NX507-E RELAY EXPANDER
NX508-E OUTPUT EXPANDER

Installation Manual

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![Caddx logo]

GENERAL DESCRIPTION

The NetworX NX507-E and NX508-E are auxiliary modules used to expand the capabilities of the NetworX control panels. While each unit has some unique features described in this section and also in the terminal descriptions, the basic installation and programming instructions are applicable to both modules.

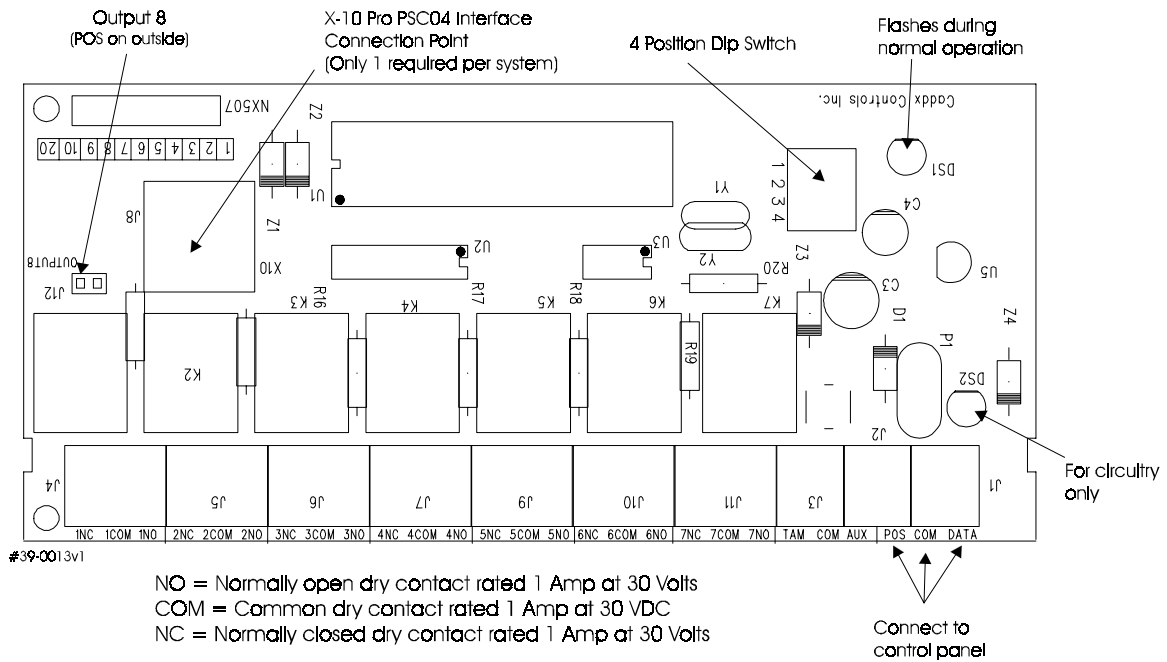| *NX507-E SEVEN RELAY EXPANDER* |
| --- |
| • Microprocessor controlled 7-relay module
• Designed with 7 separate normally open and normally closed relay contacts for a variety of applications, including access control, home control/automation, wireless interfaces, and security functions. **Note**: *Access control and home automation have not been verified by UL testing.*
• Includes 1 low current trigger output (output 8)
• Up to 8 modules can be connected to the Networx control panel
• Can be programmed to activate for an event in any or all partitions
• Each relay can be programmed to follow up to 8 different schedules to either activate the relay during the "on" time, or used in conjunction with another programming option to create time zones
• Has an optional tamper switch and auxiliary power terminal (see terminal descriptions) making it ideal for use in a remote location |

NX508-E EIGHT OUTPUT EXPANDER
• Microprocessor controlled 8-output module • Equipped with 8 low current trigger outputs (see terminal drawing) • Up to 8 modules can be added for a total output count of 64 • Each output can be programmed to follow up to 8 different schedules to either activate the output during the "on" time, or used in conjunction with another programming option to create time zones • Has an optional tamper switch and auxiliary power terminal (see terminal descriptions) making it ideal for use in a remote location • Has a built-in parallel interface for local printouts of all communicator activity

WIRING INFORMATION

NX507-E (ALL RELAYS ACTIVE)	NX507-E (NO RELAYS ACTIVE) and NX508-E			
Maximum Wire Run Connected to NX8/NX8E or NX320-E	Maximum Wire Run When Connected to NX8/NX8E		Maximum Wire Run When Connected to NX320-E	
	Using AUX	**NOT** using Aux	Using AUX	**NOT** using Aux
250' = 20 AWG 500' = 16 AWG 1000' = 14 AWG 1500' = 12 AWG 2500' = 10 AWG	250' = 24 AWG 500' = 20 AWG 1000' = 18 AWG 1500' = 16 AWG 2500' = 14 AWG	250' = 24 AWG 750' = 24 AWG 1000' = 22 AWG 2000' = 20 AWG 2500' = 18 AWG	250' = 22 AWG 500' = 18 AWG 1000' = 16 AWG 1500' = 14 AWG 2500' = 12 AWG	500' = 22 AWG 750' = 20 AWG 1000' = 20 AWG 2000' = 16 AWG 2500' = 16 AWG

