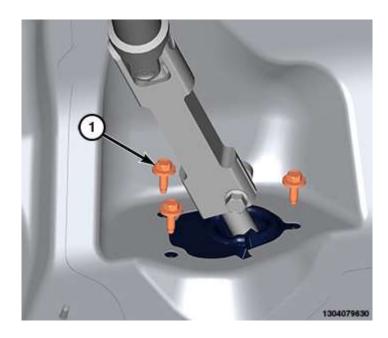
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Removal & Installation

REMOVAL AND INSTALLATION

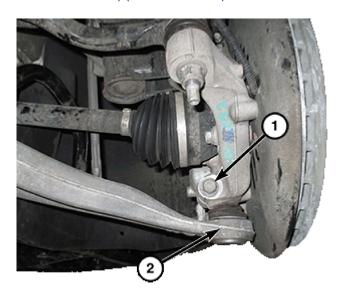
REMOVAL



- 1. Disconnect and isolate the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector first before disconnecting the negative battery cable.
- 2. From inside the vehicle remove the steering shaft boot bolts (1).
- 3. Raise and support the vehicle (Refer to Vehicle Quick Reference/Hoisting/Standard Procedure).

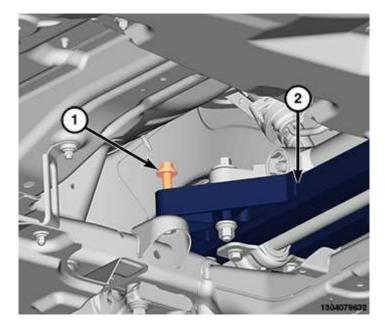


- 4. Loosen the exhaust clamp (1) and separate the exhaust (2).
- 5. Remove the side belly pans (Refer to Frame and Bumpers/Under Body Protection/BELLY PAN/Removal and Installation).(Refer To List 1)

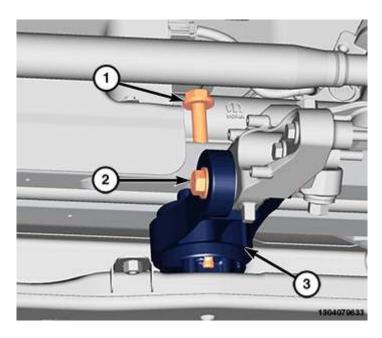


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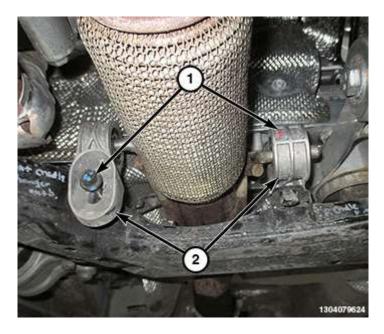
6. Remove the bolts (1) and separate the lower control arm ball joints (2) from the spindles.



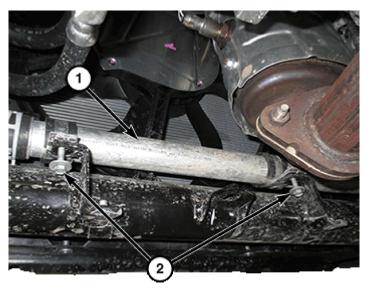
7. Remove and **DISCARD** the six bolts (1) attaching the steering gear crossmember (2) to the suspension crossmember.



8. Remove the bolt (1) attaching the mount (3) to the crossmembers and loosen the bolt (2).



9. Remove the bolts (1) attaching the exhaust hangers (2) to the crossmember.



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10. Remove the bolts (2) attaching the coolant pipe (1) to the crossmember.



11. Remove the two bolts (1) attaching the radiator support (2) to the crossmember.



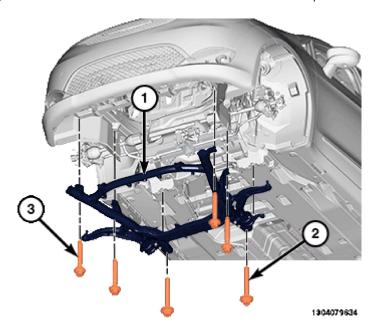
12. Using a marker or equivalent, mark the front position of the crossmember on the frame mount (1).



13. Using a marker or equivalent, mark the rear position of the crossmember on the frame mount (1).

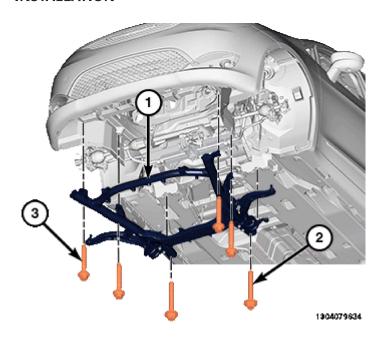


14. Remove the rear control arm mount outer bolts (1).



- 15. Support the crossmember (1) with a suitable lifting device and remove and **DISCARD** the front (3) and rear (2) bolts and remove the crossmember assembly.
- 16. Remove the lower control arms (Refer to Front Suspension/Front/ARM, Lower Control/Removal and Installation).

