

Last modified: 20/05/2021 20:03:25

Spring - Rear Suspension - LH (Remove and Replace)



Correction code 31153002

FRT 0.85

NOTE: Unless otherwise explicitly stated in the procedure, the above correction code and FRT reflect all of the work required to perform this procedure, including the linked procedures. **Do not stack correction codes unless explicitly told to do so.**

NOTE: See [Flat Rate Times](#) to learn more about FRTs and how they are created. To provide feedback on FRT values, email LaborTimeFeedback@tesla.com. Make sure to wear proper PPE when performing below procedure.

- Gedore Spring Compressor
- 1137855-00-A TOOL, REAR RIDE HEIGHT TORQUE, MODEL 3

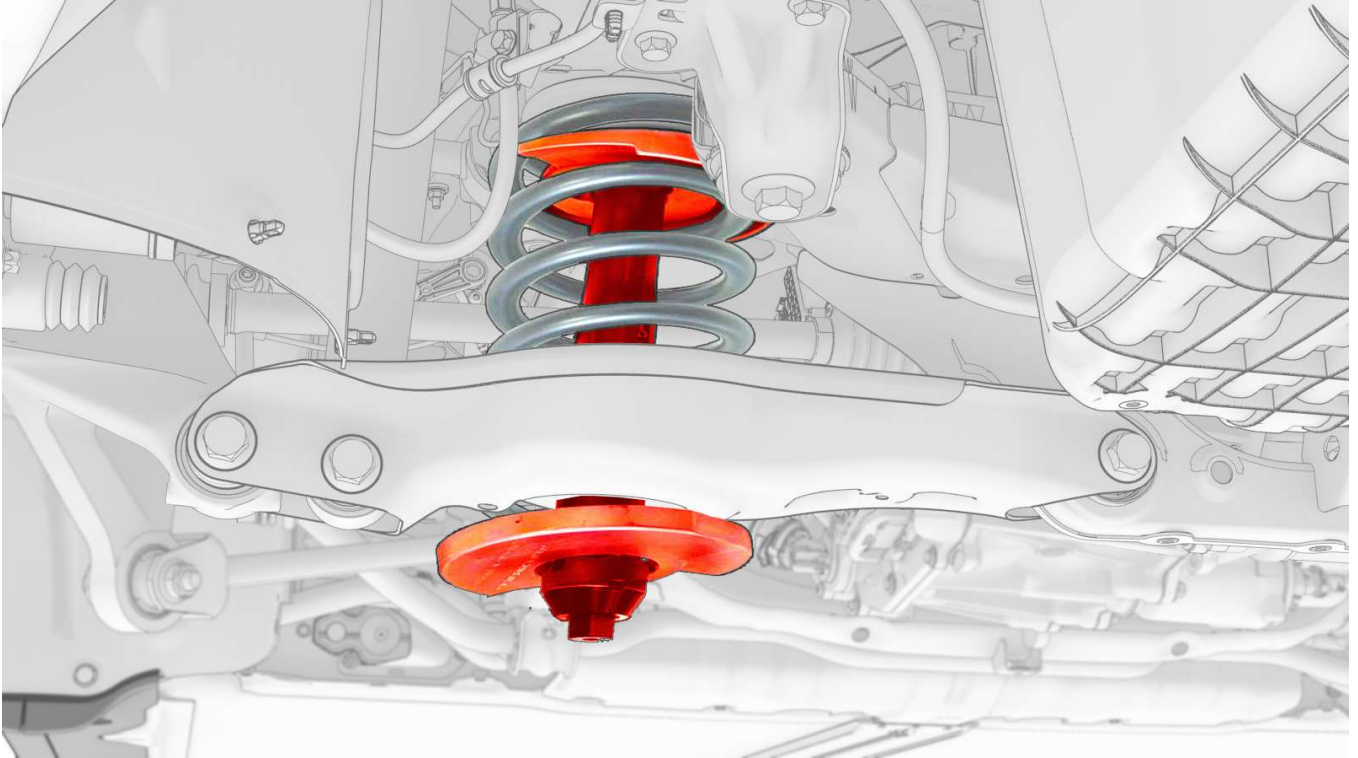
Remove

1. Raise and support the vehicle on a 2 post lift. See [Raise Vehicle - 2 Post Lift](#).
2. Loosen the lug nuts on the LH rear wheel.

3. Remove the mid aero shield panel. See [Panel - Aero Shield - Mid \(Remove and Replace\)](#).
4. Remove the LH rear suspension cover. See [Cover - Rear Suspension - LH \(Remove and Replace\)](#).
5. Remove the LH rear wheel. See [Wheel \(Remove and Install\)](#).
6. Install a spring compressor onto the LH rear coil spring.

Tip: Use of the following tool(s) is recommended:

- Gedore Spring Compressor



7. Position a support stand underneath the LH rear suspension.



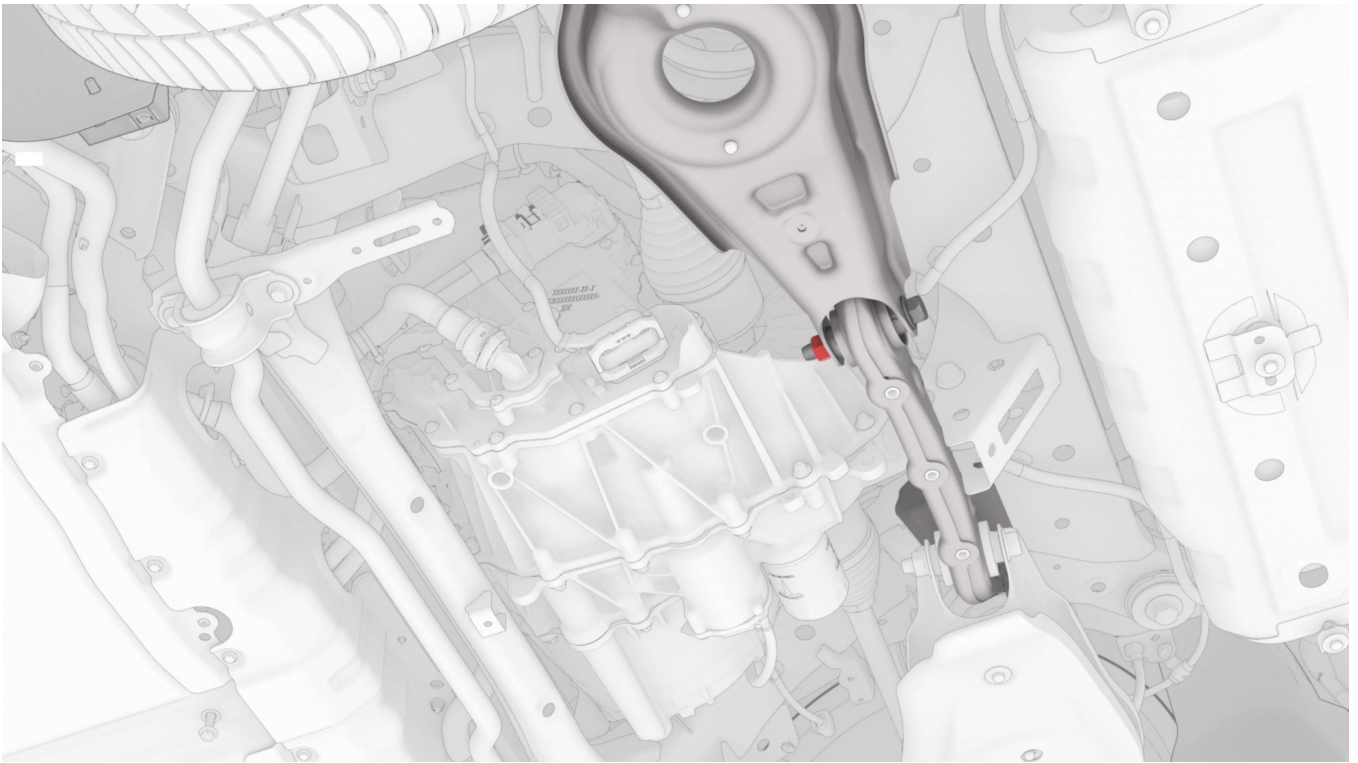
8. Break the nut loose that attaches the LH rear lower aft link to the subframe.



