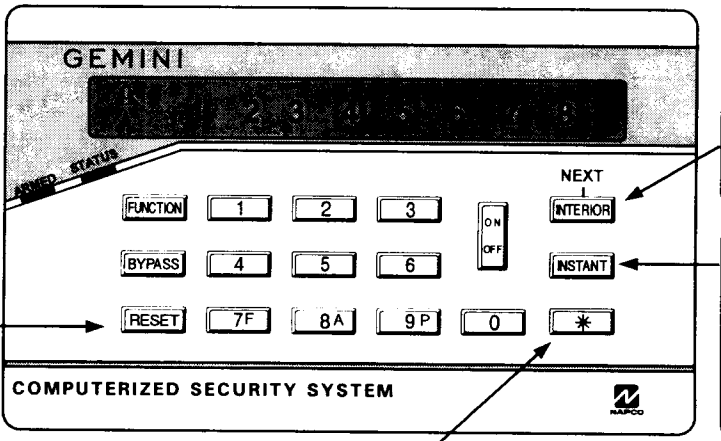
NAPCO®

GEM-P800 Programming Instructions

DEALER PROGRAM MODE - KEYPAD KEY DEFINITION



Scroll Key
Use this key to scroll through data that has been entered in Programming Blocks.

Blank Key
Press this key to disable all features within a LED type Programming Block or to blank out digits in a Direct Entry type Programming Block.

Set Key
Press this key before entering a Programming Block Number.

Hexadecimal Data Entry
To Enter a hexadecimal digit enter the following:

[*] [1] = A [*] [4] = D
[*] [2] = B [*] [5] = E
[*] [3] = C [*] [6] = F

Entering Dealer Program Mode

Enter [FUNCTION] [8A] + Dealer Code (4) (5) (6) (7) [ON/OFF] →

ARMED	ON	Indicates the panel is in Dealer Program Mode. The panel is ready for a programing block to be entered.
READY	OFF	
TROUBLE	FLASHING	

Exiting Dealer Program Mode

Enter [FUNCTION] [8A] + Dealer Code (4) (5) (6) (7) [ON/OFF] →

ARMED	FLASHING	Indicates the panel is Ready to exit Dealer Program Mode. Enter the Dealer Code to exit.
READY	FLASHING	
TROUBLE	FLASHING	

Note: After 15 minutes of keypad inactivity the keypad will emit a steady tone indicating the panel has been left in Dealer Program Mode. Enter Dealer Code to exit or press the [RESET] key to return to Dealer Program mode.

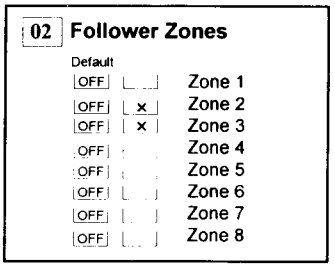
Types of Programming Blocks

LED Programming Block

Enable features by pressing the Zone LED number associated with the feature; the LED will turn ON. To disable a feature press the key again; the LED will turn OFF. To disable all features within a LED Type Programming Block use the [INSTANT] key; all LEDs will turn OFF.

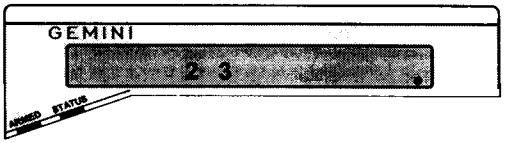
(1) LED Programming Block Example
Program zones 2 and 3 as *Follower Zones.*

1. To Enter Programming Block 02, press [RESET](Beep)[0][2](Beep)
2. Press the [2] key to select zone 2.
3. Press the [3] key to select zone 3.



LED Type Programming Block

Zone 2 and Zone 3 LEDs are ON indicating that zones 2 and 3 have been programmed as follower zones.

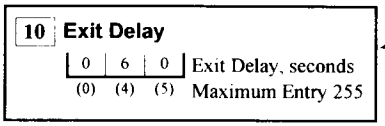


Direct Entry Programming Block

Enter data directly. For hexadecimal entries of A-F, use the [*] key + 1-6 keys, respectively. Use the [INSTANT] key to blank out digits in Direct Entry type programming blocks. Default values are shown in parentheses.

