

# nERGY® bluePRINT®

## HANDHELD REMOTE ENGCP15001 PROGRAMMING MANUAL



### ⚠ WARNING

- HIGH CURRENT interconnects must be properly terminated. Poor crimp quality can cause heat build-up and fire. Follow crimp connector manufacturer instructions.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to vehicle Owner's Manual for deployment zones.
- Do NOT use system to disconnect headlights, brake lights or other safety equipment.
- Unit may become hot to touch during normal operation.
- Failure to properly install connectors, fuses or wiring may cause vehicle failure or fire.
- Installation must only be performed by trained technician. Installer must determine vehicle wiring configuration and proper integration of system.
- Use proper wire gauge. All power wires connecting to positive (+) or negative (-) battery terminal or local chassis ground (-) must be sized to supply at least 125% of max. current and properly fused at power source.
- Install protective grommets when routing wire through firewall or metal.



1.800.338.7337 / www.soundoffsignal.com

Tech Specs	nERGY Control System Control Panel
<b>Input Voltage:</b>	10-16Vdc (Negative Ground)
<b>Sleep Current:</b>	8 mA
<b>Inputs:</b>	1x 3pin MIC Input
<b>Reverse Polarity Protection:</b>	Protected
<b>Transient Protection:</b>	Protected
<b>High Voltage Protection:</b>	Protected
<b>Low Voltage Protection:</b>	Protected
<b>Operating Temp:</b>	-40 °C to + 65 °C
<b>Dimensions:</b>	6.9"H x 3.5"Wx 1.2"D
<b>Weight, Boxed:</b>	1.3lb.
<b>Weight, Device Only:</b>	1.1lb
<b>The control panel is not waterproof. Install in a protected location away from excessive heat and moisture.</b>	

### SIREN AMPLIFIER DIAGNOSTIC INDICATORS:

STANDBY	SPKR 1 INDICATOR	SPKR 2 INDICATOR	CONDITION
FLASHING	ON	ON	OVER-TEMPERATURE, (380R ONLY)
FLASHING	OFF	ON	UNDER-VOLTAGE
FLASHING	ON	OFF	OVER-VOLTAGE
FLASHING	FLASHING	-	COMM FAULT - RELAY
FLASHING	-	FLASHING	COMM FAULT - AMP
FLASHING	FLASHING	FLASHING	COMM FAULT - CENTRAL CONTROLLER
ON	-	-	STANDBY MODE
*OFF	ON	-	SPKR 1 IS ACTIVE
*OFF	-	ON	SPKR 2 IS ACTIVE
*OFF	OFF	-	SPKR 1 IS NON-FUNCTIONING
*OFF	-	OFF	SPKR 2 IS NON-FUNCTIONING

\* SIREN AUDIO BUTTON ACTIVATED  
(EXCEPT RADIO REBROADCAST)

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\* = Setting can be selected in software configuration application

Setting in configuration application will override control panel displayed setting.

### LEGEND:

ON = ●

### NOTE:

For All programming modes: Momentarily depress Radio Rebroadcast push-button to save and exit.

To hear samples of all the tones available go to [www.soundoffsignal.com](http://www.soundoffsignal.com) website.

Denotes Factory Default Setting

\* = Setting can be selected in software configuration application  
Setting in configuration application will override control panel displayed setting.

## Programming Modes

### Auxiliary Button Programming:

1. Press and Hold Auxiliary Button #1 and #6 until Level 1 LED Flashes.
2. Press the auxiliary button which setting is going to be viewed/changed.
3. Monitor the Arrow/Alley LED's to determine setting for Auxiliary Button

- Toggle ON/OFF
- Momentary ON
- 8 Second Delay
- Left Arrow
- Right Arrow
- Center Out - Arrow
- Alley Left
- Alley Right
- Single Button Arrow
- Single Button Alley

4. Press and release Auxiliary Button until desired mode is selected.
5. Continue steps 2-4 for any other Auxiliary Buttons needing to be programmed.

