



M-FR3-FAEB Fiesta Suspension INSTALLATION INSTRUCTIONS

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

Please visit www.fordracingparts.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 !!!**

STRUT AND SPRING ASSEMBLY

Removal and Installation:

NOTICE: Suspension fasteners are critical parts because they affect performance of vital components and systems and their failure may result in major service expense. New parts must be installed with the same part numbers or equivalent part, if replacement is necessary. Do not use a replacement part of lesser quality or substitute design. Torque values must be used as specified during reassembly to make sure correct retention of these parts.

Caution: If you are not confident that you can complete the installation safely, have it completed by a certified technician! Failure to complete the installation correctly could cause damage to your vehicle.

Some fasteners are one time use. Below is a list of fasteners needed to complete the installation of this suspension kit. Parts can be purchased from your local Ford dealer

Upper Strut mount nuts	W715409-S440 (6ea)
Strut to front knuckle bolts	W500742-S442 (4ea)
Strut to front knuckle nuts	W520214-S442 (4ea)
Sway bar link nuts	W715135-S440 (2ea)
Rear shock upper mount bolts	W708828-S442 (4ea)
Rear shock lower mount bolts	W713343-S442 (2ea)

Factory Ford shop manuals are available from Helm Publications, 1-800-782-4356

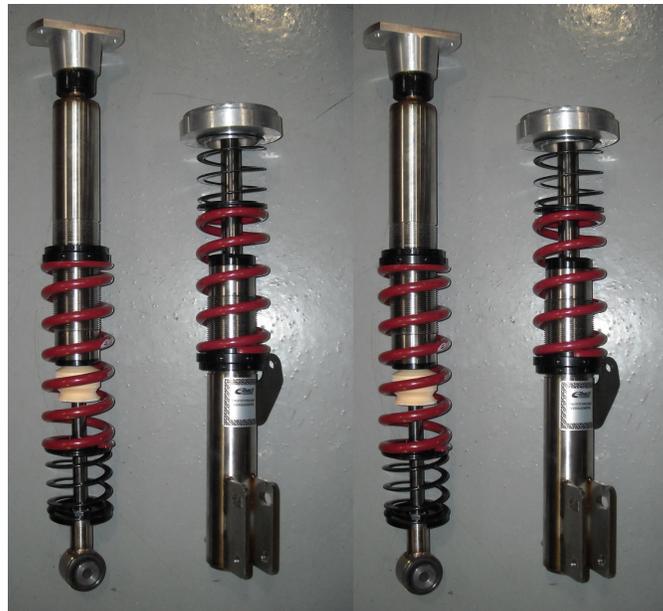


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PARTS IN KIT:

Quantity	Part Name
2	Front Coil Over Assembly
2	Rear Coil Over Assembly



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INSTALLATION INSTRUCTIONS:

STEP 1: Raise and support vehicle.

STEP 2: Disconnect the battery.

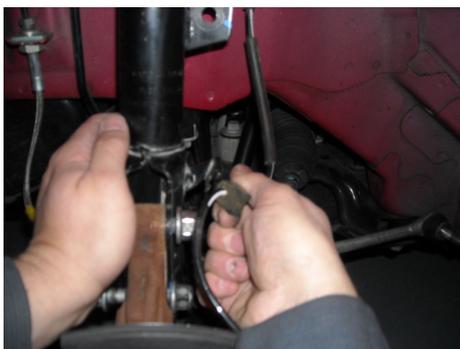
STEP 3: Remove all (4) wheels.



STEP 4: Remove the front sway bar link nut at the strut attachment point and remove link. Discard nuts.



STEP 5: Remove ABS wire from the strut housing by gently pulling grogmet from slot.



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STEP 6: Remove bolt holding the brake line retaining clip to the strut housing.



STEP 7: Remove the (2) strut to spindle pinch bolts. Discard bolts and nuts.



STEP 8: While supporting the spindle/rotor/caliper assembly, gently slide the spindle away from the lower strut.



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STEP 9: Remove (2) retaining nuts on the brake fluid reservoir and gently move the reservoir aside.



STEP 10: While supporting the strut assembly, remove the (3) upper strut bearing retaining nuts and remove the strut assembly from the vehicle. Discard nuts.



STEP 11: Using a spring compression tool, compress the spring and remove the strut bearing center nut. Remove the upper strut bearing assembly.

