



# SYSTEM PROGRAMMING GUIDE (708ULT)

Software Version 1.2 - 1.3

## INSTALLER CODE (Default: 080808)

Full access to programming, except user access codes (PINs). No access to arming/disarming. Use only numeric keys from [0] to [9].

## ZONE RECOGNITION

Table 1: Zone Recognition

Device connected to which input?	No ATZ	With ATZ
<b>Control Panel</b>		
Input 1 =	Zone 1	Zones 1 & 2
Input 2 =	Zone 2	Zones 3 & 4
Input 3 =	Zone 3	Zones 5 & 6
Input 4 =	Zone 4	Zones 7 & 8
<b>Keypad</b>		
Zone 1 =	Zone 5	Zone 9
Zone 2 =	Zone 6	Zone 10

## STREAMLINED SECTION PROGRAMMING

This is an alternate method to Hexa Programming (see page 1). Addresses **000 to 043** and **300 to 527** are grouped into 67 sections where each section contains four addresses (i.e. section **00** = addresses **000 to 003**). Using this method allows you to program 8 digits (4 addresses) without having to exit and reenter addresses.



**Note, the keypad will not display the current data in the Streamlined Section Programming method.**

Table 2: Streamlined Section Programming Method

- |   |
|---|
| <ol style="list-style-type: none"> <li>1) Press [ENTER] + [INSTALLER CODE] (default: 080808) + [7]</li> <li>2) The [ENTER] and [2ND] keys will flash to indicate you are in programming mode</li> <li>3) Enter 2-digit [SECTION] (00 to 67)</li> <li>4) The [ENTER] key will remain on while the [2ND] key will be off</li> <li>5) Enter 8-digit [DATA] to program the section</li> <li>6) The keypad will "beep" to indicate that the section has been programmed, data is saved and the software has advanced to the next section</li> <li>7) Return to step 4 or press [CLEAR] to exit programming mode</li> </ol> |
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## KEYPAD TROUBLE DISPLAY

Press the [TBL]/[TRBL] key to view the trouble. Any illuminated keys represent a specific trouble as indicate in Table 3 below. Press the [CLEAR] button to exit the trouble display.

Table 3: Trouble Display

[7] - Communicator Report Failure	[9] - Tamper or Zone Wiring Failure
[8] - Timer Loss* (to clear, see [MEM] key in Table 8 on page 8)	[10] - Telephone Line Monitoring Failure

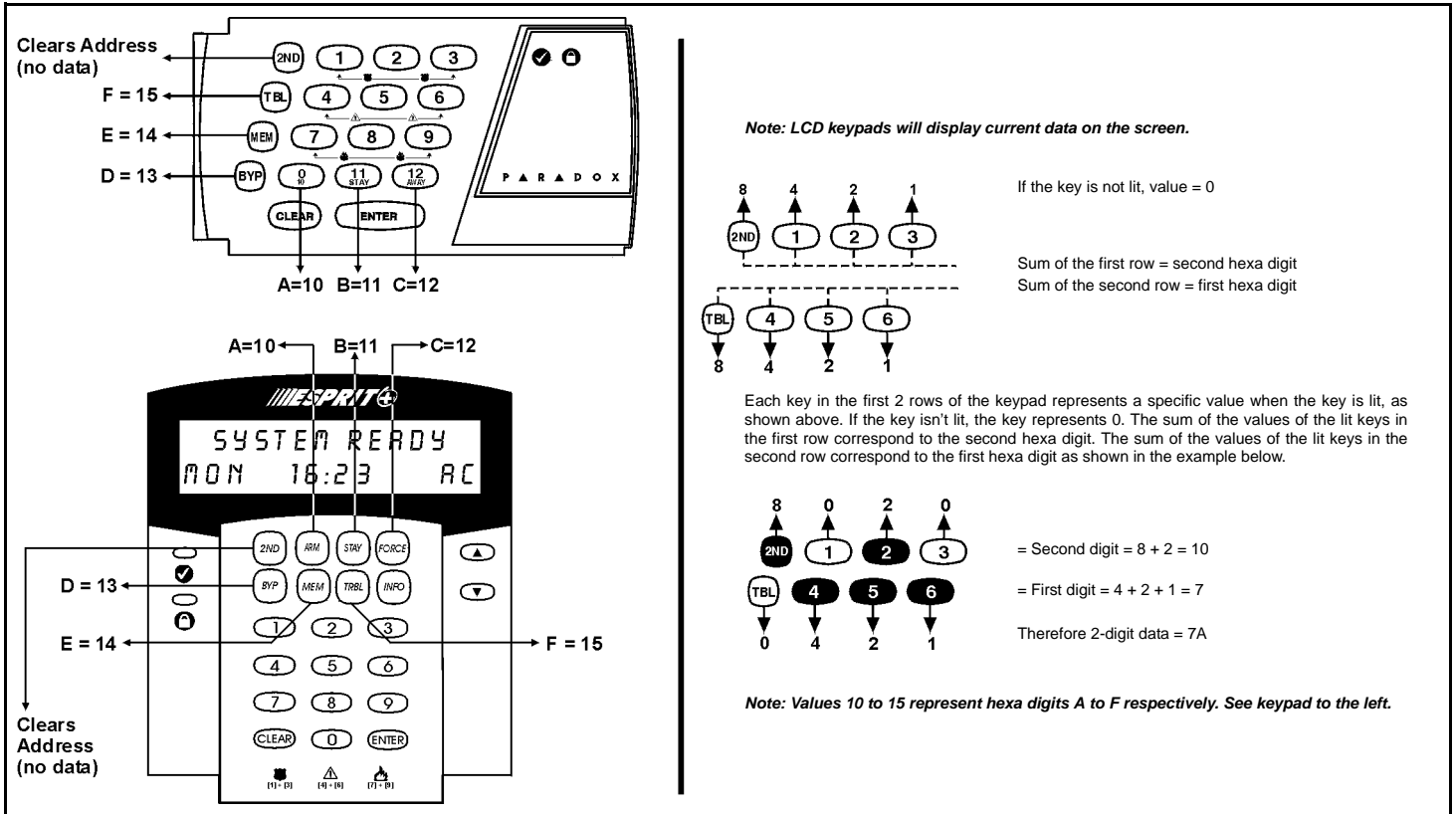
## HEXA PROGRAMMING

This is an alternate method to the Streamlined Section Programming (see page 1). Addresses **000 to 043** and **300 to 527** can be programmed using the Hexa Programming method. In this mode, you can enter any hexadecimal digit from 0 - F where keys [1] to [9] represent digits 1 to 9 respectively; the other keys represent hexadecimal digits A to F as shown in Figure 1 on page 2.

