

2017+ Ford F150 Raptor Rear Differential Skid Plate SKU: BNSD-F35T-17DF

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CUSTOMER SERVICE HOURS: MON-FRI 8:30AM-5:00PM EST

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SUPPLIED PARTS

- (1) REAR DIFFERENTIAL SKID PLATE
- (2) AXLE TUBE CLAMPS
- (1) DIFFERENTIAL CLAMP
- (4) M8 X 40MM BOLTS
- (2) M8 X 25MM BOLTS
- (2) FLAT WASHERS
- (2) LOCK WASHERS
- (2) RUBBER WASHERS

REQUIRED TOOLS

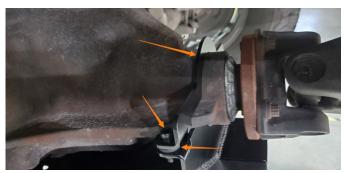
6MM ALLEN SOCKET SOCKET DRIVER

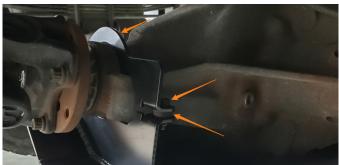
INSTALLATION INSTRUCTIONS

O1. Using a 6mm allen socket or wrench, attach the Borne Off-Road skid plate to the axle tube with the supplied (2) axle tube clamps and (4) 40mm bolts. Leave bolts loose enough that the skid plate can be rotated to adjust it's position if needed. (See image on right)



02. Using a 6mm allen socket or wrench, install the differential clamp with the supplied (2) 25mm bolts, flat washers, & lock washers. The supplied (2) rubber washers should be placed between the differential clamp and the mount on the skid plate.





03. Tighten the bolts from step 1. Do not overtighten or damage to the axle tube may occur.

Congratulations! You have completed your installation.

*For **Disposal Instructions**, and **Warranty Information** continue to the following page.



2017+ FORD F150 RAPTOR REAR DIFFERENTIAL SKID PLATE DISPOSAL INSTRUCTIONS AND WARRANTY INFORMATION

DISPOSAL INSTRUCTIONS

- Do not dispose of any product as unsorted municipal waste.
 Use separate collection facilities. Contact your local authority for information regarding the collection systems available.
- > Never improperly dispose of any coolant, oil, or other chemicals.

WARRANTY INFORMATION



- All claims must be accompanied with a picture of the Mishimoto product showing the issue for which the claim is being submitted.
- Mishimoto asks that the customer inspect their purchased item for any damage immediately upon arrival.
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- If you have a vehicle equipped with an automatic transmission, please make sure to specify this within the text box on the claim form. Mishimoto is not responsible for incorrect replacement shipments if transmission type is not indicated.



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2017+ Ford F150 Raptor Engine Skid Plate SKU: BNSD-F35T-17E

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SUPPLIED PARTS

(1) ENGINE SKID PLATE

REQUIRED TOOLS

10MM SOCKET

13MM SOCKET

15MM SOCKET

SOCKET DRIVER

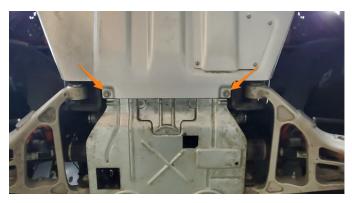
TORQUE WRENCH

INSTALLATION INSTRUCTIONS

01. Using a 13mm socket, loosen but do not remove the (4) front bolts on the front skid plate (if equipped).



02. Using a 15mm socket, remove the (2) rear bolts and the spacer bar (if equipped) between the front skid plate (if equipped) and engine skid plate. Let the front skid plate hang on the (4) bolts that were loosened in step 1.





03. Using a 10mm socket, remove the (2) bolts that connect the engine skid plate to the transmission skid plate.



04. Using a 13mm socket, remove the last (2) bolts and the engine skid plate from the vehicle.



Continued on next page



05. Using a 15mm socket, install the (2) bolts removed in step 2 through the front skid plate (if equipped), spacer bar (if equipped), and Borne Off-Road engine skid plate and tighten to 22 lb-ft (30 N-m). Ensure the face of the spacer bar (if equipped) marked **"BOTTOM"** is facing down.



