

INSTALLATION MANUAL

321800

Level of Difficulty

Moderate

Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle and proper tools and equipment.

Parts List

Qty	Description
1	Grille guard*
1	Mounting bracket, driver side
1	Mounting bracket, passenger side
1	Upper mounting bracket, driver side
1	Upper mounting bracket, passenger side
2	Double nut plate, M12 - 1.75mm
4	Hex bolt, M12 - 1.75mm x 35mm
4	Lock washer, M12
4	Flat washer, M12 x 32mm OD x 3mm
4	Hex bolt, M10 - 1.5mm x 30mm
8	Flat washer, M10 x 24mm OD x 2.2mm
4	Nylock nut, M10 - 1.5mm
2	Hex bolt, M8 - 1.25mm x 40mm
2	Hex bolt, M8 - 1.25mm x 30mm
6	Flat washer, M8 x 22mm OD x 2mm
2	Lock washer, M8
2	Nylock nut, M8 - 1.25mm

* Grille guard sold separately

Tools Required

Ratchet	Socket set
Torque wrench	Socket extensions

Torque Specifications

M8 bolt	22 ft-lbs.
M10 bolt	42 ft-lbs.
M12 bolt	74 ft-lbs.
M16 bolt	150 ft-lbs.
7/16" bolt	30 ft-lbs.
1/2" bolt	40 ft-lbs.

Use above torque setting unless otherwise noted

Product Photo



NOTICE

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

Periodic inspection of your product should be performed to ensure all hardware and / or components remain secure.

To help prevent damage to the product or vehicle, refer to the specified torque specifications when securing hardware during the installation process.

Maintenance

Mild automotive detergent may be used to clean the product. Do not use dish detergent, abrasive cleaners, abrasive pads, wire brushes or other similar products that may damage the finish.

Step 1

Remove the front bumper by removing the two nuts on the front of the vehicle, near the tow hooks and one nut on the back side of the bumper.

Repeat on the other side of the vehicle.



Step 2

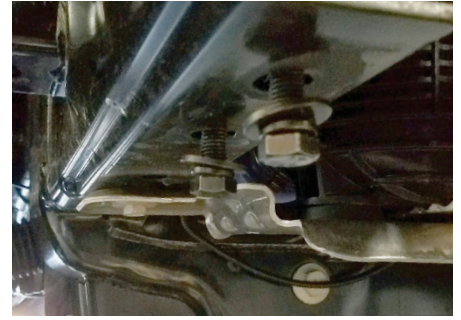
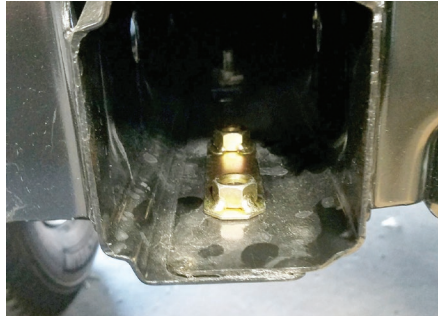
With the bumper removed, remove the tow hook cover and tow hook from each side of the vehicle.



Step 3

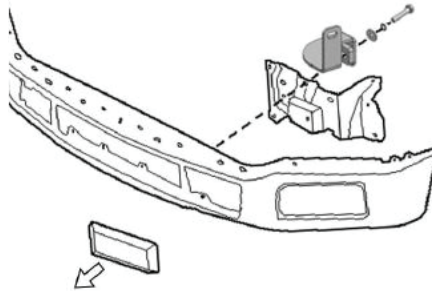
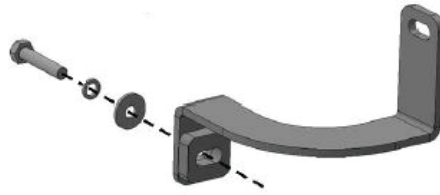
Install the nut plate in the frame with the M12 hex bolts, lock washers and flat washers.

Snug the hardware, but do not fully tighten.



Step 4

Before installing the bumper onto the vehicle, install the two mounting brackets onto the back of the bumper. Remove the two factory bolts and use the M8 hex bolt, lock washer and flat washer to secure to the bumper.



Step 5

With the bracket installed on the back of the bumper, reinstall the bumper to the truck using the factory nuts you removed in step 1.



Step 6

Carefully remove the bolts on the bottom of the frame and install the bottom mounting bracket through the tow hook opening below the frame.

Snug the hardware, but do not fully tighten.

Note: A long screw driver or magnet on a rod can be used to adjust the nut plate.



Step 7

With the brackets installed, lift the guard (with assistance) into place and install one M8 x 30mm hex bolt, two M8 flat washers and one M8 nylock nut into the top bracket.

Install four M10 x 30mm hex bolts, eight M10 flat washers and four M10 nylock nuts on the lower bracket.



Step 8

Once properly adjusted, fully tighten the four M12 hex bolts securing the frame brackets to the bottom of the frame and / or tow hook. Tighten the bolts securing the guard onto the bottom bracket, followed by the top bracket bolts.



Step 9

With the grilled guard installed, periodic inspections should be performed to ensure all mounting hardware remains tight.

To protect your investment, see the 'Notes and Maintenance' section on page one.

Congratulations on the installation of your new LUVERNE Prowler Max™ Grille Guard.

