

# ROAD



# ARMOR

## 2010+ Dodge Ram 2500/3500 Front Bumper Install Instructions



### Warning!

Read the instructions completely before beginning the installation. Before tightening bolts, drilling or cutting where required, check to make sure that there are no obstructions such as brake, fuel or electrical lines that may be damaged. Also keep in mind this is an aftermarket product and MAY require some minor shimming and or trimming, reaming etc. to fit properly.

### IMPORTANT NOTICE

IF YOU ARE RECEIVING THIS ROAD ARMOR PRODUCT RAW/UNCOATED.

BE SURE TO INSPECT AND OR TEST FIT YOUR PRODUCT TO ENSURE PROPER FITMENT AND ADEQUATE SURFACE PREPARATION BEFORE HAVING YOUR PRODUCT COATED, PAINTED, BED LINED, ETC.

ROAD ARMOR WILL NOT BE RESPONSIBLE FOR THE COST OF COATING YOUR UNIT IF ANY PROBLEMS WITH FIT OR FINISH ARE NOT NOTED AND ADDRESSED PRIOR TO HAVING YOUR PRODUCT COATED.

THANK YOU

### SUGGESTED LIGHTS THAT FIT THIS UNIT:

PIAA 510 - [www.piaa.com](http://www.piaa.com) - Part Numbers (5161, 5164, 5192, 5190, 5196).

Warn 350F - [www.warn.com](http://www.warn.com) Part Number (82410).



### TOOLS NEEDED

- Yourself and a strong friend / bumper jack.  
( Don't worry, we're not calling you or your friend a "tool" )
- Socket set, Ratchet & Wrenches (metric & standard)  
( ... more than likely metric for your rig, cause everything's imported these days,  
and standard for your new bad ass Made in USA bumper.  
Road Armor thanks you for supporting the American Economy! )
- You may need a Sawzall if your truck is diesel.
- Common Sense a Tape Measure and a bit of Patience.  
( And also a cold drink to celebrate afterwards )



**STEP 1:** Make sure you have all necessary tools and hardware.

Hardware Kit Includes : ( all Grade 8 )

- (8) Single Bolt Plates
- (8) ½" Push On Retainers
- (4) ½-13" x 4.5 Bolts
- (16) ½" Flat Washers
- (12) ½" Lock Washers
- (12) ½"-13 Hex Nut
- (4) 3/8" Socket Head Cap Screw (For Winch)
- (4) 7/16" Socket Head Cap Screw (For Winch)



### STEP 2:

- Park on a level surface
- Remove license plate
- Disconnect battery
- Mask the front of the body to avoid scratches or chips in paint when uninstalling/installing the bumpers.



### STEP 3:

- Using an 18mm socket remove the two nuts on the bolt plate that hold the bumper mounts to frame. Do not remove the double bolt plate until it is time to remove bumper from truck. Also remove the four clips on the rubber liner just above the lower grill on the bumper. These can be easily pulled off by hand.



Picture 2

- Remove the bolt plates which the nuts were removed from during the last step. Once they are removed the bumper can be removed from truck.
- **NOTE: IF YOUR TRUCK IS A DIESEL LOOK AT PAGE 5 ON HOW TO UNINSTALL THE OEM BUMPER.**
- Remove two bolts and nuts that hold lower bracket mount to truck. The bracket mounts will not be used with your Road Armor Bumper but the hardware will be used. Do not discard bolts and nuts.

