

**nFORCE® LED Traffic Controller - Exterior  
ENFTCDXS12(xx)**



**IMPORTANT NOTICE TO INSTALLER:** Make sure to read and understand all instructions and warnings before proceeding with the installation of this product. Ensure that the manual and any warning cards are delivered to the end user of this equipment. Proper installation of the lightbar requires the installer to have a thorough knowledge of automotive electronics, systems, and procedures. Lightbars provide an essential function of an effective visual warning system. The use of the lightbar does not insure that all drivers can or will abide by or react to an emergency warning signal, especially at high rates of speeds or long distances. The operator of the vehicle must never take the right of way for granted and it is the operator's responsibility to proceed safely. The effectiveness of the lightbar is highly dependant on the correct mounting and wiring. The installer must read and follow the manufacturer's installation instructions and warnings in the manual. The vehicle operator should verify daily that the lightbar is securely fastened to the vehicle and properly functioning before operating vehicle. The lightbar is intended for use by authorized personnel only. It is the user's responsibility to ensure they understand and operate the emergency warning devices in compliance with the applicable city, state and federal laws and regulations. SoundOff Signal assumes no liability for any loss resulting from the use of this warning device.

**Components/Contents**

Standard Equipment:

- 1 - nForce LED Traffic Controller built to your specifications
- 1 - Breakout Box
- 1 - 24 Pin Harness
- 1 - Mounting Hardware

**Unpack Lightbar**

1. Remove from box and packaging.
2. Save packaging for later shipping.
3. Check components/contents.
4. Please reference these instructions for proper wiring and installation.



1.800.338.7337 / www.soundoffsignal.com

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**Important Information:**

- To view the full Software Revision History click the in the upper right hand corner of the nFORCE Lightbar Software application.
- Warning devices are strictly regulated and governed by Federal, State and Municipal ordinances. These devices shall be used ONLY on approved vehicles. It is the sole responsibility of the user of these devices to ensure compliance.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to your vehicle Owner's Manual for the location of any air bag deployment zones.
- DO NOT connect this device to a strobe power supply. This product is self-contained and does not require an external power supply.

**⚠ WARNING**

This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into the light beam at close range.

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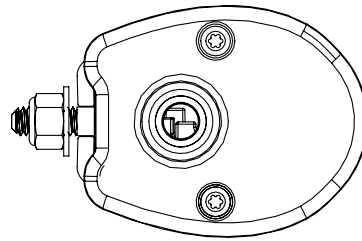
If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. ET at 1.800.338.7337 (press #4).

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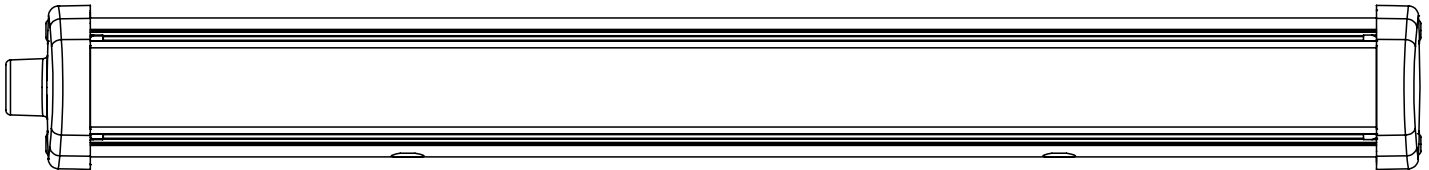
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| POWER SPECIFICATIONS |  |              |                              |              |
|----------------------|--|--------------|------------------------------|--------------|
| Input Voltage Range  | 10 -16 Vdc   |              |                              |              |
| Light Bar Component  | Current Draw<br>(Average = Flashing)                               |              | Power Consumption<br>(Watts) |              |
|                      | Ignition ON  | Ignition OFF | Ignition ON                  | Ignition OFF |
| Standby Current      | 0.010 Amps   | 0.002 Amps   | 0.13 Watts                   | 0.03 Watts   |
| Reverse Polarity     | Protected  |              |                              |              |
| Wiring               | Power Cable 15ft 18 AWG Wires, (+) Red, (-) Black,<br>(Data) White |              |                              |              |

| TECHNICAL SPECIFICATIONS                            |  |
|---|--|
| Material:   | Housing: Aluminum Alloy<br>Lens: Polycarbonate |
| Operating Temperature:                              | -40° to +65° C                                 |
| 4 Module Dimensions:                                | 19"L x 1.9"H x 2.47" D                         |
| 6 Module Dimensions:                                | 26.7"L x 1.9"H x 2.47" D                       |
| 8 Module Dimensions:                                | 35.5"L x 1.9"H x 2.47" D                       |
| Input Voltage:                                      | 10 - 16 Vdc                                    |
| CURRENT CONSUMPTION PER MODULE                      |  |
|   | 10-16 Vdc                                      |
| 6 LED Single<br>12 LED Single &<br>18 LED Tri-Color | <1.0A @12.8 Vdc                                |
| 9 LED Single Color                                  | <1.5A @ 12.8 Vdc                               |
| MAXIMUM WATTAGE PER MODULE                          |  |
|   | 10-16 Vdc                                      |
| 6 LED Single<br>12 LED Single &<br>18 LED Tri-Color | <6.4 Watt @12.8 Vdc                            |
| 9 LED Single Color                                  | <9.6 Watt @ 12.8 Vdc                           |
| 6 LED Takedown                                      | <12.8 Watt @ 12.8 Vdc                          |



**VIEW FROM SIDE**



**VIEW FROM FRONT**

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## **ELECTRICAL INSTALLATION**

### **Featured Highlights & Terminology:**

**Mode Select:** The nForce Traffic Controller is equipped with 4 selectable pattern configuration modes. The default input wire configuration allows for 2 modes, and an additional 2 modes may be configured with the PC Application using any available input wires. Default is Mode 1 where the Mode select input is floating, Mode 2 is in use when the input activated. This feature allows up to 4 completely different sets of patterns to be programmed into the Light-bar's non-volatile memory. Once programming configuration is complete, the Mode can be changed "on-the-fly" by an activation switch which applies voltage to the Mode input wire(s).

### **Front & Rear Installations:**

**Cruise Mode:** Allows the user to program any light group(s) to "Glow" when this feature is activated. For dual / tri color bars, the color for each light group is selectable.

**Takedown Mode:** Allows the user to program any Light Head Group(s) to turn on steady when this feature is activated to provide steady ON takedown lighting.

**Steady ON Mode:** Accessable with PC App only and allows the user to program any light module to turn on steady at 50% duty cycle.

