

## Level of Difficulty

Easy

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

Item	Qty	Description
1	1	Upright, driver / left side
2	1	Upright, passenger / right side
3	1	Mounting bracket, driver / left side
4	1	Mounting bracket, passenger / right side
5	1	Adjustable mounting bracket, driver / left side
6	1	Adjustable mounting bracket, passenger / right side
7	2	Channel bracket, universal
8	1	Grille guard
9	1	Magnet kit
10	6	Flange bolt, 5/8"-11 x 3-1/2", grade 8, black
11	4	Carriage bolt, 1/2"-13 x 1-1/2"
12	6	Hex bolt, 5/8"-11 x 1-3/4"
13	4	Hex bolt, 7/16"-14 x 1-1/4"
14	2	Shoulder bolt, 5/8" x 7/8" x 1/2"-13
15	6	Flange nut, 5/8"-11, grade 8, black
16	4	Flange nut, 5/8"-11
17	2	Nylock nut, 5/8"-11
18	6	Nylock nut, 1/2" -13
19	4	Belleville washer, .63" x 1.25" x .04" x .082"
20	4	Flat washer, 7/16"
21	8	Flat washer, 9/16"
22	2	Flat washer, 5/8"

## Tools Required

Allen wrench, 5/16"	Wrench, 3/4"
Ratchet	Wrench, 15/16" (x2)
Torque Wrench	Torx bit set
Socket, 5/8"	--

## 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)

## Torque Specifications

7/16" bolt	30 ft-lbs.
1/2" bolt	65 ft-lbs.
5/8" bolt	128 ft-lbs.
Use above torque setting unless otherwise noted	

### Step 1

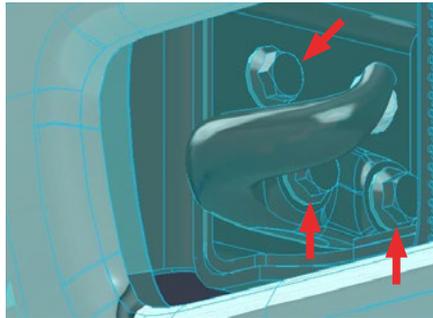
Use a Torx bit to remove the four bolts securing the factory bumper to the vehicle.



### Step 2

Remove the two hook bolts and the bolt above the tow hook.

Install the mounting brackets and tow hooks using three 5/8"-11 x 3-1/2" flange bolts and 5/8"-11 grade 8 flange nuts.



### Step 3

Carefully tilt the bumper to clear the brackets. Reinstall the bumper.

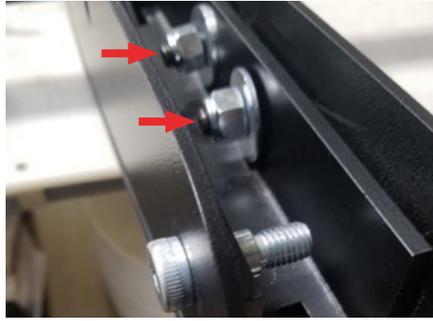
### Step 4

Lay the uprights on a flat surface with the center tube opening to the middle. Insert four 7/16"-14 x 1-1/4" hex bolts and 7/16" washers to secure the ring to the uprights. Use a 5/8" socket to tighten.



### Step 5

Place a channel bracket inside the upright. Secure to the upright with two 1/2"-13 x 1-1/2" carriage bolts, 9/16" washers and 1/2"-13 nylock nuts. Use a 3/4" wrench to snug the hardware, but do not fully tighten at this time.



### Step 6

Insert a shoulder bolt through the pivot hole in the upright and channel bracket. Place a belleville washer on the shoulder bolt. The smaller diameter of the washer should be touching the channel bracket.



### Step 7

Place a pivot bracket on the shoulder bolt. The magnet and bolt flange should face the inside of the uprights. Place a second belleville washer on the shoulder bolt with the larger diameter towards the pivot bracket, followed by a 1/2" nylock nut.

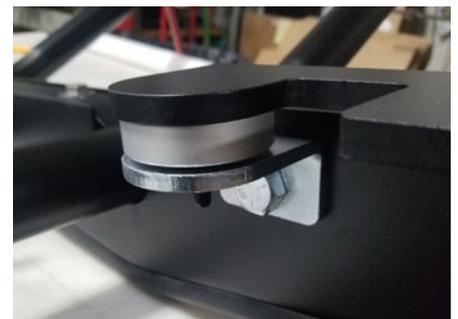
Tighten with a 5/16" allen wrench and a 3/4" wrench.



### Step 8

Secure the magnet to the top hole with a 5/8"-11 x 1-3/4" bolt, 5/8" diameter washer and 5/8" nylock nut. The safety pin magnet bracket should be on the driver side.

Snug the hardware, but do not fully tighten.



### Step 9

Using 5/8"-11 x 1-3/4" bolts, 9/16" flat washer and 5/8" serrated flange nuts, secure the pivot brackets to the mounting brackets. Adjust and center as needed before tightening.



### Step 10

Adjust the magnet and guard angle to preferred location, then tighten the magnet bolts. Snug the channel bracket carriage bolts, but do not over tighten as it will make the guard harder to open and close.

## TROUBLESHOOTING

### Issue

Guard not opening / closing easily.

### Solution

Check to make sure the pivot brackets are parallel with the uprights. If brackets are parallel, loosen carriage bolts in the channel bracket in small increments until guard moves easier.