

Mercenary Offroad

19 North Aviator Street Unit C
Camarillo, CA 93010
(818)653-6637

Bumper Installation Instructions

2003-2009 Dodge Ram 2500-3500 (A-Bomb)

Tools Needed

- Standard and Metric Sockets and Wrenches. ½ or ¾ drive Ratchet.
- Tape Measure or Ruler
- 4.5" Grinder with Cutoff Wheels and Flap Discs **OR** Sawzall
- Automotive jack, forklift, etc to assist with lifting the bumper
- Welder (any process) (Optional, but recommended)

Front Bumper Removal

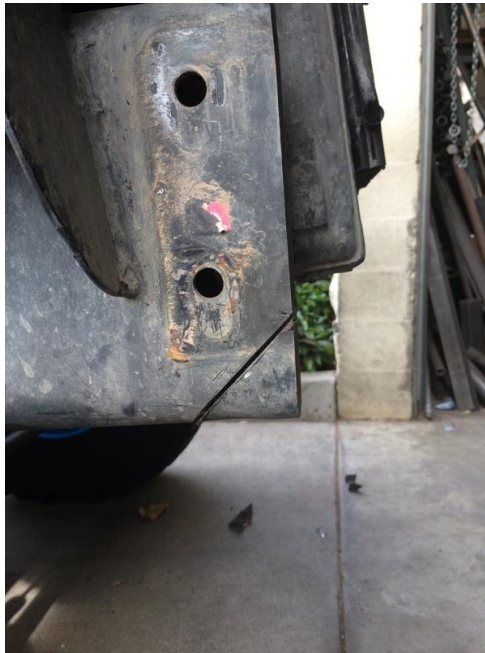
- Disconnect fog lights/other accessories tied into the existing front bumper
- Loosen all 4 nuts (2 per side) and remove bridge bolts while supporting the stock/existing bumper. The intercooler may be obstructing access. Remove the two mounting bolts at the top of the intercooler, and move upward to remove the bridge bolts. It is not necessary to remove the intercooler, just move it out of the way.
- The front bumper should now be able to be removed from the truck
- Disconnect the front sway bar from the frame and lower it, keeping in mind not to rip the dust boots on the sway bar ends.

Clearancing for Bumper

In order to fit a Mercenary Offroad bumper, you will need to cut the bottom of the front frame horns. On 03-05 trucks you will need to cut off an exposed tab from the drivers side body mount in addition to the frame. On 06+ trucks you will need to cut the frame and body mounts and radius the edges with a grinder. We have included pictures on how this is accomplished.

Frame Clearancing

Mark the frame two inches from the bottom and two inches from the front. Connect these marks, creating a 45° line to follow. Cut with either a 4 ½ grinder with cutoff wheel or a sawzall.





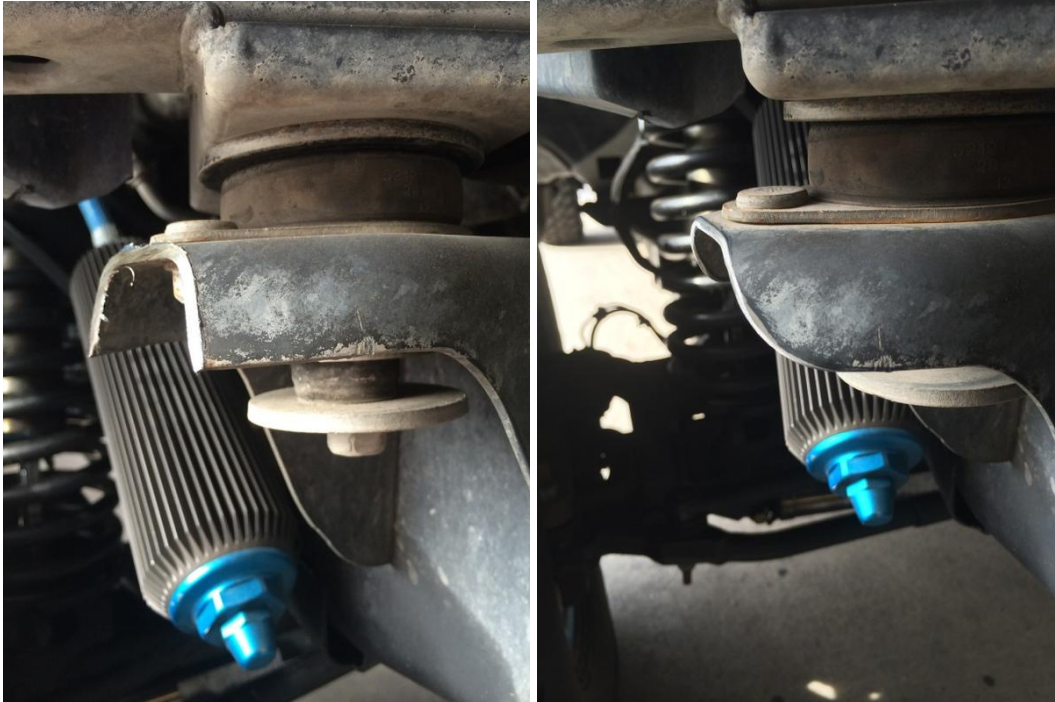
After cutting the frame, dress the exposed edges with a flap disc to smoothen the edges and prevent cuts. After dressing the edges, if you have access to a welder, weld the exposed tab to the frame horn prior to installing the bumper. This is an optional but recommended process.



Body Mount Clearancing

In addition to the frame clearancing, you will need to cut the core support mount corners. This will be accomplished in the same manner as the frame, with either a grinder or a sawzall. On 03-05 trucks the only clearancing will be an extended tab coming off of the drivers side core support mount. On 06+ trucks you will need to clearance both sides core support mounts $\frac{1}{8}$ " to $\frac{3}{16}$ " from the core support stud plate (see pictures below).





Following the same process as the frame, make sure to dress the edges. With the body mounts we recommend radiusing the exposed edge for a better look.

Bumper Preparation

Prior to installing the bumper, fit it to the truck without winch/accessories. We include shim plates with the bumper so that it fits centered on the truck. Measure the fitment from the headlight to the edge of the bumper on both sides, add in $\frac{1}{8}$ " shim plates as necessary on either side. Make sure the gap between headlight and bumper is between $\frac{5}{8}$ " and $\frac{3}{4}$ " top to bottom. Take note of the number of plates per side. If you have a welder, you can tack the plates together and to the bumper as well, helping make final install easier. After this, you can take the bumper to powdercoat/paint. Once its back from powdercoat/paint you will need to install all accessories onto/into the bumper. This includes the winch, winch plate, any lighting, and all associated wires. We mount the winch controller box on the passenger side and run the battery cables to the passenger side battery **AFTER** extending the controller box wires and the ground cable.



Bumper Installation

Installation is identical to removal of the stock rear bumper with the exception of shimming. We include shims to help align the new bumper to the truck. Typically it is 2 shims per side, but it varies from truck to truck. Using a tool to assist with lifting the bumper (floor jack, ATV jack, hydraulic table, forklift, etc.) greatly eases the load, but the bumper can also be installed with 3 or more people. Once the bumper is in place, pull the battery cables up through the passenger side of the core support. Tighten down the supplied ½" hardware (80 ft-lbs). Connect battery cables, any lighting, and test that they all work.