



FORD PERFORMANCE

M-FR3A-MGTA Handling Pack Installation Guide

NO PART OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT PRIOR AGREEMENT AND WRITTEN PERMISSION OF FORD PERFORMANCE RACING PARTS.

Please visit www.fordperformanceracingparts.com for the most current instruction information

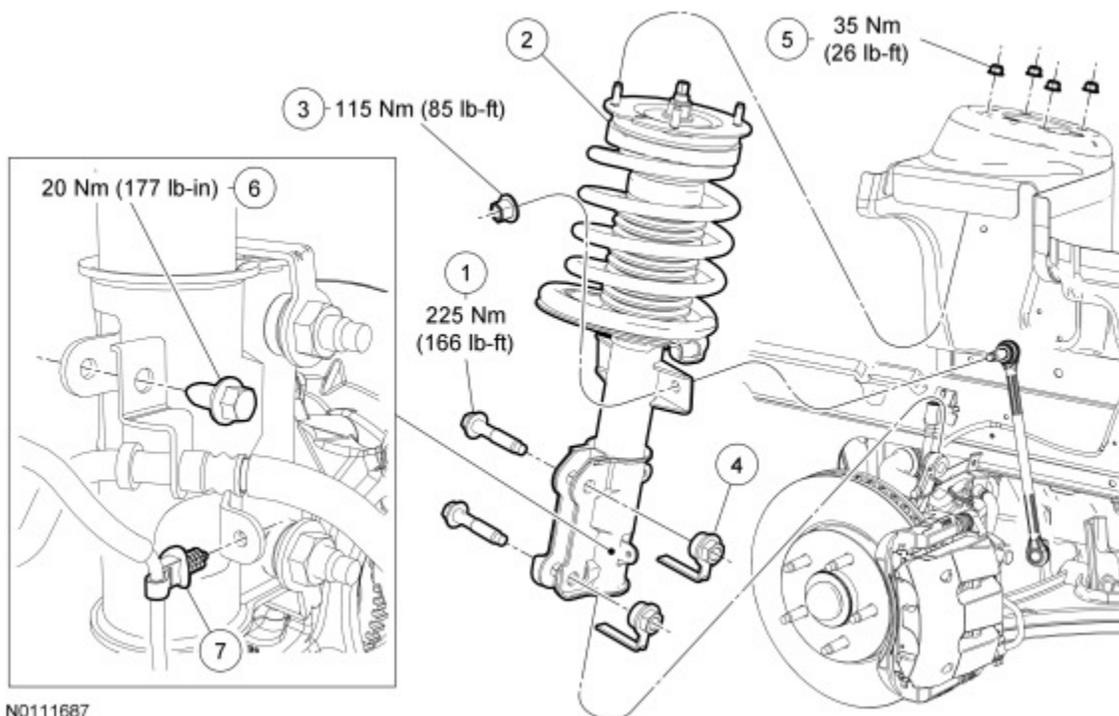
!!! PLEASE READ ALL OF THE FOLLOWING INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION. AT ANY TIME YOU DO NOT UNDERSTAND THE INSTRUCTIONS, PLEASE CALL THE FORD RACING TECHLINE AT 1-800-367-3788 !!!

NOTICE: Suspension fasteners are critical parts that affect the performance of vital components and systems. Failure of these fasteners may result in major service expense. Use the same or equivalent parts if replacement is necessary. Do not use a replacement part of lesser quality or substitute design. Tighten fasteners as specified.

NOTICE: Do **NOT** discard any fasteners unless specifically instructed to do so **IN WRITING**. Use the supplied Red Loc-Tite to ensure fastener locking during installation.

1. Remove the front strut assembly

1.1 Jack up the vehicle and remove the wheels.



1.2 Remove the front stabilizer bar link upper nut (pictured 3 above) and separate the front stabilizer bar link from the strut and spring assembly. Dispose of the nuts.

Factory Ford shop manuals are available from Helm Publications, 1-800-782-4356 Or www.helminc.com