**Scene Light Mode:** Allows the user to program any Light Head Group(s) to turn on steady when this feature is activated to provide additional scene lighting. The activation of this input also activates the Takedown function

**Scene Light Mode:** Allows the user to program any Light Head Group(s) to turn on steady when this feature is activated to provide additional scene lighting. The activation of this input also activates the Takedown function

**Low Power Mode:** Operates lighting at reduced intensity.

### **Rear Installations:**

**Stop / Tail / Turn Mode:** Allows the user to program any Light Head Group(s) to turn operate in 2 levels of intensity for tail and stop/turn functions.

**Directional Arrow Built-in:** The directional controller is built-in w/ 9 arrow patterns for each of the 3 modes (left arrow, right arrow, and center out arrow) and the color is selectable for dual / tri color bars

## **⚠ WARNING**

**ALL CUSTOMER SUPPLIED POWER WIRES CONNECTING TO THE POSITIVE (+) OR NEGATIVE (-) BATTERY TERMINAL OR LOCAL CHASSIS GROUND (-) MUST BE SIZED TO SUPPLY AT LEAST 125% OF THE MAXIMUM CURRENT AND PROPERLY FUSED AT THE POWER SOURCE WITH APPROPRIATELY RATED FUSE.**

### **Power Cable:**

1. Route lightbar power cables as close to vehicles power source (battery) as possible.
2. Install a maximum of 15 Amp Fuse (customer supplied) to the end of the RED wire of the Lightbar Power Cable.
  - a. Remove the fuse before connecting any wires to the battery.
  - b. **DO NOT USE CIRCUIT BREAKER OR FUSIBLE LINK.**
3. Connect the other end of the Fuse to the POSITIVE (+) terminal of the battery or other high current source.
  - a. Do NOT use any more than 2ft of wire between the power source and the fuse and ensure the wire is protected and secured from being cut into; this is non-fused wire.
4. Connect the BLACK wire to the factory chassis ground right next to the battery or other ground location capable of handling high current.
5. Connect the White wire to the Light Green wire on the breakout box (PIN 5). Make sure connection is insulated from other wire connections and vehicle ground

**\*BREAKOUT BOX MUST BE INSTALLED INSIDE THE VEHICLE. BREAKOUT BOX IS NOT A SEALED UNIT\***

### **Ignition Wire:**

1. Connect the Pink/White wire (Breakout Box PIN 12) to a switched power source.

**Initial Power up Test: Breakout Box needs Power & (+12V to PIN 17) & Ground (PIN 4) in order to operate.**

1. Observe the GREEN Data Link indicator LED on the Breakout Box; the LED will turn ON.
2. The Red indicator LED on the breakout box will be steady ON whenever any of the input wires are active

### **Low Power (Standby) Mode (reduced standby current)**

If there is no input to the breakout box the lightbar will go into a "standby" mode. The standby mode is a low power mode that is used to extend the life of your battery. The lightbar will awaken from the standby mode if any input is activated on the breakout box.

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**ELECTRICAL INSTALLATION (CONTINUED)**

**Warning Flash Pattern Configuration:**

- Set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- Apply voltage to the activation wire of the function which requires pattern to be changed (i.e. Warning, Arrow etc.)
- Apply voltage to the Mode activation wire to configure mode 2 flash patterns, leave Mode activation wire floating to configure mode 1 flash patterns
- Momentarily apply voltage to the pattern select wire to change the warning flash pattern
- Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

**FLASH PATTERNS**

\*fpm=Flashes per Minute

\*\*fps=Flashes per Second

| #    | Name                           | SAE<br>Compliant<br>Timing | ECE<br>Compliant<br>Timing | California Title 13<br>Compliant<br>Timing | Color | Sequence     | fpm | fps |
|------|--------------------------------|----------------------------|----------------------------|--|-------|--------------|-----|-----|
| SC1  | Random 1                       | Yes                        | No                         | No   | #1    | Variable     | -   | -   |
| SN2  | Random 2                       | No                         | No                         | No   | #1    | Variable     | -   | -   |
| SC3  | Quint                          | Yes                        | No                         | No   | #1    | Alternating  | 70  | 1.2 |
| SC4  | Quad 2                         | Yes                        | No                         | No   | #1    | Variable     | -   | -   |
| SC5  | Q-Switch                       | Yes                        | No                         | No   | #1    | Variable     | -   | -   |
| SC6  | Double                         | Yes                        | No                         | No   | #1    | Alternating  | 115 | 1.9 |
| SC7  | Power Pulse                    | Yes                        | No                         | No   | #1    | Alternating  | 180 | 3   |
| SC8  | Road Runner                    | Yes                        | No                         | Yes  | #1    | Alternating  | 115 | 1.9 |
| SC9  | Slow Runner                    | Yes                        | No                         | Yes  | #1    | Alternating  | 70  | 1.2 |
| SN10 | Warp                           | No                         | No                         | No   | #1    | Alternating  | 350 | 5.8 |
| SN11 | Inter-Cycle                    | No                         | No                         | No   | #1    | Alternating  | -   | -   |
| SN12 | Warp 1-2-3                     | No                         | No                         | No   | #1    | Alternating  | -   | -   |
| SC13 | E-Single                       | Yes                        | Yes                        | No   | #1    | Alternating  | 125 | 2.1 |
| SC14 | E-Double                       | Yes                        | Yes                        | No   | #1    | Alternating  | 125 | 2.1 |
| SC15 | E-Triple                       | Yes                        | Yes                        | No   | #1    | Alternating  | 125 | 2.1 |
| SC16 | E-Single Sim                   | Yes                        | Yes                        | No   | #1    | Simultaneous | 125 | 2.1 |
| SC17 | E-Double Sim                   | Yes                        | Yes                        | No   | #1    | Simultaneous | 125 | 2.1 |
| SN18 | Super Slow Runner              | No                         | No                         | No   | #1    | Alternating  | 55  | 0.9 |
| SC19 | Quint Simultaneous             | Yes                        | No                         | No   | #1    | Simultaneous | 70  | 1.2 |
| SC20 | Road Runner Simultaneous       | Yes                        | No                         | No   | #1    | Simultaneous | 114 | 1.9 |
| SC21 | Quint Pass/Steady Driver       | Yes                        | No                         | No   | #1    | -            | 70  | 1.2 |
| SC22 | Road Runner Pass/Steady Driver | Yes                        | No                         | No   | #1    | -            | 114 | 1.9 |
| SC23 | Quint 2                        | Yes                        | No                         | No   | #1    | -            | 70  | 1.2 |
| SN24 | Warp 2                         | No                         | No                         | No   | #1    | -            | 350 | 5.8 |
| SN25 | Inter-Cycle 2                  | No                         | No                         | No   | #1    | -            | -   | -   |
| SN26 | Flicker Brake                  | No                         | No                         | No   | #1    | -            | -   | -   |
| SN27 | Flicker Cruise                 | No                         | No                         | No   | #1    | -            | -   | -   |
| SN28 | Steady                         | No                         | No                         | No   | #1    | -            | -   | -   |
| SN29 | Manifesto                      | No                         | No                         | No   | #1    | -            | -   | -   |
| SN30 | Power Evert                    | No                         | No                         | No   | #1    | -            | -   | -   |
| SN31 | Dazzle                         | No                         | No                         | No   | #1    | -            | -   | -   |
| SN32 | Quiver                         | No                         | No                         | No   | #1    | -            | -   | -   |