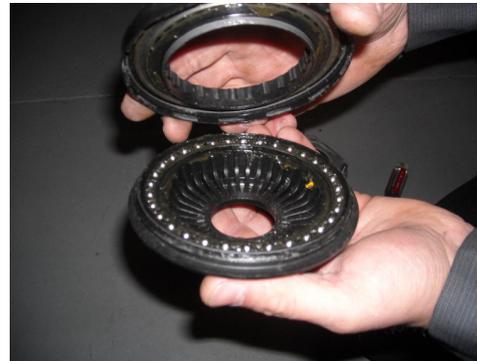


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STEP 12: Remove the center insert from the bearing assembly.



STEP 13: Gently pry apart the two halves of the bearing assembly to expose the bearing and race.



STEP 14: Remove both the bearing and race from the bottom half of the bearing housing.



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STEP 15: Install the bearing race and then bearing into the new lower bearing housing supplied in the kit.



STEP 16: Install the upper half of the original bearing assembly onto the new lower half. Verify the upper race is still in its proper placement.



STEP 17: Install the new upper bearing assembly onto the new front strut assembly. Install the center insert.



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STEP 18: Install the upper bearing center nut and torque to (35 lb-ft).



STEP 19: Install the strut assembly into the vehicle, install the (3) upper strut bearing retaining nuts and torque to (22 lb-ft).



STEP 20: Install the brake fluid reservoir onto the locating studs and torque to (62 lb-in).



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STEP 21: Install (2) strut to spindle pinch bolts and torque to (59 lb-ft) and then tighten an additional 90 degrees.



STEP 22: Install the front sway bar link into the strut, reinstall the nut and torque to (41 lb-ft).



STEP 23: Install the front brake line retaining bolt and torque to (19 lb-ft).





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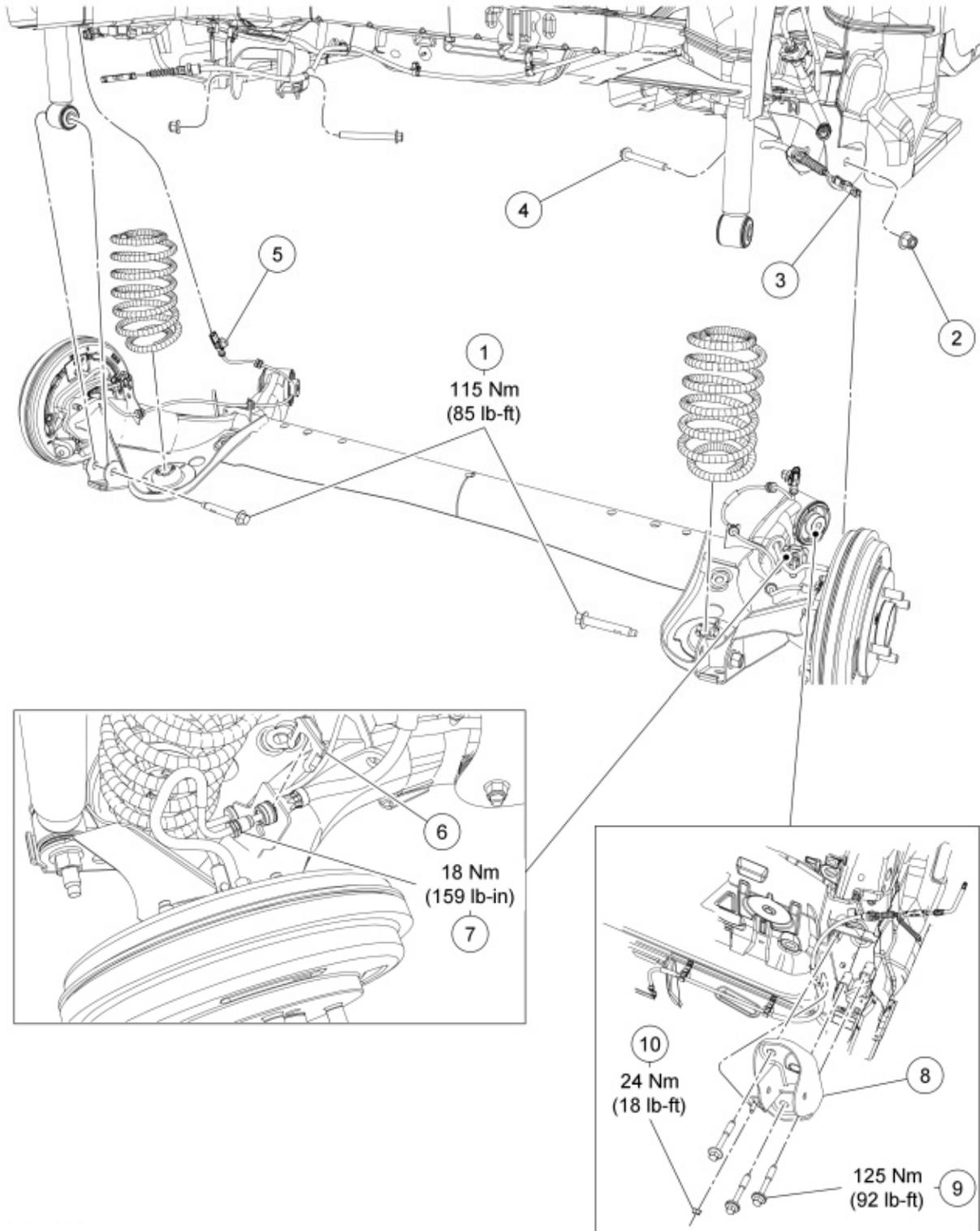
STEP 24: Install the ABS wire grommet into the slot on the strut housing.



