



**nFORCE® LED Lightbar
Photo Sensor Retro-Fit Kit**

Kit Includes:

- 1x nFORCE Top Cover
- 1x nFORCE Ambient Light Sensor Board
- 12x Rubber Washer
- 12x #10x2" 18-8 SS Pan Head Screw
- 2x Mini Wire Saddle
- 2x 8 x 1/2 Pan Torx Hi-Lo 410 Screw
- 1x 24" Wire Harness
- 1x 47" Wire Harness

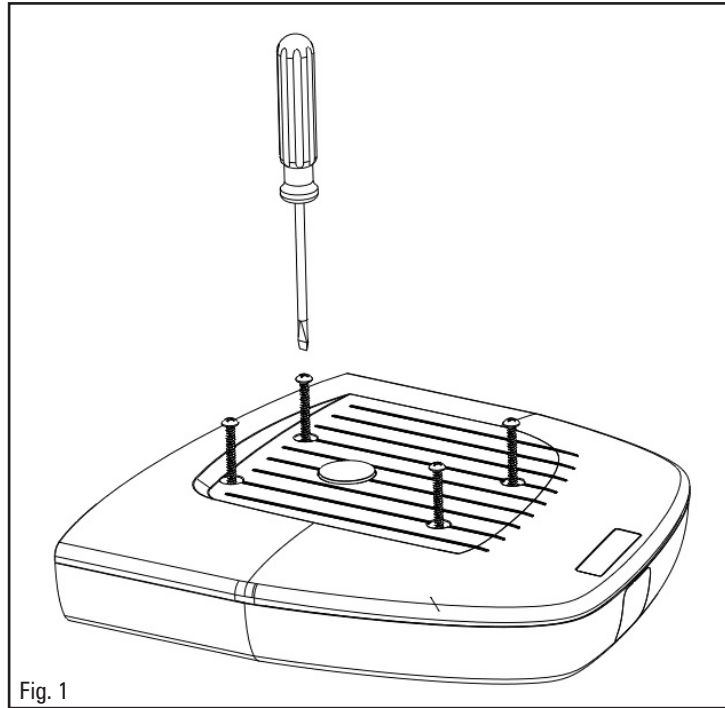


Fig. 1

⚠ WARNING

- HIGH CURRENT interconnects must be properly terminated. Poor crimp quality can cause heat build-up and fire. Follow crimp connector manufacturer instructions.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to vehicle Owner's Manual for deployment zones.
- Do NOT use system to disconnect headlights, brake lights or other safety equipment.
- Unit may become hot to touch during normal operation.
- Failure to properly install connectors, fuses or wiring may cause vehicle failure or fire.
- Installation must only be performed by trained technician. Installer must determine vehicle wiring configuration and proper integration of system.
- Use proper wire gauge. All power wires connecting to positive (+) or negative (-) battery terminal or local chassis ground (-) must be sized to supply at least 125% of max. current and properly fused at power source.
- Install protective grommets when routing wire through firewall or metal.

NOTICE:

Installers and users must comply with all applicable federal, state and local laws regarding use and installation of warning devices.

*Improper use or installation may void warranty coverage. To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at www.soundoffsignal.com/sales-support. If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. or after hours 5 p.m. to 8 p.m. EST at 1.800.338.7337 (press #4 to skip the automated message). Questions or comments that do not require immediate attention may be emailed to techservices@soundoffsignal.com.*

Installation Instructions

1. Disconnect Red wire of lightbar from +V supply.
2. Remove driver side top cover from lightbar by removing the 4 screws as shown in Figure 1.
3. Using the hardware provided, mount light sensor board to the 2 posts with the connector orientation as shown in Figure 2.
4. Remove all inboard top covers between the driver side corner cover and the power distribution board. Remove 1 top cover at a time starting at the driver side top cover until the power distribution board is located.
5. Route 3 wire harness between the light sensor board and the power distribution board using the wiring channels built into the lightbar as shown in Figure 3.
6. Plug end of 3 wire harness into the light sensor board as shown in Figure 4.
7. Plug other end of the 3 wire harness into any available fused 3 pin connector on the power distribution board as shown in Figure 5.
8. Install new top covers and verify the added wire harness is routed away from any mounting hardware to prevent damage to the harness when installing the top covers.
9. Install all new top covers and verify all covers are securely attached using the existing hardware.
10. Re-connect +V to Red wire.
11. Use PC App to configure the breakout box for the light sensor.
12. Test light sensor operation.



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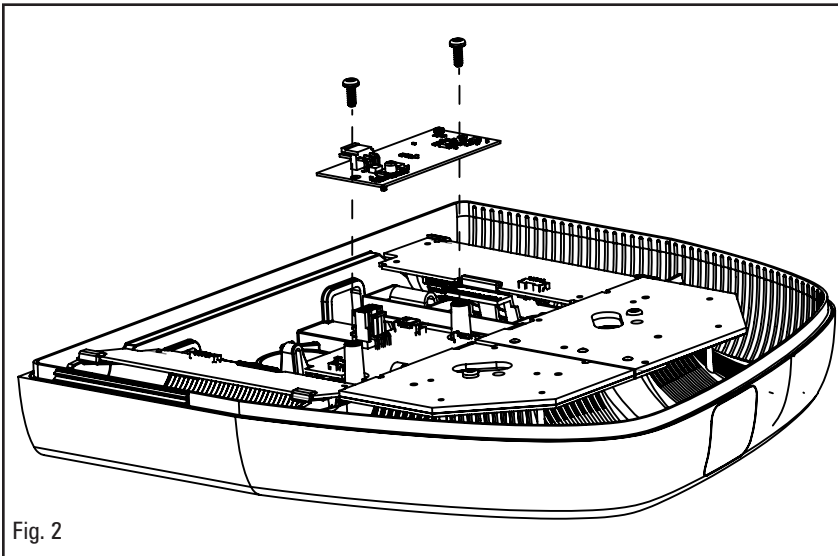