**NOTE: Takedown light patterns are limited to pattern #1 – 25**

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**FLASH PATTERNS (CONT.)**

| #    | Name                    | SAE<br>Compliant<br>Timing | ECE<br>Compliant<br>Timing | California Title 13<br>Compliant<br>Timing | Color | Sequence     | fpm | fps |
|------|-------------------------|----------------------------|----------------------------|--|-------|--------------|-----|-----|
| SN33 | Power Sway              | No                         | No                         | No   | #1    | -            | -   | -   |
| SN34 | Evert                   | No                         | No                         | No   | #1    | -            | -   | -   |
| SN35 | Alternating Rapid Flash | No                         | No                         | No   | #1    | -            | -   | -   |
| SN36 | Swift Impact            | No                         | No                         | No   | #1    | -            | -   | -   |
| SN37 | Tango                   | No                         | No                         | No   | #1    | -            | -   | -   |
| SN38 | Tremble                 | No                         | No                         | No   | #1    | -            | -   | -   |
| SN39 | Shake                   | No                         | No                         | No   | #1    | -            | -   | -   |
| SN40 | Evolver                 | No                         | No                         | No   | #1    | Simultaneous | -   | -   |
| SN41 | Corner Sweep            | No                         | No                         | No   | #1    | -            | -   | -   |
| SN42 | Corner Sweep Slow       | No                         | No                         | No   | #1    | -            | -   | -   |
| SN43 | Full/Sweep              | No                         | No                         | No   | #1    | -            | -   | -   |
| SN44 | Full/Sweep Slow         | No                         | No                         | No   | #1    | -            | -   | -   |
| SN45 | Center Sweep            | No                         | No                         | No   | #1    | -            | -   | -   |
| SN46 | Center Sweep Slow       | No                         | No                         | No   | #1    | -            | -   | -   |
| SN47 | Orbit                   | No                         | No                         | No   | #1    | -            | -   | -   |
| SN48 | Orbit Slow              | No                         | No                         | No   | #1    | -            | -   | -   |
| SN49 | Double Orbit            | No                         | No                         | No   | #1    | -            | -   | -   |
| SN50 | Slow Double Orbit       | No                         | No                         | No   | #1    | -            | -   | -   |
| SN51 | Retrograde Orbit        | No                         | No                         | No   | #1    | -            | -   | -   |
| SN52 | Slow Retrograde Orbit   | No                         | No                         | No   | #1    | -            | -   | -   |
| SN53 | Progressive Alternate   | No                         | No                         | No   | #1    | -            | -   | -   |
| SN54 | Recurrent               | No                         | No                         | No   | #1    | Simultaneous | -   | -   |
| DC1  | Random Dual #1          | Yes                        | No                         | No   | #1/2  | Variable     | -   | -   |
| DN2  | Random Dual #2          | No                         | No                         | No   | #1/2  | Variable     | -   | -   |
| DC3  | Quint Dual              | Yes                        | No                         | No   | #1/2  | Alternating  | 70  | 1.2 |
| DC4  | Quad 2 Dual             | Yes                        | No                         | No   | #1/2  | Variable     | -   | -   |
| DC5  | Q-Switch Dual           | Yes                        | No                         | No   | #1/2  | Variable     | -   | -   |
| DC6  | Double Dual             | Yes                        | No                         | No   | #1/2  | Alternating  | 115 | 1.9 |
| DC7  | Power Pulse Dual        | Yes                        | No                         | No   | #1/2  | Alternating  | 180 | 3   |
| DC8  | Road Runner Dual        | Yes                        | No                         | Yes  | #1/2  | Alternating  | 115 | 1.9 |
| DC9  | Slow Runner Dual        | Yes                        | No                         | Yes  | #1/2  | Alternating  | 70  | 1.2 |
| DN10 | Warp Dual               | No                         | No                         | No   | #1/2  | Alternating  | 350 | 5.8 |
| DN11 | Inter-Cycle Dual        | No                         | No                         | No   | #1/2  | Alternating  | -   | -   |
| DN12 | Warp 1-2-3 Dual         | No                         | No                         | No   | #1/2  | Alternating  | -   | -   |
| DN13 | Pattern #1 Dual         | No                         | No                         | No   | #1/2  | Variable     | -   | -   |
| DN14 | Pattern #2 Dual         | No                         | No                         | No   | #1/2  | Variable     | -   | -   |
| DN15 | Impact Dual             | No                         | No                         | No   | #1/2  | Variable     | -   | -   |
| DN16 | Explosion Dual          | No                         | No                         | No   | #1/2  | Variable     | -   | -   |
| DC17 | Quint Simultaneous Dual | Yes                        | No                         | No   | #1/2  | Simultaneous | 70  | 1.2 |

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| #    | Name                         | SAE<br>Compliant<br>Timing | ECE<br>Compliant<br>Timing | California Title 13<br>Compliant<br>Timing | Color  | Sequence     | fpm | fps |
|------|------------------------------|----------------------------|----------------------------|--|--------|--------------|-----|-----|
| DC18 | Road Runner Sim. Dual        | Yes                        | No                         | No   | #1/2   | Simultaneous | 114 | 1.9 |
| DC19 | Quint 2 Dual                 | Yes                        | No                         | No   | #1/2   | -            | 70  | 1.2 |
| DN20 | Warp 2 Dual                  | No                         | No                         | No   | #1/2   | -            | 350 | 5.8 |
| DN21 | Inter-Cycle 2 Dual           | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN22 | Super Slow Runner Dual       | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN23 | Flicker Cruise Dual          | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN24 | Manifesto Dual               | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN25 | Power Evert Dual             | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN26 | Dazzle Dual                  | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN27 | Quiver Dual                  | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN28 | Power Sway Dual              | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN29 | Evert Dual                   | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN30 | Alternating Rapid Flash Dual | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN31 | Swift Impact Dual            | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN32 | Tango Dual                   | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN33 | Tremble Dual                 | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN34 | Shake Dual                   | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN35 | Evolver Dual                 | No                         | No                         | No   | #1/2   | Simultaneous | -   | -   |
| DN36 | Corner Sweep Dual            | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN37 | Corner Sweep Slow Dual       | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN38 | Full/Sweep Dual              | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN39 | Full/Sweep Slow Dual         | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN40 | Center Sweep Dual            | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN41 | Center Sweep Slow Dual       | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN42 | Orbit Dual                   | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN43 | Orbit Slow Dual              | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN44 | Double Orbit Dual            | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN45 | Slow Double Orbit Dual       | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN46 | Retrograde Orbit Dual        | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN47 | Slow Retrograde Orbit Dual   | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN48 | Progressive Alternate Dual   | No                         | No                         | No   | #1/2   | -            | -   | -   |
| DN49 | Recurrent Dual               |                            | No                         | No   | #1/2   | Simultaneous | -   | -   |
| TN1  | Pattern 1 Tri                | No                         | No                         | No   | #1/2/3 | Alternating  | -   | -   |
| TN2  | Random Tri                   | No                         | No                         | No   | #1/2/3 | Alternating  | -   | -   |
| TC3  | Quint Tri                    | Yes                        | No                         | No   | #1/2/3 | Alternating  | 70  | 1.2 |
| TC4  | Quad 2 Tri                   | Yes                        | No                         | No   | #1/2/3 | Alternating  | -   | -   |
| TN5  | Pattern 2 Tri                | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TC6  | Double Tri                   | Yes                        | No                         | No   | #1/2/3 | Alternating  | 115 | 1.9 |
| TC7  | Power Pulse Tri              | Yes                        | No                         | No   | #1/2/3 | Alternating  | 180 | 3   |

