

NX-508 OUTPUT EXPANDER INSTALLATION MANUAL

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CADDX CONTROLS, INC.
1-800-727-2339

NX-508 OUTPUT MODULE

General Description

The NX-508 is a microprocessor controlled output module for the NX-8 control panel. Up to eight NX-508 modules can be added to the NetworX control panel for a total output count of 64. Each NX-508 has an optional Tamper switch and Auxiliary power terminal (see terminal descriptions) making it ideal for use in a remote location.

Installing the NX-508

The first thing that must be decided is the address of this particular output module. This is the address that will be selected when programming the NX-508. To set the address use the table below.

Dip switch 4 is used to disable the Tamper feature of the NX-508. ("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 NX-508 Expander

The NX-8 has the ability to automatically find and store in its 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 pad and illuminate the Service LED if one is not detected. To enroll the devices, enter the Program Mode using the procedure outlined in the NX-8 Installation Manual, and enter [9]-[1]-[5]-[#]. The keypad will beep 3 times indicating it will enroll all devices when the Program Mode is exited. Once the Program Mode is exited, the Service LED will illuminate while enrolling is in progress. Enrolling takes about 12 seconds.

Programming the NX-508

The Program Mode is accessed by entering [*]-[8] (all 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 NX-508 you wish to program followed by [#] (see Dip Switch chart on page 2). 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. However, the features not enabled will display a hyphen (-).

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 location 68, page 5.)

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	18	Entry	36	Program Mode
1 ✓	Fire Alarm	19	Exit	37	Download
2 ✓	24 Hour Alarm	20	Entry or Exit	38	Ground Fault
3 ✓	Zone Trouble	21	Armed	39	Over Current
4 ✓	Zone Tamper	22	Not Armed	40	Box Tamper
5	Burglary Siren	23	Ready	41	Siren Tamper
6	Fire Siren	24	Not Ready	42	Any Zone Faulted
7	Any Siren	25	Fire	43 ✓	Any Alarm
8	Zone Bypass	26	Fire Trouble	44	Keypad Beeping
9	AC Failure	27	Chime	45 ✓	Code Entry
10	System Low Battery	28 ✓	Expander Trouble	46	Key FOB Function 1
11 ✓	Duress	29	Dynamic Battery Test	47	Key FOB Function 2
12 ✓	Manual Fire	30	Open Schedule ♦	48	Auto Arm Control
13 ✓	Aux 2 Keypad	31	Closed Schedule ♦	49	Auto Disarm Control
14 ✓	Keypad Panic	32	Listen In	50	Auto Arm & Disarm Control
15	Keypad Tamper	33	Line Seizure	51	Follow schedule of NX-508
16 ✓	Automatic Test	34	Failed to Communicate	52	Flash X-10 for Alarm Memory
17	Alarm Memory	35	Telephone Line Fault	53	Flash X-10 for Siren

♦ See locations 52 & 53 in NX-8.

✓ 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 NX-8 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	24	25	26	27	28	29	30	31
Output	1-8	9-16	17-24	25-32	33-40	41-48	49-56	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 4) and LED 8 corresponds to Schedule 8 (see locations 53-55, page 5). 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 which are programmed with the same steps as Output 1 described previously. Refer to Output 1 for specific instructions (locations 0 - 3, pages 3 and 4). Also refer to the worksheets beginning on page 8.

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 which 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 8.

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 to Trigger 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 to Trigger 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 to Trigger 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 location 68 chart .

Location 71 - Authorizing Users 31-40 to Trigger 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 5, location 68.

Location 72 - Authorizing Users 41-50 to Trigger 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 5, location 68.

Location 73 - Authorizing Users 51-60 to Trigger 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 5, location 68.

Location 74 - Authorizing Users 61-70 to Trigger 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 5, location 68.

Location 75 - Authorizing Users 71-80 to Trigger 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 5, location 68.

Location 76 - Authorizing Users 81-90 to Trigger 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 5, location 68.

