

03 - Differential and Driveline/Front Axle - M210/Removal and Installation

REMOVAL AND INSTALLATION

Labor Operations: Click to hide the list of LOPs associated with this procedure

Primary LOP	Related LOP	Description	Skill Level	Skill Category
02110110	-	Axle, front assembly M186/M210	2 - Skilled	3

REMOVAL

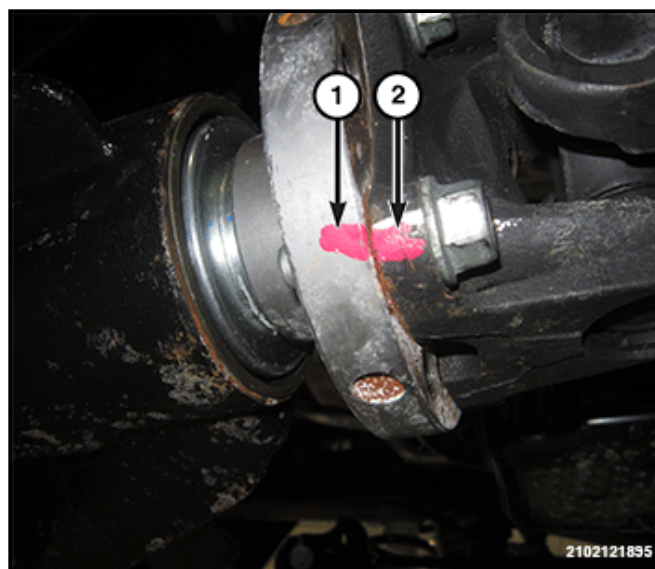
1. Raise and support the vehicle (Refer to 04 - Vehicle Quick Reference/Hoisting/Standard Procedure) .

2. Position and secure a lift under the axle.

3. Mark an installation reference line across the front driveshaft flange (2) and the axle flange (1).

CAUTION:

Driveshaft removal is a two-person operation. Never allow the driveshaft to hang from the center bearing, or while only connected to the transmission or rear axle flanges. An assistant is required. If a driveshaft section is hung unsupported, damage may occur to the shaft, joint and center bearing from over-angulation. This may result in driveline vibrations or component failure.



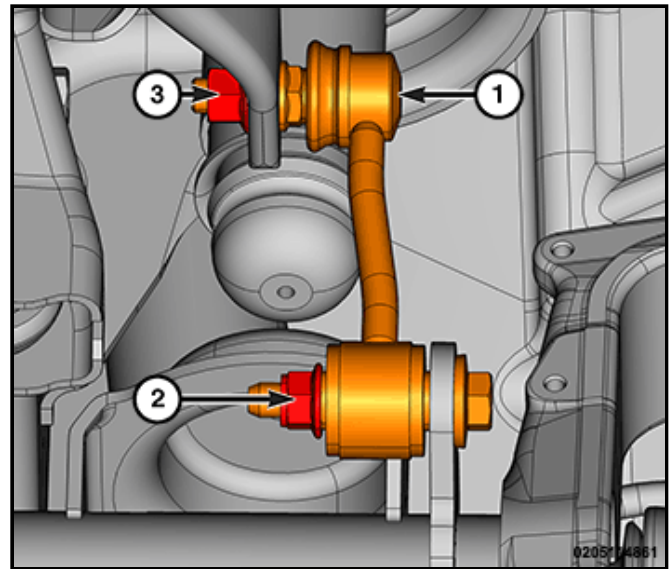
4. Disconnect the TRU-LOK wire harness connectors and axle vent hose.

5. Remove the calipers and rotors from the axle (Refer to 05 - Brakes, Base/Hydraulic/Mechanical/ROTOR, Brake/Removal and Installation) .

6. Remove the wheel speed sensors from the hub bearings (Refer to 05 - Brakes, ABS/Electrical/SENSOR, Wheel Speed, Front/Removal and Installation) .

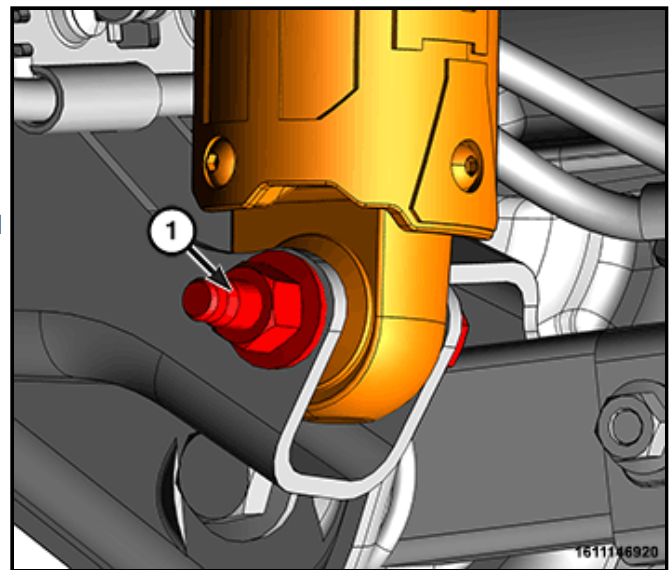
7. Remove brake lines and sensor wiring from the axle.

