



## System Programming Guide

**1728: V2.4**

**1738: V2.4**

### Default Installer Code

**0000 / 000000** (see section [281] on page 17)

### Default System Master Code

**1234 / 123456** (see section [301] on page 17)

### 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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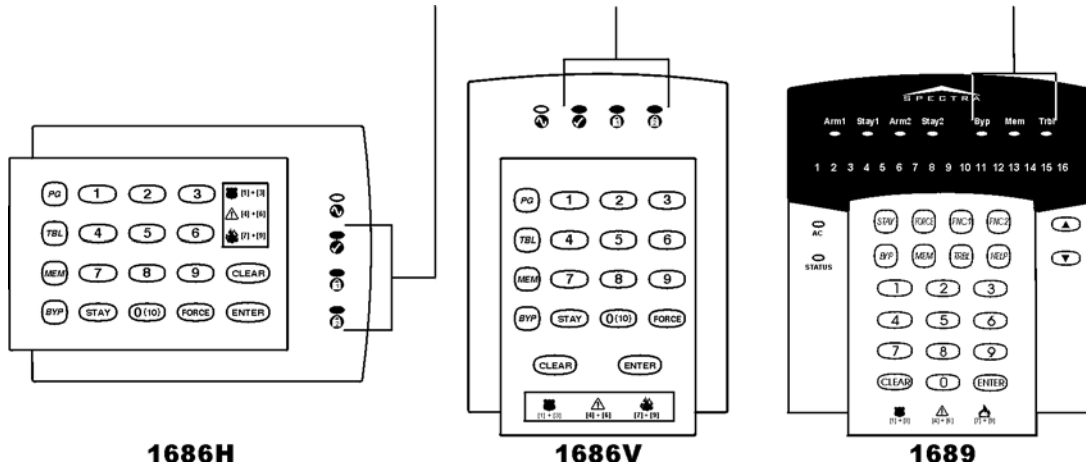
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***WARNING: This equipment must be installed and maintained by qualified service personnel only.***

### 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 tamper switch are programmed through the keypad's programming mode.

#### 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.

**!** After two minutes, the keypad exits programming mode.

#### Key [1] - Keypad Zone Selection ("Zone Programming" on page 4)

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.

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 1728 PCB Layout" on page 38 and "Spectra 1738 PCB Layout" on page 39 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 tamper switch. When key **[3]** is OFF (not illuminated), the tamper switch is disabled. When key **[3]** is ON (illuminated), the tamper switch is enabled.


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

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

**!** The keypad can be ordered with or without a tamper switch. If the keypad has no tamper switch, key **[3]** will be OFF by default. If the keypad has a 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. In installations that require using mostly the expansion inputs, refer to Reassign Keypad Zone 2 (section [126] option [7] on page 10) and Reassign Zones to Expansion Inputs (section [126] option [8] on page 10).

 The Expansion zones need to be enabled in order for Zone Programming to work. Refer to “Zone Expansion Modules” on page 26.



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

*Zone Recognition Table for 1728*

	Section [126] Option [7]: OFF Option [8]: OFF		Section [126] Option [7]: ON Option [8]: OFF		Section [126] Option [7]: OFF Option [8]: ON		Section [126] Option [7]: ON Option [8]: ON	
Control Panel	No ATZ	With ATZ	No ATZ	With ATZ	No ATZ	With ATZ	No ATZ	With ATZ
Input 1 =	Zone 1	Zones 1 & 6	Zone 1	Zones 1 & 6	Zone 1	Zones 1 & 3	Zones 1	Zones 1 & 6
Input 2 =	Zone 2	Zones 2 & 7	Zone 2	Zones 2 & 7	Zone 2	Zones 2 & 4	Zones 2	Zones 2 & 7
Input 3 =	Zone 3	Zones 3 & 8	Zone 3	Zones 3 & 8	N/A	N/A	N/A	N/A
Input 4 =	Zone 4	Zones 4 & 9	Zone 4	Zones 4 & 9	N/A	N/A	N/A	N/A
Input 5 =	Zone 5	Zones 5 & 10	Zone 5	Zones 5 & 10	N/A	N/A	N/A	N/A
<b>Keypad</b>								
Zone 1 =	Zone 6	Zone 11	Zone 6	Zone 11	Zone 3	Zone 5	Zone 3	Zone 5
Zone 2 =	Zone 7	Zone 12	N/A	N/A	Zone 4	Zone 6	N/A	N/A
<b>Expansion</b>								
Input 1 =	Zone 8	Zone 13	Zone 7	Zone 12	Zone 5	Zone 7	Zone 4	Zone 6
Input 2 =	Zone 9	Zone 14	Zone 8	Zone 13	Zone 6	Zone 8	Zone 5	Zone 7
Input 3 =	Zone 10	Zone 15	Zone 9	Zone 14	Zone 7	Zone 9	Zone 6	Zone 8
Input 4 =	Zone 11	Zone 16	Zone 10	Zone 15	Zone 8	Zone 10	Zone 7	Zone 9
Input 5 =	Zone 12	N/A	Zone 11	Zone 16	Zone 9	Zone 11	Zone 8	Zone 10
Input 6 =	Zone 13	N/A	Zone 12	N/A	Zone 10	Zone 12	Zone 9	Zone 11
Input 7 =	Zone 14	N/A	Zone 13	N/A	Zone 11	Zone 13	Zone 10	Zone 12
Input 8 =	Zone 15	N/A	Zone 14	N/A	Zone 12	Zone 14	Zone 11	Zone 13

= Not displayed on 10-Zone LED Keypads (1686H & 1686V)

Section [126] option [7] = Reassign Keypad Zone 2 (see page 10)

Section [126] option [8] = Reassign Zones to Expansion Inputs (see page 10)

*Zone Recognition Table for 1738*

	Section [126] Option [7]: OFF		Section [126] Option [7]: ON	
Control Panel	No ATZ	With ATZ	No ATZ	With ATZ
Input 1 =	Zone 1	Zone 1 & 8	Zone 1	Zone 1 & 8
Input 2 =	Zone 2	Zone 2 & 9	Zone 2	Zone 2 & 9
Input 3 =	Zone 3	Zone 3 & 10	Zone 3	Zone 3 & 10
Input 4 =	Zone 4	Zone 4 & 11	Zone 4	Zone 4 & 11
Input 5 =	Zone 5	Zone 5 & 12	Zone 5	Zone 5 & 12
Input 6 =	Zone 6	Zone 6 & 13	Zone 6	Zone 6 & 13
Input 7 =	Zone 7	Zone 7 & 14	Zone 7	Zone 7 & 14
<b>Keypad</b>				
Zone 1 =	Zone 8	Zone 15	Zone 8	Zone 15
Zone 2 =	Zone 9	Zone 16	N/A	N/A
<b>Expansion</b>				
Input 1 =	Zone 10	N/A	Zone 9	Zone 16
Input 2 =	Zone 11	N/A	Zone 10	N/A
Input 3 =	Zone 12	N/A	Zone 11	N/A
Input 4 =	Zone 13	N/A	Zone 12	N/A
Input 5 =	Zone 14	N/A	Zone 13	N/A
Input 6 =	Zone 15	N/A	Zone 14	N/A
Input 7 =	Zone 16	N/A	Zone 15	N/A
Input 8 =	N/A	N/A	Zone 16	N/A

### 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.
5. Enter one digit from the **Partition Assignment** table.
6. Select one or more options from the **Zone Options** table.
7. Press the **[ENTER]** key.

#### ZONE DEFINITION

**Empty** - Zone Disabled

- 1 - Entry Delay 1
  - 2 - Entry Delay 2
  - 3 - Follow
  - 4 - Instant
  - 5 - 24 Hr. Burglary
  - 6 - 24 Hr. Buzzer
- Additional definitions for on-board terminals:
- 7 - Keyswitch
  - 8 - Fire 24 Hr
  - 9 - Delayed Fire 24 Hr

#### PARTITION ASSIGNMENT

**Empty** - Zone Disabled

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

#### ZONE OPTIONS

- 1 - Auto Zone Shutdown
- 2 - Bypassable Zone
- 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



**[FORCE]** key = empty

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
[016] = Zone 16:				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. In the 1728 the on-board zones are zones 01 to 05 and in the 1738 the on-board zones are zones 01 to 07.**

## 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]	___/___/___ x 10 msec.	ZONE SPEED (ZONE 16)	600 msec.
 If ATZ is enabled (section [132] option [5]), do not set the Zone Speed to less than 50msec. as this may cause false alarms.			
[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 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

\* Maximum 60 seconds for UL listed systems.

\*\* 5 minutes minimum for cUL installations.

## 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  
[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  
*Used to activate PGMs on  
expansion modules & LCD keypads.*

\_\_\_/\_\_\_  
\_\_\_/\_\_\_

01 = Partition 1  
02 = Partition 2  
99 = Any Partition

*The Sub-Groups preceded by  
“(Partition 1)” cannot be  
assigned to activate Partition 2.*

Event Group #	Sub-Group #
<b>00 = Zone OK</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>01 = Zone Open</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>02 = Partition Status</b>	00 = System not ready ( <i>Partition 1 only</i> ) 01 = System ready ( <i>Partition 1 only</i> ) 02 = Steady Alarm in Partition 03 = Pulsed Alarm in Partition 04 = Pulsed or Steady Alarm in Partition 05 = Alarm in Partition Restored 06 = Bell Squawk Activated ( <i>Partition 1 only</i> ) 07 = Bell Squawk Deactivated ( <i>Partition 1 only</i> ) 08 = Ground start ( <i>Partition 1 only</i> ) 09 = Disarm Partition 10 = Arm Partition 11 = Entry Delay (breach when system is armed) 99 = Any Sub-Group
<b>05 = Non-Reportable Events</b>	00 = Telephone Line Trouble ( <i>Partition 1 only</i> ) 01 = [PG] or [FNC1] key was pressed ( <i>Partition 1 only</i> ). This option can also be used to reset smoke detectors. 02 = Instant Arming 03 = Stay Arming 04 = Force Arming 05 = Fast Exit (Force & Regular Only) 06 = PC Fail to Communicate ( <i>Partition 1 only</i> ) 07 = Midnight ( <i>Partition 1 only</i> ) 99 = Any Sub-Group ( <i>Partition 1 only, except 02 to 05</i> )
<b>06 = Arm/Disarm with Remote Control</b>	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control
<b>07 = Button Pressed on Remote</b> (see button option “B” on page 24)	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control
<b>08 = Button Pressed on Remote</b> (see button option “C” on page 24)	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control

Event Group #	Sub-Group #
<b>09 = Button Pressed on Remote</b> (see button option "D" on page 24)	01 to 08 = Remote Controls 1 to 8 99 = Any Remote Control
<b>10 = Bypass Programming</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>11 = User Activated PGM</b>	01 to 48 = User Code Numbers 001 to 048 ( <i>Partition 1 only</i> ) 99 = Any User Code
<b>12 = Zone with Delay Transmission Option Enabled is Breached</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>13 = Arm with User Code</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>14 = Special Arm</b>	00 = Auto Arming (timed/no movement) 01 = Late to Close (Auto-Arming failed) 02 = No Movement Auto-Arming 03 = Partial Arming (Stay, Force, Instant, Bypass) 04 = One-Touch Arming 05 = Arm with WinLoad Software 07 = Closing Delinquency ( <i>Partition 1 only</i> ) 99 = Any Sub-Group
<b>15 = Disarm with User Code</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>16 = Disarm After Alarm w/ User Code</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>17 = Cancel Alarm with User Code</b>	01 to 48 = User Code Numbers 001 to 048 99 = Any User Code
<b>18 = Special Disarm</b>	00 = Cancel Auto Arm (timed/no movement) 01 = Disarm with WinLoad Software 02 = Disarm after alarm with WinLoad Software 03 = Cancel Alarm with WinLoad Software 99 = Any Sub-Group
<b>19 = Zone Bypassed on Arming</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>20 = Zone in Alarm</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>21 = Fire Alarm</b>	1728: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>22 = Zone Alarm Restore</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>23 = Fire Alarm Restore</b>	1728: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>24 = Special Alarm</b>	00 = Emergency Panic 01 = Auxiliary Panic 02 = Fire Panic 03 = Recent Closing 04 = Auto Zone Shutdown 05 = Duress Alarm 06 = Keypad Lockout 99 = Any Sub-Group
<b>25 = Auto Zone Shutdown</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>26 = Zone Tamper</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>27 = Zone Tamper Restore</b>	01 to 16 = Zones 1 to 16 99 = Any Zone



