE TYPE 8 CHARACTERISTIC SELECT	*1-13-378-0-0*	__ __ __ __ __
126	29	ZONE TYPE 9 ALARM EVENT CODE	*7*	__
127	29	ZONE TYPE 9 CHARACTERISTIC SELECT	*6-1245-5678-0-0*	__ __ __ __ __
128	29	ZONE TYPE 10 ALARM EVENT CODE	*2*	__
129	29	ZONE TYPE 10 CHARACTERISTIC SELECT	*24-5-78-0-0*	__ __ __ __ __
130	29	ZONE TYPE 11 ALARM EVENT CODE	*3*	__
131	29	ZONE TYPE 11 CHARACTERISTIC SELECT	*3-0-0-0-0*	__ __ __ __ __
132	29	ZONE TYPE 12 ALARM EVENT CODE	*5*	__
133	29	ZONE TYPE 12 CHARACTERISTIC SELECT	*457-125-45678-0-0*	__ __ __ __ __
134	29	ZONE TYPE 13 ALARM EVENT CODE	*4*	__
135	29	ZONE TYPE 13 CHARACTERISTIC SELECT	*0-12458-5678-0-0*	__ __ __ __ __
136	29	ZONE TYPE 14 ALARM EVENT CODE	*7*	__
137	30	ZONE TYPE 14 CHARACTERISTIC SELECT	*5-12456-5678-0-0*	__ __ __ __ __
138	30	ZONE TYPE 15 ALARM EVENT CODE	*5*	__
139	30	ZONE TYPE 15 CHARACTERISTIC SELECT	*457-1256-5678-0-0*	__ __ __ __ __
140	30	ZONE TYPE 16 ALARM EVENT CODE	*Not Used*	__
141	30	ZONE TYPE 16 CHARACTERISTIC SELECT	*2-15-17*	__ __ __ __ __
142	30	ZONE TYPE 17 ALARM EVENT CODE	*7*	__
143	30	ZONE TYPE 17 CHARACTERISTIC SELECT	*5-1245-25678-0-0*	__ __ __ __ __
144	30	ZONE TYPE 18 ALARM EVENT CODE	*5*	__
145	30	ZONE TYPE 18 CHARACTERISTIC SELECT	*457-125-25678-0-0*	__ __ __ __ __
146	30	ZONE TYPE 19 ALARM EVENT CODE	*4*	__
147	30	ZONE TYPE 19 CHARACTERISTIC SELECT	*0-1245-25678-0-0*	__ __ __ __ __
148	30	ZONE TYPE 20 ALARM EVENT CODE	*7*	__
149	30	ZONE TYPE 20 CHARACTERISTIC SELECT	*6-1245-25678-0-0*	__ __ __ __ __
150	30	ZONE TYPE 21 ALARM EVENT CODE	*15*	__
151	30	ZONE TYPE 21 CHARACTERISTIC SELECT	*24-15-78*	__ __ __ __ __
152	30	ZONE TYPE 22 ALARM EVENT CODE	*20*	__
153	30	ZONE TYPE 22 CHARACTERISTIC SELECT	*24-15-78*	__ __ __ __ __
154	30	ZONE TYPE 23 ALARM EVENT CODE	*21*	__
155	30	ZONE TYPE 23 CHARACTERISTIC SELECT	*24-15-78*	__ __ __ __ __
156	31	ZONE TYPE 24 ALARM EVENT CODE	*22*	__
157	31	ZONE TYPE 24 CHARACTERISTIC SELECT	*1-13-378*	__ __ __ __ __
158	31	ZONE TYPE 25 ALARM EVENT CODE	*14*	__
159	31	ZONE TYPE 25 CHARACTERISTIC SELECT	*248-45-0-0-0*	__ __ __ __ __
160	31	ZONE TYPE 26 ALARM EVENT CODE	*5*	__
161	31	ZONE TYPE 26 CHARACTERISTIC SELECT	*467-125-5678-0-0*	__ __ __ __ __
162	31	ZONE TYPE 27 ALARM EVENT CODE	*5*	__
163	31	ZONE TYPE 27 CHARACTERISTIC SELECT	*457-1257-5678-0-0*	__ __ __ __ __
164	31	ZONE TYPE 28 ALARM EVENT CODE	*7*	__
165	31	ZONE TYPE 28 CHARACTERISTIC SELECT	*6-12457-5678-0-0*	__ __ __ __ __
166	31	ZONE TYPE 29 ALARM EVENT CODE	*5*	__
167	31	ZONE TYPE 29 CHARACTERISTIC SELECT	*457-125-5678-1-0*	__ __ __ __ __
168	31	ZONE TYPE 30 ALARM EVENT CODE	*7*	__
169	31	ZONE TYPE 30 CHARACTERISTIC SELECT	*5-1245-5678-1-0*	__ __ __ __ __

