



# S P E C T R A®

## 1759MG

### System Programming Guide

Software Version 2.0

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#### Default Installer Code

**0000 / 000000** (see section [281] on page 18)

#### Default System Master Code

**1234 / 123456** (see section [301] on page 18)

#### How Do I Enter Programming Mode?

- 1) Press [ENTER].
- 2) Enter your [INSTALLER CODE].
- 3) Enter 3-digit [SECTION] you wish to program.
- 4) Enter required [DATA].

#### Decimal and Hexadecimal Programming Table

| Value or Action      | What Do I Press? | What Do I See?                      |                        |                  |
|----------------------|------------------|-------------------------------------|------------------------|------------------|
|                      |                  | 10-Zone LED                         | 16-Zone LED            | LCD              |
| Values 1 to 9        | [1] to [9]       | [1] to [9]                          | [1] to [9]             | [1] to [9]       |
| A (hex only)         | [0]              | [0 (10)]                            | [10]                   | 0                |
| B (hex only)         | [STAY]           | [STAY]                              | [11]                   | B                |
| C (hex only)         | [BYP]            | [BYP]                               | [12]                   | C                |
| D (hex only)         | [MEM]            | [MEM]                               | [13]                   | D                |
| E (hex only)         | [TBL] / [TRBL]   | [TBL]                               | [14]                   | E                |
| F (hex only)         | [PG] / [FNC1]    | [PG]                                | [15]                   | F                |
| Exit Without Saving  | [CLEAR]          | [ENTER] flashes                     | [ARM1] & [STAY1] flash | "SECTION [    ]" |
| Erase Current Digit  | [FORCE]          | Displays next digit or next section |                        |                  |
| Save Data (hex only) | [ENTER]          | Advances to the next section        |                        |                  |

#### Trouble Display

Press the [TBL] or [TRBL] key to view the Trouble Display. Please note that the keypad can be programmed to emit a BEEP every 5 seconds whenever a new trouble condition has occurred. Press the [TBL] or [TRBL] key to stop the beeping.

[1] - No Battery or Low Battery

[2] - Wireless Transmitter Low Battery

[3] - Power Failure

[4] - Bell Output Disconnected

[5] - Maximum Bell Current

[6] - Maximum Auxiliary Current

[7] - Communicator Report Failure

[8] - Timer Loss\*\*

[9] - Tamper or Zone Wiring Failure\*

[10] - Telephone Line Monitoring Failure

[11]/[STAY] - Fire Loop Trouble\*

[12]/[BYP] - Module Loss

[13]/[MEM] - Wireless Transmitter Supervision Loss\*

[16]/[FORCE] and [TBL]/[TRBL] flashes - Keypad Fault

\* Press the illuminated key ([9], [STAY] or [MEM]) to view which zones are causing the trouble. Enter the Installer Code to clear Tamper troubles.

\*\* Press [8] to re-program the time.



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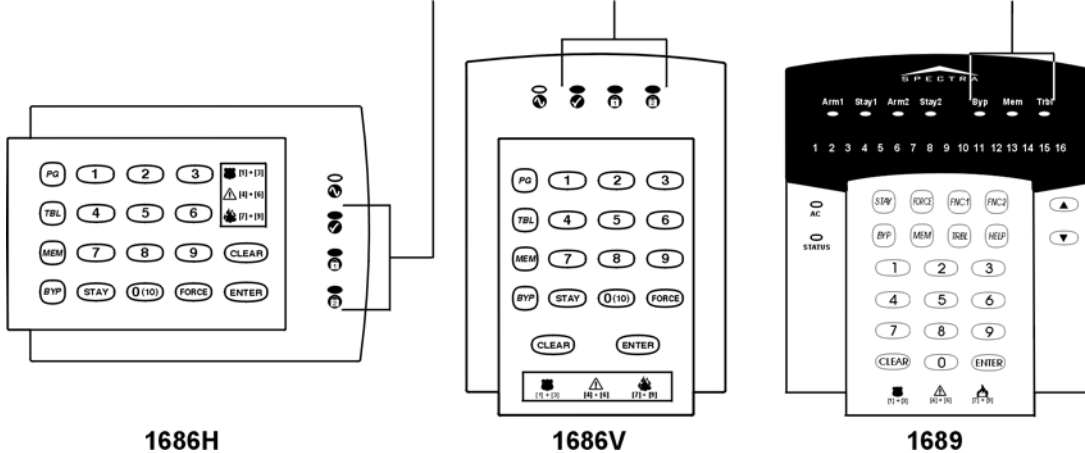
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## Data Display Mode (LED Keypads Only)

View the section's programming one digit at a time. Does not function with sections using Feature Select Programming.

To access the Data Display Mode, press the **[ENTER]** key after entering a section and before entering any data. The three LEDs as indicated below will begin to flash indicating that you are in the Data Display Mode.



Each time the **[ENTER]** key is pressed, the keypad will display the next digit in the current section and will continue through all the following sections one digit at a time without changing the programmed values. Not available for sections using the Multiple Feature Select Method. Press the **[CLEAR]** key at any time to exit the Data Display Mode.

## Configuring the 1686H, 1686V and 1689 Keypads (V2.0 or higher)

The keypad's zone number, EOL definition and anti-tamper switch are programmed through the keypad's programming mode. To do so:

How Do I Configure The Keypad?

- 1) Press **[ENTER]**
- 2) Enter your **[INSTALLER CODE]** (default: 0000 / 000000)
- 3) Press the **[PG]** (1686H/V) / **[FNC1]** (1689) key and hold it for 3 seconds.
- 4) Press the desired key (**[1]** to **[3]**). See below)
- 5) Press **[ENTER]** to exit programming mode



**PLEASE NOTE:** After two minutes, the keypad exits programming mode.

### Key [1] - Keypad Zone Selection

Key **[1]** determines whether the keypad's zone is Keypad Zone 1 or Keypad Zone 2. When key **[1]** is OFF (not illuminated), the keypad's zone is Keypad Zone 1. When key **[1]** is ON (illuminated), the keypad's zone is Keypad Zone 2. Refer to the *Zone Recognition Table* on page 6 for more information.

Key **[1]** OFF - Keypad Zone 1 (default)

Key **[1]** ON - Keypad Zone 2

### Key [2] - EOL Definition

Key **[2]** determines the keypad zone's EOL definition. When key **[2]** is OFF (not illuminated), EOL is disabled and the keypad zone uses the on-board EOL resistor. When key **[2]** is ON (illuminated), EOL is enabled and the keypad zone requires that an external EOL resistor be connected (refer to *Spectra 1759MG PCB Layout* on page 38 for more details).

Key **[2]** OFF - EOL disabled

Key **[2]** ON - EOL enabled (default)

### Key [3] - On-Board Tamper

Key **[3]** enables or disables the keypad's on-board anti-tamper switch. When key **[3]** is OFF (not illuminated), the anti-tamper switch is disabled. When key **[3]** is ON (illuminated), the anti-tamper switch is enabled.

Key **[3]** OFF - On-board anti-tamper switch disabled

Key **[3]** ON - On-board anti-tamper switch enabled



**PLEASE NOTE:** The keypad can be ordered with or without an anti-tamper switch. If the keypad has no anti-tamper switch, key **[3]** will be OFF by default. If the keypad has an anti-tamper switch, key **[3]** will be ON by default.

## Zone Programming

When programming zones, the zone assignments are dependent on where the detection devices are connected to in the system (see *Zone Recognition Table*). In installations that require using mostly the expansion inputs, refer to *Reassign Keypad Zone 2* (see section [126] option [7] on page 12) and *Reassign zones to expansion inputs* (see section [126] option [8] on page 12).



**Do not assign inputs from different modules to the same expansion input.**

Zone Recognition Table

|                      | Option [7]: OFF<br>Option [8]: OFF | Option [7]: ON<br>Option [8]: OFF | Option [7]: OFF<br>Option [8]: ON | Option [7]: ON<br>Option [8]: ON |
|----------------------|------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|
| <b>Control Panel</b> |                                    |                                   |                                   |                                  |
| Input 1 =            | Zone 1                             | Zone 1                            | Zone 1                            | Zone 1                           |
| Input 2 =            | Zone 2                             | Zone 2                            | Zone 2                            | Zone 2                           |
| Input 3 =            | Zone 3                             | Zone 3                            | N/A                               | N/A                              |
| Input 4 =            | Zone 4                             | Zone 4                            | N/A                               | N/A                              |
| Input 5 =            | Zone 5                             | Zone 5                            | N/A                               | N/A                              |
| <b>Keypad</b>        |                                    |                                   |                                   |                                  |
| Zone 1 =             | Zone 6                             | Zone 6                            | Zone 3                            | Zone 3                           |
| Zone 2 =             | Zone 7                             | N/A                               | Zone 4                            | N/A                              |
| <b>Expansion</b>     |                                    |                                   |                                   |                                  |
| Input 1 =            | Zone 8                             | Zone 7                            | Zone 5                            | Zone 4                           |
| Input 2 =            | Zone 9                             | Zone 8                            | Zone 6                            | Zone 5                           |
| Input 3 =            | Zone 10                            | Zone 9                            | Zone 7                            | Zone 6                           |
| Input 4 =            | Zone 11                            | Zone 10                           | Zone 8                            | Zone 7                           |
| Input 5 =            | Zone 12                            | Zone 11                           | Zone 9                            | Zone 8                           |
| Input 6 =            | Zone 13                            | Zone 12                           | Zone 10                           | Zone 9                           |
| Input 7 =            | Zone 14                            | Zone 13                           | Zone 11                           | Zone 10                          |
| Input 8 =            | Zone 15                            | Zone 14                           | Zone 12                           | Zone 11                          |

 = not displayed on 10-Zone LED Keypads

**Option [7]** = Reassign Keypad Zone 2

**Option [8]** = Reassign zones to expansion inputs

### How Do I Program the Zones?

- 1) Press the [ENTER] key
- 2) Enter the [INSTALLER CODE] (Default: 0000 / 000000)
- 3) Enter 3-digit [SECTION]
- 4) Enter one digit from the **Zone Definition** table (see page 7)
- 5) Enter one digit from the **Partition Assignment** table (see page 7)
- 6) Select one or more options from the **Zone Options** table (see page 7)
- 7) Press the [ENTER] key

#### Zone Definition

**Empty** - Zone Disabled

- 1 - Entry Delay 1
- 2 - Entry Delay 2
- 3 - Follow
- 4 - Instant
- 5 - 24Hr Burglary
- 6 - 24Hr Buzzer

Additional definitions for on-board terminals:

- 7 - Keyswitch
- 8 - Fire 24Hr
- 9 - Delayed Fire 24Hr



[FORCE] key = empty

#### Partition Assignment

**Empty** - Zone Disabled

- 1 - Partition 1
- 2 - Partition 2
- 3 - Both Partitions

#### Zone Options

- 1 - Auto Zone Shutdown
- 2 - Bypass Enabled
- 3 - Stay Zone

#### 4 - 5 - Zone Alarm Type

- off off Audible alarm (steady)
- off on Audible alarm (pulsed)
- on off Silent alarm
- on on Generates a report only

- 6 - Intellizone
- 7 - Delay alarm transmission
- 8 - Force Zone

#### Keyswitch Options

- 1 - off = Maintained  
on = Momentary
- 2 - off = Regular Arm  
on = Stay Arm

First Digit

Second Digit

| Section          | Description | Zone Definition | Partition Assignment | Zone Options    |
|------------------|-------------|-----------------|----------------------|-----------------|
| [001] = Zone 01: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [002] = Zone 02: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [003] = Zone 03: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [004] = Zone 04: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [005] = Zone 05: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [006] = Zone 06: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [007] = Zone 07: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [008] = Zone 08: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [009] = Zone 09: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [010] = Zone 10: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [011] = Zone 11: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [012] = Zone 12: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [013] = Zone 13: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [014] = Zone 14: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| [015] = Zone 15: |             |                 |                      | 1 2 3 4 5 6 7 8 |
| Defaults =       |             | Empty           | Partition 1          | 1 and 2 ON      |

**⚠ Only the control panel's on-board inputs can be defined as a Fire, Delayed Fire or a Keyswitch zone.**

**The on-board zones are zones 01 to 05. To program a wireless fire zone, refer to Programming a Wireless Fire Zone on page 36.**

## System Timers

| Section # | Decimal Value (000 to 255)                                                     | Description                             | Default    |
|-----------|--------------------------------------------------------------------------------|-----------------------------------------|------------|
| [050]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 1)                     | 600 msec.  |
| [051]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 2)                     | 600 msec.  |
| [052]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 3)                     | 600 msec.  |
| [053]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 4)                     | 600 msec.  |
| [054]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 5)                     | 600 msec.  |
| [055]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 6)                     | 600 msec.  |
| [056]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 7)                     | 600 msec.  |
| [057]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 8)                     | 600 msec.  |
| [058]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 9)                     | 600 msec.  |
| [059]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 10)                    | 600 msec.  |
| [060]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 11)                    | 600 msec.  |
| [061]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 12)                    | 600 msec.  |
| [062]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 13)                    | 600 msec.  |
| [063]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 14)                    | 600 msec.  |
| [064]     | ___/___/___ x 10 msec.                                                         | ZONE SPEED (ZONE 15)                    | 600 msec.  |
| [065]     |                                                                                | FUTURE USE                              |            |
| [066]     | ___/___/___ seconds (000 = follow Deactivation Event)                          | PGM1 TIMER                              | 5 sec.     |
| [067]     | ___/___/___ seconds (000 = follow Deactivation Event)                          | PGM2 TIMER                              | 5 sec.     |
| [068]     | ___/___/___ seconds (000 = follow Deactivation Event)                          | GLOBAL PGM TIMER                        | 5 sec.     |
| [069]     | ___/___/___ seconds                                                            | ENTRY DELAY 1                           | 45 sec.    |
| [070]     | ___/___/___ seconds                                                            | ENTRY DELAY 2                           | 45 sec.    |
| [071]     | ___/___/___ seconds                                                            | EXIT DELAY 1                            | 30 sec.    |
| [072]     | ___/___/___ seconds                                                            | EXIT DELAY 2                            | 30 sec.    |
| [073]     | ___/___/___ minutes (000 = no bell on alarm)                                   | BELL CUT-OFF TIMER (PARTITION 1)        | 4 min.     |
| [074]     | ___/___/___ minutes (000 = no bell on alarm)                                   | BELL CUT-OFF TIMER (PARTITION 2)        | 4 min.     |
| [075]     | ___/___/___ x 15 minutes (000 = disabled)                                      | NO MOVEMENT TIMER (PARTITION 1)         | Disabled   |
| [076]     | ___/___/___ x 15 minutes (000 = disabled)                                      | NO MOVEMENT TIMER (PARTITION 2)         | Disabled   |
| [077]     | ___/___/___ seconds (minimum 10 sec.)                                          | ANSWERING MACHINE OVERRIDE DELAY        | Disabled   |
| [078]     | ___/___/___ (000 = no answer, maximum = 15 rings)                              | NUMBER OF RINGS                         | 8 rings    |
| [079]     | ___/___/___ x 2 sec. (minimum 32 sec.)                                         | TLM FAIL TIMER                          | 32 sec.    |
| [080]     | ___/___/___ seconds                                                            | DELAY ALARM TRANSMISSION                | Disabled   |
| [081]     | ___/___/___ (000 = 16, maximum = 16)                                           | MAXIMUM DIALING ATTEMPTS                | 8 attempts |
| [082]     | ___/___/___ seconds                                                            | DELAY BETWEEN ATTEMPTS                  | 20 sec.    |
| [083]     | ___/___/___ seconds                                                            | PAGER DELAY                             | 5 sec.     |
| [084]     | ___/___/___ seconds (minimum 10 sec.)                                          | INTELLIZONE DELAY                       | 48 sec.    |
| [085]     | ___/___/___ seconds                                                            | RECENT CLOSING DELAY                    | No delay   |
| [086]     | ___/___/___ minutes                                                            | POWER FAILURE REPORT DELAY              | 15 min.    |
| [087]     | ___/___/___ days (000 = disabled)                                              | AUTO TEST REPORT                        | Disabled   |
| [088]     | ___/___/___ 000 to 127 = +1 to +127 seconds<br>128 to 255 = -1 to -127 seconds | CLOCK ADJUST                            | Disabled   |
| [089]     | ___/___/___ (000 = disabled, maximum = 15)                                     | AUTO ZONE SHUTDOWN COUNTER              | 5          |
| [090]     | ___/___/___ minutes (000 = disabled)                                           | RECYCLE ALARM DELAY                     | Disabled   |
| [091]     | ___/___/___ (000 = disabled)                                                   | RECYCLE ALARM COUNTER                   | Disabled   |
| [092]     | ___/___/___ attempts before locking (000 = disabled)                           | KEYPAD LOCKOUT                          | Disabled   |
| [093]     | ___/___/___ minutes (000 = disabled)                                           | KEYPAD LOCKOUT DELAY                    | Disabled   |
| [094]     | ___/___/___ seconds (000 = disabled)                                           | PANIC LOCKOUT TIMER                     | Disabled   |
| [095]     | ___/___/___ days (000 = disabled)                                              | CLOSING DELINQUENCY TIMER (PARTITION 1) | Disabled   |
| [110]     | ___/___ : ___/___ hours (00 to 23) : minutes (00 to 59)                        | AUTO TEST REPORT (TIME OF DAY)          | Disabled   |
| [111]     | ___/___ : ___/___ hours (00 to 23) : minutes (00 to 59)                        | AUTO-ARM TIME (PARTITION 1)             | Disabled   |
| [112]     | ___/___ : ___/___ hours (00 to 23) : minutes (00 to 59)                        | AUTO-ARM TIME (PARTITION 2)             | Disabled   |

## Programmable Outputs

Each PGM Deactivation event can be used as another start (activation) event if their respective PGM timer (see sections [066] to [068]) is programmed with a value other than 000.

