

REMOTE CONTROL PANEL

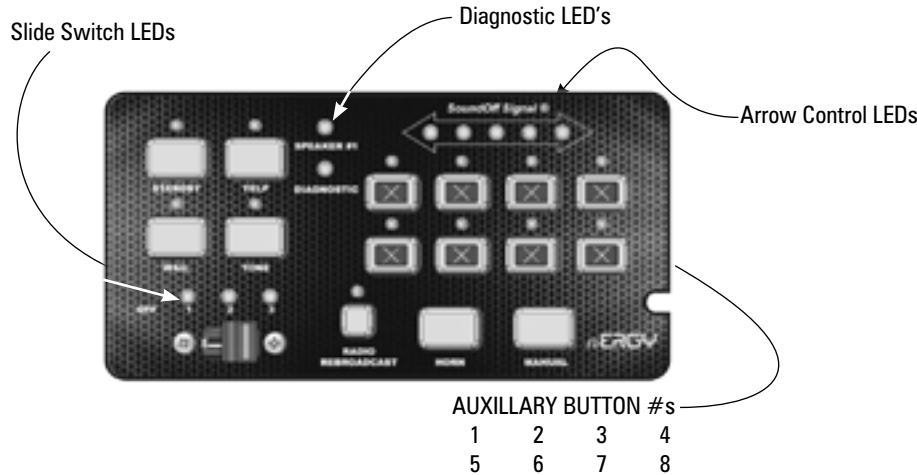
PSRNCTRL1, PSRN4CTRL1

PROGRAMMING MANUAL

CONTROLS THESE SIREN

AMPS: E TSA380R
 E TSA385HR
 E TSA461HPP
 E TSA462HPP
 PSRN4ANR1
 PSRN4ANR2

Base AMP may need software upgrade



LEGEND:

- ON
- OFF
- DON'T CARE

GRAYED AREAS DENOTE FACTORY DEFAULTS

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

To hear samples of all the tones available go to www.soundoffsignal.com website.

INPUT SETTINGS:

1. Press and Hold Auxiliary Button 1 and 3 until slide switch #3 LED flashes.

1. Park Kill Polarity Mode: Determines what voltage level will activate park kill functions.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON = activated when +V is applied to Park Kill input wire.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OFF = activated when Ground is applied to Park Kill input wire.

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

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON = activated when +V is applied to Horn Ring input wire
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OFF = activated when Ground is applied to Horn Ring input wire

3. Tone Push-button: Determines if the Tone Push-button activation will allow a siren tone to be produced.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON = Tone Push-button Enabled
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Tone Push-button Disabled

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

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON = Tone push-buttons always enabled
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Tone push-buttons only enabled when slide switch is in position #3.

5. Horn Ring Timeout: (Alternate Horn Ring control must be disabled and hands free mode must be enabled for function to have any effect). When vehicle horn is pressed and tone changes, determines how tone will change back to pre-vehicle horn press tone.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON = siren tone will revert back to pre-vehicle horn press tone after 8 seconds
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OFF = siren tone will not revert back to pre-vehicle horn press tone

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

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON = Tone remains disabled until operator selects other tone
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Tone resumes once Park Kill input is no longer active

7. Horn Ring Cycle: (Hands Free Mode must be enabled for function to have any effect) Determines how siren tone will change each time the operator presses the vehicle horn.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON = Tone will advance through tones programmed on Wail, Yelp, and Tone push-buttons each time vehicle horn is pressed
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Tone will switch between tones programmed on Wail and Yelp push-buttons each time vehicle horn is pressed

8. Auxiliary Input: Determines which siren tone will be activated when auxiliary input is activated.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON = Air Horn tone
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Tone which is programmed on Wail push-button



REMOTE CONTROL PANEL

PSRNCTRL1, PSRN4CTRL1

PROGRAMMING MANUAL

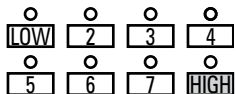
SLIDE SWITCH SETTINGS:

1. Press and hold Auxiliary Push-Button "1" and "4" until slide switch #2 indicator LED flashes.
2. Press Auxiliary Push-Button "1", "2" or "3" depending on which configuration for the slide switch is required.