LOC	PG	DESCRIPTION	DEFAULT	DATA
☞ 170	31	ZONES 49-56, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

171	31	ZONES 49-56, PARTITION SELECTION (Segment 1=Zone 49 thru Segment 8=Zone 56)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 172	31	ZONES 57-64, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

173	32	ZONES 57-64, PARTITION SELECTION (Segment 1=Zone 57 thru Segment 8=Zone 64)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 174	32	ZONES 65-72, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

175	32	ZONES 65-72, PARTITION SELECTION (Segment 1=Zone 65 thru Segment 8=Zone 72)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 176	32	ZONES 73-80, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

177	32	ZONES 73-80, PARTITION SELECTION (Segment 1=Zone 73 thru Segment 8=Zone 80)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

LOC	PG	DESCRIPTION	DEFAULT	DATA
☞ 178	32	ZONES 81-88, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

179	32	ZONES 81-88, PARTITION SELECTION (Segment 1=Zone 81 thru Segment 8=Zone 88)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 180	32	ZONES 89-96, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

181	32	ZONES 89-96, PARTITION SELECTION (Segment 1=Zone 89 thru Segment 8=Zone 96)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 182	32	ZONES 97-104, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

183	33	ZONES 97-104, PARTITION SELECTION (Segment 1=Zone 97 thru Segment 8=Zone 104)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 184	33	ZONES 105-112, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

185	33	ZONES 105-112, PARTITION SELECTION (Segment 1=Zone 105 thru Segment 8=Zone 112)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

LOC	PG	DESCRIPTION	DEFAULT	DATA
☞ 186	33	ZONES 113-120, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

187 — ZONES 113-120, PARTITION SELECTION (Segment 1=Zone 113 thru Segment 8=Zone 120)

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 188	33	ZONES 121-128, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

189 — ZONES 121-128, PARTITION SELECTION (Segment 1=Zone 121 thru Segment 8=Zone 128)

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 190	33	ZONES 129-136, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

191 — ZONES 129-136, PARTITION SELECTION (Segment 1=Zone 129 thru Segment 8=Zone 136)

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

☞ 192	33	ZONES 137-144, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

193 — ZONES 137-144, PARTITION SELECTION (Segment 1=Zone 137 thru Segment 8=Zone 144)

Segments	1	2	3	4	5	6	7	8
Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
Partition #2	2	2	2	2	2	2	2	2
Partition #3	3	3	3	3	3	3	3	3
Partition #4	4	4	4	4	4	4	4	4
Partition #5	5	5	5	5	5	5	5	5
Partition #6	6	6	6	6	6	6	6	6
Partition #7	7	7	7	7	7	7	7	7
Partition #8	8	8	8	8	8	8	8	8

LOC	PG	DESCRIPTION	DEFAULT	DATA
☞ 194	34	ZONES 145-152, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

195	34	ZONES 145-152, PARTITION SELECTION (Segment 1=Zone 145 thru Segment 8=Zone 152)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 196	34	ZONES 153-160, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

197	34	ZONES 153-160, PARTITION SELECTION (Segment 1=Zone 153 thru Segment 8=Zone 160)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 198	34	ZONES 161-168, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

199	34	ZONES 161-168, PARTITION SELECTION (Segment 1=Zone 161 thru Segment 8=Zone 168)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 200	34	ZONES 169-176, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

201	34	ZONES 169-176, PARTITION SELECTION (Segment 1=Zone 169 thru Segment 8=Zone 176)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

LOC	PG	DESCRIPTION	DEFAULT	DATA
☞ 202	34	ZONES 177-184, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

203	35	ZONES 177-184, PARTITION SELECTION (Segment 1=Zone 177 thru Segment 8=Zone 184)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