Location 77 - Authorizing Users 91-99 to Trigger 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 9 segments. Segment 1 corresponds to user 91, Segment 9 corresponds to user 99. The LEDs correspond to outputs 1 - 8. Refer to chart on page 5, location 68.

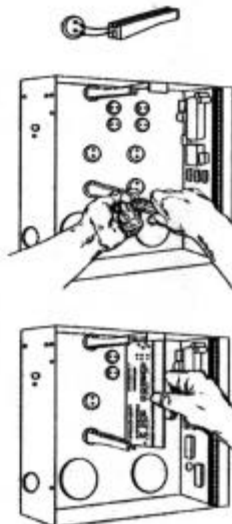
ENCLOSURE DIAGRAM

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.



PROGRAMMING EXAMPLES

Possible application for outputs:

- Example #1 Turn on entryway light upon entry only during night time.
- 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 NX-508 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:

LOC	SEGMENT		
	1	2	3
0	42	1	3
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		

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:

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	14	
32	9	0	
33	17	0	

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
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	0	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
38	0	0	
39	23	59	
40	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		

NetworX NX-508 Programming Worksheets

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

LOC	PAGE	DESCRIPTION	DEFAULT	DATA																				
0	4	Output 1 Event, Zone, Time	43 1 10	---																				
1	4	Output 1 Special Functions, Partition (Circle the ones to program)																						
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Segment 1</th> <th style="width: 50%;">Segment 2</th> </tr> </thead> <tbody> <tr> <td>1 "On" if output should time in minutes; "Off" if output times in seconds.</td> <td>1 Partition 1</td> </tr> <tr> <td>2 "On" if output should latch until a code is entered.</td> <td>2 Partition 2</td> </tr> <tr> <td>3 "On" if output should reset if a code is entered while it is being timed.</td> <td>3 Partition 3</td> </tr> <tr> <td>4 "On" if output should only trigger during a closed schedule.</td> <td>4 Partition 4</td> </tr> <tr> <td>5 "On" if output should only trigger during an open schedule.</td> <td>5 Partition 5</td> </tr> <tr> <td>6 "On" if the output should be inverted.</td> <td>6 Partition 6</td> </tr> <tr> <td>7 "On" if a trigger should be logged in the event buffer.</td> <td>7 Partition 7</td> </tr> <tr> <td></td> <td>8 Partition 8</td> </tr> </tbody> </table>	Segment 1	Segment 2	1 "On" if output should time in minutes; "Off" if output times in seconds.	1 Partition 1	2 "On" if output should latch until a code is entered.	2 Partition 2	3 "On" if output should reset if a code is entered while it is being timed.	3 Partition 3	4 "On" if output should only trigger during a closed schedule.	4 Partition 4	5 "On" if output should only trigger during an open schedule.	5 Partition 5	6 "On" if the output should be inverted.	6 Partition 6	7 "On" if a trigger should be logged in the event buffer.	7 Partition 7		8 Partition 8				
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3 Schedule 3	7 Schedule 7																							
4 Schedule 4	8 Schedule 8																							
3	4	Output 1 X-10 Address																						
		Segment 1 Module Number	0	---																				
		Segment 2 House Code	0	---																				
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3 Schedule 3	7 Schedule 7																							
4 Schedule 4	8 Schedule 8																							
7	4	Output 2 X-10 Address																						
		Segment 1 Module Number	1	---																				
		Segment 2 House Code (See chart on page 8)	0	---																				