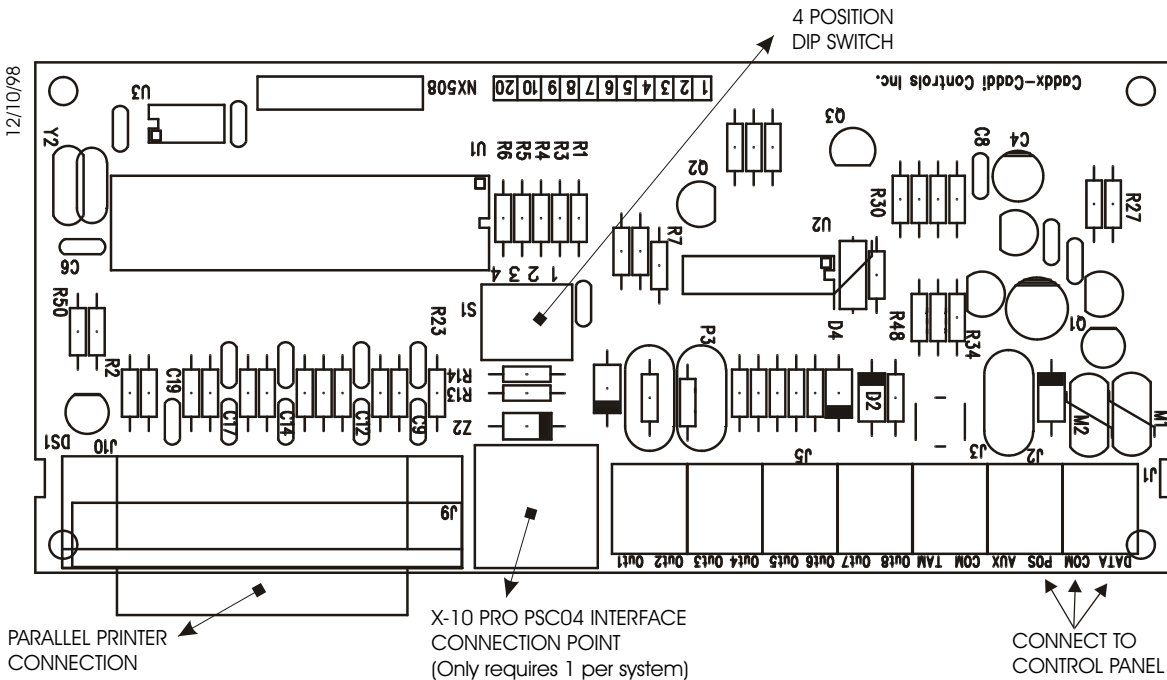| NX507-E TERMINAL DESCRIPTION	
DATA	Connect to the control panel **DATA** terminal. This terminal is the data-signaling terminal to all the devices on the buss.
COM	Connect to the control panel **COMMON** terminal. This terminal supplies the common side of the power to the NX507-E board.
POS	Connect to control panel **AUX POWER +** terminal. This terminal supplies power to the NX507-E board.
TAM	This is an option tamper terminal. To use this feature, connect the normally closed tamper switch between this terminal and **COM**. If this feature is not used, a jumper must be connected between this terminal and common.
COM	Connect to the tamper terminal through a normally closed contact.
AUX	This terminal can supply up to 100 mA fused separate from the power in the control panel. ***NOTE***: *Any power drain from this terminal should be included in total current draw from the NetworX Control Panel or NX320-E Power Supply as applicable*. This allows an isolation of the power between the main control and remote devices. If a short is created past the **AUX** terminal, those devices will cease to function, but the other devices, including the NX507-E, will continue to operate. The NX507-E will report this problem to the control for display on the keypad as an expander power trouble.
RELAY 7 **7NC**	Normally closed dry contact rated 1 Amp at 30 Volts.
7COM	Common dry contact rated 1 Amp at 30 VDC.
7NO	Normally open dry contact rated 1 Amp at 30 Volts.
RELAYS 1-6	Same as Relay 7 shown above.
OUTPUT 8	Open collector output that switches to GND when activated - capable of up to 100 mA. NOTE: If device is connected to output, it must see the transition from 13V to GND. Caddx Part # 8915 can be used to connect to Output 8.

NX507-E DRAWING

#39-0013v1

NO = Normally open dry contact rated 1 Amp at 30 Volts
COM = Common dry contact rated 1 Amp at 30 VDC
NC = Normally closed dry contact rated 1 Amp at 30 Volts

NX508-E TERMINAL DESCRIPTION	
DATA	Connect to the control panel **DATA** terminal. This terminal is the data-signaling terminal to all the devices on the buss.
COM	Connect to the control panel **COMMON** terminal. This terminal supplies the common side of the power to the NX508-E board.
POS	Connect to control panel **AUX POWER +** terminal. This terminal supplies power to the NX508-E board.
TAM	This is an optional tamper terminal. To use this feature, connect the normally closed tamper switch between this terminal and **COM**. If this feature is not used, a jumper must be connected between this terminal and common.
COM	Connect to the tamper terminal through a normally closed contact.
AUX	This terminal can supply up to 100 mA fused separate from the power in the control panel. **NOTE: Any power drain from this terminal should be included in total current draw from the NX8/NX8E or NX320-E as applicable.** This allows an isolation of the power between the main control and remote devices. If a short is created past the **AUX** terminal, those devices will cease to function, but the other devices, including the NX508-E, will continue to operate. The NX508-E will report this problem to the control for display on the keypad as an expander power trouble.
Out 1- 8	Open Collector outputs that switch to GND when activated - capable of up to 100 mA. **NOTE**: If device is connected to outputs, it must see the transition from 13V to GND. The enclosed resistors must be used. Connect the resistor between AUX and the output being used.

NX508-E DRAWING

4 POSITION
DIP SWITCH

PARALLEL PRINTER
CONNECTION

X-10 PRO PSC04 INTERFACE
CONNECTION POINT
(Only requires 1 per system)

CONNECT TO
CONTROL PANEL

INSTALLING THE NX507-E AND NX508-E

The first thing that must be decided is the address of this particular relay/output module. This is the address that will be selected when programming the auxiliary devices. To set the addresses use the table below.

NOTE: DipSwitch 4 is used to disable the Tamper feature. ("On" = enabled / "Off" = disabled)

Address	Dip Switch 1	Dip Switch 2	Dip Switch 3
24	ON	ON	OFF
25	OFF	OFF	ON
26	ON	OFF	ON
27	OFF	ON	ON
28	ON	ON	ON
29	OFF	OFF	OFF
30	ON	OFF	OFF
31	OFF	ON	OFF

ENROLLING THE NX507-E AND NX508-E

The NetworX control panels have the ability to automatically find and store in memory the presence of all keypads, zone expanders, wireless receivers, output modules, and any other device on the keypad buss. This allows these devices to be supervised by the control panel. To enroll the devices, enter the Program Mode using the procedure outlined in the control panel Installation Manual. When the Program Mode is exited, the NX8/NX8E control 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. Once a module is enrolled, if it is not detected by the control, the "Service" LED will illuminate.

PROGRAMMING THE AUXILIARY MODULES

The Program Mode is accessed by entering [✱]-[**8**] (all of the function key LEDs will begin to flash). Enter the "Go To Program" code (default is [**9**]-[**7**]-[**1**]-[**3**]). If the code was valid, the Service LED will flash, and the function LEDs will illuminate steady, indicating the device to program should be entered. Next, enter the address of the NX508-E you wish to program followed by [**#**] (**see DipSwitch chart on page 5**). At this point, the Armed LED will illuminate while it is waiting for a programming location to be entered. Enter the desired programming location. The Armed LED will begin to flash while a programming location is being entered. Enter the [**#**] key. If this is a valid location, the Armed LED will extinguish, the Ready LED will illuminate, and the binary data for the first segment of this location will be shown on the zone LEDS. To change the data, enter the data followed by [✱]. The data will be entered, and the location will automatically increment to the next segment. The data for that segment will be displayed. This procedure is repeated until the last segment is reached. Pressing the [**#**] key will exit from this location. To review the data, repeat the above procedure, pressing the [✱] key without entering data first. Each time the [✱] key is pressed, the next segment is displayed. Programming data is always one of two types of data. The first type is numerical, and can take on values from 0-255 or 0-15 depending on the segment size. The second type is a feature selection type. Feature selection data is used to turn features on or off. **LCD Keypad Users Note:** All steps required for programming are the same as the aforementioned LED keypad. The LCD keypad display will prompt you for the data required. While in the programming mode, and not in a location, the number in parenthesis is the location you were previously changing. For example, if the display reads "Enter location, then #   (5)", it is reminding you that location 5 was the last location you programmed. In feature selection data, the numbers of the enabled features will be displayed. The features **not** enabled will display a hyphen (-).