Example: section [120] = 05 03 02: this means PGM1 will activate whenever partition 2 is Stay Armed.

| Section # |                                                                                               | Event Group # | Sub-Group # | Partition # |                                                                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------|---------------|-------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [120]     | PGM 1 PGM Activation Event                                                                    | ___/___       | ___/___     | ___/___     | <div>01 = Partition 1<br/>02 = Partition 2<br/>99 = Any Partition</div> <div>The Sub-Groups preceded by<br/>“(Partition 1)” cannot be<br/>assigned to activate Partition 2.</div> |
| [121]     | PGM 1 PGM Deactivation Event                                                                  | ___/___       | ___/___     | ___/___     |                                                                                                                                                                                   |
| [122]     | PGM 2 PGM Activation Event                                                                    | ___/___       | ___/___     | ___/___     |                                                                                                                                                                                   |
| [123]     | PGM 2 PGM Deactivation Event                                                                  | ___/___       | ___/___     | ___/___     |                                                                                                                                                                                   |
| [124]     | Global PGM Activation Event                                                                   | ___/___       | ___/___     | ___/___     |                                                                                                                                                                                   |
| [125]     | Global PGM Deactivation Event<br>Used to activate PGMs on<br>expansion modules & LCD keypads. | ___/___       | ___/___     | ___/___     |                                                                                                                                                                                   |

| Event Group #                                                       | Sub-Group #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00 = Zone OK                                                        | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 01 = Zone Open                                                      | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 02 = Partition Status                                               | 00 = System not ready ( <i>Partition 1 only</i> )<br>01 = System ready ( <i>Partition 1 only</i> )<br>02 = Steady Alarm in Partition<br>03 = Pulsed Alarm in Partition<br>04 = Pulsed or Steady Alarm in Partition<br>05 = Alarm in Partition Restored<br>06 = Bell Squawk Activated ( <i>Partition 1 only</i> )<br>07 = Bell Squawk Deactivated ( <i>Partition 1 only</i> )<br>08 = Ground start ( <i>Partition 1 only</i> )<br>09 = Disarm Partition<br>10 = Arm Partition<br>11 = Entry Delay (breach when system is armed)<br>99 = Any Sub-Group |
| 05 = Non-Reportable Events                                          | 00 = Telephone Line Trouble ( <i>Partition 1 only</i> )<br>01 = [PG] or [FNC1] key was pressed ( <i>Partition 1 only</i> ). This option can also be used to reset smoke detectors.<br>02 = Instant Arming<br>03 = Stay Arming<br>04 = Force Arming<br>05 = Fast Exit (Force & Regular Only)<br>06 = PC Fail to Communicate ( <i>Partition 1 only</i> )<br>07 = Midnight ( <i>Partition 1 only</i> )<br>99 = Any Sub-Group ( <i>Partition 1 only, except 02 to 05</i> )                                                                               |
| 06 = Arm/Disarm with Remote Control                                 | 01 to 08 = Remote Controls 1 to 8<br>99 = Any Remote Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 07 = Button Pressed on Remote<br>(see button option “B” on page 25) | 01 to 08 = Remote Controls 1 to 8<br>99 = Any Remote Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 08 = Button Pressed on Remote<br>(see button option “C” on page 25) | 01 to 08 = Remote Controls 1 to 8<br>99 = Any Remote Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Event Group #                                                              | Sub-Group #                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>09 = Button Pressed on Remote</b><br>(see button option "D" on page 25) | 01 to 08 = Remote Controls 1 to 8<br>99 = Any Remote Control                                                                                                                                                                                                                                                   |
| <b>10 = Bypass Programming</b>                                             | 01 to 48 = User Code Numbers 001 to 048<br>99 = Any User Code                                                                                                                                                                                                                                                  |
| <b>11 = User Activated PGM</b>                                             | 01 to 48 = User Code Numbers 001 to 048 ( <i>Partition 1 only</i> )<br>99 = Any User Code                                                                                                                                                                                                                      |
| <b>12 = Zone with Delay Transmission Option Enabled is Breached</b>        | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                      |
| <b>13 = Arm with User Code</b>                                             | 01 to 48 = User Code Numbers 001 to 048<br>99 = Any User Code                                                                                                                                                                                                                                                  |
| <b>14 = Special Arm</b>                                                    | 00 = Auto Arming (timed/no movement)<br>01 = Late to Close (Auto-Arming failed)<br>02 = No Movement Auto-Arming<br>03 = Partial Arming (Stay, Force, Instant, Bypass)<br>04 = One-Touch Arming<br>05 = Arm with WinLoad Software<br>07 = Closing Delinquency ( <i>Partition 1 only</i> )<br>99 = Any Sub-Group |
| <b>15 = Disarm with User Code</b>                                          | 01 to 48 = User Code Numbers 001 to 048<br>99 = Any User Code                                                                                                                                                                                                                                                  |
| <b>16 = Disarm After Alarm w/ User Code</b>                                | 01 to 48 = User Code Numbers 001 to 048<br>99 = Any User Code                                                                                                                                                                                                                                                  |
| <b>17 = Cancel Alarm with User Code</b>                                    | 01 to 48 = User Code Numbers 001 to 048<br>99 = Any User Code                                                                                                                                                                                                                                                  |
| <b>18 = Special Disarm</b>                                                 | 00 = Cancel Auto Arm (timed/no movement)<br>01 = Disarm with WinLoad Software<br>02 = Disarm after alarm with WinLoad Software<br>03 = Cancel Alarm with WinLoad Software<br>99 = Any Sub-Group                                                                                                                |
| <b>19 = Zone Bypassed on Arming</b>                                        | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                      |
| <b>20 = Zone in Alarm</b>                                                  | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                      |
| <b>21 = Fire Alarm</b>                                                     | 01 to 05 = Zones 1 to 5 (on-board inputs)<br>99 = Any Zone                                                                                                                                                                                                                                                     |
| <b>22 = Zone Alarm Restore</b>                                             | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                      |
| <b>23 = Fire Alarm Restore</b>                                             | 01 to 05 = Zones 1 to 5 (on-board inputs)<br>99 = Any Zone                                                                                                                                                                                                                                                     |
| <b>24 = Special Alarm</b>                                                  | 00 = Emergency Panic<br>01 = Auxiliary Panic<br>02 = Fire Panic<br>03 = Recent Closing<br>04 = Auto Zone Shutdown<br>05 = Duress Alarm<br>06 = Keypad Lockout<br>99 = Any Sub-Group                                                                                                                            |
| <b>25 = Auto Zone Shutdown</b>                                             | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                      |
| <b>26 = Zone Tamper</b>                                                    | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                      |
| <b>27 = Zone Tamper Restore</b>                                            | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                      |

| Event Group #                                             | Sub-Group #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>28 = System Trouble</b>                                | 01 = AC Loss: only after Power Failure Delay has elapsed ( <i>Partition 1 only</i> )<br>02 = Battery Failure ( <i>Partition 1 only</i> )<br>03 = Auxiliary current overload ( <i>Partition 1 only</i> )<br>04 = Bell current overload ( <i>Partition 1 only</i> )<br>05 = Bell disconnected ( <i>Partition 1 only</i> )<br>06 = Timer Loss ( <i>Partition 1 only</i> )<br>07 = Fire Loop Trouble ( <i>Partition 1 only</i> )<br>08 = Future Use<br>09 = Module Fault ( <i>Partition 1 only</i> )<br>10 = Printer Fault ( <i>Partition 1 only</i> )<br>11 = Fail to Communicate ( <i>Partition 1 only</i> )<br>99 = Any Sub-Group ( <i>Partition 1 only</i> )                                                                                         |
| <b>29 = System Trouble Restore</b>                        | 00 = TLM restore ( <i>Partition 1 only</i> )<br>01 = AC Loss restore ( <i>Partition 1 only</i> )<br>02 = Battery Failure restore ( <i>Partition 1 only</i> )<br>03 = Auxiliary current overload restore ( <i>Partition 1 only</i> )<br>04 = Bell current overload restore ( <i>Partition 1 only</i> )<br>05 = Bell disconnected restore ( <i>Partition 1 only</i> )<br>06 = Timer Programmed ( <i>Partition 1 only</i> )<br>07 = Fire Loop Trouble restore ( <i>Partition 1 only</i> )<br>08 = Future Use<br>09 = Module Fault restore ( <i>Partition 1 only</i> )<br>10 = Printer Fault restore ( <i>Partition 1 only</i> )<br>11 = Fail to Communicate restore ( <i>Partition 1 only</i> )<br>99 = Any Trouble Restore ( <i>Partition 1 only</i> ) |
| <b>30 = Special Reporting</b>                             | 00 = System Power Up ( <i>Partition 1 only</i> )<br>01 = Test Report ( <i>Partition 1 only</i> )<br>02 = WinLoad Software Access ( <i>Partition 1 only</i> )<br>03 = WinLoad Software Access finished ( <i>Partition 1 only</i> )<br>04 = Installer enters programming mode ( <i>Partition 1 only</i> )<br>05 = Installer exits programming mode ( <i>Partition 1 only</i> )<br>99 = Any Sub-Group ( <i>Partition 1 only</i> )                                                                                                                                                                                                                                                                                                                       |
| <b>31 = Wireless Transmitter Supervision Loss</b>         | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>32 = Wireless Transmitter Supervision Loss Restore</b> | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>33 = Arming with a Keyswitch</b>                       | 01 to 05 = Zones 1 to 5 (on-board inputs)<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>34 = Disarming with a Keyswitch</b>                    | 01 to 05 = Zones 1 to 5 (on-board inputs)<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>35 = Disarm after Alarm with a Keyswitch</b>           | 01 to 05 = Zones 1 to 5 (on-board inputs)<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>36 = Cancel Alarm with a Keyswitch</b>                 | 01 to 05 = Zones 1 to 5 (on-board inputs)<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>37 = Wireless Transmitter Low Battery</b>              | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>38 = Wireless Transmitter Low Battery Restore</b>      | 01 to 15 = Zones 1 to 15<br>99 = Any Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Event Group #                                  | Sub-Group #                        | Partition #                           |
|------------------------------------------------|------------------------------------|---------------------------------------|
| <b>80 = PGM follows Clock (APR3-PGM4 only)</b> | HH = hour according to 24hr. clock | MM = minutes according to 24hr. clock |

## System Options

**Bold** = Default Setting

### Section [126]: General Options

| Option                                         | OFF                                           | ON                                              |
|------------------------------------------------|-----------------------------------------------|-------------------------------------------------|
| [1] <i>Confidential Mode</i>                   | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Enabled                |
| [2] <i>To exit Confidential Mode</i>           | <input type="checkbox"/> Enter Access Code    | <input type="checkbox"/> Press a Key            |
| [3] <i>Confidential Mode timer</i>             | <input type="checkbox"/> 2 minutes            | <input type="checkbox"/> 5 seconds              |
| [4] <i>PGM1 normal state</i>                   | <input type="checkbox"/> Normally Open (N.O.) | <input type="checkbox"/> Normally Closed (N.C.) |
| [5] <i>PGM2 normal state</i>                   | <input type="checkbox"/> Normally Open (N.O.) | <input type="checkbox"/> Normally Closed (N.C.) |
| [6] <i>Global PGM normal state</i>             | <input type="checkbox"/> Normally Open (N.O.) | <input type="checkbox"/> Normally Closed (N.C.) |
| [7] <i>Reassign Keypad Zone 2*</i>             | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Enabled                |
| [8] <i>Reassign zones to expansion inputs*</i> | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Enabled                |

\* *Reassign Keypad Zone 2* and *Reassign zones to expansion inputs* change the zone numbering to increase the number of expansion inputs that can be displayed on 10-Zone LED Keypads. Refer to the *Zone Recognition Table* on page 6 and the *Spectra 1759MG Reference & Installation Manual* for details.

### Section [127]: General Options

| Option                                    | OFF                                  | ON                                  |
|-------------------------------------------|--------------------------------------|-------------------------------------|
| [1] <i>Partitioning</i>                   | <input type="checkbox"/> Disabled    | <input type="checkbox"/> Enabled    |
| [2] <i>Access code length</i>             | <input type="checkbox"/> 6-digits    | <input type="checkbox"/> 4-digits   |
| [3] <i>Keypad audible trouble warning</i> | <input type="checkbox"/> Disabled    | <input type="checkbox"/> Enabled    |
| [4] <i>Lock System Master Code</i>        | <input type="checkbox"/> Disabled    | <input type="checkbox"/> Enabled    |
| [5] <i>Battery charge current</i>         | <input type="checkbox"/> 350mA       | <input type="checkbox"/> 700mA      |
| [6] <i>User Code 048 is a Duress Code</i> | <input type="checkbox"/> Disabled    | <input type="checkbox"/> Enabled    |
| [7] <i>Alarm relay follows</i>            | <input type="checkbox"/> Bell Output | <input type="checkbox"/> Global PGM |
| [8] <i>Future use</i>                     | <input type="checkbox"/> N/A         | <input type="checkbox"/> N/A        |

### Section [128]: General Options

| Option                                 | OFF                               | ON                               |
|----------------------------------------|-----------------------------------|----------------------------------|
| [1] <i>Panic 1: keys [1] &amp; [3]</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled |
| [2] <i>Panic 2: keys [4] &amp; [6]</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled |
| [3] <i>Panic 3: keys [7] &amp; [9]</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled |
| [4] <i>Panic 1: silent or audible</i>  | <input type="checkbox"/> Silent   | <input type="checkbox"/> Audible |
| [5] <i>Panic 2: silent or audible</i>  | <input type="checkbox"/> Silent   | <input type="checkbox"/> Audible |
| [6] <i>Panic 3: silent or fire</i>     | <input type="checkbox"/> Silent   | <input type="checkbox"/> Fire    |
| [7] <i>Keypad 1 tamper supervision</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled |
| [8] <i>Keypad 2 tamper supervision</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled |

### Section [129]: General Options

| Option                                                     | OFF                               | ON                                     |
|------------------------------------------------------------|-----------------------------------|----------------------------------------|
| [1] <i>PGM2 output activation option</i>                   | <input type="checkbox"/> Steady   | <input type="checkbox"/> Pulse (flash) |
| [2] <i>PGM2 pulse once every 30 sec. if system armed</i>   | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled       |
| [3] <i>PGM2 pulse on Arm, twice on Disarm</i>              | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled       |
| [4] <i>ZX4 &amp; ZX8 zone expansion module supervision</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled       |
| [5] <i>Future use</i>                                      | <input type="checkbox"/> N/A      | <input type="checkbox"/> N/A           |
| [6] <i>Wireless module low battery supervision</i>         | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled       |
| [7] <i>4-PGM Output Module supervision (APR3-PGM4)</i>     | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled       |
| [8] <i>Printer Module supervision (APR3-PRT1)</i>          | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled       |

**Bold = Default Setting**

## Section [130]: Arming/Disarming Options

| Option |                                       | OFF                               | ON                                      |
|--------|---------------------------------------|-----------------------------------|-----------------------------------------|
| [1]    | One-touch Regular Arming              | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled        |
| [2]    | One-touch Stay Arming                 | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled        |
| [3]    | One-touch Force Arming                | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled        |
| [4]    | One-touch bypass programming          | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled        |
| [5]    | Restrict arming on battery failure    | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled        |
| [6]    | Restrict arming on Tamper failure     | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled        |
| [7]    | Bell Squawk on Arm/Disarm with keypad | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled        |
| [8]    | Beep on exit delay                    | <input type="checkbox"/> Disabled | <input type="checkbox"/> <b>Enabled</b> |

## Section [131]: Arming/Disarming Options

| Option |                                                                                      | OFF                               | ON                                               |
|--------|--------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------|
| [1]    | Report Disarming                                                                     | <input type="checkbox"/> Always   | <input type="checkbox"/> <b>Only after alarm</b> |
| [2]    | Regular Arming switches to Force Arming *                                            | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled                 |
| [3]    | Bell Squawk on Arm/Disarm with remote control (must be enabled for UL installations) | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled                 |
| [4]    | No exit delay when Arming with a remote control                                      | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled                 |
| [5]    | No exit delay beeps and no Bell Squawk when Stay Arming                              | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled                 |
| [6]    | Restrict arming on wireless transmitter supervision loss                             | <input type="checkbox"/> Disabled | <input type="checkbox"/> Enabled                 |
| [7]    | Generate supervision loss if detected on bypassed wireless zone                      | <input type="checkbox"/> Yes      | <input type="checkbox"/> No                      |
| [8]    | Future Use                                                                           | <input type="checkbox"/> N/A      | <input type="checkbox"/> N/A                     |

\* This option cannot be done using a keyswitch. Force arming is not supported by keyswitches.