☞ 204	35	ZONES 185-192, ZONE TYPES	***6-6-6-6-6-6-6-6***	_ _ _ _ _ _ _ _

205	35	ZONES 185-192, PARTITION SELECTION (Segment 1=Zone 185 thru Segment 8=Zone 192)								
		Segments	1	2	3	4	5	6	7	8
		Partition #1	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***
		Partition #2	2	2	2	2	2	2	2	2
		Partition #3	3	3	3	3	3	3	3	3
		Partition #4	4	4	4	4	4	4	4	4
		Partition #5	5	5	5	5	5	5	5	5
		Partition #6	6	6	6	6	6	6	6	6
		Partition #7	7	7	7	7	7	7	7	7
		Partition #8	8	8	8	8	8	8	8	8

206	35	DAYS OF THE WEEK "AUTO DISARMING" WILL OCCUR IN PARTITIONS 1-8								
		Segments	1	2	3	4	5	6	7	8
		Sunday	1	1	1	1	1	1	1	1
		Monday	2	2	2	2	2	2	2	2
		Tuesday	3	3	3	3	3	3	3	3
		Wednesday	4	4	4	4	4	4	4	4
		Thursday	5	5	5	5	5	5	5	5
		Friday	6	6	6	6	6	6	6	6
		Saturday	7	7	7	7	7	7	7	7
		Reserved	8	8	8	8	8	8	8	8

207	35	SERIAL PORT ENABLE ***0 = Disabled*** 1 = Home Automation Protocol Enabled 2 = Serial Printer Mode	***0***	_
208	35	SERIAL PORT BAUD RATE 0 = 2400 (2.4K) 3 = 19200 (19.2K) 1 = 4800 (4.8K) 4 = 38400 (38.4K) ***2 = 9600 (9.6K)*** 5-7 = Reserved	***2***	
209	35	HOME AUTOMATION PROTOCOL ***LED Off = Binary*** LED On = ASCII	***Off***	

210	35	NX8E TRANSITION-BASED BROADCASTS	
		Segment #1	Segment #2
		1 = Reserved ***2 = Interface Configuration*** 3-4 = Reserved 5 = Zone Status Message 6 = Zones Snapshot Message ***7 = Partition Status Message*** 8 = Partitions Snapshot Message	***1 = System Status Message*** ***2 = X-10 Message Received*** 3 = Log Event Message 4 = Keypad Message Received 5 –8 = Reserved

<table>
<tr><th>LOC</th><th>PG</th><th>DESCRIPTION</th><th>DEFAULT</th><th>DATA</th></tr>
<tr><td>211</td><td>36</td><td colspan="3">NX-584 COMMAND/REQUEST ENABLE
<table>
<tr><td>Segment #1</td><td>Segment #2</td></tr>
<tr><td>1 = Reserved
2 = Interface Configuration Request
3 = Reserved
4 = Zone Name Request
5 = Zone Status Request
6 = Zones Snapshot Request
7 = Partition Status Request
8 = Partitions Snapshot Request</td><td>1 = System Status Request
2 = Send X-10 Message
3 = Log Event Request
4 = Send Keypad Text Message
5 = Keypad Terminal Mode Request
6-8 = Reserved</td></tr>
<tr><td>Segment #3</td><td>Segment #4</td></tr>
<tr><td>1 = Program Data Request
2 = Program Data Command
3 = User Information Request with PIN
4 = User Information Request without PIN
5 = Set User Code Command with PIN
6 = Set User Code Command without PIN
7 = Set User Authorization Comm with PIN
8 = Set User Authorization Comm without PIN</td><td>1-2 = Reserved
3 = Store Communication Event Command
4 = Set Clock / Calendar Command
5 = Primary Keypad Function with PIN
6 = Primary Keypad Function without PIN
7 = Secondary Keypad Function
8 = Zone Bypass Toggle</td></tr>
</table></td></tr>
<tr><td>212</td><td>36</td><td colspan="3">LCD KEYPAD ADDRESS FOR NX-584 192
<table>
<tr><th>KP</th><th>PART 1</th><th>PART 2</th><th>PART 3</th><th>PART 4</th><th>PART 5</th><th>PART 6</th><th>PART 7</th><th>PART 8</th></tr>
<tr><td>1</td><td>192</td><td>193</td><td>194</td><td>195</td><td>196</td><td>197</td><td>198</td><td>199</td></tr>
<tr><td>2</td><td>200</td><td>201</td><td>202</td><td>203</td><td>204</td><td>205</td><td>206</td><td>207</td></tr>
<tr><td>3</td><td>208</td><td>209</td><td>210</td><td>211</td><td>212</td><td>213</td><td>214</td><td>215</td></tr>
<tr><td>4</td><td>216</td><td>217</td><td>218</td><td>219</td><td>220</td><td>221</td><td>222</td><td>223</td></tr>
<tr><td>5</td><td>224</td><td>225</td><td>226</td><td>227</td><td>228</td><td>229</td><td>230</td><td>231</td></tr>
<tr><td>6</td><td>232</td><td>233</td><td>234</td><td>235</td><td>236</td><td>237</td><td>238</td><td>239</td></tr>
<tr><td>7</td><td>240</td><td>241</td><td>242</td><td>243</td><td>244</td><td>245</td><td>246</td><td>247</td></tr>
<tr><td>8</td><td>248</td><td>249</td><td>250</td><td>251</td><td>252</td><td>253</td><td>254</td><td>255</td></tr>
</table></td></tr>
<tr><td>213</td><td></td><td colspan="3">RESERVED</td></tr>
</table>