PROGRAMMING LOCATIONS

LOCATION 0   PROGRAMMING THE EVENT, ZONE AND TIME FOR OUTPUT 1
(3 segments of numerical data) Location 0 is used to select the particular function, zone number, and time for an output to trip.

Segment 1 (EVENT)	Selects the event that will trigger the output. See chart below for the specific events that can be selected**.**
Segment 2 (ZONE/USER)	Selects the zone or user number necessary to trigger an output. If this location is programmed as a zero, any zone or user will activate the output. (See also loc.68, page 8)
Segment 3 (TIME)	Selects the amount of time an output will remain activated when an output triggers. If this location is programmed as a zero, the output will follow the particular event.

#	Event	#	Event	#	Event
0 √	Burglary Alarm	20	Entry or Exit	40	Box Tamper
1 √	Fire Alarm	21	Armed	41	Siren Tamper
2 √	24 Hour Alarm	22	Not Armed	42	Any Zone Faulted
3 √	Zone Trouble	23	Ready	43 √	Any Alarm
4 √	Zone Tamper	24	Not Ready	44	Keypad Beeping
5	Burglary Siren	25	Fire	45 √	Code Entry
6	Fire Siren	26	Fire Trouble	46 ⊠	Key FOB Function 1
7	Any Siren	27	Chime	47 ⊠	Key FOB Function 2
8	Zone Bypass	28 √	Expander Trouble	48	Auto Arm Control
9	AC Failure	29	Dynamic Battery Test	49	Auto Disarm Control
10	System Low Battery	30	Open Schedule ◆	50	Auto Arm & Disarm Control
11 √	Duress	31	Closed Schedule ◆	51	Follow schedule of NX508-E
12 √	Manual Fire	32	Listen In	52	Flash X-10 for Alarm Memory
13 √	Aux 2 Keypad	33	Line Seizure	53	Flash X-10 for Siren
14 √	Keypad Panic	34	Failed to Communicate	54	Armed Away (Exit Expired)
15	Keypad Tamper	35	Telephone Line Fault	55	End Listen In (Integrated Only)
16 √	Automatic Test	36	Program Mode	56	Follow X-10 Command
17	Alarm Memory	37	Download	57	Armed Stay
18	Entry	38	Ground Fault		
19	Exit	39	Over Current		

◆ **See loc. 52 & 53 in NX8/NX8E   √ If set to follow condition, these events will be 1 second.**
⊠ **Events 46 & 47 require NX-408, NX-416, or NX-448 wireless receivers to operate.**
Events 48, 49, and 50 will arm or disarm the NX8/NX8E at the open (disarm) or close (arm) time for the appropriate schedule. See example 3 on page 7.

LOCATION 1   PROGRAMMING SPECIAL FUNCTIONS AND PARTITIONS FOR OUTPUT 1
(2 segments of binary data)

Segment 1 Selects the following special conditions:
LED 1 - "On" if output should time in minutes; "Off" if output times in seconds.
LED 2 - "On" if output should latch until a code is entered.
LED 3 - "On" if output should reset if a code is entered while it is being timed.
LED 4 - "On" if output should only trigger during a closed schedule.
LED 5 - "On" if output should only trigger during an open schedule.
LED 6 - "On" if the output should be inverted.
LED 7 - "On" if a trigger should be logged in the event buffer. See chart.

Address	Output
24	1-8
25	9-16
26	17-24
27	25-32
28	33-40
29	41-48
30	49-56
31	57-64

Segment 2 Selects the following partitions:
LED 1 - "On" if the event should activate when it occurs in Partition 1.
LED 2 - "On" if the event should activate when it occurs in Partition 2.
LED 3 - "On" if the event should activate when it occurs in Partition 3.
LED 4 - "On" if the event should activate when it occurs in Partition 4.
LED 5 - "On" if the event should activate when it occurs in Partition 5.
LED 6 - "On" if the event should activate when it occurs in Partition 6.
LED 7 - "On" if the event should activate when it occurs in Partition 7.
LED 8 - "On" if the event should activate when it occurs in Partition 8.

LOCATION 2   ENABLING THE SCHEDULES FOR OUTPUT 1
(1 segment of binary data) Location 2 is used to enable any or all of the eight (8) schedules. LED 1 corresponds to Schedule 1 (see locations 32-34, page 8) and LED 8 corresponds to Schedule 8 (see locations 53-55, page 8). This location can be used in conjunction with the Special Function location to create an output that will only activate during certain times and/or certain days.

LED 1 - "On" if the event should follow Schedule 1.
LED 2 - "On" if the event should follow Schedule 2.
LED 3 - "On" if the event should follow Schedule 3.
LED 4 - "On" if the event should follow Schedule 4.
LED 5 - "On" if the event should follow Schedule 5.
LED 6 - "On" if the event should follow Schedule 6.
LED 7 - "On" if the event should follow Schedule 7.
LED 8 - "On" If the event should follow Schedule 8.

LOCATION 3   PROGRAMMING THE X-10 ADDRESS FOR OUTPUT 1
(2 segments of numerical data)

Segment 1 Program a number from 0-15 to represent the corresponding X-10 **Module Number** from the following table.

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

Segment 2 Program a number from 0-15 to represent the corresponding X-10 **House code** from the following table.

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

LOCATIONS 4 - 31   PROGRAMMING FOR OUTPUTS 2- 8
Locations 4 - 31 are used to program the events, zones and times, as well as the special functions, partitions, schedules and X-10 addresses for Outputs 2 - 8. Each output has four locations that are programmed with the same steps as Output 1 described previously. Refer to Output 1 for specific instructions (locations 0 - 3, pages 6 and 7). Also refer to the worksheets beginning on page 12.

LOCATION 32   PROGRAMMING THE OPENING TIME FOR SCHEDULE 1
(2 segments of numerical data)

    Segment 1   Program the hour of the opening time in 24-hour format. (1:00 PM = 13)
    Segment 2   Program the minutes after the hour of the opening time for Schedule 1.