## Section [132]: Zone Options

Option

[1]&[2]

| Tamper Recognition Options |     |                                                                                       |
|----------------------------|-----|---------------------------------------------------------------------------------------|
| [1]                        | [2] |                                                                                       |
| OFF                        | OFF | <b>Disabled</b> (default)                                                             |
| OFF                        | ON  | When disarmed: GENERATES TROUBLE ONLY<br>When armed: Follows <i>Zone Alarm Types</i>  |
| ON                         | OFF | When disarmed: GENERATES SILENT ALARM<br>When armed: Follows <i>Zone Alarm Types</i>  |
| ON                         | ON  | When disarmed: GENERATES AUDIBLE ALARM<br>When armed: Follows <i>Zone Alarm Types</i> |

[3]

Generate tamper if detected on bypassed zone

[4]

EOL (end-of-line) resistors

[5]

Future use

[6]

Report zone restore

[7]&[8]

| Wireless Transmitter Supervision Options |     |                                                                                       |
|------------------------------------------|-----|---------------------------------------------------------------------------------------|
| [7]                                      | [8] |                                                                                       |
| OFF                                      | OFF | <b>Disabled</b> (default)                                                             |
| OFF                                      | ON  | When disarmed: GENERATES TROUBLE ONLY<br>When armed: Follows <i>Zone Alarm Types</i>  |
| ON                                       | OFF | When disarmed: GENERATES SILENT ALARM<br>When armed: Follows <i>Zone Alarm Types</i>  |
| ON                                       | ON  | When disarmed: GENERATES AUDIBLE ALARM<br>When armed: Follows <i>Zone Alarm Types</i> |

OFF

☐ see table

☐ see table

ON

☐ see table

☐ see table

☐ Yes

☐ No

☐ No EOL

☐ Use EOL Resistors

☐ N/A

☐ N/A

☐ On Bell Cut-off

☐ On Zone Closure

☐ see table

☐ see table

☐ see table

☐ see table

**Bold = Default Setting**

### Section [133]: Partition 1 Options

| Option                                                        | OFF                                            | ON                                   |
|---------------------------------------------------------------|------------------------------------------------|--------------------------------------|
| [1] <i>Auto-arm on time</i>                                   | <input type="checkbox"/> <b>Disabled</b>       | <input type="checkbox"/> Enabled     |
| [2] <i>Auto-arm on no movement</i>                            | <input type="checkbox"/> <b>Disabled</b>       | <input type="checkbox"/> Enabled     |
| [3] <i>Auto Arming = Regular or Stay</i>                      | <input type="checkbox"/> <b>Regular Arming</b> | <input type="checkbox"/> Stay Arming |
| [4] <i>Switch to Stay Arming if no entry delay is opened</i>  | <input type="checkbox"/> <b>Disabled</b>       | <input type="checkbox"/> Enabled     |
| [5] <i>Stay Arming with Delay Partition 1 (Delay = [070])</i> | <input type="checkbox"/> <b>Disabled</b>       | <input type="checkbox"/> Enabled     |
| [6] to [8] <i>Future use</i>                                  | <input type="checkbox"/> N/A                   | <input type="checkbox"/> N/A         |

### Section [134]: Partition 2 Options

| Option                                                        | OFF                                            | ON                                   |
|---------------------------------------------------------------|------------------------------------------------|--------------------------------------|
| [1] <i>Auto-arm on time</i>                                   | <input type="checkbox"/> <b>Disabled</b>       | <input type="checkbox"/> Enabled     |
| [2] <i>Auto-arm on no movement</i>                            | <input type="checkbox"/> <b>Disabled</b>       | <input type="checkbox"/> Enabled     |
| [3] <i>Auto Arming = Regular or Stay</i>                      | <input type="checkbox"/> <b>Regular Arming</b> | <input type="checkbox"/> Stay Arming |
| [4] <i>Switch to Stay Arming if no entry delay is opened</i>  | <input type="checkbox"/> <b>Disabled</b>       | <input type="checkbox"/> Enabled     |
| [5] <i>Stay Arming with Delay Partition 2 (Delay = [070])</i> | <input type="checkbox"/> <b>Disabled</b>       | <input type="checkbox"/> Enabled     |
| [6] to [8] <i>Future use</i>                                  | <input type="checkbox"/> N/A                   | <input type="checkbox"/> N/A         |

### Section [135]: Dialer Options

| Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OFF                                                                      | ON                                                                       |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------|--|--|-----|-----|--|-----|-----|-------------------------------|-----|----|----------------------------------|----|-----|-----------------------------------------|----|----|------------------------------|
| [1] & [2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> see table<br><input type="checkbox"/> see table | <input type="checkbox"/> see table<br><input type="checkbox"/> see table |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| <table border="1"><thead><tr><th colspan="3">Telephone Line Monitoring (TLM) Options</th></tr><tr><th>[1]</th><th>[2]</th><th></th></tr></thead><tbody><tr><td>OFF</td><td>OFF</td><td><b>TLM Disabled</b> (default)</td></tr><tr><td>OFF</td><td>ON</td><td>TLM generates a trouble if armed</td></tr><tr><td>ON</td><td>OFF</td><td>TLM generates an audible alarm if armed</td></tr><tr><td>ON</td><td>ON</td><td>Silent alarms become audible</td></tr></tbody></table> |                                                                          |                                                                          | Telephone Line Monitoring (TLM) Options |  |  | [1] | [2] |  | OFF | OFF | <b>TLM Disabled</b> (default) | OFF | ON | TLM generates a trouble if armed | ON | OFF | TLM generates an audible alarm if armed | ON | ON | Silent alarms become audible |
| Telephone Line Monitoring (TLM) Options                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                          |                                                                          |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| [1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | [2]                                                                      |                                                                          |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OFF                                                                      | <b>TLM Disabled</b> (default)                                            |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ON                                                                       | TLM generates a trouble if armed                                         |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OFF                                                                      | TLM generates an audible alarm if armed                                  |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ON                                                                       | Silent alarms become audible                                             |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| [3] <i>Reporting (Dialer)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> <b>Disabled</b>                                 | <input type="checkbox"/> Enabled                                         |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| [4] <i>Dialing method</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> Pulse Dialing                                   | <input type="checkbox"/> <b>Tone (DTMF) Dialing</b>                      |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| [5] <i>Pulse ratio</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> 1:2                                             | <input type="checkbox"/> <b>1:1.5</b>                                    |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| [6] <i>If armed, activate bell output on Com. Failure</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> <b>Disabled</b>                                 | <input type="checkbox"/> Enabled                                         |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |
| [7] & [8] <i>Future use</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> N/A                                             | <input type="checkbox"/> N/A                                             |                                         |  |  |     |     |  |     |     |                               |     |    |                                  |    |     |                                         |    |    |                              |

### Section [136]: Dialer Options

| Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | OFF                                                                      | ON                                                                       |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|--|--|-----|-----|--|-----|-----|--------------------------------------------------------|-----|----|----------------------------------------|----|-----|----------------------------------------|----|----|----------------------------------------|
| [1] <i>Call back WinLoad</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> <b>Disabled</b>                                 | <input type="checkbox"/> Enabled                                         |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| [2] <i>Automatic event buffer transmission</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> <b>Disabled</b>                                 | <input type="checkbox"/> Enabled                                         |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| [3] <i>Contact I.D. report codes</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> Programmable                                    | <input type="checkbox"/> <b>All Codes (automatic)</b>                    |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| [4] <i>Alternate dial</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> <b>Disabled</b>                                 | <input type="checkbox"/> Enabled                                         |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| [5] <i>If no dial tone is present</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> <b>Continue after 4 sec.</b>                    | <input type="checkbox"/> Hang-up after 16 sec.                           |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| [6] & [7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> see table<br><input type="checkbox"/> see table | <input type="checkbox"/> see table<br><input type="checkbox"/> see table |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| <table border="1"><thead><tr><th colspan="3">Pager Reporting Format Dialer Options</th></tr><tr><th>[6]</th><th>[7]</th><th></th></tr></thead><tbody><tr><td>OFF</td><td>OFF</td><td><b>1 call to pager or cellular telephone</b> (default)</td></tr><tr><td>OFF</td><td>ON</td><td>2 calls to pager or cellular telephone</td></tr><tr><td>ON</td><td>OFF</td><td>3 calls to pager or cellular telephone</td></tr><tr><td>ON</td><td>ON</td><td>4 calls to pager or cellular telephone</td></tr></tbody></table> |                                                                          |                                                                          | Pager Reporting Format Dialer Options |  |  | [6] | [7] |  | OFF | OFF | <b>1 call to pager or cellular telephone</b> (default) | OFF | ON | 2 calls to pager or cellular telephone | ON | OFF | 3 calls to pager or cellular telephone | ON | ON | 4 calls to pager or cellular telephone |
| Pager Reporting Format Dialer Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          |                                                                          |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| [6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | [7]                                                                      |                                                                          |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | OFF                                                                      | <b>1 call to pager or cellular telephone</b> (default)                   |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ON                                                                       | 2 calls to pager or cellular telephone                                   |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OFF                                                                      | 3 calls to pager or cellular telephone                                   |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ON                                                                       | 4 calls to pager or cellular telephone                                   |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |
| [8] <i>Pager Format Transmission Options</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> <b>Transmit report code after Pager delay</b>   | <input type="checkbox"/> Transmit report code immediately                |                                       |  |  |     |     |  |     |     |                                                        |     |    |                                        |    |     |                                        |    |    |                                        |

Section [137]: Event Call Direction

Section [138]: Event Call Direction

## Communication Settings

**[140]**    \_\_\_\_ / \_\_\_\_  
          TEL1 TEL2

REPORTING FORMATS

**1** = ADEMCO SLOW (1400HZ, 1900HZ, 10BPS)

**2** = SILENT KNIGHT FAST (1400HZ, 1900HZ, 20BPS)

**3** = SESCOA (2300HZ, 1800HZ, 20BPS)

**4** = ADEMCO EXPRESS (DTMF 4+2)

**5** = **ADEMCO CONTACT ID (DEFAULT)** see option **[3]** in section **[136]** on page 14

**6** = PAGER FORMAT

|              |                 |                                                                                                  |
|--------------|-----------------|--------------------------------------------------------------------------------------------------|
| <b>[141]</b> | ___/___/___/___ | PANEL IDENTIFIER (WINLOAD SOFTWARE)                                                              |
| <b>[142]</b> | ___/___/___/___ | PC PASSWORD (WINLOAD SOFTWARE)                                                                   |
| <b>[143]</b> | ___/___/___/___ | PARTITION ACCOUNT NUMBER 1 (For less than 4 digits, use the <b>[FORCE]</b> key to enter blanks.) |
| <b>[144]</b> | ___/___/___/___ | PARTITION ACCOUNT NUMBER 2 (For less than 4 digits, use the <b>[FORCE]</b> key to enter blanks.) |

| Special Keys for Telephone Numbers |                                                         |                                      |
|------------------------------------|---------------------------------------------------------|--------------------------------------|
| [STAY] = *                         | [MEM] = Switch from pulse to tone dialing or vice versa | [FORCE] = Delete current digit       |
| [BYP] = #                          | [TBL] or [TRBL] = 4-second pause                        | [PG] or [FNC1] = Inserts Blank Space |

## Report Codes

**Ademco Slow, Silent Knight, SESCOA, Ademco Express and Pager Formats:** Enter the desired 1- or 2-digit hex-value (0-F or 00-FF). **Ademco “Programmable” Format:** Enter the desired 2-digit hex values from the “Ademco Report Code List - Programmable” (see *Appendix A* on page 30). Also Note that entering FF will set the report code to the default Ademco Report Code. **Ademco “All Codes” Format:** The control panel automatically generates report codes from the “Ademco Report Code List - All Codes” (see *Appendix B* on page 31).

## Arming Report Codes

[160] \_\_\_ / \_\_\_ Access Code 01  
\_\_\_ / \_\_\_ Access Code 02  
\_\_\_ / \_\_\_ Access Code 03  
\_\_\_ / \_\_\_ Access Code 04

[161] \_\_\_ / \_\_\_ Access Code 05  
\_\_\_ / \_\_\_ Access Code 06  
\_\_\_ / \_\_\_ Access Code 07  
\_\_\_ / \_\_\_ Access Code 08

[162] \_\_\_ / \_\_\_ Access Code 09  
\_\_\_ / \_\_\_ Access Code 10  
\_\_\_ / \_\_\_ Access Code 11  
\_\_\_ / \_\_\_ Access Code 12

[163] \_\_\_ / \_\_\_ Access Code 13  
\_\_\_ / \_\_\_ Access Code 14  
\_\_\_ / \_\_\_ Access Code 15  
\_\_\_ / \_\_\_ Access Code 16

[164] \_\_\_ / \_\_\_ Access Code 17  
\_\_\_ / \_\_\_ Access Code 18  
\_\_\_ / \_\_\_ Access Code 19  
\_\_\_ / \_\_\_ Access Code 20

[165] \_\_\_ / \_\_\_ Access Code 21  
\_\_\_ / \_\_\_ Access Code 22  
\_\_\_ / \_\_\_ Access Code 23  
\_\_\_ / \_\_\_ Access Code 24

[166] \_\_\_ / \_\_\_ Access Code 25  
\_\_\_ / \_\_\_ Access Code 26  
\_\_\_ / \_\_\_ Access Code 27  
\_\_\_ / \_\_\_ Access Code 28

[167] \_\_\_ / \_\_\_ Access Code 29  
\_\_\_ / \_\_\_ Access Code 30  
\_\_\_ / \_\_\_ Access Code 31  
\_\_\_ / \_\_\_ Access Code 32

[168] \_\_\_ / \_\_\_ Access Code 33  
\_\_\_ / \_\_\_ Access Code 34  
\_\_\_ / \_\_\_ Access Code 35  
\_\_\_ / \_\_\_ Access Code 36

[169] \_\_\_ / \_\_\_ Access Code 37  
\_\_\_ / \_\_\_ Access Code 38  
\_\_\_ / \_\_\_ Access Code 39  
\_\_\_ / \_\_\_ Access Code 40

[170] \_\_\_ / \_\_\_ Access Code 41  
\_\_\_ / \_\_\_ Access Code 42  
\_\_\_ / \_\_\_ Access Code 43  
\_\_\_ / \_\_\_ Access Code 44

[171] \_\_\_ / \_\_\_ Access Code 45  
\_\_\_ / \_\_\_ Access Code 46  
\_\_\_ / \_\_\_ Access Code 47  
\_\_\_ / \_\_\_ Access Code 48

## Special Arming Codes

[172] \_\_\_ / \_\_\_ Auto-Arming  
\_\_\_ / \_\_\_ Late to Close  
\_\_\_ / \_\_\_ No Movement  
\_\_\_ / \_\_\_ Partial Arming  
  
[173] \_\_\_ / \_\_\_ Quick Arming  
\_\_\_ / \_\_\_ Arming via PC  
\_\_\_ / \_\_\_ Keyswitch Arming  
\_\_\_ / \_\_\_ Closing Delinquency

## Disarming Report Codes

[174] \_\_\_ / \_\_\_ Access Code 01  
\_\_\_ / \_\_\_ Access Code 02  
\_\_\_ / \_\_\_ Access Code 03  
\_\_\_ / \_\_\_ Access Code 04

[175] \_\_\_ / \_\_\_ Access Code 05  
\_\_\_ / \_\_\_ Access Code 06  
\_\_\_ / \_\_\_ Access Code 07  
\_\_\_ / \_\_\_ Access Code 08

[176] \_\_\_ / \_\_\_ Access Code 09  
\_\_\_ / \_\_\_ Access Code 10  
\_\_\_ / \_\_\_ Access Code 11  
\_\_\_ / \_\_\_ Access Code 12

[177] \_\_\_ / \_\_\_ Access Code 13  
\_\_\_ / \_\_\_ Access Code 14  
\_\_\_ / \_\_\_ Access Code 15  
\_\_\_ / \_\_\_ Access Code 16

[178] \_\_\_ / \_\_\_ Access Code 17  
\_\_\_ / \_\_\_ Access Code 18  
\_\_\_ / \_\_\_ Access Code 19  
\_\_\_ / \_\_\_ Access Code 20

[179] \_\_\_ / \_\_\_ Access Code 21  
\_\_\_ / \_\_\_ Access Code 22  
\_\_\_ / \_\_\_ Access Code 23  
\_\_\_ / \_\_\_ Access Code 24

[180] \_\_\_ / \_\_\_ Access Code 25  
\_\_\_ / \_\_\_ Access Code 26  
\_\_\_ / \_\_\_ Access Code 27  
\_\_\_ / \_\_\_ Access Code 28

[181] \_\_\_ / \_\_\_ Access Code 29  
\_\_\_ / \_\_\_ Access Code 30  
\_\_\_ / \_\_\_ Access Code 31  
\_\_\_ / \_\_\_ Access Code 32

[182] \_\_\_ / \_\_\_ Access Code 33  
\_\_\_ / \_\_\_ Access Code 34  
\_\_\_ / \_\_\_ Access Code 35  
\_\_\_ / \_\_\_ Access Code 36

[183] \_\_\_ / \_\_\_ Access Code 37  
\_\_\_ / \_\_\_ Access Code 38  
\_\_\_ / \_\_\_ Access Code 39  
\_\_\_ / \_\_\_ Access Code 40

[184] \_\_\_ / \_\_\_ Access Code 41  
\_\_\_ / \_\_\_ Access Code 42  
\_\_\_ / \_\_\_ Access Code 43  
\_\_\_ / \_\_\_ Access Code 44

