

WIRING SINGLE / DUAL COLOR

- RED** ————— to +VDC with rated fuse
(for correct fuse, refer to Fuse Rating chart)
- BLACK** ————— to Chassis ground
- ORANGE** ————— **[+]** Rear "Left Arrow" [P2] }
BLUE ————— **[+]** Rear "Right Arrow" [P2] } Rear "Center Out Arrow" [P1]
- GREEN** ————— **[+]** Warning Mode 2 [P3]
or **[+]** End-Flasher (See "FIRMWARE SELECTION" for End-Flasher Mode)
- BROWN** ————— **[+]** Warning Mode 1 [P4]
- YELLOW** ————— **[+]** Flash Pattern Selection / **[+]** Low Power Operation
- WHITE** ————— **[]** Control Panel Indicator Signal out / **[+]** Programming

NOTE: [P_x] = Precedence order, when more than 1 wire is activated at the same time, higher precedence wire will affect lower precedence wire. P1 being the highest priority.

POWER WIRES

- Route Power Wires to the vehicle firewall towards the battery and follow the factory wiring harness through the firewall. If drilling a hole is required, ensure that no component is damaged from the drilling.
- Install a fuse (user-supplied) to the end of the **RED** wire, and connect it to the battery. (for correct fuse, refer to Fuse Rating chart)
- 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.

CONTROL WIRES

- Route Control Wires towards the dash area to a switch panel (user-supplied).
- Connect the required wires to a controller (switch panel) or power source.

TRAFFIC ARROW

- Activate Traffic Arrow function by applying **+VDC** to:
 - ORANGE** wire for Left Arrow.
 - BLUE** wire for Right Arrow.
 - Above 2 wires together for Center-Out.

NOTE: If the stick is equipped with Dual Color lightheads, Traffic Arrow will display in Color 2.
- To change the Traffic Arrow flash pattern, tap **+VDC** to **YELLOW** wire:
 - quickly 1 time to next pattern. (refer to Traffic Arrow Patterns chart).
 - quickly 3 times to revert back to Traffic Arrow Pattern #1.

WARNING MODE 1 and MODE 2

Each Warning Mode is capable of storing / saving one flash pattern.

To change the flash pattern:

- Activate a warning Mode by applying **+VDC** to **BROWN**, or **GREEN** wire.
 - BROWN** wire for Warning Mode 1.
 - GREEN** wire for Warning Mode 2.
- Once a warning mode is activated, tap **+VDC** to **YELLOW** wire:
 - quick 1 time to next pattern (refer to Flash Pattern chart).
 - quickly 3 times to revert back to Pattern #1.

To set color mode (for Dual Color Models only):

- Disconnect all power, then apply **+VDC** to **BROWN** (or **GREEN**), **WHITE** and **RED** wire together for 3 seconds to enter color setting mode; the stick will display the current color mode for the activated warning mode.
- Tap **+VDC** to **WHITE** wire to scroll through the color modes:
 - Single Color 1
 - Single Color 2
 - Dual Color 1&2
 - Dual Color 2&1
- Save and exit color setting by disconnecting all power.

LOW POWER OPERATION (DIM FUNCTION)

Activate dimming function by continuously applying **+VDC** to **YELLOW** wire.

CONTROL PANEL SIGNAL INDICATOR

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

Fuse Rating		
No. of Lightheads	12VDC Model	24VDC Model
6-Head	5.0A	3.0A
8-Head	7.5A	4.0A
10-Head	10.0A	5.0A

Warning Patterns		
1	Random/Custom (see "PROGRAMMING")	SC
2	All Double [R65] [#]	SC
3	All Single [2HZ]	SC
4	All Triple [2HZ]	SC
5	All Quad [2HZ]	SC
6	All Steady / Scene	SC
7	All Single [SAE, CA13]	SC
8	All Double [SAE]	SC
9	All Mega	SC
10	All Ultra [SAE]	SC
11	All Single-Quad	SC
12	All Single H/L	SC
13	All Single-Triple-Quint	SC
14	Left-Right Single	SC
15	Left-Right Double	SC
16	Left-Right Mega	SC
17	Left-Right Ultra	SC
18	Side-by-Side Single	SC
19	Side-by-Side Double	SC
20	Side-by-Side Mega	SC
21	Side-by-Side Ultra	SC
22	Outside-in Single	SC
23	Outside-in Double	SC
24	Outside-in Mega	SC
25	Outside-in Ultra	SC
26	All Scan	SC
27	Split Scan	SC
28	Left-Right Single Mid	SC/DC
29	Left-Right Double-Single	SC/DC
30	Left-Right Triple-Single	SC/DC
31	Left-Right Quad-Single	SC/DC
32	Left-Right Single H/L II	SC/DC
33	Left-Right Double-Blast	SC/DC
34	Left-Right Swing I	SC/DC
35	Left-Right Triple-Blast	SC/DC
36	Left-Right Swing II	SC/DC
37	Left-Right Swing III	SC/DC
38	Left-Right Triple H/L	SC/DC
39	Side-by-Side Single Fast	SC/DC
40	Side-by-Side Quad Fast	SC/DC
41	Side-by-Side Double Fast	SC/DC
42	Side-by-Side Quad-Double	SC/DC
43	Composite Quad-Scan-Blast	SC/DC
44	Side-by-Side Mega X *	SC/DC
45	Composite All Scan-Split Scan	SC/DC
46	Composite Triple-Scan	SC/DC
47	Composite Single-Scan-Blast	SC/DC
48	Composite Solid Scan *	SC/DC
49	Composite Solid Scan-Mega *	SC/DC
50	Composite Solid Scan-Blast *	SC/DC

