Installation Instructions
Modular Bumper - Front

Installation Tips

Before you begin installing your new Modular Bumper, please read all the instructions thoroughly.

⚠️ WARNING Do not rely in any way on the components of this product to protect against injury or death in the event of an accident. Never operate the vehicle in excess of manufacturer’s specifications.

Read and follow, precisely, all installation instructions provided when installing this product. Failure to do so may result in a poor fit and could place occupants of the vehicle in a potentially dangerous situation.

WEAR SEAT BELTS AT ALL TIMES

⚠️ CAUTION Safety glasses should be worn at all times when installing this product.

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3 - Moderately Difficult
# Parts List
- Required parts for installation

## Sections 2 to 6
**Bumper, Light Housings, Light Rings, Winch Plate, T-Plates**

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<td>Bumper</td>
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## Sections 2 to 7
**Light Housings; Light Rings, Canister Bracket, Wiring Extension**

<table>
<thead>
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Vehicle Application:
Jeep® Wrangler 2007-2017
Part Number 44945

Installation Instructions
Modular Bumper - Front

Parts List
- Required parts for installation

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<td>M8 Nylon Lock Nut</td>
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**Step 1**

Use a flat blade screwdriver or pliers to pry out the four (4) fasteners that secure the edge of the plastic skid plate.

**Step 2**

Use a Phillips screwdriver to remove the push fasteners that secure the brackets on the skid plate to the vehicle frame.

**Step 3**

Use a socket wrench to remove the four (4) nuts on each side of the factory bumper that secure the bumper to the vehicle frame.

Access these nuts from behind the bumper.

Slide the bumper off the studs.

**NOTE:** View above shown with bumper removed to indicate location of nuts.

**CAUTION:** If you have a Jeep® with factory fog lights, you must disconnect them before removing the factory bumper.
**Step 1**

Remove the fog lights from the original bumper.

Use four (4) #12 x 1/2” Pan Head Screws #486.49 on each light to attach the light to a Light Housing #479.20.

Make sure that the light adjustment screw is facing down (toward the thinner section of the Light Housing).

**Hardware**

- **Light Housing**
  - Part #479.20
  - Qty. 2

- **Light Ring**
  - Part #479.21
  - Qty. 2

- **#12x1/2” Pan Head Screw**
  - Part #486.49
  - Qty. 8

- **#10x1” Pan Head Screw**
  - Part #486.51
  - Qty. 4

**Step 2**

Attach each light assembly to the Bumper, using one Light Ring #479.21 with two (2) #10x1” Pan Head Screws #486.51 per light assembly.
**Section 3**  Reposition the Vacuum Canister

**Step 1**

1. Remove the bolts indicated that attach the vacuum canister to the vehicle bracket, and move the canister away from the bracket. Set the bolts aside for later use.

2. Using an angle grinder, cut off the tab on the bracket that the vacuum canister was bolted to, along a line indicated by the dashed line above. The tab must be ground completely off, so that the area where the tab was is completely flush with the vertical flange of the bracket.

**NOTE:** Apply a protective coat of paint after cutting away the vacuum canister bracket tab to prevent corrosion.

**Step 2**

3. Replace the bolt at the back of the vacuum canister, which attaches the canister to the vehicle bracket, and install it upside down, from the bottom up, and with the flange on the canister underneath the bracket tab.

4. Swivel the canister 90° as shown above. The remaining flange on the canister will attach to a provided bracket later in the installation process.
Step 1

Drop a Threaded T-Plate into the pocket in the vehicle frame as shown above (left side shown). The weld-nut on the T-Plate should be on the side facing away from the center of the vehicle. Repeat this on the right side of the vehicle.

Step 2

1. Slide the Winch Plate #518.71 in between the vehicle frame members from underneath, and then rotate the front part of the winch plate up and into place.

   Align the holes in the Winch Plate with the holes in the vehicle frame members and with the holes in the T-Plates.

2. Use two (2) M12-1.75x25mm Hex Head Bolts #527.80 and two (2) M12 Flat Washers #414.17 to loosely secure the Winch Plate in place - do not tighten these fasteners at this time.

   You may need to use a hammer and a wood block to nudge the Winch Plate into place.

   If the Winch Plate won’t slide into position, check to see if you ground enough of the vacuum canister bracket tab off.

Tools

- Socket wrench and 18mm socket

Parts List

- Winch Plate Part #518.71 Qty. 1
- M12 Flat Washer Part #414.17 Qty. 2
- M12 - 1.75x25mm Hex Head Bolt Part #527.80 Qty. 2
- Threaded T-Plate Part #522.03 Qty. 2
**Section 5**  
Attach Winch Plate (cont.) & Attach Vacuum Canister Bracket

### Step 1

The Winch Plate will be in the correct position when the holes in the vehicle bumper mounting plates indicated above are aligned with the holes in the Winch Plate.

### Hardware

- **Vacuum Canister Bracket**  
  Part #479.21  
  Qty. 1

- **M8 Nylon Lock Nut**  
  Part #470.06  
  Qty. 1

- **M8 - 1.25x30mm Hex Head Bolt**  
  Part #522.02  
  Qty. 1

### Tools

- **Socket wrench**
- **and 13mm socket**

### Step 2

Attach the Vacuum Canister Bracket #479.21 to the back side of the Winch Plate, using one (1) M8-1.25x30 Hex Head Bolt #522.02 and one (1) M8 Nylock Nut #470.06.

Use the bolt you removed from the vacuum canister bracket in an earlier step to attach the vacuum canister to the Vacuum Canister Bracket.

The canister flange will sit below the Vacuum Canister Bracket, and the bolt will be installed from the bottom of the bracket.

The vehicle is not shown in the above diagram for clarity.
Section 6  Attach Bumper

**Step 1**  518.76

Slide the Bumper onto the vehicle bumper mounting plates.

There are four (4) studs on each side of the bumper. These studs go through the four (4) holes in each bumper mounting plate.

**NOTE:** It may require two people to slide the Bumper into place.

**Step 2**  422.76  422.77

Secure the Bumper to the vehicle bumper mounting plates with eight (8) M10 Nylon Lock Nuts #422.76 and eight (8) M10 Flat Washers #422.77.

Tighten all fasteners at this time.

**Hardware**

- Front Bumper
  - Part #518.76
  - Qty. 1

- M10 Nylon Lock Nut
  - Part #422.76
  - Qty. 10

- M10 Flat Washer
  - Part #422.77
  - Qty. 8

**Tools**

- Socket wrench and 16mm socket
Section 7  Plug Fog Light Wiring Extensions into Fog Lights and Wiring Harness

Step 1  543.18

Plug the Fog Light Wiring Extensions #543.18 into the light connector pigtail, and into the vehicle wiring harness.

Check that the Fog Lights work.

Hardware

Fog Light Wiring Extension
Part #543.18
Qty. 2
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