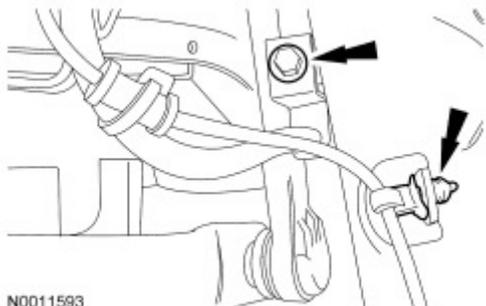


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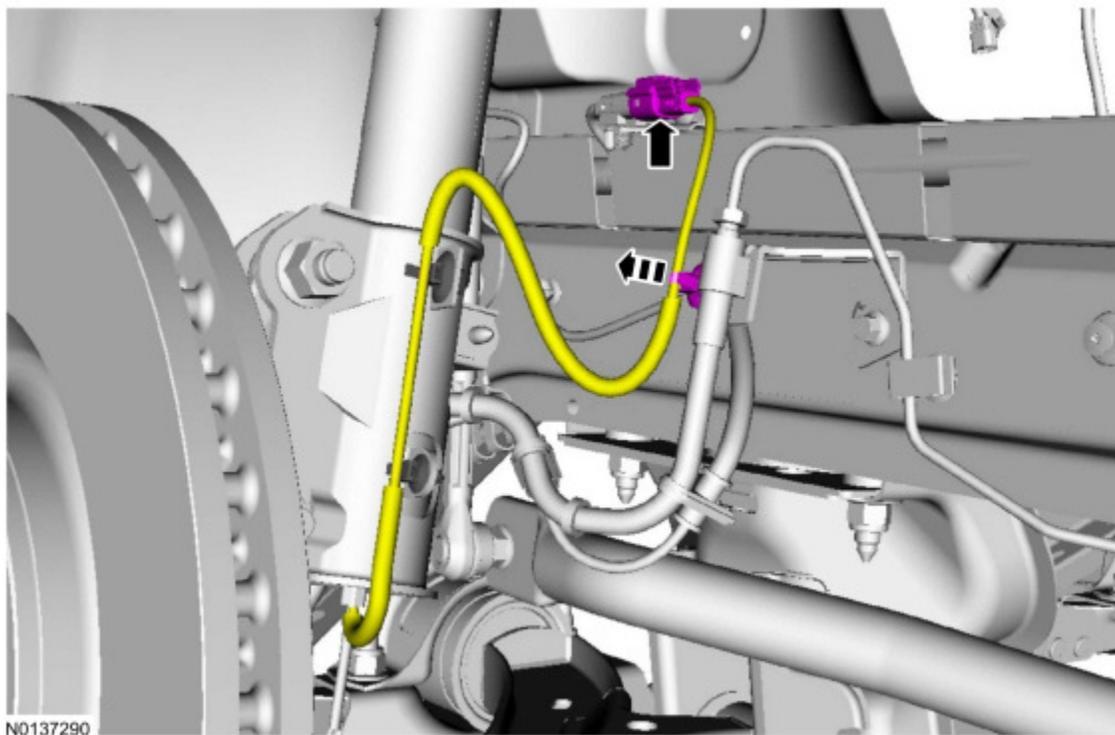
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1.3 Remove the brake hose bracket bolt and disconnect the wheel speed sensor wire from the bracket. Set the bolt aside.



1.4 If equipped, disconnect the front strut electrical connector.



1.5 Using a suitable jackstand, support the lower control arm.

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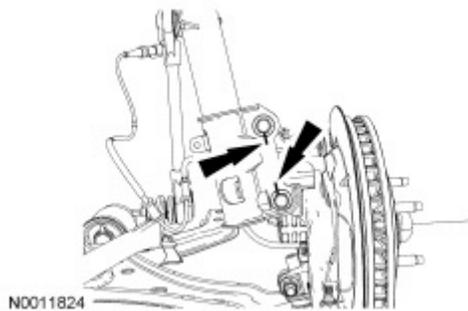


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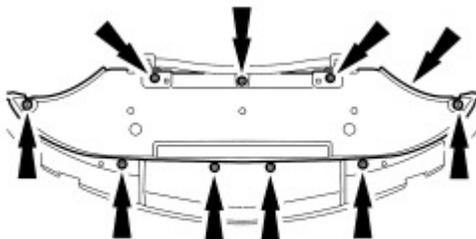
- 1.6 Remove the strut-to-spindle bolts and flagnuts, and discard the nuts.
NOTE: Original strut-to-wheel spindle bolts are splined and may need to be driven out.



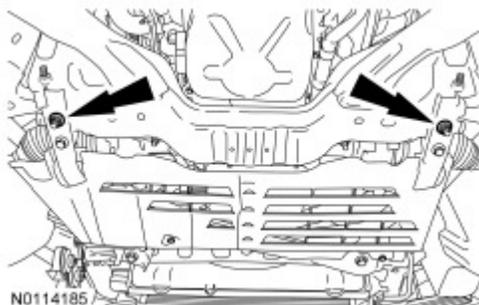
- 1.7 NOTICE: Damage to the lower control arm bushings may occur if the lower control arm is not supported.
Carefully lower the lower control arm and remove the strut and spring assembly.

2. Remove the front stabilizer bar assembly

- 2.1 If equipped, remove the 9 screws and the lower air deflector. Set the screws aside.



- 2.2 Loosen the 2 crossmember brace nuts. Set the nuts aside.



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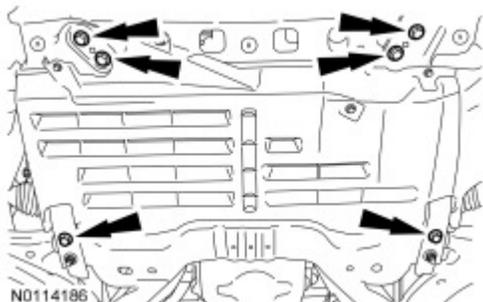


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2.3 Remove the 6 crossmember brace bolts and remove the crossmember brace. Set the bolts aside.