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| #    | Name                        | SAE<br>Compliant<br>Timing | ECE<br>Compliant<br>Timing | California Title 13<br>Compliant<br>Timing | Color  | Sequence     | fpm | fps |
|------|-----------------------------|----------------------------|----------------------------|--|--------|--------------|-----|-----|
| TC8  | Road Runner Tri             | Yes                        | No                         | Yes  | #1/2/3 | Alternating  | 115 | 1.9 |
| TC9  | Slow Runner Tri             | Yes                        | No                         | Yes  | #1/2/3 | Alternating  | 70  | 1.2 |
| TN10 | Warp Tri                    | No                         | No                         | No   | #1/2/3 | Alternating  | 350 | 5.8 |
| TN11 | Inter-Cycle Tri             | No                         | No                         | No   | #1/2/3 | Alternating  | -   | -   |
| TN12 | Warp 1-2-3 Tri              | No                         | No                         | No   | #1/2/3 | Alternating  | -   | -   |
| TN13 | Super Slow Runner Tri       | No                         | No                         | No   | #1/2/3 | Alternating  | 55  | 0.9 |
| TC14 | Quint Simultaneous Tri      | Yes                        | No                         | No   | #1/2/3 | Simultaneous | 70  | 1.2 |
| TC15 | Road Runner Sim. Tri        | Yes                        | No                         | No   | #1/2/3 | Simultaneous | 114 | 1.9 |
| TC16 | Quint 2 Tri                 | Yes                        | No                         | No   | #1/2/3 | Alternating  | 70  | 1.2 |
| TN17 | Warp 2 Tri                  | No                         | No                         | No   | #1/2/3 | Alternating  | 350 | 5.8 |
| TN18 | Inter-Cycle 2 Tri           | No                         | No                         | No   | #1/2/3 | Alternating  | -   | -   |
| TN19 | Pattern 3 Tri               | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN20 | Flicker Cruise Tri          | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN21 | Manifesto Tri               | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN22 | Power Evert Tri             | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN23 | Dazzle Tri                  | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN24 | Quiver Tri                  | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN25 | Power Sway Tri              | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN26 | Evert Tri                   | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN27 | Alternating Rapid Flash Tri | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN28 | Swift Impact Tri            | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN29 | Tango Tri                   | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN30 | Tremble Tri                 | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN31 | Shake Tri                   | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN32 | Evolver Tri                 | No                         | No                         | No   | #1/2/3 | Simultaneous | -   | -   |
| TN33 | Corner Sweep Tri            | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN34 | Corner Sweep Slow Tri       | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN35 | Full/Sweep Tri              | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN36 | Full/Sweep Slow Tri         | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN37 | Center Sweep Tri            | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN38 | Center Sweep Slow Tri       | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN39 | Orbit Tri                   | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN40 | Orbit Slow Tri              | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN41 | Double Orbit Tri            | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN42 | Double Orbit Slow Tri       | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN43 | Retrograde Orbit Tri        | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN44 | Retrograde Orbit Slow Tri   | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN45 | Progressive Alternate Tri   | No                         | No                         | No   | #1/2/3 | -            | -   | -   |
| TN46 | Recurrent Tri               | No                         | No                         | No   | #1/2/3 | Simultaneous | -   | -   |

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**nFORCE® LED Traffic Controller - Exterior  
ENFTCDXS12(xx)**

| #  | Name                    | SAE                 |       |          |     |     |
|----|-------------------------|---------------------|-------|----------|-----|-----|
|    |                         | Compliant<br>Timing | Color | Sequence | fpm | fps |
| 1  | Single Fast             | No                  | -     | -        | -   | -   |
| 2  | Single Slow             | No                  | -     | -        | -   | -   |
| 3  | Chaser Fast             | No                  | -     | -        | -   | -   |
| 4  | Chaser Slow             | No                  | -     | -        | -   | -   |
| 5  | Fill Fast               | No                  | -     | -        | -   | -   |
| 6  | Fill Slow               | No                  | -     | -        | -   | -   |
| 7  | Grow/Shrink             | No                  | -     | -        | -   | -   |
| 8  | Warning w/Arrow         | No                  | -     | -        | -   | -   |
| 9  | Warning w/Arrow<br>Fill | No                  | -     | -        | -   | -   |
| 10 | Arrow Random 1          | No                  | -     | -        | -   | -   |
| 11 | Arrow Random 2          | No                  | -     | -        | -   | -   |

**ELECTRICAL INSTALLATION (CONTINUED)**

**NOTE:** For settings below, Switch #2 does not need to be moved to the up position after each configuration. The switch can remain in the down position until the lightbar is completely configured and then moved to the Up position to store all the settings.

**Cruise Mode Configuration:**

- a. Set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- b. Determine which module inputs are needed for cruise mode
- c. Apply voltage to the Cruise Mode activation wire
- d. Apply voltage to the light group wire(s) required (i.e. Inboard 1, 2, 3, etc.)
- e. Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

**NOTE:** If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The lightbar will flash color #1 of all modules configured for cruise mode. If a module flashes every 2 seconds and is not intended to be on when Cruise mode is activated, repeat steps 'd' and 'e' until module no longer flashes.

- f. Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

**Takedown and Work-light Configuration:**

- a. Set Switch #2 on Breakout box to down (Switch #1 must be in Up position)
- b. Determine which module inputs are needed for Takedowns or Work-lights
- c. Apply voltage to the Takedown activation wire
- d. Apply voltage to the light group wire(s) required (i.e. Inboard 1, 2, 3, etc.)
- e. Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

**NOTE:** If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The light-bar will flash color #1 of all modules configured for takedown. If a module flashes every 2 seconds and is not intended to be on when takedown is activated, repeat steps 'd' and 'e' until module no longer flashes.

