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Safety First: This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.
- Failure to use specified installation parts and/or hardware will void the product warranty!
- If mounting this product requires drilling holes, the installer **MUST** be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.
- Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.
- For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the **NEGATIVE (-)** battery post.
- If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.
- Do not attempt to activate or control this device in a hazardous driving situation.
- This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.
- Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.
- **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!**
- **FAILURE TO FOLLOW THESE PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

Mounting:

1. Mark the location of the 2 mounting holes onto the mounting surface using the dimensions shown, or use the flange as a template. Always check behind the mounting surface to be sure you will not harm other vehicle components.
2. Drill the 2 mounting holes using a drill sized for a #6 sheet metal screw, then drill the 7/8" wire access hole as shown. Deburr this hole before continuing.
3. Feed wires through wire hole then secure Strip-Lite™ to mounting surface as shown.

IMPORTANT! Proper installation requires the vent membrane to be located above the horizontal centerline of the installed Strip-Lite!

Wiring (Note: All switches and fuses are customer supplied):

Ground (BLK) - Extend BLK wire to Chassis Ground.

Color 1 (LED COLOR) - Extend this wire to +12VDC via an SP/ST switch (Fuse at 3 amps).

Color 2 (LED COLOR) - Extend this wire to +12VDC via an SP/ST switch (Fuse at 3 amps).

Scan-Lock™ (WHT/VIO) - Extend WHT/VIO wire to +12VDC via a momentary switch (fused@1A). Refer to the Scan-Lock section for operational information.

SYNC (GREY) - To SYNC 2 lighthead, configure both lighthead to display the same Phase 1 pattern. Turn power off and connect the GREY wire from each lighthead together. Activate the lighthead and their patterns will be synchronized. To configure 2 lighthead to alternate their patterns, advance either lighthead to Phase 2 of the current pattern.

Scan-Lock:

Pattern Buffer Note: This model features 3 pattern buffers; Color 1, Color 2 and Colors 1&2 (activated simultaneously). Each buffer will display its own flash pattern when activated. To change the flash pattern for any of the three pattern buffers, that buffer must be active.

To advance to next pattern: Apply +12VDC to WHT/VIO wire for less than 1 second and release.

To cycle back to previous pattern: Apply +12VDC to WHT/VIO wire for over 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 lighthead will now display this pattern when initially activated.

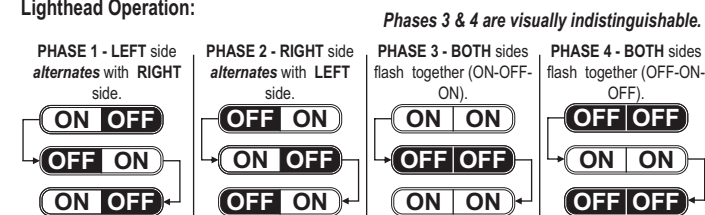
To restore the factory default pattern: With the light turned off, apply power to the WHT/VIO wire. With power applied to the WHT/VIO wire, turn light on. Allow the unit to run for 3 seconds before removing power from the WHT/VIO wire. This will reset all patterns back to their default settings.

Steady-Lock™ - When connected to a Core™ control system, a lighthead doesn't require manually scanlocking to the steady pattern. All populated outputs can be sent a Steady-Lock™ signal from Whelen Command®, automatically setting their pattern to Steady. A minimum Whelen Command® version of 2.2.9 is required for this Steady-Lock™ feature.

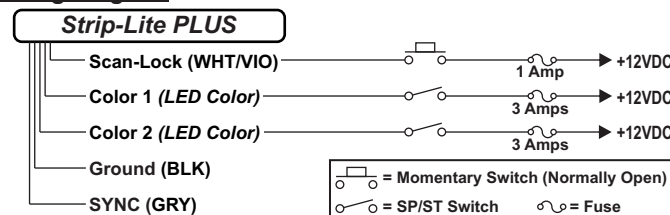
Pattern #67 (Steady) Operation: This is the Override pattern, meaning if either Color 1 or Color 2 is configured to display Pattern #67, the Override pattern will be displayed when Colors 1&2 are activated simultaneously. For example:

If Color 1 is set to Pattern #67, and Color 2 is any other pattern, the Override pattern (Color 1 in this example) will be displayed whenever Colors 1&2 are activated simultaneously.

Lighthead Operation:



Wiring Diagram



Flash Patterns

- | | | |
|-------------------------|---------------------------|-----------------------------|
| 1. Signal Alert 75 PH 1 | 25. DoubleFlash 75 PH 1 | 49. ActionFlash™ 60 PH 1 |
| 2. Signal Alert 75 PH 2 | 26. DoubleFlash 75 PH 2 | 50. ActionFlash™ 60 PH 3 |
| 3. Signal Alert 75 PH 3 | 27. DoubleFlash 75 PH 3 | 51. ActionFlash™ 120 PH 1 |
| 4. Signal Alert 75 PH 4 | 28. DoubleFlash 75 PH 4 | 52. ActionFlash™ 120 PH 3 |
| 5. CometFlash® 75 PH 1 | 29. TripleFlash 75 PH 1 | 53. Action SF 60/120 PH 1 |
| 6. CometFlash® 75 PH 2 | 30. TripleFlash 75 PH 2 | 54. Action SF60/120 PH 3 |
| 7. CometFlash® 75 PH 3 | 31. TripleFlash 75 PH 3 | 55. Action SF 120/TF75 PH1 |
| 8. CometFlash® 75 PH 4 | 32. TripleFlash 75 PH 4 | 56. Action SF 120/TF75 PH 3 |
| 9. ComAlert™ 75 PH 1 | 33. SingleFlash 60 PH 1 | 57. ModuFlash™ PH 1 |
| 10. ComAlert™ 75 PH 2 | 34. SingleFlash 60 PH 3 | 58. ModuFlash™ PH 3 |
| 11. ComAlert™ 75 PH 3 | 35. SingleFlash 90 PH 1 | 59. Cal Scan PH 1 |
| 12. ComAlert™ 75 PH 4 | 36. SingleFlash 90 PH 3 | 60. Cal Scan PH 3 |
| 13. LongBurst™ 75 PH 1 | 37. SingleFlash 120 PH 1 | 61. ActionScan™ PH 1 |
| 14. LongBurst™ 75 PH 2 | 38. SingleFlash 120 PH 3 | 62. ActionScan™ PH 3 |
| 15. LongBurst™ 75 PH 3 | 39. SingleFlash 240 PH 1 | 63. Steady / Flash 60 |
| 16. LongBurst™ 75 PH 4 | 40. SingleFlash 240 PH 3 | 64. Steady / Flash 75 |
| 17. PingPong™ 75 PH 1 | 41. DoubleFlash 120 PH1 | 65. Steady / Flash 90 |
| 18. PingPong™ 75 PH 2 | 42. DoubleFlash 120 PH 3 | 66. Steady / Flash 120 |
| 19. PingPong™ 75 PH 3 | 43. TripleFlash™ 120 PH 1 | 67. Steady / Steady |
| 20. PingPong™ 75 PH 4 | 44. TripleFlash™ 120 PH 3 | |
| 21. SingleFlash 75 PH 1 | 45. ComAlert™ 150 PH 1 | |
| 22. SingleFlash 75 PH 2 | 46. ComAlert™ 150 PH 3 | |
| 23. SingleFlash 75 PH 3 | 47. PingPong™ 120 PH 1 | |
| 24. SingleFlash 75 PH 4 | 48. PingPong™ 120 PH 3 | |

BOLD = California Title XIII

Italics = SYNC Pattern