**Table 4: Hexa Programming Method**

- 1) Press **[ENTER] + [INSTALLER CODE]** (default: 080808)
- 2) The **[ENTER]** key will flash indicating you are in programming mode
- 3) Enter the desired 3-digit **[ADDRESS]**
- 4) The keypad will display the 2-digit data currently saved at this address as described in Figure 1 below
- 5) Enter 2-digit **[DATA]** and do not press **[ENTER]**, the software automatically saves the data
- 6) Return to step 2 or press **[CLEAR]** to exit programming mode

**Figure 1: Hexa Digit Data Entry and Data Display for LED Keypads**



**INSTALLER / PANEL ANSWER OPTIONS**

Streamline Section	Data	Description	Address
00	___ / ___	Installer code (1st, 2nd digit)	000
	___ / ___	Installer code (3rd, 4th digit)	001
	___ / ___	Installer code (5th, 6th digit)	002
	___ / ___	Panel answer options	003
		↳	Number of rings (Max. 15)

Answering Machine Override	
<b>[2ND]</b> or <b>[1]</b> = disabled	<b>[5]</b> = 40 seconds
<b>[2]</b> = 16 seconds	<b>[6]</b> = 48 seconds
<b>[3]</b> = 24 seconds	<b>[7]</b> = 56 seconds
<b>[4]</b> = 32 seconds	<b>[8]</b> to <b>[F]</b> = 60 seconds

First digit disables "Answering Machine Override" (key **[2ND]** or key **[1]**), or determines period of time between first and second call. Second digit determines number of rings required before panel will answer. If **[2ND][2ND]** is entered, panel will not answer (default value is **[2ND] [8]**).

Streamline Section	Data	Description	Address
01	___ / ___	Panel Identifier (1st, 2nd digit)	004
	___ / ___	Panel Identifier (3rd, 4th digit)	005
	___ / ___	PC Password (1st, 2nd digit)	006
	___ / ___	PC Password (3rd, 4th digit)	007

{ Identifies the control panel to the PC.  
{ Identifies the PC to the control panel.

## TELEPHONE AND ACCOUNT NUMBERS

If only one central station phone number is used, program the same number for telephone number 1 and 2. If only one account number is required, the same number must be entered for both account "A" and "B".

[0] to [9] = numeric value    [BYP] = switch from pulse to tone while dialing  
 [11] = \*                            [MEM] = pause 4 seconds  
 [12] = #                            [TRBL] = end of number

### Computer Telephone Number (View at addresses 008 to 015)

<p><b>Streamline Section</b></p> <p><b>02</b>    <u>  /  /  /  /  /  /  /  /  </u>                    1 2 3 4 5 6 7 8</p>	<p><b>Streamline Section</b></p> <p><b>03</b>    <u>  /  /  /  /  /  /  /  /  </u>                    9 10 11 12 13 14 15 16</p>	<p>Press the [TBL]/[TRBL] key to end phone number if less than 16 digits are programmed.</p>
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### Central Station Telephone Number 1 (View at addresses 016 to 023)

<p><b>Streamline Section</b></p> <p><b>04</b>    <u>  /  /  /  /  /  /  /  /  </u>                    1 2 3 4 5 6 7 8</p>	<p><b>Streamline Section</b></p> <p><b>05</b>    <u>  /  /  /  /  /  /  /  /  </u>                    9 10 11 12 13 14 15 16</p>	<p>Press the [TBL]/[TRBL] key to end phone number if less than 16 digits are programmed.</p>
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### Central Station Telephone Number 2 (View at addresses 024 to 031)

<p><b>Streamline Section</b></p> <p><b>06</b>    <u>  /  /  /  /  /  /  /  /  </u>                    1 2 3 4 5 6 7 8</p>	<p><b>Streamline Section</b></p> <p><b>07</b>    <u>  /  /  /  /  /  /  /  /  </u>                    9 10 11 12 13 14 15 16</p>	<p>Press the [TBL]/[TRBL] key to end phone number if less than 16 digits are programmed.</p>
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### Account "A" and "B" (View at addresses 032 to 035)

<p><b>Streamline Section</b></p> <p><b>08</b>    <u>  /  /  /  /  </u>    <u>  /  /  /  /  </u>                    1 2 3 4            5 6 7 8                                            <b>A</b>                    <b>B</b></p>	<p>For 3-digit account numbers, enter "skip" ([2ND]) as first digit.          The Standard Pulse report format can support 3- or 4-digit account numbers.          The Ademco Express, Ademco Contact ID and the Pager report formats only support 4-digit account numbers.</p>
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<p><b>Streamline Section</b></p> <p><b>09</b> — [ ]</p>	<p><b>Data</b></p> <p>[2ND] / [2ND]          ___ / ___          ___ / ___          [2ND] / [2ND]</p>	<p><b>Description</b></p> <p>Future Use  <i>1st digit:</i> Pager Delay (see table at right)  <i>2nd digit:</i> Time correction (see table at right)          Future Use</p>	<p><b>Address</b></p> <p>036          037 →          038          039</p>	<p><b>Pager Delay Table (1st digit)</b></p> <table border="0"> <tr> <td>[2ND] or [1] = 8 secs.</td> <td>[9] = 72 secs.</td> </tr> <tr> <td>[2] = 16 secs.</td> <td>[A] = 80 secs.</td> </tr> <tr> <td>[3] = 24 secs.</td> <td>[B] = 88 secs.</td> </tr> <tr> <td>[4] = 32 secs.</td> <td>[C] = 96 secs.</td> </tr> <tr> <td>[5] = 40 secs.</td> <td>[D] = 104 secs.</td> </tr> <tr> <td>[6] = 48 secs.</td> <td>[E] = 112 secs.</td> </tr> <tr> <td>[7] = 56 secs.</td> <td>[F] = 120 secs.</td> </tr> <tr> <td>[8] = 64 secs.</td> <td></td> </tr> </table> <p><b>Time Correction Table (2nd digit)</b></p> <table border="0"> <tr> <td>[2ND] = No adjustment</td> <td>[8] = Minus 4 secs.</td> </tr> <tr> <td>[1] = Plus 4 secs.</td> <td>[9] = Minus 8 secs.</td> </tr> <tr> <td>[2] = Plus 8 secs.</td> <td>[10] = Minus 12 secs.</td> </tr> <tr> <td>[3] = Plus 12 secs.</td> <td>[11] = Minus 16 secs.</td> </tr> <tr> <td>[4] = Plus 16 secs.</td> <td>[12] = Minus 20 secs.</td> </tr> <tr> <td>[5] = Plus 20 secs.</td> <td>[BYP] = Minus 24 secs.</td> </tr> <tr> <td>[6] = Plus 24 secs.</td> <td>[MEM] = Minus 28 secs.</td> </tr> <tr> <td>[7] = Plus 28 secs.</td> <td>[TRBL] = Minus 32 secs.</td> </tr> </table>	[2ND] or [1] = 8 secs.	[9] = 72 secs.	[2] = 16 secs.	[A] = 80 secs.	[3] = 24 secs.	[B] = 88 secs.	[4] = 32 secs.	[C] = 96 secs.	[5] = 40 secs.	[D] = 104 secs.	[6] = 48 secs.	[E] = 112 secs.	[7] = 56 secs.	[F] = 120 secs.	[8] = 64 secs.		[2ND] = No adjustment	[8] = Minus 4 secs.	[1] = Plus 4 secs.	[9] = Minus 8 secs.	[2] = Plus 8 secs.	[10] = Minus 12 secs.	[3] = Plus 12 secs.	[11] = Minus 16 secs.	[4] = Plus 16 secs.	[12] = Minus 20 secs.	[5] = Plus 20 secs.	[BYP] = Minus 24 secs.	[6] = Plus 24 secs.	[MEM] = Minus 28 secs.	[7] = Plus 28 secs.	[TRBL] = Minus 32 secs.
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Communicator Formats (* = supports 4-digit account codes only)			
Key	Data	Description	Address
[2ND]	[2ND] / [2ND]	Future Use	040
[1]	[2ND] / [2ND]	Future Use	041
[2]	[2ND] / [2ND]	Future Use	042
[3]	[2ND] / [2ND]	Future Use	043

