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WARRANTY

SoundOff Signal warrants the Directional Arrow Switch for 1 (one) full year from the date of purchase to the original purchaser against any manufacturer defects or workmanship. This warranty applies only to units installed according to manufacturer's installation instructions and operated within the units specifications. Warranty is void if the unit was installed incorrectly or maliciously damaged. All warranty claims must be accompanied by a dated proof of purchase. SoundOff Signal retains the right to be the sole mediator of what constitutes defects in Performance or manufacturing.

ETSWDAS01 - DIRECTIONAL ARROW SWITCH



INSTALLATION & OPERATION INSTRUCTIONS

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Changing between Warning output options:

Pressing the Warning button while in product configuration mode will change the outputs the warning button controls. Below is a table of options

| | | Warning Mode Options | | | | | | |
|------------------|-------|----------------------|----|----|----|----|-------------|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 (Default) | 7 |
| Warning Mode One | DW+EW | DW | DW | EW | DW | EW | DW | EW |
| Warning Mode Two | NA | EW | DW | NA | NA | NA | DW+EW | DW+EW |

Directional Warning (DW) will apply voltage to the Yellow Wire (Warning One Output). End Warning (EW) will apply voltage to the pink wire (Warning Two Output).

In modes 1,4, and 5 there is no warning mode two.

In modes 2,3,6, and 7 pressing the warning button once will activate warning mode one. Pressing the warning button twice will activate warning mode two. To exit either warning mode, press the warning button once.

The Current Warning Mode Option is designated by the yellow LEDs.

- Warning Mode setting 1 is designated by yellow LED 1.
- Warning Mode setting 2 is designated by yellow LED 2.
- Warning Mode setting 3 is designated by yellow LED 3.
- Warning Mode setting 4 is designated by yellow LED 4.
- Warning Mode setting 5 is designated by yellow LED 5.
- Warning Mode setting 6 is designated by yellow LED 1 and 5.
- Warning Mode setting 7 is designated by yellow LED 1, 2, and 5.

Note: If the warning 2 RED LED is illuminated and an arrow button is pressed, they will both be on at the same time. Pressing the Warning button will turn off the Warning 2 output. Pressing the arrow button that is green will turn off the Arrow Function.

To exit product configuration mode:

By holding down the Left and Warning Buttons together for 2 seconds, product configuration mode can be exited. The unit will emit two short beeps. At this time release the buttons.

INSTRUCTIONS FOR LED TRAFFIC MASTER:

ETTMLLEDW3 and ETTMLLEDRA

(STANDARD WIRING SETUP: LOOKING AT BAR, CABLE EXITS ON THE LEFT REAR)

Pink Wire (Warning Two)
 ✓ Connect to Pink Wire of the Traffic Master

Yellow Wire (Warning One)
 ✓ Connect to either the Green or Purple wire of the traffic master (depending on the desired flash pattern)

Blue Wire (Left Arrow Direction)
 ✓ Connect to Dark Green wire of the Traffic Master.

Brown Wire (Center Arrow Direction)
 ✓ Connect to Yellow wire of the Traffic Master.

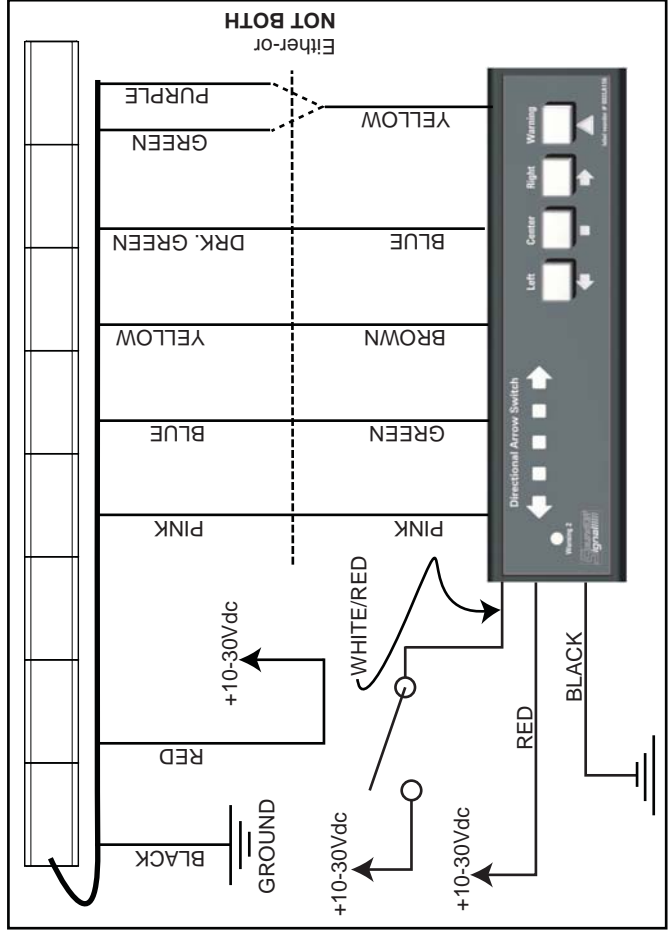
Green Wire (Right Arrow Direction)
 ✓ Connect to Blue wire of the Traffic Master.

