

## PROGRAMMING

The FP#1 of each Warning Mode may be user-customized. To configure flash pattern:

1. Activate the desired Mode by applying **+VDC** to: **BROWN** wire (Mode 1), **PURPLE** wire (Mode 2), or **RED** wire (Mode 3).
2. Enter PROGRAMMING MODE by quickly tapping **+VDC** to **BROWN-BLK** wire 3 times within 1 second.
3. Once in PROGRAMMING MODE, all lighthoods will blink in low-power while the first inner front-facing pair of lighthoods will flash in high-power.

**NOTE:** If the inner forward-facing heads are Take-Down, then tap **+VDC** to **BROWN-BLK** wire once to scroll to the next pair of lighthoods.

4. To set pattern, tap **+VDC** to **YELLOW** wire:
  - Once for next pattern (see Lighthouse Pattern chart).
  - Quick 3 times within 1 second to LP#1.
5. Scroll to the next pair of lighthoods by tapping **+VDC** to **BROWN-BLK** wire.
6. Repeat Step 4 and 5 until all lighthoods are properly configured.
7. Save and exit PROGRAMMING MODE by quickly tapping **+VDC** to **BROWN-BLK** wire 3 times within 1 second.

## RESETTING

To restore factory setting:

1. Remove all wires from power (including power wires), enter RESETTNG mode by applying **+VDC** to Power Wires and **BROWN-BLK** wire simultaneously for 2-4 seconds. Once in RESETTNG mode, the lightbar will display in single flash.
2. Select the desired Warning Mode for resetting by tapping **+VDC** to **BROWN-BLK** wire.
  - Single flash = Mode 1
  - Double flash = Mode 2
  - Triple flash = Mode 3
3. Once in desired Mode, apply **+VDC** to **BROWN-BLK** wire for 2-4 seconds to restore factory setting.
4. Exit RESETTNG mode by disconnecting all power or tapping **+VDC** to **BROWN-BLK** wire for over 7 seconds.

## SIREN SPEAKER WIRES (AVAILABLE WITH SPEAKER EDITION ONLY)

**WARNING:** Before wiring the speaker, please ensure that the amplifier (siren) is compatible with the speaker's impedance and power rating. Using incompatible amplifier may cause permanent damage to the speaker and/or the lightbar; such damage will not be covered under warranty.

Speaker Impedance: 11 ohm @ 1 KHz

Speaker Power Rating: 100 watt

1. Route speaker wires towards the siren unit (user-supplied).
2. Connect the speaker wires to the respective siren output.

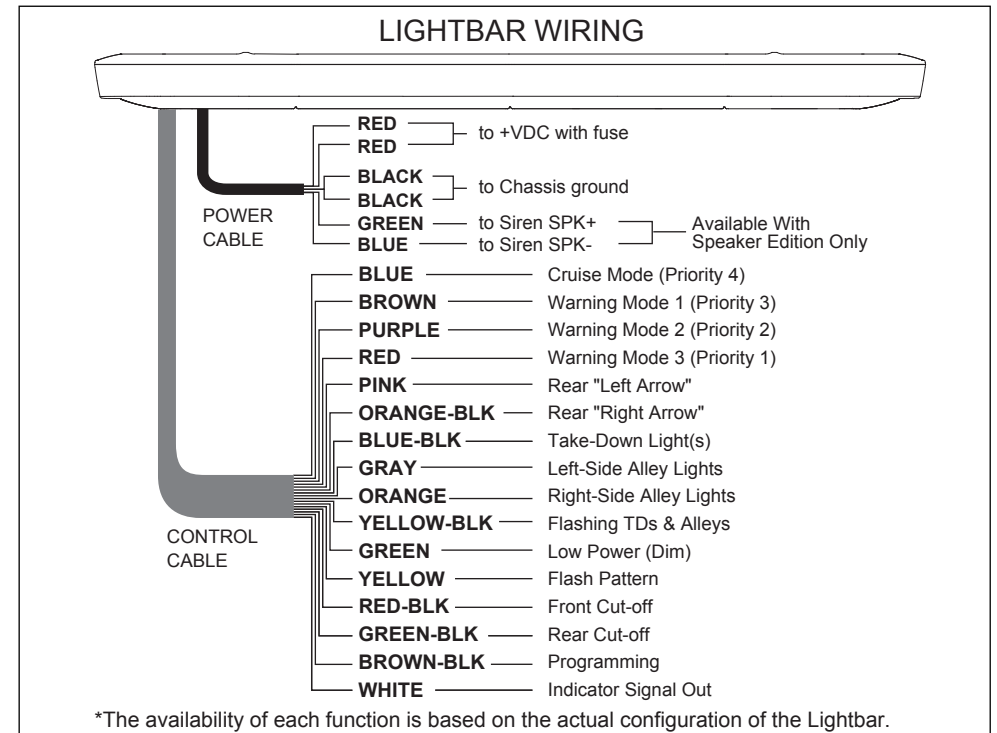
LP#	Lighthouse Pattern
1	Single Slow (split)
2	Single [2Hz] (split)
3	Single Fast (split)
4	Double [2Hz] (split)
5	Double (split)
6	Quad [2Hz] (split)
7	Ultra (split)
8	Single-Quad (split)
9	Single H/L (split)
10	Random
11	Off
12	Single Slow
13	Single [2Hz]
14	Single Fast
15	Double [2Hz]
16	Double
17	Quad [2Hz]
18	Ultra
19	Single-Quad
20	Single H/L