Note

Use of the following tool(s) is recommended:

- 21 mm socket
- 21 mm combination wrench



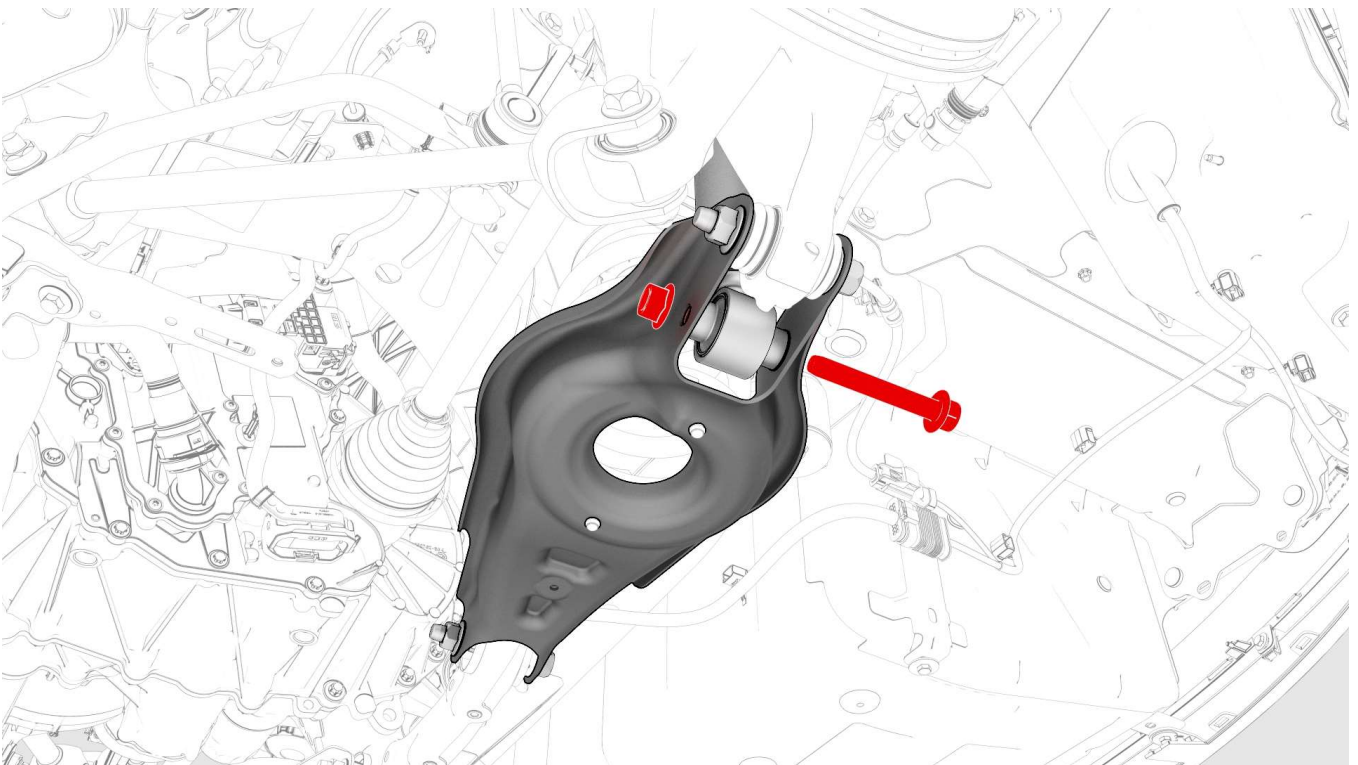
9. Remove the bolt and nut that attach the rear damper to the LH rear lower aft link.



Note

Use of the following tool(s) is recommended:

- 21 mm socket
- 21 mm combination wrench

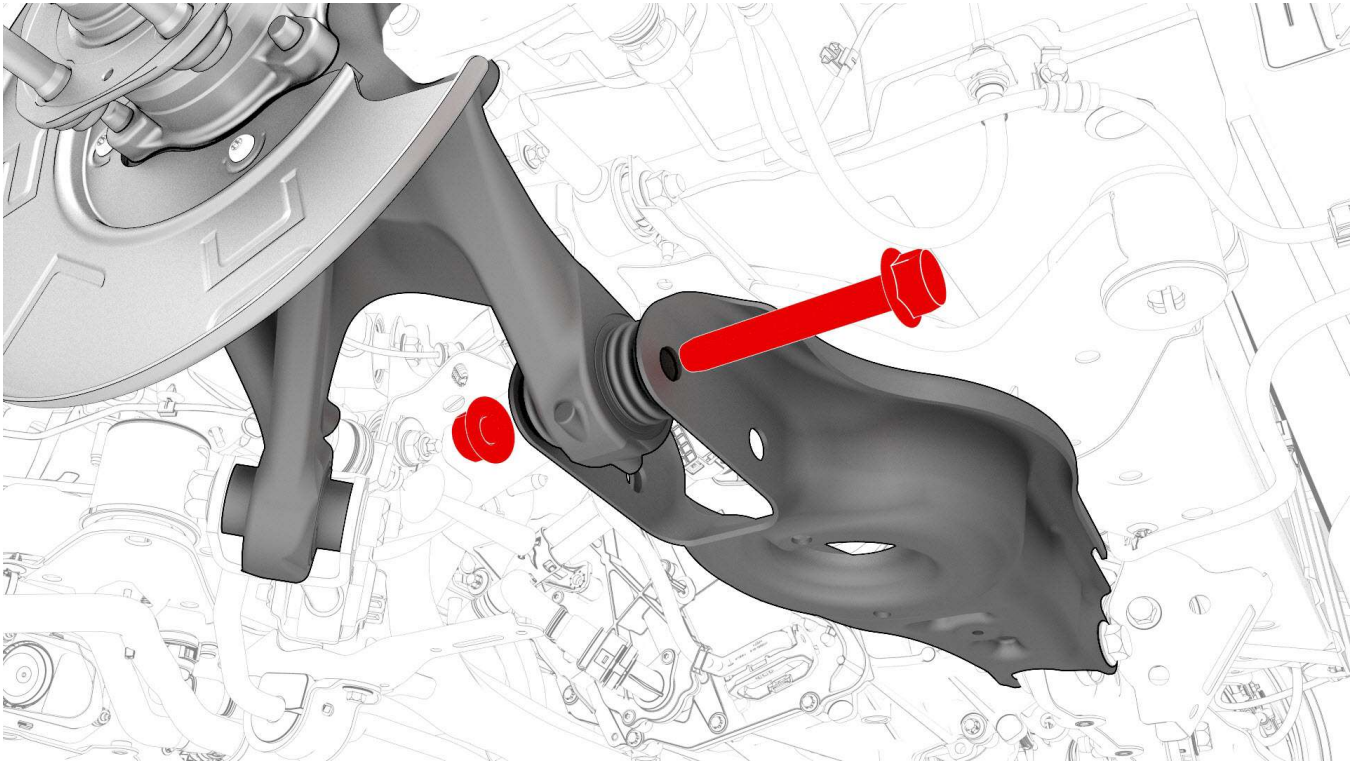


10. Remove the bolt and nut that attach the LH rear lower aft link to the knuckle.

**Note**

Use of the following tool(s) is recommended:

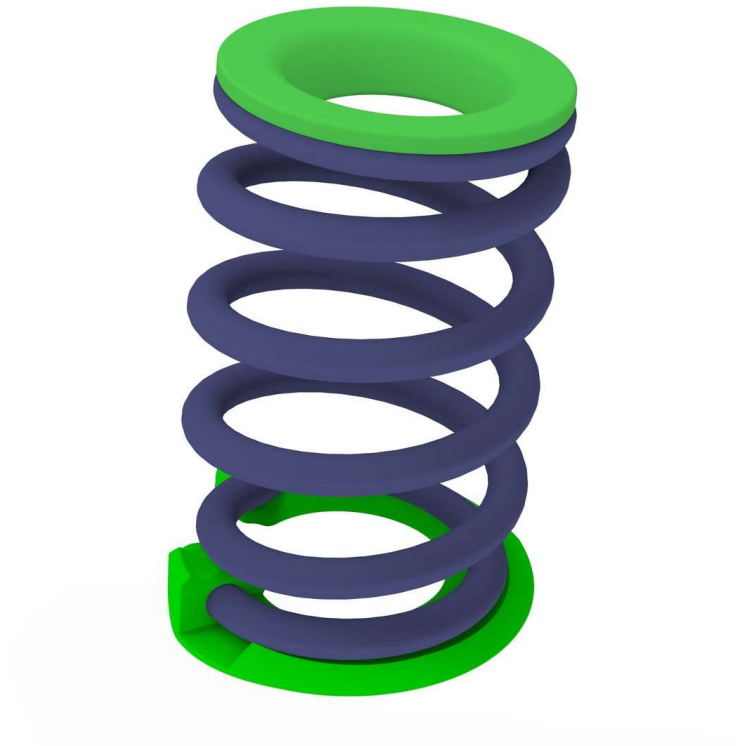
- 21 mm socket
- 21 mm combination wrench



- 11.** With assistance, hold the LH rear suspension spring while slowly lowering the support stand to release the LH rear lower aft link from the knuckle.
- 12.** Remove the LH rear suspension spring from the vehicle.
- 13.** Remove the spring compressor from the LH rear suspension spring.

**Warning**

Be careful while unloading the spring. Hold the spring horizontally and facing away from you.



Install

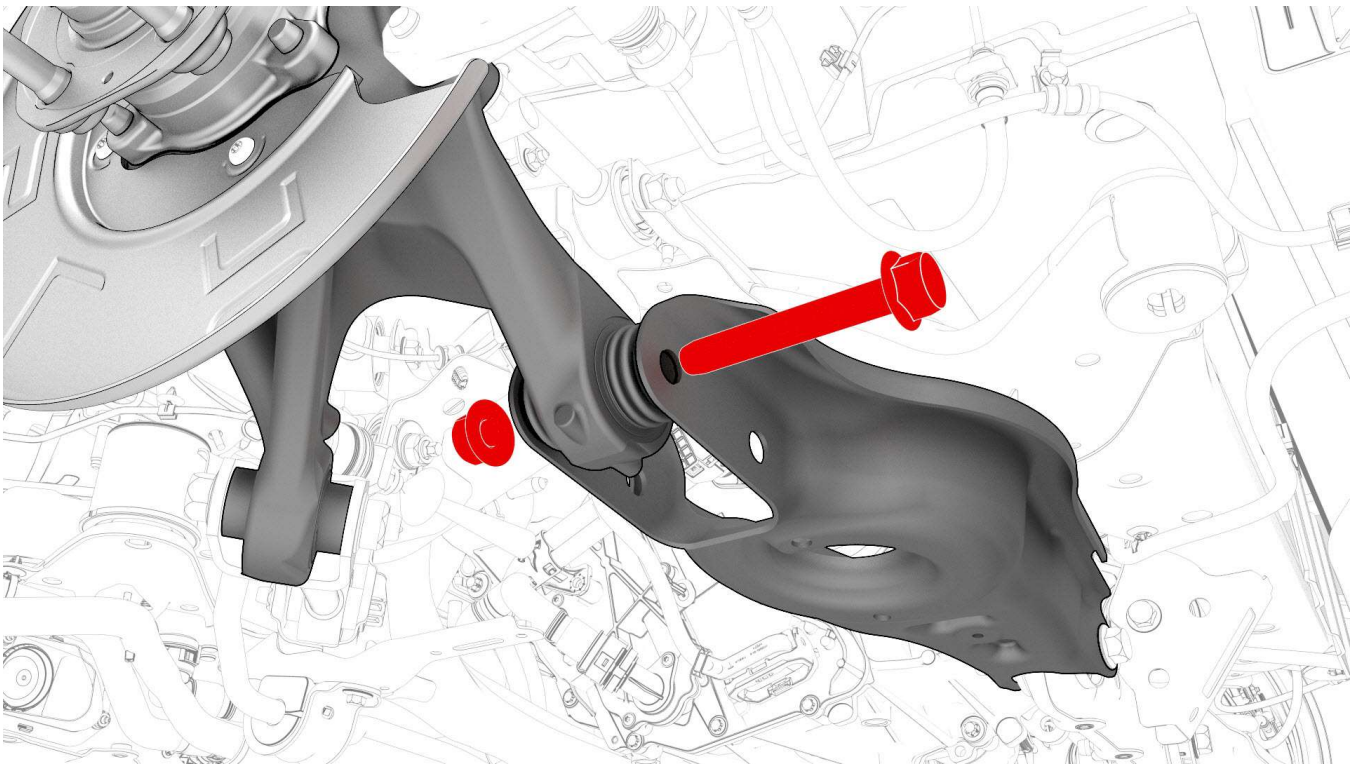
1. Install the spring compressor onto the LH rear coil spring.
2. Install the new LH rear suspension spring into position while raising the support stand until the LH lower rear control arm is supported.



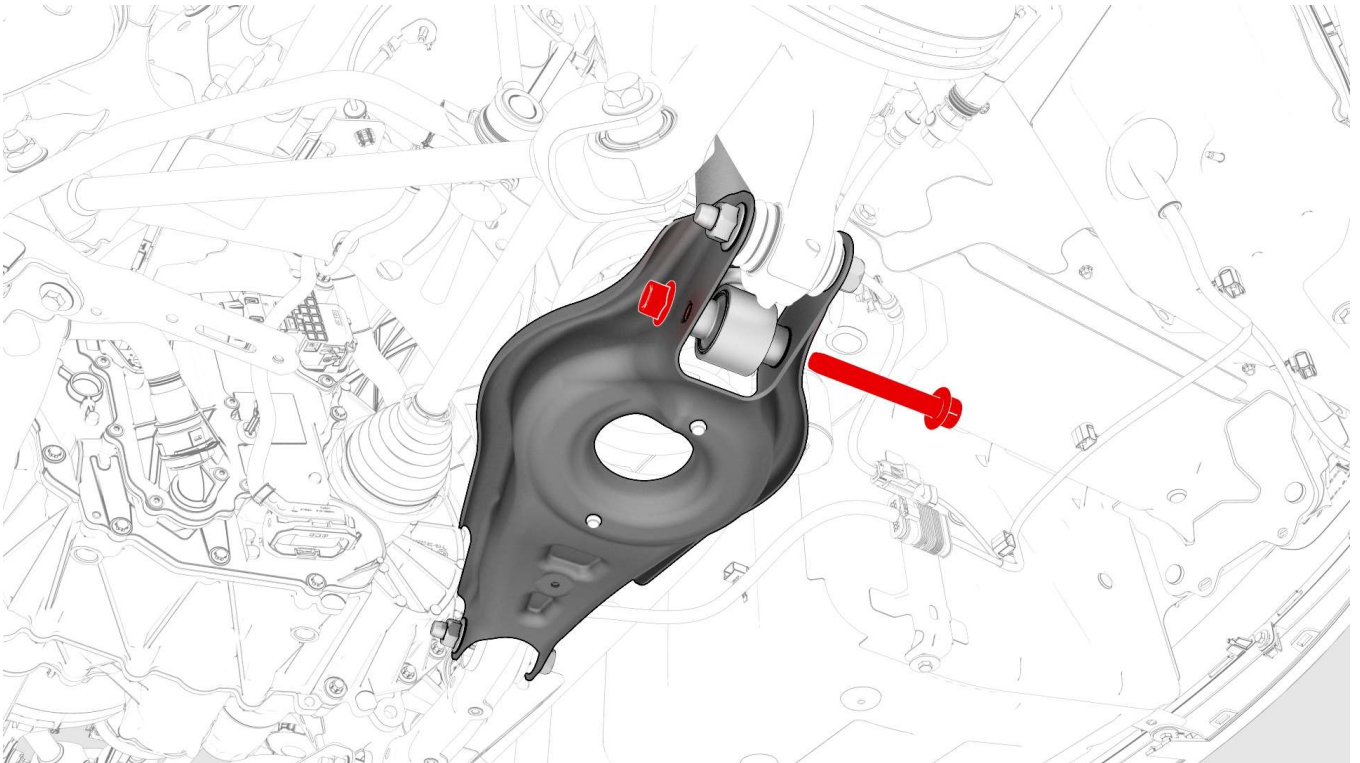
Note

The LH rear suspension spring might need to be compressed further until the LH lower rear control arm and knuckle holes align.