LOCATION 33   PROGRAMMING THE CLOSING TIME FOR SCHEDULE 1
(2 segments of numerical data)

    Segment 1   Program the hour of the closing time in 24-hour format. (1:00 PM = 13)
    Segment 2   Program the minutes after the hour of the closing time for Schedule 1.

LOCATION 34   PROGRAMMING THE DAYS FOR SCHEDULE 1
(1 segment of numerical data)

LED	DESCRIPTION
1	"On" if the schedule is active on Sunday.
2	"On" if the schedule is active on Monday.
3	"On" if the schedule is active on Tuesday.
4	'On" if the schedule is active on Wednesday.
5	"On" if the schedule is active on Thursday.
6	"On" if the schedule is active on Friday.
7	'On" if the schedule is active on Saturday.
8	"On" if the schedule is disabled on holidays.

LOCATIONS 35 - 55   PROGRAMMING FOR SCHEDULES 2-8
(2 segments of numerical data) Locations 35 - 55 are used to program the opening times, closing times, and days for Schedules 2 - 8. Each schedule has three locations that are programmed with the same steps as Schedule 1 described previously. Refer to Schedule 1 (locations 32 - 34 above) for specific instructions and the worksheets beginning on page 12.

LOCATION 56   PROGRAMMING THE DATE OF HOLIDAYS IN JANUARY
(8 segments of numerical data) Program the day of the month in January that the Opening time in a schedule is suppressed. For example, if the opening should not occur on January 1, program a "1" in Segment 1. This feature can be repeated up to a maximum of 8 holidays per location (month).

LOCATIONS 57-67   PROGRAMMING THE DATE OF HOLIDAYS FROM FEBRUARY TO DECEMBER
(8 segments of numerical data) Locations 57 - 67 are used to program the day of each month, from February to December, in which the Opening time in a schedule is suppressed. Each location will accommodate up to a maximum of 8 holidays, and programmed with the same steps as Location 56 described previously. Refer to worksheets.

LOCATION 68   AUTHORIZING USERS 1-10 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code (event #45), location 68 can be used to restrict certain codes from activating certain outputs. Location 68 contains 10 segments. Segment 1 corresponds to user 1; Segment 10 corresponds to user 10. The LEDs correspond to outputs 1 - 8. **NOTE: The zone/user for the corresponding output must be "0" to use this location.**

LED	DESCRIPTION
1	"On" if code will activate Output 1; "Off" if it will not.
2	"On" if code will activate Output 2; "Off" if it will not.
3	"On" if code will activate Output 3; "Off" if it will not.
4	"On" if code will activate Output 4; "Off" if it will not.
5	"On" if code will activate Output 5; "Off" if it will not.
6	"On" if code will activate Output 6; "Off" if it will not.
7	"On" if code will activate Output 7; "Off" if it will not.
8	"On" if code will activate Output 8; "Off" if it will not.

LOCATION 69   AUTHORIZING USERS 11-20 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 69 can be used to restrict certain codes from activating certain outputs. Location 69 contains 10 segments. Segment 1 corresponds to user 11; Segment 10 corresponds to user 20. The LEDs correspond to outputs 1 - 8. Refer to location 68 chart.

LOCATION 70   AUTHORIZING USERS 21-30 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 70 can be used to restrict certain codes from activating certain outputs. Location 70 contains 10 segments. Segment 1 corresponds to user 21; Segment 10 corresponds to user 30. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 71   AUTHORIZING USERS 31-40 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 71 can be used to restrict certain codes from activating certain outputs. Location 71 contains 10 segments. Segment 1 corresponds to user 31; Segment 10 corresponds to user 40. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 72   AUTHORIZING USERS 41-50 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 72 can be used to restrict certain codes from activating certain outputs. Location 72 contains 10 segments. Segment 1 corresponds to user 41; Segment 10 corresponds to user 50. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 73   AUTHORIZING USERS 51-60 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 73 can be used to restrict certain codes from activating certain outputs. Location 73 contains 10 segments. Segment 1 corresponds to user 51; Segment 10 corresponds to user 60. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 74   AUTHORIZING USERS 61-70 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 74 can be used to restrict certain codes from activating certain outputs. Location 74 contains 10 segments. Segment 1 corresponds to user 61; Segment 10 corresponds to user 70. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 75   AUTHORIZING USERS 71-80 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 75 can be used to restrict certain codes from activating certain outputs. Location 75 contains 10 segments. Segment 1 corresponds to user 71; Segment 10 corresponds to user 80. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 76   AUTHORIZING USERS 81-90 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 76 can be used to restrict certain codes from activating certain outputs. Location 76 contains 10 segments. Segment 1 corresponds to user 81; Segment 10 corresponds to user 90. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 77   AUTHORIZING USERS 91-100 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 77 can be used to restrict certain codes from activating certain outputs. Location 77 contains 10 segments. Segment 1 corresponds to user 91; Segment 9 corresponds to user 100. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 78   AUTHORIZING USERS 101-110 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 78 can be used to restrict certain codes from activating certain outputs. Location 78 contains 10 segments. Segment 1 corresponds to user 101; Segment 10 corresponds to user 110. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 79   AUTHORIZING USERS 111-120 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 79 can be used to restrict certain codes from activating certain outputs. Location 79 contains 10 segments. Segment 1 corresponds to user 111; Segment 10 corresponds to user 120. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 80   AUTHORIZING USERS 121-130 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 80 can be used to restrict certain codes from activating certain outputs. Location 80 contains 10 segments. Segment 1 corresponds to user 121; Segment 10 corresponds to user 130. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 81   AUTHORIZING USERS 131-140 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 81 can be used to restrict certain codes from activating certain outputs. Location 81 contains 10 segments. Segment 1 corresponds to user 131; Segment 10 corresponds to user 140. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 82   AUTHORIZING USERS 141-150 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 82 can be used to restrict certain codes from activating certain outputs. Location 82 contains 10 segments. Segment 1 corresponds to user 141; Segment 10 corresponds to user 150. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 83   AUTHORIZING USERS 151-160 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 83 can be used to restrict certain codes from activating certain outputs. Location 83 contains 10 segments. Segment 1 corresponds to user 151; Segment 10 corresponds to user 160. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 84   AUTHORIZING USERS 161-170 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 84 can be used to restrict certain codes from activating certain outputs. Location 84 contains 10 segments. Segment 1 corresponds to user 161; Segment 10 corresponds to user 170. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 85   AUTHORIZING USERS 171-180 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 85 can be used to restrict certain codes from activating certain outputs. Location 85 contains 10 segments. Segment 1 corresponds to user 171; Segment 10 corresponds to user 180. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 86   AUTHORIZING USERS 181-190 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 86 can be used to restrict certain codes from activating certain outputs. Location 86 contains 10 segments. Segment 1 corresponds to user 181; Segment 10 corresponds to user 190. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 87   AUTHORIZING USERS 191-200 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 87 can be used to restrict certain codes from activating certain outputs. Location 87 contains 10 segments. Segment 1 corresponds to user 191; Segment 10 corresponds to user 200. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 88   AUTHORIZING USERS 201-210 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 88 can be used to restrict certain codes from activating certain outputs. Location 88 contains 10 segments. Segment 1 corresponds to user 201; Segment 10 corresponds to user 210. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 89   AUTHORIZING USERS 211-220 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 89 can be used to restrict certain codes from activating certain outputs. Location 89 contains 10 segments. Segment 1 corresponds to user 211; Segment 10 corresponds to user 220. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 90   AUTHORIZING USERS 221-230 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 90 can be used to restrict certain codes from activating certain outputs. Location 90 contains 10 segments. Segment 1 corresponds to user 221; Segment 10 corresponds to user 230. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