Event Group #	Sub-Group #
<b>28 = System Trouble</b>	01 = AC Loss: only after <i>Power Failure Delay</i> has elapsed ( <i>Partition 1 only</i> ) 02 = Battery Failure ( <i>Partition 1 only</i> ) 03 = Auxiliary current overload ( <i>Partition 1 only</i> ) 04 = Bell current overload ( <i>Partition 1 only</i> ) 05 = Bell disconnected ( <i>Partition 1 only</i> ) 06 = Timer Loss ( <i>Partition 1 only</i> ) 07 = Fire Loop Trouble ( <i>Partition 1 only</i> ) 08 = Future Use 09 = Module Fault ( <i>Partition 1 only</i> ) 10 = Printer Fault ( <i>Partition 1 only</i> ) 11 = Fail to Communicate ( <i>Partition 1 only</i> ) 99 = Any Sub-Group ( <i>Partition 1 only</i> )
<b>29 = System Trouble Restore</b>	00 = TLM restore ( <i>Partition 1 only</i> ) 01 = AC Loss restore ( <i>Partition 1 only</i> ) 02 = Battery Failure restore ( <i>Partition 1 only</i> ) 03 = Auxiliary current overload restore ( <i>Partition 1 only</i> ) 04 = Bell current overload restore ( <i>Partition 1 only</i> ) 05 = Bell disconnected restore ( <i>Partition 1 only</i> ) 06 = Timer Programmed ( <i>Partition 1 only</i> ) 07 = Fire Loop Trouble restore ( <i>Partition 1 only</i> ) 08 = Future Use 09 = Module Fault restore ( <i>Partition 1 only</i> ) 10 = Printer Fault restore ( <i>Partition 1 only</i> ) 11 = Fail to Communicate restore ( <i>Partition 1 only</i> ) 99 = Any Trouble Restore ( <i>Partition 1 only</i> )
<b>30 = Special Reporting</b>	00 = System Power Up ( <i>Partition 1 only</i> ) 01 = Test Report ( <i>Partition 1 only</i> ) 02 = WinLoad Software Access ( <i>Partition 1 only</i> ) 03 = WinLoad Software Access finished ( <i>Partition 1 only</i> ) 04 = Installer enters programming mode ( <i>Partition 1 only</i> ) 05 = Installer exits programming mode ( <i>Partition 1 only</i> ) 99 = Any Sub-Group ( <i>Partition 1 only</i> )
<b>31 = Wireless Transmitter Supervision Loss</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>32 = Wireless Transmitter Supervision Loss Restore</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>33 = Arming with a Keyswitch</b>	1728: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>34 = Disarming with a Keyswitch</b>	1728: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>35 = Disarm after Alarm with a Keyswitch</b>	1728: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>36 = Cancel Alarm with a Keyswitch</b>	1728: 01 to 05 = Zones 1 to 5 (on-board inputs) 1738: 01 to 07 = Zones 1 to 7 (on-board inputs) 99 = Any Zone
<b>37 = Wireless Transmitter Low Battery</b>	01 to 16 = Zones 1 to 16 99 = Any Zone
<b>38 = Wireless Transmitter Low Battery Restore</b>	01 to 16 = Zones 1 to 16 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>	1 <b>Disabled</b>	1 Enabled
[2] <i>To Exit Confidential Mode</i>	1 <b>Enter Access Code</b>	1 Press a Key
[3] <i>Confidential Mode Timer</i>	1 <b>2 minutes</b>	1 5 seconds
[4] <i>PGM1 Normal State</i>	1 <b>Normally Open (N.O.)</b>	1 Normally Closed (N.C.)
[5] <i>PGM2 Normal State</i>	1 <b>Normally Open (N.O.)</b>	1 Normally Closed (N.C.)
[6] <i>Global PGM Normal State</i>	1 <b>Normally Open (N.O.)</b>	1 Normally Closed (N.C.)
[7] <i>Reassign Keypad Zone 2</i>	1 <b>Disabled</b>	1 Enabled
[8] <i>Reassign Zones to Expansion Inputs* (1728 only)</i> OR <i>Zone 1 Becomes 2-wire Smoke Input (1738 only)</i>	1 <b>Disabled</b>	1 Enabled

\* *Reassign Zones to Expansion Inputs* changes the zone numbering to increase the number of expansion inputs that can be displayed on 10-Zone LED Keypads. Refer to the *1728 & 1738 Reference & Installation Manual* for details.

### SECTION [127]: General Options

Option	OFF	ON
[1] <i>Partitioning</i>	1 <b>Disabled</b>	1 Enabled
[2] <i>Access Code Length</i>	1 6-digits	1 <b>4-digits</b>
[3] <i>Keypad Audible Trouble Warning</i>	1 Disabled	1 <b>Enabled</b>
[4] <i>Lock System Master Code</i>	1 <b>Disabled</b>	1 Enabled
[5] <i>Battery Charge Current (1738 only)</i>	1 <b>350mA</b>	1 700mA
[6] <i>User Code 048 is a Duress Code</i>	1 <b>Disabled</b>	1 Enabled
[7] <i>Alarm Relay follows (1738 only)</i>	1 <b>Bell Output</b>	1 Global PGM
[8] <i>ATZ Wiring Options (V2.4 or higher)</i>	1 <b>Series Wiring</b>	1 Parallel Wiring

### SECTION [128]: General Options

Option	OFF	ON
[1] <i>Panic 1: Keys [1] &amp; [3]</i>	1 <b>Disabled</b>	1 Enabled
[2] <i>Panic 2: Keys [4] &amp; [6]</i>	1 <b>Disabled</b>	1 Enabled
[3] <i>Panic 3: Keys [7] &amp; [9]</i>	1 <b>Disabled</b>	1 Enabled
[4] <i>Panic 1: Silent or Audible</i>	1 <b>Silent</b>	1 Audible
[5] <i>Panic 2: Silent or Audible</i>	1 <b>Silent</b>	1 Audible
[6] <i>Panic 3: Silent or Fire</i>	1 <b>Silent</b>	1 Fire
[7] <i>Keypad 1 Tamper Supervision</i>	1 <b>Disabled</b>	1 Enabled
[8] <i>Keypad 2 Tamper Supervision</i>	1 <b>Disabled</b>	1 Enabled

### SECTION [129]: General Options

Option	OFF	ON
[1] <i>PGM2 Output Activation Option</i>	1 <b>Steady</b>	1 Pulse (flash)
[2] <i>PGM2 Pulse Once Every 30sec if System Armed</i>	1 <b>Disabled</b>	1 Enabled
[3] <i>PGM2 Pulse On Arm, Twice On Disarm</i>	1 <b>Disabled</b>	1 Enabled
[4] <i>ZX4 &amp; ZX8 Zone Expansion Module Supervision</i>	1 <b>Disabled</b>	1 Enabled
[5] <i>Wireless Module Supervision</i>	1 <b>Disabled</b>	1 Enabled
[6] <i>Wireless Module Low Battery Supervision</i>	1 <b>Disabled</b>	1 Enabled
[7] <i>4-PGM Expansion Module Supervision (APR3-PGM4)</i>	1 <b>Disabled</b>	1 Enabled
[8] <i>Printer Module Supervision (APR3-PRT1)</i>	1 <b>Disabled</b>	1 Enabled

**Bold = Default Setting**

## SECTION [130]: Arming/Disarming Options

Option		OFF	ON
[1]	<i>One-Touch Regular Arming*</i>	1 <b>Disabled</b>	1 Enabled
[2]	<i>One-Touch Stay Arming*</i>	1 <b>Disabled</b>	1 Enabled
[3]	<i>One-Touch Force Arming*</i>	1 <b>Disabled</b>	1 Enabled
[4]	<i>One-Touch Bypass Programming*</i>	1 <b>Disabled</b>	1 Enabled
[5]	<i>Restrict Arming on Battery Failure</i>	1 <b>Disabled</b>	1 Enabled
[6]	<i>Restrict Arming on Tamper Failure</i>	1 <b>Disabled</b>	1 Enabled
[7]	<i>Bell Squawk on Arm/Disarm with Keypad</i>	1 <b>Disabled</b>	1 Enabled
[8]	<i>Beep on Exit Delay</i>	1 Disabled	1 <b>Enabled</b>

## SECTION [131]: Arming/Disarming Options

Option		OFF	ON
[1]	<i>Report Disarming</i>	1 Always	1 <b>Only after alarm</b>
[2]	<i>Regular Arming Switches to Force Arming* †</i>	1 <b>Disabled</b>	1 Enabled
[3]	<i>Bell Squawk on Arm/Disarm with Remote Control (must be enabled for UL installations)</i>	1 <b>Disabled</b>	1 Enabled
[4]	<i>No Exit Delay When Arming with a Remote Control</i>	1 <b>Disabled</b>	1 Enabled
[5]	<i>No Exit Delay Beeps and No Bell Squawk When Stay Arming</i>	1 <b>Disabled</b>	1 Enabled
[6]	<i>Restrict Arming On Wireless Transmitter Supervision Loss</i>	1 <b>Disabled</b>	1 Enabled
[7]	<i>Generate Supervision Loss if Detected on Bypassed Wireless Zone</i>	1 <b>Yes</b>	1 No
[8]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A

## 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 When armed: Follows <i>Zone Alarm Types</i>
ON	OFF	When disarmed: GENERATES SILENT ALARM When armed: Follows <i>Zone Alarm Types</i>
ON	ON	When disarmed: GENERATES AUDIBLE ALARM When armed: Follows <i>Zone Alarm Types</i>

OFF

ON

1 see table

1 see table

[3]

Generate Tamper if detected on Bypassed Zone

1 Yes

1 No

[4]

EOL (end-of-line) Resistors

1 No EOL

1 Use EOL Resistors

[5]

ATZ Zone Doubling

1 Disabled

1 Enabled

[6]

Report Zone Restore

1 On Bell Cut-off

1 On Zone Closure

[7]&[8]

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

OFF

ON

1 see table

1 see table

\* Not to be used with UL installations.

† This cannot be done using a keyswitch. Force arming is not supported by keyswitches.

**Bold = Default Setting**

## SECTION [133]: Partition 1 Options

Option		OFF	ON
[1]	<i>Auto-Arm on Time</i>	1 <b>Disabled</b>	1 Enabled
[2]	<i>Auto-Arm on No Movement</i>	1 <b>Disabled</b>	1 Enabled
[3]	<i>Auto Arming = Regular or Stay*</i>	1 <b>Regular Arming</b>	1 Stay Arming
[4]	<i>Switch to Stay Arming if no entry delay is opened</i>	1 <b>Disabled</b>	1 Enabled
[5]	<i>Stay Arming with Delay Partition 1 (Delay = [070])</i>	1 <b>Disabled</b>	1 Enabled
[6]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A
[7]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A
[8]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A

## SECTION [134]: Partition 2 Options

Option		OFF	ON
[1]	<i>Auto-Arm on Time</i>	1 <b>Disabled</b>	1 Enabled
[2]	<i>Auto-Arm on No Movement</i>	1 <b>Disabled</b>	1 Enabled
[3]	<i>Auto Arming = Regular or Stay*</i>	1 <b>Regular Arming</b>	1 Stay Arming
[4]	<i>Switch to Stay Arming if no entry delay is opened</i>	1 <b>Disabled</b>	1 Enabled
[5]	<i>Stay Arming with Delay Partition 2 (Delay = [070])</i>	1 <b>Disabled</b>	1 Enabled
[6]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A
[7]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A
[8]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A

## SECTION [135]: Dialer Options

Option

[1]&[2]

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]

Reporting (Dialer)

[4]

Dialing Method

[5]

Pulse Ratio

[6]

If armed, activate bell output on Com. Failure

[7]

Future Use

[8]

Future Use

OFF

1 see table

1 see table

ON

1 see table

1 see table

1 Disabled

1 Enabled

1 Pulse Dialing

1 Tone (DTMF) Dialing

1 1:2

1 1:1.5

1 Disabled

1 Enabled

1 N/A

1 N/A

1 N/A

1 N/A

\* Not to be used with UL installations.