[185] \_\_\_ / \_\_\_ Access Code 45  
\_\_\_ / \_\_\_ Access Code 46  
\_\_\_ / \_\_\_ Access Code 47  
\_\_\_ / \_\_\_ Access Code 48

## Special Disarming Codes

[186] \_\_\_ / \_\_\_ Cancel Auto-Arm  
\_\_\_ / \_\_\_ Disarming via PC  
\_\_\_ / \_\_\_ Keyswitch Disarm  
\_\_\_ / \_\_\_ N/A

## Alarm Report Codes

| Alarm                 | Restore               | Special                       |
|-----------------------|-----------------------|-------------------------------|
| [187] ___/___ Zone 01 | [191] ___/___ Zone 01 | [195] ___/___ Emergency Panic |
| ___/___ Zone 02       | ___/___ Zone 02       | ___/___ Auxiliary Panic       |
| ___/___ Zone 03       | ___/___ Zone 03       | ___/___ Fire Panic            |
| ___/___ Zone 04       | ___/___ Zone 04       | ___/___ Recent Closing        |
| [188] ___/___ Zone 05 | [192] ___/___ Zone 05 | [196] ___/___ Zone Shutdown   |
| ___/___ Zone 06       | ___/___ Zone 06       | ___/___ Duress                |
| ___/___ Zone 07       | ___/___ Zone 07       | ___/___ Keypad Lockout        |
| ___/___ Zone 08       | ___/___ Zone 08       | ___/___ N/A                   |
| [189] ___/___ Zone 09 | [193] ___/___ Zone 09 |                               |
| ___/___ Zone 10       | ___/___ Zone 10       |                               |
| ___/___ Zone 11       | ___/___ Zone 11       |                               |
| ___/___ Zone 12       | ___/___ Zone 12       |                               |
| [190] ___/___ Zone 13 | [194] ___/___ Zone 13 |                               |
| ___/___ Zone 14       | ___/___ Zone 14       |                               |
| ___/___ Zone 15       | ___/___ Zone 15       |                               |
| ___/___ N/A           | ___/___ N/A           |                               |

## Tamper Report Codes

| Trouble               | Restore               | Special               |
|-----------------------|-----------------------|-----------------------|
| [197] ___/___ Zone 01 | [200] ___/___ Zone 13 | [203] ___/___ Zone 09 |
| ___/___ Zone 02       | ___/___ Zone 14       | ___/___ Zone 10       |
| ___/___ Zone 03       | ___/___ Zone 15       | ___/___ Zone 11       |
| ___/___ Zone 04       | ___/___ N/A           | ___/___ Zone 12       |
| [198] ___/___ Zone 05 | [201] ___/___ Zone 01 | [204] ___/___ Zone 13 |
| ___/___ Zone 06       | ___/___ Zone 02       | ___/___ Zone 14       |
| ___/___ Zone 07       | ___/___ Zone 03       | ___/___ Zone 15       |
| ___/___ Zone 08       | ___/___ Zone 04       | ___/___ N/A           |
| [199] ___/___ Zone 09 | [202] ___/___ Zone 05 |                       |
| ___/___ Zone 10       | ___/___ Zone 06       |                       |
| ___/___ Zone 11       | ___/___ Zone 07       |                       |
| ___/___ Zone 12       | ___/___ Zone 08       |                       |

## System Trouble Report Codes

| System Trouble                     | Restore                            | Special                             |
|------------------------------------|------------------------------------|-------------------------------------|
| [205] ___/___ N/A                  | [208] ___/___ TLM                  | [211] ___/___ Cold Start (Shutdown) |
| ___/___ AC Failure                 | ___/___ AC Failure                 | ___/___ Test Report                 |
| ___/___ Battery Failure            | ___/___ Battery Failure            | ___/___ N/A                         |
| ___/___ Auxiliary Supply           | ___/___ Auxiliary Supply           | ___/___ PC Exit                     |
| [206] ___/___ Bell Output Overload | [209] ___/___ Bell Output Overload | [212] ___/___ Installer In          |
| ___/___ Bell Output Disconnect     | ___/___ Bell Output Disconnect     | ___/___ Installer Out               |
| ___/___ Timer Loss                 | ___/___ Timer Loss                 | ___/___ N/A                         |
| ___/___ Fire Loop Trouble          | ___/___ Fire Loop Trouble          | ___/___ N/A                         |
| [207] ___/___ Wireless Low Battery | [210] ___/___ Wireless Low Battery | [213] ___/___ TX Supervision Loss   |
| ___/___ Module Fault               | ___/___ Module Fault               | ___/___ TX Supervision Restore      |
| ___/___ Printer Fault              | ___/___ Printer Fault              | ___/___ N/A                         |
| ___/___ Fail to Communicate        | ___/___ Fail to Communicate        | ___/___ N/A                         |

## System Settings

| Section #                    | Description                                                           |
|------------------------------|-----------------------------------------------------------------------|
| [280]    __/__/__:__/_       | SYSTEM REAL TIME CLOCK (HH:MM)                                        |
| [281]    __/__/__/__/__/__/_ | INSTALLER CODE, <b>DEFAULT: 0000 / 000000</b>                         |
| [282]    __/__/__            | INSTALLER CODE LOCK, <b>DEFAULT: 000</b> (147 TO LOCK, 000 TO UNLOCK) |
| [301]    __/__/__/__/__/__/_ | SYSTEM MASTER CODE, <b>DEFAULT: 1234 / 123456</b>                     |

## User Code Options

**System Master Code** arms or disarm partitions using any arming method and can create, modify or delete any User Access Code. Only the System Master Code can modify or delete User Access Codes assigned to both partitions.

**Master Code 1** is permanently assigned to partition 1 and can be used to create, modify or delete User Access Codes that are assigned to partition 1.

**Master Code 2** is permanently assigned to partition 2 (except when partitioning is disabled, Master Code 2 will be assigned to partition 1) and can be used to create, modify or delete User Access Codes that are assigned to the same partition.

Default for all user codes is options [1], [3] and [4] ON.  
ON = Option Enabled  
OFF = Option Disabled

|                             |                              |
|-----------------------------|------------------------------|
| [1] ON = Partition 1 Access | [5] ON = Force Arming        |
| [2] ON = Partition 2 Access | [6] ON = Arm Only            |
| [3] ON = Bypass Programming | [7] ON = PGM Activation Only |
| [4] ON = Stay Arming        | [8] ON = Future Use          |

| Section #           | User Code Options (ON/OFF) | Section             | User Code Options (ON/OFF) |
|---------------------|----------------------------|---------------------|----------------------------|
| [302] Master Code 1 | 1 2 3 4 5 6 7 8            | [325] User Code 025 | 1 2 3 4 5 6 7 8            |
| [303] Master Code 2 | 1 2 3 4 5 6 7 8            | [326] User Code 026 | 1 2 3 4 5 6 7 8            |
| [304] User Code 004 | 1 2 3 4 5 6 7 8            | [327] User Code 027 | 1 2 3 4 5 6 7 8            |
| [305] User Code 005 | 1 2 3 4 5 6 7 8            | [328] User Code 028 | 1 2 3 4 5 6 7 8            |
| [306] User Code 006 | 1 2 3 4 5 6 7 8            | [329] User Code 029 | 1 2 3 4 5 6 7 8            |
| [307] User Code 007 | 1 2 3 4 5 6 7 8            | [330] User Code 030 | 1 2 3 4 5 6 7 8            |
| [308] User Code 008 | 1 2 3 4 5 6 7 8            | [331] User Code 031 | 1 2 3 4 5 6 7 8            |
| [309] User Code 009 | 1 2 3 4 5 6 7 8            | [332] User Code 032 | 1 2 3 4 5 6 7 8            |
| [310] User Code 010 | 1 2 3 4 5 6 7 8            | [333] User Code 033 | 1 2 3 4 5 6 7 8            |
| [311] User Code 011 | 1 2 3 4 5 6 7 8            | [334] User Code 034 | 1 2 3 4 5 6 7 8            |
| [312] User Code 012 | 1 2 3 4 5 6 7 8            | [335] User Code 035 | 1 2 3 4 5 6 7 8            |
| [313] User Code 013 | 1 2 3 4 5 6 7 8            | [336] User Code 036 | 1 2 3 4 5 6 7 8            |
| [314] User Code 014 | 1 2 3 4 5 6 7 8            | [337] User Code 037 | 1 2 3 4 5 6 7 8            |
| [315] User Code 015 | 1 2 3 4 5 6 7 8            | [338] User Code 038 | 1 2 3 4 5 6 7 8            |
| [316] User Code 016 | 1 2 3 4 5 6 7 8            | [339] User Code 039 | 1 2 3 4 5 6 7 8            |
| [317] User Code 017 | 1 2 3 4 5 6 7 8            | [340] User Code 040 | 1 2 3 4 5 6 7 8            |
| [318] User Code 018 | 1 2 3 4 5 6 7 8            | [341] User Code 041 | 1 2 3 4 5 6 7 8            |
| [319] User Code 019 | 1 2 3 4 5 6 7 8            | [342] User Code 042 | 1 2 3 4 5 6 7 8            |
| [320] User Code 020 | 1 2 3 4 5 6 7 8            | [343] User Code 043 | 1 2 3 4 5 6 7 8            |
| [321] User Code 021 | 1 2 3 4 5 6 7 8            | [344] User Code 044 | 1 2 3 4 5 6 7 8            |
| [322] User Code 022 | 1 2 3 4 5 6 7 8            | [345] User Code 045 | 1 2 3 4 5 6 7 8            |
| [323] User Code 023 | 1 2 3 4 5 6 7 8            | [346] User Code 046 | 1 2 3 4 5 6 7 8            |
| [324] User Code 024 | 1 2 3 4 5 6 7 8            | [347] User Code 047 | 1 2 3 4 5 6 7 8            |
|                     |                            | [348] User Code 048 | 1 2 3 4 5 6 7 8            |

## Reprogram All Modules

- [750] After removing an expansion module from the communication bus, the control panel keeps the module's programmed sections in memory. Therefore, if you add or replace a module you can re-program the module with the settings saved in the control panel. To do so, enter section [750] and press [ENTER]. The keypads will beep twice every second until the procedure is completed.

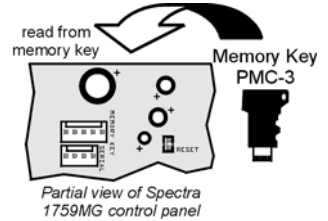
## Paradox Memory Key (PMC-3)

[900] DOWNLOAD FROM PARADOX MEMORY KEY TO DESTINATION CONTROL PANEL.

[902] COPY TO MEMORY KEY FROM SOURCE CONTROL PANEL.

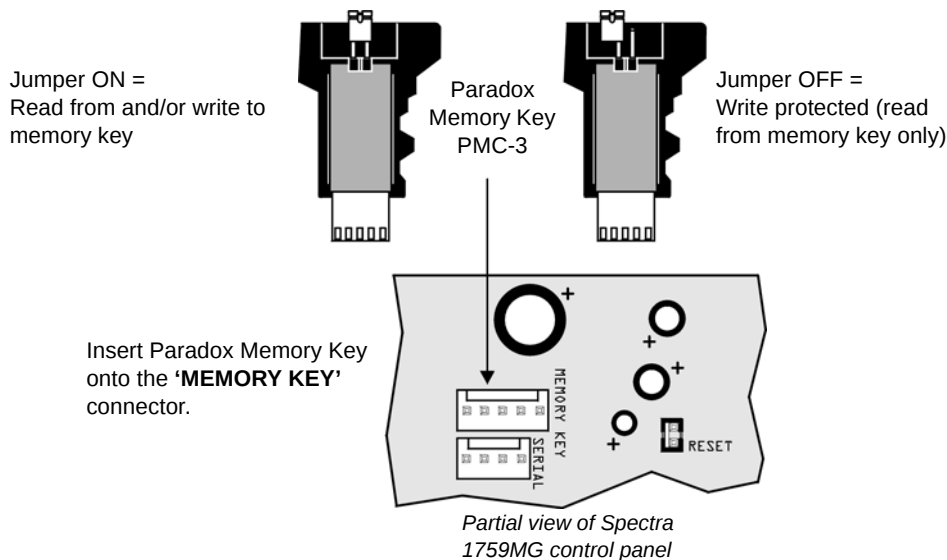
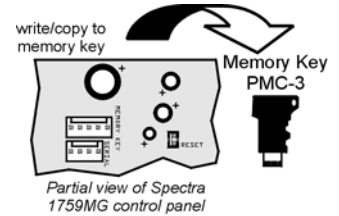
### Download to DESTINATION Control Panel

- 1) Remove AC and battery power from the control panel.
- 2) Insert the Memory Key onto the serial connector labelled KEY on the Spectra control panel to which you wish to download the contents of the memory key to.
- 3) Re-apply AC and battery power.
- 4) Enter installer programming mode, enter section [900], then press [ENTER] to acknowledge.
- 5) When the keypad emits a "confirmation beep", remove the Memory Key.
- 6) Enter section [750] to reprogram the modules with the information downloaded from the Paradox Memory Key.



### Copy to Memory Key from SOURCE Control Panel

- 1) Remove AC and battery power from the control panel.
- 2) Insert Memory Key onto the serial connector labelled KEY on the Spectra control panel that you want to copy. Make sure the write protect jumper of the Memory Key is on.
- 3) Re-apply AC and battery power.
- 4) Enter installer programming mode, enter section [902], then press [ENTER] to acknowledge.
- 5) When the keypad emits a Confirmation Beep, remove the Memory Key. Remove the Memory Key's jumper if you do not wish to accidentally overwrite its contents.



## 4-PGM Output Modules V2.0

Due to the APR3-PGM4's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), DGP-848 or DGP-NE96 control panel. When connected to the bus, the APR3-PGM4 automatically detects which control panel it is connected to and adjusts its internal communication parameters to function accordingly. Only one APR3-PGM4 can be connected to each Spectra control panel.

 Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and DGP-848. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), DGP-848 and DGP-NE96.

**Bold** = Default Setting

### Section [500]: General Options

| Option                       | OFF                                     | ON                               |
|------------------------------|-----------------------------------------|----------------------------------|
| [1] PGM1 Time Base Selection | <input type="checkbox"/> <b>Seconds</b> | <input type="checkbox"/> Minutes |
| [2] PGM2 Time Base Selection | <input type="checkbox"/> <b>Seconds</b> | <input type="checkbox"/> Minutes |
| [3] PGM3 Time Base Selection | <input type="checkbox"/> <b>Seconds</b> | <input type="checkbox"/> Minutes |
| [4] PGM4 Time Base Selection | <input type="checkbox"/> <b>Seconds</b> | <input type="checkbox"/> Minutes |
| [5] to [8] Future use        | <input type="checkbox"/> N/A            | <input type="checkbox"/> N/A     |

### PGM Programming

Each PGM Deactivation event can be used as another activation event if their respective PGM timer (see sections [501] to [504]) is programmed with a value other than 000. The APR3-PGM4 uses the same PGM events as the Spectra control panel, please refer to *Programmable Outputs* on page 9.

| Section #         | Decimal Value (000-255)           | Description | Default Value |
|-------------------|-----------------------------------|-------------|---------------|
| [501] ___/___/___ | (000 = follow deactivation event) | PGM1 TIMER  | 5 sec.        |
| [502] ___/___/___ | (000 = follow deactivation event) | PGM2 TIMER  | 5 sec.        |
| [503] ___/___/___ | (000 = follow deactivation event) | PGM3 TIMER  | 5 sec.        |
| [504] ___/___/___ | (000 = follow deactivation event) | PGM4 TIMER  | 5 sec.        |

| Section #                     | Event Group # | Sub-Group # | Partition # |
|-------------------------------|---------------|-------------|-------------|
| [505] PGM1 Activation Event   | ___/___       | ___/___     | ___/___     |
| [506] PGM1 Deactivation Event | ___/___       | ___/___     | ___/___     |
| [507] PGM2 Activation Event   | ___/___       | ___/___     | ___/___     |
| [508] PGM2 Deactivation Event | ___/___       | ___/___     | ___/___     |
| [509] PGM3 Activation Event   | ___/___       | ___/___     | ___/___     |
| [510] PGM3 Deactivation Event | ___/___       | ___/___     | ___/___     |
| [511] PGM4 Activation Event   | ___/___       | ___/___     | ___/___     |
| [512] PGM4 Deactivation Event | ___/___       | ___/___     | ___/___     |

# Printer Module V2.0

Due to the APR3-PRT1's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), DGP-848 or DGP-NE96 control panel. When connected to the bus, the APR3-PRT1 automatically detects which control panel it is connected to and adjusts its internal communication parameters to function accordingly. Only one APR3-PRT1 can be connected to each Spectra control panel.



Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and DGP-848. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), DGP-848 and DGP-NE96.