ZONE WORKSHEET

1		49		97		145	
2		50		98		146	
3		51		99		147	
4		52		100		148	
5		53		101		149	
6		54		102		150	
7		55		103		151	
8		56		104		152	
9		57		105		153	
10		58		106		154	
11		59		107		155	
12		60		108		156	
13		61		109		157	
14		62		110		158	
15		63		111		159	
16		64		112		160	
17		65		113		161	
18		66		114		162	
19		67		115		163	
20		68		116		164	
21		69		117		165	
22		70		118		166	
23		71		119		167	
24		72		120		168	
25		73		121		169	
26		74		122		170	
27		75		123		171	
28		76		124		172	
29		77		125		173	
30		78		126		174	
31		79		127		175	
32		80		128		176	
33		81		129		177	
34		82		130		178	
35		83		131		179	
36		84		132		180	
37		85		133		181	
38		86		134		182	
39		87		135		183	
40		88		136		184	
41		89		137		185	
42		90		138		186	
43		91		139		187	
44		92		140		188	
45		93		141		189	
46		94		142		190	
47		95		143		191	
48		96		144		192	

XV. APPENDIX 1

REPORTING FIXED CODES IN CONTACT ID AND SIA

The table lists the event codes sent for the following reports (if enabled) when using CONTACT ID or SIA formats.

REPORT	CONTACT ID	SIA
MANUAL TEST	601	RX
AUTOTEST	602	RP
AUTOTEST – OFF NORMAL	608	RY
OPEN (user number)	401	OP
CLOSE (user number)	401	CL
CANCEL (user number)	406	OC
START PROGRAM	627	LB
END PROGRAM	628	LX
GROUND FAULT	310	GF
GROUND FAULT RESTORE	310	GK
RECENT CLOSE (user number)	401	CR
EXIT ERROR (user number)	457	EE
EVENT LOG FULL	605	JL
FAIL TO COMMUNICATE	354	RT
EXPANDER TROUBLE (device number)	333	ET
EXPANDER RESTORE (device number)	333	ER
TELEPHONE FAULT	351	LT
TELEPHONE RESTORE	351	LR
SIREN TAMPER (device number)	321	YA
SIREN RESTORE (device number)	321	YH
AUX POWER OVER CURRENT (device number)	312	YP
AUX POWER RESTORE (device number)	312	YQ
LOW BATTERY (device number)	309	YT
LOW BATTERY RESTORE (device number)	309	YR
AC FAIL (device number)	301	AT
AC RESTORE (device number)	301	AR
BOX TAMPER (device number)	137	TA
BOX TAMPER RESTORE (device number)	137	TR
KEYPAD TAMPER	137	TA
KEYPAD PANIC (audible)	120	PA
KEYPAD PANIC (silent)	121	HA
DURESS	121	HA
KEYPAD AUXILIARY 1	110	FA
KEYPAD AUXILIARY 2	100	MA
RF SENSOR LOST (zone number)	381	*T
RF SENSOR RESTORE (zone number)	381	*R
SENSOR LOW BATTERY (zone number)	384	XT
SENSOR BATTERY RESTORE (zone number)	384	XR
ZONE SPRINKLER SUPERVISORY	200	SS
ZONE SPRINKLER SUPERVISORY RESTORE	200	SR
ZONE TROUBLE (zone number)	380	*T
ZONE TROUBLE RESTORE (zone number)	380	*R
ZONE TAMPER (zone number)	137	TA
ZONE TAMPER RESTORE (zone number)	137	TR
ZONE BYPASS (zone number)	570	*B
BYPASS RESTORE (zone number)	570	*U