2.4 Remove and discard both stabilizer bar link lower nuts.

2.5 Disconnect both links from the stabilizer bar.

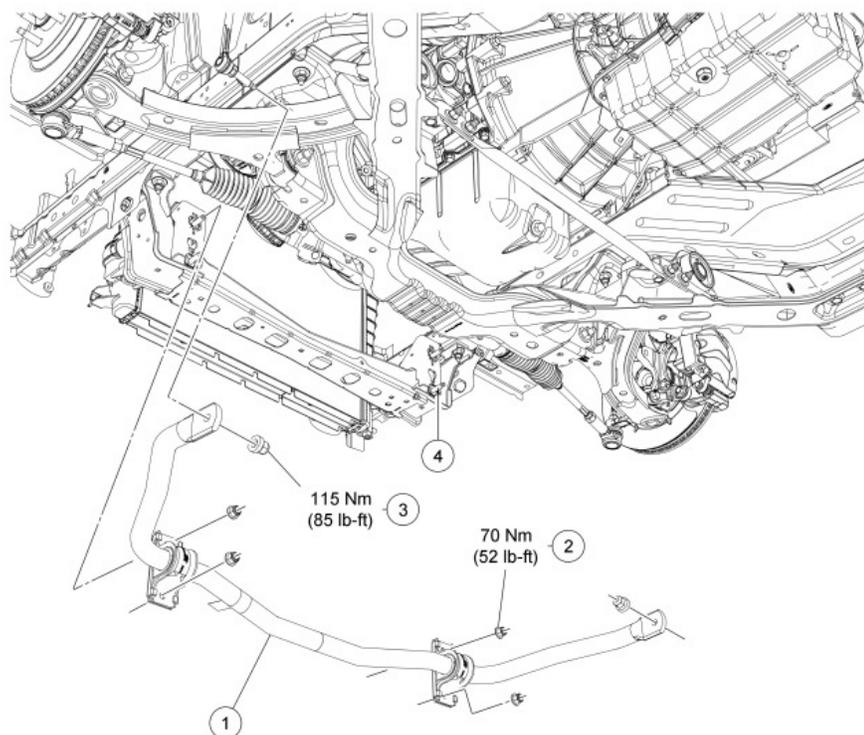
2.6 Remove the 4 stabilizer bar bracket nuts and carefully remove the stabilizer bar.

3. Install the new Ford Performance front sway bar

3.1 Assemble the new bushings on the Ford Performance front swaybar, utilizing the provided lubrication grease between the bushing and the bar.

3.2 Install the new front swaybar brackets over the bushings, and position the new Ford Performance front sway bar over the factory studs.

NOTICE: When installing the stabilizer bar, make sure the stabilizer bar is centered symmetrically between the 2 stabilizer bar brackets. The distance between the stabilizer bar brackets and links should be the same on both sides, as shown in the illustration.



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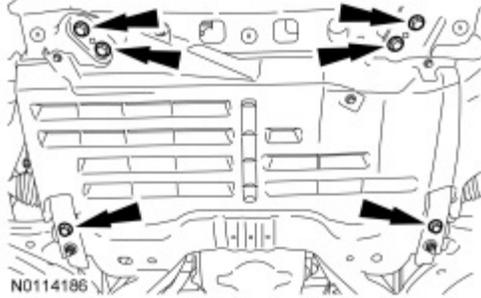
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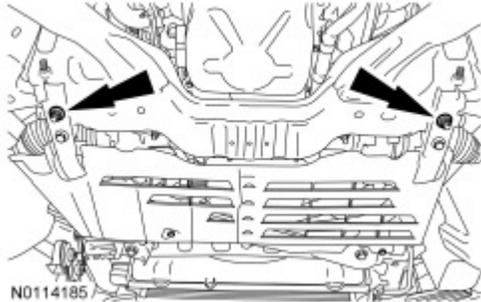
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3.3 Install the 4 stabilizer bar bracket nuts, and tighten to 70 Nm (52 lb-ft).

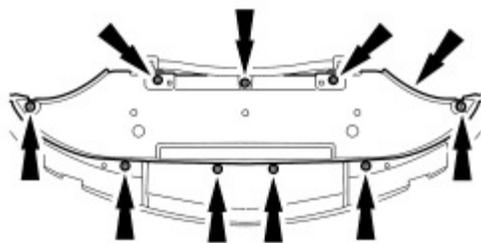
3.4 Reinstall the chassis crossmember brace with the 6 bolts and tighten to 48 Nm (35 lb-ft).



3.5 Reinstall the chassis crossmember brace nuts and tighten to 48 Nm (35 lb-ft).



3.5 Reinstall the 9 screws for the lower air deflector.



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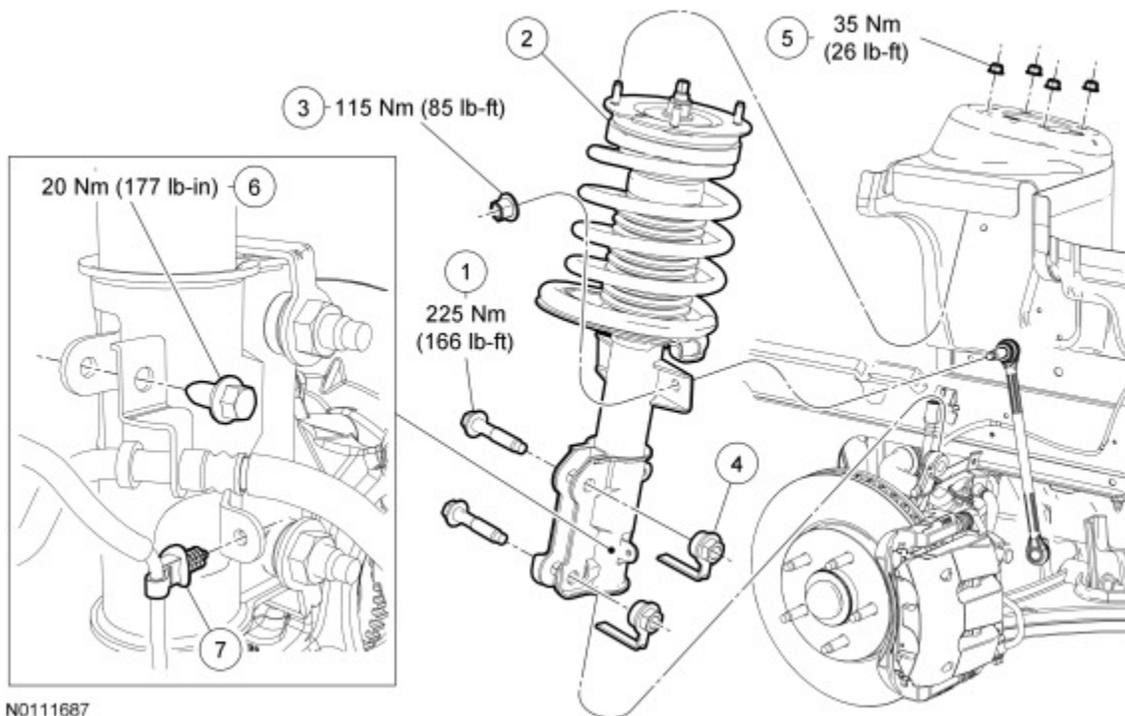
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4. Install the new Ford Performance front strut assemblies