SLIDE SWITCH SETTINGS					
MODE		RELAY OUTPUT #1	RELAY OUTPUT #2	RELAY OUTPUT #3	SLIDE SWITCH POSITION
1	AUXILIARY PUSH-BUTTON '1' IS SELECTED	✓			1
		✓	✓		2
		✓	✓	✓	3
2	AUXILIARY PUSH-BUTTON '2' IS SELECTED	✓			1
			✓		2
				✓	3
3	AUXILIARY PUSH-BUTTON '3' IS SELECTED	✓			1
			✓		2
		✓	✓	✓	3

Setting PA Volume:

1. Press and Hold Auxiliary Push-Button "1" and "2" until slide switch #2 and #3 indicator LED flashes.
2. Depress and hold PA switch on microphone and press Push-button "1"- "8" depending on volume required. When correct volume is determined, press Radio Rebroadcast and the volume setting will be permanently stored.



BACKLIGHT INTENSITY:

While pressing RADIO REBROADCAST BUTTON, press Auxiliary Button 1-8 to adjust backligh intensity. Button 1 = Lowest intensity, Button 8 = Highest intensity. Backlight must be enabled by the Gray wire on CN6.



ALTERNATE MODES:

1. Press and Hold Auxiliary Push-Button "2" and "6" until Slide Switch indicator #1 and indicator #2 LED flashes.

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



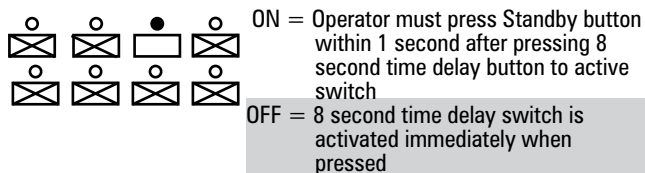
2. Alternate Horn Ring control option: (Alternate Horn Ring Control must be enabled). Custom operation of vehicle horn when pressed. Refer to figure below for details.



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	TOGGLE SWITCH OFF: Air Horn Tone or Wail Button Tone while Pressed *	TOGGLE SWITCH ON: Tap to change Warning Tone, Press and Hold for Air Horn Tone

*Set in "OTHER MODES" 6. Horn Ring Stanyby Tone

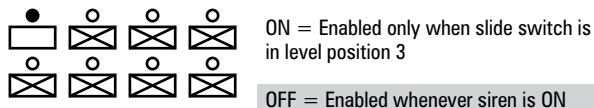
3. GUN LOCK SECURITY:



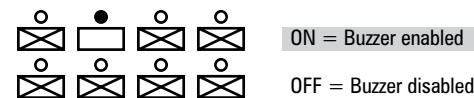
OTHER MODES:

1. Press and Hold Auxiliary Button "1" and "5" until slide switch #1 and #3 indicator LED flashes.

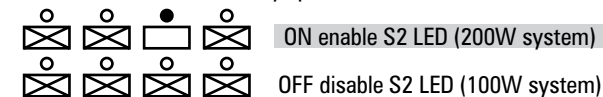
1. Horn Ring Activation: Determines when pressing the Vehicle Horn will activate siren tone



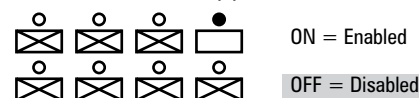
2. Buzzer: Audible tone from control panel whenever operator presses push-button or changes position of slide/rotary switch



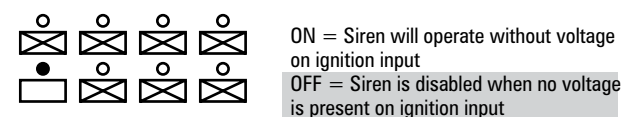
3. Speakers diag LED disable: Disabling S2 LED does not turn off secondary speaker channel



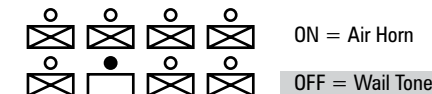
4. Hands Free Mode: (Alternate Horn Ring Control Must be Disabled) Activates the siren tone when operator momentarily presses on Vehicle Horn.



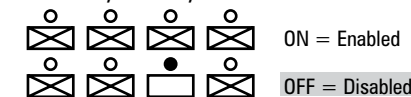
5. Power Down: Determines whether siren will operate when ignition input has no voltage



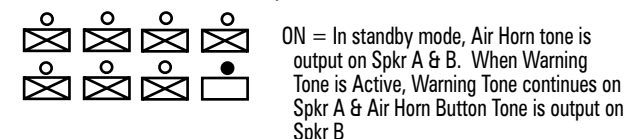
6. Horn Ring Standby Tone: (Hands Free Mode must be disabled for this function to work) (Alternate Horn Ring Control Must be Disabled) Determines which tone to output when siren is in standby and vehicle horn is pressed



7. 8 Second Buzzer alert: Provides audible beep whenever any auxiliary switches are ON or level 1, 2, or 3 is active.