### Slide Switch Mode:

1. Press and Hold Auxiliary Button #1 and #4 until Level 2 LED flashes.
2. Press Auxiliary switch 1, 2, or 3 depending on required mode of operation.

Aux 1: Progressive 1,2,3  
 Level 1 selected: Active Outputs: 1  
 Level 2 selected: Active Outputs: 1,2  
 Level 3 selected: Active Outputs: 1,2,3

Aux 2: Progressive 1,2,3 with option to turn off lower levels  
 Level 1 selected: Active Outputs: 1  
 Level 2 selected: Active Outputs: 1,2 (Level 1 may be turned OFF)  
 Level 3 selected: Active Outputs: 1,2,3 (Level 1 and 2 may be turned OFF)

Aux 3: Individual 1,2,3  
 Level 1 selected: Active Outputs: 1  
 Level 2 selected: Active Outputs: 2  
 Level 3 selected: Active Outputs: 3

### NOTICE:

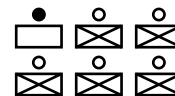
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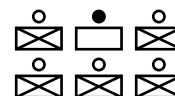
### Input Settings:

- \* 1. Press and Hold Auxiliary Button #1 and #3 until LEVEL #3 LED flashes.
  1. Park Kill Polarity Mode: Determines what voltage level will activate park kill functions. Disables AUX Input



ON = Activated when Ground is applied to Park Kill input wire.  
 OFF = Activate when +V is applied to Park Kill input wire

- \* 2. Horn Ring Polarity Mode: Determines what voltage level will activate Horn Ring functions.



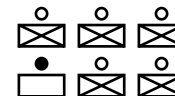
ON = Activated when Ground is applied to Horn Ring input wire.  
 OFF = Activated when +V is applied to Horn Ring input wire.

- \* 3. PA Volume Control (see Setting PA Volume)



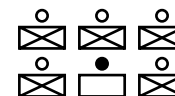
ON = RR Button Adjustable  
 OFF = Programmed

4. Level 3 Tone Activation: Determines when the siren tone push-buttons on control panel are enabled.



ON = Tone push buttons always enabled  
 OFF = Tone push button only enabled with slide switch is in position #3.

5. 8 Second Buzzer alert: Provides audible beep when ever any auxiliary switches are ON or level 1, 2 or 3 is active.