**Bold = Default Setting**

## Section [550]: General Options

| Option                                              | OFF                                           | ON                                              |
|-----------------------------------------------------|-----------------------------------------------|-------------------------------------------------|
| [1] <i>Assigned to Partition 1</i>                  | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Enabled                |
| [2] <i>Assigned to Partition 2</i>                  | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Enabled                |
| [3] <i>PGM normal state</i>                         | <input type="checkbox"/> Normally Open (N.O.) | <input type="checkbox"/> Normally Closed (N.C.) |
| [4] <i>Print Arming and disarming events</i>        | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Automatically          |
| [5] <i>Print Alarm and Alarm Restore events</i>     | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Automatically          |
| [6] <i>Print Tamper and Tamper Restore events</i>   | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Automatically          |
| [7] <i>Print Trouble and Trouble Restore events</i> | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Automatically          |
| [8] <i>Print Special events</i>                     | <input type="checkbox"/> Disabled             | <input type="checkbox"/> Automatically          |

## Section [551]: Automatic Zone Status Printing

| Option                            | OFF                               | ON                                     |
|-----------------------------------|-----------------------------------|----------------------------------------|
| [1] <i>Print status of Zone 1</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [2] <i>Print status of Zone 2</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [3] <i>Print status of Zone 3</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [4] <i>Print status of Zone 4</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [5] <i>Print status of Zone 5</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [6] <i>Print status of Zone 6</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [7] <i>Print status of Zone 7</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [8] <i>Print status of Zone 8</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |

## Section [552]: Automatic Zone Status Printing

| Option                             | OFF                               | ON                                     |
|------------------------------------|-----------------------------------|----------------------------------------|
| [1] <i>Print status of Zone 9</i>  | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [2] <i>Print status of Zone 10</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [3] <i>Print status of Zone 11</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [4] <i>Print status of Zone 12</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [5] <i>Print status of Zone 13</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [6] <i>Print status of Zone 14</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [7] <i>Print status of Zone 15</i> | <input type="checkbox"/> Disabled | <input type="checkbox"/> Automatically |
| [8] <i>N/A</i>                     | <input type="checkbox"/> N/A      | <input type="checkbox"/> N/A           |

**Bold = Default Setting**

## Section [553]: Serial and Parallel Port Setup Options

### Option

OFF

ON

[1] *Serial port*

☐ **Disabled**

☐ Enabled

[2]&[3]

☐ see table

☐ see table

☐ see table

☐ see table

| Baud Rate Settings |     |                            |                            |
|--------------------|-----|----------------------------|----------------------------|
| [2]                | [3] | APR-PRT1                   | APR3-PRT1                  |
| OFF                | OFF | <b>1200 baud</b> (default) | <b>2400 baud</b> (default) |
| ON                 | OFF | 2400 baud                  | 9600 baud                  |
| OFF                | ON  | 9600 baud                  | 19200 baud                 |
| ON                 | ON  | 19200 baud                 | 57600 baud                 |

[4] *Parallel port*

☐ **Disabled**

☐ Enabled

[5] *Off-line status ignored (parallel port only)*

☐ **Disabled**

☐ Enabled

[6] *Paper empty status ignored (parallel port only)*

☐ **Disabled**

☐ Enabled

[7] *Printer fault status ignored (parallel port only)*

☐ **Disabled**

☐ Enabled

[8] *Printer busy status ignored (parallel port only)*

☐ **Disabled**

☐ Enabled

## PGM Programming

The PGM Deactivation event can be used as another activation event if the PGM Timer (section [554]) is programmed with a value other than 000. The APR3-PRT1 module uses the same PGM events as the Spectra control panel, please refer to *Programmable Outputs* on page 9.

| Section #            | Decimal Value (000-255)                   | Description | Default Value |
|----------------------|-------------------------------------------|-------------|---------------|
| [554] ____/____/____ | seconds (000 = follow deactivation event) | PGM1 TIMER  | 5s            |

| Section #                     | Event Group # | Sub-Group # | Partition # |
|-------------------------------|---------------|-------------|-------------|
| [555] PGM1 Activation Event   | ____/____     | ____/____   | ____/____   |
| [556] PGM1 Deactivation Event | ____/____     | ____/____   | ____/____   |

## Clock Programming

For example, to enter the date March 26, 2004 you would enter 2004 (year), 03 (month), and 26 (day).

| Section # | Value                                             |
|-----------|---------------------------------------------------|
| [557]     | Year ____/____/____ Month ____/____ Day ____/____ |



## Voice-assisted Arm/Disarm Bus Module V2.0

Due to InTouch's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), DGP-848 or DGP-NE96 control panels. When connected to the bus, InTouch automatically detects which control panel it is connected to and adjusts its internal communication parameters to function accordingly. Only one InTouch can be connected to each Spectra control panel.

APR3-ADM2 can also be programmed using the WinLoad Software. Refer to the *WinLoad Online Help* for more information.



Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and DGP-848. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), DGP-848 and DGP-NE96.

| Section #                | Decimal Value (000-255)           | Description                | Default Value  |
|--------------------------|-----------------------------------|----------------------------|----------------|
| <b>[575]</b> ___/___/___ | rings (000 = disabled)            | NUMBER OF RINGS            | <b>8 rings</b> |
| <b>[576]</b> ___/___/___ | seconds (010-255, 000 = disabled) | ANSWERING MACHINE OVERRIDE | <b>000</b>     |
| <b>[577]</b> ___/___/___ | seconds/minutes (000 = disabled)  | PGM TIMER                  | <b>005</b>     |

**Bold** = Default Setting

### Section [578]: General Options

| Option                                    | OFF                                      | ON                                |
|-------------------------------------------|------------------------------------------|-----------------------------------|
| <b>[1]</b> <i>Stand-alone Code length</i> | <input type="checkbox"/> <b>6-digits</b> | <input type="checkbox"/> 4-digits |
| <b>[2]</b> <i>Partitioned system</i>      | <input type="checkbox"/> <b>Disabled</b> | <input type="checkbox"/> Enabled  |
| <b>[3]</b> <i>PGM output</i>              | <input type="checkbox"/> <b>Disabled</b> | <input type="checkbox"/> Enabled  |
| <b>[4]</b> <i>PGM time in</i>             | <input type="checkbox"/> <b>Seconds</b>  | <input type="checkbox"/> Minutes  |
| <b>[5] to [8]</b> <i>Future use</i>       | <input type="checkbox"/> N/A             | <input type="checkbox"/> N/A      |



**To reset the standalone code of the APR3-ADM2, you have to perform a hardware reset of the Spectra control panel.**

# Wireless Features

 Do not cut, bend or alter 1759MG's antennae and ensure that electrical wires do not cross over the antennae, as this may affect signal reception.

## Zone Assignment

The serial number can be located on the inside of the transmitter or you can use the Serial Number Display feature (see page 24). Also, refer to *Zone Recognition Table* on page 6.

Section #      Serial #  
**[601]** \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_ = EXPANSION INPUT 1  
**[602]** \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_ = EXPANSION INPUT 2  
**[603]** \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_ = EXPANSION INPUT 3  
**[604]** \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_ = EXPANSION INPUT 4  
**[605]** \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_ = EXPANSION INPUT 5  
**[606]** \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_ = EXPANSION INPUT 6  
**[607]** \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_ = EXPANSION INPUT 7  
**[608]** \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_ = EXPANSION INPUT 8

**Bold** = Default Setting

## Section [610]: General Options

| Option                                                      | OFF                                      | ON                               |
|-------------------------------------------------------------|------------------------------------------|----------------------------------|
| <b>[1]</b> <i>Wireless transmitter check-in supervision</i> | <input type="checkbox"/> <b>Disabled</b> | <input type="checkbox"/> Enabled |
| <b>[2]</b> <i>Check-in supervision interval</i>             | <input type="checkbox"/> <b>24h</b>      | <input type="checkbox"/> 80min   |
| <b>[3] to [7]</b> <i>Future use</i>                         | <input type="checkbox"/> N/A             | <input type="checkbox"/> N/A     |
| <b>[8]</b> <i>Tamper Supervision</i>                        | <input type="checkbox"/> <b>Disabled</b> | <input type="checkbox"/> Enabled |

## Serial Number Display

Section #      Description  
**[630]**      Press the anti-tamper switch of the Magellan Wireless Transmitter. The keypad will emit a confirmation beep. On LED keypads, press the **[ENTER]** key to view the digits one at a time. On LCD keypads, the first 3 digits of the serial number will appear. Press the **[ENTER]** key 3 times to view the next 3 digits. Continue activating the desired transmitters or press **[CLEAR]** to exit.

## Signal Strength Display

Section #      Description  
 After entering the desired section, activate the Magellan Wireless Transmitter by opening/closing the zone or by pressing the anti-tamper switch. Always ignore the first reading as it won't be accurate. An average reading of 3 or higher is acceptable.

**[631]**      Display Signal Strength of Expansion Input 1 - Section **[601]**  
**[632]**      Display Signal Strength of Expansion Input 2 - Section **[602]**  
**[633]**      Display Signal Strength of Expansion Input 3 - Section **[603]**  
**[634]**      Display Signal Strength of Expansion Input 4 - Section **[604]**  
**[635]**      Display Signal Strength of Expansion Input 5 - Section **[605]**  
**[636]**      Display Signal Strength of Expansion Input 6 - Section **[606]**  
**[637]**      Display Signal Strength of Expansion Input 7 - Section **[607]**  
**[638]**      Display Signal Strength of Expansion Input 8 - Section **[608]**

## Remote Control User Assignment

| Section # | Decimal Value                  | Description                        | Default Value |
|-----------|--------------------------------|------------------------------------|---------------|
| [701]     | ___/___/___ (001-048 = user #) | remote control #1 - section [731]* | 000           |
| [702]     | ___/___/___ (001-048 = user #) | remote control #2 - section [732]* | 000           |
| [703]     | ___/___/___ (001-048 = user #) | remote control #3 - section [733]* | 000           |
| [704]     | ___/___/___ (001-048 = user #) | remote control #4 - section [734]* | 000           |
| [705]     | ___/___/___ (001-048 = user #) | remote control #5 - section [735]* | 000           |
| [706]     | ___/___/___ (001-048 = user #) | remote control #6 - section [736]* | 000           |
| [707]     | ___/___/___ (001-048 = user #) | remote control #7 - section [737]* | 000           |
| [708]     | ___/___/___ (001-048 = user #) | remote control #8 - section [738]* | 000           |

\* refer to *Remote Control Assignment* on page 26.

## Button Options



**MG-REM1**

**Button Options Table**

**Empty Slot [FORCE] - Button disabled**

- 1 - Regular arming
- 2 - Stay arming
- 3 - Instant arming
- 4 - Force arming
- 5 - Disarm
- 6 - Disarm when no alarm
- 7 - Regular arm and disarm
- 8 - Panic 1
- 9 - Panic 2
- A - Panic 3
- B - PGM Activation (Event Group #7, see PGM Programming)
- C - PGM Activation (Event Group #8, see PGM Programming)
- D - PGM Activation (Event Group #9, see PGM Programming)

 Please note that the User Code assigned to the remote control (sections [701] to [708]) must have the same User Options and Button Options enabled. For example, if you enable the Force Arming button option you must enable the appropriate Force Arming user option. Also, if you enable any of the Panic button options, you must enable the Panic options in the control panel.

### Remote Control Button Programming

| RC# | Section | RC Buttons<br>Default: ( 1 5 0 0 0 0 0 0 ) |             |             |             |             |             |             |             |
|-----|---------|--------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1   | [711]   | ___/___/___                                | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ |
| 2   | [712]   | ___/___/___                                | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ |
| 3   | [713]   | ___/___/___                                | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ |
| 4   | [714]   | ___/___/___                                | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ |
| 5   | [715]   | ___/___/___                                | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ |
| 6   | [716]   | ___/___/___                                | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ |
| 7   | [717]   | ___/___/___                                | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ |
| 8   | [718]   | ___/___/___                                | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ | ___/___/___ |

 = These button combinations are not available with the MG-REM1 or MG-RAC1 remote controls and cannot be programmed.

## Remote Control Assignment

Enter the appropriate section and press any button on the remote control twice to assign the remote control. If you hear a rejection beep, an error has occurred or the remote control has already been assigned. To delete a remote control, enter the desired section and then press the **[FORCE]** button.

| Section #    |                   |
|--------------|-------------------|
| <b>[731]</b> | REMOTE CONTROL #1 |
| <b>[732]</b> | REMOTE CONTROL #2 |
| <b>[733]</b> | REMOTE CONTROL #3 |
| <b>[734]</b> | REMOTE CONTROL #4 |
| <b>[735]</b> | REMOTE CONTROL #5 |
| <b>[736]</b> | REMOTE CONTROL #6 |
| <b>[737]</b> | REMOTE CONTROL #7 |
| <b>[738]</b> | REMOTE CONTROL #8 |

 Modules with the APR- prefix are compatible with Spectra (versions 2.0 and higher) and DGP-848. Modules with the APR3- prefix are compatible with Spectra (versions 2.0 and higher), DGP-848 and DGP-NE96.

## Section [650]: Options

Section [651]: Zone AssignmentSpectra 1759MG - 27 - Programming Guide

# User Operation

## Partitioning

The Spectra system is equipped with a partitioning feature which can divide the alarm system into two distinct areas identified as Partition 1 and Partition 2. Partitioning can be used in installations where shared security systems are more practical, such as an office/warehouse building. **If the system is not partitioned, all User Codes and features will be recognized as belonging to Partition 1.**

### How does a partitioned system work?

- Users can only arm or disarm their assigned partitions.
- Only zones assigned to Partition 1 will arm or disarm when Partition 1 is armed or disarmed.
- Only zones assigned to Partition 2 will arm or disarm when Partition 2 is armed or disarmed.
- Zones assigned to both partitions will arm when both partitions are armed and will disarm when at least one disarms.
- Some of the system's features can be programmed separately for each partition.

## Programming Access Codes

User Access Codes are personal identification numbers that allow users to enter certain programming modes, arm or disarm the alarm system as well as activate or deactivate PGMs. Spectra security systems support the following:

**System Master Code** can arm or disarm any partition using any arming method and can create, modify or delete any User Access Code. Only the System Master Code can modify or delete User Access Codes assigned to both partitions.

**Master Code 1** is permanently assigned to partition 1 and can be used to create, modify or delete User Access Codes that are assigned to partition 1.

**Master Code 2** is permanently assigned to partition 2 (except when partitioning is disabled, Master Code 2 will be assigned to partition 1) and can be used to create, modify or delete User Access Codes that are assigned to the same partition.

**45 User Access Codes** (including 1 Duress code)

### How Do I Program Access Codes?

- 1) Press [ENTER]
- 2) Key in the [SYSTEM MASTER CODE] or [MASTER CODE]
- 3) Key in 3-digit [SECTION] (see User Code Table)
- 4) Key in new 4- or 6-digit [ACCESS CODE]  
[ENTER] flashes. Return to step 3

### How Do I Delete Access Codes?

- 1) Repeat steps 1 to 3 (see above)
- 2) Press the [FORCE] key once for each digit in the access code (4 or 6 times) until the keypad emits a Confirmation Beep.

User Code Table

| Section        | User Codes                         |
|----------------|------------------------------------|
| [001]          | User Code 001 = System Master Code |
| [002]          | User Code 002 = Master Code 1      |
| [003]          | User Code 003 = Master Code 2      |
| [004] to [047] | User Code 004 to User Code 047     |
| [048]          | User Code 048 or Duress Code       |

## Programming Chime Zones

This feature allows users to program which zones will be Chime Enabled. A Chime Enabled zone will cause the keypad to emit a rapid intermittent beep tone (BEEP-BEEP-BEEP-BEEP) advising the user every time it is opened. Each keypad must be Chime Programmed separately. Keypad chimes must be re-programmed if the system suffers a total power loss (16-zone LED and LCD Keypads only).

### 10-Zone LED Keypad

Press and hold any key from **[1]** to **[10]** for 3 seconds to activate or deactivate Chiming for zones 1 to 10. For example, press and hold the **[1]** key to enable chiming on zone 1. If, after pressing and holding a key, the keypad emits a confirmation beep, this means the chime feature has been enabled for that zone. If the keypad emits a Rejection Beep, this means the Chime feature has been disabled for the corresponding zone.

### 16-Zone LED Keypad

Press and hold the **[9]** key. Enter the 2-digit (**01 to 16**) zone number(s). When the corresponding LED is on, the zone is chimed. When the corresponding LED is off, the zone is unchimed. When the desired zones are chimed, press **[ENTER]**.

### LCD Keypad

Press and hold the **[9]** key. Enter the 2-digit (**01 to 16**) zone number(s) or use the arrow keys to scroll through the zones. When the appropriate zone is displayed, press the **[FNC1]** key. When the desired zones are chimed, press **[ENTER]**.

## Keypad Muting

Press and hold the **[CLEAR]** key for 3 seconds to enable or disable keypad muting. When muted, the keypad will only beep when a key is pressed or when the keypad emits a Rejection or Confirmation Beep. All other beep functions are disabled.

## Keypad Backlight (1686H and 1686V Only)

The illumination level behind the keys can be modified to suit the user's needs. There are four backlight levels. The **[MEM]** key is used to set the desired level. Each consecutive push of the **[MEM]** key will increase the backlight level until the maximum level is reached. After reaching the maximum level, the backlight level will return to the lowest level and the whole process is repeated. To change the backlight level:

### How do I Modify the Backlight?

- 1) Press and hold the **[MEM]** key for 3 seconds
- 2) The **[MEM]** key will illuminate
- 3) Press the **[MEM]** key to set the desired backlight level
- 4) Press **[CLEAR]** or **[ENTER]** to exit

## Installer Function Keys

### Installer Test Mode

**[ENTER] + [INSTALLER CODE] + [TBL] or [TRBL]**

The Installer Test Mode allows you to perform walk tests where the bell/siren will squawk once to indicate an open zone and twice to indicate a closed zone. To enter this mode, press **[ENTER] + [INSTALLER CODE] + [TBL] or [TRBL]**. The keypad will emit a Confirmation Beep. To disable this mode, press the **[TBL] or [TRBL]** key again. The keypad will emit a Rejection Beep.

