

### 3. PROGRAMMING

**Note:** For user programming instructions, refer to the EAGLE 4700 USER'S GUIDE (OI155).

All system features, codes, and communicator transmission information may be programmed using the keypad or downloaded from Alarm Lock PCD8000 Programming Software.

**Default Program.** The following default program is factory installed (note that it is set up for communication). It is the installer's responsibility to add, change, and/or delete features in accordance with these programming instructions to customize the system to the user's requirements and to conform to local codes. The default conditions will be restored whenever the system is reset (see *System Reset*) if *Enable Default Program* is programmed (see *BLOCK NO. 5, Location 4: Miscellaneous Options*).

**Note:** "A" denotes a blank (non-value) entry, and is programmed as such.

**Default Values.** The control panel is factory programmed as follows:

- Dealer Program Code: 4700
- Telephone No. 1: 234AAAAAAAAA
- Telephone No. 2: AAAAAAAAAAAA (blank)
- Callback No.: AAAAAAAAAAAA (blank) (for Eagle 4700DL only)
- Communicator Options: TouchTone®; 20 Baud; 2300Hz; 3/1; Audible Panic
- Account No. 1: 1234
- Account No. 2: AAAA (blank)
- Entry Delay: 30 seconds
- Exit Delay: 60 seconds
- Burglary Bell Timeout: 15 minutes
- Fire Bell Timeout: None
- Zone 1: Delayed (Alarm Code: 31)
- Zone 2: Interior Follower (Alarm Code: 32)
- Zone 3: Perimeter (Alarm Code: 33)
- Zone 4: Perimeter (Alarm Code: 34)
- Zone 5: Perimeter (Alarm Code: 35)
- Zone 6: Fire (Alarm Code: 16)
- User 1 Code: 1234
- Ambush: AA (blank)
- Ac Fail: AA (blank)
- Panic: 22
- Low Battery: AA (blank)
- Opening: A (blank)
- Closing: A (blank)
- Test: AA (blank)
- Bypass: A (blank)
- Restore: E
- Trouble: F
- No. of Rings Before Pickup: 8 (for Eagle 4700DL only)
- Keypad Fire Panic: 16
- Keypad Auxiliary Panic: 22

#### PROGRAMMING SHEET

A programming record sheet is provided at the end of this section. Fill out this sheet when planning system features and communicator information for the particular installation and keep it on file for future reference. Refer to *PROGRAMMING DATA AND INFORMATION* for guidance in programming each block.

**Note:** Contact the central station to ascertain receiver format, data format, account numbers, alarm codes, and telephone numbers.

#### KEYPAD PROGRAMMING

**General Information.** As can be seen from the Programming Sheet, the programming routine is

divided into a series of 22 Blocks numbered "01" through "21" and "00". Each block except *Telephone Numbers* contains 4 locations; *Telephone Numbers* (Blocks 01, 02 and 03) each contain 12 locations. Entering the Dealer Program Mode starts you at Block No. 01, Location No. 1 and automatically steps you through the programming routine sequentially, location by location, as shown on the programming sheet, unless you select otherwise. The keypad LEDs are used to identify block number and data entry, but in a hexadecimal form, which will become familiar with use.

**LED Indications In Program Mode.** LEDs display the following in the Dealer Program Mode:

**System Status LEDs** (ARMED; INTERIOR; INSTANT; AC POWER). Light in combination to indicate the data entry in the selected location within the block. *Example:* ARMED and INSTANT LEDs lit represent "5" (1 + 4).

**READY LED.** Flashes slowly to indicate the Program Mode.

LED	Data
O ARMED	= 1
O INTERIOR	= 2
O INSTANT	= 4
O AC POWER	= 8
O READY	= (flashing) Dealer Program Mode
LED	Block #
O ZONE 1	= 1
O ZONE 2	= 2
O ZONE 3	= 4
O ZONE 4	= 8
O ZONE 5	= 16
O ZONE 6	= Not used

**ZONE LEDs (1-5).** Light in combination to represent the block number. Zone LEDs are assigned values as follows:

To determine the Block Number, add up the values of all lighted Zone LEDs. *Example:* Zone LEDs 1, 3 & 4 lit represent Block No. 13 (1 + 4 + 8).

**Note:** The location number is not displayed while programming, however when a new block is entered, the keypad will sound a 1/2-second beep and the Zone LEDs will display the new block number.

**Keypad Functions in Program Mode.** Keypad buttons are assigned new functions in the Dealer Program Mode, as follows:

**1 - 9; 0. Data Entry (Numerical) Keys.** (Also used to select block numbers, as above.) Enter the data value directly, then press the P/# Button to advance to the next location.