LOC	PAGE	DESCRIPTION	DEFAULT	DATA
8	4	Output 3 Event, Zone, Time	43 3 10	---
9	4	Output 3 Special Functions, Partition (Circle the ones to program)		
		Segment 1	Segment 2	
		1 "On" if output should time in minutes; "Off" if output times in seconds.	1 Partition 1	
		2 "On" if output should latch until a code is entered.	2 Partition 2	
		3 "On" if output should reset if a code is entered while it is being timed.	3 Partition 3	
		4 "On" if output should only trigger during a closed schedule.	4 Partition 4	
		5 "On" if output should only trigger during an open schedule.	5 Partition 5	
		6 "On" if the output should be inverted.	6 Partition 6	
		7 "On" if a trigger should be logged in the event buffer.	7 Partition 7	
			8 Partition 8	
10	4	Output 3 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	
11	4	Output 3 X-10 Address		
		Segment 1 Module Number	2	---
		Segment 2 House Code (See chart on page 8)	0	---
12	4	Output 4 Event, Zone, Time	43 4 10	---
13	4	Output 4 Special Functions, Partition (Circle the ones to program)		
		Segment 1	Segment 2	
		1 "On" if output should time in minutes; "Off" if output times in seconds.	1 Partition 1	
		2 "On" if output should latch until a code is entered.	2 Partition 2	
		3 "On" if output should reset if a code is entered while it is being timed.	3 Partition 3	
		4 "On" if output should only trigger during a closed schedule.	4 Partition 4	
		5 "On" if output should only trigger during an open schedule.	5 Partition 5	
		6 "On" if the output should be inverted.	6 Partition 6	
		7 "On" if a trigger should be logged in the event buffer.	7 Partition 7	
			8 Partition 8	
14	4	Output 4 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	
15	4	Output 4 X-10 Address		
		Segment 1 Module Number	3	---
		Segment 2 House Code (See chart on page 8)	0	---
16	4	Output 5 Event, Zone, Time	43 5 10	---
17	4	Output 5 Special Functions, Partition (Circle the ones to program)		
		Segment 1	Segment 2	
		1 "On" if output should time in minutes; "Off" if output times in seconds.	1 Partition 1	
		2 "On" if output should latch until a code is entered.	2 Partition 2	
		3 "On" if output should reset if a code is entered while it is being timed.	3 Partition 3	
		4 "On" if output should only trigger during a closed schedule.	4 Partition 4	
		5 "On" if output should only trigger during an open schedule.	5 Partition 5	
		6 "On" if the output should be inverted.	6 Partition 6	
		7 "On" if a trigger should be logged in the event buffer.	7 Partition 7	
			8 Partition 8	

LOC	PAGE	DESCRIPTION				DEFAULT	DATA
18	4	Output 5 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		
19	4	Output 5 X-10 Address					
		Segment 1 Module Number				4	—
		Segment 2 House Code (See chart on page 8)				0	—
20	4	Output 6 Event, Zone, Time				43 6 10	— — —
21	4	Output 6 Special Functions, Partition (Circle the ones to program)					
		Segment 1				Segment 2	
		1	*On* if output should time in minutes; *Off* if output times in seconds.			1	Partition 1
		2	*On* if output should latch until a code is entered.			2	Partition 2
		3	*On* if output should reset if a code is entered while it is being timed.			3	Partition 3
		4	*On* if output should only trigger during a closed schedule.			4	Partition 4
		5	*On* if output should only trigger during an open schedule.			5	Partition 5
		6	*On* if the output should be inverted.			6	Partition 6
7	*On* if a trigger should be logged in the event buffer.			7	Partition 7		
8				8	Partition 8		
22	4	Output 6 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		
23	4	Output 6 X-10 Address					
		Segment 1 Module Number				5	—
		Segment 2 House Code (See chart on page 8)				0	—
24	4	Output 7 Event, Zone, Time				43 7 10	— — —
25	4	Output 7 Special Functions, Partition (Circle the ones to program)					
		Segment 1				Segment 2	
		1	*On* if output should time in minutes; *Off* if output times in seconds.			1	Partition 1
		2	*On* if output should latch until a code is entered.			2	Partition 2
		3	*On* if output should reset if a code is entered while it is being timed.			3	Partition 3
		4	*On* if output should only trigger during a closed schedule.			4	Partition 4
		5	*On* if output should only trigger during an open schedule.			5	Partition 5
		6	*On* if the output should be inverted.			6	Partition 6
7	*On* if a trigger should be logged in the event buffer.			7	Partition 7		
8				8	Partition 8		
26	4	Output 7 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		
27	4	Output 7 X-10 Address					
		Segment 1 Module Number				6	—
		Segment 2 House Code (See chart on page 8)				0	—