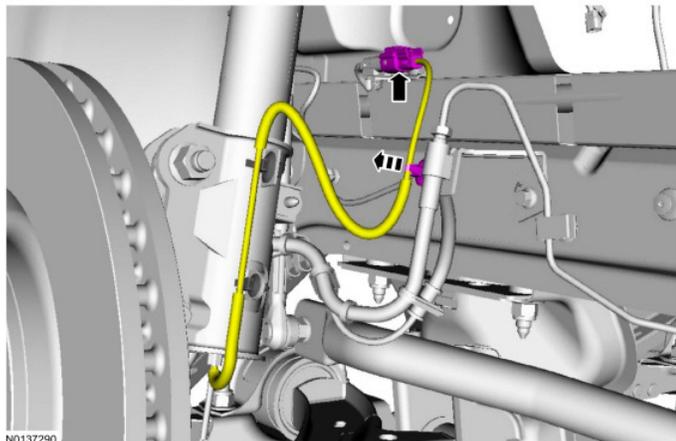
4.1 Position the new Ford Performance strut assembly into the strut tower, and use the new strut top nuts and tighten to 26 lb ft (35 Nm).



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4.2 Install the strut assembly to the knuckle, using a provided eccentric bolt for the lower and a factory bolt for the upper. Use the new supplied nuts and tighten to 166 lb-ft (225 Nm).

4.3 If equipped, reconnect the front strut electrical connector.



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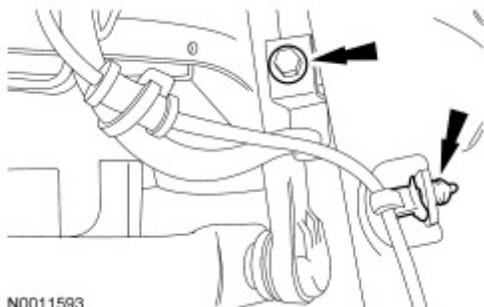


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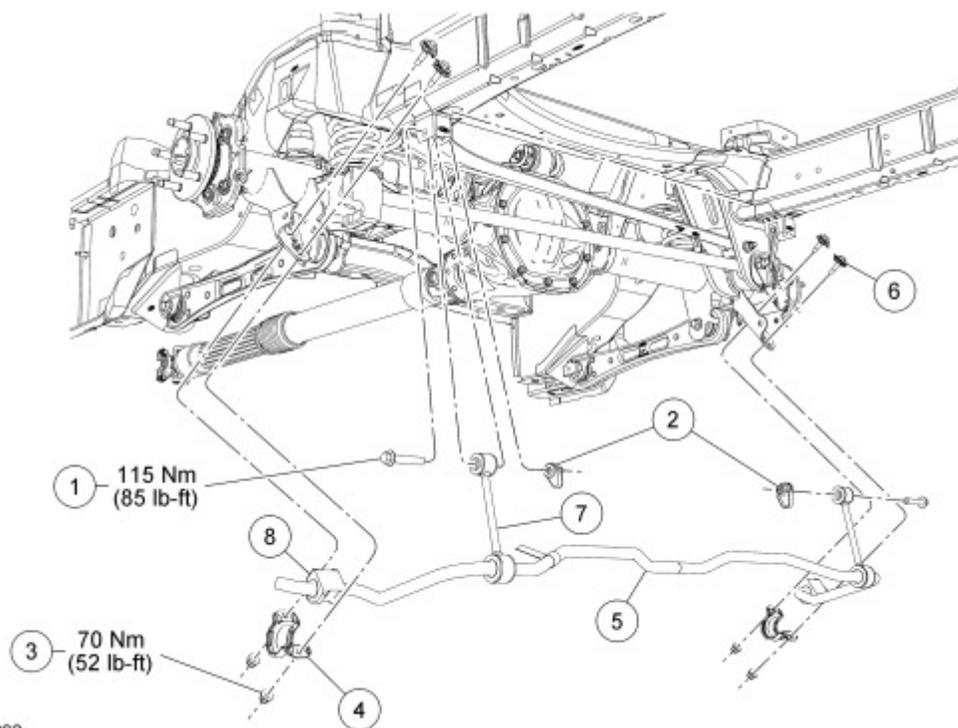
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4.4 Reconnect the wheel speed sensor wire from the bracket. Reinstall the brake hose bracket bolt and tighten to 20 Nm (177 lb-in).



4.5 Reinstall the stabilizer bar links with the provided new nuts on both the strut and the stabilizer bar. Tighten to 115 Nm (85 lb-ft).

