



## STAR ONLINE PUBLICATION



**Case Number:** S2523000050

**Release Date:** May 2025

**Symptom/Vehicle Issue:** Vibration From Engine Or Powertrain. Powertrain Mounting Neutralization Procedure.

**Discussion:** Service information is in the process of being updated to include powertrain mount installation best practices. The new procedure will neutralize the mounts to lessen or remove unwanted mount tension that can lead to vibration complaints. See the below procedure for the improved steps.

## POWERTRAIN MOUNT NEUTRALIZATION – RU (ALL VARIANTS)

**NOTE:** RU FWD left transmission mount shown (Fig 1).

1. Remove or relocate components as required to access the engine mount bolts ([Refer to 09 - Engine/Engine Mounting/INSULATOR, Engine Mount/Removal](#)).
2. Loosen the left trans mount to transmission bracket bolts (Fig 1. Labelled 1).

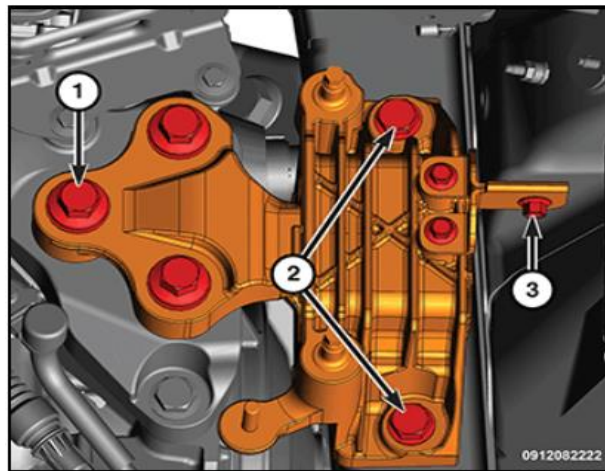


Fig 1. Left Transmission Mount

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3. Loosen the left trans mount to frame rail bolt (Fig 1. Labelled 2).
4. Loosen the bolt for the left trans mount to strut tower (Fig 1. Labelled 3) attachment, if equipped.
5. If necessary for access, remove the bolts (Fig 2. Labelled 1) and wire harness bracket from the left transmission mount bracket.

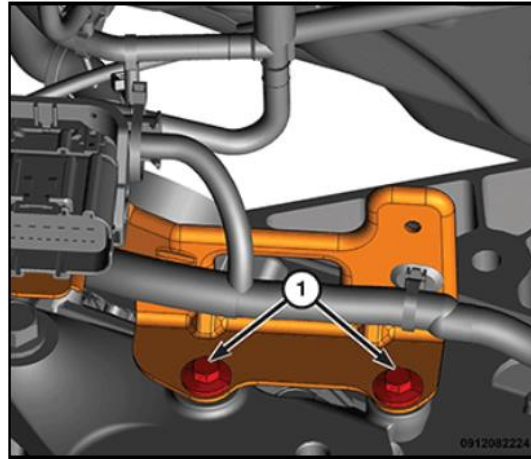


Fig 2. Harness Bracket

**NOTE:** RU FWD right engine mount shown (Fig 3).

1. Remove or relocate components as required to access the engine mount bolts ([Refer to 09 - Engine/Engine Mounting/INSULATOR, Engine Mount/Removal](#)).
2. Loosen the right engine mount to engine bracket bolts (Fig 3. Labelled 2).