06. Using a 13mm socket, install the (2) bolts removed in step 4 and tighten to 22 lb-ft (30 N-m).



07. Using a 10mm socket, install the (2) bolts removed in step 3 and tighten to 106 lb-in (12 N-m).



08. Using a 13mm socket, tighten the (4) bolts on the front skid plate (if equipped) that were loosened in step one to 22 lb-ft (30 N-m).



Congratulations! You have completed your installation.

Before



After



Note: The engine, transmission, and transfer case skid plates are shown above. These installation instructions are for the engine skid plate only.



2017+ FORD F150 RAPTOR ENGINE SKID PLATE DISPOSAL INSTRUCTIONS & WARRANTY INFORMATION

DISPOSAL INSTRUCTIONS

- Do not dispose of any product as unsorted municipal waste. Use separate collection facilities. Contact your local authority for information regarding the collection systems available.
- > Never improperly dispose of any coolant, oil, or other chemicals.

WARRANTY INFORMATION



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2017+ Ford F150 Raptor Fuel Tank Skid Plate SKU: BNSD-F35T-17FT

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SUPPLIED PARTS

(1) FUEL TANK SKID PLATE

REQUIRED TOOLS

13MM SOCKET SOCKET DRIVER TORQUE WRENCH

INSTALLATION INSTRUCTIONS

- **01.** Using a 13mm socket, remove the fuel tank skid plate from the vehicle by removing the (4) nuts. (View image on right).
- **02.** Using a 13mm socket, install the Bourne Off-Road fuel tank skid plate by reinstalling the (4) nuts removed in step 1 and tighten to 22 lb-ft (30 N-m).

Congratulations! You have completed your installation.

Step 1:



Before:



After:



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DISPOSAL INSTRUCTIONS

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WARRANTY INFORMATION



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2017+ Ford F150 Raptor Transfer Case Skid Plate SKU: BNSD-F35T-17TC

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SUPPLIED PARTS

- (1) TRANSFER CASE SKID PLATE
- (1) UPPER BRACKET
- (1) LOWER BRACKET
- (3) M8 B0LTS
- (3) FLAT WASHERS
- (3) LOCK WASHERS

REQUIRED TOOLS

13MM WRENCH 13MM SOCKET SOCKET DRIVER

TORQUE WRENCH

INSTALLATION INSTRUCTIONS

01. Using a 13mm socket, remove the transfer case skid plate from the vehicle by removing the (4) bolts. (See first image on right)



02. Using a 13mm socket, assemble the upper and lower brackets with (2) of the supplied bolts, flat washers, & lock washers around the frame as shown below. Leave the bolts loose enough that the location of the bracket on the frame can be adjusted.



03. Using a 13mm socket, install the Borne Off-Road transfer case skid plate with the (4) bolts that were removed in step 1. Do not fully tighten the bolts yet.



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04. Align the bracket installed in step 2 with the slot in the skid plate. Using a 13mm socket, attach the skid plate to the bracket with the remaining (1) supplied bolt, flat washer, & lock washer, and tighten to 22 lb-ft (30 N-m).

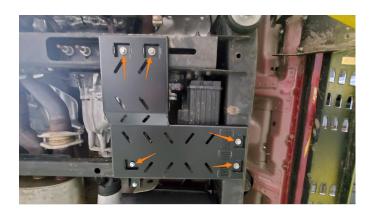


05. Using a 13mm socket or wrench, fully tighten the (2) bolts that assemble the bracket around the frame from step 2. Tighten to 22 lb-ft (30 N-m).