5. Remove the rear stabilizer bar



5.1 Remove and discard the stabilizer bar link bolts and clip nuts (labeled 1 and 2 above).

5.2 Remove the stabilizer bracket nuts (labeled 3 above)

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6. Remove the rear shocks, springs, and jounce bumpers

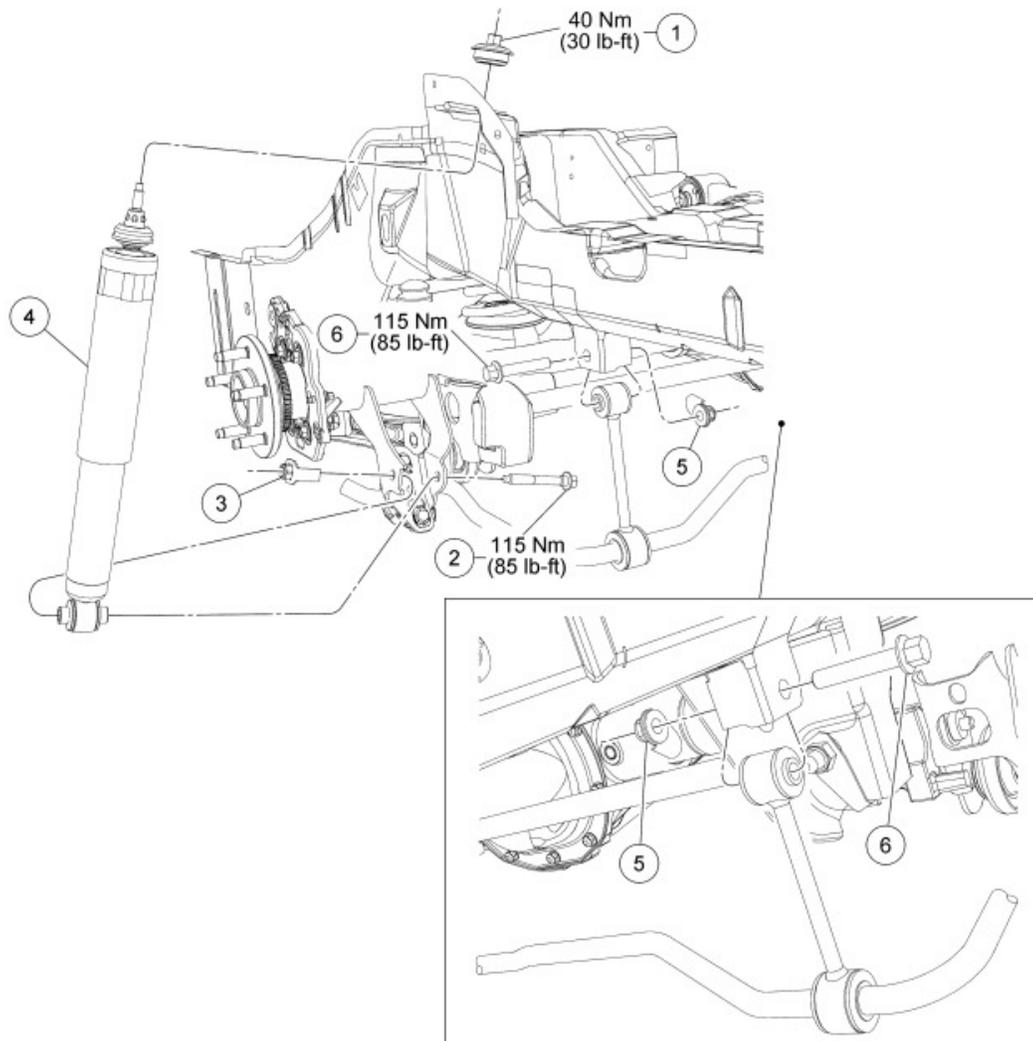
6.1 Open the luggage compartment and position the carpet aside.

6.2 NOTICE: Do not support the rear axle at the differential housing or damage to the housing may occur.

NOTICE: Do not allow the axle assembly to hang supported only by the upper control arm or lower control arms. This could damage the control arm bushings.

Using 2 suitable jackstands, support the rear axle.

6.3 Remove and discard the shock absorber upper nut, washer and insulator assembly (1 below).



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6.4 Remove and discard the shock absorber lower bolt and nut (2 and 3 above) and remove the shock absorber.