**Bold = Default Setting**

## SECTION [136]: Dialer Options

Option		OFF	ON																
[1]	Call Back WinLoad	1 Disabled	1 Enabled																
[2]	Automatic Event Buffer Transmission	1 Disabled	1 Enabled																
[3]	Contact I.D. Report Codes	1 Programmable	1 All Codes (automatic)																
[4]	Alternate Dial	1 Disabled	1 Enabled																
[5]	If no dial tone is present	1 Continue after 4 sec.	1 Hang-up after 16 sec.																
[6]&[7]	<table border="1"><thead><tr><th colspan="2">Pager Reporting Format Dialer Options</th></tr><tr><th>[6]</th><th>[7]</th></tr></thead><tbody><tr><td>OFF</td><td>OFF</td><td>1 call to pager or cellular telephone (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	1 call to pager or cellular telephone (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	1 see table 1 see table	1 see table 1 see table
Pager Reporting Format Dialer Options																			
[6]	[7]																		
OFF	OFF	1 call to pager or cellular telephone (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]	Pager Format Transmits (V2.4 & higher)	1 After Pager Delay in section [083]	1 Immediately (Personal Dialing)																

## SECTION [137]: Event Call Direction

Option		OFF	ON
[1]	<i>Call Telephone #1 for Arming/Disarming Report Codes</i>	1 Disabled	1 <b>Enabled</b>
[2]	<i>Call Telephone #2 for Arming/Disarming Report Codes</i>	1 <b>Disabled</b>	1 Enabled
[3]	<i>Call Telephone #1 for Alarm/Restore Report Codes</i>	1 Disabled	1 <b>Enabled</b>
[4]	<i>Call Telephone #2 for Alarm/Restore Report Codes</i>	1 <b>Disabled</b>	1 Enabled
[5]	<i>Call Telephone #1 for Tamper/Restore Report Codes</i>	1 Disabled	1 <b>Enabled</b>
[6]	<i>Call Telephone #2 for Tamper/Restore Report Codes</i>	1 <b>Disabled</b>	1 Enabled
[7]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A
[8]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A

## SECTION [138]: Event Call Direction

Option		OFF	ON
[1]	<i>Call Telephone #1 for Trouble/Restore Report Codes</i>	1 Disabled	1 <b>Enabled</b>
[2]	<i>Call Telephone #2 for Trouble/Restore Report Codes</i>	1 <b>Disabled</b>	1 Enabled
[3]	<i>Call Telephone #1 for Special Report Codes</i>	1 Disabled	1 <b>Enabled</b>
[4]	<i>Call Telephone #2 for Special Report Codes</i>	1 <b>Disabled</b>	1 Enabled
[5]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A
[6]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A
[7]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A
[8]	<i>Future Use</i>	1 <b>N/A</b>	1 N/A



## 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 29). 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 30).

## 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

[187]\_\_\_/\_\_\_ Zone 01  
\_\_\_/\_\_\_ Zone 02  
\_\_\_/\_\_\_ Zone 03  
\_\_\_/\_\_\_ Zone 04

[188]\_\_\_/\_\_\_ Zone 05  
\_\_\_/\_\_\_ Zone 06  
\_\_\_/\_\_\_ Zone 07  
\_\_\_/\_\_\_ Zone 08

[189]\_\_\_/\_\_\_ Zone 09  
\_\_\_/\_\_\_ Zone 10  
\_\_\_/\_\_\_ Zone 11  
\_\_\_/\_\_\_ Zone 12

[190]\_\_\_/\_\_\_ Zone 13  
\_\_\_/\_\_\_ Zone 14  
\_\_\_/\_\_\_ Zone 15  
\_\_\_/\_\_\_ Zone 16

### RESTORE

[191]\_\_\_/\_\_\_ Zone 01  
\_\_\_/\_\_\_ Zone 02  
\_\_\_/\_\_\_ Zone 03  
\_\_\_/\_\_\_ Zone 04

[192]\_\_\_/\_\_\_ Zone 05  
\_\_\_/\_\_\_ Zone 06  
\_\_\_/\_\_\_ Zone 07  
\_\_\_/\_\_\_ Zone 08

[193]\_\_\_/\_\_\_ Zone 09  
\_\_\_/\_\_\_ Zone 10  
\_\_\_/\_\_\_ Zone 11  
\_\_\_/\_\_\_ Zone 12

[194]\_\_\_/\_\_\_ Zone 13  
\_\_\_/\_\_\_ Zone 14  
\_\_\_/\_\_\_ Zone 15  
\_\_\_/\_\_\_ Zone 16

### SPECIAL

[195]\_\_\_/\_\_\_ Emergency Panic  
\_\_\_/\_\_\_ Auxiliary Panic  
\_\_\_/\_\_\_ Fire Panic  
\_\_\_/\_\_\_ Recent Closing

[196]\_\_\_/\_\_\_ Zone Shutdown  
\_\_\_/\_\_\_ Duress  
\_\_\_/\_\_\_ Keypad Lockout  
\_\_\_/\_\_\_ N/A

## Tamper Report Codes

### TROUBLE

[197]\_\_\_/\_\_\_ Zone 01  
\_\_\_/\_\_\_ Zone 02  
\_\_\_/\_\_\_ Zone 03  
\_\_\_/\_\_\_ Zone 04

[198]\_\_\_/\_\_\_ Zone 05  
\_\_\_/\_\_\_ Zone 06  
\_\_\_/\_\_\_ Zone 07  
\_\_\_/\_\_\_ Zone 08

[199]\_\_\_/\_\_\_ Zone 09  
\_\_\_/\_\_\_ Zone 10  
\_\_\_/\_\_\_ Zone 11  
\_\_\_/\_\_\_ Zone 12

[200]\_\_\_/\_\_\_ Zone 13  
\_\_\_/\_\_\_ Zone 14  
\_\_\_/\_\_\_ Zone 15  
\_\_\_/\_\_\_ Zone 16

### RESTORE

[201]\_\_\_/\_\_\_ Zone 01  
\_\_\_/\_\_\_ Zone 02  
\_\_\_/\_\_\_ Zone 03  
\_\_\_/\_\_\_ Zone 04

[202]\_\_\_/\_\_\_ Zone 05  
\_\_\_/\_\_\_ Zone 06  
\_\_\_/\_\_\_ Zone 07  
\_\_\_/\_\_\_ Zone 08

[203]\_\_\_/\_\_\_ Zone 09  
\_\_\_/\_\_\_ Zone 10  
\_\_\_/\_\_\_ Zone 11  
\_\_\_/\_\_\_ Zone 12

[204]\_\_\_/\_\_\_ Zone 13  
\_\_\_/\_\_\_ Zone 14  
\_\_\_/\_\_\_ Zone 15  
\_\_\_/\_\_\_ Zone 16

## System Trouble Report Codes

### SYSTEM TROUBLE

[205]\_\_\_/\_\_\_ N/A  
\_\_\_/\_\_\_ AC Failure  
\_\_\_/\_\_\_ Battery Failure  
\_\_\_/\_\_\_ Auxiliary Supply

[206]\_\_\_/\_\_\_ Bell Output Overload  
\_\_\_/\_\_\_ Bell Output Disconnect  
\_\_\_/\_\_\_ Timer Loss  
\_\_\_/\_\_\_ Fire Loop Trouble

[207]\_\_\_/\_\_\_ Wireless Low Battery  
\_\_\_/\_\_\_ Module Fault  
\_\_\_/\_\_\_ Printer Fault  
\_\_\_/\_\_\_ Fail to Communicate

### RESTORE

[208]\_\_\_/\_\_\_ TLM  
\_\_\_/\_\_\_ AC Failure  
\_\_\_/\_\_\_ Battery Failure  
\_\_\_/\_\_\_ Auxiliary Supply

[209]\_\_\_/\_\_\_ Bell Output Overload  
\_\_\_/\_\_\_ Bell Output Disconnect  
\_\_\_/\_\_\_ Timer Loss  
\_\_\_/\_\_\_ Fire Loop Trouble

[210]\_\_\_/\_\_\_ Wireless Low Battery  
\_\_\_/\_\_\_ Module Fault  
\_\_\_/\_\_\_ Printer Fault  
\_\_\_/\_\_\_ Fail to Communicate

### SPECIAL

[211]\_\_\_/\_\_\_ Cold Start (Shutdown)  
\_\_\_/\_\_\_ Test Report  
\_\_\_/\_\_\_ N/A  
\_\_\_/\_\_\_ PC Exit

[212]\_\_\_/\_\_\_ Installer In  
\_\_\_/\_\_\_ Installer Out  
\_\_\_/\_\_\_ N/A  
\_\_\_/\_\_\_ N/A

[213]\_\_\_/\_\_\_ TX Supervision Loss  
\_\_\_/\_\_\_ TX Supervision Restore  
\_\_\_/\_\_\_ N/A  
\_\_\_/\_\_\_ 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 disarms 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.

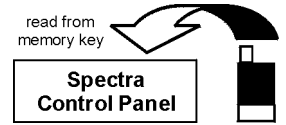
## Paradox Memory Key (PMC-3)

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

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

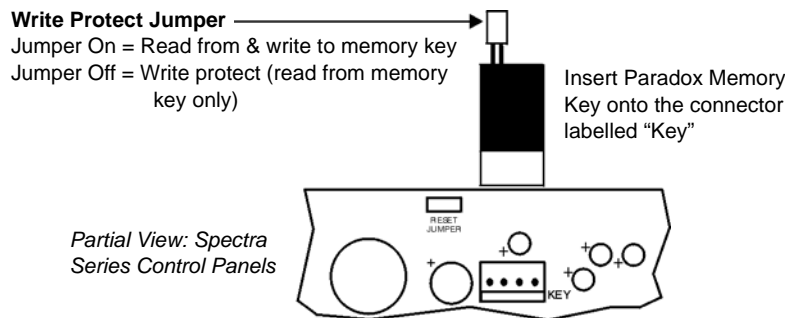
### Download to DESTINATION Control Panel

1. 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.
2. Re-apply AC and battery power.
3. Enter installer programming mode, enter section **[900]**, then press **[ENTER]** to acknowledge.
4. When the keypad emits a confirmation beep, remove the Memory Key.
5. 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.




## Programming a Wireless Fire Zone

With Spectra systems, fire zones cannot be assigned to expansion zones. As a result, when installing a wireless smoke detector to be used with a Spectra system, the corresponding zone must be programmed as follows:

1. The zone must be defined as a 24Hr Burglary zone.
2. The zone's alarm type must be set to Audible Alarm (pulsed).
3. The zone's Auto-Zone Shutdown (zone option **[1]**) and Bypass (zone option **[2]**) features must be disabled.
4. Change the zone's report code from a burglary report code to a fire report code. If using Ademco Contact I.D., change the Contact ID Options from All Codes to Programmable (section **[136]** option **[3]** = OFF) and then enter the report code manually.

## 4-PGM Expansion Module

Due to the APR3-PGM4's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), Digiplex 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	1 <b>Seconds</b>	1 Minutes
[2]	PGM2 Time Base Selection	1 <b>Seconds</b>	1 Minutes
[3]	PGM3 Time Base Selection	1 <b>Seconds</b>	1 Minutes
[4]	PGM4 Time Base Selection	1 <b>Seconds</b>	1 Minutes
[5]	Future Use	1 <b>N/A</b>	1 N/A
[6]	Future Use	1 <b>N/A</b>	1 N/A
[7]	Future Use	1 <b>N/A</b>	1 N/A
[8]	Future Use	1 <b>N/A</b>	1 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 7.