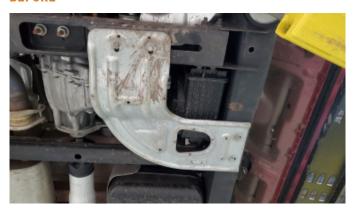


06. Using a 13mm socket, fully tighten all (5) mounting bolts to 22 lb-ft (30 N-m). (See image first image on right)

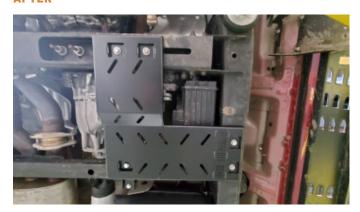
Congratulations! You have completed your installation.



BEFORE



AFTER



2017+ FORD F150 RAPTOR TRANSFER CASE SKID PLATE DISPOSAL INSTRUCTIONS & WARRANTY INFORMATION

DISPOSAL INSTRUCTIONS

- Do not dispose of any product as unsorted municipal waste. Use separate collection facilities. Contact your local authority for information regarding the collection systems available.
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WARRANTY INFORMATION



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2017+ Ford F150 Raptor Transmission Skid Plate SKU: BNSD-F35T-17TR

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SUPPLIED PARTS

- (1) TRANSMISSION SKID PLATE
- (1) ACCESS COVER
- (5) M8 BOLTS
- (5) M8 CLIP NUTS
- *THE PARTS BELOW ARE PACKAGED IN A SEPARATE BAG AND ARE FOR USE ONLY IF NO OEM SKID PLATE IS EQUIPPED:
- (4) M10 CLIP NUTS
- (4) M10 BOLTS
- (4) FLAT WASHERS
- (4) LOCK WASHERS

REQUIRED TOOLS

8MM SOCKET (ONLY IF OEM SPLASH GUARD IS EQUIPPED)

10MM SOCKET

12MM SOCKET

13MM SOCKET

SOCKET DRIVER

TORQUE WRENCH





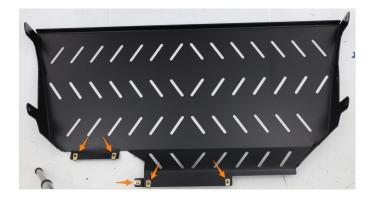
BEFORE

AFTER

INSTALLATION INSTRUCTIONS

Note: The engine, transmission, and transfer case skid plates are shown above. These installation instructions are for the transmission skid plate only.

01. Install the (5) supplied clip nuts to the Borne Off-Road transmission skid plate as shown below:



02. Using a 10mm socket (8mm socket if 0EM splash guard is equipped), remove the (2) bolts that connect the engine skid plate to the transmission skid plate (or splash guard). These bolts will not be reused. (See next page)

CONTINUED ON FOLLOWING PAGE







03. Using a 13mm socket, remove the transmission skid plate from the vehicle by removing the (4) bolts that attach it to the frame. There are (2) on the driver side and (2) on the passenger side.





*If an OEM splash guard is equipped (instead of a skid plate) remove the (2) bolts that attach the (2) brackets to the frame as well as the clip nuts. There is (1) on the driver side and (1) on the passenger side. These bolts, clip nuts, and brackets will not be reused. (4) supplied clip nuts will need to be installed at these mounting locations.



04. Using a 13mm socket, install the Borne Off-Road transmission skid plate by reinstalling the (4) bolts removed in step 3 (the (4) supplied bolts, flat washers, & lock washers if an OEM splash guard was equipped) and tighten to 22 lb-ft (30 N-m).





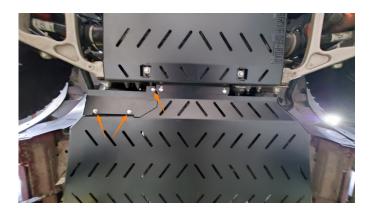
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05. Using a 12mm socket, attach the engine skid plate to the transmission skid plate with (2) of the supplied bolts and tighten to 120 lb-in (13.6 N-m).





06. Using a 12mm socket, attach the access cover to the skid plate with the remaining (3) supplied bolts and tighten to 120 lb-in (13.6 N-m). This cover can be removed to gain access to the oil drain plug without the need to remove the entire skid plate.

Congratulations! You have completed your installation.

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DISPOSAL INSTRUCTIONS

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