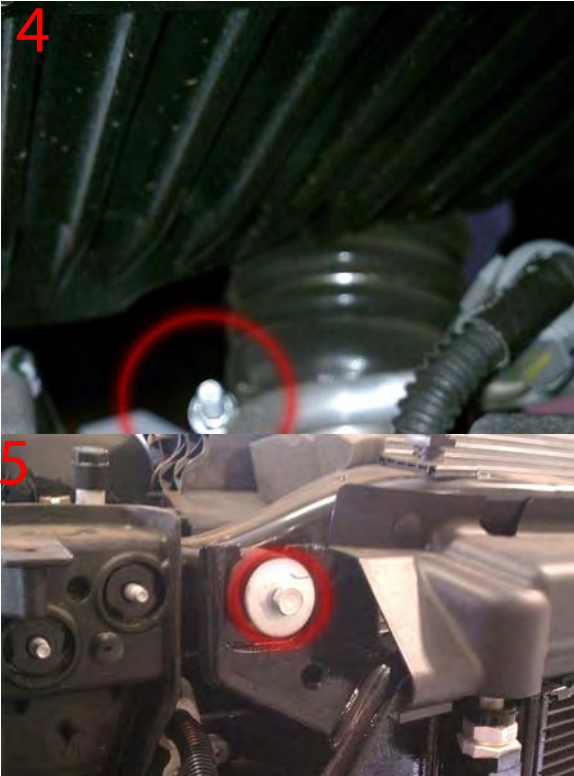
Picture 3

- Once the bumper and lower frame mount is removed the frame should look like the picture below. If the frame looks like the picture you are ready to install frame brackets



Picture 4





## STEP 4:

- Install the first Road Armor frame bracket using stock hardware. Refer to picture to determine how the bracket mounts onto the frame. Hand tighten all bolts to allow for adjustment once bumper is on truck.

Picture 5

- Once both Road Armor frame brackets are installed on truck it should look like the picture below.

Picture 6

- Insert one bolt plate into an outer slot of the bumper weld in brackets. Once a bolt plate is inserted into a slot push one ½" push on retainer to hold bolt plate onto bumper. Push retainer clip until it is flush with weld in bracket. A deep well socket can be used to assist pushing down the retainer clip.

Picture 7

Repeat this step for all outer slots on both sides of the bumper assembly.

When the bumper is ready to install it should look like the picture below.

Picture 8

**NOTE:** Winch and lights are not included with Road Armor Bumper. Refer to page () on how to mount the winch.

- It's time to install your road armor bumper. Using either a lift or a couple buddies, move the bumper into place. The bolt plates that are already placed into the bumper will line up with the slots in the frame bracket. If needed use a tape measure to align the bolt plates with proper spacing to make mounting the bumper easier.
- Lift the bumper and slide the bolt plates into the slots in the frame brackets. Once bolt plates slide into to frame bracket slots fasten with one ½" flat washer, ½" lock washer, and one ½" nut on each bolt in each bolt plate. Hand tighten all hardware.

Picture 9





Repeat this step for the other side of the bumper. Hand tighten all hardware to allow for adjustment at a later step.

- Insert the four other bolt plates into the inner slots of the brackets fasten with one ½" flat washer, ½" lock washer, and one ½" nut on each bolt in each bolt plate. Hand tighten all hardware.

Picture 10

- Make final adjustment to bumper and tighten all hardware. Once bumper is fully adjusted attach stainless steel road armor logo to bumper with supplied hardware

Picture 11

### STEP 5:

- Once bumper is fully adjusted the plastic liner in the wheel well needs to be cut back to fit inside road armor bumper. Draw with a crayon or marker where it needs to be cut. Use a utility knife to cut plastic liner.

**NOTE:** If you are unsure how much to cut away from liner cut a small portion and try to fit liner behind bumper. If it will not fit trim more off until it fits to your liking. When you are done the plastic should look like the picture 12.

Repeat for other side of the bumper.







### DIESEL TRUCK INSTRUCTIONS



- The reason it takes additional procedures is because the intercooler is in the way from getting the bolt plate out.
- Start by removing the top plastic fan shroud. (use a flat head screw driver, ice pick, or the correct tool to use would be a body panel tool to pull the plastic retainers out)

Picture 13

- Unbolt the four screws that hold the tranny cool down.

Picture 4

- Unscrew the hose clamps on both sides of the intercooler.

Picture 15

- Unbolt the intercooler

Picture 16

- Unbolt the radiator.

Picture 17

- Pull the plastic clips out of the bottom of the bumper

Picture 18

- Now clearance the radiator for the intercooler so you can pull the bolt plate out (if this procedure is fighting you, check to make sure you have all the bolts out and everything is out of it's retainers).

- Picture 20







- Install the winch to the bumper using the supplied Allen Bolts and Washers.  
**Note** - Install the Flairlead bolts before you mount the winch.