<p><b>Key</b></p> <p>[6] = ADEMCO slow (1400Hz, 1900Hz, 10bps)</p> <p>[1] = (1400Hz, 1800Hz, 10bps)</p> <p>[2] = SILENT KNIGHT fast (1400Hz, 1900Hz, 20bps)</p> <p>[3] = SESCOA (2300Hz, 1800Hz, 20bps)</p> <p>[4] = RADIONICS (40bps with 1400Hz handshake)</p> <p>[5] = RADIONICS (40bps with 2300Hz handshake)</p>	<p><b>Key</b></p> <p>[6] = RADIONICS with PARITY (1400Hz, 40bps)</p> <p>[7] = RADIONICS with PARITY (2300Hz, 40bps)</p> <p>[8] = * ADEMCO express</p> <p>[9] = * ADEMCO contact ID (programmable codes)</p> <p>[10] = * ADEMCO contact ID (all codes)</p> <p>[TBL] / [TRBL] = * PAGER FORMAT (personal dialing)</p>
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### Programmable Contact ID Event Codes

All addresses from **300** to **527** (sections 11 to 67) programmed with values other than **[2ND]** **[2ND]** will report the contact ID codes corresponding to the values programmed. Values to be programmed should be selected from this table.

CID	Reporting Code	Prog. Value	CID	Reporting Code	Prog. Value
100:	AUXILIARY ALARM	[2ND] / [1]	300:	SYSTEM TROUBLE	[2] / [2]
110:	FIRE ALARM	[2ND] / [2]	301:	AC LOSS	[2] / [3]
111:	FIRE SMOKE	[2ND] / [3]	302:	LOW SYSTEM BATTERY	[2] / [4]
112:	COMBUSTION	[2ND] / [4]	305:	SYSTEM RESET	[2] / [5]
113:	WATER FLOW	[2ND] / [5]	306:	PROGRAM CHANGED	[2] / [6]
114:	HEAT	[2ND] / [6]	309:	BATTERY TEST FAIL	[2] / [7]
115:	PULLSTATION	[2ND] / [7]	320:	SOUNDER/RELAY TROUBLE	[2] / [8]
116:	DUCT	[2ND] / [8]	321:	BELL 1 TROUBLE	[2] / [9]
117:	FLAME	[2ND] / [9]	323:	ALARM RELAY TROUBLE	[2] / [10]
118:	NEAR ALARM	[2ND] / [10]	350:	COMMUNICATION TROUBLE	[2] / [11]
120:	PANIC ALARM	[2ND] / [11]	351:	TELCO 1 FAULT	[2] / [12]
121:	DURESS	[2ND] / [12]	354:	FAIL TO COMMUNICATE	[2] / [BYP]
122:	SILENT PANIC	[2ND] / [BYP]	370:	PROTECTION LOOP TROUBLE	[2] / [MEM]
123:	AUDIBLE PANIC	[2ND] / [MEM]	371:	PROTECTION LOOP OPEN	[2] / [TRBL]
130:	BURGLARY	[2ND] / [TRBL]	372:	PROTECTION LOOP SHORT	[3] / [2ND]
131:	PERIMETER BURGLARY	[1] / [2ND]	373:	FIRE LOOP TROUBLE	[3] / [1]
132:	INTERIOR BURGLARY	[1] / [1]	382:	SENSOR TROUBLE	[3] / [2]
133:	24HR BURGLARY	[1] / [2]	383:	SENSOR TAMPER	[3] / [3]
136:	BURGLARY OUTDOOR	[1] / [3]	400:	OPEN / CLOSE	[3] / [4]
137:	BURGLARY TAMPER	[1] / [4]	401:	OPEN / CLOSE BY USER #	[3] / [5]
138:	BURGLARY NEAR ALARM	[1] / [5]	402:	GROUP OPEN / CLOSE	[3] / [6]
140:	GENERAL ALARM	[1] / [6]	403:	AUTOMATIC OPENING / CLOSING	[3] / [7]
150:	24 HOUR AUXILIARY	[1] / [7]	404:	LATE TO OPEN / CLOSE	[3] / [8]
151:	GAS DETECTED	[1] / [8]	407:	REMOTE ARM DOWNLOAD	[3] / [9]
152:	REFRIGERATION	[1] / [9]	410:	REMOTE ACCESS	[3] / [10]
153:	LOSS OF HEAT	[1] / [10]	441:	OPEN / CLOSE - STAY MODE	[3] / [11]
154:	WATER LEAKAGE	[1] / [11]	570:	BYPASS	[3] / [12]
155:	FOIL BREAK ALARM	[1] / [12]	572:	24 HOUR ZONE BYPASS	[3] / [BYP]
156:	DAY TROUBLE ALARM	[1] / [BYP]	573:	BURGLARY BYPASS #	[3] / [MEM]
157:	LOW GAS LEVEL	[1] / [MEM]	574:	GROUP BYPASS	[3] / [TRBL]
158:	HIGH TEMPERATURE	[1] / [TRBL]	601:	MANUAL TEST	[4] / [2ND]
159:	LOW TEMPERATURE	[2] / [2ND]	602:	PERIODIC TEST	[4] / [1]
161:	LOSS AIR FLOW	[2] / [1]	625:	TIME / DATE RESET	[4] / [2]
			654:	SYSTEM INACTIVITY	[4] / [3]

### REPORTING CODES

All digits from **[1]** to **[F]** are valid. **[2ND]** = digit will not be reported except for Contact ID programmable codes. For single digit reporting, enter "skip" (**[2ND]**) as the first digit (*default = [2ND] / [2ND]*).