(1) Direct Entry Programming Example 1
Program the panel for a 60 second *Exit Delay*

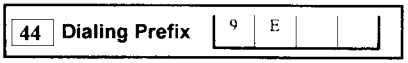
1. Press [*](Beep)[1][0](Beep)
2. Press [0][6][0]

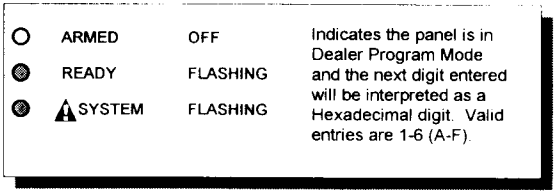


Direct Entry Type Programming Block

(2) Direct Entry Programming Example 2
(Hexadecimal data entry)
Program *Telephone Prefix Number* with a 9E.

1. Press [RESET] (Beep)[4][4](Beep)
2. Press [9P]
3. Press [*]
4. Press [5]





Viewing Data in Programming Blocks

To view data within a programming Block enter the Program Block Number, then press the INTERIOR key, continue pressing the INTERIOR key until all digits within the Programming Block have been viewed. Data will be displayed in the binary format shown in the table below:

Value	Data Displayed	Value	Data Displayed
*0/Blank		8	4
1	1	9	1 4
2	2	*A/0	2 4
3	1 2	B	1 2 4
4	3	C	3 4
5	1 3	D	1 3 4
6	2 3	E	2 3 4
7	1 2 3	F	1 2 3 4

* **Note:** In the following Programming Blocks data that has been entered as a '0' will be displayed as an 'A': *Subscriber ID Numbers, Phone Numbers, Pager Leading and Trailing digits and report codes.*

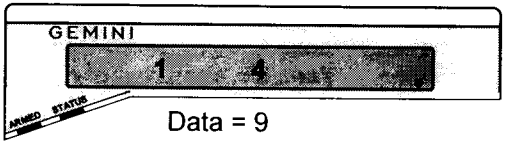
Zone #	Bit Value
1	1
2	2
3	4
4	8

Example: Viewing the Dialing Prefix

A Dialing Prefix of 9E has been programmed at Programming Block Number 44 (outside access number). Follow the steps below to view the data:

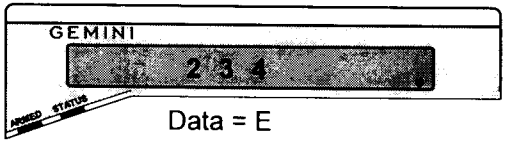
→ 44 **Dialing Prefix** | 9 | E | | |

① Press RESET 4 4 to enter Programming Block 44. The 1st digit of Programming Block 44 is displayed.



Data = 9

② Press the INTERIOR key to view the 2nd digit.



Data = E

For Technical Assistance, Contact the Napco Toll Free Helpline ☎
(800) 645-9440

Zone Features

00 Exit/Entry

Default

- [■] [ ] Zone 1
- [OFF] [ ] Zone 2
- [OFF] [ ] Zone 3
- [OFF] [ ] Zone 4
- [OFF] [ ] Zone 5
- [OFF] [ ] Zone 6
- [OFF] [ ] Zone 7
- [OFF] [ ] Zone 8

01 Home/Away with Delay

Default

- [OFF] [ ] Zone 1
- [OFF] [ ] Zone 2
- [OFF] [ ] Zone 3
- [OFF] [ ] Zone 4
- [OFF] [ ] Zone 5
- [OFF] [ ] Zone 6
- [OFF] [ ] Zone 7
- [OFF] [ ] Zone 8

02 Exit/Entry Follower

Default

- [OFF] [ ] Zone 1
- [OFF] [ ] Zone 2
- [OFF] [ ] Zone 3
- [OFF] [ ] Zone 4
- [OFF] [ ] Zone 5
- [OFF] [ ] Zone 6
- [OFF] [ ] Zone 7
- [OFF] [ ] Zone 8

03 Auto-Bypass Reentry

Default

- [OFF] [ ] Zone 1
- [OFF] [ ] Zone 2
- [OFF] [ ] Zone 3
- [OFF] [ ] Zone 4
- [OFF] [ ] Zone 5
- [OFF] [ ] Zone 6
- [OFF] [ ] Zone 7
- [OFF] [ ] Zone 8

