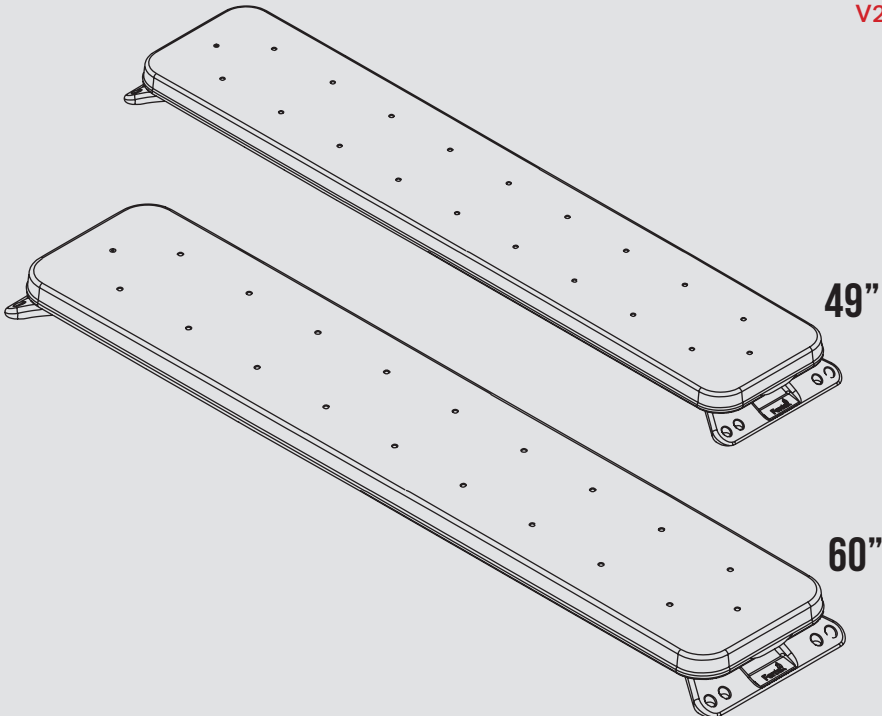


FUSION 49" AND 60" LIGHT BAR

Instruction Manual

V2.2



FUSION

Model # - L-4910
L-6010

This instruction manual serves as a guide for the **Fusion Lightbar**.

IMPORTANT! Please read through all provided instructions and any listed warnings in regards to product use.



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Safety Regulations	3
Warranty	3
Service after Expiration.....	3
Equipment Dimensions	4
Wiring and Function	5
Power Installation	6
Installing Brackets	7
Bracket Options & Vehicle Models	8
Flash Pattern List	9
Flash Pattern List: Cruise Mode	11

Safety Regulations

The following provides all the information necessary to safely operate the previously listed products of Feniex Industries, Inc. Please read this manual thoroughly before installing or operating your new product in order to prevent any damage or injury. Failure to follow the listed instructions in this manual may result in damage to your products or personal injury.

- Proper installation of this product requires good knowledge of automotive systems, electronics and procedures.
- Please guarantee all vital components of the vehicle are not in danger of being damaged by drilling holes necessary for installation. Check all sides of the mounting surface before drilling any holes into the vehicle.
- Do not install this product in any way that interferes with the deployment of the air bag. Doing so may damage the effectiveness of the air bag and can lead to serious personal and vehicle injury. The installer will assume full responsibility of proper installation of the new unit.
- Please clean the mounting surface before installation of the unit when using tape, brackets, magnet, Velcro or suction cups.
- The product's ground wire must be connected directly to the Negative (-) battery post for effective use of the unit. Please follow all wiring guidelines provided to guarantee long lifespan and productivity. Failing to follow these instructions may result in damage to the product.

Warranty

Feniex Industries, Inc. warrants to the original purchaser that the product shall be free from defects in material and workmanship for 5 years from the date of purchase for all LED products. Feniex Industries warranties speakers, sirens, flashers, and controllers for 2 years.

