

CADDX 9040 OPERATOR

General Description

The CADDX 9040 Operator expansion board is a versatile microcomputer controlled module that may be added to Ranger control panels. The Operator converts a telephone to a system keypad and allows system functions to be accessed via touchtone telephone on-premise or off-site. There are 32 separate zone descriptions that may be programmed to fit the owner's need and in addition the X-10 function (Requires Powerhouse™ 513 Interface Module) has 16 outputs that have a programmable description. Each zone/output description is programmable using a variety of 213 words from the Library List (see page 5).

Buss Address

Buss address is at Location 51 with 0 - 7 addresses for each location.

Device Number	Location 51
1	0
2	1
3	2
4	3
5	4
6	5
7	6

THE OPERATOR TERMINAL DESCRIPTION

TERMINAL	DESCRIPTION
+12	12 VDC power input from control panel. (12 volts DC power at 110 mA)
GND	Auxiliary power negative (must be home run to control panel).
DATA	Keypad bus data terminal (must be home run to control panel).
CLK	Keypad bus clock terminal (must be home run to control panel).
R1	(R1) House Telephone Ring (gray)
T1	(T1) House Telephone Tip (brown)
R	Connect to R1 on control panel
T	Connect to T1 on control panel

PROGRAM MODE

The program mode is accessed by telephone by pressing the "Go To Program Switch" on the 9040. Once in the program mode, the Operator will read the programmed data for location 000 (Zone 1 message).

NOTE: You must always use the house (Touchtone) telephone to program the 9040.

The user then programs a word by entering the number associated with that word from the Library (page 5) followed by star [*] key. The Operator will then read back the message entered thus far. Continue with the next word for that location (max 8 words for each location). To end the message, press [#] key. If programming error is made, return to that location by entering the location number followed by [#] key and re-enter programmed message. Data is changed by entering a number (from Library) followed by star [*] key (* = data enter). When [#] is pressed, the Operator will increment to the next location and "speak" that location.

To advance from location 0 through 66 (one location number at a time), press the [#] key. This increments to next location. The Operator will then "speak" that location. To go to a specific location, enter the location number followed by [#] key.

IMPORTANT: The following are reserved function codes:

[9][1][0][#] load factory defaults [9][3][0][#] exit program mode

PROGRAMMING THE ZONES AND OUTPUTS

Locations 0 thru 31 contain the programming data for voice descriptions (characteristics) of zones 1 - 32. Each of the 32 locations/zones have a programmable message of 8 words maximum for each location.

Locations 32 - 47 contain programmable data for voice descriptions (characteristics) of the sixteen possible X-10 outputs. These locations have a programmable message of 8 words maximum for each location.

Location 48 - Number of rings the Operator will wait before answering the telephone (valid entry 0-15).

Location 49 - House address for X-10 device. Valid entry is 1 for A - through - 16 for P.

Location 50 - Zone types should match zone types in your control panel (9000E models are updated automatically).

Location 51 - Only applies to 9000E and is the address of this device (normally left at 0).

Location 52 - Enables Keypad functions (Fire, Medical, and Panic). Program a "0" to disable these features. Factory default is "1", these features enabled. See Operator's Manuals for use of these features.

Location 53-67 - The codes (4 digit) are used to access the Operator. If Operator is installed, all code changes must be done via phone keypad (except on 9000E) to insure identical codes with the Operator and main system panel. The Operator will automatically change codes in the main panel, but if codes are not changed through the Operator, the Operator will not recognize them. Changes need be done through the Operator for this purpose. (Note: These locations are updated from the control arm/disarm codes on 9000E models.)

On initial installation, you must program all codes to match the codes in the control panel except on 9000E.

NOTE: THE OPERATOR IS NOT COMPATIBLE WITH PARTITIONED SYSTEMS.

LIBRARY (NAME & NUMBER)