### Test Report

**[ENTER] + [INSTALLER/MASTER CODE] + [MEM]**

Sends the Test Report report code programmed in section [211] to the central station.

### Call WinLoad Software

**[ENTER] + [INSTALLER/MASTER CODE] + [BYP]**

This feature is used to establish communication between the control panel and a computer using the WinLoad Software. After entering this mode, the control panel will dial the telephone number programmed in section **[150]**.

### Cancel Communication

**[ENTER] + [INSTALLER/MASTER CODE] + [STAY]**

Cancels all communication until the next reportable event. If the Master Code was used, only communication with WinLoad would be cancelled.

### Answer WinLoad Software

**[ENTER] + [INSTALLER/MASTER CODE] + [FORCE]**

Forces the control panel to pick-up an incoming telephone call.

# Appendix A - Ademco CID Report Code List (Prog.)

If using the Ademco Contact ID Programmable code format, enter the 2-digit hexadecimal value from the table below (Prog. Value) into sections [160] to [213] to program the desired report codes. **To enter a 0 value press the [FORCE] key.**

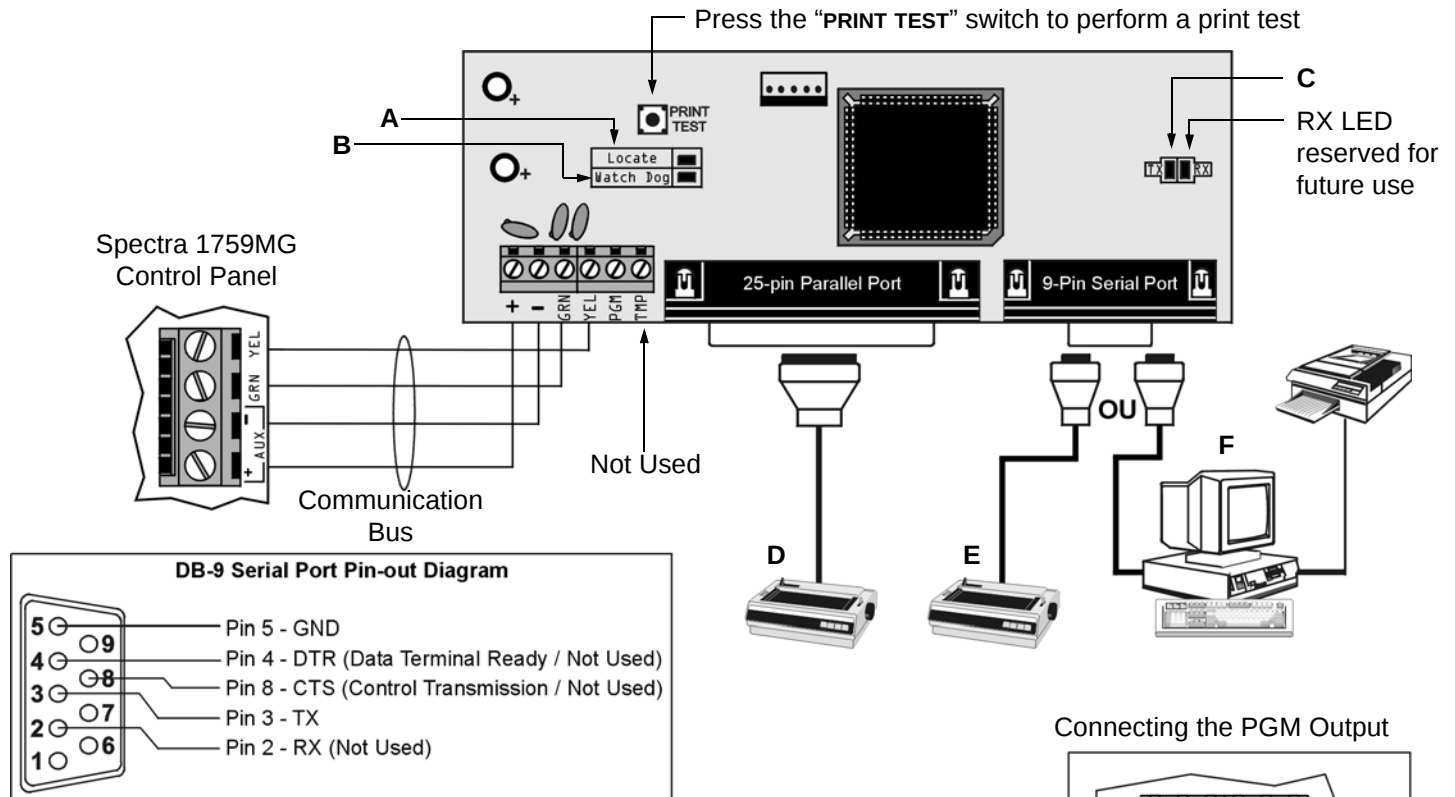
| CID#                                        | Reporting Code           | Prog. Value | CID#                                              | Reporting Code            | Prog. Value | CID#                                          | Reporting Code            | Prog. Value |
|---------------------------------------------|--------------------------|-------------|---------------------------------------------------|---------------------------|-------------|-----------------------------------------------|---------------------------|-------------|
| <b>MEDICAL ALARMS - 100</b>                 |                          |             | 203                                               | Gate Valve Sensor         | 2E          | 401                                           | O/C by User               | 5B          |
| 100                                         | Medical Alarm            | 01          | 204                                               | Low Water Level           | 2F          | 402                                           | Group O/C                 | 5C          |
| 101                                         | Pendant Transmitter      | 02          | 205                                               | Pump Activated            | 30          | 403                                           | Automatic O/C             | 5D          |
| 102                                         | Fail to Report In        | 03          | 206                                               | Pump Failure              | 31          | 404                                           | Late to O/C               | 5E          |
| <b>FIRE ALARMS - 110</b>                    |                          |             | <b>SYSTEM TROUBLES - 300 &amp; 310</b>            |                           |             | 405                                           | Deferred                  | 5F          |
| 110                                         | Fire Alarm               | 04          | 300                                               | System Trouble            | 32          | 406                                           | Cancel                    | 60          |
| 111                                         | Smoke                    | 05          | 301                                               | AC Loss                   | 33          | 407                                           | Remote Arm/Disarm         | 61          |
| 112                                         | Combustion               | 06          | 302                                               | Low System Battery        | 34          | 408                                           | Quick Arm                 | 62          |
| 113                                         | Water Flow               | 07          | 303                                               | RAM Checksum Bad          | 35          | 409                                           | Keyswitch O/C             | 63          |
| 114                                         | Heat                     | 08          | 304                                               | ROM Checksum Bad          | 36          | <b>REMOTE ACCESS - 410</b>                    |                           |             |
| 115                                         | Pull Station             | 09          | 305                                               | System Reset              | 37          | 411                                           | Callback Request Made     | 64          |
| 116                                         | Duct                     | 0A          | 306                                               | Panel Program Changed     | 38          | 412                                           | Success - Download Access | 65          |
| 117                                         | Flame                    | 0B          | 307                                               | Self-Test Failure         | 39          | 413                                           | Unsuccessful Access       | 66          |
| 118                                         | Near Alarm               | 0C          | 308                                               | System Shutdown           | 3A          | 414                                           | System Shutdown           | 67          |
| <b>PANIC ALARMS - 120</b>                   |                          |             | 309                                               | Battery Test Failure      | 3B          | 415                                           | Dialer Shutdown           | 68          |
| 120                                         | Panic Alarm              | 0D          | 310                                               | Ground Fault              | 3C          | <b>ACCESS CONTROL - 420</b>                   |                           |             |
| 121                                         | Duress                   | 0E          | <b>SOUNDER/RELAY TROUBLES - 320</b>               |                           |             | 421                                           | Access Denied             | 69          |
| 122                                         | Silent                   | 0F          | 320                                               | Sounder Relay             | 3D          | 422                                           | Access Report By User     | 6A          |
| 123                                         | Audible                  | 10          | 321                                               | Bell 1                    | 3E          | <b>SOUNDER RELAY DISABLES - 520</b>           |                           |             |
| <b>BURGLAR ALARMS - 130</b>                 |                          |             | 322                                               | Bell 2                    | 3F          | 520                                           | Sounder/Relay Disabled    | 6B          |
| 130                                         | Burglary                 | 11          | 323                                               | Alarm Relay               | 40          | 521                                           | Bell 1 Disable            | 6C          |
| 131                                         | Perimeter                | 12          | 324                                               | Trouble Relay             | 41          | 522                                           | Bell 2 Disable            | 6D          |
| 132                                         | Interior                 | 13          | 325                                               | Reversing                 | 42          | 523                                           | Alarm Relay Disable       | 6E          |
| 133                                         | 24-Hour                  | 14          | <b>SYSTEM PERIPHERAL TROUBLES - 330 &amp; 340</b> |                           |             | 524                                           | Trouble Relay Disable     | 6F          |
| 134                                         | Entry/Exit               | 15          | 330                                               | System Peripheral         | 43          | 525                                           | Reversing Relay Disable   | 70          |
| 135                                         | Day/Night                | 16          | 331                                               | Polling Loop Open         | 44          | <b>COMMUNICATION DISABLES - 550 &amp; 560</b> |                           |             |
| 136                                         | Outdoor                  | 17          | 332                                               | Polling Loop Short        | 45          | 551                                           | Dialer Disabled           | 71          |
| 137                                         | Tamper                   | 18          | 333                                               | Exp. Module Failure       | 46          | 552                                           | Radio xmitter Disabled    | 72          |
| 138                                         | Near Alarm               | 19          | 334                                               | Repeater Failure          | 47          | <b>BYPASSES - 570</b>                         |                           |             |
| <b>GENERAL ALARMS - 140</b>                 |                          |             | 335                                               | Local Printer Paper Out   | 48          | 570                                           | Zone Bypass               | 73          |
| 140                                         | General Alarm            | 1A          | 336                                               | Local Printer Failure     | 49          | 571                                           | Fire Bypass               | 74          |
| 141                                         | Polling Loop Open        | 1B          | <b>COMMUNICATION TROUBLES - 350 &amp; 360</b>     |                           |             | 572                                           | 24-Hour Zone Bypass       | 75          |
| 142                                         | Polling Loop Short       | 1C          | 350                                               | Communication             | 4A          | 573                                           | Burg. Bypass              | 76          |
| 143                                         | Expansion Module Failure | 1D          | 351                                               | Telco Fault 1             | 4B          | 574                                           | Group Bypass              | 77          |
| 144                                         | Sensor Tamper            | 1E          | 352                                               | Telco Fault 2             | 4C          | <b>TEST/MISC. - 600</b>                       |                           |             |
| 145                                         | Expansion Module Tamper  | 1F          | 353                                               | Long Range Radio          | 4D          | 601                                           | Manual Trigger Test       | 78          |
| <b>24-HOUR NON-BURGLARY - 150 &amp; 160</b> |                          |             | 354                                               | Fail to Communicate       | 4E          | 602                                           | Periodic Test Report      | 79          |
| 150                                         | 24-Hour Non-Burglary     | 20          | 355                                               | Loss of Radio Supervision | 4F          | 603                                           | Periodic RF Xmission      | 7A          |
| 151                                         | Gas Detected             | 21          | 356                                               | Loss of Central Polling   | 50          | 604                                           | Fire Test                 | 7B          |
| 152                                         | Refrigeration            | 22          | <b>PROTECTION LOOP TROUBLES - 370</b>             |                           |             | 605                                           | Status Report to Follow   | 7C          |
| 153                                         | Loss of Heat             | 23          | 370                                               | Protection Loop           | 51          | 606                                           | Listen-in to Follow       | 7D          |
| 154                                         | Water Leakage            | 24          | 371                                               | Protection Loop Open      | 52          | 607                                           | Walk Test Mode            | 7E          |
| 155                                         | Foil Break               | 25          | 372                                               | Protection Loop short     | 53          | 621                                           | Event Log Reset           | 7F          |
| 156                                         | Day Trouble              | 26          | 373                                               | Fire Trouble              | 54          | 622                                           | Event Log 50% Full        | 80          |
| 157                                         | Low Bottled Gas Level    | 27          | <b>SENSOR TROUBLES - 380</b>                      |                           |             | 623                                           | Event Log 90% Full        | 81          |
| 158                                         | High Temp                | 28          | 380                                               | Sensor Trouble            | 55          | 624                                           | Event Log Overflow        | 82          |
| 159                                         | Low Temp                 | 29          | 381                                               | Loss of Super. -RF        | 56          | 625                                           | Time/Date Reset           | 83          |
| 161                                         | Loss of Air Flow         | 2A          | 382                                               | Loss of Super. - RPM      | 57          | 626                                           | Time/Date Inaccurate      | 84          |
| <b>FIRE SUPERVISORY - 200 &amp; 210</b>     |                          |             | 383                                               | Sensor Tamper             | 58          | 627                                           | Program Mode Entry        | 85          |
| 200                                         | Fire Supervisory         | 2B          | 384                                               | RF xmtr. Low Battery      | 59          | 628                                           | Program Mode Exit         | 86          |
| 201                                         | Low Water Pressure       | 2C          | <b>OPEN/CLOSE - 400</b>                           |                           |             | 631                                           | Exception Schedule Change | 87          |
| 202                                         | Low CO2                  | 2D          | 400                                               | Open/Close                | 5A          | 654                                           | System Inactivity         | 88          |

## Appendix B - Ademco CID Report Code List (All Codes)

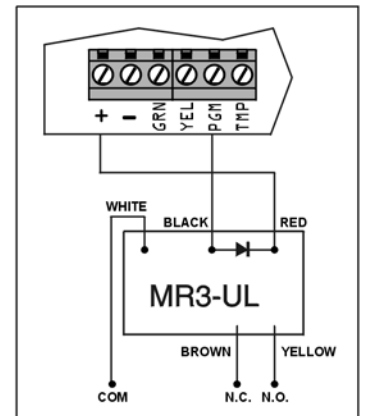
| System Event                             | Default Contact ID Report Code when option [3] is on in section [136] | System Event                             | Default Contact ID Report Code when option [3] is on in section [136] |
|------------------------------------------|-----------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------|
| Arming with Master Code (##)             | 3 4A1 - Close by user                                                 | Auxiliary supply trouble                 | 1 3AA - System trouble                                                |
| Arming with User Code (##)               | 3 4A1 - Close by user                                                 | Bell output current limit                | 1 321 - Bell 1                                                        |
| Arming with Keypad (##)                  | 3 4A9 - Keypad Close                                                  | Bell absent                              | 1 321 - Bell 1                                                        |
| Auto Arming                              | 3 4A3 - Automatic Close                                               | Clock lost                               | 1 626 - Time/Date inaccurate                                          |
| Arm with PC software                     | 3 4A7 - Remote arm/disarm                                             | Fire loop trouble                        | 1 373 - Fire trouble                                                  |
| Late To Close                            | 3 4A4 - Late to Close                                                 | Wireless Transmitter Low Battery         | 1 384 - RF xmtr. low battery                                          |
| No Movement                              | 3 4A4 - Late to Close                                                 | Wireless Transmitter Supervision Loss    | 1 381 - Loss of super. - RF                                           |
| Partial arming                           | 1 574 - Group bypass                                                  | Module fault                             | 1 333 - Expansion module failure                                      |
| Quick arming                             | 3 408 - Quick arm                                                     | Printer fault                            | 1 336 - Local printer failure                                         |
|                                          |                                                                       | Fail to communicate with central station | 1 354 - Fail to communicate                                           |
| Disarm with Master Code (##)             | 1 4A1 - Open by user                                                  | Wireless Transmitter Low Battery         | 1 384 - RF xmtr. low battery                                          |
| Disarm with User Code (##)               | 1 4A1 - Open by user                                                  | TLM trouble restore                      | 3 351 - Telco 1 fault restore                                         |
| Disarm with Keypad (##)                  | 1 4A9 - Keypad Open                                                   | AC Failure restore                       | 3 3A1 - AC loss restore                                               |
| Disarm after alarm with Master Code (##) | 1 4A1 - Open by user                                                  | Battery Failure restore                  | 3 3A9 - Battery test restore                                          |
| Disarm after alarm with User Code (##)   | 1 4A1 - Open by user                                                  | Auxiliary supply trouble restore         | 3 3AA - System trouble restore                                        |
| Disarm after alarm with Keypad (##)      | 1 4A9 - Keypad Open                                                   | Bell output current limit restore        | 3 321 - Bell 1 restore                                                |
|                                          |                                                                       | Bell absent restore                      | 3 321 - Bell 1 restore                                                |
| Auto Arming Cancellation                 | 1 4A5 - Deferred Open/Close                                           | Clock programmed                         | 3 626 - Time/Date Reset                                               |
| Disarm with PC software                  | 1 4A7 - Remote arm/disarm                                             | Fire loop trouble restore                | 3 373 - Fire trouble restore                                          |
| Disarm after an alarm with PC software   | 1 4A7 - Remote arm/disarm                                             | Wireless Transmitter Low Battery         | 3 384 - RF xmtr. low battery                                          |
|                                          |                                                                       | Wireless Transmitter Supervision Loss    | 3 381 - Loss of super. - RF                                           |
| Zone Bypassed (##)                       | 1 57A - Zone bypass                                                   | Module fault restore                     | 3 333 - Expansion module failure restore                              |
| Zone alarm (##)                          | 1 13A - Burglary Alarm                                                | Printer fault restore                    | 3 336 - Local printer failure restore                                 |
| Fire alarm (##)                          | 1 11A - Fire alarm                                                    | Fail to communicate with central station | 3 354 - Fail to communicate restore                                   |
| Zone alarm restore (##)                  | 3 13A - Burglary Alarm Restore                                        |                                          |                                                                       |
| Fire alarm restore (##)                  | 3 11A - Fire alarm Restore                                            | Cold Start                               | 1 3A8 - System shutdown                                               |
|                                          |                                                                       | Test Report engaged                      | 1 6A2 - Periodic test report                                          |
| Panic 1 - Emergency                      | 1 12A - Panic alarm                                                   | PC software communication finished       | 1 412 - Successful - download access                                  |
| Panic 2 - Medical                        | 1 1AA - Medical alarm                                                 | Installer on site                        | 1 627 - Program mode Entry                                            |
| Panic 3 - Fire                           | 1 115 - Pull Station                                                  | Installer programming finished           | 1 628 - Program mode Exit                                             |
|                                          |                                                                       | Delinquency                              | 1 654 - Inactivity                                                    |
| Recent closing                           | 3 4AA - Open/Close                                                    |                                          |                                                                       |
| Global zone shutdown                     | 1 574 - Group bypass                                                  |                                          |                                                                       |
| Duress alarm                             | 1 121 - Duress                                                        |                                          |                                                                       |
| Zone shutdown (##)                       | 1 57A - Zone bypass                                                   |                                          |                                                                       |
|                                          |                                                                       |                                          |                                                                       |
| Zone tampered (##)                       | 1 144 - Sensor tamper                                                 |                                          |                                                                       |
| Zone tamper restore (##)                 | 3 144 - Sensor tamper restore                                         |                                          |                                                                       |
|                                          |                                                                       |                                          |                                                                       |
| AC Failure                               | 1 3A1 - AC loss                                                       |                                          |                                                                       |
| Battery Failure                          | 1 3A9 - Battery test failure                                          |                                          |                                                                       |