If a warranty problem occurs, please contact customer support at 1.800.615.8350 or visit the web site at www.Feniex.com. If the product needs to be returned for repair or replacement, call our customer support line to receive a return merchandise authorization number.

Operational times are from 10 a.m. to 5 p.m. central time, Monday through Friday. Please do not send in product without contacting support first for a RMA number.

Service After Expiration

Feniex Industries will still provide service for all products after expiration of the warranty. For any issues, call the customer support line. In some instances it may be necessary for the product to be shipped, freight prepaid and insured for loss or damage to Feniex headquarters.

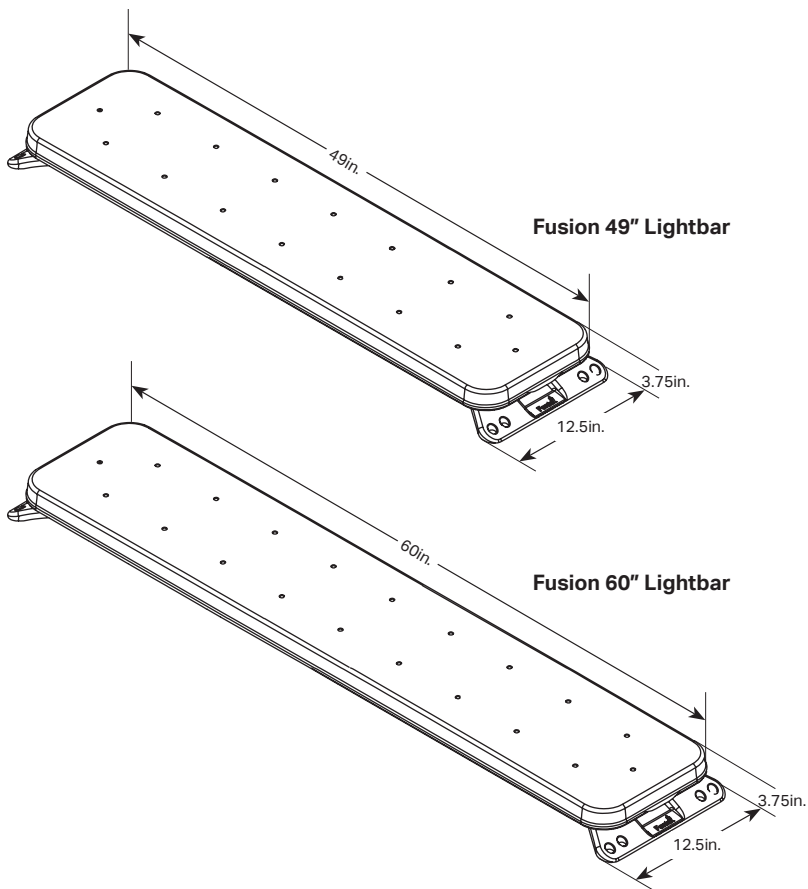
Warning! Utilizing non-factory screws and mounting brackets may result in loss of warranty coverage.

Copyright

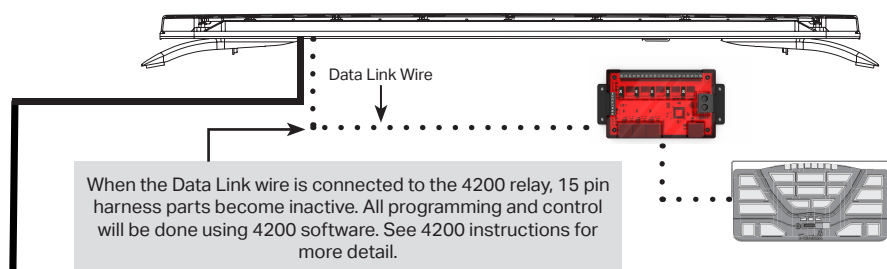
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Please Note! Brackets purchased separately (see page 8.)