- f. Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

**Scene light Configuration:**

- a. Set Switch #2 on Breakout box to down (Switch #1 must be in Up position)
- b. Determine which module inputs are needed for Scene Lighting
- c. Apply voltage to the Scene light activation wire
- d. Apply voltage to the light group wire(s) required (i.e. Inboard 1, 2, 3, etc.)
- e. Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

**NOTE:** If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The light-bar will flash color #1 of all modules configured for scene light. If a module flashes every 2 seconds and is not intended to be on when scene light function is activated, repeat steps 'd' and 'e' until module no longer flashes.

- f. Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode



## **ELECTRICAL INSTALLATION (CONTINUED)**

### **Stop / Turn / Tail (STT) Light Configuration:**

- a. Set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- b. Determine which module inputs are needed for Stop / Turn / Tail Lights
- c. Apply voltage to the Left Turn or Right Turn activation wires
- d. Apply voltage to the light group wire(s) required (i.e. Rear Inboard 1, Rear Inboard 2, etc.)
- e. Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

**NOTE:** If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The light-bar will flash color #1 of all modules configured for STT function. If a module flashes every 2 seconds and is not intended to be on when an STT function is activated, repeat steps 'd' and 'e' until module no longer flashes.

- f. Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

### **Arrow Color Configuration:**

- a. Set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- b. Determine which module inputs are needed for Arrow function
- c. Apply voltage to the Left Arrow or Right Arrow activation wires
- d. Apply voltage to the light group wire(s) required (i.e. Rear Inboard 1, Rear Inboard 2, etc.)
- e. Momentarily apply voltage to the pattern select wire to change the color between Off, Color 1, Color 2, and Color 3.

**NOTE:** If configuring a single color or dual color module, make sure the chosen color is configured for Off and not a color which does not exist on the module. The light-bar will flash color #1 of all modules configured for Arrow function. If a module flashes every 2 seconds and is not intended to be on when an Arrow function is activated, repeat steps 'd' and 'e' until module no longer flashes.

- f. Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode.

### **Arrow Flash Pattern Configuration:**

- a. Set Switch #2 on Breakout box to down position (Switch #1 must be in Up position)
- b. Apply voltage to the Left Arrow activation wire to set Left Arrow pattern, apply voltage to Right Arrow activation wire to set Right Arrow pattern, apply voltage to Left Arrow and Right Arrow activation wires to set Center out Arrow pattern
- c. Momentarily apply voltage to the pattern select wire to change the arrow flash pattern
- d. Set Switch #2 on Breakout box to up position to save settings and return light-bar to normal operating mode

### **IMPORTANT**

**WHEN PASSING CABLES THROUGH FIREWALL OR OTHER SHEETMETAL, INSERT GROMMET TO PROTECT THE CABLE!**

### **⚠ WARNING**

**Route wires only in locations that are not subjected to potential wear. Make sure to avoid routing wires in the deployment area of your air bag. Refer to your vehicle's owner's manual for airbag deployment zone.**

### **NOTICE:**

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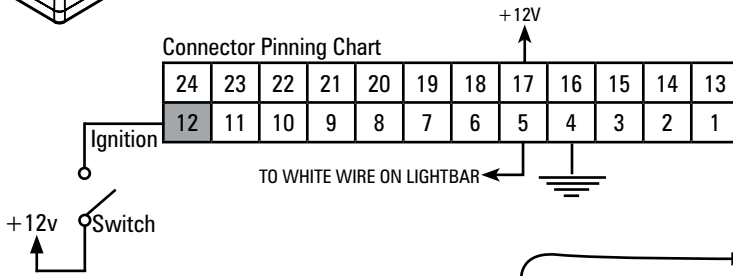
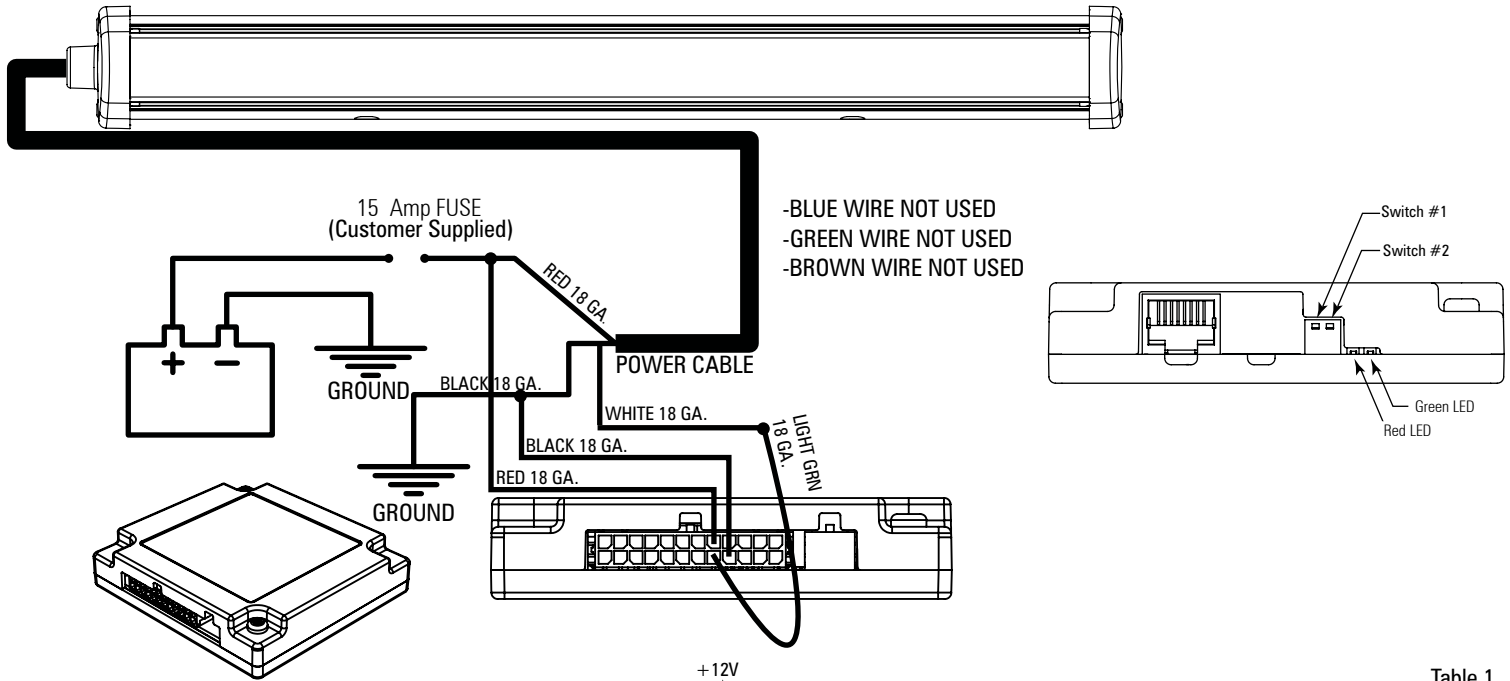
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## nFORCE<sup>®</sup> LED Traffic Controller - Exterior ENFTCDXS12(xx)



**Default Functional Inputs**  
Functional Inputs connect to your control head or switching unit. Applying +12Vdc to any functional Input will activate it's function (default-active high).