Please see page 10 for instructions on how to change between center output options. Configure to apply power to the brown wire (Center Option 1)

Note: If you are using optional wiring, then the Dark Green and Blue wires must swap.
 Blue Wire (Left Arrow Direction)
 ✓ Connect to the Blue wire of the Traffic Master

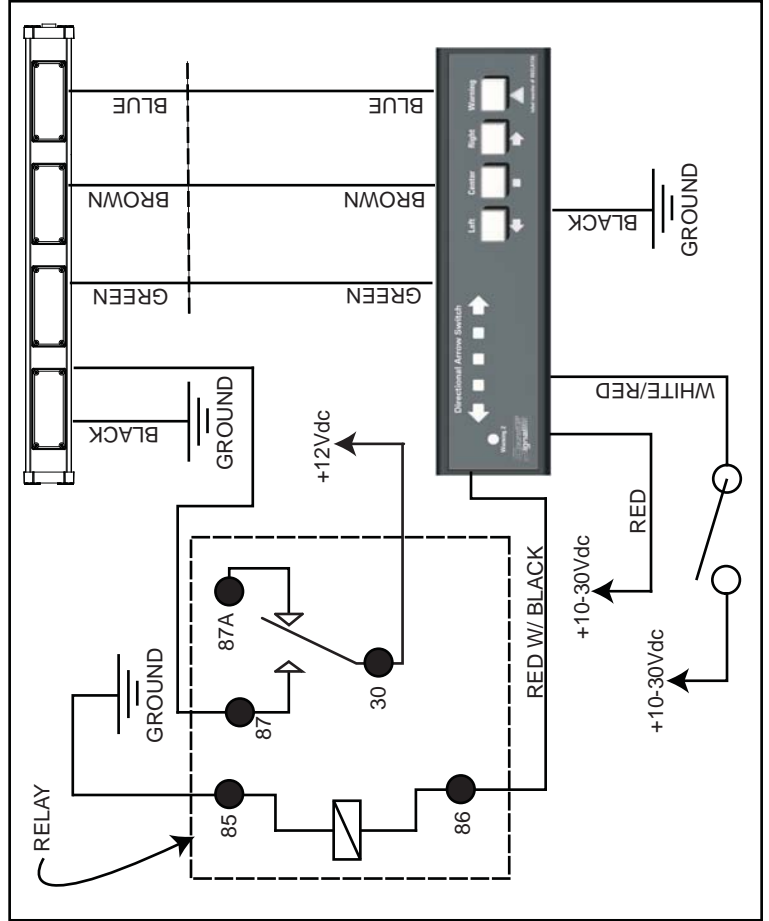
Green Wire (Right Arrow Direction)
 ✓ Connect to the Dark Green wire of the Traffic Master.

Note: End Warning can be used with the other arrow functions at the same time. With the Warning two RED LED illuminated, pressing any of the arrow functions to have the end warning on as well as the center lights of the traffic Master On. To turn off the end warning, press the warning button. To turn off the arrow functions press the arrow button.



INSTRUCTIONS FOR CONNECTION WITH PREDATOR WARNING BAR: EPRD4MD0(x), EPRD6MD0(x), EPRD8MD0(x)

| Directional Arrow Switch Wire Color | Function | Predator Warning Bar Wire Color | Function |
|-------------------------------------|------------------------|---------------------------------|------------------------|
| Blue | Left Arrow Direction | Blue | Left arrow Direction |
| Brown | Center Arrow Direction | Brown | Center arrow Direction |
| Green | Right Arrow Direction | Green | Right Arrow Direction |
| Relays Pins | Connected to | Wire Color | |
| 87 | Predator Warning Bar | Red | |
| 85 | Ground | Ground | |
| 86 | Power | Directional Arrow Switch | Red / Black |
| 30 | power | +12 V | |



Product Configuration Mode:

By holding down the Left and Warning Buttons together for 2 seconds, product configuration mode can be entered. The unit will make a long "beep", and all of the buttons will turn green when product configuration mode has been entered.

Changing the level of brightness on the red LEDs:

The level of brightness can be changed (high, low, and off) by pressing the Left button in product configuration mode.