THE NUMBER IN PARENTHESES FOLLOWING THE EVENT IS THE NUMBER THAT WILL BE REPORTED AS THE ZONE NUMBER. IF THERE ARE NO PARENTHESES, THE ZONE WILL BE A0". SEE PAGE 57 FOR THE DEVICE NUMBERS.

*** The character transmitted in this slot will be the first character from the event code of the zone that is bypassed or in trouble. (See locations 110 - 141)**

XVI. APPENDIX 2

REPORTING ZONE CODES IN SIA OR CONTACT ID

The NX-8E-CF has the ability to report SIA level 1 transmissions to either or both phone numbers. Each report in SIA consists of an Event Code and a Zone or User ID. The Zone ID will be the zone number that is in alarm. The event code will come from the chart below and be programmed in the zone type event code.

Programmed Event Code	SIA Code	Description
0	HA	Holdup Alarm
1	FA	Fire Alarm
2	PA	Panic alarm
3	BA	Burglary Alarm
4	BA	Burglary Alarm
5	BA	Burglary Alarm
6	UA	Untyped Alarm
7	BA	Burglary Alarm
8	BA	Burglary Alarm
9	UA	Untyped Alarm
10	HA	Holdup Alarm
11	MA	Medical Alarm
12	PA	Panic alarm
13	TA	Tamper Alarm
14	RP	Periodic Test
15	GA	Gas Alarm
16	KA	Heat Alarm
17	WA	Water Alarm
18	QA	Emergency Alarm
19	SA	Sprinkler Alarm
20	ZA	Freeze Alarm
21	KH	High Temp Alarm
22	FA	Manual Fire Alarm
23	AT / AR	AC Fail / AC Restore
24	YT / YR	Low Battery / Restore
25	UT / UR	System Trouble / Restore
26	ET / ER	Expander Trouble / Restore

XVII. APPENDIX 3

REPORTING ZONE CODES IN CONTACT ID

The NX-8E-CF has the ability to report Ademco Contact ID transmissions. Each report in Contact ID consists of an Event Code and a Zone ID. The zone ID is the zone that created the alarm. The event code will come from the chart below and be programmed in the zone type event code.

Programmed Event Code	Contact ID Code	Description
0	122	Silent Panic
1	110	Fire Alarm
2	120	Panic alarm
3	130	Burglary Alarm
4	131	Perimeter Alarm
5	132	Interior Alarm
6	133	24 Hour Burglary
7	134	Entry Alarm
8	135	Day/Night Alarm
9	150	Non Burglary 24 Hour
10	121	Duress Alarm
11	100	Medical Alarm
12	123	Audible Panic Alarm
13	137	Tamper Alarm
14	602	Periodic Test
15	151	Gas Detected
16	158	High Temp
17	154	Water Leakage
18	140	General Alarm
19	140	General Alarm
20	159	Low Temp
21	158	High Temp Alarm
22	115	Manual Fire Alarm
23	301	AC Fail / AC Restore
24	302	Low Battery / Restore
25	300	System Trouble / Restore
26	330	Expander Trouble / Restore

XVIII. APPENDIX 4

EXPANDER NUMBERS FOR REPORTING EXPANDER TROUBLE

The tables below list the device numbers that will be reported for trouble conditions.

Device	Device # reported
NX-8E-CF Control Panel	0
NX-534E Two Way Listen-In	64
NX-540E "Operator"	40
NX-591E Cellemetry Interface	76
NX-870E Fire Supervision	9

See page 54 for possible report codes.