# Bus Module Connections

## Printer Module (APR3-PRT1)

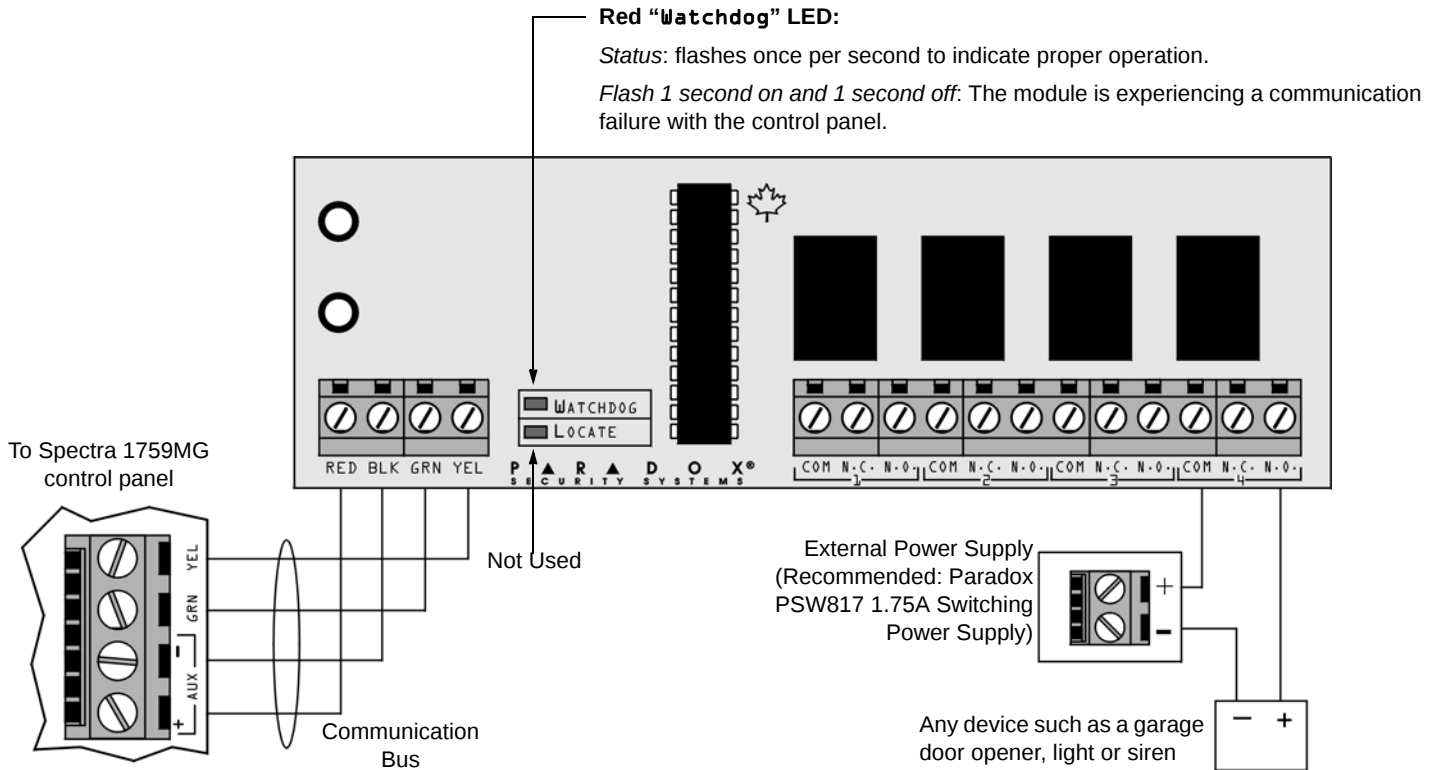


Connecting the PGM Output



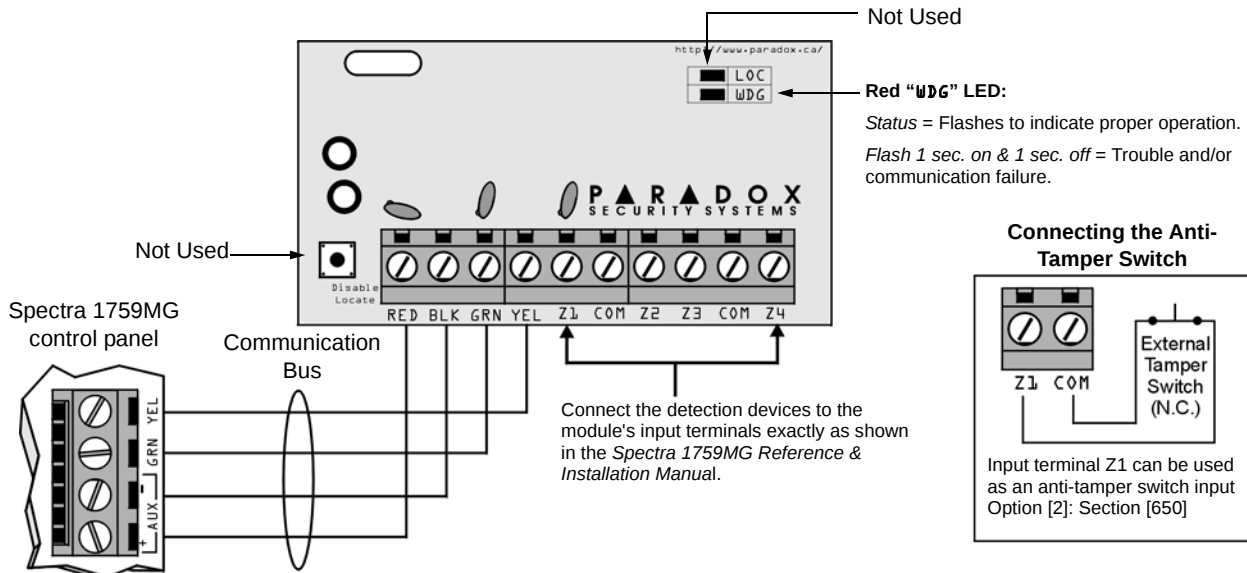
**Remove AC power and battery before adding APR3-PRT1 to the system. Do not connect any modules more than 76m (250ft) from the control panel. Only one Printer Module can be connected per Spectra control panel.**

## 4-PGM Output Module (APR3-PGM4)



**⚠ Remove AC and battery from the control panel before adding the 4-PGM Output Module to the system. Do not connect the APR3-PGM4 more than 76m (250ft) from the control panel. Only one APR3-PGM4 can be connected per Spectra control panel.**

## 4-zone expansion Bus Module (SPC-ZX4 and APR3-ZX4)



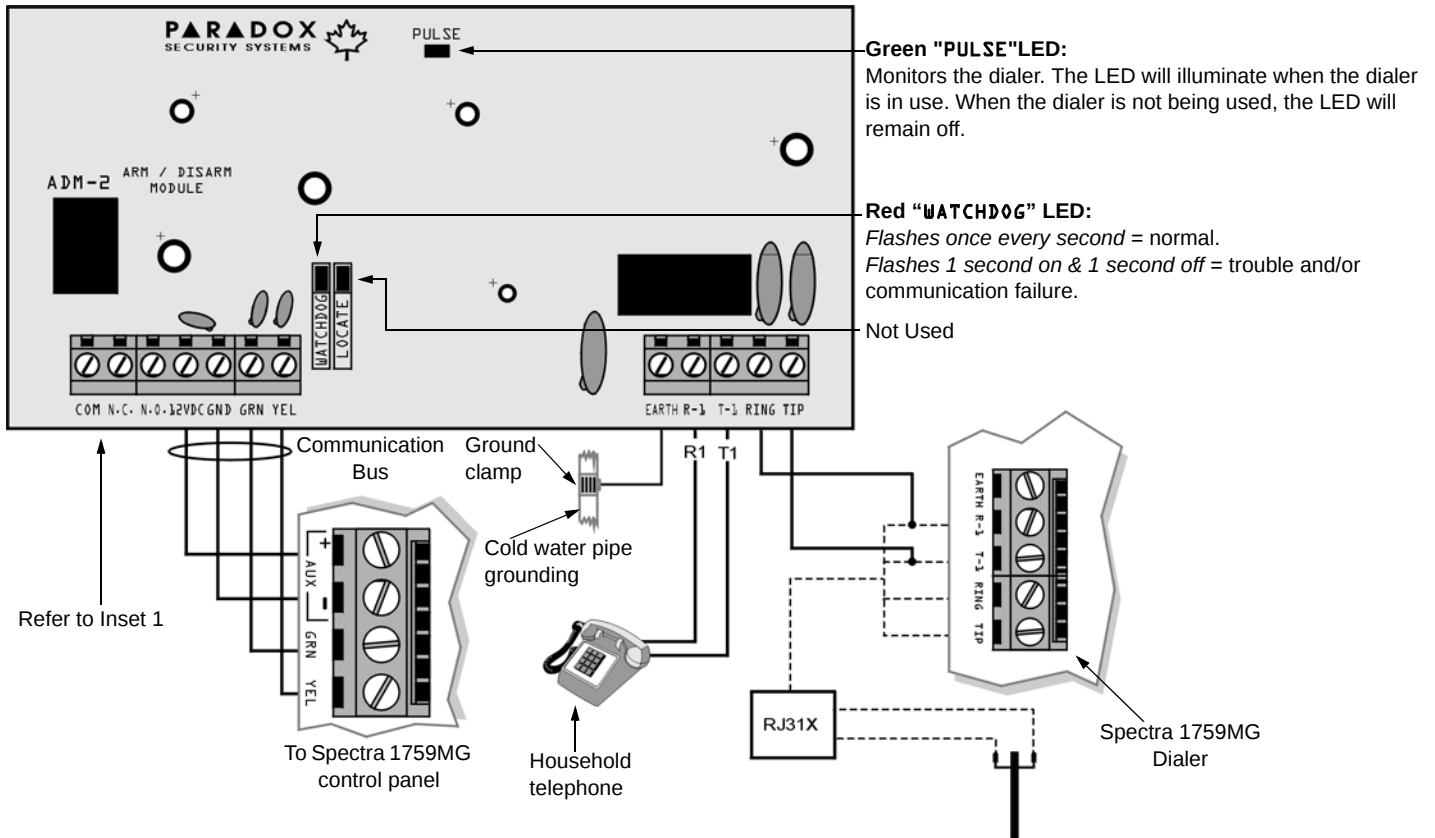
**⚠ Remove AC and battery power from the control panel before connecting the module to the communication bus. Do not connect the APR3-ZX4 or SPC-ZX4 more than 76m (250ft) from the control panel. Only one APR3-ZX4 or one SPC-ZX4 can be connected per Spectra control panel.**



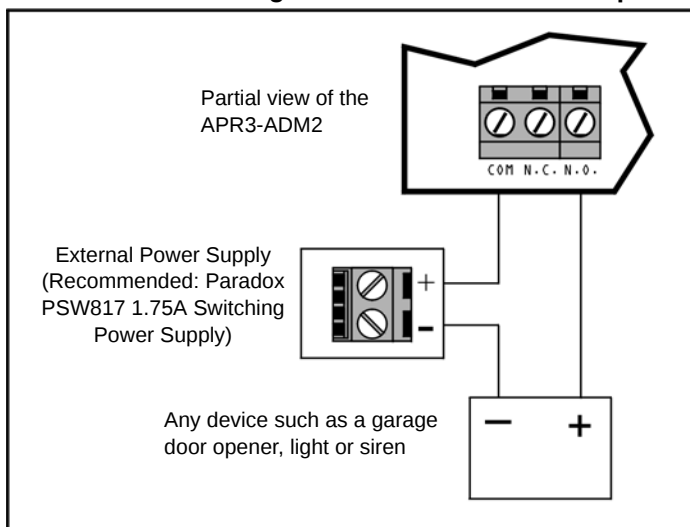
## Voice-assisted Arm/Disarm Bus Module (APR3-ADM2)



**Remove AC and battery power from the control panel before adding the APR3-ADM2 module to the system. Do not connect the APR3-ADM2 more than 76m (250ft) from the control panel. Only one APR3-ADM2 can be connected per Spectra control panel.**