For dual color models:
SC = Single Color Mode; SC/DC = Single or Dual Color Mode
Actual ECE R65 approval is based on the p/n ordered.
* Patterns show full effect in dual color mode.

Traffic Arrow Patterns					
1	Sweep Single	C2	12	Sweep Single	C1
2	Sweep Double	C2	13	Sweep Double	C1
3	Sweep Triple	C2	14	Sweep Triple	C1
4	Sweep 1 End x2	C2	15	Sweep 1 End x2	C1
5	Solid	C2	16	Solid	C1
6	Solid End x2	C2	17	Solid End x2	C1
7	Solid Chaser	C2	18	Solid Chaser	C1
8	Solid Fade	C2	19	Solid Fade	C1
9	Blink Double	C2	20	Blink Double	C1
10	Blink Triple	C2	21	Blink Triple	C1
11	Blink Solid	C2	22	Blink Solid	C1
23	Sweep Single w/ Dual End Flasher	[2HZ]		C1&2	
24	Sweep Single w/ Dual End Flasher	[SAE]		C1&2	
25	Solid Chaser Dual Quick			C1&2	
26	Solid Chaser D			C1&2	
27	Solid Chaser Dual Slow			C1&2	

Single color model: Patterns 1~11 are available
Dual color model: C1 = Color 1; C2 = Color 2; C1&2 = Color 1&2

End Flasher Patterns			
1	Double [R65] [#] (All)	7	Double [2HZ] (Left Right)
2	Quad [2HZ] (All)	8	Quad [2HZ] (Left Right)
3	Single [2HZ] (All)	9	Single [2HZ] (Left Right)
4	Double [SAE] (All)	10	Double [SAE] (Left Right)
5	Quad [SAE] (All)	11	Quad [SAE] (Left Right)
6	Single [SAE] (All)	12	Single [SAE] (Left Right)

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▀ FIRMWARE SELECTION - END-FLASHER MODE

All units are pre-set to the firmware of its number of lightheads.
To change firmware to Traffic Arrow with End-Flashers:

1. Apply **+VDC** to **RED**, **WHITE** and **YELLOW** wires simultaneously for more than 3 seconds to enter FIRMWARE selection mode.
2. Once in FIRMWARE selection mode, the unit will display one of the following patterns.

6-Head Traffic Arrow



6-Head Traffic Arrow with End Flashers (Single Pair)



6-Head Traffic Arrow with End Flashers (Dual Pair)
not available



8-Head Traffic Arrow



8-Head Traffic Arrow with End Flashers (Single Pair)



8-Head Traffic Arrow with End Flashers (Dual Pair)



10-Head Traffic Arrow



10-Head Traffic Arrow with End Flashers (Single Pair)



10-Head Traffic Arrow with End Flashers (Dual Pair)



3. Momentarily apply **YELLOW** wire to **+VDC** to scroll through FIRMWARES.
4. Once desired FIRMWARE is selected, save and exit by disconnecting all power.

▀ Q-Lock™ MECHANISM & LIGHTHEAD SWAP

Replace / reconfigure lightheads quickly and efficiently using the patent pending Q-Lock coupling mechanism.

1. Use a flathead screwdriver, flip open the Q-Lock™ levers on both sides of the lighthead(s) to be removed / replaced.
2. Remove the lighthead by pulling it out slowly and evenly from both sides.
 - a. Inserting the flathead screwdriver blade into the side of the Q-Lock once flipped open to remove the first lighthead. Once (1) lighthead is removed, the remaining ones will loosen and dislodge without the use of the blade.
3. Carefully disconnect the lighthead wire from the wire harness, making sure to press the knob on the chassis side down and through the bridge on the lighthead side. **DO NOT ATTEMPT TO DISCONNECT BY PULLING THE WIRES.**
4. Connect the new lighthead. Note the direction and the orientation of the lighthead to ensure it matches the neighboring lightheads. (check wire-exit and lens marking)
5. Push the lighthead slowly and evenly into place.
6. Flip and close all Q-Lock™ levers.