KEYPADS

KEYPAD	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
1	192	193	194	195	196	197	198	199
2	200	201	202	203	204	205	206	207
3	208	209	210	211	212	213	214	215
4	216	217	218	219	220	221	222	223
5	224	225	226	227	228	229	230	231
6	232	233	234	235	236	237	238	239
7	240	241	242	243	244	245	246	247
8	248	249	250	251	252	253	254	255

HARDWIRE EXPANDER (NX-216E)

Starting zone number	Expander # reported	Starting zone number	Expander # reported
Zone 09 (All switches off)	22	Zone 97 (Switches 3 & 4 on)	100
Zone 09 (Switch 1 on)	23	Zone 105 (Switches 1, 3 & 4 on)	101
Zone 17 (Switch 2 on)	16	Zone 113 (Switches 2, 3 & 4 on)	102
Zone 25 (Switches 1 & 2 on)	17	Zone 121 (Switches 1, 2, 3 & 4 on)	103
Zone 33 (Switch 3 on)	18	Zone 129 (Switch 5 on)	104
Zone 41 (Switches 1 & 3 on)	19	Zone 137 (Switches 1 & 5 on)	105
Zone 49 (Switches 2 & 3 on)	20	Zone 145 (Switches 2 & 5 on)	106
Zone 57 (Switches 1, 2 & 3 on)	21	Zone 153 (Switches 1, 2 & 5 on)	107
Zone 65 (Switch 4 on)	96	Zone 161 (Switches 3 & 5 on)	108
Zone 73 (Switches 1 & 4 on)	97	Zone 169 (Switches 1, 3 & 5 on)	109
Zone 81 (Switches 2 & 4 on)	98	Zone 177 (Switches 2, 3 & 5 on)	110
Zone 89 (Switches 1, 2 & 4 on)	99	Zone 185 (Switches 1, 2, 3 & 5 on)	111

REMOTE POWER SUPPLY (NX-320E)

Switch Setting	Address
All switches off	84
Switch 1 on	85
Switch 2 on	86
Switch 1 & 2 on	87
Switch 3 on	88
Switch 1 & 3 on	89
Switch 2 & 3 on	90
Switches 1, 2, & 3 on	91

WIRELESS RECEIVER (NX-448E)

Switch Setting	Expander # reported
All switches off	35
Switch 1 on	36
Switch 2 on	37
Switches 1 & 2 on	38
Switch 3 on	39
Switches 1 & 3 on	32
Switches 2 & 3 on	33
Switch 1, 2 & 3 on	34

OUTPUT MODULE (NX-508E)

Switch Setting	Address	Switch Setting	Address
Switch 1 & 2 on	24	Switch 1,2,&3 on	28
Switch 3 on	25	All switches off	29
Switch 1 & 3 on	26	Switch 1 on	30
Switch 2 & 3 on	27	Switch 2 on	31

XIX. TELEPHONE COMPANY INTERFACE INFORMATION

TELEPHONE CONNECTION REQUIREMENTS

Except for telephone company provided ringers, all connections to the telephone network shall be made through standard plugs and standard telephone company provided jacks or equivalent in such a manner as to allow for immediate disconnection of the terminal equipment. Standard jacks shall be so arranged that if the plug connected thereto is withdrawn, no interference to the operation of the equipment at the customer's premises, which remains connected to the telephone network, shall occur by reason of such withdrawal.

INCIDENCE OF HARM

Should terminal equipment or protective circuitry cause harm to the telephone network, the telephone company shall, where practical, notify the customer that temporary discontinuance of service may be required. However, where prior notice is not practical, the telephone company may temporarily discontinue service if such action is deemed reasonable in the circumstances. In the case of such temporary discontinuance, the telephone company shall promptly notify the customer who will be given the opportunity to correct the situation. The customer also has the right to bring a complaint to the FCC if he feels the disconnection is not warranted.

CHANGES IN TELEPHONE COMPANY EQUIPMENT OR FACILITIES

The telephone company may make changes in its communications facilities, equipment, operations, or procedures where such action is reasonably required and proper in its business. Should any such change render the customers terminal equipment incompatible with the telephone company facilities, the customer shall be given adequate notice to make modifications to maintain uninterrupted service.

GENERAL

The FCC prohibits customer-provided terminal equipment to be connected to party lines.

IMPORTANCE OF THE RINGER EQUIVALENCE NUMBER

The Ringer Equivalence Number (REN) of this device is 0.1B. This number is a representation of the electrical load that it applies to your telephone line.