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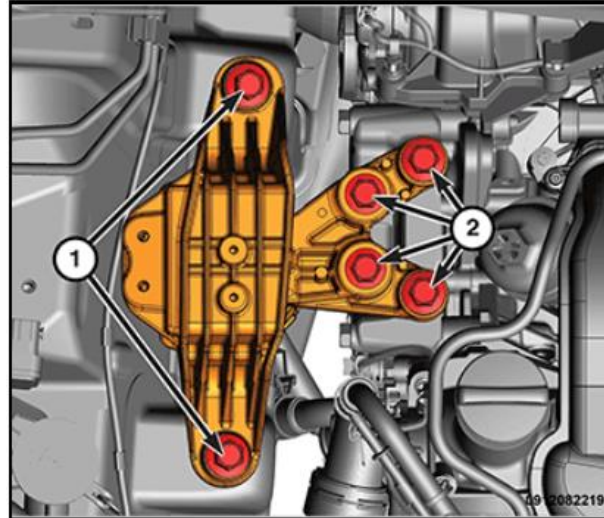


Fig 3. Right Engine Mount

3. Loosen the right engine mount to frame rail bolts (Fig 3. Labelled 1).
4. Loosen the bolt for the right engine mount to strut tower (Fig 4. Labelled 1) attachment, if equipped.

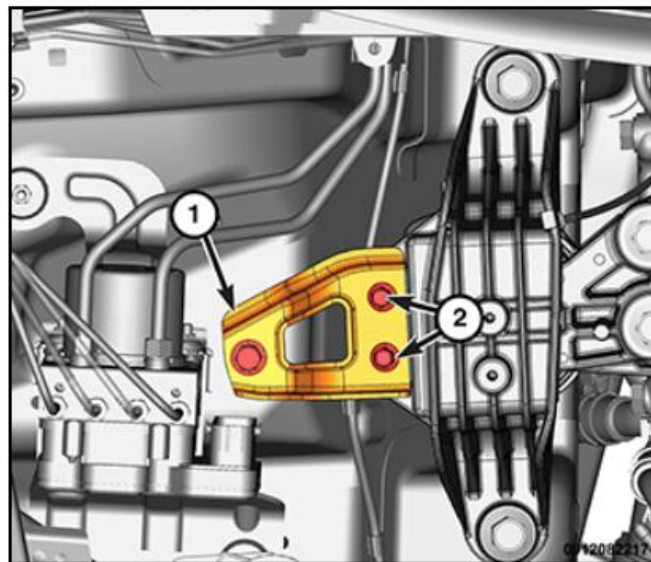


Fig 4. Right Mount to Strut Tower Bracket

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**NOTE:** RU FWD rear engine torque mount shown (Fig 5).

1. Raise and support the vehicle ([Refer to 04 - Vehicle Quick Reference/Hoisting/Standard Procedure](#)).
2. Remove the belly pan (if equipped) ([Refer to 13 - Frame and Bumpers/Under Body Protection/BELLY PAN/Removal](#)).
3. Loosen the rear engine torque mount to transmission bracket bolt (Fig 5. Labelled 1).