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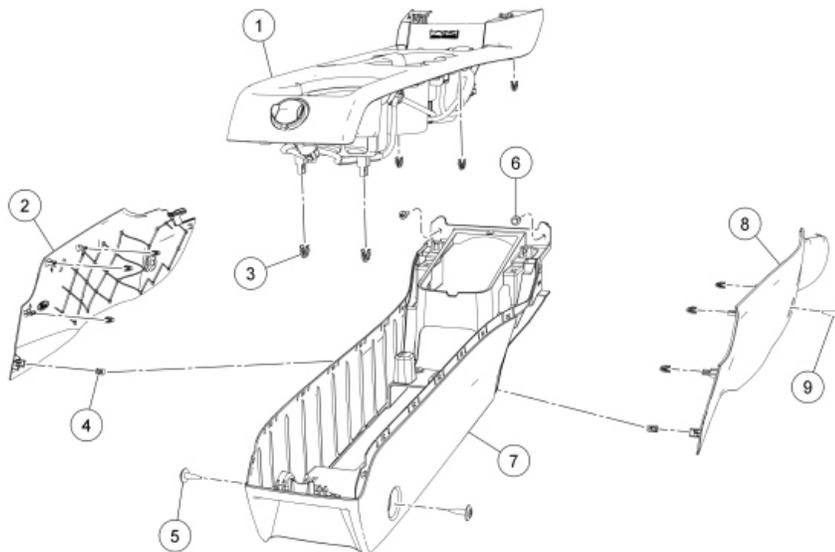
Item	Description
1	Shock absorber lower bolt
2	Trailing arm nut
3	Front parking brake cable-to-RH rear parking brake cable union
4	Trailing arm bolt
5	Anti-Lock Brake System (ABS) connector
6	Clip
7	Brake tube fitting
8	Bracket assembly
9	Bracket-to-frame bolts
10	Parking brake cable bracket nut

STEP 25: Axle Removal

NOTICE: Suspension fasteners are critical parts that affect 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.

1. Remove console

Floor console removal:



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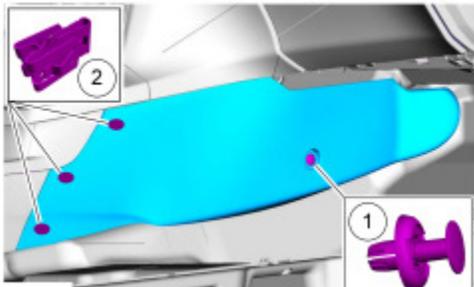
Item	Description
1	Floor console finish panel
2	RH floor console side panel
3	Floor console finish panel clips
4	Floor console side panel clips
5	Floor console rear screws
6	Floor console front screws
7	Floor console assembly
8	LH floor console side panel
9	Side panel push pin

1a. Using a non-marring tool, lift the corners of the instrument panel lower finish panel upward to release the retaining clips.

- Disconnect the electrical connectors.

1b. Remove the RH and LH floor console side trim panels.

- Remove the side panel push pins.
- Pull outward to release the floor console side panel clips



1c. Apply the parking brake handle in the full upright position.

1d. Position the seats fully forward and remove the 2 floor console rear screws.

