

# WHELEN®

ENGINEERING COMPANY INC.

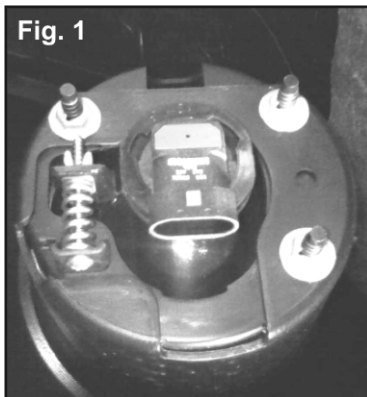
51 Winthrop Road,  
Chester, Connecticut 06412-0684  
Phone: (860) 526-9504  
Fax: (860) 526-4078

## Installation Guide: Model FEFP11\*\* LED Fog Light 2011 Ford Expedition

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Canadian Sales e-mail: [Canadiansales@whelen.com](mailto:Canadiansales@whelen.com)  
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### Installation / 2011 Ford Expedition:

1. Unplug the existing fog light from the wiring harness and remove it from the vehicle (Fig. 1). If the vehicle is not equipped with fog lights, it should have a plug where the fog light would be. To remove the rubber plug from this location, disengage the plug allowing it to be pushed out towards the front of the vehicle.
2. Insert the LED fog light into the hole that the existing fog light occupied. Because of the arrangement of the existing mounting holes, the lighthouse can only be mounted in one position. **NOTE: Do not attempt to disassemble the light to orient the lighthoods differently. This will break the waterproof seals.**
3. Mount the LED fog light using the 3 existing holes in the vehicle. Secure the fog light using the supplied mounting hardware.



Connect the wires to the existing fog light wiring. LED wire designations:

ORG, BLU, WHT, GRN or RED . . . . . +VBAT for solid color lighthoods  
RED/WHT . . . . . +VBAT for different color split lighthoods  
WHT/RED . . . . . +VBAT for same color split lighthoods.  
BLK. . . . . Ground (-)  
WHT/VIO. . . . . Scan-Lock™  
GREY . . . SYNC / Must connect to other SYNC wires to run SYNC feature

**Operation:** The LED fog light features Scan-Lock™ flash pattern selection and SYNChronization capabilities. These two functions will operate as follows:

#### Scan-Lock™ (White/Violet):

**TO CHANGE PATTERNS:** To cycle forward to the next available pattern, apply +VBAT to the WHT/VIO wire for less than 1 second and release. To cycle back to the previous pattern, apply +VBAT to the WHT/VIO wire for more than 1 second and release.

**TO CHANGE THE DEFAULT PATTERN:** When the desired pattern is displayed, allow it to run for more than 5 seconds. The lighthouse will now display this pattern when initially activated.

**TO RESTORE THE FACTORY DEFAULT PATTERN:** With the power to the lighthouse off, apply +VBAT to the WHT/VIO wire. With the WHT/VIO wire still activated, turn power to the lighthouse on. The factory default pattern should now be displayed.

*Use a normally open momentary switch to control Scan-Lock™.*

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Form No.14443 (121410)

For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)

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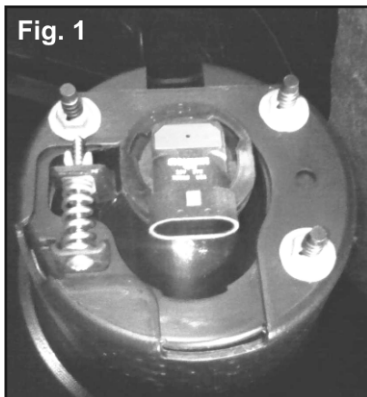
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**SYNC (Grey):**

SYNC lightheads have a special set of flash patterns, with each pattern available in two modes; Phase 1 and Phase 2. All lightheads configured to display the Phase 1 mode of a given pattern will flash simultaneously. Any lightheads configured to display the Phase 2 mode of a pattern, will alternate with any Phase 1 lightheads of the same pattern.

To sync two flashing LED fog lights, configure both lights to display the same Phase 1 pattern. With the power off, connect the GRAY wires from each lighthead together. When the lightheads are activated, their patterns will be synchronized. To configure the two lightheads to alternate their patterns, advance the pattern of either lighthead to the Phase 2 mode of the current pattern.

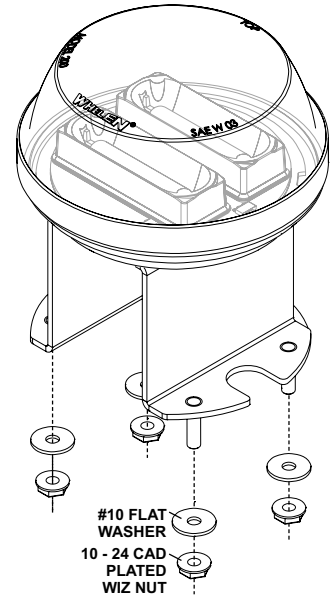
**IMPORTANT WARNING!**  
**CAUTION! DO NOT LOOK DIRECTLY AT THESE LED'S WHILE THEY ARE ON. MOMENTARY BLINDNESS AND/OR EYE DAMAGE COULD RESULT!**

- Available Patterns:**
- |                                 |                                 |                                |
|---------------------------------|---------------------------------|--------------------------------|
| 1. SignalAlert™ ..... Phase 1   | 7. SingleFlash 75 ..... Phase 1 | 14. PingPong™ 75 ..... Phase 2 |
| 2. SignalAlert™ ..... Phase 2   | 8. SingleFlash 75 ..... Phase 2 | 15. SingleFlash 60             |
| 3. CometFlash® ..... Phase 1    | 9. ComAlert™ 75 ..... Phase 1   | 16. SingleFlash 90             |
| 4. CometFlash® ..... Phase 2    | 10. ComAlert™ 75 ..... Phase 2  | 17. SingleFlash 120            |
| 5. DoubleFlash 75 ..... Phase 1 | 11. LongBurst™ 75 ..... Phase 1 | 18. SingleFlash 300            |
| 6. DoubleFlash 75 ..... Phase 2 | 12. LongBurst™ 75 ..... Phase 2 | 19. DoubleFlash 150            |
|                                 | 13. PingPong™ 75 ..... Phase 1  | 20. ComAlert™ 150              |

**WARNING!** All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and **FUSED** at the battery to carry that load. **DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!**

**WARNING!** It is the responsibility of the installation technician to make sure that the installation and operation of this product will not interfere with or compromise the operation or efficiency of any vehicle equipment!

**IMPORTANT!** Before returning the vehicle to active service, visually confirm the proper operation of this product, as well as all vehicle components/equipment.



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|---------------------------------|---------------------------------|--------------------------------|
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| 3. CometFlash® ..... Phase 1    | 9. ComAlert™ 75 ..... Phase 1   | 16. SingleFlash 90             |
| 4. CometFlash® ..... Phase 2    | 10. ComAlert™ 75 ..... Phase 2  | 17. SingleFlash 120            |
| 5. DoubleFlash 75 ..... Phase 1 | 11. LongBurst™ 75 ..... Phase 1 | 18. SingleFlash 300            |
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