LOC	PAGE	DESCRIPTION	DEFAULT	DATA																																				
28	4	Output 8 Event, Zone, Time	43 8 10	---																																				
29	4	Output 8 Special Functions, Partition (Circle the ones to program)																																						
		<table border="1"> <thead> <tr> <th colspan="2">Segment 1</th> <th colspan="2">Segment 2</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>*On* if output should time in minutes; *Off* if output times in seconds.</td> <td>1</td> <td>Partition 1</td> </tr> <tr> <td>2</td> <td>*On* if output should latch until a code is entered.</td> <td>2</td> <td>Partition 2</td> </tr> <tr> <td>3</td> <td>*On* if output should reset if a code is entered while it is being timed.</td> <td>3</td> <td>Partition 3</td> </tr> <tr> <td>4</td> <td></td> <td>4</td> <td>Partition 4</td> </tr> <tr> <td>5</td> <td>*On* if output should only trigger during a closed schedule.</td> <td>5</td> <td>Partition 5</td> </tr> <tr> <td>6</td> <td>*On* if output should only trigger during an open schedule.</td> <td>6</td> <td>Partition 6</td> </tr> <tr> <td>7</td> <td>*On* if the output should be inverted.</td> <td>7</td> <td>Partition 7</td> </tr> <tr> <td></td> <td>*On* if a trigger should be logged in the event buffer.</td> <td>8</td> <td>Partition 8</td> </tr> </tbody> </table>	Segment 1		Segment 2		1	*On* if output should time in minutes; *Off* if output times in seconds.	1	Partition 1	2	*On* if output should latch until a code is entered.	2	Partition 2	3	*On* if output should reset if a code is entered while it is being timed.	3	Partition 3	4		4	Partition 4	5	*On* if output should only trigger during a closed schedule.	5	Partition 5	6	*On* if output should only trigger during an open schedule.	6	Partition 6	7	*On* if the output should be inverted.	7	Partition 7		*On* if a trigger should be logged in the event buffer.	8	Partition 8		
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7	*On* if the output should be inverted.	7	Partition 7																																					
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30	4	Output 8 Schedule																																						
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4	Schedule 4	8	Schedule 8																																					
31	4	Output 8 X-10 Address																																						
		Segment 1 Module Number	7	—																																				
		Segment 2 House Code (See chart on page 8)	0	—																																				
32	4	Schedule 1 Opening Time	8 - 0	— —																																				
33	4	Schedule 1 Closing Time	20 - 0	— —																																				