3. Hand-tighten the bolt and nut that attach the LH rear lower aft link to the knuckle.



4. Hand-tighten the bolt and nut that attach the rear damper to the LH rear lower aft link.



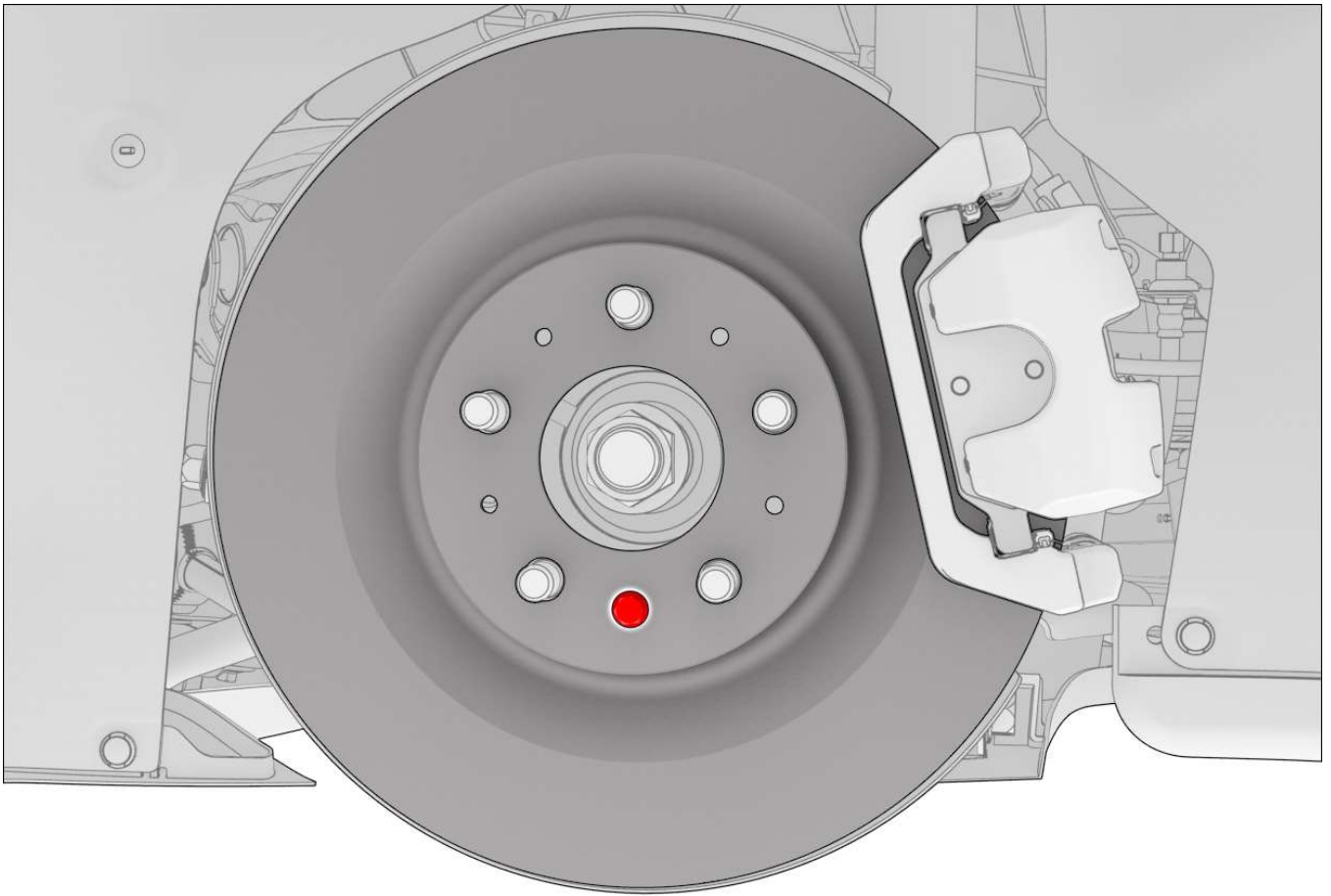
5. Remove the bolt that attaches the brake rotor to the hub.



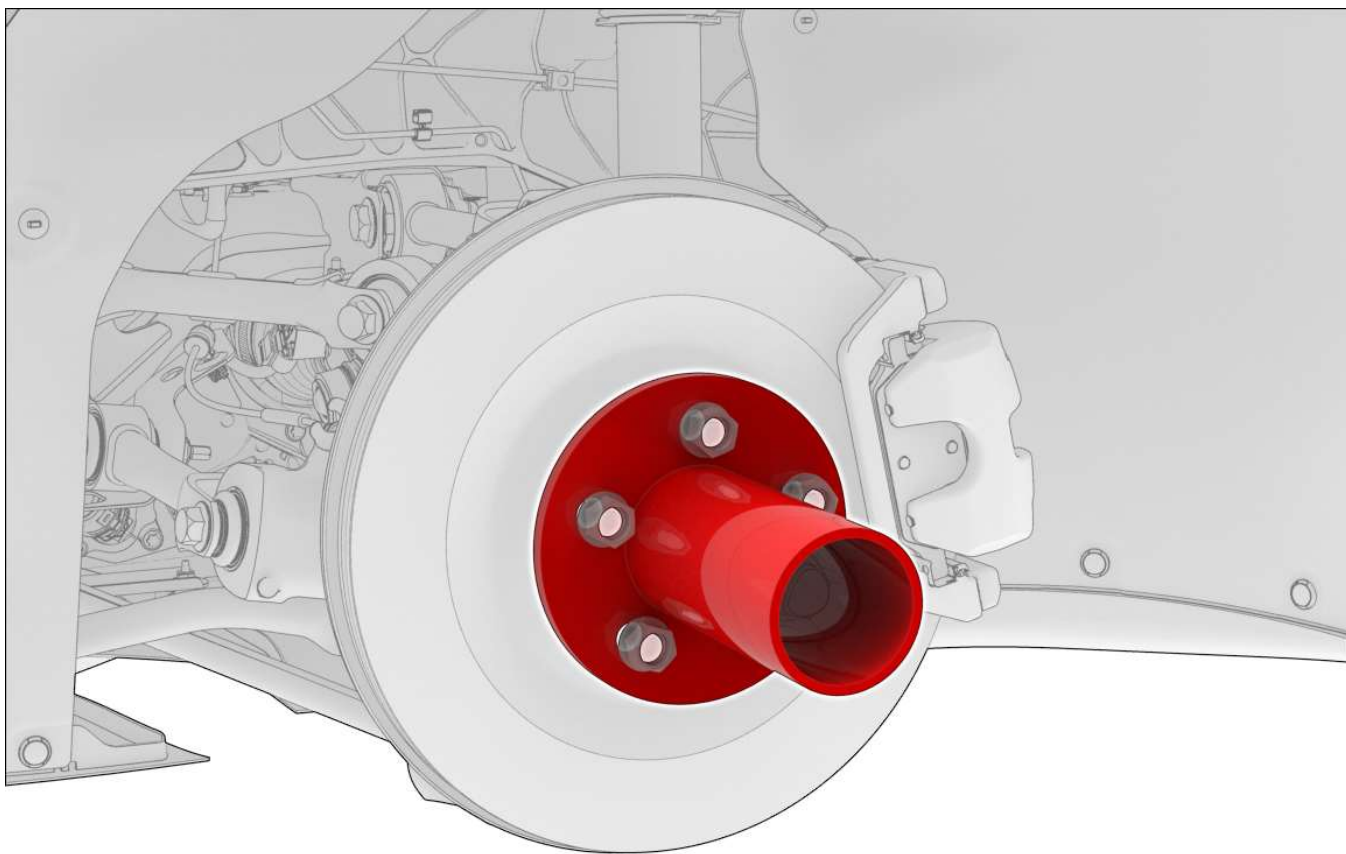
Note

Use of the following tool(s) is recommended:

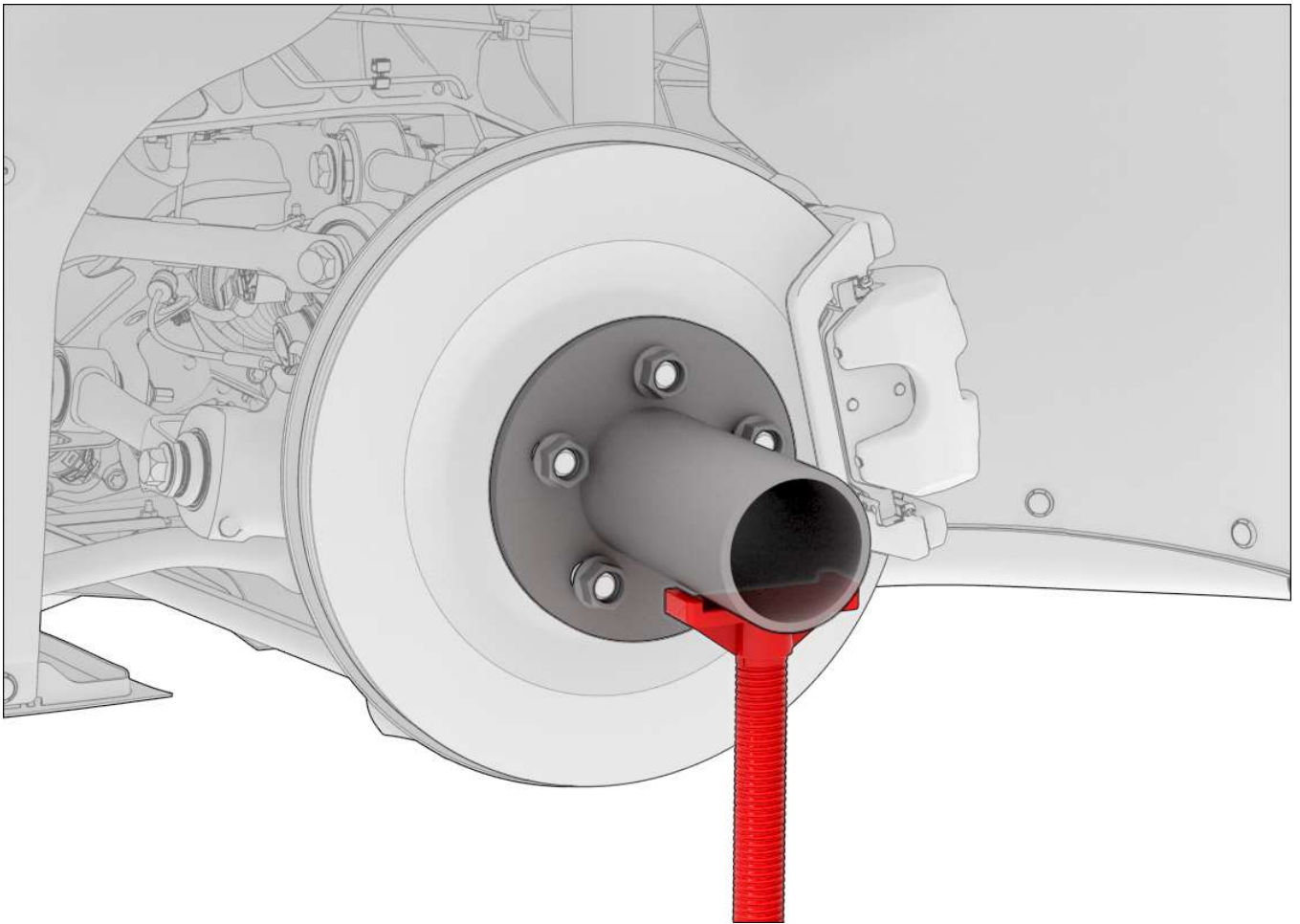
- 10 mm socket
- 2 in extension



6. Install the hub jack adapter onto the LH rear hub and hand-tighten the lug nuts.



7. Use an underhoist stand to support the hub jack adapter.



8. Locate the rear ride height torque tool insertion point in the subframe, and then insert the rear ride height torque gauge to verify that the rear suspension is set to ride height specifications. Adjust the support stand or spring compressor tool, if necessary.



Note

The suspension is at the simulated ride height when the top of the tool touches the subframe and the lower part of the tool interfaces with the lower control arm.

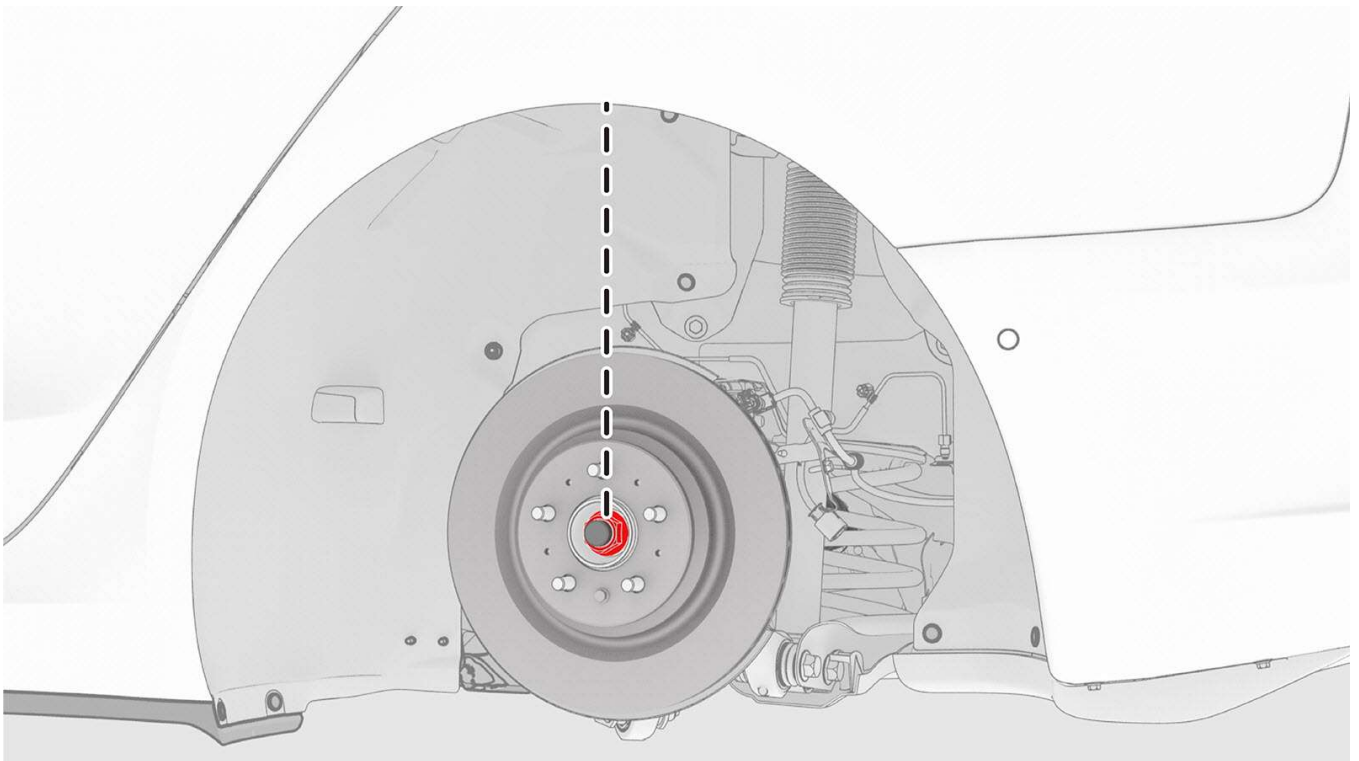
Tip: Use of the following tool(s) is recommended:

- 1137855-00-A TOOL, REAR RIDE HEIGHT TORQUE, MODEL 3





9. Measure the distance between the bottom of the quarter panel to the center of the rear axle to make sure that the rear suspension is set to ride height: The distance should measure 427 mm.



