

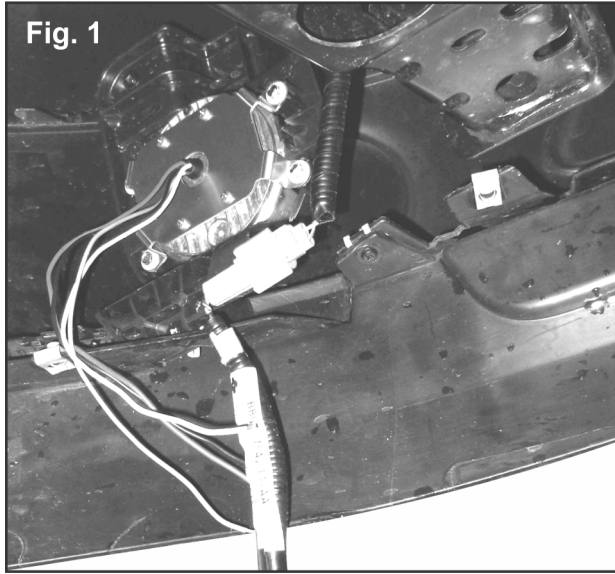
# WHELEN<sup>®</sup>

ENGINEERING COMPANY INC.

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**Installation Guide:  
3.5" Round Lighthead Mounting Bracket  
(Fog Light Replacement)  
2011 - 2012 Ford Explorer**



**Installation / 2011 - 2012 Explorer:**

1. If your vehicle is equipped with fog lights, disconnect and remove the fog lights following manufacturers instructions.
2. Mount the Driving/Warning lights (Fig. 1) using the existing mounting hardware from the vehicle fog lights. **NOTE: 2012 Models have 2 plastic tabs on either side of the mounting location that must be removed before mounting.**
3. Secure the Driving/Warning lights and extend the wires to their connections.

**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**

*Follow these wire designations to connect the lighthead wires:*

WIRE	Function
LED Color .....	+VBAT for Warning Lights
WHITE .....	+VBAT for Driving Lights
BLACK .....	Ground (-)
WHT/VIO.....	Scan-Lock™

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Form No.14548A (031612)

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

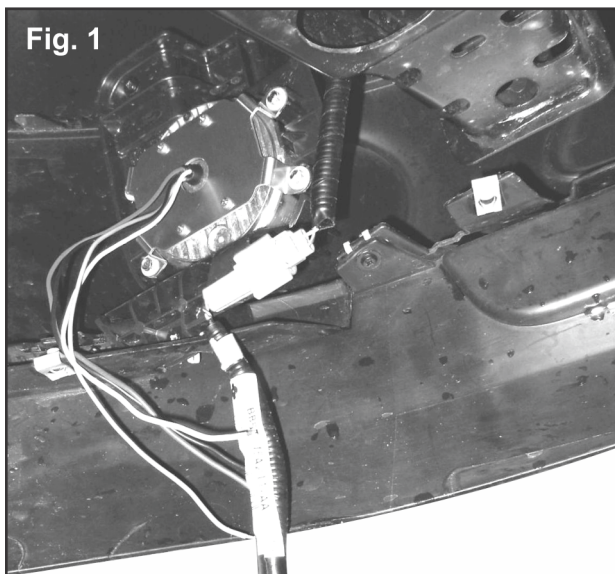
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## Operation:

**Warning Light Input - RED/WHT wire (RED/BLUE light) or BLUE wire (BLUE light) or RED wire (RED light): Positive voltage for Warning Lights**

Apply positive voltage to this wire to activate the warning lights. If this wire is activated, the driving lights (White LEDs) will not operate.

**Driving Light Input - WHITE Wire: Positive voltage for Driving Lights**

Apply positive voltage to this wire to activate the driving lights. If the warning lights are activated, this wire will not work. If this wire is activated and you engage the warning lights, the driving lights cut out automatically.