LOCATION 91   AUTHORIZING USERS 231-240 FOR OUTPUTS 1-8
(10 segments of binary data) When activating outputs with a user code, location 91 can be used to restrict certain codes from activating certain outputs. Location 91 contains 10 segments. Segment 1 corresponds to user 231; Segment 10 corresponds to user 240. The LEDs correspond to outputs 1 - 8. Refer to chart on page 8, location 68.

PROGRAMMING EXAMPLES

Possible application for NX508-E outputs:
- Example #1   Turn on entryway light upon entry only during nighttime.
- Example #2   Turn a device on or off during business hours.
- Example #3   Arm the system. *NOTE TO EXAMPLE #3: The opening time is defaulted to 0800 for all schedules. With this example, the NX508-E will try to Auto Arm after every 45 minutes of inactivity on the Ready LED, from closing time to opening time.*

(Feature Selections to be programmed are shown in **bold Italics** text.)

Example #1   To have Output #1 trip and activate an X-10 module with House code C and Unit Code 4 for 6 minutes when Zone 1 is faulted only from 5:00 p.m. to 9:00 a.m., program the following:

Example #2   To have output 5 trip and activate an X-10 module with a House code of P and a Unit code of 8 from 9:00 a.m. to 5:00 p.m. Monday to Friday, but not at all on Saturday or Sunday, program the following:

Example #3   To have Output 3 Auto Arm partitions #1 & 2 at 7:00 p.m. Monday thru Friday, 9:00 p.m. Saturday, but not at all on Sunday, program the following:

LOC	SEGMENT 1	2	3
0	42	1	6
1	*LED* *1* 2 3 *4* 5 6 7 8		
2	*1* 2 3 4 5 6 7 8		
3	3	2	
32	9	0	
33	17	0	
34	*1* *2* *3* *4* *5* *6* *7* *8*		

LOC	SEGMENT 1	2	3
16	51	0	0
17	*LED* 1 2 3 4 *5* 6 7 8		
18	*1* 2 3 4 5 6 7 8		
19	7	15	
32	9	0	
33	17	0	

LOC	SEGMENT 1	2	3
8	48	3	10
9		*LED* *1* *2* 3 4 5 6 7 8	
10	*1* *2* *3* 4 5 6 7 8		
33	19	0	
36	21	0	
37	1 2 3 4 5 6 *7* 8	0	
38	0	0	
39	23	59	
40	*1* 2 3 4 5 6 7 8		

PROGRAMMING WORKSHEETS

(Defaults are printed in **bold Italics** text.)

LOC	PAGE	DESCRIPTION		DEFAULT	DATA
0	6	Output 1 Event, Zone, Time		***43 1 10***	_ _ _
1	6	Output 1 Special Functions, Partition			
		Segment 1	Segment 2		
		1 = "On" if output should time in minutes; "Off" if output times in seconds ❏ 2 = "On" if output should latch until a code is entered ❏ ***3 = "On" if output should reset if a code is entered while it is being timed*** ❏ 4 = "On" if output should only trigger during a closed schedule ❏ 5 = "On" if output should only trigger during an open schedule ❏ 6 = "On" if the output should be inverted ❏ 7 = "On" if a trigger should be logged in event buffer ❏	***1 = Partition 1*** ❏ ***2 = Partition 2*** ❏ ***3 = Partition 3*** ❏ ***4 = Partition 4*** ❏ ***5 = Partition 5*** ❏ ***6 = Partition 6*** ❏ ***7 = Partition 7*** ❏ ***8 = Partition 8*** ❏		
2	7	Output 1 Schedule			
		1 = Schedule 1 ❏ ***5 = Schedule 5*** ❏ ***2 = Schedule 2*** ❏ ***6 = Schedule 6*** ❏ ***3 = Schedule 3*** ❏ ***7 = Schedule 7*** ❏ ***4 = Schedule 4*** ❏ ***8 = Schedule 8*** ❏			
3	7	Output 1 X-10 Address			
		Segment 1 Module Number		***0***	__
		Segment 2 House Code		***0***	__
4	7	Output 2 Event, Zone, Time		***43 2 10***	_ _ _
5	7	Output 2 Special Functions, Partition			
		Segment 1	Segment 2		
		1 = "On" if output should time in minutes; "Off" if output times in seconds ❏ 2 = "On" if output should latch until a code is entered ❏ ***3 = "On" if output should reset if a code is entered while it is being timed*** ❏ 4 = "On" if output should only trigger during a closed schedule ❏ 5 = "On" if output should only trigger during an open schedule ❏ 6 = "On" if the output should be inverted ❏ 7 = "On" if a trigger should be logged in event buffer ❏	***1 = Partition 1*** ❏ ***2 = Partition 2*** ❏ ***3 = Partition 3*** ❏ ***4 = Partition 4*** ❏ ***5 = Partition 5*** ❏ ***6 = Partition 6*** ❏ ***7 = Partition 7*** ❏ ***8 = Partition 8*** ❏		

