Warnings to Installers

Whelen’s emergency vehicle warning devices must be properly mounted and wired in order to be effective and safe. Read and follow all of Whelen’s written instructions when installing or using this device. Emergency devices are often operated under high speed stressful conditions which must be accounted for when installing all emergency warning devices. Controls should be placed within convenient reach of the operator so that they can operate the system without taking their eyes off the roadway. Emergency warning devices can require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or vehicle damage, including fire. Many electronic devices used in emergency vehicles can create or be affected by electromagnetic interference. Therefore, after installation of any electronic device it is necessary to test all electronic equipment simultaneously to insure that they operate free of interference from other components within the vehicle. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment. All devices should be mounted in accordance with the manufacturer’s instructions and securely fastened to vehicle elements of sufficient strength to withstand the forces applied to the device. Driver and/or passenger air bags (SRS) will affect the way equipment should be mounted. This device should be mounted by permanent installation and within the zones specified by the vehicle manufacturer, if any. Any device mounted in the deployment area of an airbag will damage or reduce the effectiveness of the airbag and may damage or dislodge the device. Installer must be sure that this device, its mounting hardware and electrical supply wiring does not interfere with the airbag or the SRS wiring or sensors. Mounting the unit inside the vehicle by a method other than permanent installation is not recommended as unit may become dislodged during swerving; sudden braking or collision. Failure to follow instructions can result in personal injury. Whelen assumes no liability for any loss resulting from the use of this warning device. PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

Warnings to Users

Whelen’s emergency vehicle warning devices are intended to alert other operators and pedestrians to the presence and operation of emergency vehicles and personnel. However, the use of this or any other Whelen emergency warning device does not guarantee that you will have the right-of-way or that other drivers and pedestrians will properly heed an emergency warning signal. Never assume you have the right-of-way. It is your responsibility to proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes. Emergency vehicle warning devices should be tested on a daily basis to ensure that they operate properly. When in actual use, the operator must ensure that both visual and audible warnings are not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. It is the user’s responsibility to understand and obey all laws regarding emergency warning devices. The user should be familiar with all applicable laws and regulations prior to the use of any emergency vehicle warning device. Whelen’s audible warning devices are designed to project sound in a forward direction away from the vehicle occupants. However, because sustained periodic exposure to loud sounds can cause hearing loss, all audible warning devices should be installed and operated in accordance with the standards established by the National Fire Protection Association.

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.

⚠️ WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.whelen.com/Regulatory.

- 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.
- Any holes, either created or utilized by this product, should be made both air- and watertight using a sealant recommended by your vehicle manufacturer.
- 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 the holes and remove any metal shards or remnants. Install grommets into all wire passage holes.
- If this product is mounted with suction cups, magnets, tape or Velcro®, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.
- Don’t install this product or route any wires in the deployment area of your airbag. Equipment mounted or located in the airbag deployment area will damage or reduce the effectiveness of the airbag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner’s manual for the airbag deployment area. The driver of this vehicle 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 (this does not include products that use a power cord).
- If this product uses a remote device for activation or control, make sure that this device is located in an area that allows both the vehicle and the device 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.
- It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.
- FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!
Installation 2013 Ford Fusion:

IMPORTANT AIR BAG WARNING! 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 owners 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.

IMPORTANT! The lightbar should be located a minimum of 16" from any radio antennas!

Note: When routing the wires, it is important to choose a path that will keep the wires away from excessive heat or any vehicle equipment that could compromise the integrity of the wires (ex. trunk lids, door jams, etc.)

Figures 1 thru 3 show the driver side of the interior of the vehicle, shown looking up at the roof.

1. On the driver side visor swivel bracket, carefully pry the plastic cover off of the front of the bracket (Fig. 1). The lightbar mounting bracket will sit in the space that the cover occupied. NOTE: Pry the cover off using two flat blade screwdrivers on each side to avoid braking the cover. The cover will not be used here but should be saved in case you wish to remove the lightbar in the future.

2. Remove the swivel bracket mounting clip (located under the cover you removed in step 1) and lift the swivel bracket assembly out. Install the supplied fastex grommet into the hole in the roof sheet metal which the clip snapped into. Reinsert the swivel bracket assembly (Figs. 1 & 2).

3. On the vehicle visor clip, remove the screw holding on the clip and remove the clip. The supplied #8 x 1" sheet metal screw will replace the screw you removed (Fig. 2).

4. Secure the mounting bracket to the lightbar and position the bracket where it will mount on the vehicle (Figs. 3 & 4).

5. Secure the lightbar bracket to the swivel mount using the supplied 1/4 x 1-1/4" Phillips Pan Head Sheet Metal Screw. This screw will thread into the fastex grommet you installed in step 2 and the bracket will sit where the cover was (Fig. 5).

6. Line the rectangular hole in the other end of the lightbar bracket, up with the visor clip and install the visor clip over the lightbar bracket using the supplied #8 x 1" Sheet Metal Screw (Fig. 3).

7. Make sure all mounting hardware is tightened firmly and repeat procedure for the passenger side of the vehicle.

8. Extend the cables and connect to power. Refer to the lightbar manual for wiring and fusing information.

Wiring:

<table>
<thead>
<tr>
<th>Wire Color</th>
<th>Function</th>
<th>Momentary Switch</th>
<th>SPST Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHT/GRN</td>
<td>Scan-Lock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BROWN</td>
<td>Low Power</td>
<td></td>
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<tr>
<td>BLUE</td>
<td>Flash 1</td>
<td></td>
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<tr>
<td>ORANGE</td>
<td>CA Steady</td>
<td></td>
<td></td>
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<tr>
<td>WHT/BLK*</td>
<td>Take-Downs</td>
<td></td>
<td></td>
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<tr>
<td>WHT/ORG*</td>
<td>Flashing T-D</td>
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<td></td>
</tr>
<tr>
<td>BLK</td>
<td>Ground (-)</td>
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<tr>
<td>RED</td>
<td>+12VDC</td>
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</tbody>
</table>

* Not used with 12 light models

All Fuses & Switches Customer Supplied

To +12VDC (fuse @ 5 Amp)

BATTERY
**Operation:**
This lightbar is powered and controlled by an 8-conductor cable exiting the lightbar. All functions listed here are not present in all lightbars.