04 24 Hour Protection

Default

- [OFF] [ ] Zone 1
- [OFF] [ ] Zone 2
- [OFF] [ ] Zone 3
- [OFF] [ ] Zone 4
- [OFF] [ ] Zone 5
- [OFF] [ ] Zone 6
- [OFF] [ ] Zone 7
- [OFF] [ ] Zone 8

05 Loop Response 40 ms

Default

- [ON] [ ] Zone 1
- [OFF] [ ] Zone 2
- [OFF] [ ] Zone 3
- [OFF] [ ] Zone 4
- [OFF] [ ] Zone 5
- [OFF] [ ] Zone 6
- [OFF] [ ] Zone 7
- [OFF] [ ] Zone 8

06 Open Circuit

Default

- [OF] [ ] Zone 1
- [OFF] [ ] Zone 2
- [OFF] [ ] Zone 3
- [OFF] [ ] Zone 4
- [OFF] [ ] Zone 5
- [OFF] [ ] Zone 6
- [OFF] [ ] Zone 7
- [OFF] [ ] Zone 8

07 Burg (Steady) Output

Default

- [■] [ ] Zone 1
- [■] [ ] Zone 2
- [■] [ ] Zone 3
- [■] [ ] Zone 4
- [■] [ ] Zone 5
- [■] [ ] Zone 6
- [■] [ ] Zone 7
- [■] [ ] Zone 8

08 PGM Output

Default

- [■] [ ] Zone 1
- [■] [ ] Zone 2
- [■] [ ] Zone 3
- [■] [ ] Zone 4
- [■] [ ] Zone 5
- [■] [ ] Zone 6
- [■] [ ] Zone 7
- [■] [ ] Zone 8

System Times

10 Exit Delay

[ ][ ][ ] Exit Delay, seconds
(0) (4) (5) Maximum Entry 255

11 Entry Delay

[ ][ ][ ] Entry Delay, seconds
(0) (3) (0) Maximum Entry 255

12 Burg (Steady) Output Time-out

[ ][ ][ ] Bell Time-out, minutes
(0) (0) (5) Maximum Entry 255

13 Fire (Pulsed) Output Time-out

[ ][ ][ ] Bell Time-out, minutes
(0) (0) (0) Maximum Entry 255

14 Test Timer Interval

[ ][ ][ ] Test Timer, days
(0) (0) (1) Maximum Entry 255

15 Line Cut Time-to-Fail (Disabled =000)

[ ][ ][ ] Line Cut Time-to-Fail, seconds
(0) (0) (0) **Enable Feature** - Valid Entries 10 - 255

16 Wireless Supervisory Timer

[ ][ ] Supervisory Timer, hours
(1) (2) Maximum Entry 26

17 Wireless Smoke Supervisory Timer

[ ] Smoke Supervisory Timer, hours
(8) Maximum Entry 8

System Features

20 Keypad Features

Default
OFF [ ] Zn 1 LED ON = Keypad Fire ([7F][*])
OFF [ ] Zn 2 LED ON = Keypad AUX ([8A][*])
■ [ ] Zn 3 LED ON = Keypad Panic ([9P][*])
OFF [ ] Zn 4 LED ON = Ambush (8th User Code)

21 Keypad Features

Default
■ [ ] Zn 1 LED ON = Audible panic
OFF [ ] Zn 2 LED ON = Exit/Entry with Urgency
■ [ ] Zn 3 LED ON = Display Bypass (ARMED)
OFF [ ] Zn 4 LED ON = Reserved

22 Miscellaneous Features

Default
OFF [ ] Zn 1 LED ON = Abort Delay
■ [ ] Zn 2 LED ON = Easy Exit ([FUNCTION][0])
■ [ ] Zn 3 LED ON = Swinger Shutdown
OFF [ ] Zn 4 LED ON = Bell on Line Cut (Armed)

23 PGM Features

Default
OFF [ ] Zn 1 LED ON = Audio Verification
OFF [ ] Zn 2 LED ON = Access Output ([FUNCTION][3])
OFF [ ] Zn 3 LED ON = Follow Keypad Sounder
OFF [ ] Zn 4 LED ON = Key Fob Chirp