10. Tighten the bolt that attaches the LH rear lower aft link to the subframe. Mark the bolt with a paint pen after the bolt is tighten.



Torque 115 Nm



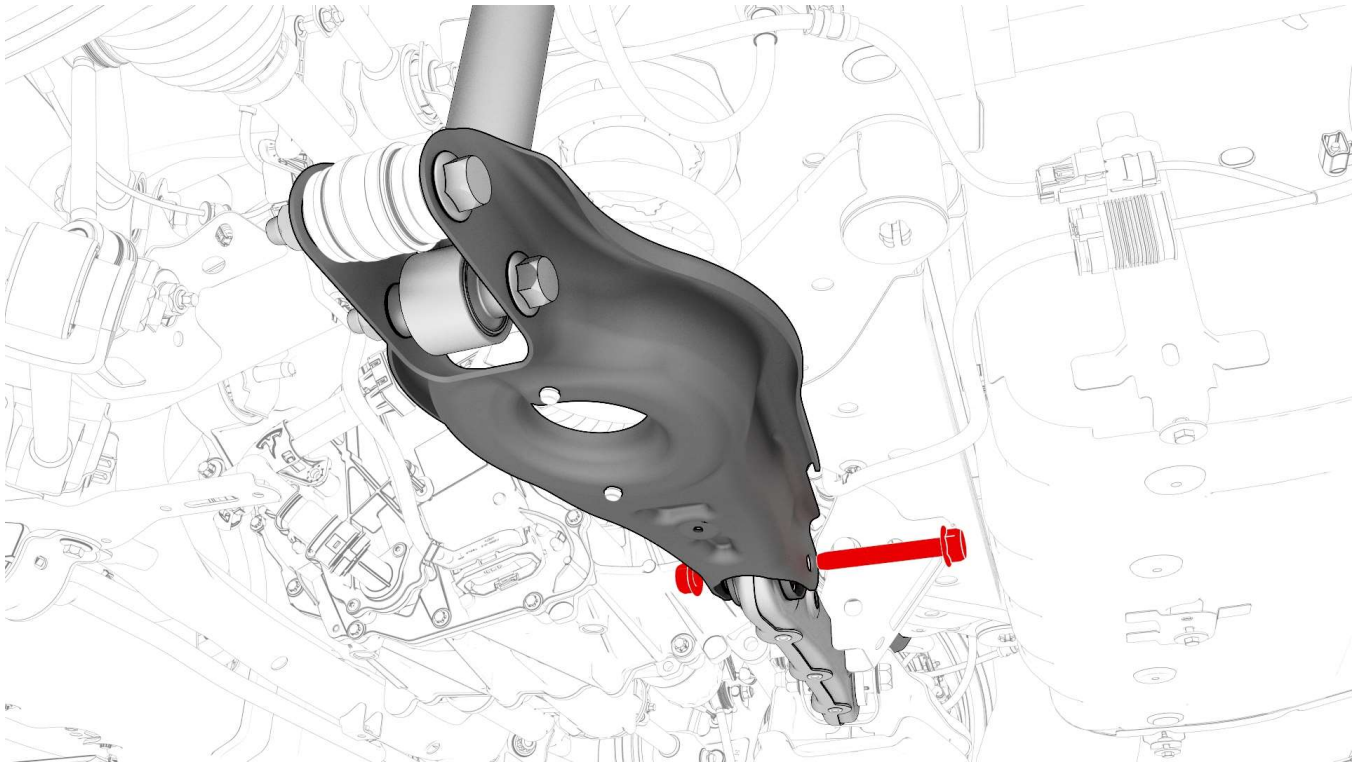
Torque 115 Nm



Note

Use of the following tool(s) is recommended:

- 21 mm socket
- 21 mm combination wrench



11. Tighten the bolt that attaches the LH rear lower aft link to the knuckle. Mark the bolt with a paint pen after the bolt is tighten.



Torque 115 Nm



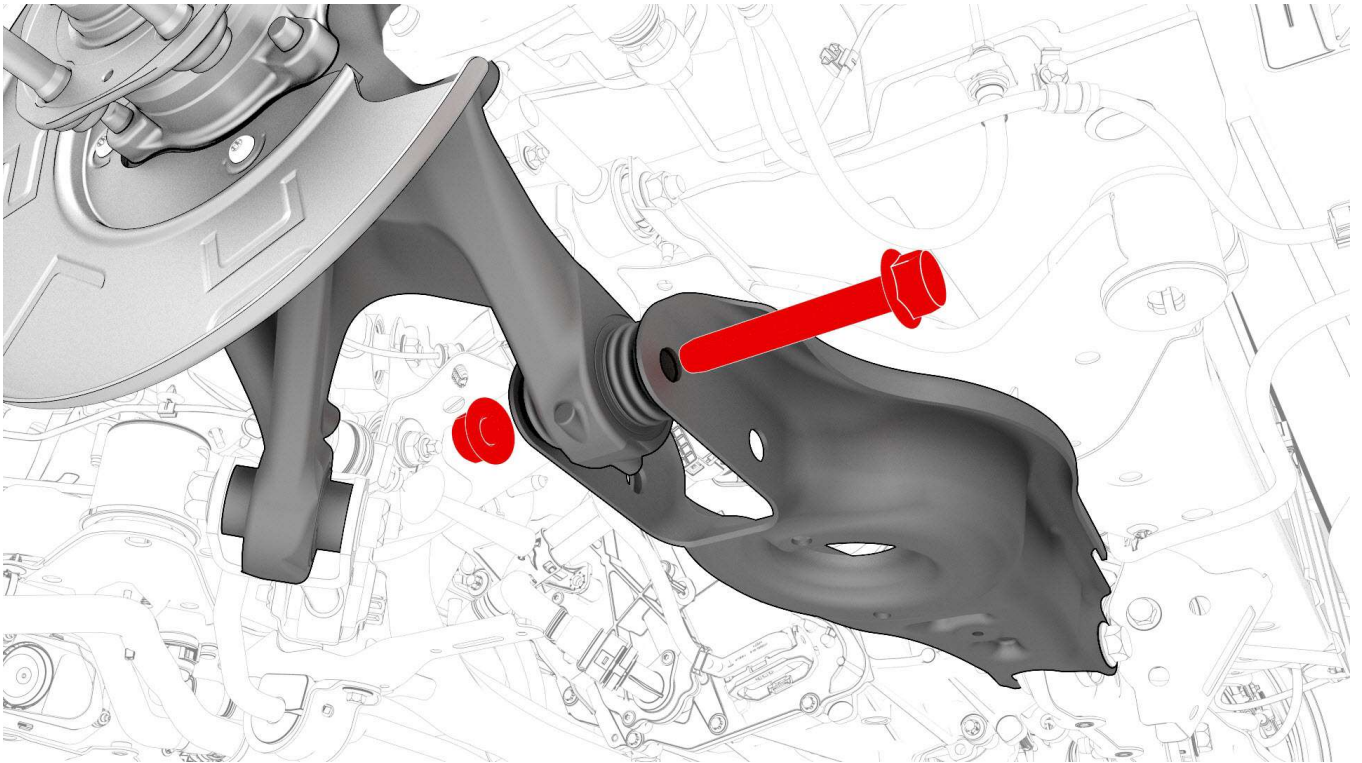
Torque 115 Nm



Note

Use of the following tool(s) is recommended:

- 21 mm socket
- 21 mm combination wrench



12. Tighten the bolt and nut that attach the rear damper to the LH rear lower aft link. Mark the bolt with a paint pen after the bolt is tighten.