**Flash Pattern Selection (Scan-Lock™) - WHITE-VIOLET wire:**

**With the Warning Lights activated: TO CYCLE FORWARD TO THE NEXT 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.

**ALT = Alternating:** With a RED/BLUE light, RED will alternate with BLUE in the chosen pattern. With a RED or BLUE light, RED or BLUE will alternate from top to bottom in the chosen pattern. **SIM = Simultaneous:** With a RED/BLUE light, both RED and BLUE will light up simultaneously in the chosen pattern. With an all RED or all BLUE light, the whole light will light up RED or BLUE in the chosen pattern. **BOLD TYPE = California Title 13 compliant.**

### Available Flash Patterns:

- |                        |                         |                          |                          |                                 |
|------------------------|-------------------------|--------------------------|--------------------------|---------------------------------|
| 1. SignalAlert™ 75 ALT | 11. LongBurst™ 75 ALT   | 22. SingleFlash 300 ALT  | 33. ModuFlash™ SIM       | 44. ActionFlash™ SF60/120 ALT   |
| 2. SignalAlert™ 75 SIM | 12. LongBurst™ 75 SIM   | 23. SingleFlash 300 SIM  | 34. DoubleFlash 120 ALT  | 45. ActionFlash™ SF60/120 SIM   |
| 3. CometFlash® 75 ALT  | 13. PingPong™ 75 ALT    | 24. DoubleFlash 150 ALT  | 35. DoubleFlash 120 SIM  | 46. ActionFlash™ SF120/TF75 ALT |
| 4. CometFlash® 75 SIM  | 14. PingPong™ 75 SIM    | 25. DoubleFlash 150 SIM  | 36. PingPong™ 120 ALT    | 47. ActionFlash™ SF120/TF75 SIM |
| 5. DoubleFlash 75 ALT  | 15. SSNF 75             | 26. ComAlert™ 150 ALT    | 37. PingPong™ 120 SIM    | 48. CalScan™                    |
| 6. DoubleFlash 75 SIM  | 16. SingleFlash 60 ALT  | 27. ComAlert™ 150 SIM    | 38. TripleFlash™ 75 ALT  | 49. ActionScan™                 |
| 7. SingleFlash 75 ALT  | 17. SingleFlash 60 SIM  | 28. ActionFlash™ 50 ALT  | 39. TripleFlash™ 75 SIM  | 50. STEADY                      |
| 8. SingleFlash 75 SIM  | 18. SingleFlash 90 ALT  | 29. ActionFlash™ 50 SIM  | 40. TripleFlash™ 120 ALT |                                 |
| 9. ComAlert™ 75 ALT    | 19. SingleFlash 90 SIM  | 30. ActionFlash™ 150 ALT | 41. TripleFlash™ 120 SIM |                                 |
| 10. ComAlert™ 75 SIM   | 20. SingleFlash 120 ALT | 31. ActionFlash™ 150 SIM | 42. SignalAlert™ CAL ALT |                                 |
|                        | 21. SingleFlash 120 SIM | 32. ModuFlash™ ALT       | 43. SignalAlert™ CAL SIM |                                 |

## Operation:

**Warning Light Input - RED/WHT wire (RED/BLUE light) or BLUE wire (BLUE light) or RED wire (RED light): Positive voltage for Warning Lights**

Apply positive voltage to this wire to activate the warning lights. If this wire is activated, the driving lights (White LEDs) will not operate.

**Driving Light Input - WHITE Wire: Positive voltage for Driving Lights**

Apply positive voltage to this wire to activate the driving lights. If the warning lights are activated, this wire will not work. If this wire is activated and you engage the warning lights, the driving lights cut out automatically.

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|                        | 21. SingleFlash 120 SIM | 32. ModuFlash™ ALT       | 43. SignalAlert™ CAL SIM |                                 |

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

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

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

**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 WARNING!

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

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