Fusion System Specifications:

Wire Color: Fusion Function: Function Description:

Black	Mode 1*	On wire
Red	Mode 2**	On wire, Overrides Mode 1
Orange	Mode 3	On wire, Overrides Mode 1 and Mode 2
Green	Cruise Mode	Activates side modules at 10% Brightness
Blue	Takedown	Overrides Flashing
Red/Black	Left Alley	Overrides Flashing
White	Right Alley	Overrides Flashing
Orange/Black	Takedown/Alley Flashing	Displays rapid Flash Pattern

Flood Patterns:
Front, Front Side, Front Side Arrow, Side Rear, Rear

Green/Black	Flood	
Blue/Black	Dim	Dims bar to 10% Brightness
White/Black	Arrow Left	Arrow Left
Black/White	Arrow Right	Arrow Right
White/Black + Black/White	Center Out	Connect these 2 wires to display center out.
Red/White	Pattern Changer	Cycles through 48 flash patterns
Green/White	Rear Cut Off*	Turns off all rear facing modules and rear corners
Blue/White	Front Cut Off*	Turns off all front facing modules

Note! To change flash patterns, arrow pattern or flood option momentarily tap the **Red/White wire** to 12V (+).

* When the bar is configured for **Stop, Tail, Turn**, the **Black wire** becomes **Taillight Activation** instead of **Mode 1**. The **Green/White wire** becomes **Left Break Light Activation**, and the **Blue/White wire** becomes **Right Break Light Activation**.

** When the bar is configured for **Work Light**, the **Red wire** becomes **Work Light Activation** instead of **Mode 2**.

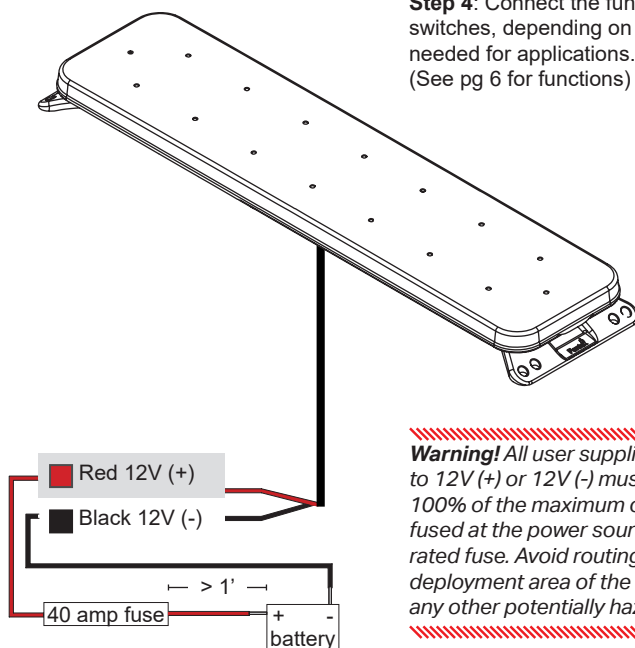
Power Cable Wiring:

Step 1: Install a 40 Amp fuse (customer supplied) to the end of the red, 12 AWG wire of the wire harness assembly. Do not use a circuit breaker or fusible link. Do not insert the fuse until the opposite end of the fuse holder is connected to the vehicle battery.

Step 2: Connect the opposite end of the fuse to the 12V (+) terminal of the battery. Do not use more than 1 foot of wire between the fuse and the battery terminal to ensure wire protection.

Step 3: Connect the Black, 12 AWG wire to the vehicle chassis ground.

Step 4: Connect the function wires to switches, depending on the functions needed for applications. (See pg 6 for functions)



Warning! All user supplied wires connecting to 12V (+) or 12V (-) must be sized to supply 100% of the maximum current and properly fused at the power source with the correctly rated fuse. Avoid routing wires in the deployment area of the vehicle air bag or any other potentially hazardous locations.

Installing a Hook Bracket

Step 1: Remove the hex bolt from its packaging and slide the bolt through the hook bracket hole. See figure A.

Step 2: Using a socket wrench and the hex bolt, loosely secure the hook bracket to the threaded hole in foot bracket. Repeat on the other side of the lightbar so both sides have the hook bracket secured. See figure B.

