



# FORD UNIVERSAL GRILL UNDERMOUNT



FORD SD 250/350 (2017 - 2023)

**53073**

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## INSTALLATION GUIDE

FOR ALL OUR USER MANUALS PLEASE VISIT [WWW.LMI.BIZ/INSTALLATION-ASSISTANCE](http://WWW.LMI.BIZ/INSTALLATION-ASSISTANCE)

# MANUAL FOR END USER AND INSTALLER

Thank you for your purchase. At **LMI** we strive to ensure our products fit your vehicle correctly and with no issues. However, due to the large number of manufacturer models and trim levels, it is difficult to test every scenario. If you find that something does not fit correctly, please reach out to us so we can make the appropriate adjustments.

Please understand that making modifications to your vehicle can void the manufactures warranty, and in some cases my cause damage to your vehicle, cause your vehicle handle differently, affect your vehicle safety system, affect your gas mileage, or cause wind noise. **LMI** is not responsible for any adverse effects this product may cause to your vehicle.

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## PRODUCT SPECIFICATIONS

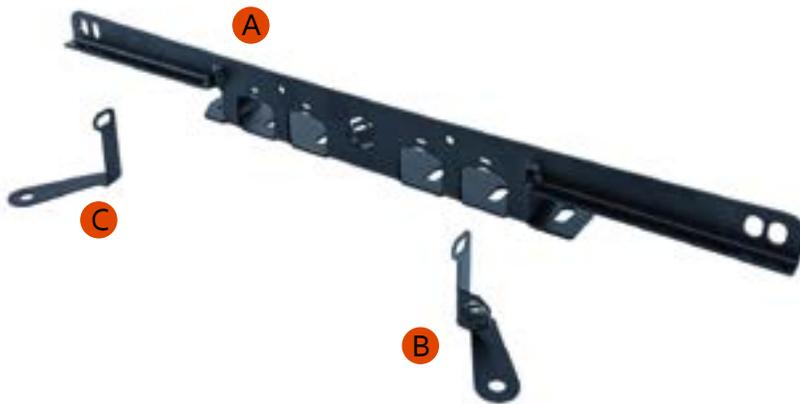
Product Name	Vehicle Fit	Product ID	Product Size	Weight	Light Spacing Options
Ford Super Duty Universal Grill Undermount	Ford Super Duty 250 & 350 2017 - 2023	53073	(635 x 63.5)mm (25 x 2.5)in	4 lbs	2 or 4 Light

Disclaimer:

Ford is a common law trademark and/or federally registered trademark of the Ford Motor Company in the United States and/or other countries. Nacho is a common law trademark and/or federally registered trademark of Nacho LED LLC in the United States and/or other countries.

# INCLUDED IN THE BOX

Several components are included in the product packaging, each of which is critical for your successful setup. If any parts are missing please reach out to us for assistance.



- A** LM1 Undermount Light Bar
  - B** LM1 Support Bracket, Driver Side
  - C** LM1 Support Bracket, Passenger Side
- Nacho Quatro Lights

# REQUIRED TOOLS

 Plastic Pry Bar

 13mm, 15mm, 18mm Socket

 Ratchet

 Socket Extension

 Diagonal Cutter

 Utility Knife

 Painters Tape

 Safety Glasses

 Grab a Buddy, 2 Person Job

## INTENDED USE

The **LMI** Undermount Light Bar is intended to provide mounting options specifically designed for Nacho Quatro series lights. Other aftermarket lights have not been tested.

Any use other than the approved intended use described above is considered an unintended use. **LMI** cannot be held responsible for possible consequential damage caused by improper, incorrect or inadvisable use.

## SYMBOLS USED

The following symbols are used in this manual to draw attention to specific topics or actions

### WARNING

A warning indicates the possibility of injury to the user and/or damage to the product should the user not perform the procedures as described.

### ATTENTION

A note alerts the user to potential problems which may occur if a procedure is not carried out as described.

# INSTALLATION PREPARATION

Before beginning your installation, please ensure that you have received all components listed in the “Included in the Box” sections above. If you are missing anything please reach out to us.

Prepare your work space and gather all the required tools listed above. Place painters tape on the vehicle around the installation area to protect your vehicle.

### ATTENTION

If you have elected to purchase a product with powder-coat, take caution not to scratch or chip the coating by placing the product on a protected surface.

### WARNING

Fabricated products are made from heavy gauge steel and will frequently have sharp edges. If the product is dropped or slid across your vehicle, it can cause damage.