 **Enter FF to program the default Ademco Contact ID report code when using the Ademco Contact ID (programmable codes) or Pager report formats.**

**If the Contact ID Format (all codes) is selected, addresses 300 to 527 (sections 11 to 67) do not have to be programmed. To select Contact ID (all codes) you must set key [10] at section 09/address 038 for both central station numbers (see page 3).**

#### ALARM REPORT CODES FOR ZONES 1 TO 10:

Streamline Section	Data	Description	Address
<b>36</b> — [	___ / ___	Zone 1	<b>400</b>
	___ / ___	Zone 2	<b>401</b>
	___ / ___	Zone 3	<b>402</b>
	___ / ___	Zone 4	<b>403</b>
<b>37</b> — [	___ / ___	Zone 5	<b>404</b>
	___ / ___	Zone 6	<b>405</b>
	___ / ___	Zone 7	<b>406</b>
	___ / ___	Zone 8	<b>407</b>

#### ALARM RESTORE REPORT CODES FOR ZONES 1 TO 10

Streamline Section	Data	Description	Address
<b>42</b> — [	___ / ___	Zone 1	<b>424</b>
	___ / ___	Zone 2	<b>425</b>
	___ / ___	Zone 3	<b>426</b>
	___ / ___	Zone 4	<b>427</b>
<b>43</b> — [	___ / ___	Zone 5	<b>428</b>
	___ / ___	Zone 6	<b>429</b>
	___ / ___	Zone 7	<b>430</b>
	___ / ___	Zone 8	<b>431</b>

<b>38</b>	[	___ / ___	Zone 9	<b>408</b>
		___ / ___	Zone 10	<b>409</b>
		[2ND] / [2ND]	Future Use	<b>410</b>
		[2ND] / [2ND]	Future Use	<b>411</b>
39 to 41			Future Use	<b>412-423</b>

<b>44</b>	[	___ / ___	Zone 9	<b>432</b>
		___ / ___	Zone 10	<b>433</b>
		[2ND] / [2ND]	Future Use	<b>434</b>
		[2ND] / [2ND]	Future Use	<b>435</b>
45 to 53			Future Use	<b>436-471</b>

#### TAMPERS 1 TO 4 REPORT CODES

Streamline Section	Data	Description	Address	
<b>54</b>	[	___ / ___	Tamper 1 (ATZ)	<b>472</b>
		___ / ___	Tamper 2	<b>473</b>
		___ / ___	Tamper 3 (ATZ)	<b>474</b>
		___ / ___	Tamper 4	<b>475</b>

#### TAMPERS 5 AND 7 REPORT CODES

Streamline Section	Data	Description	Address	
<b>55</b>	[	___ / ___	Tamper 5 (ATZ)	<b>476</b>
		[2ND] / [2ND]	Future Use	<b>477</b>
		___ / ___	Tamper 7 (ATZ)	<b>478</b>
		[2ND] / [2ND]	Future Use	<b>479</b>

Streamline sections **56 to 60** (addresses **480-499**) are reserved for future use.

#### TROUBLE REPORT CODES:

Streamline Section	Data	Description	Address	
<b>61</b>	[	[2ND] / [2ND]	Future Use	<b>500</b>
		___ / ___	Timer loss	<b>501</b>
		[2ND] / [2ND]	Future Use	<b>502</b>
		[2ND] / [2ND]	Future Use	<b>503</b>

#### TROUBLE RESTORE REPORT CODES:

Streamline Section	Data	Description	Address	
<b>63</b>	[	[2ND] / [2ND]	Future Use	<b>508</b>
		___ / ___	Timer programmed	<b>509</b>
		___ / ___	Tamper / wiring fault	<b>510</b>
		___ / ___	TLM restore	<b>511</b>

#### SPECIAL REPORT CODES:

Streamline Section	Data	Description	Address	
<b>64</b>	[	___ / ___	Test report	<b>512</b>
		[2ND] / [2ND]	Future Use	<b>513</b>
		[2ND] / [2ND]	Future Use	<b>514</b>
		[2ND] / [2ND]	Future Use	<b>515</b>

Streamline Section	Data	Description	Address	
<b>66</b>	[	[2ND] / [2ND]	Future Use	<b>520</b>
		[2ND] / [2ND]	Future Use	<b>521</b>
		[2ND] / [2ND]	Future Use	<b>522</b>
		[2ND] / [2ND]	Future Use	<b>523</b>

Streamline Section	Data	Description	Address	
<b>65</b>	[	[2ND] / [2ND]	Future Use	<b>516</b>
		[2ND] / [2ND]	Future Use	<b>517</b>
		[2ND] / [2ND]	Future Use	<b>518</b>
		[2ND] / [2ND]	Future Use	<b>519</b>

Streamline Section	Data	Description	Address	
<b>67</b>	[	___ / ___	Login (Espload)	<b>524</b>
		___ / ___	Program Change	<b>525</b>
		[2ND] / [2ND]	Future Use	<b>526</b>
		[2ND] / [2ND]	Future Use	<b>527</b>

#### DECIMAL PROGRAMMING

The decimal programming method is used to program all of the system's timers. This method uses a 3-digit address from **044** to **061** and each address is programmed with a value from **000** to **255**.