8. Air Horn Button Output Channels



REMOTE CONTROL PANEL

PSRNCTRL1, PSRN4CTRL1

PROGRAMMING MANUAL

PROGRAMMING MODES

AUXILIARY SWITCH SETTINGS:

Refer to Figure at bottom center for Button and LED locations and terminology

1. Press and Hold Auxiliary Button #1 and #8 until slide switch #1 LED flashes.
2. Press the button which setting is going to be viewed/changed 1 time.
3. Monitor the 5 LED's for the arrow controller to determine setting
 - ⊙⊙⊙⊙⊙- *Arrow Controller (Left, Right, Center, OFF), Dual Output; 1 & 9
 - ⊙⊙⊙⊙⊙- Alternate Action Switch (Press ON / Press OFF)
 - ⊙⊙⊙⊙⊙- Momentary Action Switch (ON only when depressed)
 - ⊙⊙⊙⊙⊙- 8 Second ON Time (ON for 8 seconds when depressed)
 - ⊙⊙⊙⊙⊙- Level 1 Disable (Turns OFF Level 1 Output)
 - ⊙⊙⊙⊙⊙- Level 2 Disable (Turns OFF Level 2 Output)
 - ⊙⊙⊙⊙⊙- Left Arrow, Single Output
 - ⊙⊙⊙⊙⊙- Right Arrow, Single Output
 - ⊙⊙⊙⊙⊙- Center Arrow, Single Output
 - ⊙⊙⊙⊙⊙- Warning Bar Output

*Can only be programmed to one button and will disable Left, Right and Center Arrow Single Outputs if they are used.

4. Press and release button until desired mode is selected.
5. Continue steps 2-3 for any other buttons that need to be programmed.

Default Settings:

Button #1: Arrow Controller
 Button #2-7: Alternate Action Switch
 Button #8: 8 Second ON Time

Denotes Factory Default Setting



Auxiliary Push-button to Slide switch mapping programming:

Allows the operator to have the siren automatically turn on auxiliary push-buttons based on the position of the slide switch.

If an auxiliary push-button is programmed to turn ON when the slide switch position is selected, the auxiliary push-button will turn OFF when the programmed slide switch position is no longer selected.

The operator can override the automatic activation of the auxiliary push-button by momentarily pressing the auxiliary push-button.

To program:

1. Press auxiliary push-buttons '4' and '5' for 2 seconds until Radio Rebroadcast indicator LED flashes.
2. Move slide switch to desired position.
3. Press auxiliary push-buttons '1' – '8' as required.

LED ON	Auxiliary push-button will automatically turn ON when level switch position is activated.
LED OFF	Auxiliary push-button will not automatically turn ON when level switch position is activated.

4. Repeat steps 2 and 3 for other slide switch positions as required.
5. Place appropriate button legend over activity indicator for each programmed button.

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 -RELAY AND AMP
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)

STONE PROGRAMMING:

1. Press and hold "buttons" "2" and "7" for 2 seconds until Slide switch LED'S 1,2, and 3 flash
2. Press tone button to be programmed (Wail, Yelp, Tone, Manual, or Horn). Auxiliary button 1 = HORN, button 2 = MANUAL
3. Auxiliary buttons 5-8 will determine which tone is to be played when the user presses the button.
4. Repeat steps 2 and 3 for each tone button
5. Press Radio Rebroadcast button to exit programming mode

MANUAL BUTTON TONE DURATION

MOMENTARY: When played solo

LATCHED: When played over other tones.

REMOTE CONTROL PANEL

PSRNCTRL1, PSRN4CTRL1

PROGRAMMING MANUAL

WAIL BUTTON

BUTTON #6	BUTTON #7	BUTTON #8	SPKR A	SPKR B
OFF	OFF	OFF	WAIL 1	WAIL 1
OFF	OFF	ON	WAIL 2	WAIL 2
OFF	ON	OFF	WAIL 1	WAIL 2
OFF	ON	ON	WAIL 1	YELP 1
ON	OFF	OFF	WAIL 1	ALERT A
ON	OFF	ON	WAIL 1	HiLo
ON	ON	OFF	WAIL 2	SUPER HiLo
ON	ON	ON	WAIL 2	PIERCER