24 PGM Features

Default
OFF [ ] Zn 1 LED ON = Fire
OFF [ ] Zn 2 LED ON = AUX
OFF [ ] Zn 3 LED ON = Panic
OFF [ ] Zn 4 LED ON = Test Timer

25 PGM Features

Default
OFF [ ] Zn 1 LED ON = AC Fail
OFF [ ] Zn 2 LED ON = Low Battery
OFF [ ] Zn 3 LED ON = Fire Trouble
OFF [ ] Zn 4 LED ON = Armed

Telephone Number 1 Programming

30 Subscriber ID Number

31 Telephone Number 1

Note: A fixed Dial Tone Detection (E) is included prior to the *Dialing Prefix* (Block Number 44). Programming an E is not required for Telco 1, Telco 2 and Telco 3. If dial tone detection is not desired select *No Dial Tone Detection* in Communicator Features (Block Number 46). Program a D if a 4 second delay is required.

32 Receiver Format

[1] Ademco Slow
[2] Radionics Slow
[3] Silent Knight Fast
[4] Universal High Speed
[5] Reserved
[6] Point ID
[7] Pager

(4)

33 Receiver Options

Default

- ■ Zn 1 LED ON = 2300 Hz Handshake/Kissoff
- OFF Zn 2 LED ON = Sumcheck
- OFF Zn 3 LED ON = Single Digit
- OFF Zn 4 LED ON = No Handshake/Pager Extend

34 Zone Report, Telco 1

Default

- OFF Zone 1
- OFF Zone 2
- OFF Zone 3
- OFF Zone 4
- OFF Zone 5
- OFF Zone 6
- OFF Zone 7
- OFF Zone 8

35 Zone Restore, Telco 1

Default

- OFF Zone 1
- OFF Zone 2
- OFF Zone 3
- OFF Zone 4
- OFF Zone 5
- OFF Zone 6
- OFF Zone 7
- OFF Zone 8

36 System Reporting, Telco 1

Default

- OFF Zn 1 LED ON = Keypad Fire (7F *)
- OFF Zn 2 LED ON = Keypad AUX (8A *)/Ambush
- ■ Zn 3 LED ON = Keypad Panic (9P *)
- OFF Zn 4 LED ON = Test Timer

37 System Reporting, Telco 1

Default

- OFF Zn 1 LED ON = AC Fail Report
- ■ Zn 2 LED ON = Low Battery Report
- OFF Zn 3 LED ON = Fire Trouble Report
- ■ Zn 4 LED ON = Fire Report

38 System Restores, Telco 1

Default

- OFF Zn 1 LED ON = AC Restore Report
- OFF Zn 2 LED ON = Battery Restore Report
- OFF Zn 3 LED ON = Fire Tbl Restore Report
- OFF Zn 4 LED ON = Fire Restore Report

39 Opening Closing Report, Telco 1

Default

- OFF Zn 1 LED ON = User 1 Reporting
- OFF Zn 2 LED ON = User 2 Reporting
- OFF Zn 3 LED ON = User 3 Reporting
- OFF Zn 4 LED ON = User 4 Reporting
- OFF Zn 5 LED ON = User 5 Reporting
- OFF Zn 6 LED ON = User 6 Reporting
- OFF Zn 7 LED ON = User 7 Reporting
- OFF Zn 8 LED ON = User 8 Reporting

Backup Telephone Number Programming

40 **Subscriber ID Number (Telephone Number 2)** | | | | |

41 **Telephone Number 2** | | | | | | | | | | | | | | | | |

Note: A fixed Dial Tone Detection (E) is included prior to the *Dialing Prefix* (Block Number 44). Programming an E is not required for Telco 1, Telco 2 and Telco 3. If dial tone detection is not desired select *No Dial Tone Detection* in Communicator Features (Block Number 46). Program a D if a 4 second delay is required.

42 **Receiver Format**

[1] Ademco Slow
[2] Radionics Slow
[3] Silent Knight Fast
[4] Universal High Speed
[5] Reserved
[6] Point ID
[7] Pager

→ | | (4)

43 **Receiver Options**

Default

■ | | Zn 1 LED ON = 2300 Hz Handshake/Kissoff
OFF | | Zn 2 LED ON = Sumcheck
OFF | | Zn 3 LED ON = Single Digit
OFF | | Zn 4 LED ON = No Handshake

Communicator Features

44 **Dialing Prefix** | | | | |

Note: Dialing Prefix for Telco 1, Telco 2 & Telco 3.