**Table 5: Decimal Programming Method**

- |   |
|---|
| <ol style="list-style-type: none"> <li>1) Press <b>[ENTER] + [INSTALLER CODE]</b> (default: 080808)</li> <li>2) The <b>[ENTER]</b> key will flash to indicate you are in programming mode</li> <li>3) Enter 3-digit <b>[ADDRESS]</b> (<b>044</b> to <b>061</b>)</li> <li>4) The keypad displays the current 3-digit data saved at this address as described in Figure 2 on page 6.</li> <li>5) Enter 3-digit <b>[DATA]</b> (000 to 255) and do not press <b>[ENTER]</b>, the software will automatically save the data</li> <li>6) Return to step 2 or press <b>[CLEAR]</b> to exit programming mode</li> </ol> |
|---|

Address	Data	Description	Default
044	N/A	Future Use	
045	N/A	Future Use	
046	___ / ___ / ___	(days or hours) Auto test report every ? (between "001" and "255") (000 = disabled) If address 090 key [3] OFF = address 046 in days (see page 7) If address 090 key [3] ON = address 046 in hours (see page 7)	
047	___ / ___ / ___	(hours) Auto test report (between "000" and "023")	
048	___ / ___ / ___	(minutes) Auto test report (between "000" and "059")	

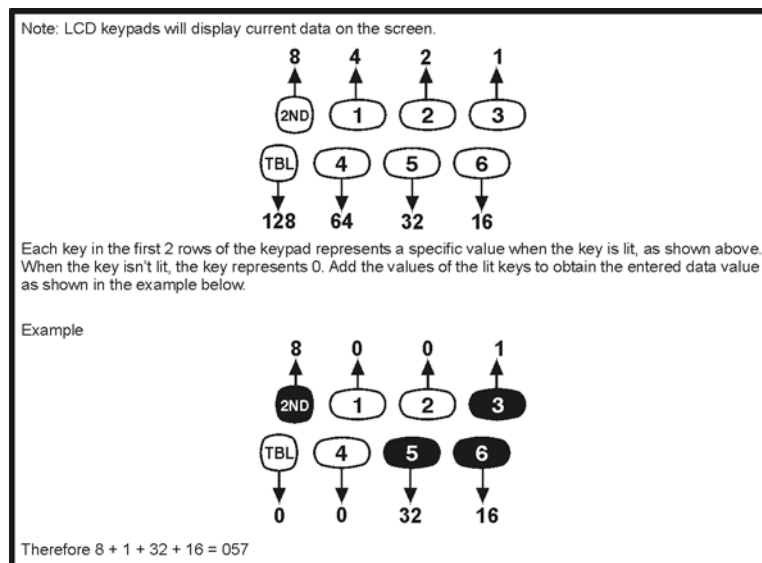
Addresses **049** to **052** are reserved for future use.

<b>053</b>	___ / ___ / ___	(x 15 ms) Zone speed	600 ms
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Addresses **054** to **056** are reserved for future use.

<b>057</b>	___ / ___ / ___	Intellizone delay (in seconds, minimum = 10 seconds)	48 seconds
<b>058</b>	___ / ___ / ___	Installer code lock (147 = locked, 000 = unlocked). When Installer Lock is enabled on a control panel: For 4 seconds during power up, the STATUS LED flashes while the dialer relay opens and closes making a clicking noise.	
<b>059</b>	N/A	Future Use	
<b>060</b>	N/A	Future Use	
<b>061</b>	N/A	Future Use	

**Figure 2: Decimal Display For LED Keypads**



## FEATURE SELECT PROGRAMMING

Addresses **062** to **126** are programmed using the Feature Select Programming method. In this method, every key on the keypad in each address represents an option or feature. Pressing a key will display it on the keypad and pressing it again will extinguish the key. The ON or OFF status of each key determines the selected feature. Addresses **080** to **085** are reserved for future use. To program using the Feature Select Programming method:

**Table 6: Feature Select Programming Method**

- 1) Press [ENTER] + [INSTALLER CODE] (default: 080808)
- 2) The [ENTER] key will flash to indicate you are in programming mode
- 3) Enter 3-digit [ADDRESS] (062 to 126)
- 4) After entering the address, the keypad will display the feature selection status. Turn the keys ON or OFF by pressing the appropriate key until the desired options are set. Press the [ENTER] key to accept, there will be a confirmation "beep" indicating the options have been accepted. The [ENTER] key will flash to indicate that the software is awaiting the next address entry.
- 5) Return to step 3 to continue programming or press [CLEAR] to exit programming mode

**086:**

See "TLM" table at right

	OFF	KEY /	ON	
N/A	<input type="checkbox"/>	[2ND]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[1]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[2]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[3]	<input type="checkbox"/>	N/A
Call back	<input type="checkbox"/>	[4]	<input type="checkbox"/>	Enabled
N/A	<input type="checkbox"/>	[5]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[6]	<input type="checkbox"/>	N/A
Pulse dialing	<input type="checkbox"/>	[7]	<input type="checkbox"/>	Tone dialing (DTMF)
N/A	<input type="checkbox"/>	[8]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[9]	<input type="checkbox"/>	N/A
(1:2) Pulse Europe	<input type="checkbox"/>	[10]	<input type="checkbox"/>	(1:1.5) Pulse USA
See "Reporting Options" table at right	<input type="checkbox"/>	[11]	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	[12]	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	[BYP]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[MEM]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[TRBL]	<input type="checkbox"/>	N/A

Telephone Line Monitoring (TLM)		
KEY		
[2ND]	[1]	
OFF	OFF	- TLM disabled
OFF	ON	- TLM generates trouble only

Reporting Options		
KEY		
[11]	[12]	
OFF	OFF	- Reporting disabled
OFF	ON	- Regular reporting
ON	OFF	- Split reporting (Alarms & System)
ON	ON	- Double reporting
Report Dialing Sequence (tel. no.)		
Regular: 1,2,1,2,1,2,1,2, fail to comm.		
Split: Alarms - 1,1,1,1,1,1,1,1, fail to comm		
System - 2,2,2,2,2,2,2,2, fail to comm		
Double: 1,1,1,1,1,1,1,1, fail to comm		
2,2,2,2,2,2,2,2, fail to comm		

**088:**

	OFF	KEY /	ON	
N/A	<input type="checkbox"/>	[2ND]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[1]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[2]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[3]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[4]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[5]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[6]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[7]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[8]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[9]	<input type="checkbox"/>	N/A
Tamper Recognition	<input type="checkbox"/>	[10]	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	[11]	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	[12]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[BYP]	<input type="checkbox"/>	N/A
Zones with EOL (1kΩ)	<input type="checkbox"/>	[MEM]	<input type="checkbox"/>	No EOL
N/A	<input type="checkbox"/>	[TRBL]	<input type="checkbox"/>	N/A