*TONE SCROLL

SPKR A	SPKR B
WAIL 1	WAIL 2
WAIL 2	YELP 1
YELP 1	YELP 2
YELP 2	PIERCER
PIERCER	ALERT A
ALERT A	WAIL 1

YELP BUTTON

BUTTON #6	BUTTON #7	BUTTON #8	SPKR A	SPKR B
OFF	OFF	OFF	YELP 1	YELP 1
OFF	OFF	ON	YELP 2	YELP 2
OFF	ON	OFF	YELP 1	YELP 2
OFF	ON	ON	YELP 1	ALERT A
ON	OFF	OFF	YELP 1	PIERCER
ON	OFF	ON	YELP 1	HiLo
ON	ON	OFF	YELP 2	SUPER HiLo
ON	ON	ON	YELP 2	PIERCER

TONE BUTTON

BUTTON #5	BUTTON #6	BUTTON #7	BUTTON #8	SPKR A	SPKR B
OFF	OFF	OFF	OFF	TONE SCROLL*	TONE SCROLL*
OFF	OFF	OFF	ON	PIERCER	PIERCER
OFF	OFF	ON	OFF	HiLo	HiLo
OFF	OFF	ON	ON	SUPER HiLo	SUPER HiLo
OFF	ON	OFF	OFF	ALERT A	ALERT A
OFF	ON	OFF	ON	ALERT A	HiLo
OFF	ON	ON	OFF	ALERT A	SUPER HiLo
OFF	ON	ON	ON	HiLo	SUPER HiLo
ON	OFF	OFF	OFF	HiLo	PIERCER
ON	OFF	OFF	ON	ALERT A	ALERT B
ON	OFF	ON	OFF	PIERCER	ALERT B
ON	OFF	ON	ON	PIERCER	ALERT A
ON	ON	OFF	OFF	SUPER HiLo	PIERCER
ON	ON	OFF	ON	WAIL 1	WAIL 2
ON	ON	ON	OFF	YELP 1	YELP 2
ON	ON	ON	ON	WAIL 1	YELP 1

HORN BUTTON

BUTTON #5	BUTTON #6	BUTTON #7	BUTTON #8	SPKR A	SPKR B
OFF	OFF	OFF	OFF	HORN 1	HORN 1
OFF	OFF	OFF	ON	HORN 2	HORN 2
OFF	OFF	ON	OFF	HORN 3	HORN 3
OFF	OFF	ON	ON	HORN 4	HORN 4
OFF	ON	OFF	OFF	HORN 1	HORN 2
OFF	ON	OFF	ON	HORN 1	HORN 3
OFF	ON	ON	OFF	HORN 1	HORN 4
OFF	ON	ON	ON	HORN 2	HORN 3
ON	OFF	OFF	OFF	HORN 2	HORN 4
ON	OFF	OFF	ON	HORN 3	HORN 4
ON	OFF	ON	OFF	HORN 1	WAIL 1
ON	OFF	ON	ON	HORN 1	YELP 1
ON	ON	OFF	OFF	HORN 1	PIERCER
ON	ON	OFF	ON	HORN 2	YELP 1
ON	ON	ON	OFF	HORN 3	YELP 1
ON	ON	ON	ON	HORN 4	SUPER HiLo

MANUAL BUTTON (SOLO PLAY ONLY)

BUTTON #6	BUTTON #7	BUTTON #8	SPKR A/B
OFF	OFF	OFF	WAIL 1 FREQUENCY DECREASE WHEN RELEASED
OFF	OFF	ON	WAIL 1 IMMEDIATE OFF WHEN RELEASED
OFF	ON	OFF	YELP 1
OFF	ON	ON	PIERCER
ON	OFF	OFF	ALERT A
ON	OFF	ON	HiLo
ON	ON	OFF	SUPER HiLo
ON	ON	ON	WAIL 1 IMMEDIATE OFF WHEN RELEASED

Denotes Factory Default Setting

IMPORTANT INFORMATION:

Warning devices are strictly regulated and governed by Federal, State and Municipal ordinances. These devices shall be used ONLY on approved vehicles. It is the sole responsibility of the user of these devices to ensure compliance.

To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at www.soundoffsignal.com/sales-support.
If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. at **1.800.338.7337** (press #4 to skip the automated message).
Questions or comments that do not require immediate attention may be emailed to techservices@soundoffsignal.com.

SUPERIOR CUSTOMER RELATIONSHIPS. SMARTLY DESIGNED LIGHTING & ELECTRONIC SOLUTIONS.

PSRNCTRL1 3.4.13