45 **Communicator Features**

Default

■ | | Zn 1 LED ON = Communicator Enabled
■ | | Zn 2 LED ON = DTMF w/ Rotary Back up
OFF | | Zn 3 LED ON = DTMF only
OFF | | Zn 4 LED ON = Backup to Telco 2

46 **Communicator Features**

Default

OFF | | Zn 1 LED ON = No Dial Tone Detection
OFF | | Zn 2 LED ON = 2:1 Rotary Dialing
OFF | | Zn 3 LED ON = Reserved
OFF | | Zn 4 LED ON = Reserved

Pager Programming

47 **Leading Digits** | | | | | | | | | | | | | | | | |

(0) (0) (0) (0)

| | | | | | | | | | | | | | | | | |

48 **Trailing Digits** | | | | | | | | | | | |

(C)

49 **Pager Option**

Default

OFF | | Zn 1 LED ON = Skip Alarm Data
OFF | | Zn 2 LED ON = Reserved
OFF | | Zn 3 LED ON = Reserved
OFF | | Zn 4 LED ON = Reserved

Note:
C = TouchTone #. This is the typical terminating digit for most paging systems. Recommended but may not be required by paging system.
D = 2 second delay.

Telephone Number 3 Programming

50 Subscriber ID Number

51 Telephone Number 3

Note: A fixed Dial Tone Detection (E) is included prior to the *Dialing Prefix* (Block Number 44). Programming an E is not required for Telco 1, Telco 2 and Telco 3. If dial tone detection is not desired select *No Dial Tone Detection* in Communicator Features (Block Number 46). Program a D if a 4 second delay is required.

52 Receiver Format

[1] Ademco Slow
[2] Radionics Slow
[3] Silent Knight Fast
[4] Universal High Speed
[5] Reserved
[6] Point ID
[7] Pager

(4)

53 Receiver Options

Default

- [■] Zn 1 LED ON = 2300 Hz Handshake/Kissoff
- [OFF] Zn 2 LED ON = Sumcheck
- [OFF] Zn 3 LED ON = Single Digit
- [OFF] Zn 4 LED ON = No Handshake/Pager Extend

54 Zone Report, Telco 3

Default

- [OFF] Zone 1
- [OFF] Zone 2
- [OFF] Zone 3
- [OFF] Zone 4
- [OFF] Zone 5
- [OFF] Zone 6
- [OFF] Zone 7
- [OFF] Zone 8

55 Zone Restore, Telco 3

Default

- [OFF] Zone 1
- [OFF] Zone 2
- [OFF] Zone 3
- [OFF] Zone 4
- [OFF] Zone 5
- [OFF] Zone 6
- [OFF] Zone 7
- [OFF] Zone 8

56 System Reporting, Telco 3

Default

- [OFF] Zn 1 LED ON = Keypad Fire ([7F] [*])
- [OFF] Zn 2 LED ON = Keypad AUX ([8^] [*])/Ambush
- [OFF] Zn 3 LED ON = Keypad Panic ([9P] [*])
- [OFF] Zn 4 LED ON = Test Timer

57 System Reporting, Telco 3

Default

- [OFF] Zn 1 LED ON = AC Fail Report
- [OFF] Zn 2 LED ON = Low Battery Report
- [OFF] Zn 3 LED ON = Fire Trouble Report
- [OFF] Zn 4 LED ON = Fire Report

58 System Restores, Telco 3

Default

- [OFF] Zn 1 LED ON = AC Restore Report
- [OFF] Zn 2 LED ON = Battery Restore Report
- [OFF] Zn 3 LED ON = Fire Tbl Restore Report
- [OFF] Zn 4 LED ON = Fire Restore Report

59 Opening Closing Report, Telco 3

Default

- [OFF] Zn 1 LED ON = User 1 Reporting
- [OFF] Zn 2 LED ON = User 2 Reporting
- [OFF] Zn 3 LED ON = User 3 Reporting
- [OFF] Zn 4 LED ON = User 4 Reporting
- [OFF] Zn 5 LED ON = User 5 Reporting
- [OFF] Zn 6 LED ON = User 6 Reporting
- [OFF] Zn 7 LED ON = User 7 Reporting
- [OFF] Zn 8 LED ON = User 8 Reporting

