

FUSION[®]

BRIGHT MADE BRIGHTER



FDSM-40

FDSM-180

FUSION DUAL STACK INSTRUCTION MANUAL



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SAFETY REGULATIONS & WARRANTY



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 & 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 & 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 & 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 & workmanship for 5 years from the date of purchase for all LED products. Feniex Industries warranties speakers, sirens, flashers, & controllers for 2 years.

If warranty service is needed, please contact customer support:

Phone: 1.800.615.8350

Web Site: www.Feniex.com/support

Email: techsupport@feniex.com

If the product needs to be returned for repair or replacement, contact our customer service team (using any method listed above) to receive a Return Merchandise Authorization (RMA) number. Operational times are from 9 a.m. to 6 p.m. central time, Monday through Friday.

 Please do not send in product without contacting support first for a Return Merchandise Authorization (RMA) number.

CONDITIONS

Feniex Industries, Inc. will not be held responsible for any costs associated with equipment removal and/or re-installation resulting from a warranty claim. It is the sole responsibility of the party initiating a warranty claim to pay shipping charges associated with returning a product to Feniex Industries for repair or replacement.

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.

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

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SPECIFICATIONS, BOX CONTENTS & FLASH PATTERNS



BOX CONTENTS

Fusion Surface Mount	x2
Bezel	x1
Screws	x2
Protective Pad	x1

SYSTEM SPECIFICATIONS

Input Power	12 VDC
Current Draw	1.5A
External Fuse	125% of Circuit Load
Colors	R, A, B, W, G, RW, BW, AW, RB, RA, BA
SAE Certification	J595, CT13, SAE J1113-11
Flash Patterns	11 [Single Color], 40 [Dual Color]
Dimensions	2.25" H x 5.22" L x 0.88" W
Light Spread	40° or 180° Interchangeable Optics
Warranty	5 Years

FLASH PATTERNS: SINGLE COLOR

- | | |
|-----------------|-----------------|
| 1. Single Slow | 7. Triple Slow |
| 2. Single Fast | 8. Triple Fast |
| 3. Single Combo | 9. Triple Combo |
| 4. Double Slow | 10. Brake Pop |
| 5. Double Fast | 11. Steady On |
| 6. Double Combo | |

FLASH PATTERNS: DUAL COLOR

- | | |
|--|---|
| 1. Color 1- Single Slow | 21. Color 1&2 / No Off Time- Single Combo |
| 2. Color 1- Single Fast | 22. Color 1&2 / No Off Time- Double Slow |
| 3. Color 1- Single Combo | 23. Color 1&2 / No Off Time- Double Fast |
| 4. Color 1- Double Slow | 24. Color 1&2 / No Off Time- Double Combo |
| 5. Color 1- Double Fast | 25. Color 1&2 / No Off Time- Triple Slow |
| 6. Color 1- Double Combo | 26. Color 1&2 / No Off Time- Triple Fast |
| 7. Color 1- Triple Slow | 27. Color 1&2 / No Off Time- Triple Combo |
| 8. Color 1- Triple Fast | 28. Color 1&2 /Off Time- Single Slow |
| 9. Color 1- Triple Combo | 29. Color 1&2 /Off Time- Single Fast |
| 10. Color 2- Single Slow | 30. Color 1&2 /Off Time- Single Combo |
| 11. Color 2- Single Fast | 31. Color 1&2 /Off Time- Double Slow |
| 12. Color 2- Single Combo | 32. Color 1&2 /Off Time- Double Fast |
| 13. Color 2- Double Slow | 33. Color 1&2 /Off Time- Double Combo |
| 14. Color 2- Double Fast | 34. Color 1&2 /Off Time- Triple Slow |
| 15. Color 2- Double Combo | 35. Color 1&2 /Off Time- Triple Fast |
| 16. Color 2- Triple Slow | 36. Color 1&2 /Off Time- Triple Combo |
| 17. Color 2- Triple Fast | 37. Color 1- Brake Pop |
| 18. Color 2- Triple Combo | 38. Color 2- Brake Pop |
| 19. Color 1&2 / No Off Time- Single Slow | 39. Color 1- Steady On |
| 20. Color 1&2 / No Off Time- Single Fast | 40. Color 2- Steady On |

WIRING DIAGRAM

COLOR	FUNCTION	POLARITY	CONNECTION
■ Red	Mode 1	12v (+)	Latching Switch
■ Yellow	Mode 2	12v (+)	Latching Switch
■ Black	Ground	12v (-)	Chasis Ground
■ Blue	Pattern	12v (-)	Momentary Switch

WIRING DIAGRAM AND INSTRUCTIONS:

1. To activate the unit, extend the red (+) or yellow (+) wire to a 12V post. Extend the black (-) wire to the ground post of the vehicle's battery. Please note that mode 2 overrides mode 1.

2. Momentarily connect the blue wire to the Ground (12V-) to cycle through the flash patterns.

3. Synchronization: To Sync two or more light heads together:

A. Apply 12V+ power to the red or yellow (+) wire and apply 12V- to black wire to power the unit on.

B. Cycle through all patterns by tapping the blue (pattern select) wire to the activated black ground wire until the desired pattern is selected.

C. Connect one of the same colored mode wires (red or yellow) of the two light heads together; connect the black wires of the light heads together and then connect the blue wires of the light heads together.

ALTERNATE LIGHT HEADS:

D. Follow steps A-B.

E. For the light heads to alternate, one light head must be set as master and the other as slave on the mode wire intended for use. To do so, hold the blue (flash pattern changer) wire to ground for 3 seconds. If all LEDs turn on, this indicates master mode. If no LEDs turn on, this indicates slave mode.

F. Follow step C. Change patterns by tapping the blue wire to the activated black ground wire.