



**LIGHTING
EVOLVED**



**INSTALLATION
INSTRUCTIONS**



“Innovating to provide the world’s most advanced lighting systems”

UNITE

UNITE SERIES MODULAR LIGHT BAR
Installation Instructions & User’s Manual
(40”-50”)





PREPARATION

1. We recommend completely reading instructions before installing.
2. Consult your state regulatory agency regarding the use of LED lighting.
3. The placement of LED lighting should not restrict airflow to the radiator, block head lamps, turn signals, or parking lights.
4. Ensure you are using proper gauge wire and connectors when wiring without Vision X Wiring Harness.

WARNING: Bolts, Nuts, and Washers are Stainless Steel.
DO NOT USE pneumatic or electric tools to tighten and loosen.
 The hardware will permanently seize together.

INCLUDED WITH UNITE MODULE

NOTES:

- Depending on length, your Unite Modular Light Bar Kit will include a different amount of pieces labeled with "Qty: *".

1 Unite Module

LIGHT Qty: *

2 "H" Power Bridge

POWER Qty: *

3 Module Hardware

HARDWARE Qty: *



UNITE LIGHT ANGLE ADJUSTMENT INSTRUCTIONS

1. To adjust the beam angle, loosen the 4 Wing Mount Bolts on the sides of the light bar using a 13mm socket wrench. (Figure 11.)
2. Adjust the light bar to desired angle and re-tighten the 4 Wing Mount Bolts.



FIG. 11

MAINTENANCE

All Vision X models have been designed for maintenance free use. In the case that an LED lamp or other part replacement is needed, please contact your authorized service center.

INCLUDED WITH UNITE QUICK CONNECT RAIL

<p>1 Quick Connect Rail</p> <p>LIGHT RAIL Qty: 1</p>	<p>2 Wing Mounts</p> <p>MOUNTING Qty: 2</p>	<p>3 HD Deutsch Power Connector (Left)</p> <p>POWER Qty: 1</p>
<p>4 HD Deutsch Power Connector (Right)</p> <p>POWER Qty: 1</p>	<p>5 Set Screws</p> <p>HARDWARE Qty: 2</p>	<p>6 Wing Mount Bolts</p> <p>HARDWARE Qty: 4</p>
<p>7 Washers</p> <p>HARDWARE Qty: 2</p>	<p>8 Mounting Bolts</p> <p>HARDWARE Qty: 2</p>	<p>9 Nylock Nut</p> <p>HARDWARE Qty: 2</p>
<p>11 5mm Allen Key</p> <p>TOOL Qty: 1</p>	<p>12 2.5mm Allen Key</p> <p>TOOL Qty: 1</p>	<p>13 HD Pigtail</p> <p>WIRING Qty: 2</p>

UNITE MODULE ASSEMBLY INSTRUCTIONS

1. Included with each module is a set of allen head bolts and locking T-Nuts. Insert the two allen head bolt from the back and loosely thread on the locking T-Nuts with the rounded end facing towards the module. Leave about a 2-3 threads gap. (Figure 1.)
2. With all the modules prepped, decide which module will be on the left end (passenger side) of the bar. For this module you will need to install the Left Deutsch Power Connector on the left side of the module. To install, firmly push the connector into the module and secure using one of the set screws and the 2.5mm Allen Key. (Figure 2.)



FIG. 1



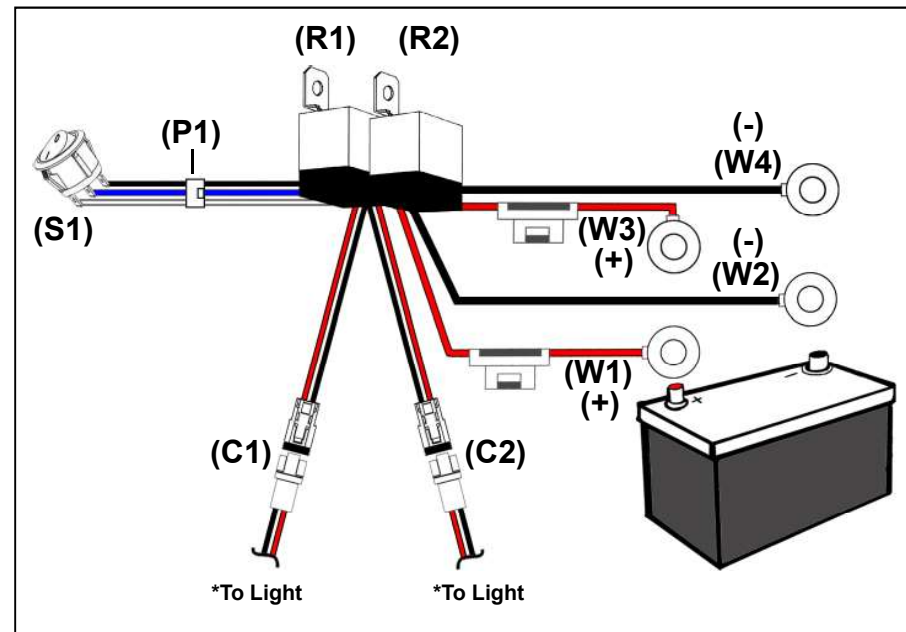
FIG. 2

3. Next, insert the "H" Power Bridge into the right side of the first module. The Bridge is not polarity specific, so there is no wrong way to insert it. (Figure 3.)