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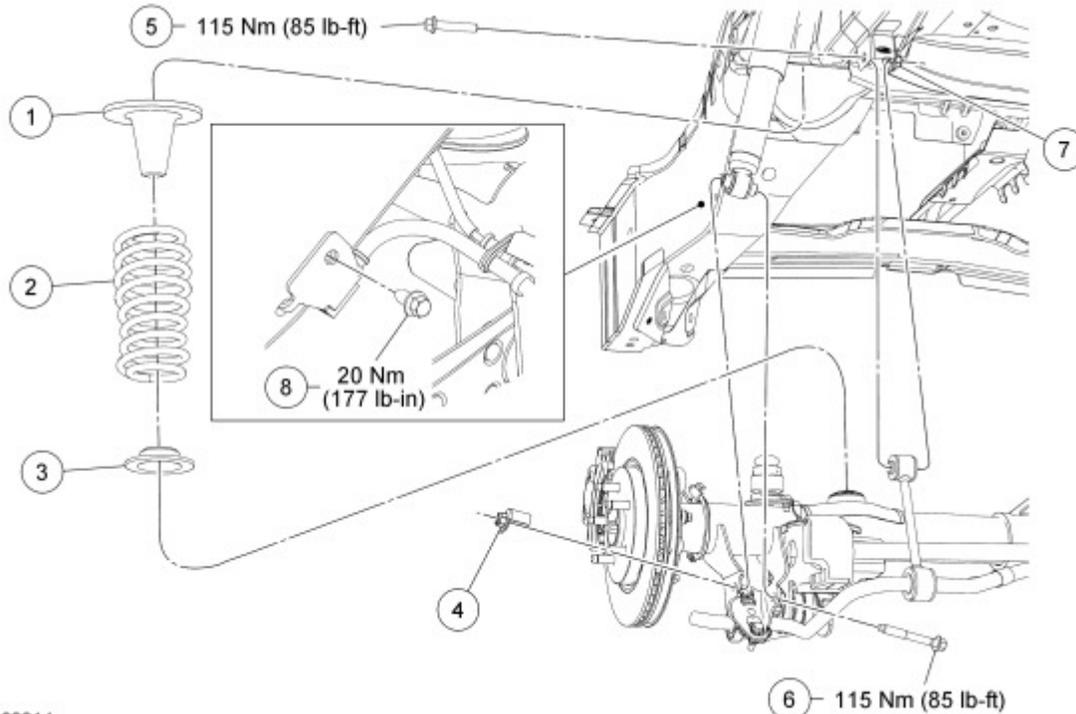


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6.5 Remove the brake hose bracket bolt (8 below) and set aside.



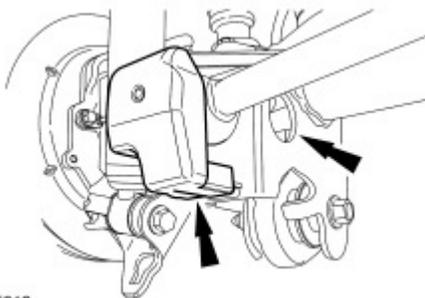
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6.6 Lower the rear axle and remove the spring.

6.7 Remove and discard the 2 bolts attaching the bump stops, and remove the bump stops.

7. Remove the panhard rod.

7.1 Using 2 screwdrivers inserted through the access hole, depress the tabs of the panhard rod bolt cover retaining clip and remove the cover.



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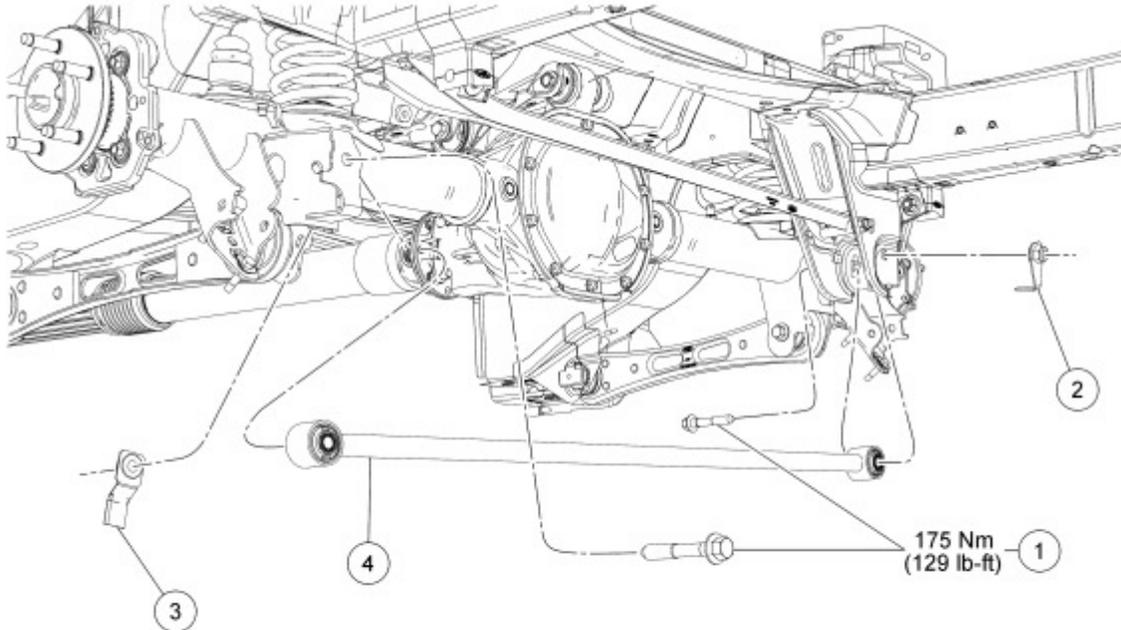


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7.2 Remove the panhard rod bolts and flagnuts (1, 2, and 3 below) and set them aside.



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8. Install the new Ford Performance panhard rod.

8.1 Set the new Ford Performance panhard rod and the factory rod side by side. Use the bolts to line the eyes of the panhard rods up and set the length of the new rod to match the factory rod. Tighten the jam nuts on the Ford Performance panhard rod.

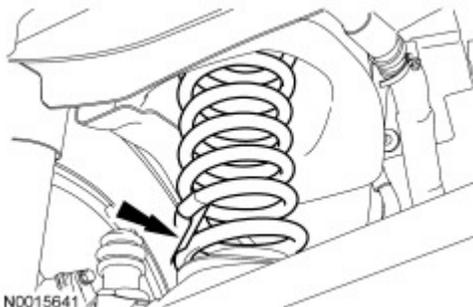
8.2 Install the new Ford Performance panhard rod, and tighten the bolts to 175Nm (129 lb-ft).