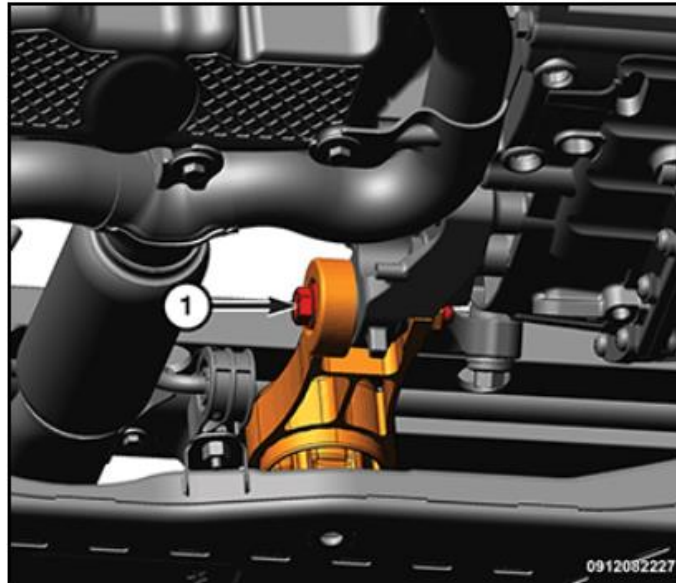


Fig 5. Rear Engine Torque Mount to Trans

4. Loosen the rear mount to crossmember bolt (Fig 6. Labelled 1).

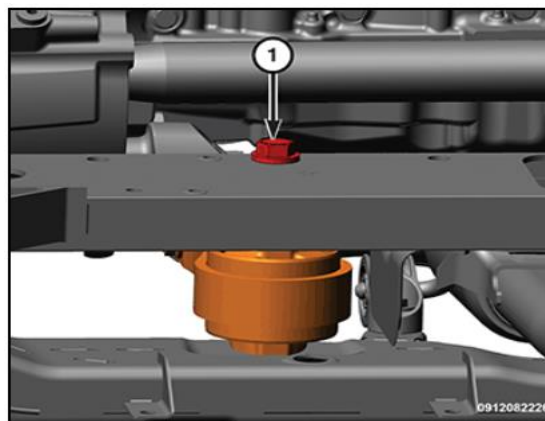


Fig 6. Rear Engine Torque Mount to Cradle

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**NOTE:** RU FWD rear engine torque mount shown (Fig 6).

1. Raise and support the vehicle ([Refer to 04 - Vehicle Quick Reference/Hoisting/Standard Procedure](#)).
2. Center the powertrain in the engine mounts:
  - Allow the powertrain to relax.
  - Manually position the powertrain as close as possible to a position where the right and left engine mounts appear centered in their housings and are not skewed front-to-rear or side-to-side.
  - Again, allow the powertrain to relax.

**NOTE:** RU FWD rear engine torque mount shown (Fig 7).

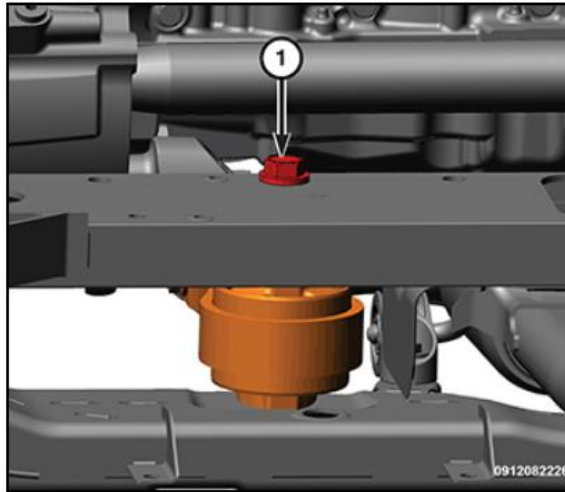


Fig 7. Rear Engine Torque Mount to Cradle

1. Tighten the rear engine mount to crossmember bolt (Fig 7. Labelled 1) to the proper ([Torque Specifications](#)).
2. Tighten the rear engine torque mount to transmission bracket bolt (Fig 8. Labelled 1) to the proper ([Torque Specifications](#)).

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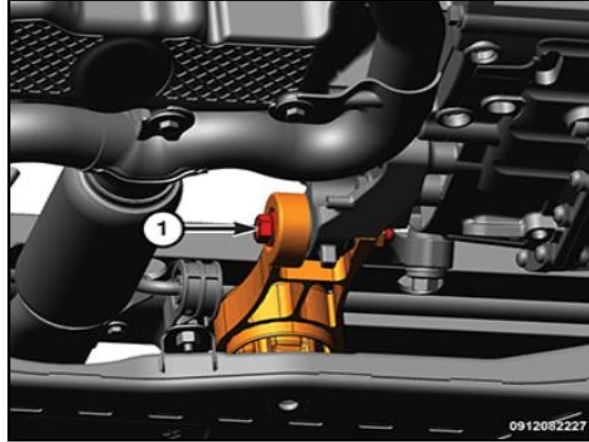


Fig 8. Rear Engine Torque Mount to Cradle

3. Install the belly pan (if equipped) ([Refer to 13 - Frame and Bumpers/Under Body Protection/BELLY PAN/Installation](#)).
4. Lower the vehicle.