34	5	Schedule 1 Days (Circle the numbers to program)																																						
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35	5	Schedule 2 Opening Time	8 - 0	— —																																				
36	5	Schedule 2 Closing Time	20 - 0	— —																																				
37	5	Schedule 2 Days (Circle the numbers to program)																																						
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38	4	Schedule 3 Opening Time	8 - 0	— —																																				
39	4	Schedule 3 Closing Time	20 - 0	— —																																				
40	5	Schedule 3 Days (Circle the numbers to program)																																						
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41	4	Schedule 4 Opening Time	8 - 0	— —																																				
42	4	Schedule 4 Closing Time	20 - 0	— —																																				
43	5	Schedule 4 Days (Circle the numbers to program)																																						
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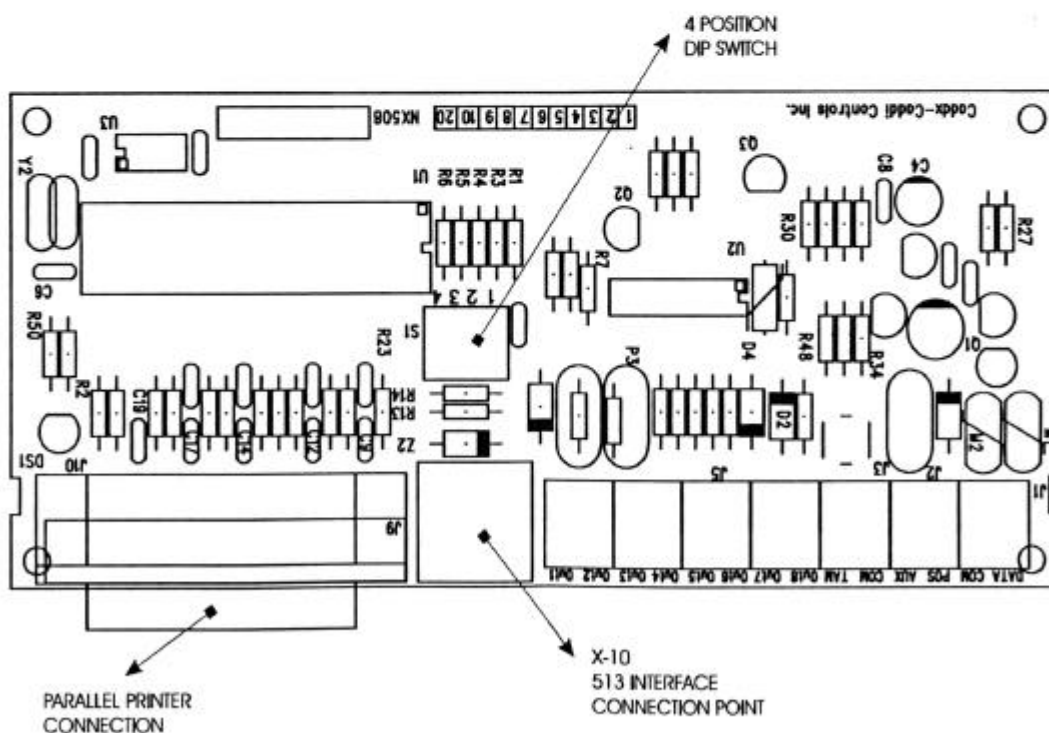
LOC	PAGE	DESCRIPTION	DEFAULT	DATA
44	4	Schedule 5 Opening Time	8 - 0	— —
45	4	Schedule 5 Closing Time	20 - 0	— —
46	5	Schedule 5 Days (Circle the numbers to program)		
		1 Sunday	5 Thursday	
		2 Monday	6 Friday	
		3 Tuesday	7 Saturday	
		4 Wednesday	8 Disabled on holidays	
47	4	Schedule 6 Opening Time	8 - 0	— —
48	4	Schedule 6 Closing Time	20 - 0	— —
49	5	Schedule 6 Days (Circle the numbers to program)		
		1 Sunday	5 Thursday	
		2 Monday	6 Friday	
		3 Tuesday	7 Saturday	
		4 Wednesday	8 Disabled on holidays	
50	4	Schedule 7 Opening Time	8 - 0	— —
51	4	Schedule 7 Closing Time	20 - 0	— —
52	5	Schedule 7 Days (Circle the numbers to program)		
		1 Sunday	5 Thursday	
		2 Monday	6 Friday	
		3 Tuesday	7 Saturday	
		4 Wednesday	8 Disabled on holidays	
53	4	Schedule 8 Opening Time	8 - 0	— —
54	4	Schedule 8 Closing Time	20 - 0	— —
55	5	Schedule 8 Days (Circle the numbers to program)		
		1 Sunday	5 Thursday	
		2 Monday	6 Friday	
		3 Tuesday	7 Saturday	
		4 Wednesday	8 Disabled on holidays	
56	5	January Holidays	0-0-0-0-0-0-0	— — — — —
57	5	February Holidays	0-0-0-0-0-0-0	— — — — —
58	5	March Holidays	0-0-0-0-0-0-0	— — — — —
59	5	April Holidays	0-0-0-0-0-0-0	— — — — —
60	5	May Holidays	0-0-0-0-0-0-0	— — — — —
61	5	June Holidays	0-0-0-0-0-0-0	— — — — —
62	5	July Holidays	0-0-0-0-0-0-0	— — — — —
63	5	August Holidays	0-0-0-0-0-0-0	— — — — —
64	5	September Holidays	0-0-0-0-0-0-0	— — — — —
65	5	October Holidays	0-0-0-0-0-0-0	— — — — —
66	5	November Holidays	0-0-0-0-0-0-0	— — — — —
67	5	December Holidays	0-0-0-0-0-0-0	— — — — —