Torque 115 Nm



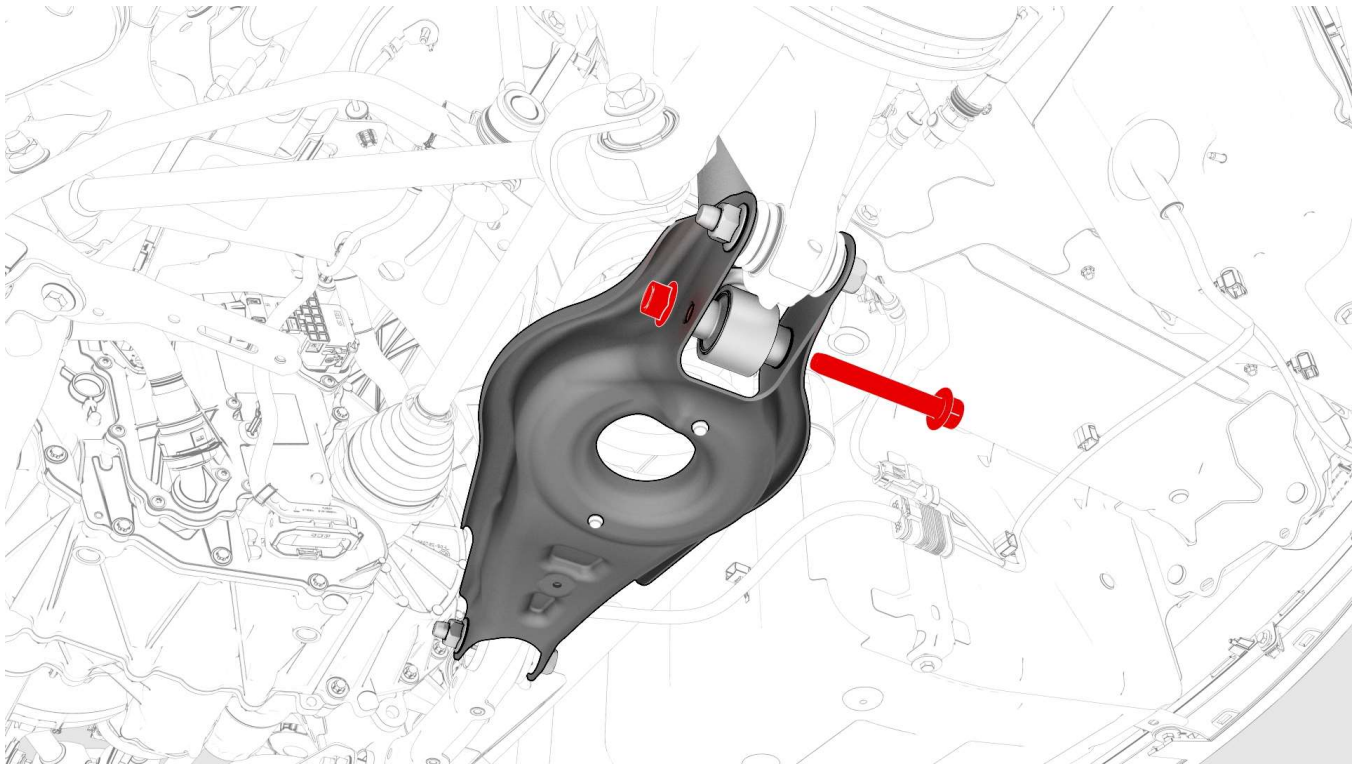
Torque 115 Nm



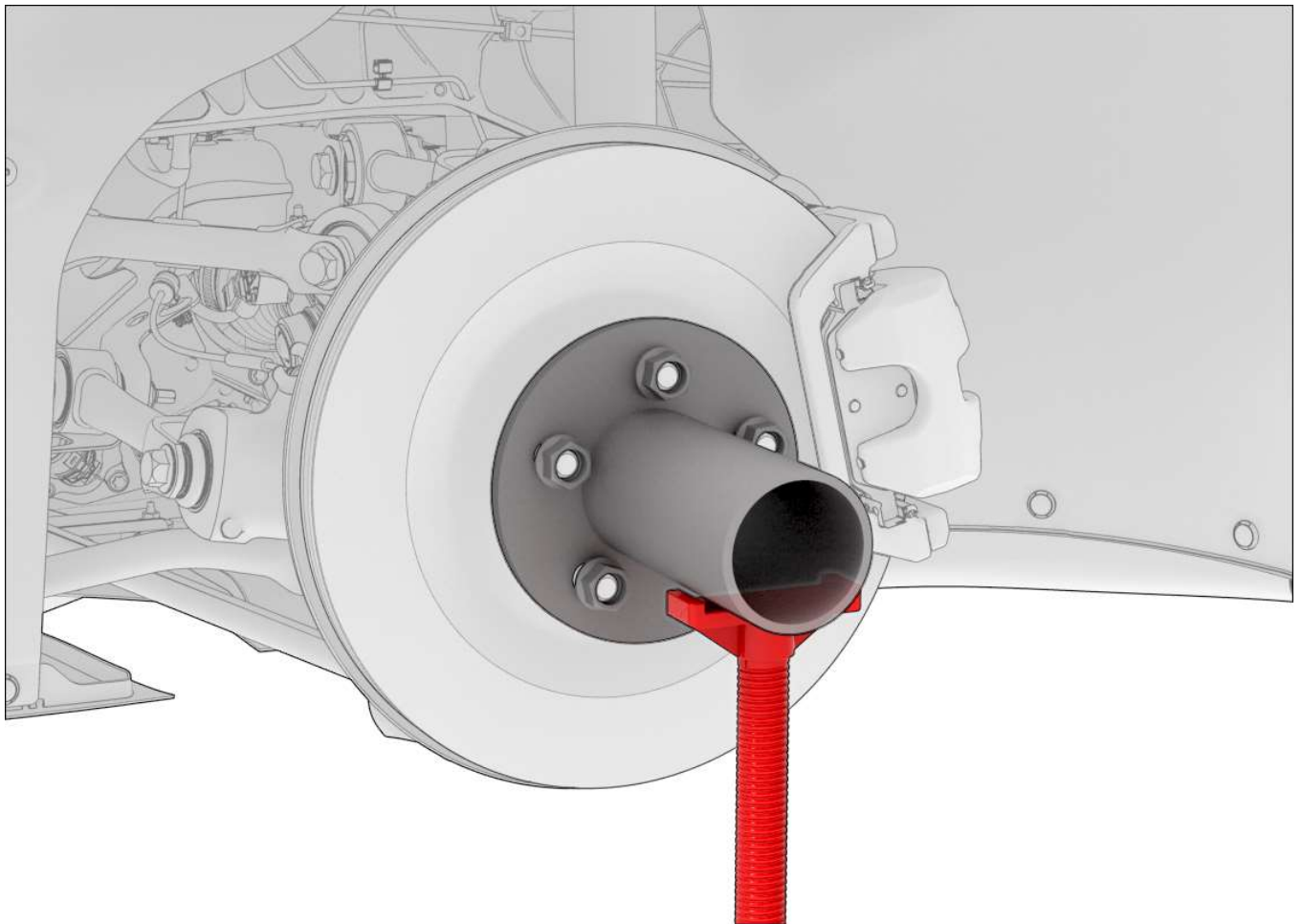
Note

Use of the following tool(s) is recommended:

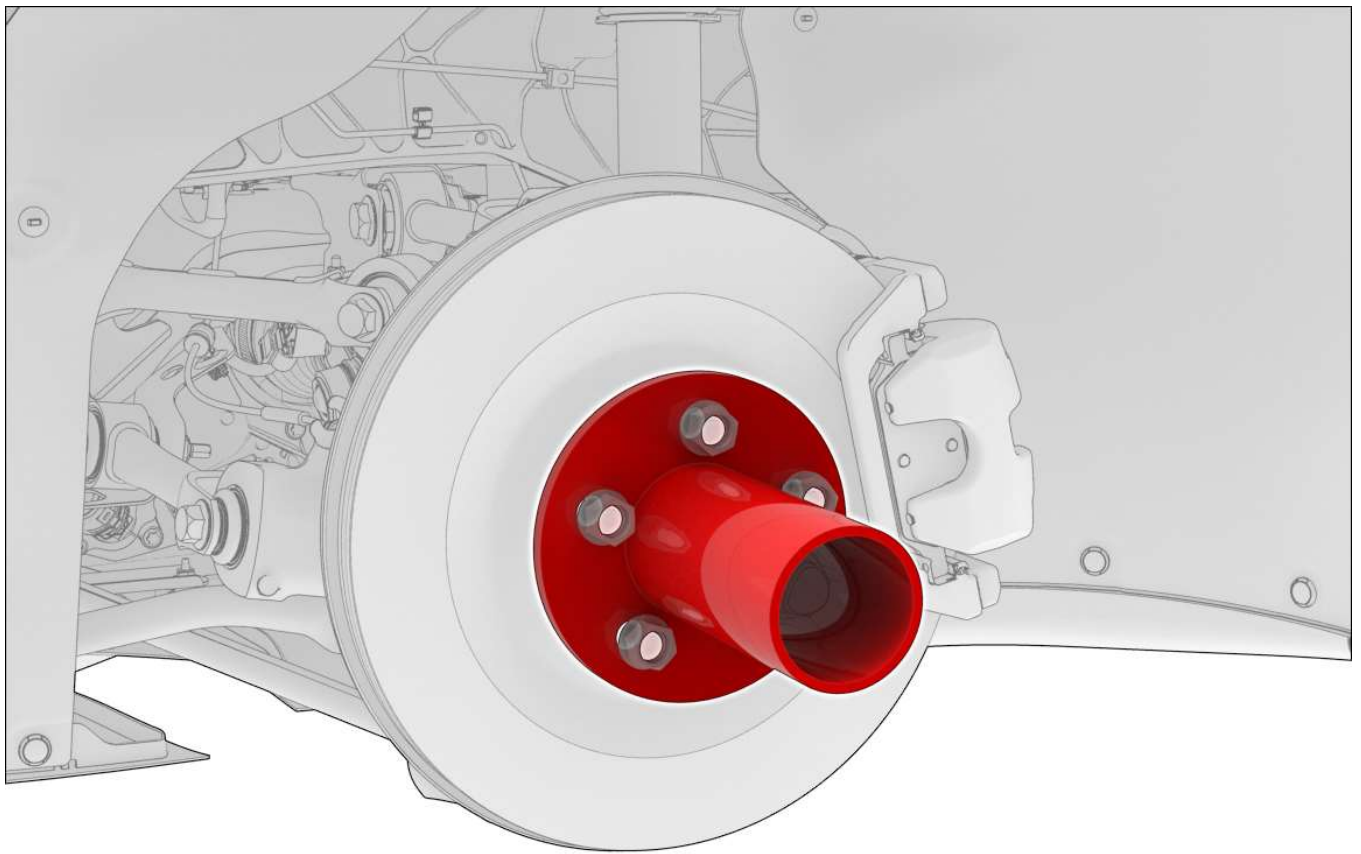
- 21 mm socket
- 21 mm combination wrench



13. Remove the underhoist stand from underneath the LH rear suspension.



14. Remove the lug nuts that attach the hub jack adapter, and then remove the hub jack adapter from the vehicle.



15. Install the bolt that attaches the LH rear brake rotor to the hub.

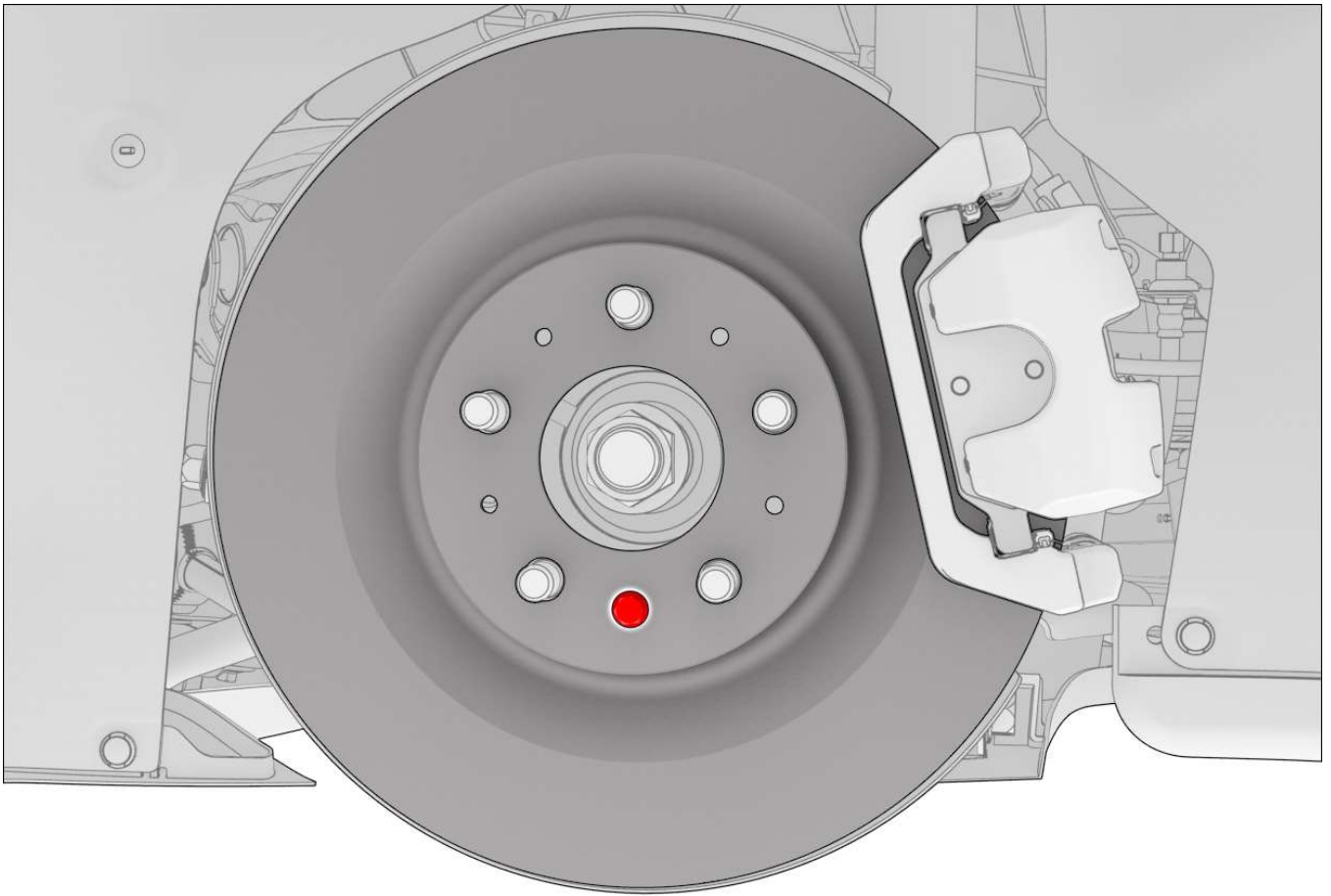
 **Torque 5 Nm**



Note

Use of the following tool(s) is recommended:

- 10 mm socket
- 2 in extension



- 16.** Remove the spring compressor from the LH rear coil spring.
- 17.** Install the LH rear suspension cover. See [Cover - Rear Suspension - LH \(Remove and Replace\)](#).
- 18.** Install the mid aero shield panel. See [Panel - Aero Shield - Mid \(Remove and Replace\)](#).
- 19.** Install the LH rear wheel. See [Wheel \(Remove and Install\)](#).
- 20.** Check the vehicle alignment, and adjust if necessary. See [Four Wheel Alignment \(Check\)](#).