**White/Green - Scan-Lock™**
The WHITE/GREEN wire allows you to choose from the available flash patterns. First you must activate the lighthead(s) you wish to change:

**TO CYCLE THROUGH ALL PATTERNS:** To cycle forward apply +12 VDC to the WHT/GRN wire for less than 1 second and release. To cycle backward apply +12 VDC to the WHT/GRN wire for more than 1 second and release.

**TO SET A PATTERN AS DEFAULT:** When the pattern is displayed, allow it to run for over 5 seconds. The lighthead will now display this pattern when active.

**TO RESET TO THE FACTORY DEFAULT PATTERN:** Turn off power and apply +12 VDC to the WHT/GRN wire while turning power on. A normally open momentary switch is best used for Scan-Lock operation.

**Available Flash Patterns:**
1. ActionScan™
2. CometFlash®
3. SignalAlert™
4. Eyeballs Crazy
5. CometFlash®
6. Single Flash
7. Double Flash
8. Cylon 1
9. Cylon 2
10. Single Flash
11. Single Flash
12. Single Flash
13. Single Flash
14. Single Flash
15. Single Flash
16. Single Flash
17. Single Flash
18. Single Flash
19. Single Flash
20. Double Flash
21. Double Flash
22. Double Flash
23. Micro Flash
24. Micro Flash
25. Micro Flash
26. Ping Pong
27. Ping Pong
28. Modu Flash
29. Modu Flash
30. Modu Flash
31. Modu Flash
32. Modu Flash
33. Modu Flash
34. Modu Flash
35. Modu Flash
36. Modu Flash
37. Modu Flash
38. Modu Flash
39. Modu Flash
40. Eyeballs Crazy
41. Eyeballs Crazy
42. Eyeballs Crazy
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98. Eyeballs Crazy
99. Eyeballs Crazy
100. Eyeballs Crazy

**Blue: Flash 1**
Apply +12 VDC to the BLU wire to activate the warning lights. Fuse this wire @ 1 Amp.

**Brown: Hi/Low Power**
The low power feature allows you to step the lightbar down to run in low power for night time use. Fuse this wire @ 1 Amp. An SPST switch can be used to control Hi/Low power. To activate Low power operation: Apply +12 VDC to the BRN wire. To restore regular power: Remove voltage from the BRN wire.

**White/Black: Take-Downs**
Apply +12 VDC to the WHT/BLK wire to activate the take-downs. Fuse this wire @ 1 Amp. NOTE: Not used with 12 Light models.

**White/Orange: Flashing Take-Down**
Apply +12VDC to the WHT/ORG wire to activate flashing take-down mode. Fuse this wire @ 1 Amp. Note: The WHT/BLK wire overrides this display. NOTE: Not used with 12 Light models.

**Orange: California Steady**
Apply +12 VDC to the ORG wire to activate lightheads using the California Steady pattern table. Refer to the artwork on the following page for lighthead identification. Fuse this wire @ 1 Amp.

**California Steady Pattern Table:**
1. Active Lightheads
   - 1. D1
   - 2. D2
   - 3. D3
   - 4. D4
   - 5. D5
   - 6. D6 (12-Light Models Only)

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

**Warning:** All customer supplied wires that connect to the positive components/equipment. Confirm the operation of this product, as well as all vehicle components/equipment. Fuse this wire @ 1 Amp.

**Description:**
- **A:** Base, Housing Driver 2013 Fusion Inner Edge XLP Black
- **B:** Base, Housing Driver 2013 Fusion Inner Edge XLP Black
- **C:** Cover, Top Driver Fusion Inner Edge XLP Black
- **D:** Cover, Top Driver Fusion Inner Edge XLP Black
- **E:** Bracket, Visor Mt Driver Inner Edge XLP Black
- **F:** Bracket, Visor Mt Driver Inner Edge XLP Black
- **G:** Screw Grommet, FASTEX #12124002-040101
- **H:** Screw, 1/4 X 1 1/4 Pan Head SS Type A
- **I:** Screw, 8 X 1 Phillips

**Version:**
- **C:** 2013 Fusion
- **D:** 12 LT W/O/WD

**Part Number Key:**
- **A:** 01-0687417-C
- **B:** 01-0687417-D
- **C:** 01-0687417-E
- **D:** 01-0687417-F
- **E:** 01-0687417-G
- **F:** 01-0687417-H
- **G:** 01-0687417-I

**QTY ITEM DESCRIPTION**
<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
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<td>C</td>
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<td>Cover, Top Driver Fusion Inner Edge XLP Black</td>
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<td>1</td>
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<td>11-26E690-007</td>
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<tr>
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<td>E</td>
<td>07-287529-123</td>
<td>Bracket, Visor Mount Driver Fusion Inner Edge XLP Black</td>
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<td>07-287529-023</td>
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<tr>
<td>1</td>
<td>G</td>
<td>21-12081205-3</td>
<td>Screw Grommet, FASTEX #12124002-040101</td>
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<tr>
<td>1</td>
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<td>15-1311416-202</td>
<td>Screw, 1/4 X 1 1/4 Pan Head SS Type A</td>
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<td>15-081416-160</td>
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