# INSTALLATION

After your work space is prepared, install the **LMI** Light Bar by completing the following steps.

1. Remove the two bumper trim pieces around the tow hooks with the pry-bar to gain access to the bumper mounting bolts. Retain covers for installation at a latter step.

## ATTENTION

Use caution when removing the tow hook trim pieces. The snaps are delicate and brake.

## ATTENTION

**LMI** Light Bars are heavy and can be awkward to handle. Grab a friend to help!



2. Locate the bumper wire harness on the inside of the frame on the driver side. Unplug the harness.

### ATTENTION

Take caution to not damage the cable when disconnecting the connector.



3. Remove the four 15mm bolts (two per side) from the bumper braces located in the fender wells on both driver and passenger sides of the vehicle. Retain hardware for re-installation at a later step.



4. Remove the eight 18mm bumper bolts (four per side) located in the tow hook cavities. Retain bolts and nut plates for re-installation at a later step.

### WARNING

The bumper is very heavy and unbalanced, use a friend to remove it from the vehicle.

### ATTENTION

The bumper can easily be scratched, when removing it from the vehicle place it on a moving blanket for protection.

Pay special attention to the wiring harness and ensure it is free from obstructions and disconnected prior to removing the bumper.



5. On the bumper, remove the wiring clips that secure the OEM wire harness to the bumper to gain access to the light bar mounting location. Retain mounting clips for re-installation at a latter step.



6. Use diagonal cutters and a utility knife to trim the plastic gussets on the inside of the bumper as shown to make room for the **LMI** Undermount Bar.



7. Remove the two indicated OEM bolts using a 13mm socket. Retain hardware for re-installation at a later step.



8. Install the **LMI** Undermount Bar onto the bumper by aligning the two mounting holes from the previous step. Re-install the two OEM fasteners and tighten finger tight. Fasteners will be fully tightened at a later step when the lights are installed and aligned.



9. Install the Nacho Quatro lights on the **LMI** Undermount Bar using the provided light mounting brackets and hardware. Install the light mounting brackets to be mounted from the top side of the Nacho Quatro lights.

Adjust the position of the **LMI** Undermount Bar and the Nacho Quatro lights until the lights are aligned as desired. Tighten all the hardware.

## ATTENTION

Ensure that the Nacho logo is right side up to ensure the desired light output.



10. Install the two provided **LMI** support brackets, driver and passenger side, by removing the OEM plastic clip from the bumper and the outer most mounting fastener on the two outer most Nacho lights as shown. Once the support bracket is in place re-install the plastic clip and the Nacho mounting fastener and tighten.

## ATTENTION

Use caution when removing the OEM plastic clips. The clips are fragile and can be damaged easily.



11. Wire the Nacho lights per manufactures instructions. Use provided zip-tie locations on the **LMI** Undermount Bar to secure wiring in place. Direct the wire harness toward the passenger side of the vehicle. The OEM fuse box and up-fitter connections are located on the passenger side of the engine compartment.



12. Reinstall the bumper back onto the vehicle with the **LMI** Undermount Bar in place. Reinstall the OEM eight fasteners and nut plates previously removed. The bumper is equipped with slots to allow alignment side to side and up & down. Adjust the position of the bumper to align it with the vehicle and tighten the bumper fasteners.

### WARNING

The bumper is very heavy and unbalanced, use a friend to place it back on the vehicle and align it.

### ATTENTION

Pay special attention to the wiring harness and ensure it is free from obstructions and pinch-points prior to installing the bumper.

Ensure that the **LMI** Undermount Bars and Nacho Quatro are located where you want it prior to permanently installing the bumper.



13. Reinstall the bumper braces using the previously removed four 15mm bolts (two per side) located in each of the front fender wells and tighten fasteners.



11. Reattach the bumper wiring harness, and complete the wiring of the Nacho Quatro to the up-fitter connections.



Time to take your rig out for a test and show off your new light bar to your friends! Once again, thank you for your purchase. We hope you enjoy your newly installed product.

# MAINTENANCE

## ATTENTION

Powder coat is a relatively durable coating. All our products are sand blasted prior to powder coating to ensure the bond is optimized. However, it is possible to chip or scratch the coating. When this happens use metal bonding paint to touch up the damaged areas. This will prevent rust in the damaged area.

## CLEANING

- **LMI** products can be cleaned using any standard automobile cleaning products.
- Never use solvents or petroleum-based cleaners as they will cause damage to the coating.

# PRODUCT DIMENSIONS