# Wire Operation Manual

LAS

## WIRING & FUNCTIONS (L1-SAE)

Proper installation of the product requires the installer to have a good understanding of automotive electronics, systems and procedures. Different applications may require different functions. For best workflow, it is highly recommended to determine and configure the required functions prior to Installation.



## POWER CABLE

1. Route Power Cable to the vehicle firewall towards the battery and follow the factory wiring harness through the firewall. It may be necessary to drill a hole in the firewall. Ensure that no component is damaged from the drilling and route the cable to the battery.
2. Splice 2 **RED** wires to form a single wire then install a fuse (user-supplied) to the end of the **RED** wire, before connecting it to the battery. (for suggested fuse rating, refer to the product spec.)
3. Splice 2 **BLACK** wires to form a single wire then connect the **BLACK** wire to the factory chassis-ground next to the battery.

**NOTE:** Ensure that all wires of the power cable are securely connected to the power source.

### ⚠ WARNING

- DO NOT USE THE POWER WIRE(S) AS THE LIGHTBAR ACTIVATION SWITCH. USE ONLY THE FUNCTION WIRE(S) TO SWITCH AND ACTIVATE.
- ENSURE THE POWER WIRE(S) ARE PROPERLY CONNECT BEFORE ACTIVATING ANY FUNCTION WIRE(S).
- MIS-CONNECTING THE WIRES AND SWITCH MAY CAUSE THE LIGHTBAR TO RESET TO ITS DEFAULT SETTING.

## CONTROL CABLE

1. Route Control Cable towards the dash area to a switch panel (user-supplied).
2. Connect the required wires to the switch panel.

## WARNING MODE 1, MODE 2 and MODE 3

1. In each Mode, there is a list of built-in flash pattern to choose from.  
To change flash pattern:
  - i. Activate the desired Warning Mode by applying +VDC to **BROWN, PURPLE, or RED** wire.
    - **BROWN** wire for Warning Mode 1.
    - **PURPLE** wire for Warning Mode 2.
    - **RED** wire for Warning Mode 3.
  - ii. While a Warning Mode is activated, tap +VDC to **YELLOW** wire:
    - a. Once to next pattern (refer to Flash Pattern chart).
    - b. Quick 3 times to FP#1.