Tamper / Wire Fault Definitions		
KEY		
[10]	[11]	
OFF	OFF	- Tamper supervision disabled
OFF	ON	Trouble and alarm codes reported
ON	ON	

**090:**

	OFF	KEY /	ON	
N/A	<input type="checkbox"/>	[2ND]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[1]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[2]	<input type="checkbox"/>	N/A
Auto test report timer in days	<input type="checkbox"/>	[3]	<input type="checkbox"/>	In hours
N/A	<input type="checkbox"/>	[4]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[5]	<input type="checkbox"/>	N/A
N/A	<input type="checkbox"/>	[6]	<input type="checkbox"/>	N/A
Zone doubling (ATZ) wiring in series	<input type="checkbox"/>	[7]	<input type="checkbox"/>	Parallel
Zone doubling (ATZ)	<input type="checkbox"/>	[8]	<input type="checkbox"/>	Enabled
Audible trouble warning	<input type="checkbox"/>	[9]	<input type="checkbox"/>	Enabled
N/A	<input type="checkbox"/>	[10]	<input type="checkbox"/>	N/A
Keypad zone 1 supervision	<input type="checkbox"/>	[11]	<input type="checkbox"/>	Enabled
Keypad zone 2 supervision	<input type="checkbox"/>	[12]	<input type="checkbox"/>	Enabled
N/A	<input type="checkbox"/>	[BYP]	<input type="checkbox"/>	N/A
Pager format (wait delay)	<input type="checkbox"/>	[MEM]	<input type="checkbox"/>	Personal dialing (during delay)
Pager report alarms only	<input type="checkbox"/>	[TRBL]	<input type="checkbox"/>	All events

**Table 7: Zone Definition**

Address	KEY SELECT:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]
	Zone:	1	2	3	4	5	6	7	8	9	10
<b>092:</b>	Intellizone = <b>ON</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Addresses **096** to **126** are reserved for future use.

**KEY ACCESS PROGRAMMING**

Programs features quickly, without entering addresses or sections numbers. To activate Key Access Programming, press **[ENTER]** followed by the installer code. Press the key corresponding to the desired feature. Press **[ENTER]** or **[CLEAR]** to exit. When communicating with Espload, it is impossible to enter programming mode.

**Table 8: Key Access Programming**

Key	Feature
<b>[MEM]</b>	<b>Panel Time Programming</b> [MEM] key flashes. Enter 2-digit hour (00 to 23) and 2-digit minutes (00 to 59).
<b>[BYP]</b>	<b>Test Report</b> Reporting is enabled at address <b>086</b> , keys <b>[11]</b> and <b>[12]</b> (see page 7). A value must be entered at address <b>512</b> (page 5) and both telephone and account numbers must be programmed.
<b>[TRBL]</b>	<b>Call Espload Via Telephone</b> Panel identifier and PC password (addresses <b>004</b> to <b>007</b> on page 2) and computer telephone number (addresses <b>008</b> to <b>015</b> on page 3) must be programmed.
<b>[AWAY]</b>	<b>Answer Espload</b> This feature is available when using the ADP-1 adapter. In Espload, "blind dial" must be activated in "modem setup" section and panel phone number programmed.
<b>[STAY]</b>	<b>Cancel Communication Attempts</b> Until next reportable event.

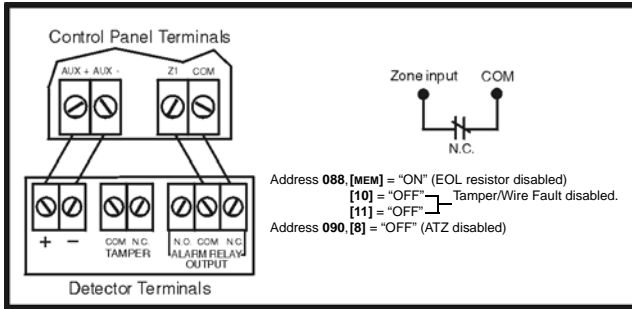


# CONNECTION DIAGRAMS

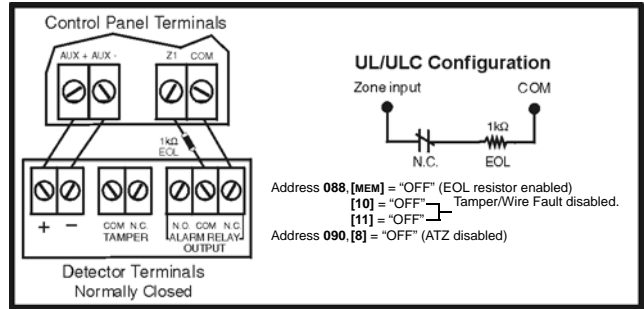
The system hardware will recognize the following zone conditions:

## SINGLE ZONE CONNECTIONS

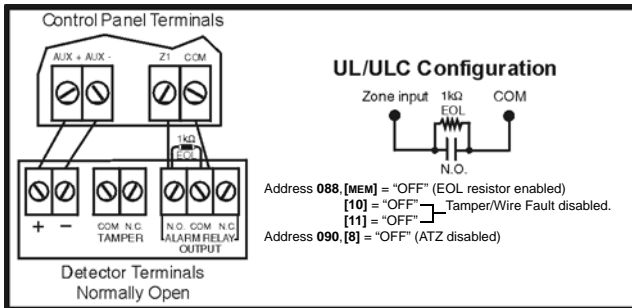
**Figure 3: N.C. Contacts, without EOL Resistor**



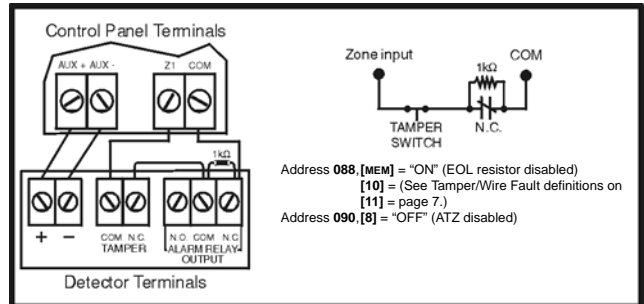
**Figure 4: N.C. Contacts, with EOL Resistor (UL/ULC)**



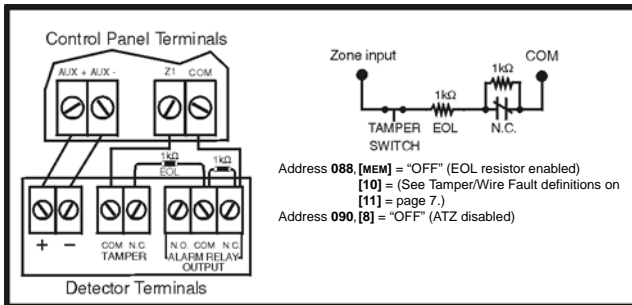
**Figure 5: N.O. Contacts, with EOL Resistor (UL/ULC)**