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	___/___	___/___	___/___

*UL Note: The 4-PGM Expansion Module is not UL listed.*

# Printer Module

Due to the APR3-PRT1's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), Digiplex 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>	1 <b>Disabled</b>	1 Enabled
[2] <i>Assigned to Partition 2</i>	1 <b>Disabled</b>	1 Enabled
[3] <i>PGM Normal State</i>	1 <b>Normally Open (N.O.)</b>	1 Normally Closed (N.C.)
[4] <i>Print Arming and Disarming Events</i>	1 <b>Disabled</b>	1 Automatically
[5] <i>Print Alarm and Alarm Restore Events</i>	1 <b>Disabled</b>	1 Automatically
[6] <i>Print Tamper and Tamper Restore Events</i>	1 <b>Disabled</b>	1 Automatically
[7] <i>Print Trouble and Trouble Restore Events</i>	1 <b>Disabled</b>	1 Automatically
[8] <i>Print Special Events</i>	1 <b>Disabled</b>	1 Automatically

## SECTION [551]: Automatic Zone Status Printing

Option	OFF	ON
[1] <i>Print Status of Zone 1</i>	1 <b>Disabled</b>	1 Automatically
[2] <i>Print Status of Zone 2</i>	1 <b>Disabled</b>	1 Automatically
[3] <i>Print Status of Zone 3</i>	1 <b>Disabled</b>	1 Automatically
[4] <i>Print Status of Zone 4</i>	1 <b>Disabled</b>	1 Automatically
[5] <i>Print Status of Zone 5</i>	1 <b>Disabled</b>	1 Automatically
[6] <i>Print Status of Zone 6</i>	1 <b>Disabled</b>	1 Automatically
[7] <i>Print Status of Zone 7</i>	1 <b>Disabled</b>	1 Automatically
[8] <i>Print Status of Zone 8</i>	1 <b>Disabled</b>	1 Automatically

## SECTION [552]: Automatic Zone status Printing

Option	OFF	ON
[1] <i>Print Status of Zone 9</i>	1 <b>Disabled</b>	1 Automatically
[2] <i>Print Status of Zone 10</i>	1 <b>Disabled</b>	1 Automatically
[3] <i>Print Status of Zone 11</i>	1 <b>Disabled</b>	1 Automatically
[4] <i>Print Status of Zone 12</i>	1 <b>Disabled</b>	1 Automatically
[5] <i>Print Status of Zone 13</i>	1 <b>Disabled</b>	1 Automatically
[6] <i>Print Status of Zone 14</i>	1 <b>Disabled</b>	1 Automatically
[7] <i>Print Status of Zone 15</i>	1 <b>Disabled</b>	1 Automatically
[8] <i>Print Status of Zone 16</i>	1 <b>Disabled</b>	1 Automatically

**Bold** = Default Setting

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

Option		OFF	ON																								
[1]	<i>Serial Port</i>	1 <b>Disabled</b>	1 Enabled																								
[2]&[3]	<table border="1"> <thead> <tr> <th colspan="4">Baud Rate Settings</th></tr> <tr> <th>[2]</th><th>[3]</th><th>APR-PRT1</th><th>APR3-PRT1</th></tr> </thead> <tbody> <tr> <td>OFF</td><td>OFF</td><td><b>1200 baud</b> (default)</td><td><b>2400 baud</b> (default)</td></tr> <tr> <td>ON</td><td>OFF</td><td>2400 baud</td><td>9600 baud</td></tr> <tr> <td>OFF</td><td>ON</td><td>9600 baud</td><td>19200 baud</td></tr> <tr> <td>ON</td><td>ON</td><td>19200 baud</td><td>57600 baud</td></tr> </tbody> </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	1 see table 1 see table	1 see table 1 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]	<i>Parallel Port</i>	1 <b>Disabled</b>	1 Enabled																								
[5]	<i>Off-line Status Ignored (parallel port only)</i>	1 <b>Disabled</b>	1 Enabled																								
[6]	<i>Paper Empty Status Ignored (parallel port only)</i>	1 <b>Disabled</b>	1 Enabled																								
[7]	<i>Printer Fault Status Ignored (parallel port only)</i>	1 <b>Disabled</b>	1 Enabled																								
[8]	<i>Printer Busy Status Ignored (parallel port only)</i>	1 <b>Disabled</b>	1 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 7

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

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

### Clock Programming

For example, to enter the date March 26, 2000 you would enter 20 (century), 00 (year), 03 (month), and 26 (day).


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



## Voice-assisted Arm/Disarm Module

Due to InTouch's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher), Digiplex DGP-848 or DGP-NE96 control panel. 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>	1 <b>6-digits</b>	1 4-digits
<b>[2]</b> <i>Partitioned System</i>	1 <b>Disabled</b>	1 Enabled
<b>[3]</b> <i>PGM Output</i>	1 <b>Disabled</b>	1 Enabled
<b>[4]</b> <i>PGM Time in</i>	1 <b>Seconds</b>	1 Minutes
<b>[5]</b> <i>Future Use</i>	1 N/A	1 N/A
<b>[6]</b> <i>Future Use</i>	1 N/A	1 N/A
<b>[7]</b> <i>Future Use</i>	1 N/A	1 N/A
<b>[8]</b> <i>Future Use</i>	1 N/A	1 N/A

# Wireless Module

Only one MG-RCV3 (Magellan) can be connected to each Spectra control panel.



**Do not cut, bend or alter MG-RCV3's antenna and ensure that electrical wires do not cross over the antenna, 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 for 1728" and "Zone Recognition Table for 1738" on page 4.

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
[1]	Wireless Transmitter Check-in Supervision*	1 <b>Disabled</b>	1 Enabled
[2]	Check-in Supervision Base Time Interval (must be same as the transmitter's jumper setting)	1 <b>24 Hours</b>	1 80 Minutes
[3] - [5]	Future Use	1 <b>N/A</b>	1 N/A
[6]	PGM3 Deactivation	1 <b>2 second Timer</b>	1 Manually
[7]	PGM4 Deactivation	1 <b>2 second Timer</b>	1 Manually
[8]	Ignore Wireless Tamper Signal	1 <b>Ignores tamper signal</b>	1 Reports tamper signal

\* **Section [610] option [1] Wireless Transmitter Check-in Supervision must be enabled (ON) for UL installations.**

Section #	Decimal Value (000-255)	Description	Default Value
[615]	___/___/___ (001-008 = expansion inputs 1-8)	ON-BOARD TAMPER ZONE ASSIGN.	000

## PGM Activation/Deactivation

PGM1 is always enabled and is activated through the Magellan Remote Control (MG-REM1). Remote control button  controls PGM1. A second 5A PGM relay output (PGM2) is available as an option. Remote control button  controls PGM2 (optional). Press the appropriate button to activate the PGM that it controls. Section [610] options [6] and [7] determine how the respective PGM will deactivate. If the option is OFF, the activated PGM will automatically deactivate after 2 seconds. If the option is ON, each activated PGM can be deactivated only by pressing the appropriate button on an Magellan Remote Control that controls a PGM. For a diagram of the Magellan Remote Control, refer to "Button Options" on page 24.

## Serial Number Display

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

## Signal Strength Display

Section #	Description
	After entering the desired section, activate the Magellan transmitter by opening/closing the zone or by pressing the tamper switch. Always ignore the first reading as it won't be accurate. An average reading of 3 and up is acceptable.
	<b>LED Keypads:</b> The keypad will illuminate numbers 1 to 8.
	<b>LCD Keypads:</b> The keypad will display from 1 to 8 characters on the screen.

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

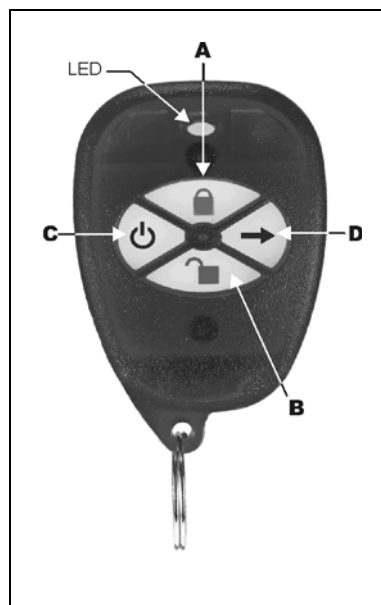
## Remote Control User Assignment

Section #	Decimal Value	Description	Default Value
<b>[701]</b>	___/___/___ (001-048 = user #)	remote control #1 - section [721]/[731]*	000
<b>[702]</b>	___/___/___ (001-048 = user #)	remote control #2 - section [722]/[732]*	000
<b>[703]</b>	___/___/___ (001-048 = user #)	remote control #3 - section [723]/[733]*	000
<b>[704]</b>	___/___/___ (001-048 = user #)	remote control #4 - section [724]/[734]*	000
<b>[705]</b>	___/___/___ (001-048 = user #)	remote control #5 - section [725]/[735]*	000
<b>[706]</b>	___/___/___ (001-048 = user #)	remote control #6 - section [726]/[736]*	000
<b>[707]</b>	___/___/___ (001-048 = user #)	remote control #7 - section [727]/[737]*	000
<b>[708]</b>	___/___/___ (001-048 = user #)	remote control #8 - section [728]/[738]*	000

\* refer to "Remote Control Assignment" on page 25 and the *MG-RCV3 Reference & Installation Manual*.

## Button Options

*NOTE: When using the Magellan remote control (MG-REM1), regardless of what is programmed for the button, pressing button C will activate PGM1 while pressing button D will activate PGM2.*



### 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)

**\* Only arming and disarming button functions were investigated by UL.**



## Remote Control Button Programming

RC#	Section	RC Buttons											
		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]	/	/	/	/	/	/	/	/	/	/	/	/



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 Assignment

If you have a Spectra control panel that is V2.0 or higher, you can use the Automatic Learning Method to assign your remote control(s). If you have a Spectra control panel that is V1.23 or lower, see the *MG-RCV3 Reference & Installation Manual* for how to program your remote control(s).


### Automatic Learning Method

Enter the appropriate section and press any button on a Magellan remote control (MG-REM1) once, or until the confirmation beep sounds ("Beep-Beep-Beep-Beep-Beep"), 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 appropriate section and then press the **[FORCE]** button.

Section #	Remote Control
[731]	REMOTE CONTROL #1
[732]	REMOTE CONTROL #2
[733]	REMOTE CONTROL #3
[734]	REMOTE CONTROL #4
[735]	REMOTE CONTROL #5
[736]	REMOTE CONTROL #6
[737]	REMOTE CONTROL #7
[738]	REMOTE CONTROL #8

# Zone Expansion Modules

Only one SPC/APR3-ZX4 or one SPC/APR3-ZX8 can be connected to each Spectra control panel. The following sections are for SPC-ZX4 version 1.0, APR3-ZX4 version 1.0, SPC-ZX8 version 1.0 and APR3-ZX8 version 2.0.

 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 [650]: Options

Option		OFF	ON
[1]	EOL (end-of-line) Resistors for hardwire modules	1 <b>No EOL</b>	1 Use EOL Resistors
[2]	Zone Expansion Module Tamper Recognition	1 <b>Disabled</b>	1 Z1 becomes tamper input
[3]	PGM1 on SPC/APR3-ZX8 follows Global PGM programmed in sections [124] & [125]	1 <b>Disabled</b>	1 Enabled
[4]-[8]	Future Use	1 <b>N/A</b>	1 N/A

## SECTION [651]: Zone Assignment

Option	See "Zone Recognition Table for 1728" on page 4.	OFF	ON
[1]	Input Z1 =Expansion Input 1	1 <b>Disabled</b>	1 Enabled
[2]	Input Z2 =Expansion Input 2	1 <b>Disabled</b>	1 Enabled
[3]	Input Z3 =Expansion Input 3	1 <b>Disabled</b>	1 Enabled
[4]	Input Z4 =Expansion Input 4	1 <b>Disabled</b>	1 Enabled
[5]	Input Z5 (SPC/APR3-ZX8 only) =Expansion Input 5	1 <b>Disabled</b>	1 Enabled
[6]	Input Z6 (SPC/APR3-ZX8 only) =Expansion Input 6	1 <b>Disabled</b>	1 Enabled
[7]	Input Z7 (SPC/APR3-ZX8 only) =Expansion Input 7	1 <b>Disabled</b>	1 Enabled
[8]	Input Z8 (SPC/APR3-ZX8 only) =Expansion Input 8	1 <b>Disabled</b>	1 Enabled

## PGM Programming (SPC-ZX8 and APR3-ZX8 Only)

The PGM will only activate or deactivate 100mS after the selected event occurs. The PGM Deactivation event can be used as another activation event if the PGM Timer (section [655]) is programmed with a value other than 000. The system will ignore the PGM if it has been programmed to follow the Global PGM (option [3] in section [650]). Only PGM events from the table below can be used.