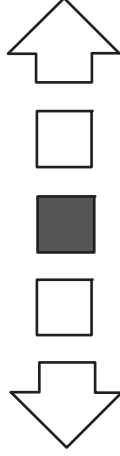
Changing level of sound:

The volume of the speaker can be changed (high, low, and off) by pressing the Right button in product configuration mode.

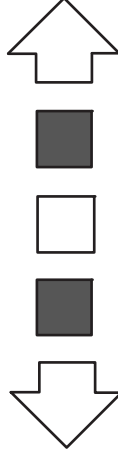
Changing between Center output options:

Which wires the Center button applies power to can be changed in the product configuration mode by pressing the Center Button.

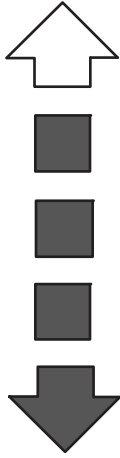
When the Yellow LED in the middle is lit, the unit will apply power to the Brown Wire



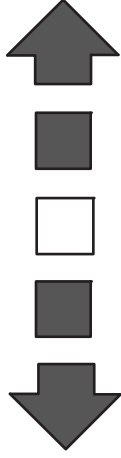
When the second and fourth LED's are lit, the unit will apply power to the Blue and Green wires.



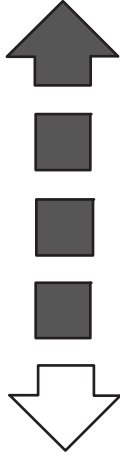
Pressing the "Left" Button will apply power to the Blue wire (Left Arrow Direction), and display the left arrow pattern on the yellow LED's.



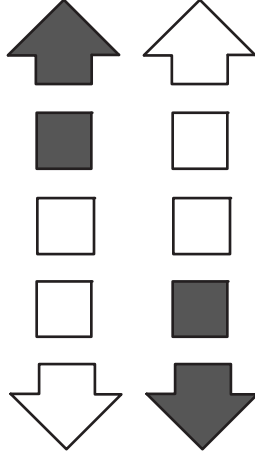
Pressing the "Center" button will apply power to the Brown Wire (Center Arrow Direction), and display the center out pattern on the yellow LED's.



Pressing the "Right" button will apply power to the Green wire (Right Arrow Direction), and display the right arrow pattern on the yellow LED's.

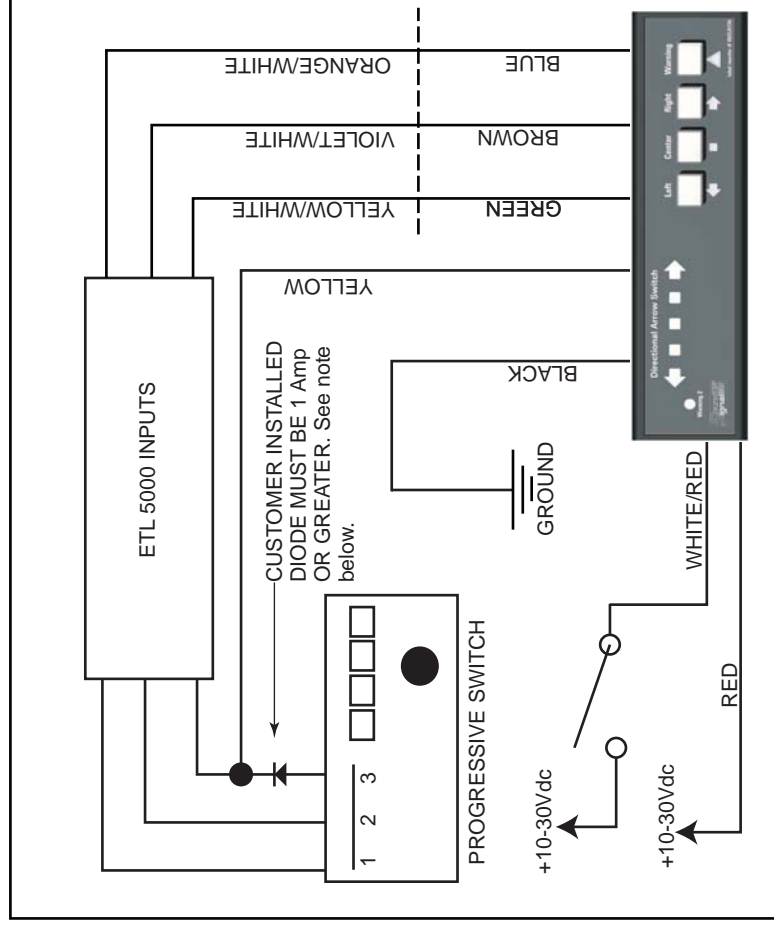


Pressing the "Warning" button will apply power to the Pink and Yellow Wire, and display an alternating pattern on the yellow LED's.