8.3 Reinstall the panhard rod access cover.

9. Install the new Ford Performance springs and jounce bumpers

9.1 Install the new Ford Performance bump stops using the provided bolts.

9.2 Install the new Ford Performance rear springs and ensure that the springs are seated properly in the spring seat.



10. Install the new Ford Performance stabilizer bar and rear shocks

10.1 Prepare the stabilizer bar for installation by greasing the new bushings and installing the inner and outer bushings to the bar.

10.2 Assemble the endlinks to the inner bushings using the included hardware.

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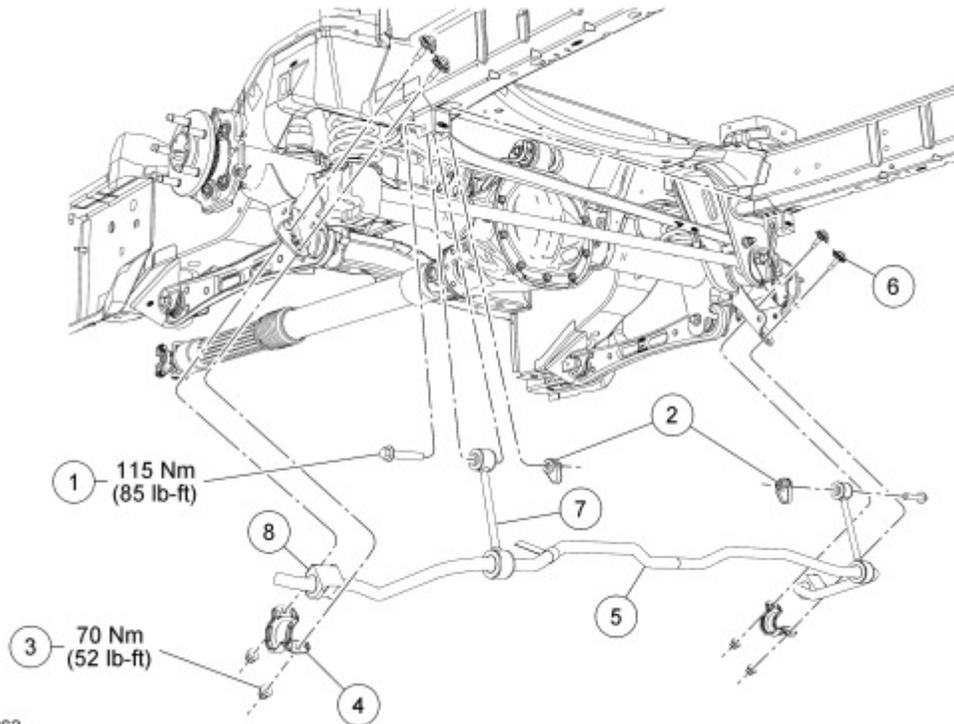


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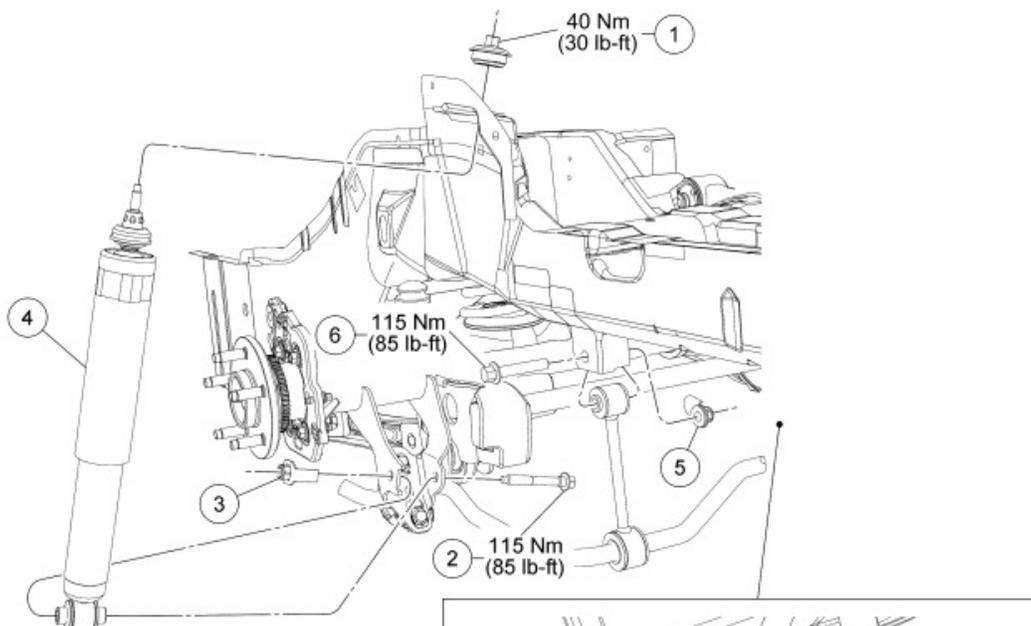
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10.3 Install the Ford Performance stabilizer bar to the axle housing using the provided backing plates and swaybar brackets. Tighten the included hardware to 70 Nm (52 lb-ft).