Section #	Decimal Value (000-255)	Description	Default Value
[655] ___/___/___	seconds (000 = follow deactivation event)	PGM1 TIMER	5 sec.

Section #	Event Group #	Sub-Group #	Partition #
[656] PGM1 Activation Event	___/___	___/___	___/___
[657] PGM1 Deactivation Event	___/___	___/___	___/___

Event Group #	Sub-Group #	Partition #
<b>For SPC-ZX8:</b> <b>60 = Hardwire Zone Opened</b> <b>61 = Hardwire Zone Closed</b> <b>62 = Hardwire Tamper Opened</b> <b>63 = Hardwire Tamper Closed</b>	01 = Expansion Input 1 - Section [651] - [1] 02 = Expansion Input 2 - Section [651] - [2] 03 = Expansion Input 3 - Section [651] - [3] 04 = Expansion Input 4 - Section [651] - [4] 05 = Expansion Input 5 - Section [651] - [5] 06 = Expansion Input 6 - Section [651] - [6] 07 = Expansion Input 7 - Section [651] - [7] 08 = Expansion Input 8 - Section [651] - [8] 99 = Any zone expansion module input	Not used; enter 00
<b>For APR3-ZX8:</b> <b>60 = Hardwire Zone/Hardwire Tamper Opened</b> <b>61 = Hardwire Zone/Hardwire Tamper Closed</b>		

UL Note: The Zone Expansion Modules are not UL listed.

# 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.

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

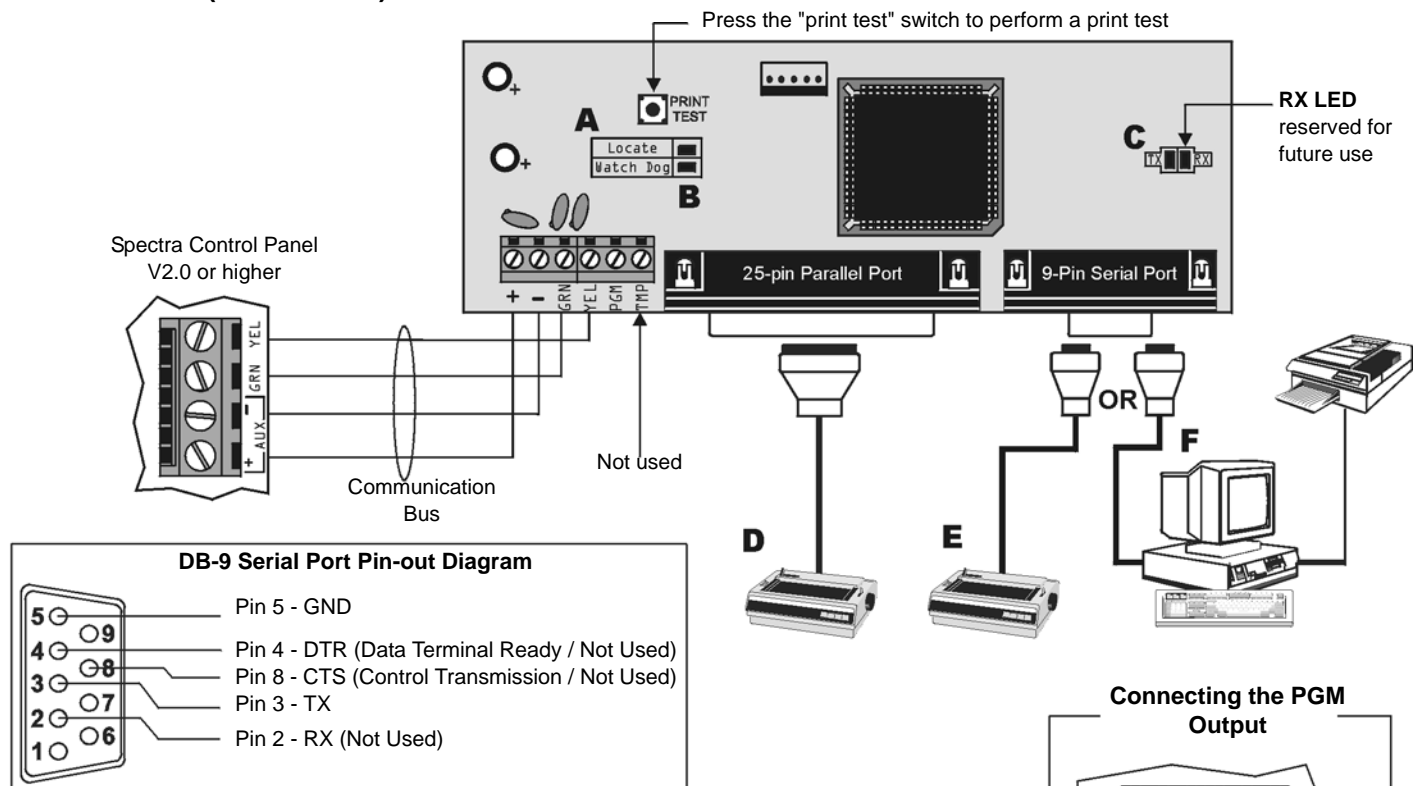
## Appendix B - Ademco CID Report Code List (All Codes)

System Event	Default Contact ID Report Code when option [3] is on in section [136]
Arming with Master Code (##)	3 4A1 - Close by user
Arming with User Code (##)	3 4A1 - Close by user
Arming with Keypad (##)	3 4A9 - Keypad Close
Auto Arming	3 4A3 - Automatic Close
Arm with PC software	3 4A7 - Remote arm/disarm
Late To Close	3 4A4 - Late to Close
No Movement	3 4A4 - Late to Close
Partial arming	1 574 - Group bypass
Quick arming	3 408 - Quick arm
Delinquency	1 654 - Inactivity
Disarm with Master Code (##)	1 4A1 - Open by user
Disarm with User Code (##)	1 4A1 - Open by user
Disarm with Keypad (##)	1 4A9 - Keypad Open
Disarm after alarm with Master Code (##)	1 4A1 - Open by user
Disarm after alarm with User Code (##)	1 4A1 - Open by user
Disarm after alarm with Keypad (##)	1 4A9 - Keypad Open
Auto Arming Cancellation	1 4A5 - Deferred Open/Close
Disarm with PC software	1 4A7 - Remote arm/disarm
Disarm after an alarm with PC software	1 4A7 - Remote arm/disarm
Zone Bypassed (##)	1 57A - Zone bypass
Zone alarm (##)	1 13A - Burglary Alarm
Fire alarm (##)	1 11A - Fire alarm
Zone alarm restore (##)	3 13A - Burglary Alarm Restore
Fire alarm restore (##)	3 11A - Fire alarm Restore
Panic 1 - Emergency	1 12A - Panic alarm
Panic 2 - Medical	1 1AA - Medical alarm
Panic 3 - Fire	1 115 - Pull Station
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
Auxiliary supply trouble	1 3AA - System trouble

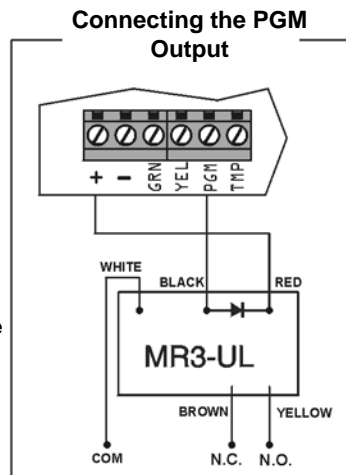
System Event	Default Contact ID Report Code when option [3] is on in section [136]
Bell output current limit	1 321 - Bell 1
Bell absent	1 321 - Bell 1
Clock lost	1 626 - Time/Date inaccurate
Fire loop trouble	1 373 - Fire trouble
Wireless Transmitter Low Battery	1 384 - RF xmtr. low battery
Wireless Transmitter Supervision Loss	1 381 - Loss of super. - RF
Module fault	1 333 - Expansion module failure
Printer fault	1 336 - Local printer failure
Fail to communicate with monitoring station	1 354 - Fail to communicate
TLM trouble restore	3 351 - Telco 1 fault restore
AC Failure restore	3 3A1 - AC loss restore
Battery Failure restore	3 3A9 - Battery test restore
Auxiliary supply trouble restore	3 3AA - System trouble restore
Bell output current limit restore	3 321 - Bell 1 restore
Bell absent restore	3 321 - Bell 1 restore
Clock programmed	3 626 - Time/Date Reset
Fire loop trouble restore	3 373 - Fire trouble restore
Wireless Transmitter Low Battery	3 384 - RF xmtr. low battery
Wireless Transmitter Supervision Loss	3 381 - Loss of super. - RF
Module fault restore	3 333 - Expansion module failure restore
Printer fault restore	3 336 - Local printer failure restore
Fail to communicate with monitoring station	3 354 - Fail to communicate restore
Cold Start	1 3A8 - System shutdown
Test Report engaged	1 6A2 - Periodic test report
PC software communication finished	1 412 - Successful - download access
Installer on site	1 627 - Program mode Entry
Installer programming finished	1 628 - Program mode Exit

# Module Connections

## Printer Module (APR3-PRT1)



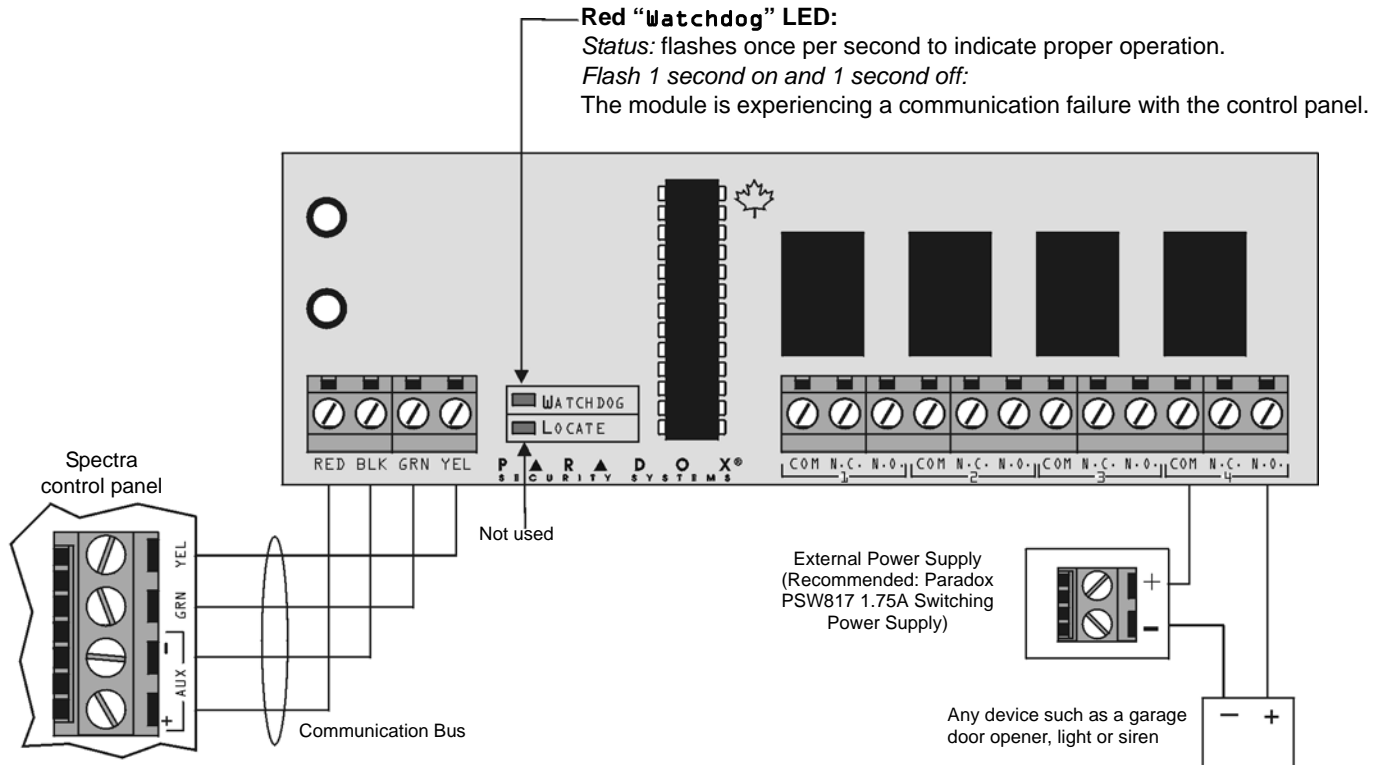
- A Green "Locate" LED:** Remains illuminated during power up
- B Red "Watchdog" LED:** Flashes to indicate proper operation. If there is a communication failure, the red LED will flash ON for one second and OFF for one second.
- C Red "TX" LED:** Flashes when the Printer Module is transmitting data through the serial port only.
- D 25-Pin Parallel Port:** Connect the Printer Module's 25-pin parallel port to any dot matrix printer. **Note: The dot matrix printer must support a minimum of 80 columns.**
- E 9-Pin Serial Port:** Connect the Printer Module's 9-Pin serial port to a dot matrix printer. **Note: The dot matrix printer must support a minimum of 80 columns.**
- F 9-Pin Serial Port:** Connect the Printer Module's 9-pin serial port to a computer's COM port to view the control panel's events on the computer's monitor. The events displayed on the monitor can then be printed through the printer connected to the computer.