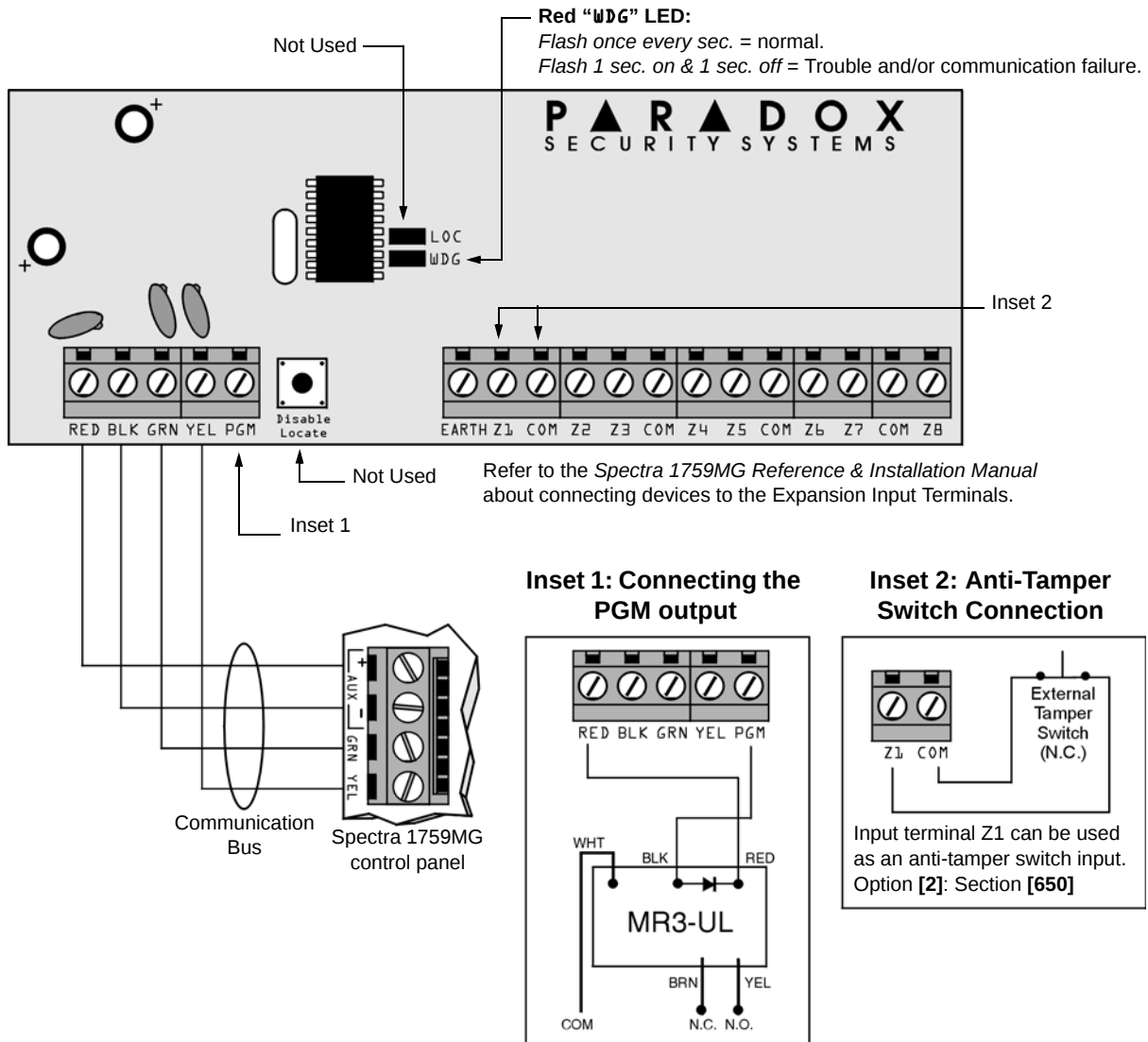


### Inset 1: Connecting the APR3-ADM2 PGM Output



**To reset the standalone code of the APR3-ADM2, you have to perform a hardware reset of the Spectra control panel.**

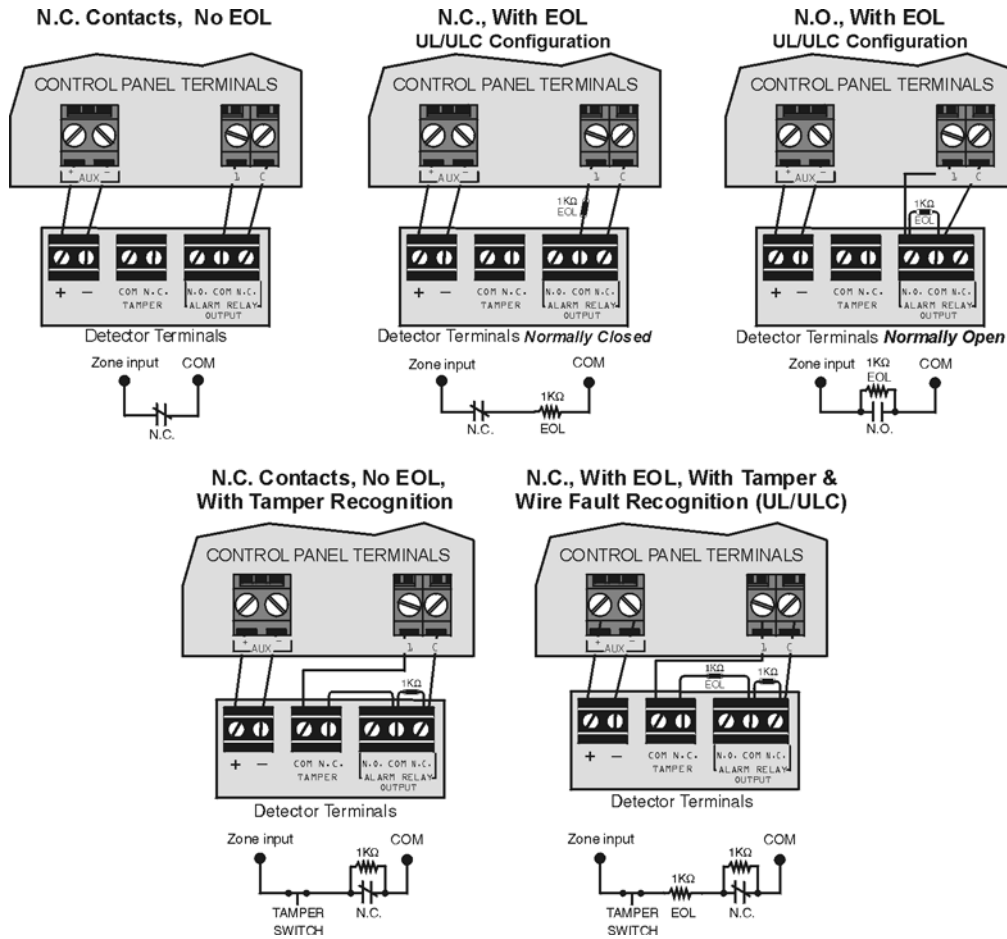
## 8-Zone Expansion Bus Modules (SPC-ZX8 and APR3-ZX8)



**Remove AC power and battery before adding a module to the system. Do not connect the APR3-ZX8 or SPC-ZX8 more than 76m (250ft) from the control panel. Only one SPC-ZX8 or APR3-ZX8 can be connected per Spectra control panel.**

# Hardware Connections

## Single Zone Inputs



## Connecting Fire Circuits, Keyswitches and PGMs



Program the PGM with the "[PG]/[FNC1] Key was pressed" Activation Event so that the smoke detectors can be reset by pressing the [PG] or [FNC1] key. See Event Group # 5 on page 9.



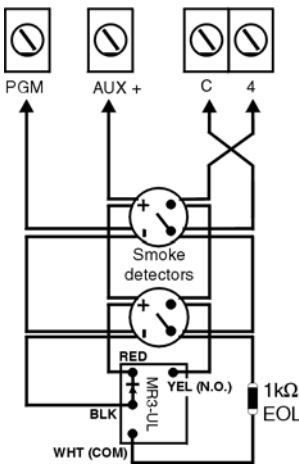
**All 4-wire smoke detectors must be connected using the daisy chain configuration.**

### Programming a Wireless Fire Zone

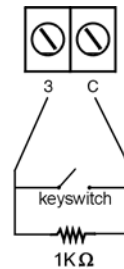
Fire zones cannot be assigned to expansion zones. As a result, when installing a wireless smoke detector, the corresponding zone must be programmed as follows:

- 1) Enter [5] in the Zone Definition to define it as a 24Hr Burglary Alarm (see page 7).
- 2) Disable [4] and enable [5] in Zone Options to set the zone's alarm type to a pulsed Audible Alarm (see page 7).
- 3) Disable [1] and [2] in Zone Options to disable the zone's Auto Zone Shutdown and Bypass Enabled features (see page 7).
- 4) Change the zone's report code from a Burglary Report Code (Prog. Value 11) to a Fire Report Code (Prog. Value 04). See Appendix A on page 30. If using Ademco Contact I.D., set the Contact ID Options from All Codes to Programmable (section [136] option [3] = OFF) and then enter the report code manually (see page 14).

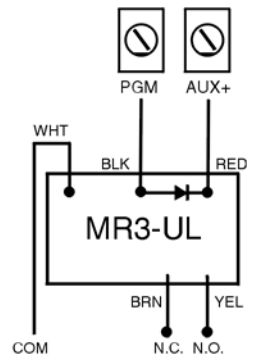
### Fire Circuits 4-Wire Installation Control Panel Terminals



### Keyswitch

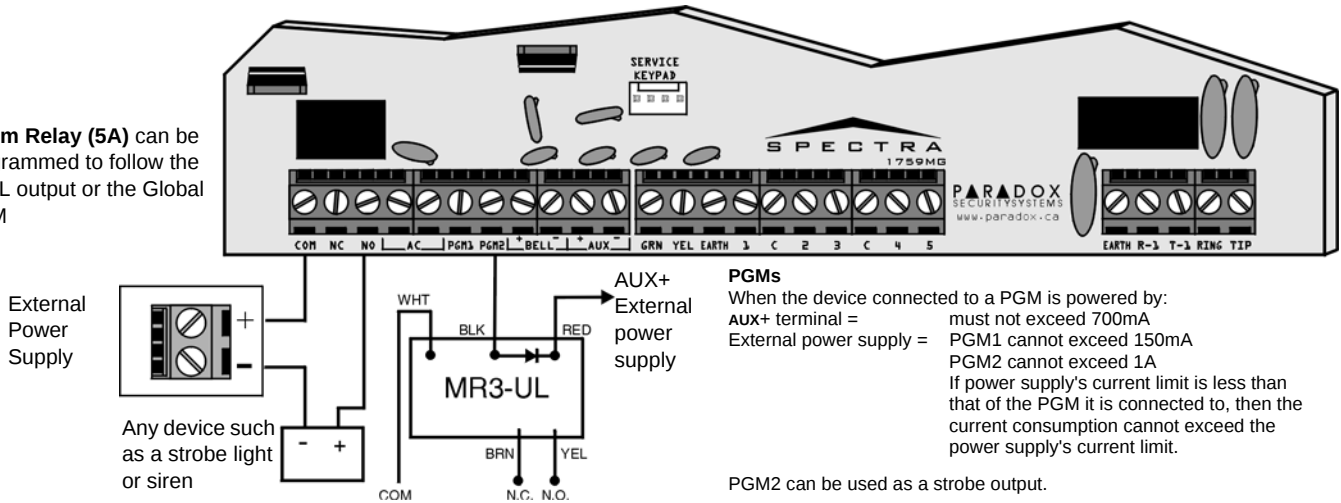


### PGM



## Alarm Relay and PGM Connections

**Alarm Relay (5A)** can be programmed to follow the BELL output or the Global PGM



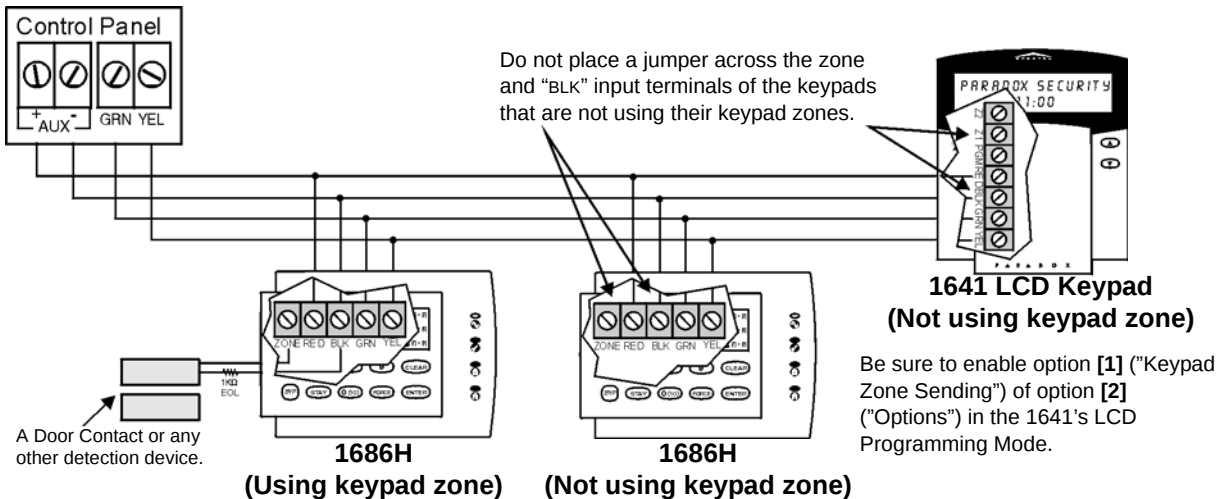
## Connecting More Than Two Keypads

If there are more than 2 keypads connected to the control panel and at least one keypad zone is being used, connect as shown and program as described in the *Spectra 1759MG Reference & Installation Manual*.



When a 1641 LCD keypad is connected to Spectra, the Keypad Zone Sending option (Option [2] key [1]) determines whether the status of the keypad zone will be transmitted to the control panel. Refer to the *1641 Installer's Guide* for more information. The Keypad Zone Sending option of the 1641 keypad must be enabled during the following conditions:

- If you are using both keypad zones and at least one is from a 1641 keypad.
- If you are using the keypad zones of other types of keypads, such as a 1686H 10-zone LED keypad, and the keypad zone definition of the 1641 keypad (keypad zone 1 or keypad zone 2; Option [2] key [3]) matches that of another connected keypad.

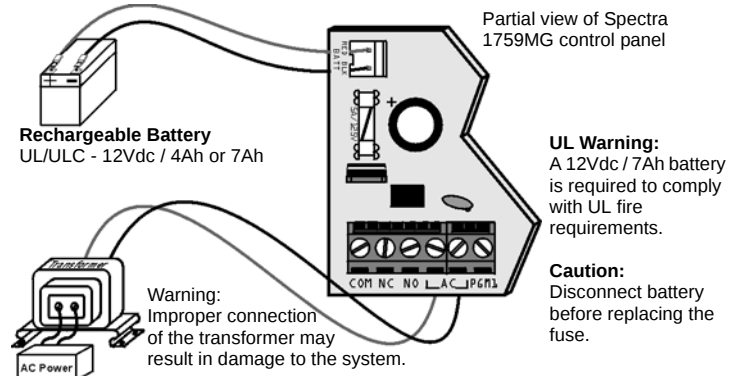


## AC Power & Backup Battery Connections

**Transformer Requirements Table**

|                                                               |                                |                                                          |
|---------------------------------------------------------------|--------------------------------|----------------------------------------------------------|
| Transformer:                                                  | Amseco XP-1620<br>16VAC 20VA * | Recommended: 16VAC 40VA<br>UL: Basler BE156240CAA007     |
| Spectra DC Power Supply rated at:                             | 1.2A                           | 1.5A                                                     |
| Auxiliary Supply can provide a maximum of:                    | typ: 600mA<br>max: 700mA       | typ: 600mA<br>max: 700mA<br>UL installations: typ. 200mA |
| Acceptable Battery Charge Currents (section [127] option [5]) | 350mA                          | 350mA / 700mA                                            |

\* Not verified by UL



## Spectra 1759MG PCB Layout

### "STATUS" LED:

Flash once every second = normal

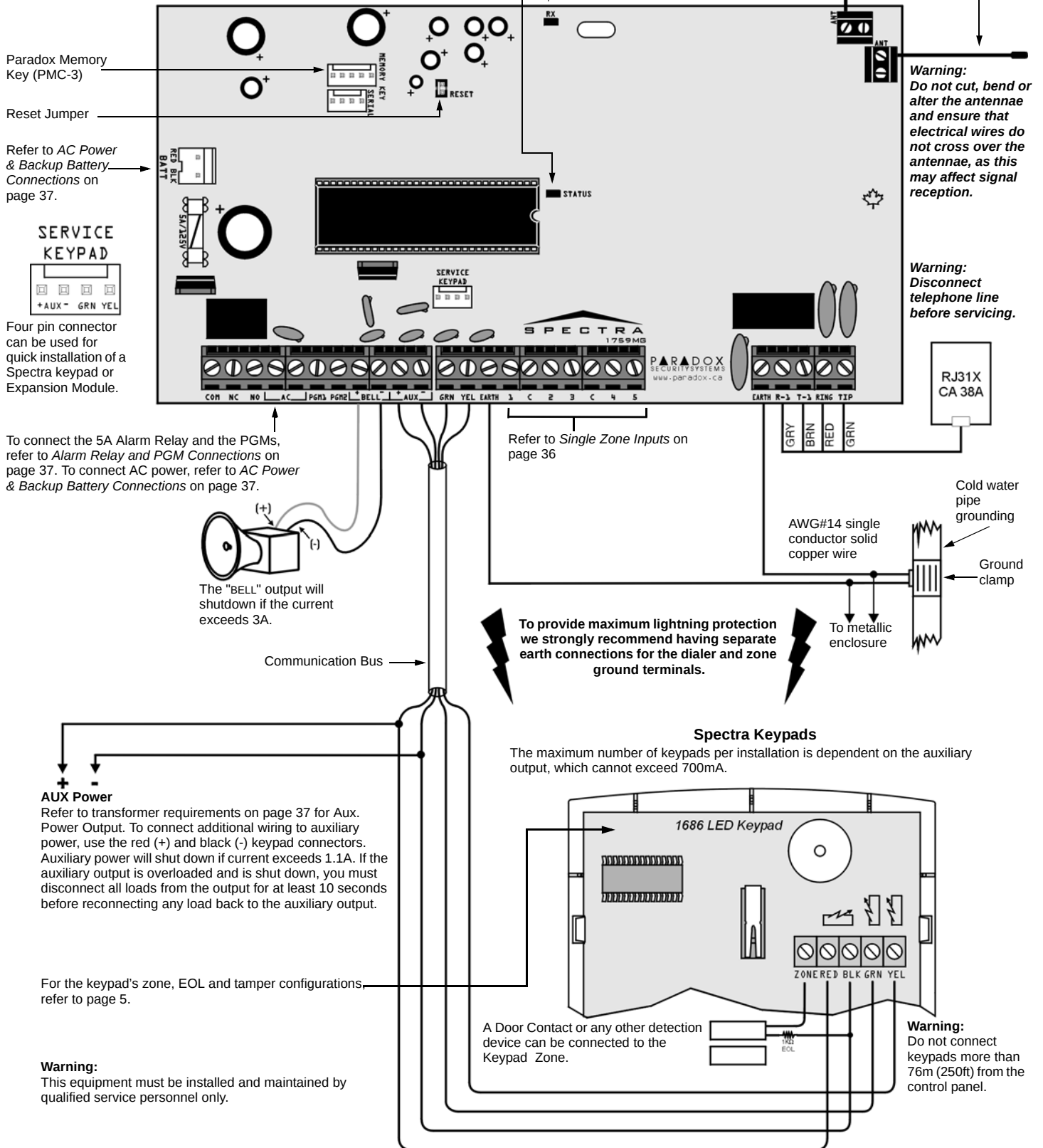
Flashes ON 1 second and OFF 1 second = trouble

Always ON = panel is using phone line

Fast flash 4 seconds after power up = installer lock enabled

### "RX" LED:

Flashes quickly when receiving signals from wireless devices.



**⚠ For UL and C-UL warnings, refer to the UL and C-UL Warnings section at the back of the Spectra 1759MG Reference & Installation Manual.**

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