ZERO	0	CLOSE	57	MEDICAL	114	THE	171
ONE	1	CLOSET	58	MEMORY	115	THIS	172
TWO	2	CLOSING	59	MENU	116	TIME	173
THREE	3	CODE	60	MESSAGE	117	TROUBLE	174
FOUR	4	COMPLETE	61	MODE	118	TURN	175
FIVE	5	CORRECT	62	MORE	119	TV	176
SIX	6	DATE	63	MOTION	120	UNBYPASS	177
SEVEN	7	DELAY	64	MUST	121	UNBYPASSED	178
EIGHT	8	DEN	65	NEW	122	UP	179
NINE	9	DETECTOR	66	NORTH	123	USE	180
TEN	10	DIGIT	67	NOT	124	UTILITY	181
ELEVEN	11	DINING	68	NOTE7 (TONE)	125	VALID	182
TWELVE	12	DISARM	69	NOTE8 (TONE)	126	VAULT	183
THIRTEEN	13	DOOR	70	NOW	127	WAIT	184
FOURTEEN	14	DOWN	71	NUMBER	128	WAREHOUSE	185
FIFTEEN	15	DURESS	72	NURSERY	129	WEST	186
SIXTEEN	16	EAST	73	OFF	130	WHEN	187
SEVENTEEN	17	EMERGENCY	74	OFFICE	131	WINDOW	188
EIGHTEEN	18	ENTER	75	OLD	132	WINDOWS	189
NINETEEN	19	EXIT	76	ON	133	WIRELESS	190
TWENTY	20	EXPANDER	77	OPEN	134	YARD	191
THIRTY	21	EXTERIOR	78	OPENING	135	YOU	192
FORTY	22	FAILURE	79	OUTPUT	136	YOUR	193
FIFTY	23	FOLLOWED	80	PANIC	137	ZONE	194
SIXTY	24	FAMILY	81	PARTITION	138	ERROR	195
SEVENTY	25	FAULT	82	PHONE	139		
EIGHTY	26	FAULTED	83	PLEASE	140		
NINETY	27	FINISHED	84	POINT	141		
HUNDRED	28	FIRE	85	POUND	142		
A	29	FORCE	86	POWER	143		
ACCEPTED	30	FRONT	87	PRESS	144		
ACCESS	31	GAME	88	READY	145		
ACTIVE	32	GARAGE	89	REAR	146		
ALARM	33	GAS	90	REMOVE	147		
ALL	34	GLASSBREAK	91	RESET	148		
AND	35	GROUP	92	ROOM	149		
AREA	36	GUEST	93	SAFE	150		
ARM	37	HALL	94	SECURE	151		
ARMED	38	HANG	95	SECURITY	152		
ARMING	39	HAD	96	SENSOR	153		
ATTIC	40	HAVE	97	SET	154		
AUDIO	41	HEAT	98	SHOCK	155		
AUTHORIZED	42	HELP	99	SHOP	156		
BACK	43	HOME	100	SIDE	157		
BASEMENT	44	INSERT	101	SIREN	158		
BATHROOM	45	INSTANT	102	SKYLIGHT	159		
BATTERY	46	INTERIOR	103	SLIDING	160		
BE	47	IS	104	SMOKE	161		
BEDROOM	48	KEY	105	SOUTH	162		
BY	49	KITCHEN	106	STAIRS	163		
BYPASS	50	LIBRARY	107	STAR	164		
BYPASSED	51	LIGHT	108	STATUS	165		
CALL	52	LINE	109	STORAGE	166		
CAN	53	LIVING	110	STUDY	167		
CHANGE	54	LOST	111	SYSTEM	168		
CHIME	55	LOW	112	TAMPER	169		
CHOOSE	56	MASTER	113	TEMPERATURE	170		

PROGRAMMING WORKSHEETS

LOCATION	DESCRIPTION	DATA	DATA	DATA	DATA	DATA	DATA	DATA
0	ZONE 1							
1	ZONE 2							
2	ZONE 3							
3	ZONE 4							
4	ZONE 5							
5	ZONE 6							
6	ZONE 7							
7	ZONE 8							
8	ZONE 9							
9	ZONE 10							
10	ZONE 11							
11	ZONE 12							
12	ZONE 13							
13	ZONE 14							
14	ZONE 15							
15	ZONE 16							
16	ZONE 17							
17	ZONE 18							
18	ZONE 19							
19	ZONE 20							
20	ZONE 21							
21	ZONE 22							
22	ZONE 23							
23	ZONE 24							
24	ZONE 25							
25	ZONE 26							
26	ZONE 27							
27	ZONE 28							
28	ZONE 29							
29	ZONE 30							
30	ZONE 31							
31	ZONE 32							
32	OUTPUT 1							
33	OUTPUT 2							
34	OUTPUT 3							
35	OUTPUT 4							
36	OUTPUT 5							
37	OUTPUT 6							
38	OUTPUT 7							
39	OUTPUT 8							
40	OUTPUT 9							
41	OUTPUT 10							
42	OUTPUT 11							
43	OUTPUT 12							
44	OUTPUT 13							
45	OUTPUT 14							
46	OUTPUT 15							
47	OUTPUT 16							
48	NUMBER OF RINGS TO ANSWER							(DEFAULT 8)
49	X-10 HOUSE CODE							(DEFAULT 1)

LOCATION	DESCRIPTION	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA
50	ZONE TYPES (8980E - 8800E ONLY) (DEFAULT 35886668)								
51	BUSS ADDRESS								(DEFAULT 0)
52	KEYPAD PANIC ENABLE (1 DIGIT)								(DEFAULT 1)
53	MASTER ACCESS CODE (4 DIGIT)								(DEFAULT 1 2 3 4)
54	ACCESS CODE 2 (4 DIGIT)								
55	ACCESS CODE 3 (4 DIGIT)								
56	ACCESS CODE 4 (4 DIGIT)								
57	ACCESS CODE 5 (4 DIGIT)								
58	ACCESS CODE 6 (4 DIGIT)								
59	ACCESS CODE 7 (4 DIGIT)								
60	ACCESS CODE 8 (4 DIGIT)								
61	ACCESS CODE 9 (4 DIGIT)								
62	ACCESS CODE 10 (4 DIGIT)								
63	ACCESS CODE 11 (4 DIGIT)								
64	ACCESS CODE 12 (4 DIGIT)								
65	ACCESS CODE 13 (4 DIGIT)								
66	ACCESS CODE 14 (4 DIGIT)								
67	ACCESS CODE 15 (4 DIGIT)								

OPERATOR TERMINAL DRAWING