X-10 ADDRESS CODES

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

LOC	PAGE	DESCRIPTION		DEFAULT	DATA
6	7	Output 2 Schedule			
		1 = Schedule 1 ❏ *2 = Schedule 2* ❏ *3 = Schedule 3* ❏ *4 = Schedule 4* ❏	*5 = Schedule 5* ❏ *6 = Schedule 6* ❏ *7 = Schedule 7* ❏ *8 = Schedule 8* ❏		
7	7	Output 2 X-10 Address			
		Segment 1 Module Number		*1*	__
		Segment 2 House Code (See chart on page 12)		*0*	__
8	7	Output 3 Event, Zone, Time		*43 3 10*	_ _ _
9	7	Output 3 Special Functions, Partition			
		Segment 1	Segment 2		
		1 = "On" if output should time in minutes; "Off" if output times in seconds ❏ 2 = "On" if output should latch until a code is entered ❏ *3 = "On" if output should reset if a code is entered while it is being timed* ❏ 4 = "On" if output should only trigger during a closed schedule ❏ 5 = "On" if output should only trigger during an open schedule ❏ 6 = "On" if the output should be inverted ❏ 7 = "On" if a trigger should be logged in event buffer ❏	*1 = Partition 1* ❏ *2 = Partition 2* ❏ *3 = Partition 3* ❏ *4 = Partition 4* ❏ *5 = Partition 5* ❏ *6 = Partition 6* ❏ *7 = Partition 7* ❏ *8 = Partition 8* ❏		
10	7	Output 3 Schedule			
		1 = Schedule 1 ❏ *2 = Schedule 2* ❏ *3 = Schedule 3* ❏ *4 = Schedule 4* ❏	*5 = Schedule 5* ❏ *6 = Schedule 6* ❏ *7 = Schedule 7* ❏ *8 = Schedule 8* ❏		
11	7	Output 3 X-10 Address			
		Segment 1 Module Number		*2*	__
		Segment 2 House Code (See chart on page 12)		*0*	__
12	7	Output 4 Event, Zone, Time		*43 4 10*	_ _ _
13	7	Output 4 Special Functions, Partition			
		Segment 1	Segment 2		
		1 = "On" if output should time in minutes; "Off" if output times in seconds ❏ 2 = "On" if output should latch until a code is entered ❏ *3 = "On" if output should reset if a code is entered while it is being timed* ❏ 4 = "On" if output should only trigger during a closed schedule ❏ 5 = "On" if output should only trigger during an open schedule ❏ 6 = "On" if the output should be inverted ❏ 7 = "On" if a trigger should be logged in event buffer ❏	*1 = Partition 1* ❏ *2 = Partition 2* ❏ *3 = Partition 3* ❏ *4 = Partition 4* ❏ *5 = Partition 5* ❏ *6 = Partition 6* ❏ *7 = Partition 7* ❏ *8 = Partition 8* ❏		

LOC	PAGE	DESCRIPTION		DEFAULT	DATA
14	7	Output 4 Schedule			
		1 = Schedule 1 ❏ *2 = Schedule 2* ❏ *3 = Schedule 3* ❏ *4 = Schedule 4* ❏	*5 = Schedule 5* ❏ *6 = Schedule 6* ❏ *7 = Schedule 7* ❏ *8 = Schedule 8* ❏		
15	7	Output 4 X-10 Address			
		Segment 1 Module Number		*3*	__
		Segment 2 House Code (See chart on page 12)		*0*	__
16	7	Output 5 Event, Zone, Time		*43 5 10*	_ _ _
17	7	Output 5 Special Functions, Partition			
		Segment 1	Segment 2		
		1 = "On" if output should time in minutes; "Off" if output times in seconds ❏ 2 = "On" if output should latch until a code is entered ❏ *3 = "On" if output should reset if a code is entered while it is being timed* ❏ 4 = "On" if output should only trigger during a closed schedule ❏ 5 = "On" if output should only trigger during an open schedule ❏ 6 = "On" if the output should be inverted ❏ 7 = "On" if a trigger should be logged in event buffer ❏	*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	7	Output 5 Schedule			
		1 = Schedule 1 ❏ *2 = Schedule 2* ❏ *3 = Schedule 3* ❏ *4 = Schedule 4* ❏	*5 = Schedule 5* ❏ *6 = Schedule 6* ❏ *7 = Schedule 7* ❏ *8 = Schedule 8* ❏		
19	7	Output 5 X-10 Address			
		Segment 1 Module Number		*4*	__
		Segment 2 House Code (See chart on page 12)		*0*	__
20	7	Output 6 Event, Zone, Time		*43 6 10*	_ _ _
21	7	Output 6 Special Functions, Partition			
		Segment 1	Segment 2		
		1 = "On" if output should time in minutes; "Off" if output times in seconds ❏ 2 = "On" if output should latch until a code is entered ❏ *3 = "On" if output should reset if a code is entered while it is being timed* ❏ 4 = "On" if output should only trigger during a closed schedule ❏ 5 = "On" if output should only trigger during an open schedule ❏ 6 = "On" if the output should be inverted ❏ 7 = "On" if a trigger should be logged in event buffer ❏	*1 = Partition 1* ❏ *2 = Partition 2* ❏ *3 = Partition 3* ❏ *4 = Partition 4* ❏ *5 = Partition 5* ❏ *6 = Partition 6* ❏ *7 = Partition 7* ❏ *8 = Partition 8* ❏		

LOC	PAGE	DESCRIPTION		DEFAULT	DATA
22	7	Output 6 Schedule			
		1 = Schedule 1 ❏ *2 = Schedule 2* ❏ *3 = Schedule 3* ❏ *4 = Schedule 4* ❏	*5 = Schedule 5* ❏ *6 = Schedule 6* ❏ *7 = Schedule 7* ❏ *8 = Schedule 8* ❏		
23	7	Output 6 X-10 Address			
		Segment 1 Module Number		*5*	__
		Segment 2 House Code (See chart on page 12)		*0*	__
24	7	Output 7 Event, Zone, Time		*43 7 10*	_ _ _
25	7	Output 7 Special Functions, Partition			
		Segment 1	Segment 2		
		1 = "On" if output should time in minutes; "Off" if output times in seconds ❏ 2 = "On" if output should latch until a code is entered ❏ *3 = "On" if output should reset if a code is entered while it is being timed* ❏ 4 = "On" if output should only trigger during a closed schedule ❏ 5 = "On" if output should only trigger during an open schedule ❏ 6 = "On" if the output should be inverted ❏ 7 = "On" if a trigger should be logged in event buffer ❏	*1 = Partition 1* ❏ *2 = Partition 2* ❏ *3 = Partition 3* ❏ *4 = Partition 4* ❏ *5 = Partition 5* ❏ *6 = Partition 6* ❏ *7 = Partition 7* ❏ *8 = Partition 8* ❏		
26	7	Output 7 Schedule			
		1 = Schedule 1 ❏ *2 = Schedule 2* ❏ *3 = Schedule 3* ❏ *4 = Schedule 4* ❏	*5 = Schedule 5* ❏ *6 = Schedule 6* ❏ *7 = Schedule 7* ❏ *8 = Schedule 8* ❏		
27	7	Output 7 X-10 Address			
		Segment 1 Module Number		*6*	__
		Segment 2 House Code (See chart on page 12)		*0*	__
28	7	Output 8 Event, Zone, Time		*43 8 10*	_ _ _
29	7	Output 8 Special Functions, Partition			
		Segment 1	Segment 2		
		1 = "On" if output should time in minutes; "Off" if output times in seconds ❏ 2 = "On" if output should latch until a code is entered ❏ *3 = "On" if output should reset if a code is entered while it is being timed* ❏ 4 = "On" if output should only trigger during a closed schedule ❏ 5 = "On" if output should only trigger during an open schedule ❏ 6 = "On" if the output should be inverted ❏ 7 = "On" if a trigger should be logged in event buffer ❏	*1 = Partition 1* ❏ *2 = Partition 2* ❏ *3 = Partition 3* ❏ *4 = Partition 4* ❏ *5 = Partition 5* ❏ *6 = Partition 6* ❏ *7 = Partition 7* ❏ *8 = Partition 8* ❏		