ON = Enabled  
 OFF = Disabled

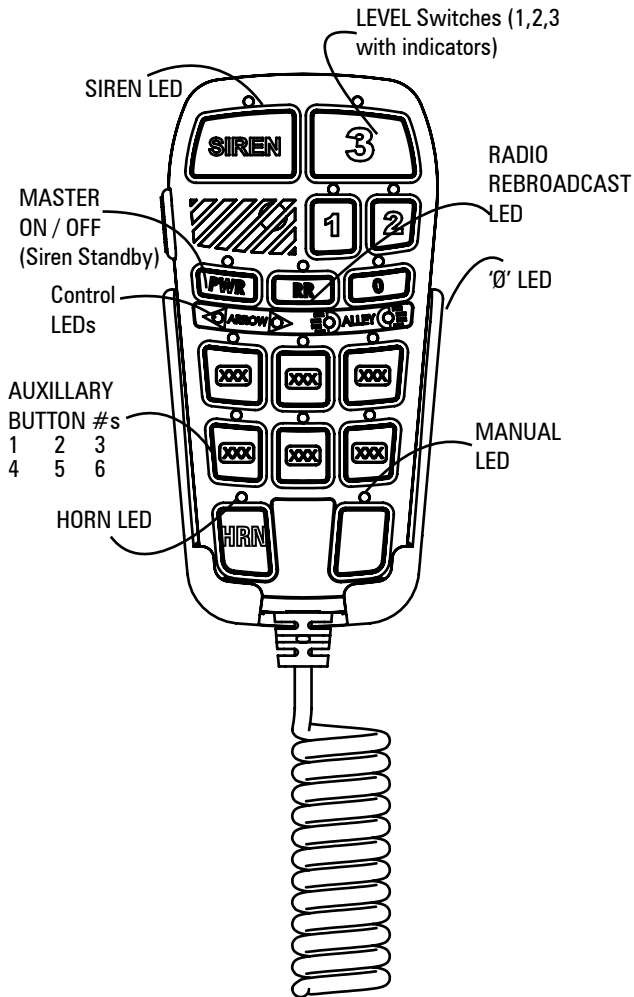


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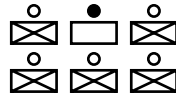
### PROGRAMMING MANUAL



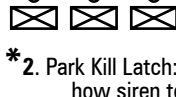
#### Other Modes:

1. Press and Hold Auxiliary Button #1 and #5 until LEVEL #1 and LEVEL #3 indicator LED flashes.

1. Buzzer: Audible tone from control panel whenever operator presses push-button or changes position of slide/rotary switch.

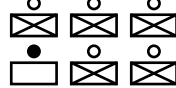


ON = Enabled



OFF = Disabled

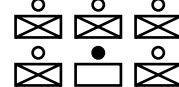
\* 2. Park Kill Latch: When Park Kill input is triggered, determines how siren tone proceeds once park kill input is no longer active.



ON = Tone remains disabled until operator selects other tone.

OFF = Tone resumes once Park Kill input is no longer active

3. Power Down: Determines whether siren will operate when ignition input has no voltage



ON = Siren will operate w/o voltage on ignition input

OFF = Siren is disabled when no voltage is present on ignition input

4. Auxiliary Input: Determines which siren tone will activate when auxiliary input is activated.



ON = Air Horn tone

OFF = Tone which is programmed on Wail push-button

2. When finished, momentarily depress Radio Rebroadcast (RR) button to exit programming mode.

#### ALTERNATE HORN RING CONTROL

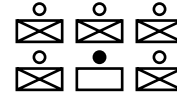
	OPTION 1	OPTION 2				
STANDBY	OEM HORN	OEM HORN				
LEVEL 1	OEM HORN	OEM HORN				
LEVEL 2	Air Horn or Wail Button Tone while Pressed *	Tap to Turn On Warning Tone, Tap again to Change Warning Tone. Press and Hold for Air Horn Tone				
LEVEL 3	Tap to turn ON Warning Tone, Tap again to change Warning Tone. Press and Hold for Air Horn Tone	<table border="1"> <tr> <th>TONE SWITCH OFF:</th> <th>TONE SWITCH ON:</th> </tr> <tr> <td>Air Horn Tone or Wail Button Tone while Pressed *</td> <td>Tap to change Warning Tone, Press and Hold for Air Horn Tone</td> </tr> </table>	TONE SWITCH OFF:	TONE SWITCH ON:	Air Horn Tone or Wail Button Tone while Pressed *	Tap to change Warning Tone, Press and Hold for Air Horn Tone
TONE SWITCH OFF:	TONE SWITCH ON:					
Air Horn Tone or Wail Button Tone while Pressed *	Tap to change Warning Tone, Press and Hold for Air Horn Tone					

\* Set in "Horn Ring Program"  
3. Horn Ring Standby Tone

#### Horn Ring Program:

1. Press and Hold Auxiliary Button #3 and #4 until 'Ø' LED flashes.

1. Alternate Horn Ring Control: Custom operation of vehicle horn when pressed. Refer to figure left for details.

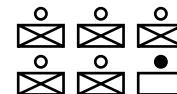


ON = Enabled



OFF = Disabled

2. Alternate Horn Ring Control Option: (Alternate Horn Ring Control must be enabled). Custom operation of vehicle horn when pressed. Refer to figure left for details.