Report Codes

60 Zone Report Codes

Zone 1 Alarm Code (3)

Zone 2 Alarm Code (3)

Zone 3 Alarm Code (3)

Zone 4 Alarm Code (3)

Zone 5 Alarm Code (3)

Zone 6 Alarm Code (3)

Zone 7 Alarm Code (3)

Zone 8 Alarm Code (3)

Note: The second digit of the *Report Code* is the zone number of the zone that is reporting. For example zone 5 report code (default of 3) would be 35.

61 Point ID Report Codes

Zone 1 Alarm Code (3)

Zone 2 Alarm Code (3)

Zone 3 Alarm Code (3)

Zone 4 Alarm Code (3)

Zone 5 Alarm Code (3)

Zone 6 Alarm Code (3)

Zone 7 Alarm Code (3)

Zone 8 Alarm Code (3)

1	FIRE
2	PANIC
3	BURGLARY
4	HOLDUP
5	GENERAL ALARM
6	RESERVED
7	GAS ALARM
8	HEAT ALARM
9	RESERVED
A	AUXILIARY
B	24 HOUR ALARM

62 Zone Restore Code

Zone 1,2,3,4,5 & 6 Restore Code (E)

63 System Report Codes

Keypad Fire ([7P] [*]) (1) (1)

Keypad AUX ([8A] [*]) (2) (3)

Keypad Panic ([9P] [*]) (2) (1)

Test Timer (F) (F)

AC Fail (F) (9)

Low Battery (F) (8)

64 System Restore Code

(E)

65 Opening and Closing Codes

Closing Code (C)

Opening Code (B)

66 Ambush Report Code

Ambush Code (2) (2)

67 Fire Report Codes

Fire Trouble (F) (1)

Fire (1) (1)

Wireless

Transmitters	RF ID #	Point
71 Zone 1		
72 Zone 2		
73 Zone 3		
74 Zone 4		
75 Zone 5		
76 Zone 6		
77 Zone 7		
78 Zone 8		

Enter the RF ID# located on the wireless transmitters, Key Fob and Smoke Detector labels.

RF ID # XXXXXX:X

Key Fobs	RF ID #	AUX 1 AUX 2
81 Key Fob 1		
82 Key Fob 2		
83 Key Fob 3		
84 Key Fob 4		

AUX 1 & 2 Programming

1 Panic
2 AUX
3 Bell ON
4 PGM
5 Instant
6 Access on PGM

Smoke Detectors	RF ID #
85 Smoke 1	
86 Smoke 2	
87 Smoke 3	
88 Smoke 4	

Hexadecimal Data Entry

To Enter a hexadecimal digit enter the following:

[*] [1] = A	[*] [4] = D
[*] [2] = B	[*] [5] = E
[*] [3] = C	[*] [6] = F

Programming Example

Map point 2 of a window door transmitter, with RF ID# 0012B0:0 to Zone 3.

1 Enter Dealer Mode.
2 Enter [RESET] (beeps) [7F] [3] (beeps)
3 Enter [0] [0] [1] [2] [*] [2] [0] [0]
4 Enter [2] (beeps)

Hexadecimal B Entry

Note If the RF ID# in step 3 is not entered correctly the keypad will emit a 1 second tone indicating incorrect entry. Repeat steps 2 - 4 above.

Downloading

90 Callback Telephone Number

91 Ring Count

(0) (9) Maximum Entry 15

92 Downloading Features

Default

ON — Zn 1 LED ON = Ring Method
ON — Zn 2 LED ON = Answering Machine override
ON — Zn 3 LED ON = Command 6 Download (FUNCTION 6)
OFF — Zn 4 LED ON = Reserved

Dealer Programming

94 Dealer Code

(4) (5) (6) (7)

95 User 1 Code

(1) (2) (3) (4)

96 Dealer Options

Default

OFF — Zn 1 LED ON = Dealer Code Lockout
OFF — Zn 2 LED ON = User 1 Code Lockout
OFF — Zn 3 LED ON = Household Fire
OFF — Zn 4 LED ON = Fire Trouble on Fire LED

D.R.

