



Body Armor 4x4 by Tolar Mfg.  
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Ph: 951-808-0750  
Customer service hours:  
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[www.bodyarmor4x4.com](http://www.bodyarmor4x4.com)

#### Installation instructions for Ford Raptor front bumper PN DSF-19531 & DSF-19532

\*\* Inspect bumper to installation. Contact Body Armor directly if missing any items 951-808-0750

##### Hardware List:

12M x 35M-1.75 hex head bolts Qty: 4
12M x 60M-1.75 hex head bolts Qty: 2
12M flat washers Qty: 12
12M lock washers Qty: 6
12M Hex nut Qty: 6
5/16" x 1" hex bolt Qty: 18
5/16" flat washers Qty: 20
5/16" lock washers Qty: 2
5/16" hex nuts Qty: 2

##### Kit Includes:

Front bumper
Belly pan (preinstalled)
Upper light brackets Qty: 2

\*\*DSF-3101 winch plate sold separately.

#### Removing Factory front bumper:

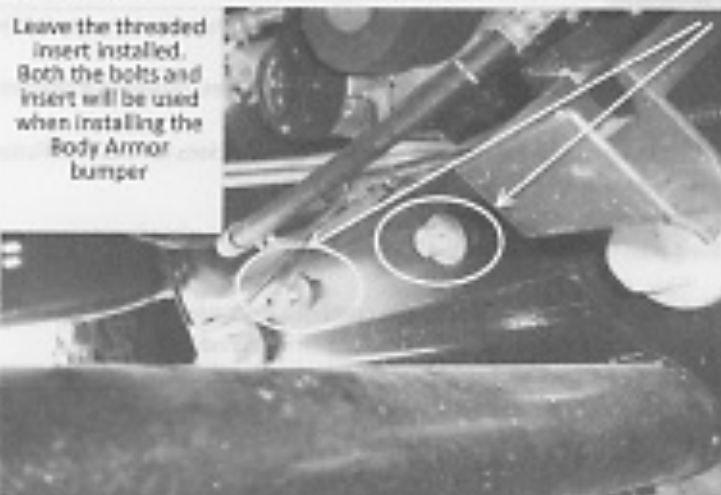
- Step 1. Locate factory bolts and remove all hardware. Remove the plastic skirt on the bumper. Open the hood and locate the hood release mount on the center bracket. You will need to remove the hood latch and the other two bolts that attach the latch bracket to the bumper. Once the bumper is removed dismount the center hood latch bracket and reinstall on the fascia. Then reattach the hood latch.

#### Prep Body Armor bumper for installation:

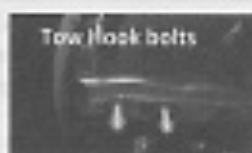
- \*\* Before removing the bumper from the box install the 5/16" hardware on the belly pan. Use bolt and flat washer
- \*\* If installing a winch you will need to place the haws fairlead behind the front fascia. Secure with tape or wire ties
- \*\* We recommend using a haws fairlead in stead of a roller fairlead. Some roller style leads may not fit.
- \*\* Pre-install 6" dual LED lights behind the slotted area in the fascia of the bumper. Use light tabs provided by the lighting company
- \*\* Remove the factory tow hooks if installing winch plate, leave in place if not.
- \*\* If installing a winch: Mount winch to winch plate, the pre-install the winch plate to the vehicle.

#### Installing front bumper:

- Step 1. Remove the two inner bolts located on the front of the cross member. The belly pan brace attaches using these bolts



Leave the threaded insert installed. Both the bolts and insert will be used when installing the Body Armor bumper



Tow hook bolts

Loosen or remove factory 2 front skid plate bolts, re-attach after bumper is installed



Belly-pan with factory skid plate

- Step 2. Loosen or remove the 2 front factory skid plate bolts, re-attach after bumper is installed.

- Step 3** Locate the 35M- 12M bolts, Qty of 4, place flat washer on the head side of the bolts. Have two flat washers lock washers and nuts set on the ground near each frame horn. With a helper lift the bumper to the vehicle.
- Step 4** Line up the bumper mounting plates so that the holes on the frame horns line up with the holes in the bracket. Loosely attach the bumper to the frame horns. Note: There are four holes in our brackets per side and only two holes in the factory frame horns per side. We provide the extra mounting holes for those that choose to beef up the installation. Using these extra mounting points will require drilling into the frame horns and we do not provide the extra hardware. We do not require the additional mounting points this is at owner discretion.
- Step 5** Steps 5 and 6 are for Raptor and S.O.L F-150 only:  
Attach the belly-pan arms to the cross member by using the factory bolts that were removed previously.



- Step 6** If installing winch plate, use the 1/2"x2.25" bolts to tie the bumper to the winch plate well. Remove temporary tape
- Step 7** Install front license plate with the holes provided (non winch installation)
- Step 8** Adjust and level the bumper, then tighten all hardware. Re-check all hardware after 500 miles, retighten if needed

**Lighting options:**

- \*\*\* Our bumper is designed to hold a 30" light bar under the center hoop. We provide light brackets for this installation
- \*\*\* 6" dual LED's can be installed behind the grill pattern areas of the bumper
- \*\*\* Two cube LED lights, or 3" round lights can be mounted in each bumper wing
- \*\*\* Up to four 3" round halogen, LED or HID lamps can be mounted on the light tabs on the top hoop.

**Paint:** We have selected a high quality DuPont Mini Tex paint and have added two coats of a zinc based powder primer. By doing this we believe that we have provided the most durable paint combination in the industry. Like your vehicle to keep the beauty of the paint it will require maintenance on the users part. So be sure to touch up scratches when ever possible. Deep scratches can lead to rust and possibly peeling of the powder coat. Use a quality flat black spray paint. Apply the paint to a piece of foam or paper and dab it on the scratched area. Rust is not considered a warranty defect, if rust occurs from a scratch it needs to be touched up with paint. We recommend a high grade flat black paint.

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