SIREN WITH PROGRESSIVE SWITCH

If a siren with a Progressive switch is installed in your vehicle, and you wish to monitor/override the output of your progressive switch, the directional arrow switch can still be used. Connect the Directional arrow switch as indicated below, then connect the output of your Progressive switch to the desired line. The Directional Arrow Switch will indicate which line is active.



IMPORTANT! Customer installed diode (i.e. 1N4004) shown above **MUST** be installed or damage to the Directional Arrow Switch could occur.

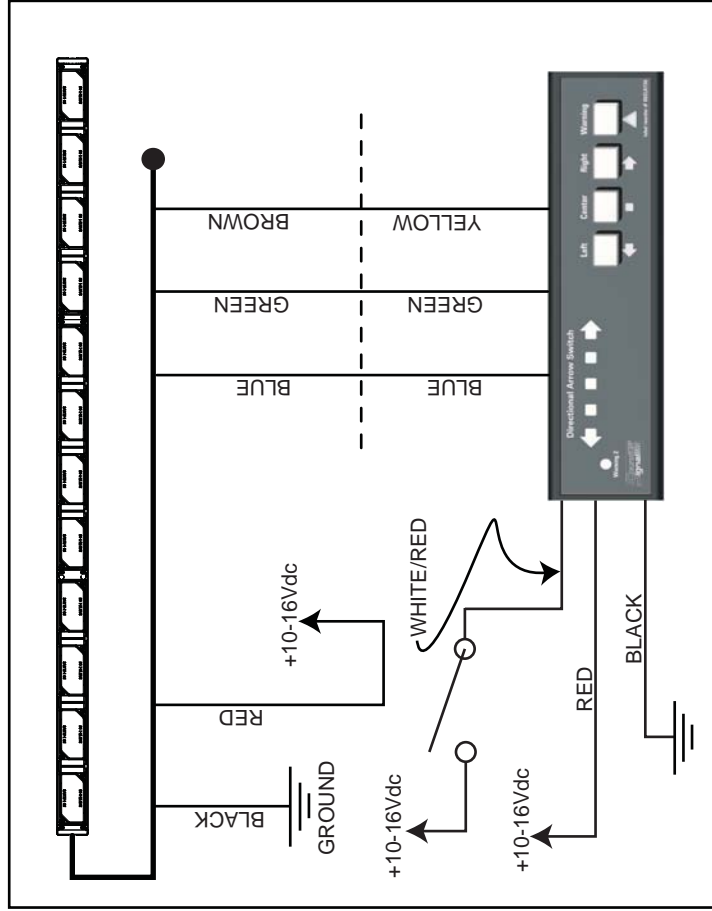
INSTRUCTION FOR CONNECTION WITH ULTRALITE

8 Module Bar (EL3H08A10(x) or UltraLITE 12 Module Bar E3H12A10(x), or E3H12A20(x))

* Note: Flash patterns on the UltraLITE must be selected prior to connection to Directional Arrow Switch.

- Blue Wire (Left Arrow Direction)
 - ✓ Connect to the blue wire on the UltraLITE
- Green Wire (Right Arrow Direction)
 - ✓ Connect to the green wire on the UltraLITE
- Yellow Wire (Warning One)
 - ✓ Connect to the brown wire on the UltraLITE
- ✓ Configure the Directional Arrow Switch to use Center Output mode 2 (see page 10)
- ✓ Configure the Directional Arrow Switch to use Warning Mode Option 2 (see page 11)

Note: End Warning can be used with the other arrow functions at the same time. With the Warning two RED LED illuminated, pressing any of the arrow functions to have the end warning on as well as the center lights of the traffic Master On. To turn off the end warning, press the warning button. To turn off the arrow functions press the arrow button.



OPERATION OF DIRECTIONAL ARROW SWITCH



| User Input | Arrow Controller Function | Wire Output |
|------------------|-----------------------------------|--|
| Left Button | Turn on Left Arrow indicator | Left Out & Pwr_Cntrl |
| Center Button | Turn on Center Arrow Indicator | (Mode 1) Center_Out & Pwr_Cntrl or (Mode 2) Left_Out & Right_Out & Pwr_Cntrl |
| Right Button | Turn on Right Arrow Indicator | Right_Out & Pwr_Cntrl |
| Warning Button | Directional Warning & End Warning | Warn1_out & Pwr_Cntrl & Warn2 * |
| Left Wire | Turn on Left Arrow Indicator | NA |
| Right Wire | Turn on Right Arrow Indicator | NA |
| Center Wire | Turn on Center Arrow Indicator | NA |
| Warning One Wire | Turn on Warning 1 Indicator | NA |
| Warning Two Wire | Turn on Warning 2 LED | NA |

*Default Warning Button operation mode is Mode #6 (See other modes on page 10)