GEM-P800 WIRING DIAGRAM

(REFER TO INSTALLATION INSTRUCTIONS WI850)

This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72-1993 (National Fire Protection Association Batterymarch Park, Quincy MA 02269). and local codes. Information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment. UL Listed Energy Cable is required.

E1 + RED — RECHARGEABLE BATTERY 12 VDC 4AH

E2 – BLACK

RESIDENTIAL BURG (4 HOUR STANDBY)

COMBINED STANDBY = 500 mA BELL = 2.0 AMP

RESIDENTIAL FIRE (4 HOUR STANDBY)

COMBINED STANDBY = 500 mA BELL = 100 mA

ALL OUTPUTS ARE CURRENT LIMITED

COLD WATER GROUND CONNECTION
USE ONLY COLD-WATER PIPE OR BURIED GROUND ROD. USE AT LEAST #16 AWG WIRE.

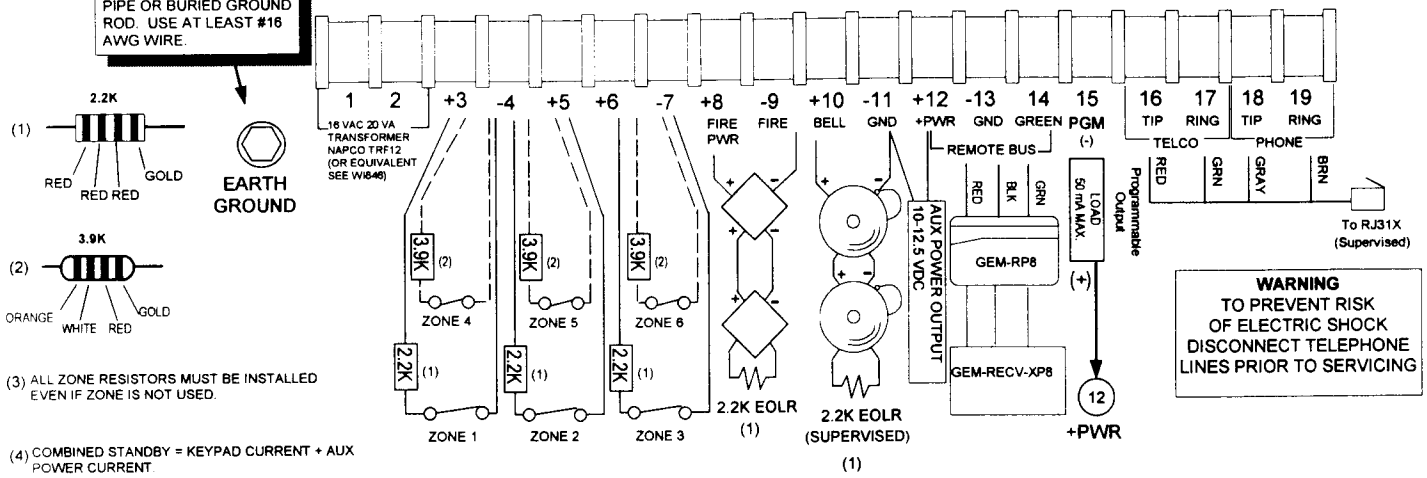
EARTH GROUND

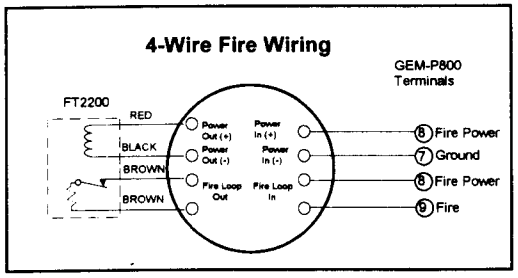
(1) 2.2K — RED, RED RED, GOLD

(2) 3.9K — ORANGE, WHITE, RED, GOLD

(3) ALL ZONE RESISTORS MUST BE INSTALLED EVEN IF ZONE IS NOT USED.

(4) COMBINED STANDBY = KEYPAD CURRENT + AUX POWER CURRENT



WARNING
TO PREVENT RISK OF ELECTRIC SHOCK DISCONNECT TELEPHONE LINES PRIOR TO SERVICING

4-Wire Fire Wiring