

WHELEN[®]

ENGINEERING COMPANY INC.

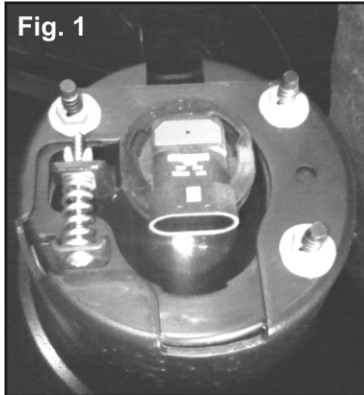
51 Winthrop Road,
Chester, Connecticut 06412-0684
Phone: (860) 526-9504
Fax: (860) 526-4078

Installation Guide:
Super-LED[®] Driving/Warning Light
Models FDFP11RR, FDFP11BR, FDFP11JR
2011 Ford Expedition

Internet: www.whelen.com
Sales e-mail: autosale@whelen.com
Canadian Sales e-mail: Canadiansales@whelen.com
Customer Service e-mail: custserv@whelen.com

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 lighthead can only be mounted in one position. **NOTE: Do not attempt to disassemble the light to orient the lightheads differently. This will break the waterproof seals.**
3. Mount the Driving/Warning light using the 3 existing holes in the vehicle. Secure the fog light using the supplied mounting hardware.



Follow these wire designations to connect the lighthead wires:

WIRE	Function
LED Color	+VBAT for Color Lighthead (Fuse @ 3 Amps)
WHITE	+VBAT for Driving Light (Fuse @ 3 Amps)
BLACK	Ground (-)
WHT/VIO	Scan-Lock™ (Fuse @ 1 Amp)

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.

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.

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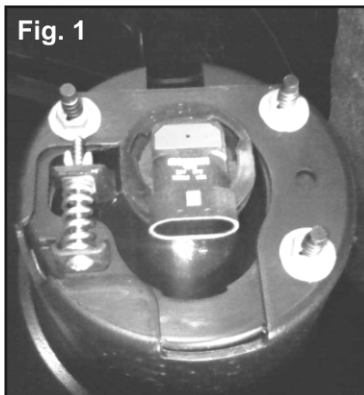
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Operation:

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.

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.

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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™ operation. Available flash patterns are listed below.

IMPORTANT WARNING!

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

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!**

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. **Flash Patterns: BOLD TYPE = California Title 13 compliant.**

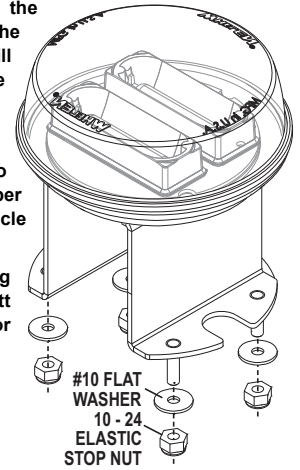
Available Flash Patterns:

- | | | | | |
|------------------------------|--------------------------------|--------------------------|---------------------------------|--|
| 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 | |

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.

IMPORTANT! Whelen Engineering recommends the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.



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.

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Available Flash Patterns:

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| 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™ |
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