Step 3: Place the lightbar with the attached hook brackets on the vehicle. Ensure the hook bracket is up right and seated correctly. See figure C.

Step 4: Secure and tighten the bracket using a socket wrench on each side of the vehicle until the bar is snugly mounted. Use the included lock nut as a jam nut for extra security. Ensure the vehicle's door will close without any interference.

Important! Do not overtighten the hex bolts. Do not exceed 165 in. lb. The use of blue thread locker is suggested.

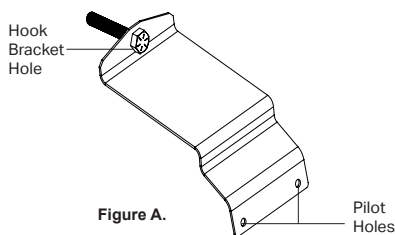


Figure A.

Important! Use the "Hook Kit Compatibility Chart" for more information online.

Step 5: Drill and secure the bracket to the vehicle with self-tapping screws, using the two pilot holes on the bottom of the hook bracket as a guide.

Step 6: Once the bar is secure, drill a one inch hole to route the wire harness through the vehicle and then seal the hole with silicone. Ensure that wires are protected from rough edges using a rubber wire grommet.

Warning! Utilizing non-factory hardware and mounting brackets may result in loss of warranty coverage.

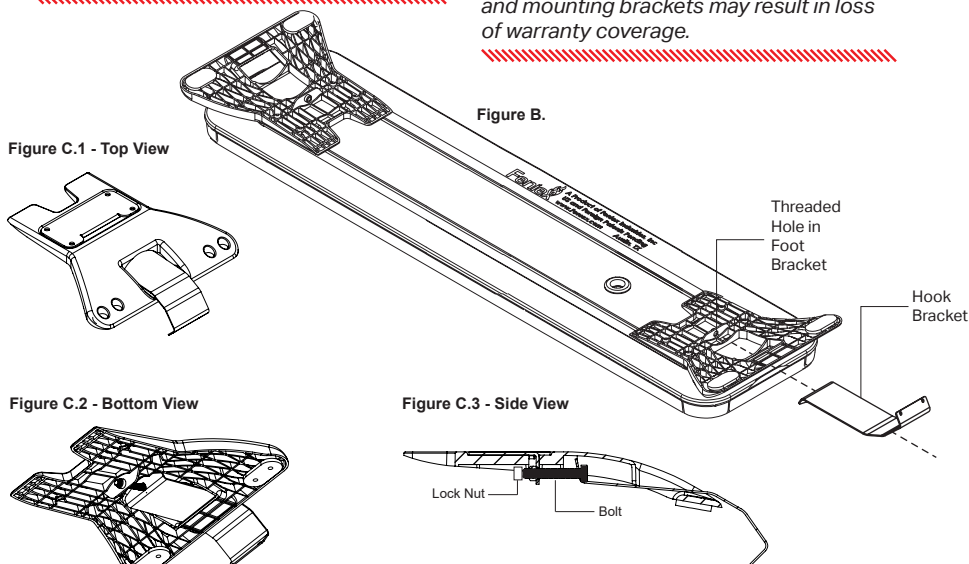


Figure B.