**Note:** Each location can accommodate 15 numbers, however they must each be represented by a single character. To accomplish this, characters A through F are used to represent numbers 10 through 15, respectively. These extended characters must be entered by pressing the CODE Button, then the number indicated.

DATA CHARACTER	TO PROGRAM,
A (= 10)	Press CODE, then 1
B (= 11)	Press CODE, then 2
C (= 12)	Press CODE, then 3
D (= 13)	Press CODE, then 4
E (= 14)	Press CODE, then 5
F (= 15)	Press CODE, then 6

**"P/\*" Button.** Select Block Number "XX" ("XX" = Block Number). If not programming in the normal sequence, press the top "\*" Button, then two numerical keys representing the block number (00-21).

The keypad will beep with each press of the keypad and a half-second beep will sound to indicate a valid entry (four short beeps will indicate an invalid block number). The Zone LEDs will display the Block Number in hexadecimal form; similarly, the system status LEDs will display the data entry in the first location of that block.

**"P/#" Button. Next Location.** Advance to the next location within the block. The keypad will beep with each press of the keypad; at the end of a block, the keypad will sound a 1-second beep (approximately) to notify advancement to the first location of the next block.

**Dealer Program Mode.** The Dealer Program Mode may be accessed only while the panel is disarmed, as follows:

1. Press the CODE Button.
2. Press the "P/\*" Button.
3. Enter your Dealer Program Code. (The default Dealer Program Code is 4,7,0,0, but this number may be changed.) The green READY LED will flash to indicate the Dealer Program Mode. The red Zone 1 LED will light to indicate Block No. 01 (Location 1); one or more system status LEDs will light to indicate the data entry in that location.
4. To select a particular block (1st location), press the "P/\*" Button followed by the block number. (The block number is always entered as a two-digit number, thus Block No. 4 is entered as "04".)
5. To advance to the next location, press the "P/#" Button.
6. To program data entries 0-9, press the respective numerical key on the keypad. To program an extended data character A-F, press the CODE Button, then numerical key 1-6, respectively (see chart, above). The data entry for the selected location will be displayed by the system status LEDs.
7. Repeat steps 5 and 6 to continue programming.
8. To exit the Dealer Program Mode, press the INTERIOR Button. All LEDs will light for about five seconds before returning the system to normal operation.

#### **DOWNLOADING FROM A COMPUTER (Eagle 4700DL Only)**

Data may be downloaded directly into the control panel, either locally or remotely via telephone lines, using any IBM PC-compatible computer with Alarm Lock Eagleloader® PCD8000 software. Similarly, a control-panel program may be uploaded to the computer.

##### **Local Downloading**

The PCL8000 Local Download Cable shown in the PCI8000 instructions is not required for the Eagle 4700DL. Instead, connect a telephone line from Terminals 15 and 16 to the modem LINE jack. (Remove the plug coming from PCI8000-J5.)

Local downloading is further simplified as follows. Set up the computer for a *Function-6 Method Download* (see below). Then, a connection will be established immediately, ignoring the status of the zones, (a) at panel power-up or (b) after entering and exiting the Dealer Program Mode.

##### **Remote Downloading**

An installer need not be on the premises to remotely download data; using the *Callback Method*, data will be downloaded automatically after 8 rings (unless programmed otherwise) and a panel confirmation callback. Note that the Dealer Program Code in the PCD8000 must agree with that (or the default code) of the control panel.

With an installer at the site and an operator at the computer, data transfer may be initiated manually by the installer using the *Function-6 Method*. To initiate the data transfer, (a) arm the panel; (b) disarm; then, (c) within 5 seconds, hold down Key 6 for about two seconds. (The installer should be in contact with the computer operator, as a different procedure is initiated at the computer end.)

##### **Auto Downloading**

Eagleloader PCD8000 Software Version 2.E and later includes a Standby Utility wherein up to 99 control-panel programs may be preset for automatic remote downloading from the installation sites while the computer is unattended. Then, the installer need program the panel for only the following: (a) Auto

*Download ID Number* (identifying the program to be downloaded from the computer) and (b) *Download Telephone Number* (at the computer). **Note:** The Dealer Program Code in the PCD8000 must agree with that of the control panel for the remote connection to be established. Enter the *Auto-Download ID Number* in BLOCK NO. 21, Locations 1-2. When an Auto Download is executed at the panel (arm, disarm, then press Key 6 within 5 seconds), the panel will call the computer and the respective program will be loaded automatically.

Instructions for installing and running the PCD8000 program are provided in the software package. On-screen prompting and the extensive use of help menus simplify programming, and an error-checking mode locates omissions and incompatible data to reduce the possibility of mistakes.

**Note:** (1) Downloading requires a modem compatible with the PCD8000; (2) Downloading must be disabled in UL installations.