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

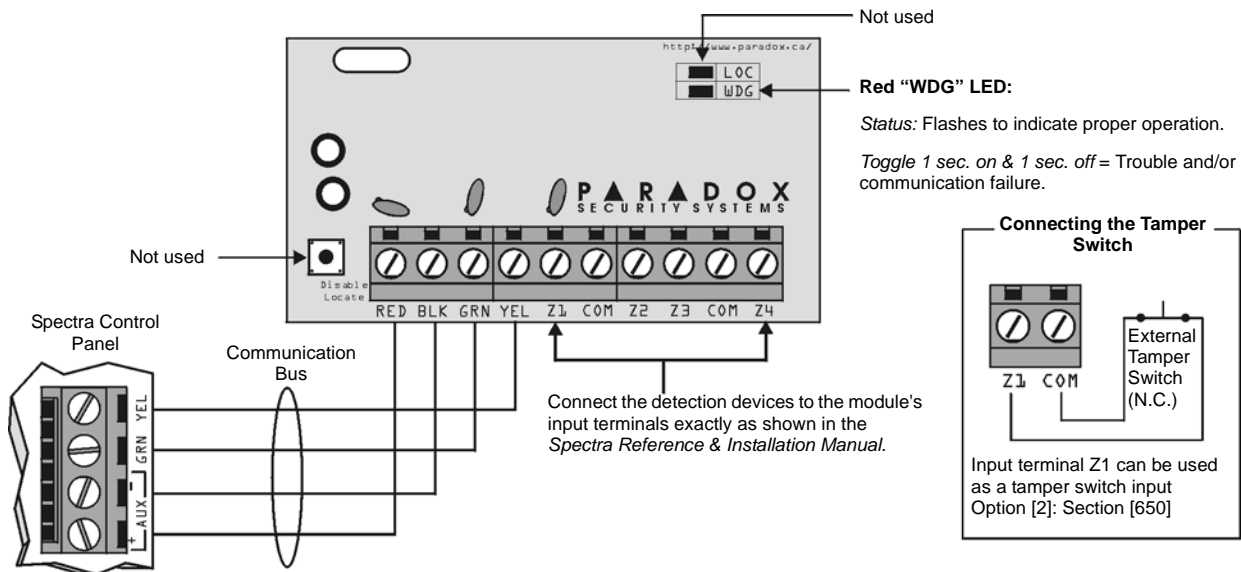


## 4-PGM Expansion Module (APR3-PGM4)



**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 (250 ft) from the control panel. Only one APR3-PGM4 can be connected per Spectra control panel.**

## 4-Zone Expansion Module (SPC-ZX4 and APR3-ZX4)



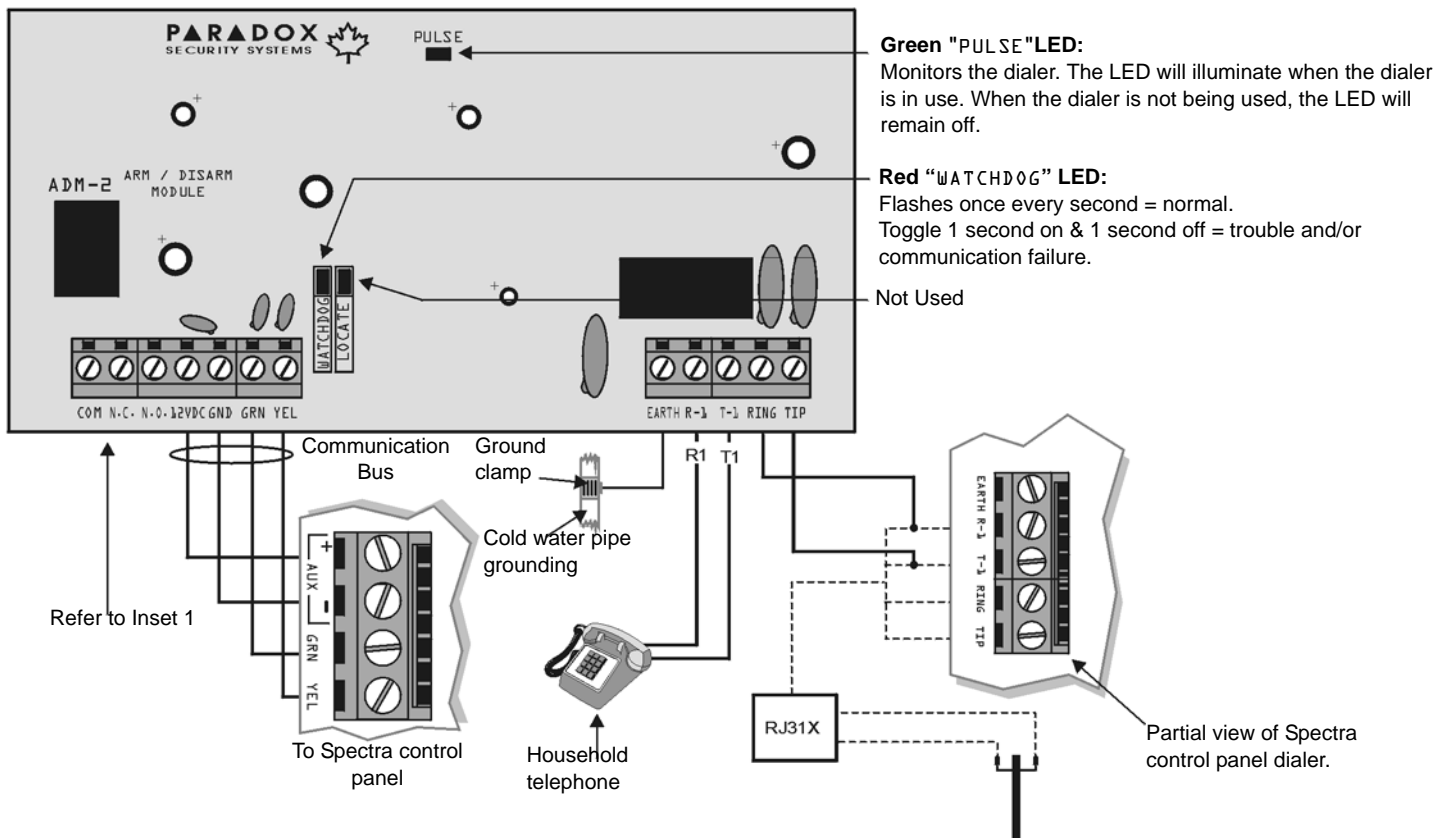
**Remove AC and battery power from the control panel before connecting the module to the communication bus. Do not connect the APR3-ZX4 or SPC-ZX4 more than 76m (250 ft) from the control panel. Only one APR3-ZX4 or one SPC-ZX4 can be connected per Spectra control panel.**



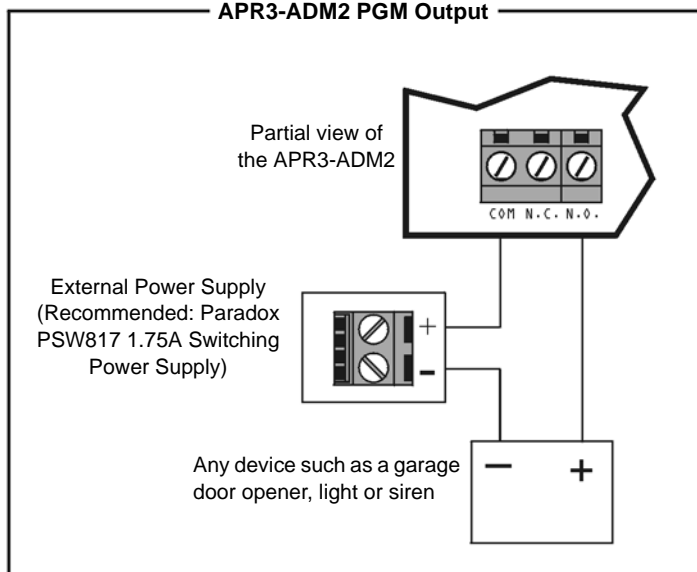
## Voice-Assisted Arm/Disarm Module (APR3-ADM2)



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 (250 ft) from the control panel. Only one APR3-ADM2 can be connected per Spectra control panel.