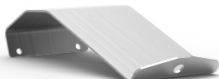
Figure C.1 - Top View

Figure C.2 - Bottom View

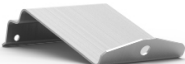
Figure C.3 - Side View

LIGHT BAR BRACKETS

FN-5316



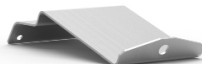
FN-5216



FN-5116



FN-5016



Light bar Hook Brackets

Model:	Part #	Fixed Price
Avalanche	FN-5016	\$25
Caprice	FN-5316	\$25
Colorado / Canyon	FN-5116	\$25
2500 Heavy Duty	FN-5016	\$25
Impala	FN-5316	\$25
Malibu	FN-5316	\$25
Silverado / Sierra	FN-5316	\$25
Tahoe / Yukon	FN-5016	\$25
Tahoe 2015+	FN-5316	\$25
Trailblazer / Envoy	FN-5016	\$25
Suburban / Yukon XL	FN-5016	\$25
Charger	FN-5316	\$25
Dakota	FN-5116	\$25
Durango	FN-5116	\$25
Ram 1500, 2500 & 3500	FN-5316	\$25
Crown Victoria	FN-5216	\$25
Escape	FN-5316	\$25
Excursion	FN-5316	\$25
Expedition	FN-5316	\$25
Explorer	FN-5316	\$25
Explorer / Police Interceptor	FN-5316	\$25
F-150	FN-5316	\$25
F250, F350, F450	FN-5316	\$25
Fusion	FN-5316	\$25
Ranger	FN-5016	\$25
Taurus / Police Interceptor	FN-5316	\$25
Universal	FN-5316	\$25

FN-9816-M-H



FN-9916-M-P



FN-9927-AF



Light bar Brackets

Make/Model: Other	Part #	Fixed Price
49" & 60" Headache Mount	FN-9816-M-H	\$25
49" & 60" Permanent Mount	FN-9916-M-P	\$25
Adjustable Foot Mount	FN-9927-AF	\$99

*Sold in pairs.

The flash patterns are listed in consecutive order of appearance. To select a certain flash pattern, start with a recognizable pattern and use the pattern changer wire to cycle through

Single Color Patterns: Fusion

1. Cluster
2. Attack
3. Night Ride
4. Half-Half Slow
5. Half-Half Fast
6. One One Slow
7. One One Fast
8. Two Two Slow
9. Two Two Fast
10. All On Slow
11. All On Fast
12. In Out Slow
13. In Out Fast
14. Combo (4-6-8-10-12)
15. Combo (5-7-9-11-13)
16. Combo (4-5-6-7-8-9-10-11-12-13)

The flash patterns are listed in consecutive order of appearance. To select a certain flash pattern, start with a recognizable pattern and use the pattern changer wire to cycle through patterns.

Dual Color Patterns: Fusion

Color 1:

1.	Cluster
2.	Attack
3.	Night Ride
4.	Half-Half Slow
5.	Half-Half Fast
6.	One One Slow
7.	One One Fast
8.	Two Two Slow
9.	Two Two Fast
10.	All On Slow
11.	All On Fast
12.	In Out Slow
13.	In Out Fast
14.	Combo (4-6-8-10-12)
15.	Combo (5-7-9-11-13)
16.	Combo (4-5-6-7-8-9-10-11-12-13)

Color 2:

18.	Cluster
19.	Attack
20.	Night Ride
21.	Half-Half Slow
22.	Half-Half Fast
23.	One One Slow
24.	One One Fast
25.	Two Two Slow
26.	Two Two Fast
27.	All On Slow
28.	All On Fast
29.	In Out Slow
30.	In Out Fast
31.	Combo (4-6-8-10-12)
32.	Combo (5-7-9-11-13)
33.	Combo (4-5-6-7-8-9-10-11-12-13)

Color 1 & 2:

34.	Cluster
35.	Attack
36.	Night Ride
37.	Half-Half Slow
38.	Half-Half Fast
39.	One One Slow
40.	One One Fast
41.	Two Two Slow
42.	Two Two Fast
43.	All On Slow
44.	All On Fast
45.	In Out Slow
46.	In Out Fast
47.	Combo (4-6-8-10-12)
48.	Combo (5-7-9-11-13)
49.	Combo (4-5-6-7-8-9-10-11-12-13)

Apply 12V+ to the Cruise Mode function wire and tap the Cruise Mode function wire to pattern changer to cycle through the Flash patterns.

Cruise Mode Flash Patterns:

1. All on
2. Slow both sides flashing
3. Fast both sides flashing
4. Slow flashing alternating sides
5. Fast flashing alternating sides
6. Slow corners alternating flashing
7. Fast corners alternating flashing
8. Attack pattern