1e. Remove the 2 floor console front screws

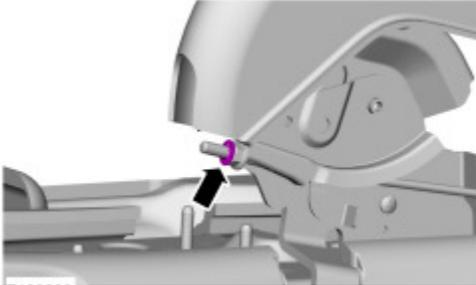
1f. Disconnect the 2 console electrical connectors on the right side and the 2 console electrical connectors on the left side. Separate the data cable pin type retainer from the console on the right side.

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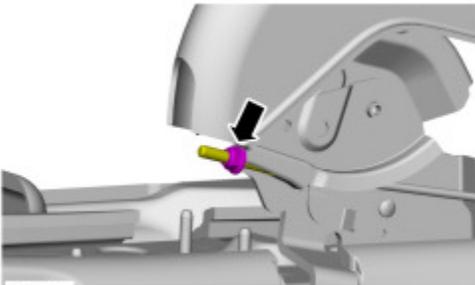
- 1g. Remove the floor console assembly.

Axle Removal (continued):

2. Remove the parking brake adjustment nut retaining clip.



3. Loosen the parking brake adjustment nut.

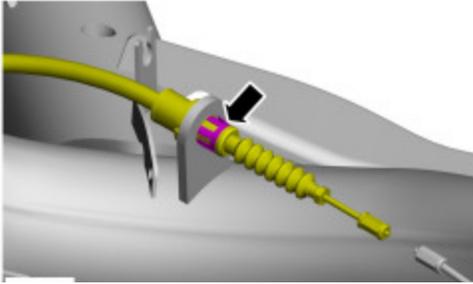


4. Loosen the parking brake adjustment nut 5 turns.
5. Remove the wheel and tire.

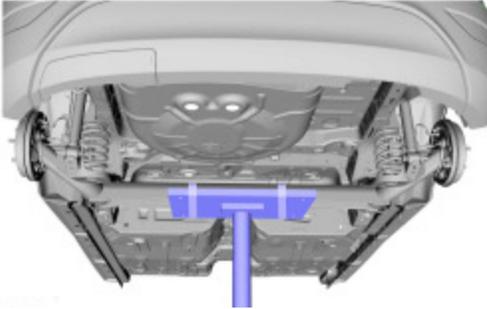


6. Disconnect both parking brake actuation lever cables. **NOTE:** *RH side shown, LH side similar.*
7. Compress the clips and pull both parking brake cables through the mounting brackets.

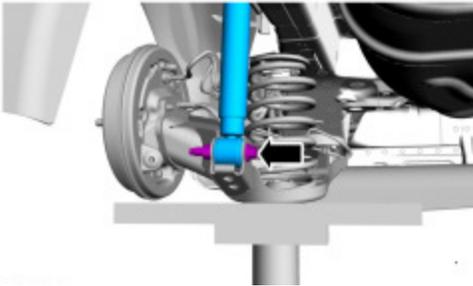
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8. Disconnect the rear brake tube fittings from the rear brake hoses and remove the clips.
NOTE: Cap the brake tube connections to prevent fluid loss.
9. Using a suitable jackstand, support the rear axle assembly.



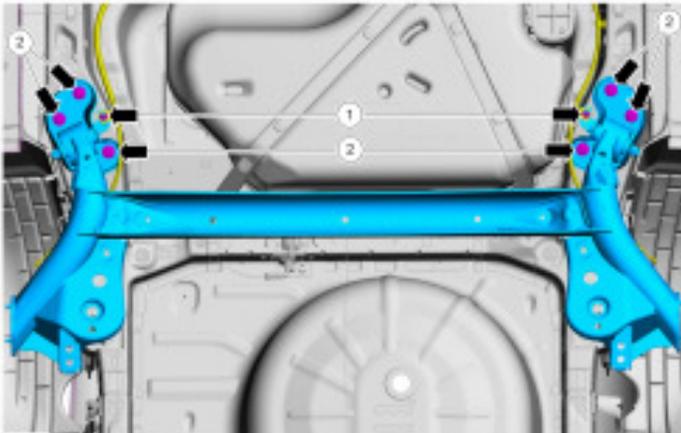
10. Remove the 2 shock absorber lower bolts. Discard bolts.



11. Remove the 2 parking brake cable bracket nuts. (Item 10

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12. Lower the support on the twist beam slowly, then remove both rear springs.



13. Remove the 6 bracket-to-frame bolts and remove the axle assembly.
14. Lower the subframe and remove the 2 trailing arm bolts.