**Figure 6: N.C. Contacts, without EOL Resistor, with Tamper Recognition**



**Figure 7: N.C. Contacts, with EOL resistor, with Tamper and Wire Fault Recognition (UL/ULC)**



## ADVANCED TECHNOLOGY ZONE CONNECTIONS

Figure 8: N.C. Contacts, without EOL Resistor

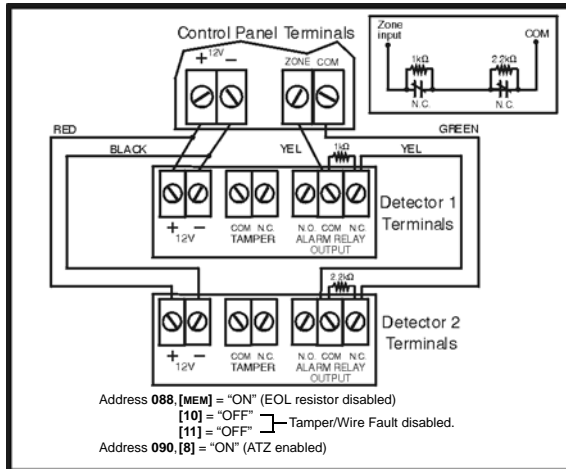


Figure 9: N.C. Contacts, without EOL Resistor, with Tamper Recognition

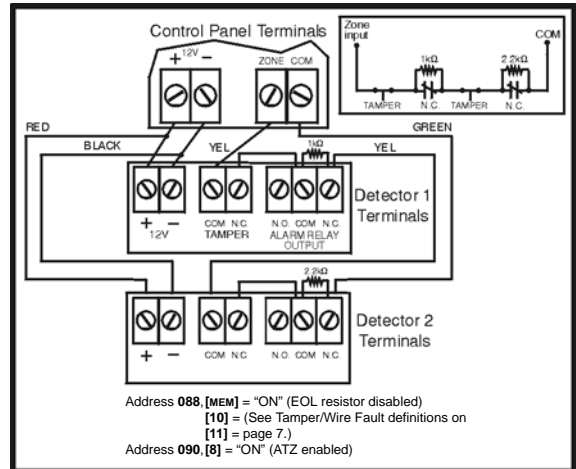


Figure 10: N.O. Contacts, with EOL Resistor, with Tamper and Wire Fault Recognition (UL/ULC)

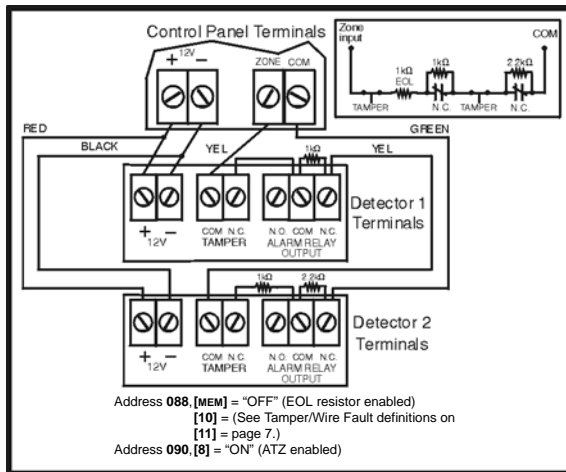
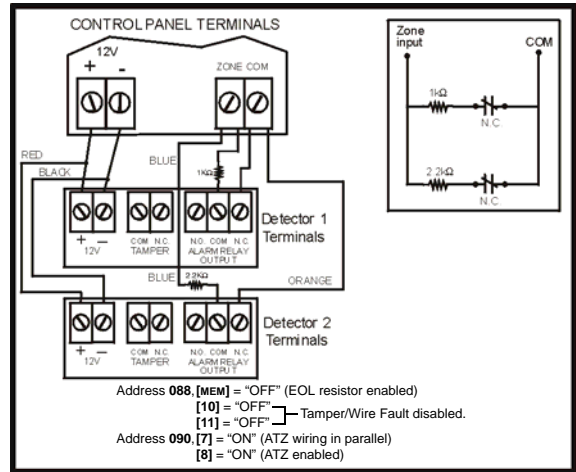
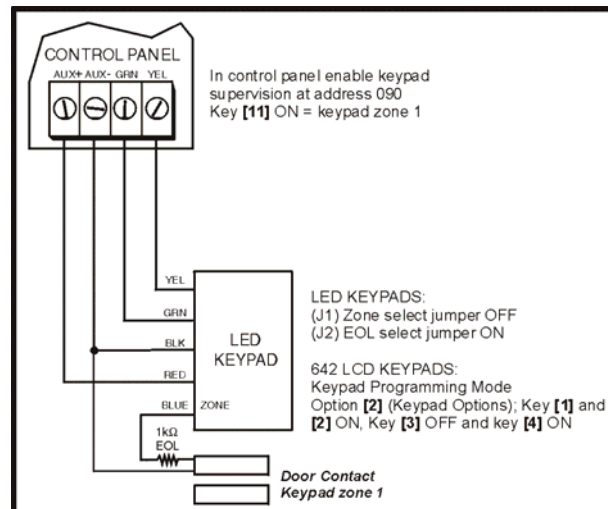