FP#	Flash Pattern				
1	Random / Customized (Mode 3 Factory Pre-set)	6	Single [SAE] (Mode 1 & 2 Factory Pre-set)	11	Single-Quad
2	Double [2Hz]	7	Double [SAE]	12	Single H/L
3	Quad [2Hz]	8	Quad [SAE]	13	Steady
4	Single [2Hz]	9	Quint [SAE]	14	Half Steady-Half Double
5	Triple [2Hz]	10	Ultra [SAE]	15	Kit Scan

- NOTE:**
- a. Actual approval is based on the lighthouse configuration of the model ordered.
  - b. Flash Pattern #1 may be user-customized via PROGRAMING Mode, (refer to "PROGRAMMING" section).
  - c. For FP #1 pattern resetting, refer to "RESETTING" section.

2. Each Warning Mode may be set in one of the 9 Flash Groupings.  
To change the Lighthouse Flash Grouping:
  - i. Activate the desired Mode by applying +VDC to **BROWN, PURPLE or RED** wire.
  - ii. While a Warning Mode is activated, tap +VDC to **YELLOW** wire for 2-4 seconds to change to the next Flash Grouping. (refer to Warning Flash Group chart)

FG#	Warning Flash Grouping		
1	All Simultaneous (Mode 1 & 3 Factory Pre-set)	6	Left-Right Split [Front Only]
2	Left-Right Split (Mode 2 Factory Pre-set)	7	Left-Right Split [Rear Only]
3	Criss-Cross Split	8	All Simultaneous [Front Only]
4	Outside-In Split	9	All Simultaneous [Rear Only]
5	Side-by-Side Split		

## CRUISE MODE

Activate Cruise mode by applying +VDC to **BLUE** wire. All lighthoods will be activated in low power steady-burn.  
To change the number of lighthoods activate during the Cruise Mode, tap +VDC to **BROWN-BLK** wire while in Cruise Mode to scroll through the combinations.

## TRAFFIC ARROW

Activate Traffic Arrow function by applying +VDC to:

- **PINK** wire for Left Arrow.
- **ORANGE-BLK** wire for Right Arrow.
- Above 2 wires together for Center-Out Arrow.

To configure the Traffic Arrow flash pattern, tap +VDC to **YELLOW** wire:

- a. Once to next pattern.  
(refer to Traffic Arrow Pattern chart).
- b. Quick 3 times to TP#1.

TP#	Traffic Arrow Pattern
1	Sweep Single (Factory Pre-set)
2	Sweep Double
3	Sweep Triple
4	Sweep Single End-Double
5	Solid
6	Solid End-Double
7	Solid Chaser
8	Solid Fade
9	Blink Double
10	Blink Triple
11	Blink Solid

## TAKE-DOWN LIGHT

Activate Take-down Lighthouse(s) by applying +VDC to **BLUE-BLK** wire.

## ALLEY LIGHT

Activate Alley Lighthouse(s) by applying +VDC to

- **GRAY** wire for Left-Side Alley Light.
- **ORANGE** wire for Right-Side Alley Light.

## FLASHING TAKE-DOWN LIGHT & ALLEY LIGHT

Activate Flashing Take Down & Alley Lighthoods by applying +VDC to **YELLOW-BLK** wire.  
To configure the TDs and / or Alleys flash mode, tap +VDC to **YELLOW** wire:

- a. Once to next pattern.  
(refer to TDs & ALLEYS Flash Mode chart).
- b. Quick 3 times to TA#1.

TA#	TDs & ALLEYS Flash Mode
1	TDs & Alleys (Factory Pre-set)
2	Alleys Only
3	TDs Only

## FRONT & REAR CUT-OFF

While in Warning Mode, applying +VDC to

- **RED-BLK** wire to deactivate Front Warning Lighthoods.
- **GREEN-BLK** wire to deactivate Rear Warning Lighthoods.

## LOW POWER OPERATION / DIM FUNCTION

Activate warning lighthouse dimming function by continuously applying +VDC to **GREEN** wire.

## CONTROL PANEL SIGNAL INDICATOR

Connect **WHITE** wire to the display signal input of a compatible Control Panel to display current rear lighthouse activity.

## WIRE FUNCTION CUSTOMIZATION (USB CONFIGURATION)

All wire functions and settings may be re-configured and customized by connecting Lightbar with PC and using Configuration Software. (See USB CONFIGURATION MANUAL)