MALFUNCTION OF THE EQUIPMENT

In the event that the device should fail to operate properly, the customer shall disconnect the equipment from the telephone line to determine if it is the customers' equipment that is not functioning properly. If the problem is with the device, the customer shall discontinue use until it is repaired.

EQUIPMENT INFORMATION

MANUFACTURER OF CONNECTING EQUIPMENT: **CADDX CONTROLS, INC.**
FCC REGISTRATION NUMBER: GCQUSA-31771-AL-T, RINGER EQUIVALENCE: 0.1 B

INDUSTRY CANADA INFORMATION

NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions might not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alternations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

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

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

The Ringer Equivalence Number (REN) of this device is 0.1B. This number is a representation of the electrical load that it applies to your telephone line. ***NOTICE***: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

XX. NOTICES

(Applies to products which have the CE mark attached)

DECLARATION OF CONFORMITY

Manufacturer's Name: Caddx Controls
Manufacturer's Address: 1420 North Main Street
Gladewater Texas 75647

EU Representative: Interlogix Europe

Product Identification

Product:	**NetworX**
Model Numbers:	**NX-8E-CF**
Brand:	**CADDX**

R&TTE Directive

See EMC and LVD tests below

EMC Directive

EN50081-1
EN50130-4
EN55022
EN60950
EN61000-3-2
EN61000-3-3

LVD Directive

EN 60950: 1999-4 3rd edition

Means of Conformity

We declare under our sole responsibility that this product is in conformity with Directive 1999/5/EC (R&TTE); Directive 73/23/EEC (LVD); and Directive 89/336/EEC (EMC) and based on test results using (non)-harmonized standards in accordance with the Directives mentioned.

Additional Tests

This equipment has been tested and found to comply with the following standards (which are no longer required for compliance).

Network Compatibility Declaration

We declare under our sole responsibility that this product is designed to work with the networks in the countries marked with a check (✓) and may have interworking problems with the countries that are not checked. Due to the inherent differences in the individual PSTNs, certain software settings may need to be adjusted on a country-to-country basis. If it is desired to use this equipment on a network other than the one on which it was originally installed, you should contact your equipment supplier.

(✓) Austria	(_) Liechtenstein
(✓) Belgium	(✓) Luxembourg
(✓) Denmark	(✓) Netherlands
(✓) Finland	(✓) Norway
(✓) France	(✓) Poland
(✓) Germany	(✓) Portugal
(✓) Greece	(✓) Spain
(✓) Iceland	(✓) Sweden
(✓) Ireland	(✓) Switzerland
(✓) Italy	(✓) United Kingdom

Telecom Approval Notice

This equipment has been approved in accordance with the Council Decision 98/482/EC for pan-European, single terminal connection to the public switched telephone network (PSTN). However, due to the differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, you should contact your equipment supplier in the first instance.

Electrical Requirements

This device automatically adjusts to voltages within the range of **230 V 50/60 Hz.**
Fuse: **Type T 200mA 250 VAC**

XXI. SPECIFICATIONS

OPERATING POWER	**16.5 VAC, 50 VA Transformer**
AUXILIARY POWER	
w/ 50 VA Transformer	**12 VDC Special Applications 1.2 AMPS**
w/NX-320E Power Supply	**12 VDC Special Applications 2 AMPS + Control Panel Power**
LOOP RESISTANCE	
Standard Loop	**300 Ohms Maximum**
2-Wire Smokes	**30 Ohms Maximum**
BUILT-IN SIREN DRIVER	**2-tone (Temporal and Yelp)**
LOOP RESPONSE	**Selectable 50mS or 500mS**
OPERATING TEMPERATURE	**32 to 120 degrees F**
NX148E-CF LCD KEYPAD	
Current Draw	**110 mA max.**
w/o Sounder	**75 mA**
Dimensions	**6.4" Wide 5.3" High 1.0" Deep**
METAL ENCLOSURE DIMENSION	**15.50" Wide 18.50" High 4.50" Deep**
SHIPPING WEIGHT	**20 lbs. approx.**

Main	800-727-2339	Technical Support	888-437-3287
Outside the US	903-845-6941	Sales & Literature	800-547-2556
Main Fax	903-845-6811	Web:	www.gesecurity.com