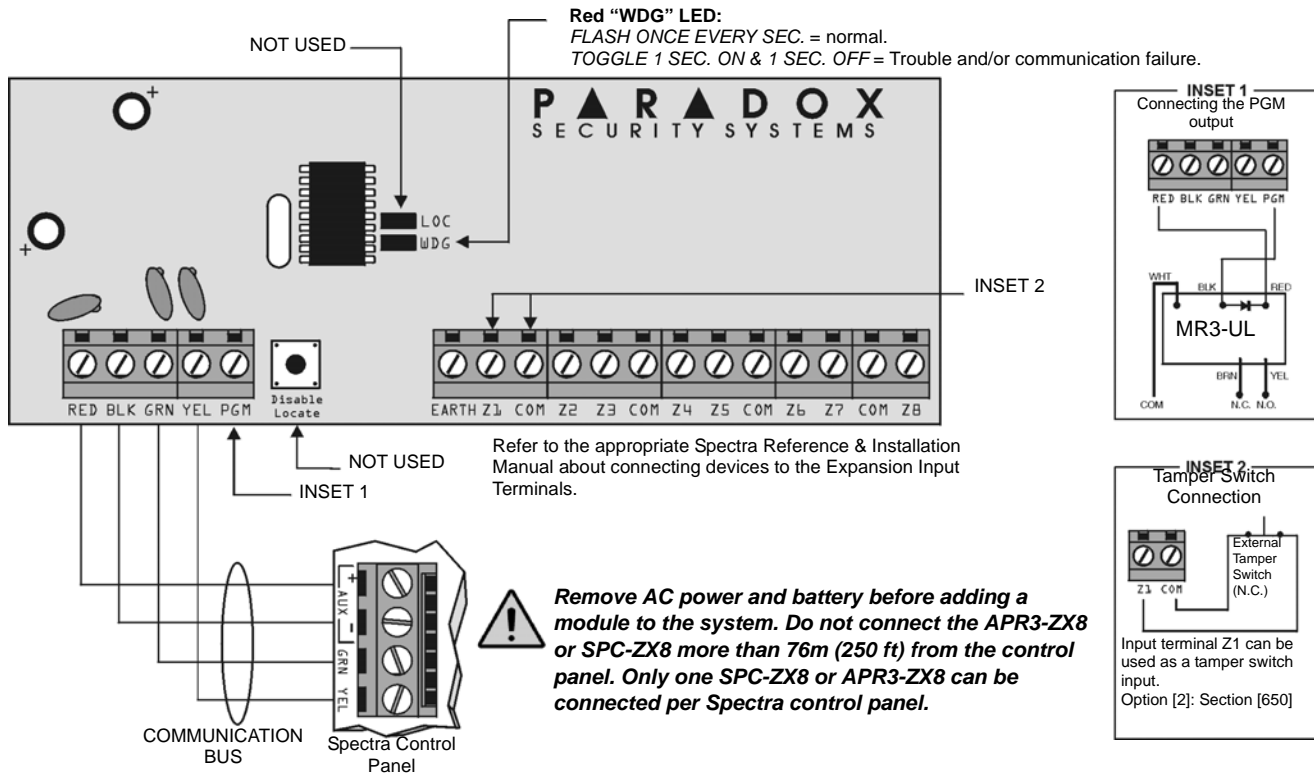


**Inset 1: Connecting the APR3-ADM2 PGM Output**

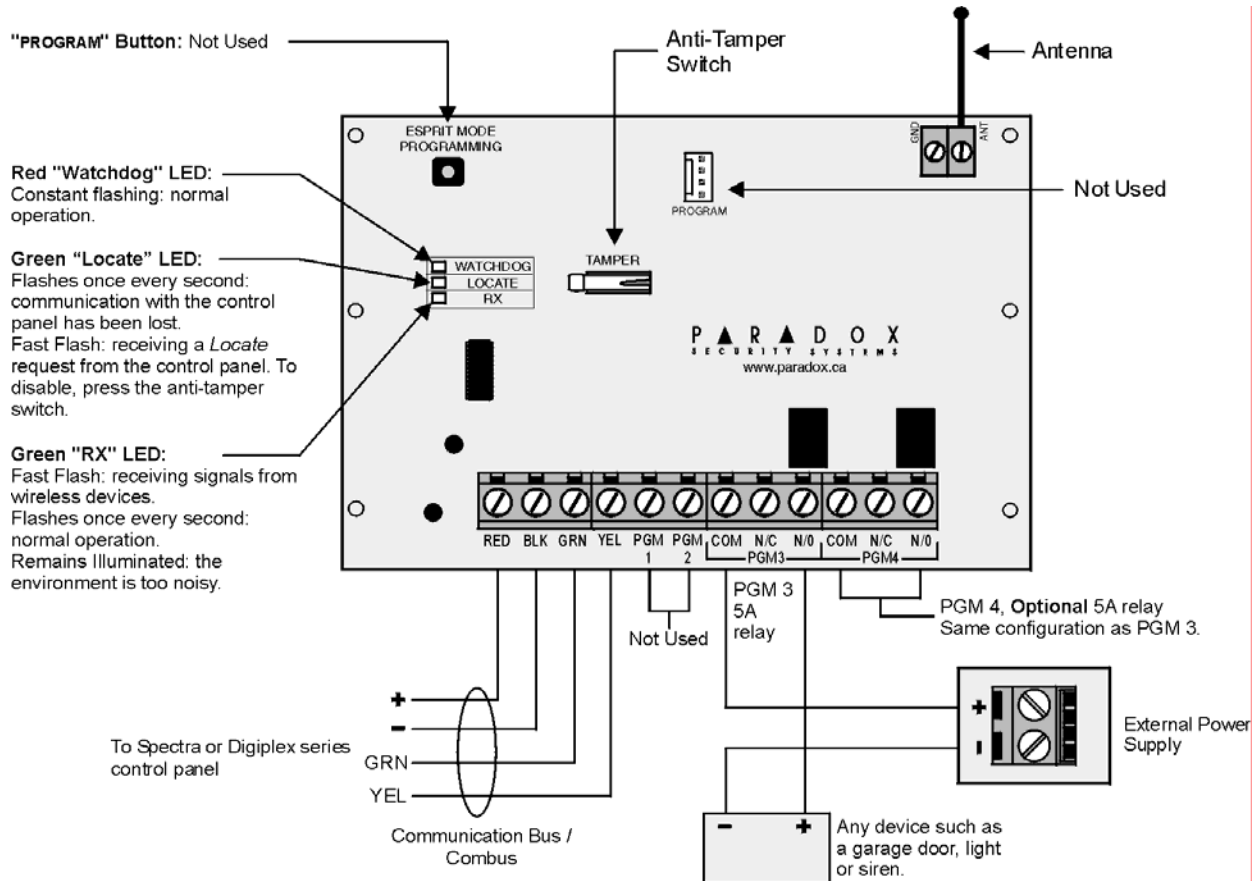


To reset the standalone code of the APR3-ADM2 you have to perform a hardware reset of the Spectra control panel.

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



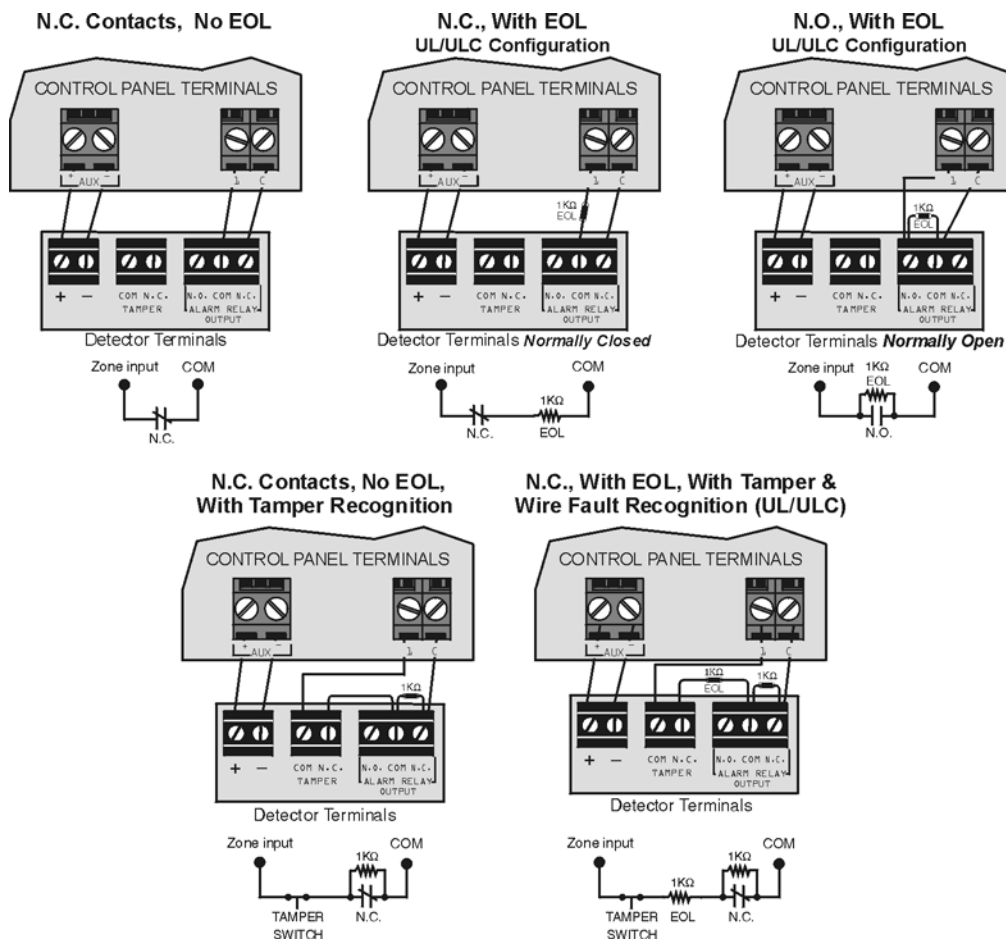
## Magellan Wireless Expansion Module (MG-RCV3)



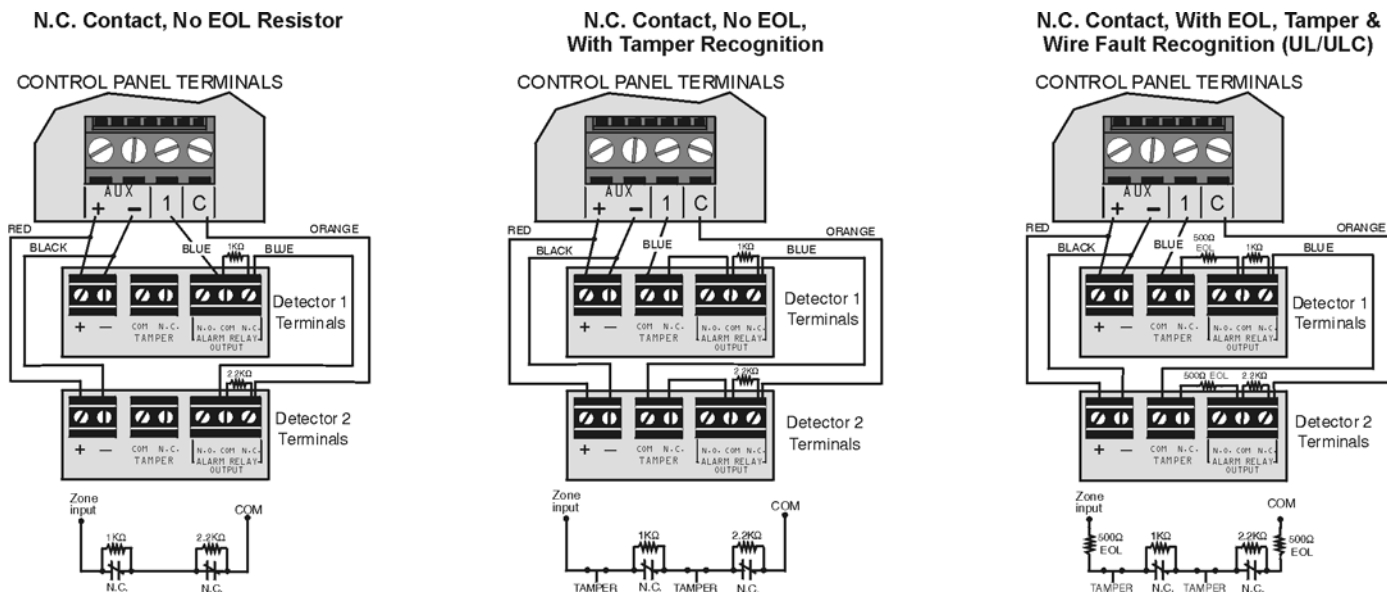
**Remove the AC power and battery from the control panel before adding a module to the system.**

# Hardware Connections

## Single Zone Inputs



## Double Zone Inputs (with ATZ option only)



## 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 7.



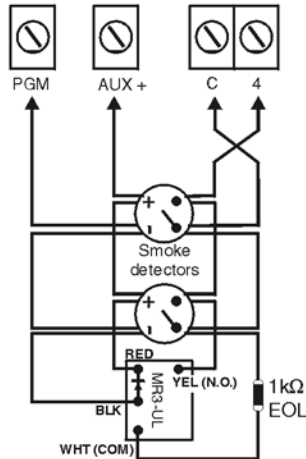
**All 4-wire smoke detectors must be connected using the daisy chain configuration**



**Each Spectra 1738 control panel supports a maximum of five 2-wire smoke detectors**

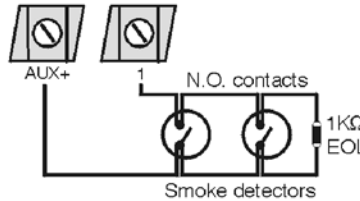
### Fire Circuits

#### 4-WIRE INSTALLATION CONTROL PANEL TERMINALS



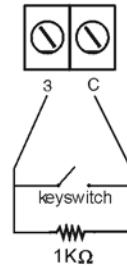
(1738 only)

#### 2-WIRE INSTALLATION CONTROL PANEL TERMINALS

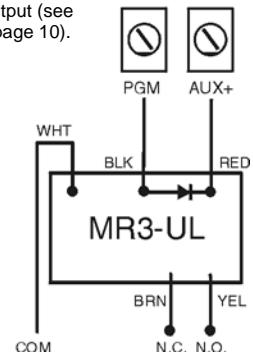


PGM2 can be used as a strobe output (see section [129] options [1] to [3] on page 10).

