

## 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	Ring Assembly
1	Mounting Bracket, driver side
1	Mounting Bracket, passenger side
1	Upper support bracket
14	Flat washer, M12
6	Lock washer, M12
6	Socket head bolt, M12 x 35mm
6	Hex nut, M12
2	Hex bolt, M8 x 45mm
2	Flat washer, M8
2	Lock washer, M8
4	Socket head screw, M6 x 20mm
2	Combo bolt, M6 x 20mm
4	Flat washer, M6
1	Hex key, 8mm
1	Hex key, 4mm

## Tools Required

Socket, 10mm	Socket wrench
Socket, 12mm	Phillips screwdriver
Socket, 14mm	Utility knife
Socket, 18mm	--

## Torque Specifications

M6 bolt	8 ft-lbs.
M8 bolt	20 ft-lbs.
M12 bolt	70 ft-lbs.

Use above torque setting unless otherwise noted

## Product Photo



## NOTICE

Visit [www.luvernetruck.com](http://www.luvernetruck.com) for a full-color copy of this instruction manual, as well as helpful videos, guides and much more!

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.

## Product Registration and Warranty

LUVERNE stands behind our products with industry-leading warranties. To get copies of the product warranties, register your purchase or provide feedback, visit: [warranty.curtgroup.com/surveys](http://warranty.curtgroup.com/surveys)

### Step 1

Locate and remove the bolts securing the lower air dam to the vehicle frame.

Remove the air dam.



### Step 2

On the driver side of the vehicle, locate and remove the two inside bumper bolts.

Repeat on the passenger side of the vehicle.



### Step 3

Place one M12 washer in the lower bolt location between the grille guard bracket and the vehicle frame. Attach the driver-side bracket reusing the factory hardware.

Repeat on the passenger side of the vehicle.



### Step 4

Remove the license plate holder and remove the two bolts in the center of the bumper.



### Step 5

Use two M8 x 45mm bolts and M8 flat washers to secure the center support bracket to the vehicle.



### Step 6

Secure the grille guard to the lower mounting brackets using the supplied M12 hardware.



### Step 7

Secure the grille guard to the center support bracket using the supplied M6 hardware.



### Step 8

Secure the license plate bracket to the lower tube using the supplied M6 hardware. Tighten all hardware.

**Note:** Secure the license plate so that it is hanging down over the lower tube to prevent interference issues with driver assist sensors.

### Step 9

Hold the lower air damn in position and mark it where it contacts the lower mounting brackets. Trim the air damn so that it clears the bracket and re-install.

## Step 10

Congratulations on the installation of your new LUVERNE SolidShield™ grille guard.

With the grille 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.