LOC	PAGE	DESCRIPTION		DEFAULT	DATA
30	7	Output 8 Schedule			
		1 = Schedule 1 ❏ *2 = Schedule 2* ❏ *3 = Schedule 3* ❏ *4 = Schedule 4* ❏	*5 = Schedule 5* ❏ *6 = Schedule 6* ❏ *7 = Schedule 7* ❏ *8 = Schedule 8* ❏		
31	7	Output 8 X-10 Address			
		Segment 1 Module Number		*7*	__
		Segment 2 House Code (See chart on page 12)		*0*	__
32	8	Schedule 1 Opening Time		*8 - 0*	_____
33	8	Schedule 1 Closing Time		*20 - 0*	_____
34	8	Schedule 1 Days			
		1 = Sunday ❏ *2 = Monday* ❏ *3 = Tuesday* ❏ *4 = Wednesday* ❏	*5 = Thursday* ❏ *6 = Friday* ❏ 7 = Saturday ❏ 8 = Disabled on holidays ❏		
35	8	Schedule 2 Opening Time		*8 - 0*	_____
36	8	Schedule 2 Closing Time		*20 - 0*	_____
37	8	Schedule 2 Days			
		1 = Sunday ❏ *2 = Monday* ❏ *3 = Tuesday* ❏ *4 = Wednesday* ❏	*5 = Thursday* ❏ *6 = Friday* ❏ 7 = Saturday ❏ 8 = Disabled on holidays ❏		
38	8	Schedule 3 Opening Time		*8 - 0*	_____
39	8	Schedule 3 Closing Time		*20 - 0*	_____
40	8	Schedule 3 Days			
		1 = Sunday ❏ *2 = Monday* ❏ *3 = Tuesday* ❏ *4 = Wednesday* ❏	*5 = Thursday* ❏ *6 = Friday* ❏ 7 = Saturday ❏ 8 = Disabled on holidays ❏		
41	8	Schedule 4 Opening Time		*8 - 0*	_____
42	8	Schedule 4 Closing Time		*20 - 0*	_____
43	8	Schedule 4 Days (Circle the numbers to program)			
		1 = Sunday ❏ *2 = Monday* ❏ *3 = Tuesday* ❏ *4 = Wednesday* ❏	*5 = Thursday* ❏ *6 = Friday* ❏ 7 = Saturday ❏ 8 = Disabled on holidays ❏		
44	8	Schedule 5 Opening Time		*8 - 0*	_____
45	8	Schedule 5 Closing Time		*20 - 0*	_____
46	8	Schedule 5 Days			
		1 = Sunday ❏ *2 = Monday* ❏ *3 = Tuesday* ❏ *4 = Wednesday* ❏	*5 = Thursday* ❏ *6 = Friday* ❏ 7 = Saturday ❏ 8 = Disabled on holidays ❏		
47	8	Schedule 6 Opening Time		*8 - 0*	_____

LOC	PAGE	DESCRIPTION		DEFAULT	DATA
48	8	Schedule 6 Closing Time		*20 - 0*	_____
49	8	Schedule 6 Days			
		1 = Sunday ❑ *2 = Monday ❑* *3 = Tuesday ❑* *4 = Wednesday ❑*	*5 = Thursday ❑* *6 = Friday ❑* 7 = Saturday ❑ 8 = Disabled on holidays ❑		
50	8	Schedule 7 Opening Time		*8 - 0*	_____
51	8	Schedule 7 Closing Time		*20 - 0*	_____
52	8	Schedule 7 Days			
		1 = Sunday ❑ *2 = Monday ❑* *3 = Tuesday ❑* *4 = Wednesday ❑*	*5 = Thursday ❑* *6 = Friday ❑* 7 = Saturday ❑ 8 = Disabled on holidays ❑		
53	8	Schedule 8 Opening Time		*8 - 0*	_____
54	8	Schedule 8 Closing Time		*20 - 0*	_____
55	8	Schedule 8 Days			
		1 = Sunday ❑ *2 = Monday ❑* *3 = Tuesday ❑* *4 = Wednesday ❑*	*5 = Thursday ❑* *6 = Friday ❑* 7 = Saturday ❑ 8 = Disabled on holidays ❑		
56	8	January Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
57	8	February Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
58	8	March Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
59	8	April Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
60	8	May Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
61	8	June Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
62	8	July Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
63	8	August Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
64	8	September Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
65	8	October Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
66	8	November Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _
67	8	December Holidays		*0-0-0-0-0-0-0-0*	_ _ _ _ _ _ _ _

LOC	PAGE	DESCRIPTION										
68	8	CODES 1-10 OUTPUT SELECTION (Circle the numbers to program)										
		User	1	2	3	4	5	6	7	8	9	10
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*

LOC	PAGE	DESCRIPTION										
69	9	CODES 11-20 OUTPUT SELECTION (Circle the numbers to program)										
		User	11	12	13	14	15	16	17	18	19	20
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
70	9	CODES 21-30 OUTPUT SELECTION (Circle the numbers to program)										
		User	21	22	23	24	25	26	27	28	29	30
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
71	9	CODES 31-40 OUTPUT SELECTION (Circle the numbers to program)										
		User	31	32	33	34	35	36	37	38	39	40
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
72	9	CODES 41-50 OUTPUT SELECTION (Circle the numbers to program)										
		User	41	42	43	44	45	46	47	48	49	50
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
73	9	CODES 51-60 OUTPUT SELECTION (Circle the numbers to program)										
		User	51	52	53	54	55	56	57	58	59	60
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*

LOC	PAGE	DESCRIPTION										
74	9	CODES 61-70 OUTPUT SELECTION (Circle the numbers to program)										
		User	61	62	63	64	65	66	67	68	69	70
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
75	10	CODES 71-80 OUTPUT SELECTION (Circle the numbers to program)										
		User	71	72	73	74	75	76	77	78	79	80
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
76	10	CODES 81-90 OUTPUT SELECTION (Circle the numbers to program)										
		User	81	82	83	84	85	86	87	88	89	90
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
77	10	CODES 91-100 OUTPUT SELECTION (Circle the numbers to program)										
		User	91	92	93	94	95	96	97	98	99	100
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
78	10	CODES 101-110 OUTPUT SELECTION (Circle the numbers to program)										
		User	101	102	103	104	105	106	107	108	109	110
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*

