



**18+ JEEP WRANGLER JL/JLU**

**20+ JEEP GLADIATOR JT**

**FRONT SKID PLATE INSTALLATION INSTRUCTIONS**

JJTFSKD1

Thanks for purchasing a Reaper Off-Road skid plate for your Jeep Wrangler JL or Gladiator JT. Our team has worked to ensure that this product is the premium in performance, quality, and fitment. We are proud to say that this product will enhance the look and off-road performance of your vehicle. We encourage you to read through the following steps, and check the included Bill of Materials before beginning. Please follow these steps to ensure that your installation goes as planned.

Our products are specifically designed with ease of installation in mind. However, if you are uncomfortable with the following instructions please seek professional assistance. Reaper Off-Road will not be held liable for harm or injury to yourself or your vehicle during installation or use of this product.

***Recommended Tool List***

- Plastic fastener removal tool
- Flat head screwdriver
- Phillips screwdriver
- Ratchet
- Metric socket set
- Inch socket set
- Allen wrench set
- Blanket or towel





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## DISASSEMBLY - JL/JT

Steps may vary depending on trim level and optional equipment. If you are adding this product to one of our front bumpers you can skip ahead to step A3.

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- A1.** Remove the plastic skid plate by using an 8mm socket to remove (2) screws at the bottom of the panel. You will also remove (8) plastic retainer clips along the front edge under the bumper. The clips may pull up by hand, or you can use a removal tool.
- A2.** Remove the brace that runs side to side. Use a 16mm socket to remove (2) bolts. The brace is tabbed into the frame and may feel stuck. Use a mallet to tap it up and out.
- A3.** Remove the outer nuts at the bumper mounting pads using an 18mm deep socket. You will only need to remove the outer (2) from each side. Depending on your front bumper, it may help to loosen the inner nuts as well. Most bumpers do not need to be fully removed.
- A4.** Remove the outer left and right L-brackets from behind the mounting pads. Remove the bolt using a 16mm socket.
- A5.** For Mojave trim - remove the bolt holding the shock reservoir hose at each side. Keep the bolts for reinstall. Leave the clip installed in position.
- A6.** For Mojave trim - locate the plastic bracket around the shock reservoir. Remove the 2 screws that hold the plastic bracket to the metal bracket behind it. Keep the screws for reinstall. Leave the plastic bracket on the reservoir.
- A7.** Depending on trim level, remove any other brackets bolted to the inside of the lower crash bar area.



*Detail 1: Remove lower push clips*



*Detail 2: Remove bolts on brace*



*Detail 3: Outer mounting bolts & outer L brackets*

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## ASSEMBLY

# 18+ WRANGLER JL/JLU 20+ GLADIATOR JT

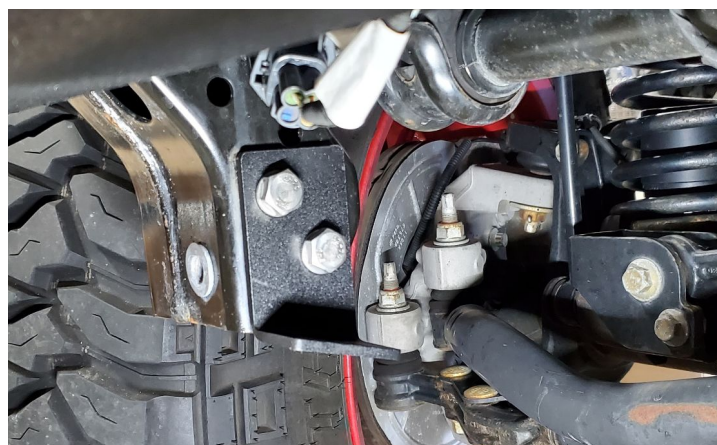
## FRONT SKID PLATE

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- B1.** Start by installing the mid frame mounting brackets at the inner left and right sides. Some vehicle trims will already have threads installed in the frame. If you have the threads use the M10 bolt(B) and washer(F) provided. If you do not have the threads you will need to position the provided double nut plate inside the frame and install the brackets. The brackets are directional and will match the angle contour at the bottom of the frame when positioned correctly. Use a 17mm socket to secure, but do not fully tighten yet.
- B2.** Install a M10 bolt(B) and washer(F) at the outside left and right sides, where the L-brackets were removed. Leave the bolt loose for now.
- B3.** Hang the side trim plates on the M10 bolt.
- B4.** Install the lower M10 bolt(B) into the side trim plates. You will need to position the tear drop nut plate inside of the frame behind the hex shaped hole. Use a 17mm socket to secure side plates in place, but do not fully tighten.
- B5.** For Mojave trim - connect the hose retaining clip using the original hardware, but do not fully tighten.
- B6.** If you choose to paint the accent plate, please do so before installing. Install the accent plate to the inside of the main skid plate. Use (4) 1/4"-20 nuts(C) and a 7/16" socket to secure. If you choose to paint the accent plate, please do so before installing. It can be done later, but it is a bit more difficult.



*Detail 1A: Shown with factory threads*



*Detail 1B: Passenger side bracket installed*



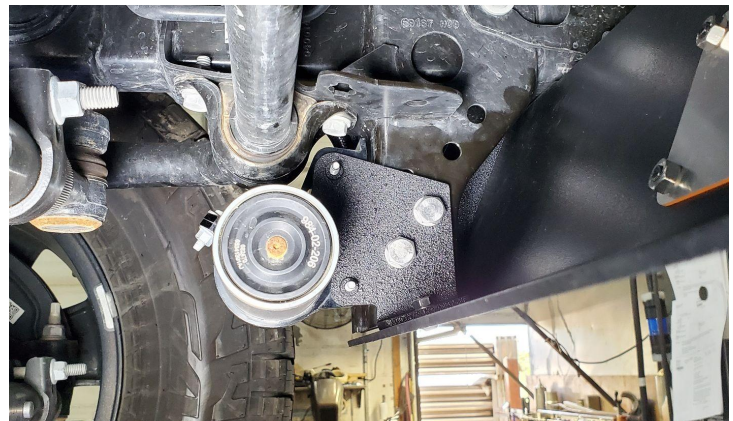
*Detail 4: Side trim plate installed*

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- B7.** Install the main skid plate to the lower outer studs by hanging it on the studs from the bumper. Use the provided M12 nuts(D), washers(G), and lock washers(H) to hold in place. Do not fully tighten yet.
- B8.** Secure the bottom of the skid plate to the mid frame brackets using the provided 1/4" screws(A), washers(E), and nuts(C). Use a 7/16" socket and a 5/32" hex key.
- B9.** Starting with the M12 nuts(D) behind the bumper, go back and tighten all hardware. Adjust alignment as needed.
- B10.** For Mojave trim - reinstall the reservoirs to the mid mount brackets using the original hardware.



*Detail 6: Install skid plate to lower outer studs*



*Detail 7: Main panel secured to mid frame brackets*

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