ON = Option 2



OFF = Option 1

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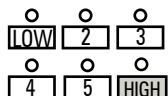
### PROGRAMMING MANUAL

#### Setting PA Volume:

- \* 1. PA Volume Control (see **Input Settings**, 1-3)

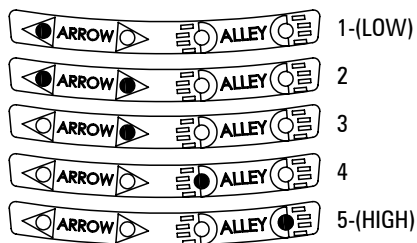
#### If set to "Programmed"

2. Press and Hold Auxiliary Button #1 and #2 until LEVEL #2 and LEVEL #3 LED flashes.
  - a. Depress and hold PA switch on microphone and press Pushbutton 1-6 depending on volume required. When correct volume is determined, press Radio Rebroadcast and the volume setting will be permanently stored.



#### If set to "RR Button Adjustable"

3. Momentarily press RR Button to select PA Volume. PA Volume will be displayed on indicators below RR Button.



#### AUXILIARY AND LEVEL SWITCH LED INDICATORS:

LED INDICATOR	CONDITION
OFF	RELAY OUTPUT IS OFF
ON	RELAY OUTPUT IS ON
FLASHING	RELAY OUTPUT HAS A FAULT

#### SIREN AMPLIFIER DIAGNOSTIC INDICATORS:

POWER LED	SIREN LED	HORN LED	MANUAL LED	CONDITION
ON	FLASHING	ON	ON	OVER-TEMPERATURE (380R ONLY)
ON	FLASHING	OFF	ON	UNDER-VOLTAGE
ON	FLASHING	ON	OFF	OVER-VOLTAGE
ON	FLASHING	FLASHING	-	COMM FAULT - RELAY
ON	FLASHING	-	FLASHING	COMM FAULT - AMP
ON	FLASHING	FLASHING	FLASHING	COMM FAULT -RELAY AND AMP
ON	OFF	-	-	STANDBY MODE
OFF	ON	ON	-	SPKR 1 IS ACTIVE
OFF	ON	OFF	-	SPKR 1 IS NOT-FUNCTIONING
OFF	ON	-	ON	SPKR 2 IS ACTIVE
OFF	ON	-	OFF	SPKR 2 IS NOT-FUNCTIONING

#### \* Tones Program:

1. Press and Hold Buttons #2 and #5 until Level 1, Level 2 and Level 3 LEDs flash.
2. Press SIREN button to program the tones (each press of the SIREN button will advance to next TONE mode). Note: in operation, each press of the SIREN button will scroll between the 3 programmed tones.
3. **SIREN Mode**  
 SIREN LED: Siren Tone #1  
 PWR LED: Siren Tone #2  
 SIREN LED and PWR LED: Siren Tone #3
4. Press Auxiliary Buttons to get required tone

#### 5. HORN Button:

Press Horn Button and HORN 1 LED will turn ON Press Auxiliary Buttons to get required tone.

#### 6. Man Button:

Press MAN Button and MANUAL LED will turn ON Press Auxiliary Buttons to get required tone.

#### MANUAL BUTTON TONE DURATION

MOMENTARY: When played solo

LATCHED: When played over other tones.

#### AUXILIARY TONE #1

AUX BUTTON #4	AUX BUTTON #5	AUX BUTTON #6	PRIMARY SPKR 1 TONE	SECONDARY SPKR 2 TONE
OFF	OFF	OFF	Disabled	Disabled
OFF	OFF	ON	WAIL 1	WAIL 2
OFF	ON	OFF	Yelp 1	Yelp 2
OFF	ON	ON	ALERT A	YELP 1
ON	OFF	OFF	Piercer 1	Yelp 1
ON	OFF	ON	HiLo	Super HiLo Tone
ON	ON	OFF	Super HiLo Tone	Super HiLo Tone
ON	ON	ON	Cycle Tone (Wail 1, Yelp 1, Alert A, Piercer)	Cycle Tone (Yelp 1, Alert A, Piercer, Yelp 1)