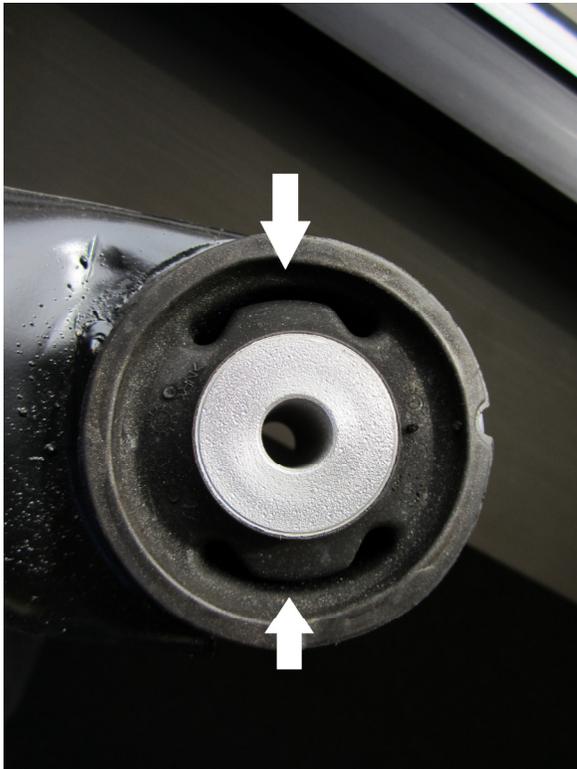
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STEP 26: Trailing Arm Bushings Modification



Loctite Epoxy UPC 079340686205 or equivalent recommended

1. Position axle vertically to fill bushing voids.



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2. Mask off opposite side of bushing. Epoxy may or may not flow to opposite side of bushing.
3. Using epoxy to fill voids.
4. Allow epoxy to cure before repositioning to fill next void.

STEP 27: Remove (2) upper shock retaining bolts and remove shock from vehicle. Discard bolts.



STEP 28: Looking at the new upper shock mount, verify the locating holes that are offset face the centerline of vehicle, then place the new coil over assembly into the vehicle.



STEP 29: Install the (2) upper rear shock retaining bolts and torque to (18 lb-ft).

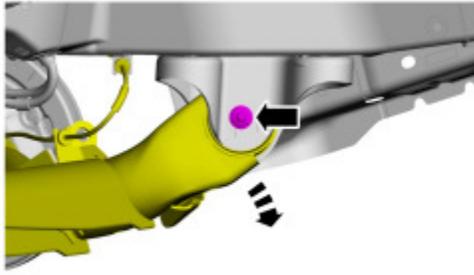


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STEP 30:

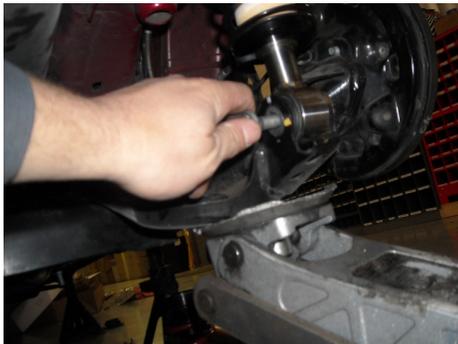
1. Install axle to subframe brackets using the trailing arm bolts.
 - To install, tighten to 80Nm (59 lb-ft) then tighten additional 120 degrees



2. Install rear axle subframe assembly
3. Install the 6 bracket-to-frame bolts and tighten to 125Nm (92 lb-ft).

STEP 31:

Raise the rear twist beam to align the lower shock. Install (2) bolts and torque to (85 lb-ft).



STEP 32:

Attach parking brake cables by reversing removal procedure. Adjust parking brake cable. Reassembly console.

STEP 33:

Attach brake lines by reversing removal procedure

STEP 34:

Bleed brakes

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STEP 35: Install the (4) wheels.



⚠ WARNING: Retighten wheel nuts within 160 km (100 mi) after a wheel is reinstalled. Wheels can loosen after initial tightening. Failure to follow this instruction may result in serious injury to vehicle occupant(s).

NOTICE: Failure to tighten the wheel nuts in a star/cross pattern can result in high brake disc runout, which speeds up the development of brake roughness, shudder and vibration.

NOTE: *The wheel nut torque specification is for clean, dry wheel studs and wheel nut threads.*

STEP 35a: Install the 4 wheel nuts and tighten by hand.

- Tighten the wheel nuts in a star/cross pattern to 135 Nm (100 lb-ft).