8. Remove the stabilizer bar links (1) from the axle brackets.



9. Remove the fasteners (1) from the lower shock absorber mount.

10. Remove the drag link (Refer to 19 - Steering/Linkage, Link and Coil/DRAG LINK, Steering, Link and Coil/Removal and Installation) .

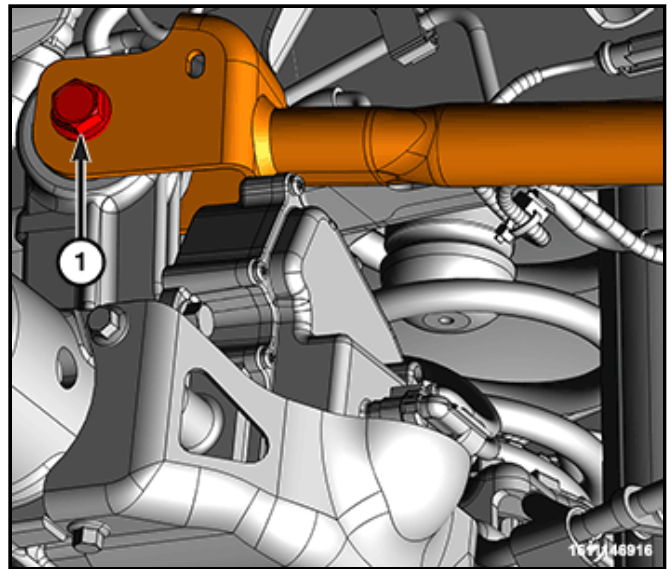


11. Remove the steering damper from the axle (Refer to 19 - Steering/Linkage, Link and Coil/DAMPER, Steering, Link and Coil/Removal and Installation) .

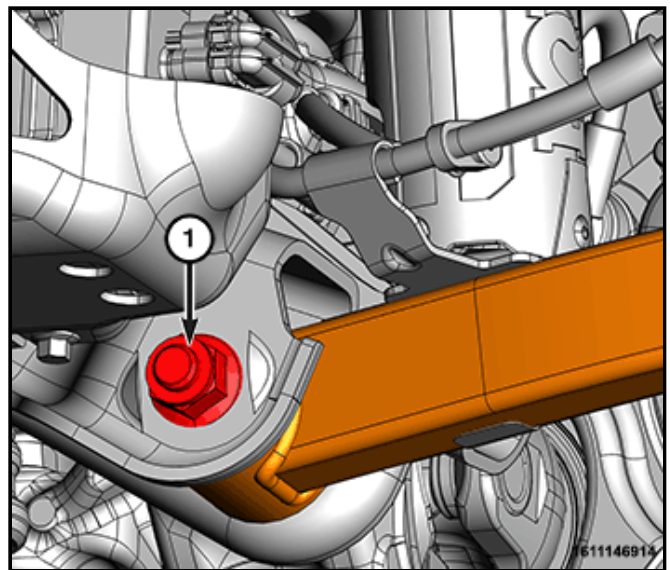
12. Remove the track bar from the axle (Refer to 02 - Front Suspension/Front/TRACK BAR, Front/Removal and Installation) .

13. Remove the tie rod ends from the knuckles and place out of the way (Refer to 19 - Steering/Linkage, Link and Coil/END, Tie Rod/Removal and Installation) .

14. Remove the upper control arm bolts (1) from the axle brackets.



15. Mark the lower control arm cams and loosen the lower control arm bolts (1).
16. Lower the axle enough to remove the coil springs from the axle.
17. Remove the lower control arm bolts and remove the axle from vehicle.

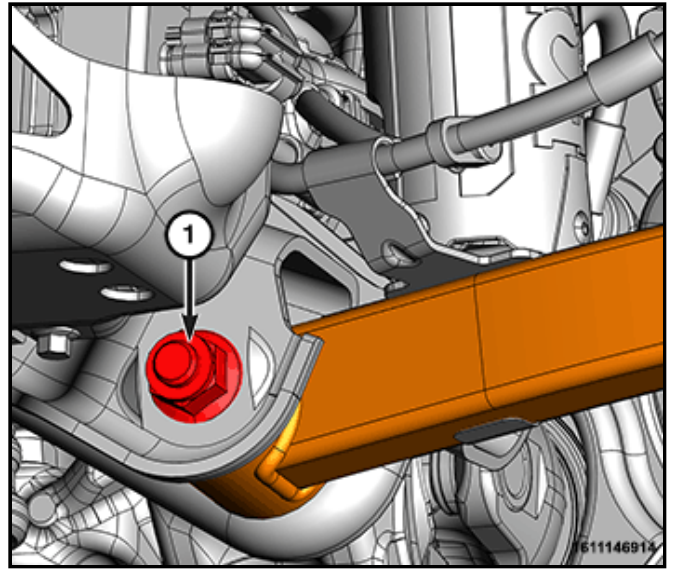


INSTALLATION

CAUTION:

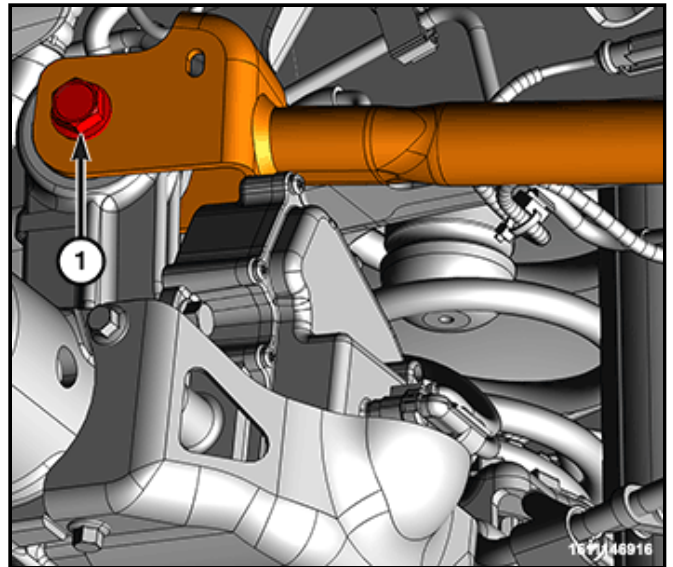
The weight of the vehicle must be supported by the springs before suspension arms and track bar fasteners can be tightened. Failure to follow these instruction will result in damaging the bushings.

1. Position the axle under the vehicle.
2. Install the lower control arms in the axle brackets.
3. Install the lower control arm bolts (1) with the cams and loosely install the nuts.

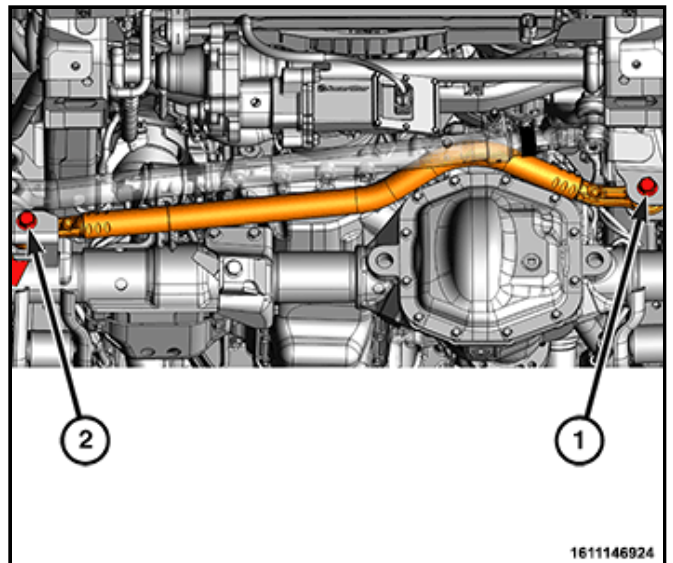


4. Install the coil springs on the axle and raise the axle into position.

5. Install the upper control arms (1) on the axle brackets and loosely install bolts and nuts.

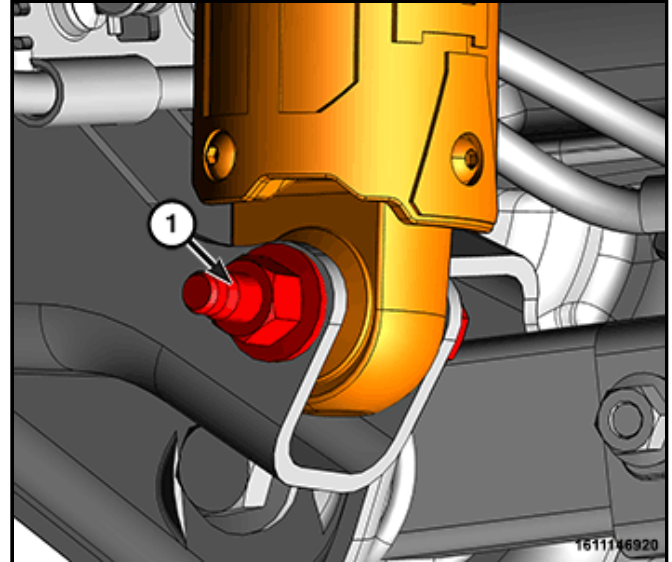


6. Install the track bar (2) in the axle bracket and install the bolt. Tighten the bolts to the proper (Torque Specifications)

