



20+ JEEP WRANGLER JT

REAR BUMPER INSTALLATION INSTRUCTIONS

JTRB

Thanks for purchasing a Reaper Off-Road bumper for your 20+ Jeep Wrangler 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

- Metric socket set
- Inch socket set
- Ratchet
- Hex key set
- T50 Torx bit
- Breaker bar or long handle ratchet
- Blanket or towel
- Pocket knife
- Wire stripper





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DISASSEMBLY

Steps may vary depending on trim level and optional equipment.

1. Disconnect the trailer plug harness from inside the bumper.
2. Disconnect sensor and light harnesses from the plugs along the frame at each side. Free up any retaining clips holding the wiring to the frame.
3. Remove the rear licence plate for access to the hardware behind the plate. Do not remove the hardware yet.
4. Use a 16mm deep socket to remove the (2) nuts at each side securing the bumper to the outer mounting brackets.
5. Use a T50 Torx bit to remove the (2) bolts holding the bottom center of the bumper to the frame rail.
6. If equipped, the rock rails at the bed corners must be removed before the bumper. Use a 15mm socket to remove (3) bolts per side going up to the bracket and (2) bolts per side going to the rear bumper.
7. Remove the bolts from the license plate area using a 16mm socket. The bumper will now be loose.
8. Remove the bumper and set it aside.
9. Remove factory tow hook(s) from the frame using a 21mm socket. This may require a long handle ratchet or a breaker bar.
10. Begin disassembling the components from the stock bumper, starting with the trailer plug. Squeeze the clip to release.
11. Remove back up sensors from the housings. You will need to pry the tabs out to free them.
12. Unplug the wire harness from the license plate lights.

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Detail 2: Disconnect all wiring harnesses



Detail 4: Remove nuts from mounting brackets



Detail 7: Remove the bolts from the center

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13. Use a removal tool to free the wire harness from the bumper. You may need to unplug at the sensors to pull the wiring through the bumper. Keep track of the positions of the sensors.
14. Remove the sensor housings by squeezing the tabs in. Keep track of the positions, some are directional.

ASSEMBLY

15. Install the sensor housings into your new bumper. Due to variation between trim levels, you will need to use a knife to trim off the small tabs to make them fit. On Rubicons, the inner two housings are angled. Those will be moved to the outer positions. Make sure the housings click together properly.

Plugs (N) are provided for vehicles that are not equipped with rear sensors.

16. Install the sensors and wire harness in the same orientation as before.
17. Accent plates should be painted in advance if you choose to do so. Install the logo accent plate and the trailer plug plate using the provided 1/4" hardware (A,I,E). Use a 7/16" wrench and a 5/32" hex key to secure.
18. Install the license plate lights using the supplied #10 hardware (B,H,D). Use your preferred method to connect the wiring to the harness.
19. Additional 1/4" hardware (A,I,E) is provided for mounting your license plate.
20. Install the bumper to the vehicle. The 1/2" plate in the bumper will slide through the square on the frame and the bumper studs will align to the holes in the frame.
21. Loosely install the 3/8" washers (F), lock washers (L), and nuts (J).
22. Install the 1/2" hardware (C,K,G,M). Install the bolt and washer from above, and a washer, lock washer, and nut from below.
23. Tighten all mount hardware.



Detail 13: Remove the wire harness



Detail 15: Remove the alignment tabs



Detail 22: Mounting hardware assembled

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