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#### AUXILIARY TONE #1

AUX BUTTON #4	AUX BUTTON #5	AUX BUTTON #6	PRIMARY SPKR 1 TONE	SECONDARY SPKR 2 TONE
OFF	OFF	OFF	Disabled	Disabled
OFF	OFF	ON	WAIL 1	WAIL 2
OFF	ON	OFF	Yelp 1	Yelp 1
OFF	ON	ON	ALERT A	YELP 1
ON	OFF	OFF	Piercer 1	Yelp 1
ON	OFF	ON	HiLo	Super HiLo Tone
ON	ON	OFF	Super HiLo Tone	Wail 1
ON	ON	ON	Cycle Tone (Wail 1, Yelp 1, Alert A, Piercer)	Cycle Tone (Yelp 1, Alert A, Piercer, Yelp 1)

#### Tone #3

AUX BUTTON #4	AUX BUTTON #5	AUX BUTTON #6	PRIMARY SPKR 1 TONE	SECONDARY SPKR 2 TONE
OFF	OFF	OFF	Disabled	Disabled
OFF	OFF	ON	WAIL 1	WAIL 2
OFF	ON	OFF	Yelp 1	Yelp 2
OFF	ON	ON	ALERT A	YELP 1
ON	OFF	OFF	Piercer 1	Wail1
ON	OFF	ON	HiLo	Wail 1
ON	ON	OFF	Super HiLo Tone	Piercer 1
ON	ON	ON	Cycle Tone (Wail 1, Yelp 1, Alert A, Piercer)	Cycle Tone (Yelp 1, Alert A, Piercer, Yelp 1)

#### MANUAL BUTTON (SOLO PLAY ONLY)

BUTTON #4	BUTTON #5	BUTTON #6	SPKR 1 TONE	SPKR 2 TONE
OFF	OFF	OFF	WAIL 1 (W/FREQ. DECREASE)	WAIL 1 (W/FREQ. DECREASE)
OFF	OFF	ON	WAIL 1 (IMMEDIATE OFF)	WAIL 1 (IMMEDIATE OFF)
OFF	ON	OFF	YELP 1	YELP 1
OFF	ON	ON	PIERCER	PIERCER
ON	OFF	OFF	ALERT A	ALERT A
ON	OFF	ON	HiLo	HiLo
ON	ON	OFF	SUPER HiLo	SUPER HiLo
ON	ON	ON	WAIL 1 (IMMEDIATE OFF)	WAIL 1 (IMMEDIATE OFF)

#### Level Switch Mapping:

- Press Auxiliary Buttons #4 and #5 until RR LED Flashes
- Press Level 1,2, or 3 switch to select level to be programmed
- Press Auxiliary Buttons #1-#6 as required. LED ON = function will turn ON when Level is active
- Press siren button for desired tone to be generated for level

Default - All level #'s produce no tone

Alley Left = Tone 1  
Alley right = Tone 2  
Alley Left and Right = Tone 3

#### Setting Backlight/Indicator LED Intensity:

- Press and Hold Radio Rebroadcast (RR) Button.
- Then press Aux Buttons 1-6 to select intensity.  
1 = Low Intensity  
6 = High Intensity

#### HORN BUTTON

BUTTON #4	BUTTON #5	BUTTON #6	SPKR 1 TONE	SPKR 2 TONE
OFF	OFF	OFF	HORN 1	HORN 1
OFF	OFF	ON	HORN 2	HORN 2
OFF	ON	OFF	HORN 3	HORN 3
OFF	ON	ON	HORN 4	HORN 4
ON	OFF	OFF	HORN 1	HORN 2
ON	OFF	ON	HORN 2	HORN 3
ON	ON	OFF	HORN 3	HORN 4
ON	ON	ON	HORN 4	HORN 2

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