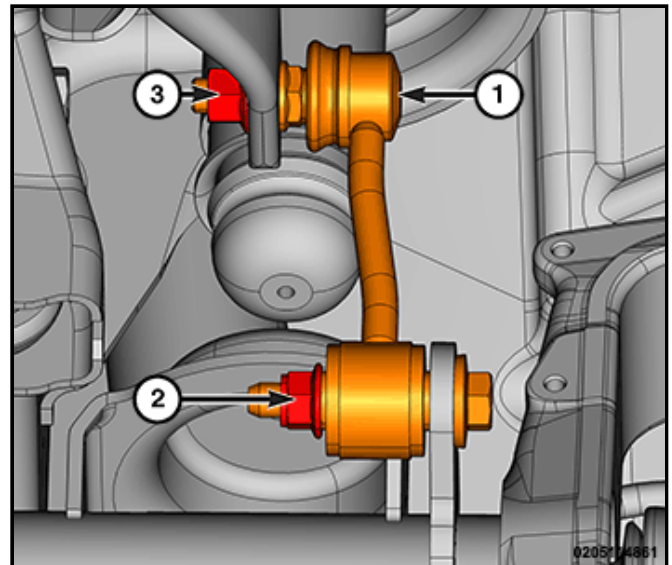


7. Install the steering damper (Refer to 19 - Steering/Linkage, Link and Coil/DAMPER, Steering, Link and Coil/Removal and Installation) .
8. Install the drag link (Refer to 19 - Steering/Linkage, Link and Coil/DRAG LINK, Steering, Link and Coil/Removal and Installation) .
9. Install the tie rod ends (Refer to 19 - Steering/Linkage, Link and Coil/END, Tie Rod/Removal and Installation) .

10. Install the shock absorber bolts (1) and tighten to the proper (Torque Specifications) .



11. Install the stabilizer bar links (1), stabilizer nuts and tighten the stabilizer nuts to the proper (Torque Specifications) .

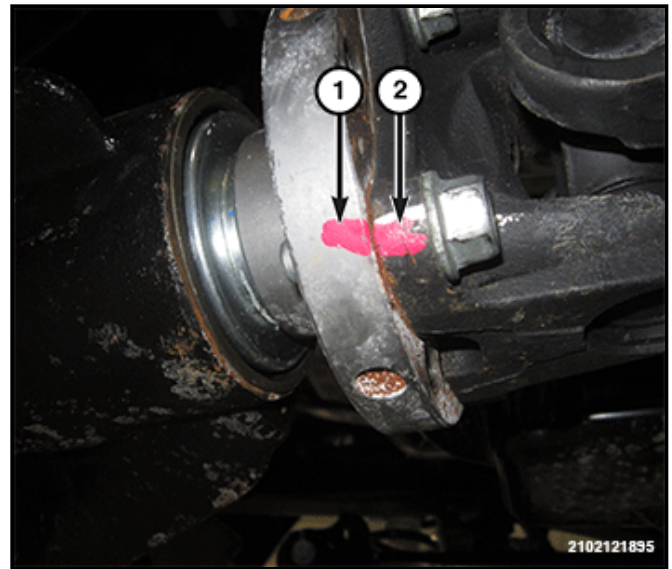


12. Install the wheel speed sensor wire harness on the axle and install sensors in hub (Refer to 05 - Brakes, ABS/Electrical/SENSOR, Wheel Speed, Front/Removal and Installation) .
13. Install the brake rotors, calipers and brakes lines (Refer to 05 - Brakes, Base/Hydraulic/Mechanical/CALIPER, Disc Brake, Front/Removal and Installation) .
14. Connect the Tru-Lok wire harness connector and the axle vent hose.

NOTE:

Driveshaft bolts must be replaced with NEW. If NEW bolts are not available clean the old bolts and apply Mopar® Lock and Seal Adhesive or equivalent.

15. Install the driveshaft with the axle flange and driveshaft marks aligned and tighten the **NEW** bolts to the proper (Torque Specifications) .



16. Remove the support from the axle.
17. Install the tire and wheel assembly.
18. Remove the support and lower the vehicle.
19. Align the lower control arm cams to the reference marks and tighten the control arm nuts to the proper (Torque Specifications) .
20. Tighten the upper control arm nuts to the proper (Torque Specifications) .

21. Tighten the track bar bolt (2) to the proper (Torque Specifications) .

