

# ROAD



# ARMOR

## 2009 - 2011 Ford F150 Front Bumper



### 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

- Socket set, Ratchet & Wrenches (metric & standard)-
- Road Armor thanks you for supporting the American Economy!-
- Common Sense Tape Measure and a bit of Patience-
- Hand Grinder with Cutoff Wheel-
- Power Drill and 1/2" bit-



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

Hardware Kit Includes : ( all Grade 8 )

- ( 4 ) 1/2" x 1 1/2" Single Bolt Plates
- ( 4 ) 1/2" x 2" Single Bolt Plates
- ( 2 ) Double Bolt Plates
- ( 16 ) 1/2" Flat Washers
- ( 14 ) 1/2" Lock Washers
- ( 14 ) 1/2" Hex Nuts
- ( 8 ) 1/2" Retaining Washers
- ( 2 ) 3/4"-10 x 6.5" Bolts
- ( 4 ) 3/4" Flat Washers
- ( 2 ) 3/4" Lock Washers
- ( 2 ) 3/4" Hex Nuts
- ( 1 ) 1/4"-20 x 3/4" Bolt
- ( 2 ) 1/4" Flat Washers
- ( 1 ) 1/4" Lock Washer
- ( 1 ) 1/4" Hex Nut
- ( 4 ) Plastic Inserts
- ( 8 ) Allen Head Bolt - Winch Hardware
- ( 1 ) Package of Road Armor Logo Hardware



## Step 2 : Uninstall OEM Bumper

- Park on level surface and disconnect positive battery terminal.
- Disconnect Fog lights.
- Unbolt hood latch and remove the two outside bolts.

Picture 2

Note: If you have a EcoBoost, unbolt and remove intercooler cross member.

Pictures 3

- Unbolt the 2 bolts per side that hold the bumper to the frame using a 21mm or 13/16" Socket and ratchet. Remove bumper by tilting back toward the truck and pulling out.

Picture 4

- From the inside of the wheel well, unbolt the 2 bolts per side that hold the fender flare to the top bumper piece using a 10mm socket. In addition remove the plastic fasteners around the inside lip of the fender flare. You can use a small wrench or needle nose pliers if you do not have the proper tool to remove these. The one under the door is a tough one.

Picture 5



- Remove fender flare by lifting up and pulling out. Picture 6
- After the flares have been pulled off you will need to remove the clips from the fender. To do this, use a pick and push in one of the tabs, pull out slightly, and repeat on the other side. Install back clips onto fender flare after trimming
- Note: With the next steps of unbolting the top bumper, start with the passenger side and repeat steps to the driver side. This is so you can see where the bolts are located, since the driver side has extra parts in the way.
- From the inside of the wheel well remove the 4 bolts that hold the top bumper piece in place using a 10mm socket.

Picture 7 - 9

- Remove the bolts underneath the head lights using a 10mm wrench.

Picture 10 - 11

- Repeat last two steps to the driver side.
- Remove top bumper piece.

Note: There are plastic retaining clips below the head lights that help hold the top bumper on. You will need to pull them down to remove the bumper.

Pictures 12 - 13

- The fender flares will need to be cut next. Hold fender flares in place, position by using the inserts in the inner fender, and mark them where the end of the body line is as illustrated by a green line in picture 7. This line will be on the inside of the flare. Uninstall the flares and mask off the area you will be cutting to prevent accidental scratches. We recommend using a cut off wheel to cut the flares. If painted do not pull off tape until plastic has cooled down. Use touch up paint to help avoid the paint from chipping. (We are not responsible if paint starts to chip.)



## Step 3 : Install Road Armor Bumper

- Install the top frame brackets using the 3/4" hardware.

Note : Install the 3/4" bolt so the threads are facing in and that the lock washer is up against the hex head of the bolt (refer to picture 15), not on the nut. Reason is because there is not enough room in the EcoBoost. In addition, check the bolt slots to make sure you have the brackets on the correct side. Picture 14





- Install the lower frame brackets using the double bolt tab and 1/2" hardware.

Note : Install the bolt tab from the inside of the frame rail so the threads are facing down.

Picture 15

- Tighten all the hardware.
- Once brackets are installed you will need to drill a half inch hole through the brackets and the frame. There is a pilot hole in the brackets for a guide. Once drilled use supplied .5" hardware.

Picture 16

- Insert the 1 1/2" bolt tabs into the top slots on bumper and 2" bolt tabs for the bottom slots. Use the 1/2" retaining washers to hold the bolts in place. You can use a deep socket to help push the retaining washers onto the bolt.

Picture 17

- Measure across from bracket to bracket to each bolt slot and match the distance measured to the bolts on the bumper. This will help to align the bolts for and easier install.

Picture 18 - 19

- If you have a winch install it now with supplied allen head bolts. Make sure to install the fairlead bolts before you mount the winch.
- Install the bumper using the 1/2" hardware and only tighten one nut per side for now.
- Square up the bumper to the body by measuring from the top bumper surface to a point on the body on both sides as well as side to side.

Note : Try to maintain a gap no less then 5/16" from the body to the bumper. Reason is because the body will hit the bumper from body flex and vibrations while driving down the road.

Picture 20

- Once bumper is squared, tighten all hardware.
- Install the hood latch onto the bracket that's right above the passengerside frame rail using the 1/4" hardware.
- Install Road Armor Logo using the stainless steel hardware.
- If your truck is the EcoBoost, install the inter-cooler cross member.

Note : You might need to lube up the rubber mounts in order for the mount to go on smoothly

- Install the trimmed fender flares.



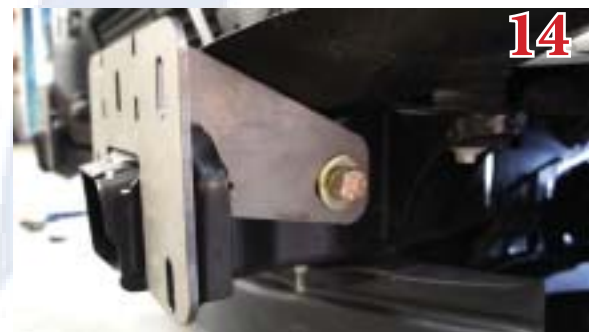
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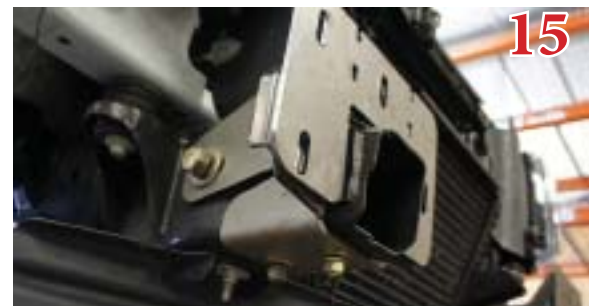
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13



14



15





- Note :
- In the fender well there is a cross member that can interfere with the bumper when getting adjusted. If the bumper hits here it will need to be cut off.