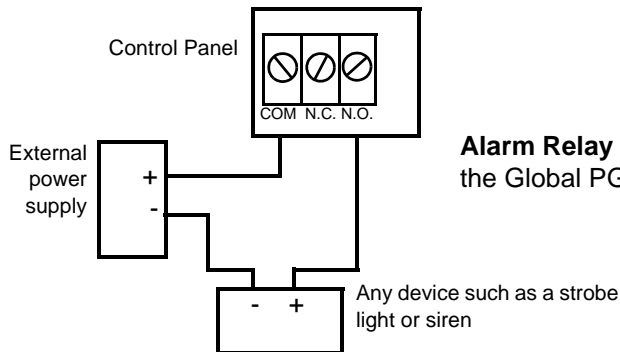
### Keyswitch



### PGM



## Alarm Relay (1738 only)



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

## Keypad and Keypad Zone Connections

To connect the keypads to the control panel, remove the back cover and wire the GRN, YEL, RED, and BLK terminals of each keypad to the corresponding terminals on the control panel as shown in "Spectra 1738 PCB Layout" on page 39 or "Spectra 1728 PCB Layout" on page 38. There is no limit to the number of keypads that can be connected to the control panel so long as the current consumption does not surpass 700mA.

Each keypad has one zone input terminal, allowing you to connect one motion detector or door contact directly to a keypad. For example, a door contact located at the entry point of an establishment can be wired directly to the input terminal of the entry point keypad instead of wiring the door contact all the way to the control panel. The keypad can then communicate the status of the zone to the control panel. A maximum of two keypad zones can be used with each control panel. After connecting the device, the zone's parameters must be defined. For details on zone recognition and zone programming refer to page 4.

For details on Keypad Tamper Supervision or Configuring the LED Keypads, please see the Spectra 1728 & 1738 Reference and Installation Manual.

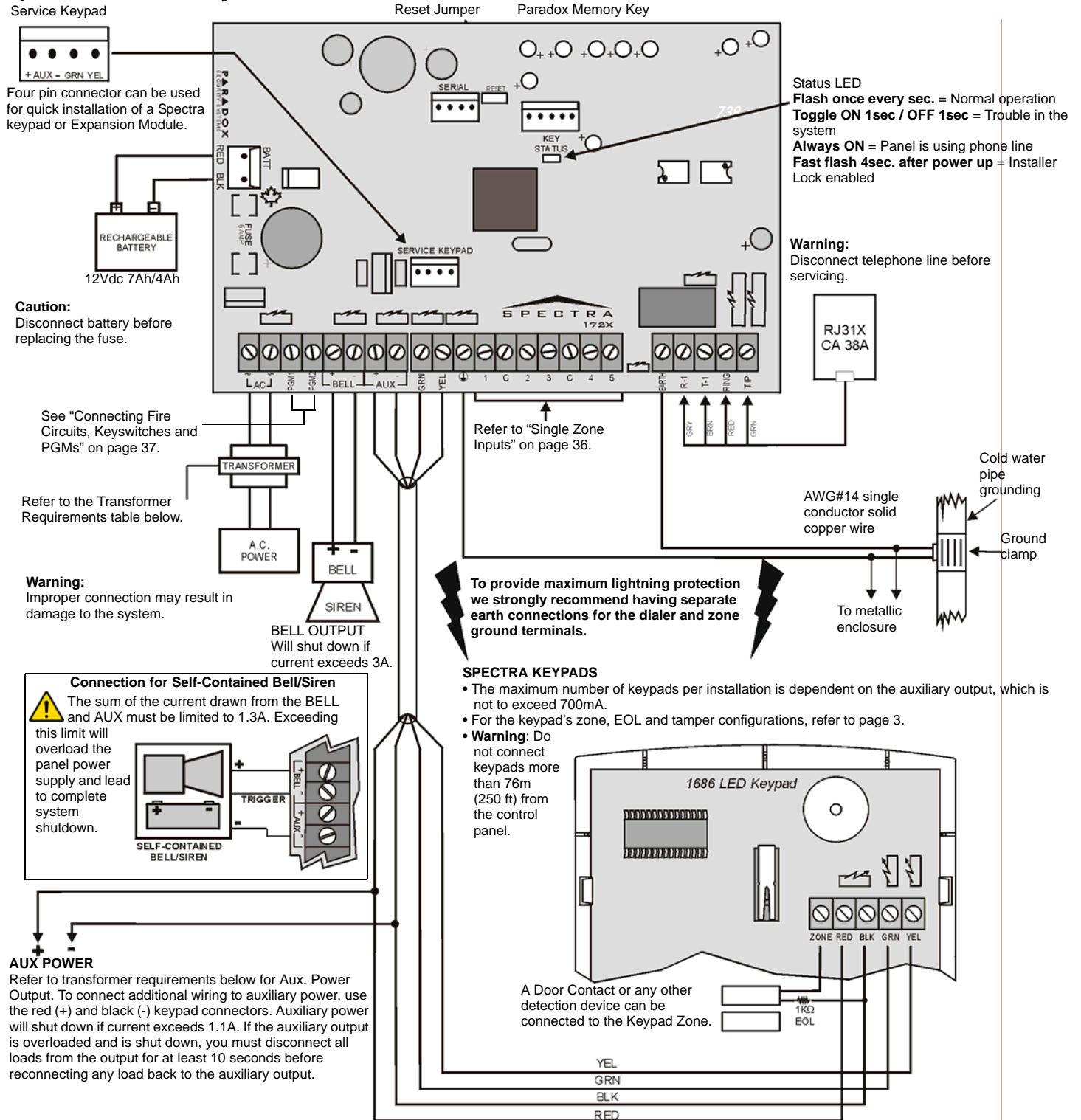


**If you do not use the keypad zone, do not connect a jumper across the "ZN" and "-" terminals; leave the zone open.**



**For proper operation of the keypad zones whether they are used or not, always enable the Keypad Zone Sending option on all LCD keypads.**

# Spectra 1728 PCB Layout



For UL Listed warnings, refer to the **UL and cUL Warnings** section in the *Spectra Reference & Installation Manual*.

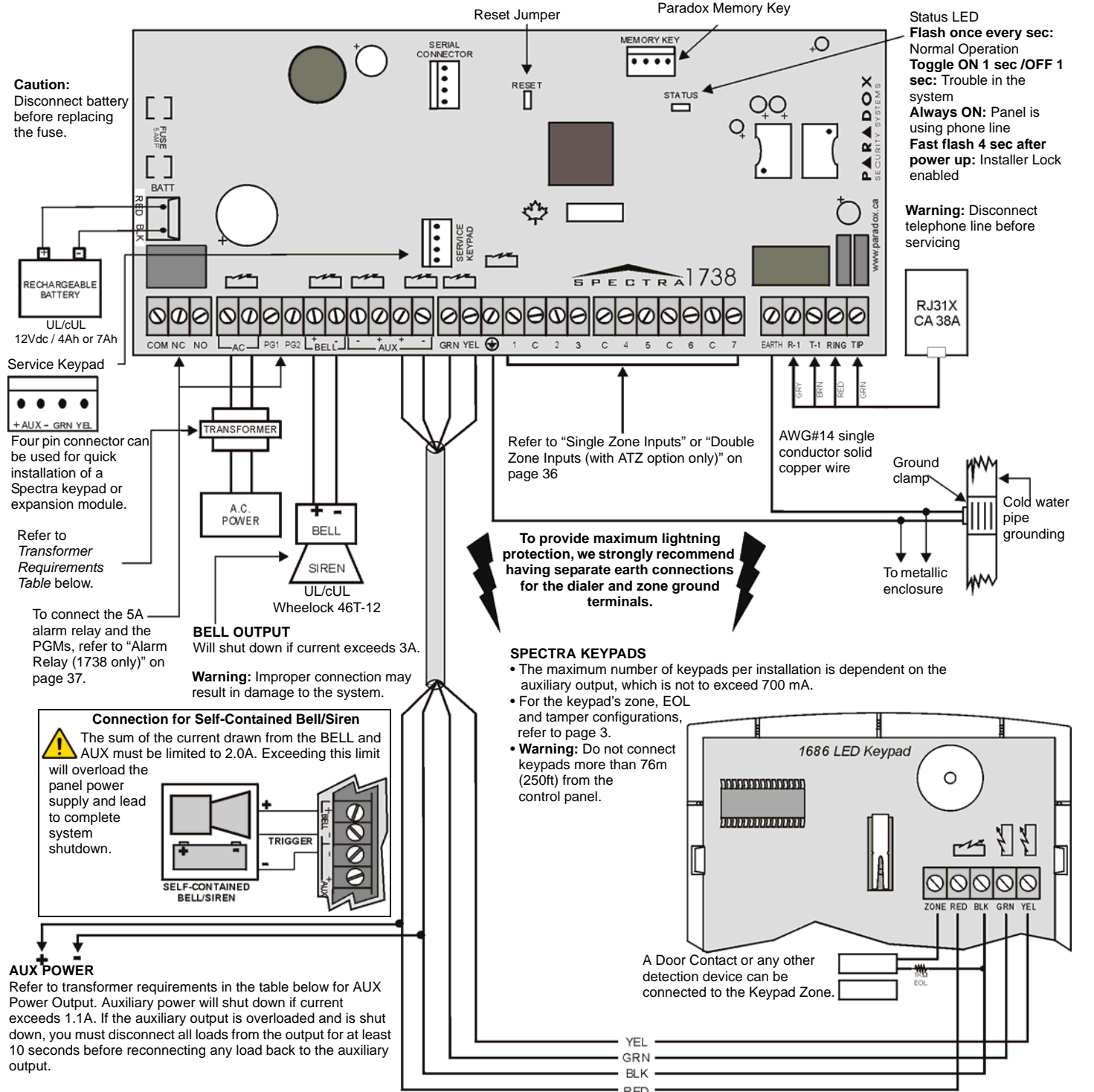
**Transformer Requirements Table**

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

\* Not verified by UL.



Spectra 1738 PCB Layout



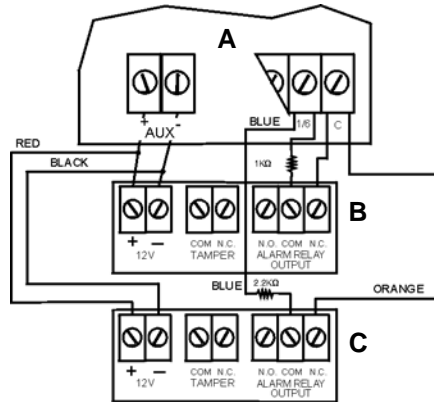
For UL Listed warnings, refer to the **UL and cUL Warnings** section in the *Spectra Reference & Installation Manual*.

Transformer Requirements Table

Transformer:	Amseco XP-1620 16VAC, <b>20VA*</b>	Rec: 16.5VAC <b>40VA</b> UL: Basler BE156240CAA007
Spectra DC Power Supply rated at:	1.2A	1.5A
Auxiliary Supply can provide a maximum of:	typ: 600mA, max: 700mA	typ: 600mA, max: 700 mA
Acceptable Battery Charge Currents (section [127] option [5])	350mA	350mA/700mA

\* Not verified by UL.

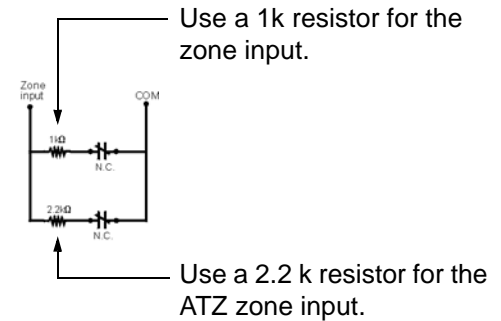
## ATZ Wiring Options (V2.4 or higher)



A - Control panel terminals

B - Detector 1 terminals

C - Detector 2 terminals



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