FIG. 3

**SINGLE CIRCUIT WIRING DIAGRAM:
FOR USE WITH VISION X WIRING HARNESS**



COMPONENTS KEY

- **Part (R1, R2):** Relay
- **Part (W1, W3):** Power Wire for Relay Coil
a. 9-32V DC Positive (+) Input Wire
- **Part (W2, W4):** Ground Wire for Relay Coil
a. 9-32V DC Negative (-) Input Wire
- **Parts (C1, C2):** Deutsch Connector for Light
a. Attached to 9-32V DC Positive (+) Power Wires
- **Part (S1):** Switch
- **Part (P1):** Switch Plug

MOUNTING INSTALLATION INSTRUCTIONS

1. Determine where the light/lights will be placed.
2. Place mounting bracket with light to desired location. Using a marker or pick tool, mark the center point of the bolt hole on the mounting surface.
3. Set the light aside. Drill out a large enough hole to fit the mounting bolts.
4. Using a 13mm socket wrench, secure the light to the mounting surface with the provided Mounting Bolts followed by a Washer and Nylock Nut.

WIRING INSTALLATION INSTRUCTIONS

1. Find a suitable place to mount Relays Part (R1,R2) leaving enough room for Power & Ground wires Part (W1,W2, W3, W4) to reach the battery & the Deutsch connectors Part (C1, C2) to reach the Light. Mount Relays.
2. Run Power wires (W1, W3) & Ground wires (W2, W4) to the battery. Connect the Power wire (W1, W3) to the Positive (+) battery terminal and connect the Ground wire (W2, W4) to the Negative (-) battery terminal.
3. Run the Deutsch connector wires (C1, C2) to the light and plug in.
4. Disconnect the Switch Part (S1) at the white Plug Part (P1) and run the wire through the vehicles fire wall to desired mounting location inside the Cab [using a factory rubber or plastic grommet is suggested].
5. Drill the hole to the required size for the Switch (S1) and mount to desired position.
6. Reconnect the Switch (S1) to the Harness.
7. Test Light.

MULTI-CIRCUIT WIRING NOTES:

- For **Multi-Circuit Wiring**, you would follow the same steps as above, but utilize multiple harnesses depending on the amount of circuits used.

4. Prep the Quick Connect Rail by installing the left (passenger side) wing mount using 2 wing mount bolts and a 13mm socket wrench. (Figure 4.)
5. Slide the first module onto the quick connect rail by aligning the T-Nuts on the back of the module. **NOTE:** If you find it difficult to slide on, try loosening the T-Nuts a couple more threads. (Figure 5.)



FIG. 4



FIG. 5

6. With the first module on, continue to slide on the following modules making sure to add the "H" Power Bridge to each module before sliding it on. (Figure 6.) **NOTE:** Firmly press each module into the next to ensure the "H" Power Bridge is making solid contact.
7. For the last module, you will need to install the Deutsch Power Connector on the right side of the module before sliding it onto the mounting rail. To install, firmly push the connector into the module and secure using one of the set screws and the 2.5mm Allen Key. (Figure 7.)



FIG. 6



FIG. 7

8. Slide on the last module with Deutsch Power Connector attached. (Figure 8.)
9. Install the wing mount using 2 Wing Mount Bolts and a 13mm socket wrench. (Figure 9.)



FIG. 8



FIG. 9

6. Adjust all the modules so that they are centered on the bar. Once centered, secure all the modules to the rail by tightening the bolts on the back of each module using the 5mm Allen Key. (Figure 10.)



FIG. 10

UNITE MODULE MULTI-CIRCUIT INSTRUCTIONS

THIS FEATURE IS ONLY AVAILABLE WITH THE PURCHASE OF ADDITIONAL UNITE POWER ACCESSORIES.

- To utilize the Multi-Circuit power accessories, add the Deutsch Power Connectors and Power Plugs/Caps to the specific sections of the Unite Bar you choose using the provided set screws and 2.5mm Allen Key.

NOTE: For the middle section we recommend using the 2 provided Deautsch Power Connectors on each end of the section and wiring them together to ensure sufficient power.

NOTE: As shown in the example below, the red “|” indicates where the “H” Power Bridges are not used.

- **EXAMPLE:** The Deutsch Power Connectors Labeled “1” would be wired together utilizing a dual harness to a switch so that both ends of the Unite Bar would be turned On/Off simultaneously.

Similarly, the Deutsch Power Connectors Labeled “2” would be wired together with a separate dual harness & switch so that it may be power independently from the outer section of the bar.