Figure 11: Parallel Wiring



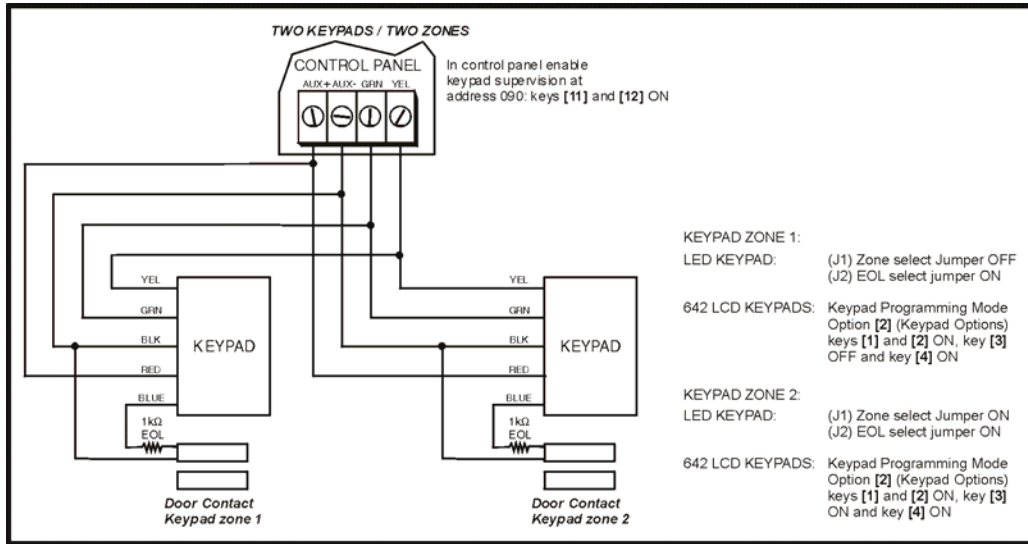
## OTHER CONNECTION DIAGRAMS

Figure 12: Connecting One Keypad Zone

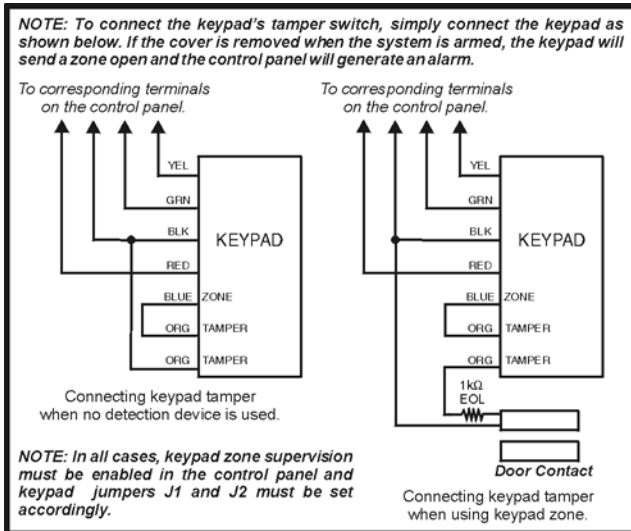


When connecting a 642 LCD keypad, connect the RED, BLK, GRN and yel terminals of the LCD keypad to the AUX+, AUX-, GRN and YEL terminals of the control panel. Connect the keypad zone to the z1 terminal of the LCD keypad. For more connection information for the LCD keypad, refer to the 642 LCD Keypad Reference & Installation Manual.

**Figure 13: Connecting Two Keypad Zones Using Two Keypads**

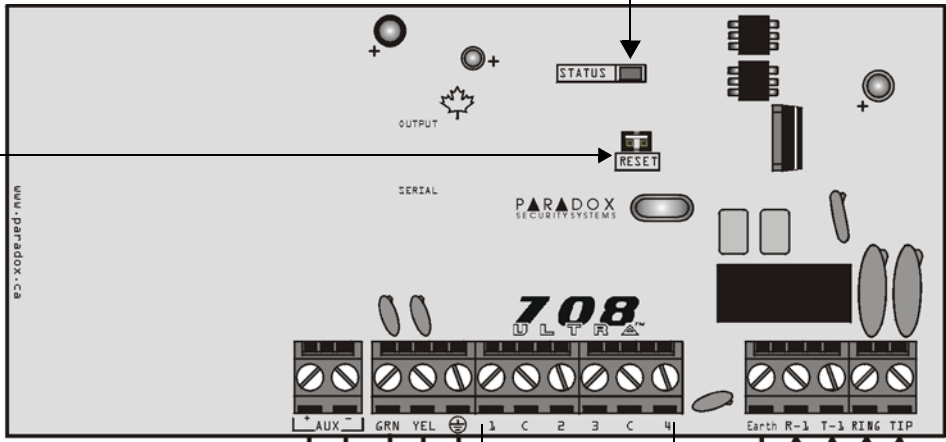
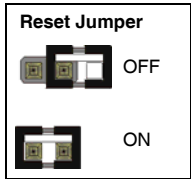


**Figure 14: Keypad Tamper Switch Connection**



# WIRING DIAGRAM

**STATUS LED:**  
 Flash once every sec. = normal  
 Toggle ON 1 sec./ OFF 1 sec. = trouble  
 Always ON = panel is using phone line  
 Fast flash 4 secs. after power up = installer lock enabled



**WARNING:**  
 Disconnect the telephone line before servicing.

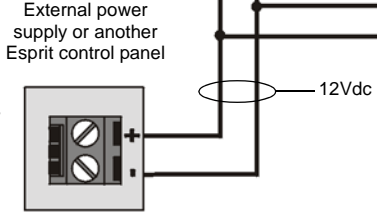
Please refer to Inset 1 for the input terminals. For the hardwired connections, refer to Single Zone Connections on page 9 and Advanced Technology Zone Connections on page 10.

AWG# 14 single conductor solid copper wire

**Note:** For UL installations, the metallic enclosure must be grounded to the cold water pipe or to the grounding rod.

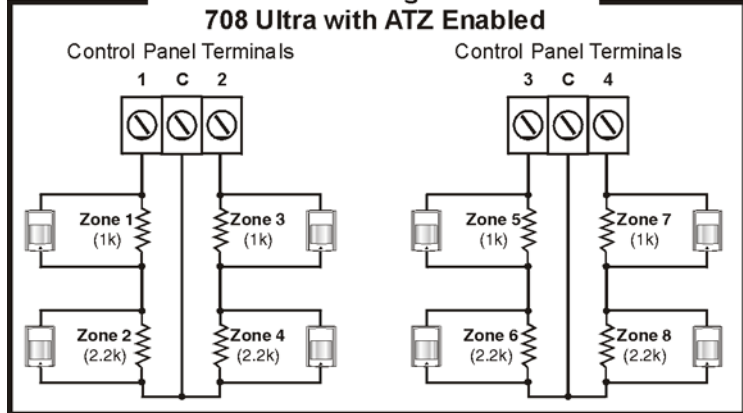
To provide maximum lightning protection we strongly recommend having separate earth connections for the dialer and zone ground terminals.

Power the 708 Ultra by connecting a 12Vdc power source to the AUX terminals of the 708ULT. You can use an external power supply or the AUX outputs of another Esprit control panel to supply 12Vdc to the 708ULT.



**Keypads**  
 - LED Keypads 636 and 646  
 - LCD Keypad 642

## Inset 1: Zone Recognition for the 708 Ultra with ATZ Enabled



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