### BREAKOUT BOX HOOKUP:

- Refer to Table 1 for Breakout Box input wire default functions
- Make sure the 24-pin connector is snapped in securely.
- Follow the label for the wire color to connect to a 12Vdc source, which turns on that given light or lights.
- Make sure your wire connections are secured and isolated from any other wire.
- Connect Red wire to +12V
- Connect Black wire to Ground.
- Connect Pink/White wire to ignition.
- Connect Light Green wire to White wire from Traffic Arrow.

\*BREAKOUT BOX MUST BE INSTALLED IN THE INTERIOR OF THE VEHICLE. BREAKOUT BOX IS NOT A SEALED UNIT.\*

Table 1.

| Wire Pin # | Wire Color        | Wire Function         |
|------------|-------------------|-----------------------|
| 1          | Blue/White        | Rear Inboard 4        |
| 2          | Green/White       | Rear Inboard 1        |
| 3          | Gray              | Mode Select           |
| 4          | Black             | Ground                |
| 5          | Light Green       | Data                  |
| 6          | Brown/White       | Takedown Flash        |
| 7          | Purple            | Low Power             |
| 8          | White             | Pattern Select / Tail |
| 9          | Black/White       | Left STT              |
| 10         | Gray/White        | Arrow - Right         |
| 11         | Purple/White      | Arrow - Left          |
| 12         | Pink/White        | Ignition Input        |
| 13         | Blue              | Not Used              |
| 14         | Green             | Not Used              |
| 15         | Yellow            | Not Used              |
| 16         | Orange            | Not Used              |
| 17         | Red               | V+ Input              |
| 18         | Pink              | Scene                 |
| 19         | Red/White         | Cruise                |
| 20         | Brown             | Takedown 1            |
| 21         | Yellow/White      | Rear Inboard 2        |
| 22         | Orange/White      | Rear Inboard 3        |
| 23         | Red/Black         | Right Turn            |
| 24         | Light Green/White | Future use - Sync 2   |

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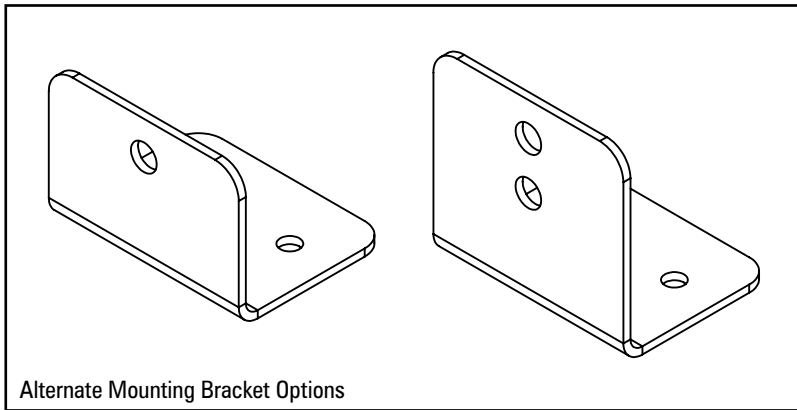
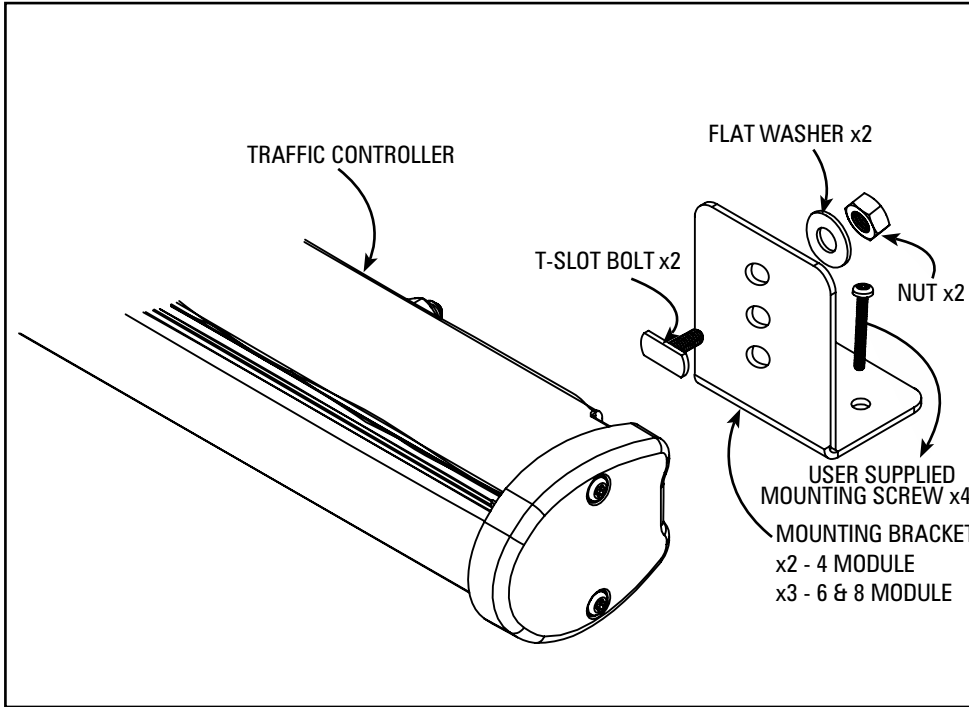
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**nFORCE<sup>®</sup> LED Traffic Controller - Exterior**  
**ENFTCDXS12(xx)**



**INSTALLATION INSTRUCTIONS**

1. Locate where you want to install the nFORCE Traffic Controller.
2. Using the screw holes on the mounting brackets as a template, mark the hole locations on the vehicle.
3. Drill screw holes.
4. Screw the mounting bracket to the vehicle using user supplied screws.
5. Slide T-Bolts into the channel on the back of the Traffic Controller.
6. Choose the height you would like to mount your Traffic Controller and insert the T-Bolt into the coordinating hole being sure that it is oriented correctly. The side with the "BOTTOM" label should be facing down.
7. Tighten the Traffic Controller onto the mounting bracket with the supplied flat washer and nut.

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**nFORCE® LED Traffic Controller - Exterior  
ENFTCDXS12(xx)**

**nForce TROUBLESHOOTING**

**NORMAL OPERATION**

Under Normal operation with ignition input powered, the breakout box will have the Green LED ON and the Red LED light will be ON whenever an input is active and both switches are in the UP (off) position.