INSTALLATION



- 1. Install the lower control arms (Refer to 02 Front Suspension/Front/ARM, Lower Control/Removal and Installation).
- 2. Using a suitable lifting device, install the crossmember and install the **NEW** bolts (2, 3).



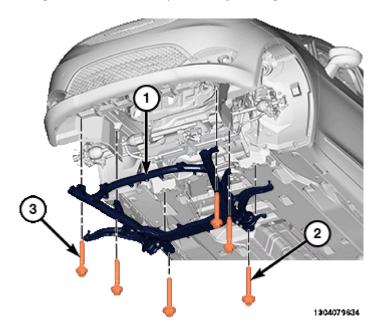
3. Install the rear control arm mount outer bolts (1).



4. Using the marks made previously during removal, line up the crossmember with the rear marks (1).



5. Using the marks made previously during removal, line up the crossmember with the front marks (1).



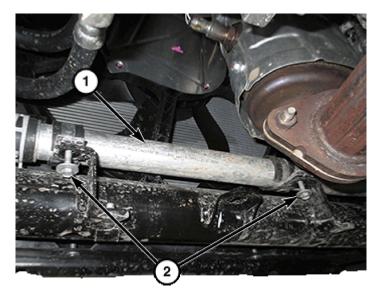
- 6. Tighten the rear bolts (2) to the proper (Torque Specifications).
- 7. Tighten the front four bolts (3) to the proper (Torque Specifications).



8. Tighten the control arm mount bolts to the proper (Torque Specifications).

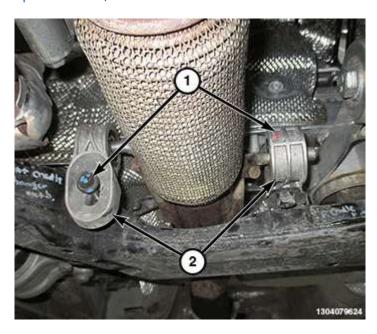


9. Install the two bolts (1) attaching the radiator support (2) to the crossmember and tighten to the proper (Torque Specifications).

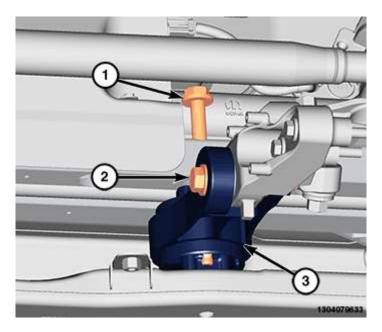


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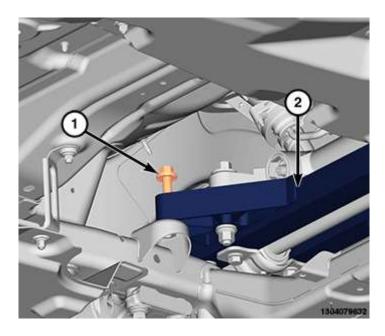
10. Install the bolts (2) attaching the coolant pipe (1) to the crossmember and tighten to the proper (Torque Specifications).



11. Install the bolts (1) attaching the exhaust hangers (2) to the crossmember and tighten to the proper (Torque Specifications).



- 12. Position the mount (3) back into place and install the bolt (1).
- 13. Tighten the bolts (1, 2) to the proper (Torque Specifications).



14. Install the six **NEW** bolts (1) attaching the steering gear crossmember (2) to the suspension crossmember and tighten to the proper (Torque Specifications).

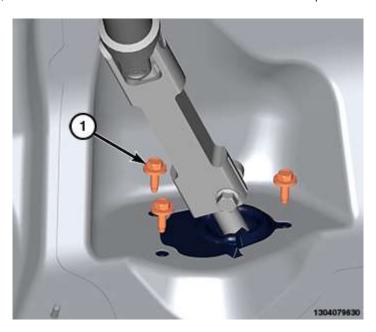


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- 15. Connect the lower control arm ball joints (2) to the spindles and install the **NEW** bolts (1).
- 16. Tighten the bolts to the proper (Torque Specifications).



17. Position the exhaust (2) back and tighten the clamp (1) to the proper (Torque Specifications).



- 18. Lower the vehicle and from inside the vehicle Install the steering shaft boot bolts (1).
- 19. Tighten the bolts (1) to the proper (Torque Specifications).
- 20. Connect the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), connect the IBS connector to the negative battery cable.

Refer To List:

List 1

- 13 Frame and Bumpers / Under Body Protection / BELLY PAN, Engine / Removal and Installation
- 13 Frame and Bumpers / Under Body Protection / BELLY PAN, Front / Removal and Installation
- 13 Frame and Bumpers / Under Body Protection / BELLY PAN, Rear / Removal and Installation
- 13 Frame and Bumpers / Under Body Protection / BELLY PAN, Rear Suspension / Removal and Installation
- 13 Frame and Bumpers / Under Body Protection / BELLY PAN, Side / Removal and Installation