LOC	PAGE	DESCRIPTION										
79	10	CODES 111-120 OUTPUT SELECTION (Circle the numbers to program)										
		User	111	112	113	114	115	116	117	118	119	120
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
80	10	CODES 121-130 OUTPUT SELECTION (Circle the numbers to program)										
		User	121	122	123	124	125	126	127	128	129	130
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
81	10	CODES 131-140 OUTPUT SELECTION (Circle the numbers to program)										
		User	131	132	133	134	135	136	137	138	139	140
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
82	10	CODES 141-150 OUTPUT SELECTION (Circle the numbers to program)										
		User	141	142	143	144	145	146	147	148	149	150
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
83	10	CODES 151-160 OUTPUT SELECTION (Circle the numbers to program)										
		User	151	152	153	154	155	156	157	158	159	160
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*

LOC	PAGE	DESCRIPTION										
84	11	CODES 161-170 OUTPUT SELECTION (Circle the numbers to program)										
		User	161	162	163	164	165	166	167	168	169	170
		Output #1	1	1	1	1	1	1	1	1	1	1
		Output #2	2	2	2	2	2	2	2	2	2	2
		Output #3	3	3	3	3	3	3	3	3	3	3
		Output #4	4	4	4	4	4	4	4	4	4	4
		Output #5	5	5	5	5	5	5	5	5	5	5
		Output #6	6	6	6	6	6	6	6	6	6	6
		Output #7	7	7	7	7	7	7	7	7	7	7
		Output #8	8	8	8	8	8	8	8	8	8	8
85	11	CODES 171-180 OUTPUT SELECTION (Circle the numbers to program)										
		User	171	172	173	174	175	176	177	178	179	180
		Output #1	1	1	1	1	1	1	1	1	1	1
		Output #2	2	2	2	2	2	2	2	2	2	2
		Output #3	3	3	3	3	3	3	3	3	3	3
		Output #4	4	4	4	4	4	4	4	4	4	4
		Output #5	5	5	5	5	5	5	5	5	5	5
		Output #6	6	6	6	6	6	6	6	6	6	6
		Output #7	7	7	7	7	7	7	7	7	7	7
		Output #8	8	8	8	8	8	8	8	8	8	8
86	11	CODES 181-190 OUTPUT SELECTION (Circle the numbers to program)										
		User	181	182	183	184	185	186	187	188	189	190
		Output #1	1	1	1	1	1	1	1	1	1	1
		Output #2	2	2	2	2	2	2	2	2	2	2
		Output #3	3	3	3	3	3	3	3	3	3	3
		Output #4	4	4	4	4	4	4	4	4	4	4
		Output #5	5	5	5	5	5	5	5	5	5	5
		Output #6	6	6	6	6	6	6	6	6	6	6
		Output #7	7	7	7	7	7	7	7	7	7	7
		Output #8	8	8	8	8	8	8	8	8	8	8
87	11	CODES 191-200 OUTPUT SELECTION (Circle the numbers to program)										
		User	191	192	193	194	195	196	197	198	199	200
		Output #1	1	1	1	1	1	1	1	1	1	1
		Output #2	2	2	2	2	2	2	2	2	2	2
		Output #3	3	3	3	3	3	3	3	3	3	3
		Output #4	4	4	4	4	4	4	4	4	4	4
		Output #5	5	5	5	5	5	5	5	5	5	5
		Output #6	6	6	6	6	6	6	6	6	6	6
		Output #7	7	7	7	7	7	7	7	7	7	7
		Output #8	8	8	8	8	8	8	8	8	8	8
88	11	CODES 201-210 OUTPUT SELECTION (Circle the numbers to program)										
		User	201	202	203	204	205	206	207	208	209	210
		Output #1	1	1	1	1	1	1	1	1	1	1
		Output #2	2	2	2	2	2	2	2	2	2	2
		Output #3	3	3	3	3	3	3	3	3	3	3
		Output #4	4	4	4	4	4	4	4	4	4	4
		Output #5	5	5	5	5	5	5	5	5	5	5
		Output #6	6	6	6	6	6	6	6	6	6	6
		Output #7	7	7	7	7	7	7	7	7	7	7
		Output #8	8	8	8	8	8	8	8	8	8	8

| LOC	PAGE	DESCRIPTION										
89	11	CODES 211-220 OUTPUT SELECTION (Circle the numbers to program)										
		User	211	212	213	214	215	216	217	218	219	220
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
90	11	CODES 221-230 OUTPUT SELECTION (Circle the numbers to program)										
		User	221	222	223	224	225	226	227	228	229	230
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*
91	11	CODES 231-240 OUTPUT SELECTION (Circle the numbers to program)										
		User	231	232	233	234	235	236	237	238	239	240
		Output #1	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*
		Output #2	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*
		Output #3	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
		Output #4	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*
		Output #5	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*
		Output #6	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*	*6*
		Output #7	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
		Output #8	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*	*8*

ENCLOSURE DIAGRAM

Inside the can, several 2-holed insertion points have been constructed. This allows for either vertical or horizontal placement of the modules. **Notice that the insertion points have 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 screws 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* PCB guide should be positioned opposite of 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.
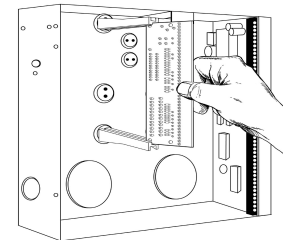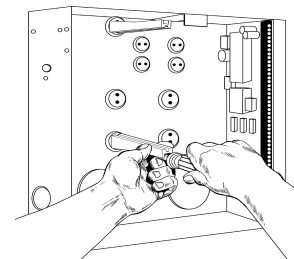
SPECIFICATIONS

DIMENSIONS	1 " Width x 6 " Length x 3 " Depth
OPERATING POWER	12 VDC, Supplied from NX8 / NX8-E or NX320-E
AUXILIARY POWER	Supplied by NX8 / NX8-E or NX320-E Limited to 100 mA by NX507-E or NX508-E
NX507 CURRENT DRAW	10 mA with no relays active 310 mA with all relays active + current draw of any device attached
NX508 CURRENT DRAW	10 mA with no outputs active 25 mA with all outputs active + current draw of any device attached
OPERATING TEMPERATURE	32 to 120 degrees F
SHIPPING WEIGHT	1 lb.

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