**NO OPERATION**

No Green LED on Breakout box;

Check input power and ground to lightbar and breakout box

Check Ignition Input wire and verify a minimum of 10.0 Volts is present on the wire

**NO or INCORRECT WARNING LIGHTs**

No steady Red LED on breakout box;

Check 24-pin connector at breakout box (insure it is snapped in correctly), check appropriate input to breakout box for output lights which should be on. Verify voltage is present at the wire input to the breakout box for the function being tested

**NO TAKEDOWNS LIGHTS**

Breakout box LED's operating correctly;

Verify configuration and make sure light modules are configured for takedown function

No steady Red LED on breakout box;

Check 24-pin connector at breakout box (**ensure it is snapped in correctly**), check appropriate input to breakout box for output lights which should be on

**INCORRECT OR NO ARROW OPERATION**

Breakout box LED's operating correctly;

Verify configuration and make sure light modules are configured for arrow function

No steady Red LED on breakout box;

Check 24-pin connector at breakout box (**ensure it is snapped in correctly**), check appropriate input to breakout box for output lights which should be on.

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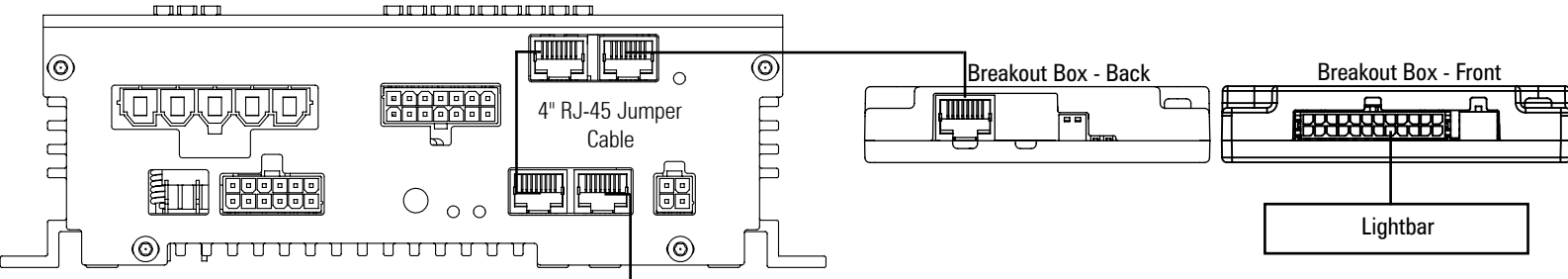
## nFORCE<sup>®</sup> LED Traffic Controller - Exterior ENFTCDXS12(xx)

### Connection of Lightbar Breakout Box to SoundOff Signal Siren:

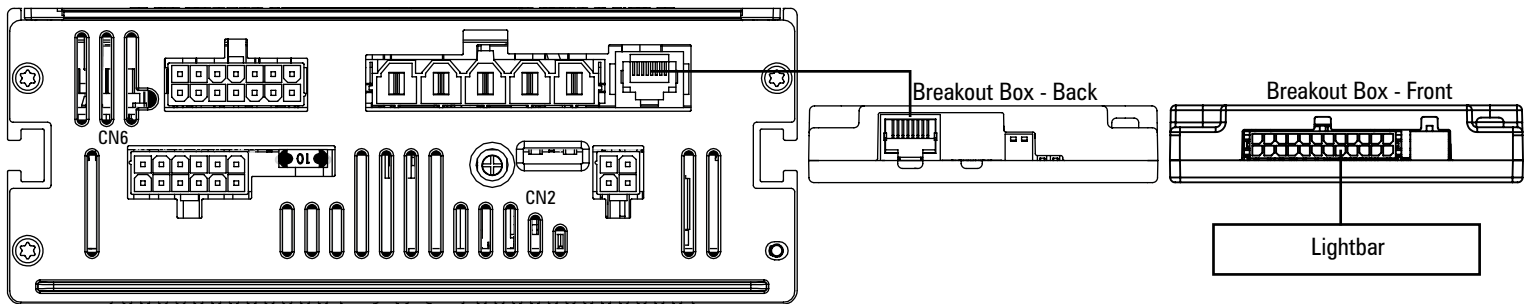
Note: Requires PC configuration app to map siren control switches to lightbar functions

Plug 1 end of RJ-45 cable to available jack on siren amplifier  
Plug other end of RJ-45 cable to 'siren'