10.4 Using the provided new nuts and bolts (2 and 3 below), install the Ford Performance rear shocks. Tighten to 115 Nm (85 lb-ft)



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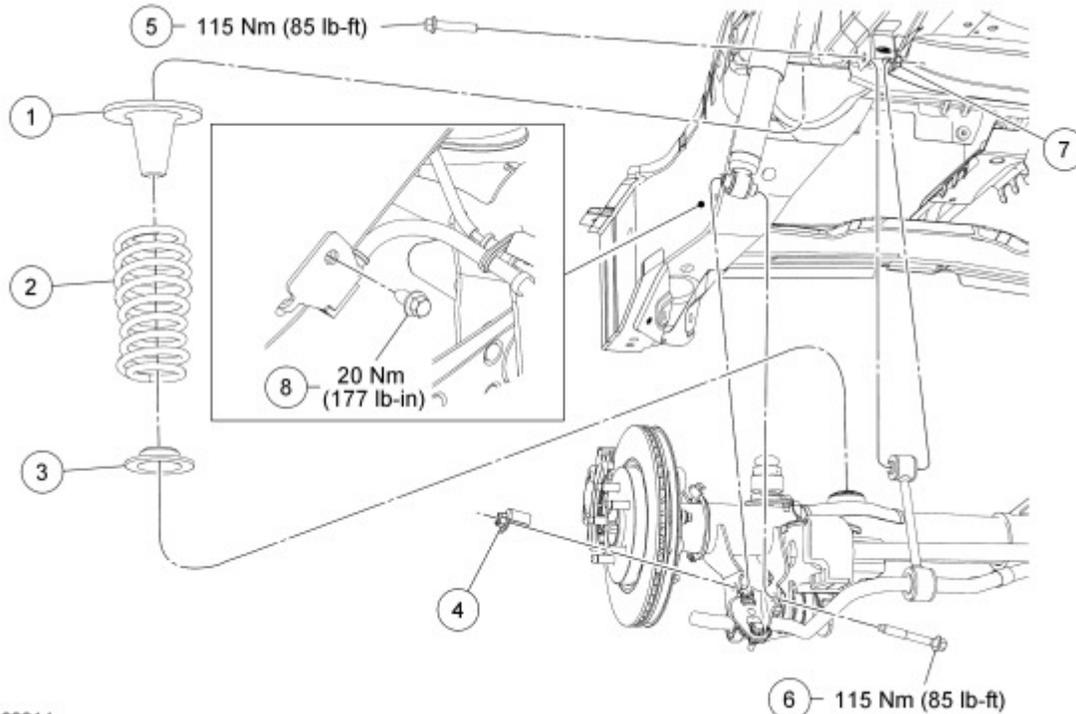


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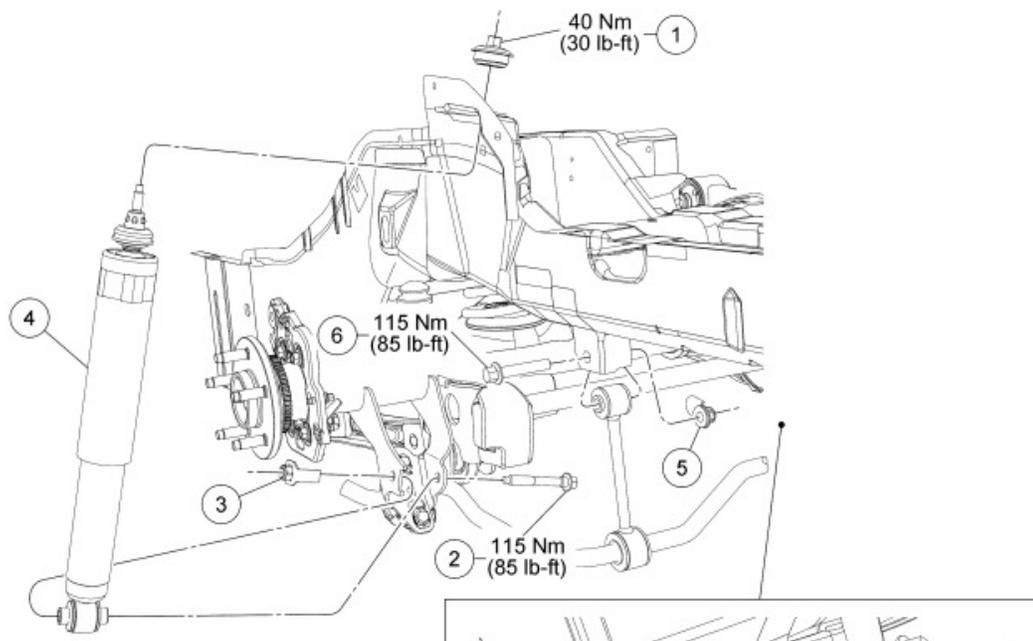
10.5 Raise the rear axle. Reinstall the brake brackets (8 below) and tighten to 20 Nm (177 lb-in).



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10.6 Install the stabilizer bar endplates to the body (5 and 7 above) and tighten to 115 Nm (85 lb-ft).

10.7 Install the shocks to the body using the new included upper nut, washer and insulator assembly (1 below).



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11. Install the wheels and tires

11.1 Tighten the wheel nuts in a star pattern. *Torque:* 148 lb.ft (200 Nm)

12. Set desired alignment

12.1 Choose either Ford factory Performance Pack alignment specification, or Ford Performance Suggested alignment.

Factory Spec	Camber	Caster	Total Toe
Front	-0.75	7.1	0.22
Rear	N/A	N/A	.05

Ford Performance Spec	Camber	Caster	Total Toe
Front	-1.2	7.1	0.22
Rear	N/A	N/A	.05

NOTE: Ford Performance alignment specification may result in accelerated tire wear, with the benefit of improved vehicle response and handling.

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