Fig. 2

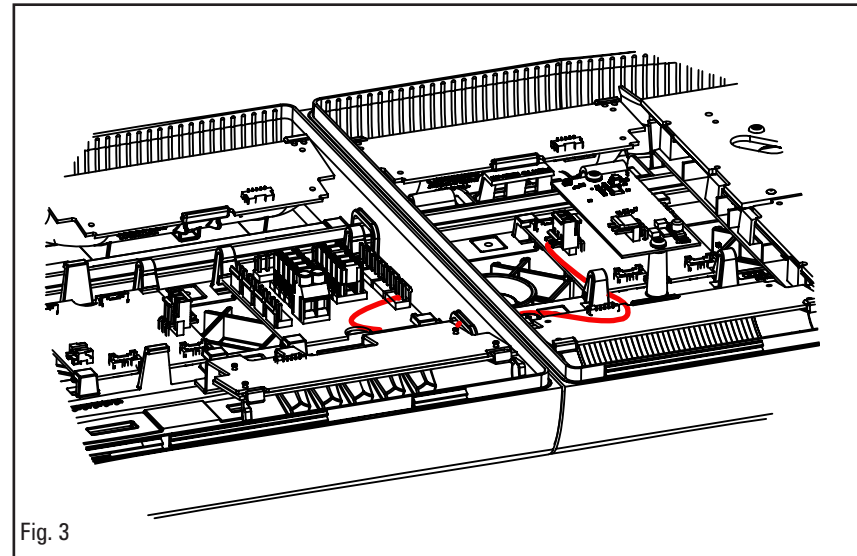


Fig. 3

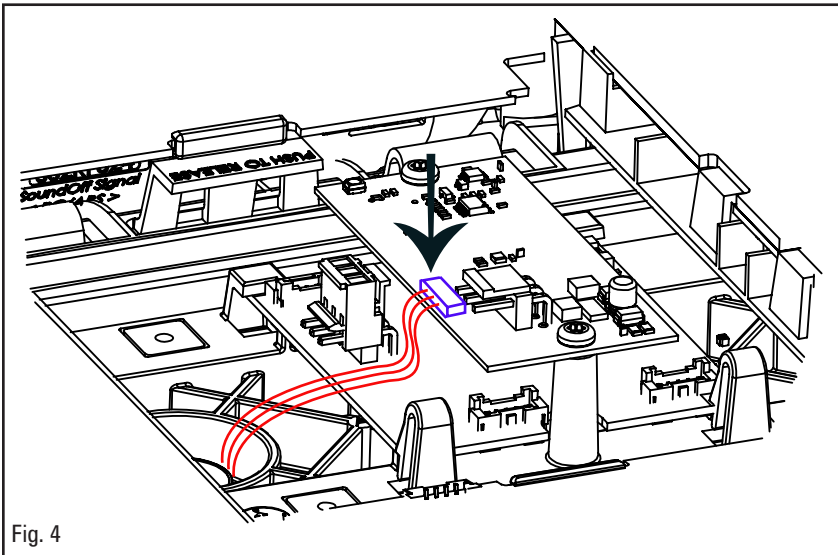


Fig. 4

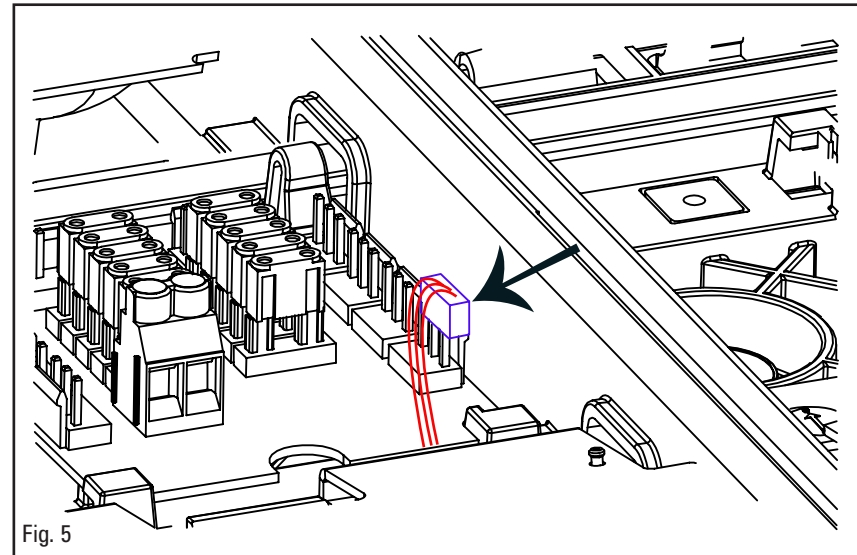


Fig. 5



nFORCE® LED Lightbar Photo Sensor Retro-Fit Kit



figure 1



figure 2

Photo Sensor Over-ride Configuration Instructions

1. Click on 'Breakout Box Inputs' tab and click on 'P1: Photo Sensor' and note priority and which functions are activated when the photo sensor is active. See figure 1.
2. Click on the input wire/siren control to be used to over-ride the functions activated by the photo sensor and change the priority of the selected input wire/siren control to be a higher priority than the photo sensor control. Set the functions activated by the photo sensor to 'Turn Function OFF' (Red button) when the input wire/siren control is active.
3. From the example in #2, when +V is applied to the gray wire, Low Power 1 will be turned off even if the photo sensor is active since the gray wire control is a higher priority than the photo sensor control. See figure 2.