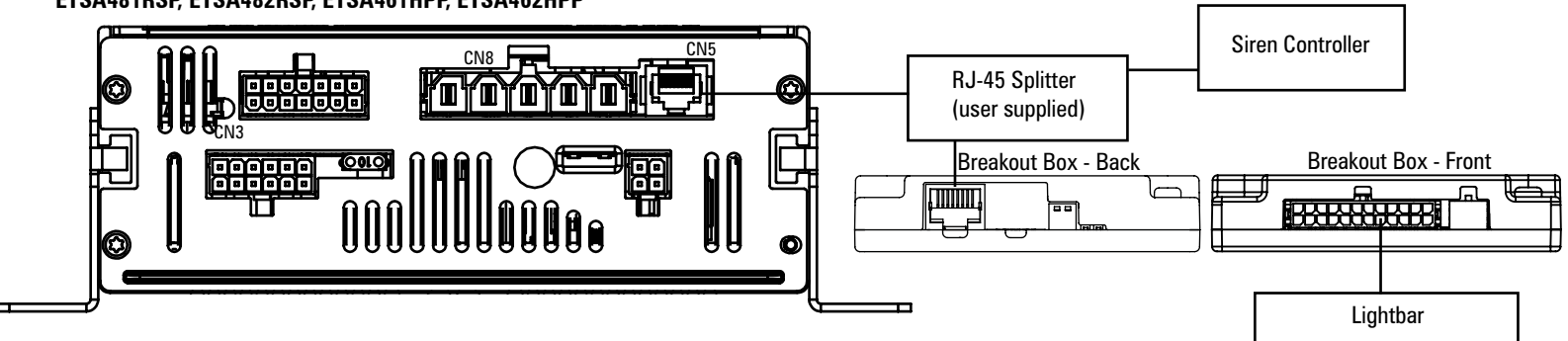
#### ETSA380R or ETSA385HR



#### ETSA481CSR or ETSA482CSR



#### ETSA481RSP, ETSA482RSP, ETSA461HPP, ETSA462HPP



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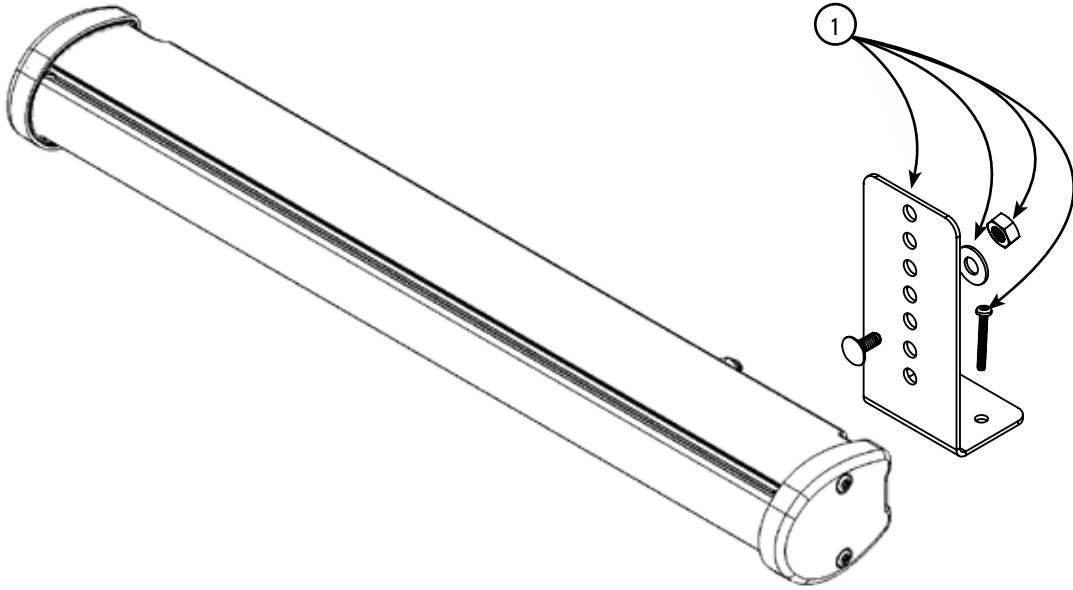
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**REPLACEMENT PARTS & ACCESSORIES**

| ITEM # | PART#        | DESCRIPTION   |
|--------|--------------|---|
|        | PNFTCM01     | nFORCE Traffic Controller D/G Mount Kit (1 Hole - Short)      |
|        | PNFTCM02     | nFORCE Traffic Controller D/G Mount Kit (2 Hole - Medium)     |
|        | PNFTCM03     | nFORCE Traffic Controller D/G Mount Kit (3 Hole - Long)       |
| 1      | PNFTCM07     | nFORCE Traffic Controller D/G Mount Kit (7 Hole - Extra Long) |
|        | PNFWBJ00     | Breakout Box  |
|        | PEPL9BBHN(x) | Breakout Box Harness - Short/Long                             |

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**nFORCE® LED Traffic Controller - Exterior  
ENFTCDXS12(xx)**

**WARRANTY & RETURN GOODS PROCEDURE**

**MOUNTING INTEGRITY:**

A review of bolt/hardware/mounting bracket integrity should be performed at the beginning and end of each shift.

**WARNING MESSAGES - PLEASE READ: \_\_\_\_\_**

**WARNING** - DRILLING ANY HOLES INTO THE LIGHTBAR IS NOT RECOMMENDED! THE RISK OF DAMAGING INTERNAL COMPONENTS AND THE RESULTING FAILURE OF THE LIGHTBAR WILL VOID ANY WARRANTY OF THIS PRODUCT.

**WARNING** - CARE MUST BE TAKEN WHEN DRILLING THROUGH THE ROOF OF THE VEHICLE NOT TO DRILL INTO ANY EXISTING WIRING AND NOT TO DRILL THROUGH THE HEADLINER OR SUPPORT MEMBERS OF THE VEHICLE. CHECK BOTH SIDES OF THE MOUNTING SERVICE PRIOR TO DRILLING. DE-BURR ANY HOLES AND REMOVE ANY METAL SHARDS OR REMNANTS. INSTALL GROMMETS INTO ALL WIRE PASSAGE HOLES.

**WARNING** - ROUTE WIRES ONLY IN LOCATIONS THAT ARE NOT SUBJECTED TO POTENTIAL WEAR. MAKE SURE TO AVOID ROUTING WIRES IN THE DEPLOYMENT AREA OF YOUR AIR BAG. REFER TO YOUR VEHICLE OWNER'S MANUAL FOR AIR BAG DEPLOYMENT ZONES.

**WARNING** - ALL CUSTOMER SUPPLIED POWER WIRES CONNECTING TO THE POSITIVE (+) OR NEGATIVE (-) BATTERY TERMINAL OR LOCAL CHASSIS GROUND (-) MUST BE SIZED TO SUPPLY AT LEAST 125% OF THE MAXIMUM CURRENT AND PROPERLY FUSED AT THE POWER SOURCE WITH APPROPRIATELY RATED FUSE.

**IMPORTANT:** When passing cables through fire wall or other sheet metal, insert grommet to protect the cable!

**WARRANTY RETURN PROCESS:**

Please contact your SoundOff Signal Sales Representative, Customer Services staff or our Technical Department (800.338.7337) for a RMA #, Return Merchandise Authorization Number.

The following information is required for issuance of the RMA #:

- Reason for returning the product\*
- Address where replacement product is to be shipped\*
- Telephone number where you may be reached\*
- SoundOff Signal invoice number on which product was purchased\*\*
- SoundOff Signal part number and serial number\*\*
- E-mail address where RMA # should be e-mailed\*\*
- Fax number where RMA # should be faxed\*\*

\* RMA # will not be given without this information.

\*\* If available, please provide this information.

SoundOff Signal will NOT accept returns without an RMA #. Each RMA # is good for only one (1) return and will expire (10) days after the date it was issued. Products must be shipped back to SoundOff Signal and the RMA # clearly marked on the outside of the package near the shipping label. Please use the following address on your shipping label:

SoundOff Signal  
ATTN: RMA # / Technical Services  
3900 Central Parkway  
Hudsonville, MI 49426

**WARRANTY EXCLUSIONS:**

Shipping & Handling, labor and service fees are non-refundable. SoundOff Signal is not liable for any damage due to installation or personal injury as a result of using SoundOff Signal product.

**WARRANTY FORFEITURE:**

Warranty will not be granted if the Warranty Return Policy & Procedure rules are not strictly followed. Physical damage resulting from customer abuse will void warranty. Warranty will also be voided if any SoundOff Signal and/or manufacturer serial tags, product stickers, seals, or the like, are removed, altered or tampered with. Returned product that is damaged by shipping via the RMA # procedure is not the responsibility of SoundOff Signal.

Document effective date on cover and below supersedes previously dated policies and statements.

There are no other warranties, expressed or implied, including, but not limited to, any implied merchantability or fitness for a particular use. SoundOff Signal reserves the right to modify this warranty statement at any time; or to discontinue, modify, or upgrade any products of its manufacture with design improvements without prior notice.

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Questions or comments that do not require immediate attention may be emailed to [techservices@soundoffsignal.com](mailto:techservices@soundoffsignal.com).