LOC	PAGE	DESCRIPTION										
68	6	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
69	5	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	5	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	6	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	6	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

LOC	PAGE	DESCRIPTION										
73	6	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
74	6	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	6	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	6	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	6	CODES 91-99 OUTPUT SELECTION (Circle the numbers to program)										
		User	91	92	93	94	95	96	97	98	99	
		Output #1	1	1	1	1	1	1	1	1	1	
		Output #2	2	2	2	2	2	2	2	2	2	
		Output #3	3	3	3	3	3	3	3	3	3	
		Output #4	4	4	4	4	4	4	4	4	4	
		Output #5	5	5	5	5	5	5	5	5	5	
		Output #6	6	6	6	6	6	6	6	6	6	
		Output #7	7	7	7	7	7	7	7	7	7	
		Output #8	8	8	8	8	8	8	8	8	8	

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 NX-508 board.
POS	Connect to control panel AUX POWER + terminal. This terminal supplies power to the NX-508 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 NX-8 or NX-320 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 NX-508, will continue to operate. The NX-508 will report this problem to the control for display on the keypad as an expander power trouble.
Out 1- 8	Open Collector outputs capable of up to 100 mA.

NX-508 LAYOUT



SPECIFICATIONS

NX-508 DIMENSIONS	1 " Wide 6 " High 3 " Deep
OPERATING POWER	12 VDC, Supplied from NX-8 or NX-320
AUXILIARY POWER	Supplied by NX-8 or NX-320 Limited to 100 mA by NX-508
CURRENT DRAW	10 mA with no outputs active 25 mA with all outputs active + current draw of any device attached to NX-508
OPERATING TEMPERATURE	32 to 120 degrees F
SHIPPING WEIGHT	1 lb.

FIVE YEAR LIMITED WARRANTY

CADDX CONTROLS, INC. GUARANTEES THIS PRODUCT AGAINST DEFECTIVE PARTS AND WORKMANSHIP FOR TWENTY-FOUR (24) MONTHS FROM DATE OF MANUFACTURING. IF ANY DEFECT APPEARS DURING THE WARRANTY PERIOD, RETURN IT TO CADDX POSTAGE PREPAID. THE UNIT WILL BE REPAIRED AND RETURNED AT NO CHARGE.

FOR THE REMAINING 36 MONTHS OF WARRANTY, THE CHARGE TO REPAIR OR REPLACE THIS MODULE WILL NOT EXCEED \$10.00 PLUS SHIPPING AND HANDLING.

CADDX ASSUMES NO LIABILITY FOR CONSEQUENTIAL OR INDIRECT DAMAGE AND ACCEPTS NO RESPONSIBILITY FOR REPAIRING DAMAGE TO THE PRODUCT CAUSED BY MISUSE, CARELESS HANDLING, OR WHERE REPAIRS HAVE BEEN MADE BY OTHERS.

NO OTHER GUARANTEE, WRITTEN OR VERBAL, IS AUTHORIZED BY OR ON BEHALF OF CADDX CONTROLS, INC., GLADEWATER, TEXAS.

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NX-508 INSTALLATION MANUAL
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