**NOTE:** RU FWD right engine mount bracket shown.

1. Tighten the right engine mount to strut tower bolt (Fig 9. 1) to the proper ([Torque Specifications](#)), if equipped.

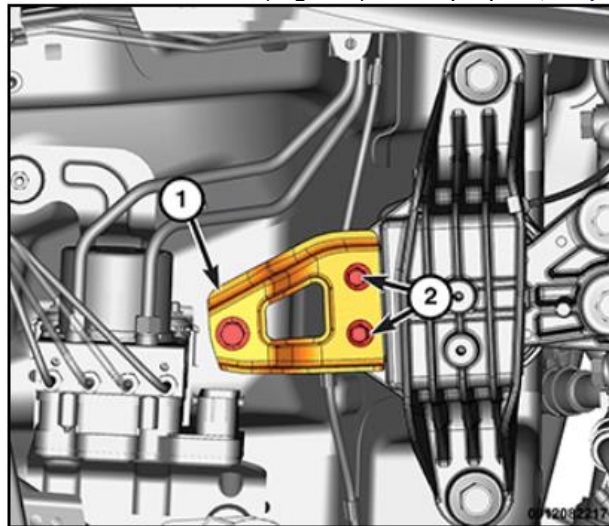


Fig 9. Right Mount To Strut Bracket

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**NOTE:** RU FWD right engine mount shown.

1. Tighten the right engine mount to frame rail bolts (Fig 10.abeled 1) to the proper [\(Torque Specifications\)](#).

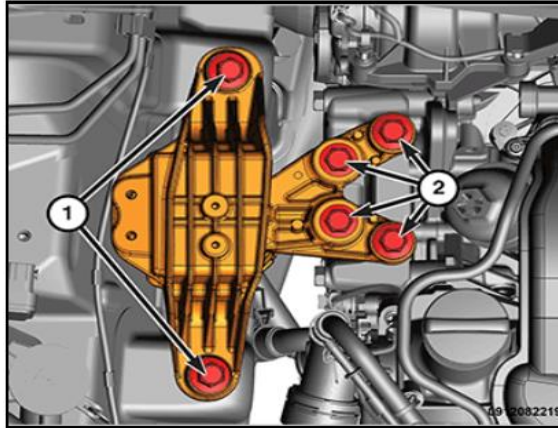


Fig 10. Right Engine Mount

2. Tighten the right engine mount to engine bracket bolts (Fig 10. Labeled 2) to the proper [\(Torque Specifications\)](#).
3. Tighten the left transmission mount to strut tower bolt (Fig 11. Labeled 3) to the proper [\(Torque Specifications\)](#), if equipped.

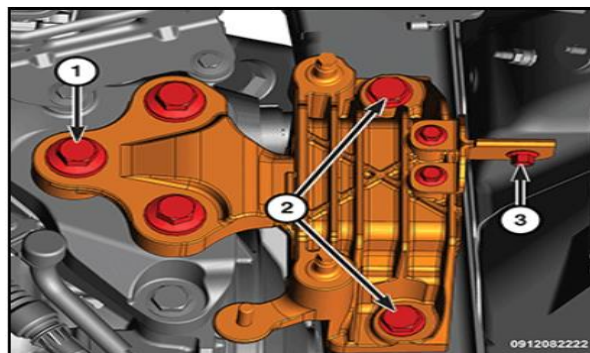


Figure 11. Left Transmission Mount

4. Tighten the left transmission mount to frame rail bolts (Fig 11. Labeled 2) to the proper [\(Torque Specifications\)](#).
5. Tighten the left transmission mount to transmission bracket bolts (Fig 11. Labeled 1) to the proper [\(Torque Specifications\)](#).
6. Install the components removed to access the engine mount bolts [\(Refer to 09 - Engine/Engine Mounting/INSULATOR, Engine Mount/Installation\)](#).

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