

B9 SQ5 Rear Diff Insert Set

The B9 Audi SQ5 uses rubber rear differential mounts which deflect under load, causing the rear end to feel vague and loose, as well as leading to less-than-optimal handling characteristics during on-throttle and off-throttle transitions.

These precision-machined billet aluminum inserts are designed to fill voids in the factory rear differential mounts, and limit differential movement under load without sacrificing ride quality or introducing any perceivable additional noise, vibration, or harshness into the cabin. The result is a more refined, connected driving experience.

Installation Spiciness Rating: HOT

Installation of your 034Motorsport Rear Differential Insert Set is a straightforward process that will take approximately 4 hours to complete.

Supplied Parts:

- (2x) Billet "Rear" inserts
- (1x) Billet "Front" insert

Tools Needed:

- (6x) Pole Jacks (This is not a typo.)
- 21mm Socket
- 18mm Socket
- 16mm Socket
- 13mm Socket
- 10mm Socket
- 18mm Wrench
- T25 Torx bit
- Torque Wrench
- Flathead Screwdriver
- Grease

About This Guide

This Install Guide documents the installation process on a B9 Audi SQ5. There may be minor differences depending on specific vehicle, market, options, etc.

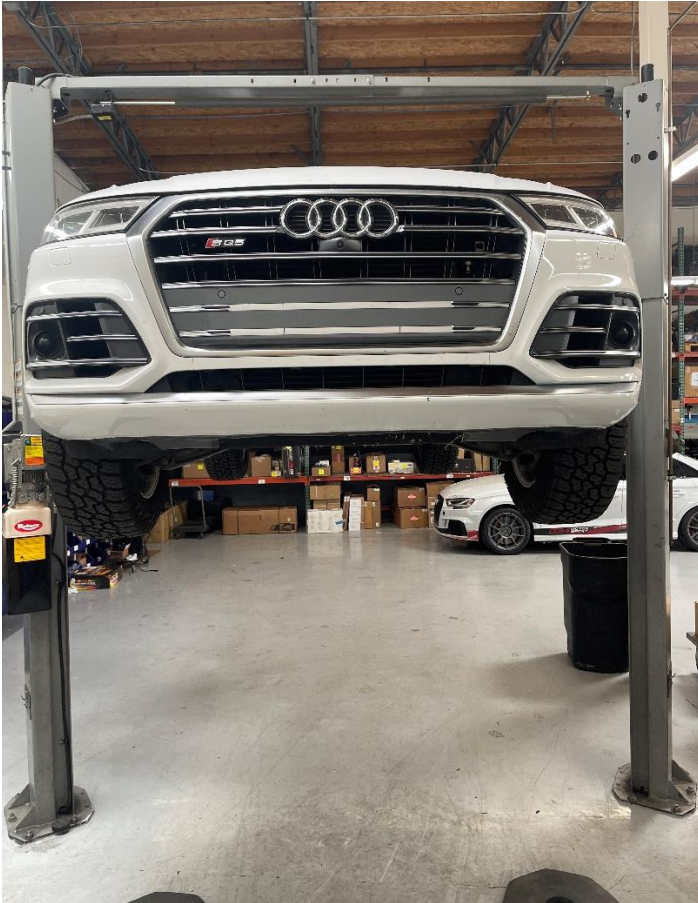
Getting Started

Confirm you have received all the parts included with your purchase by reading the complete guide, if there are missing components,

Install Steps

Step 1

Lift the car to access the rear diff.



Step 2

Disconnect the exhaust valve connector.



Step 3

Place a pole jack under the rear muffler.



Step 4

Using a 13mm socket, remove the bolts securing the exhaust hangers on both sides.

**Step 5**

Use a flathead screwdriver, push the mid-pipe hanger off the rubber bushing.

**Step 6**

Lower the exhaust so it rests on the underbody brace. You can remove the pole jack supporting the exhaust now.

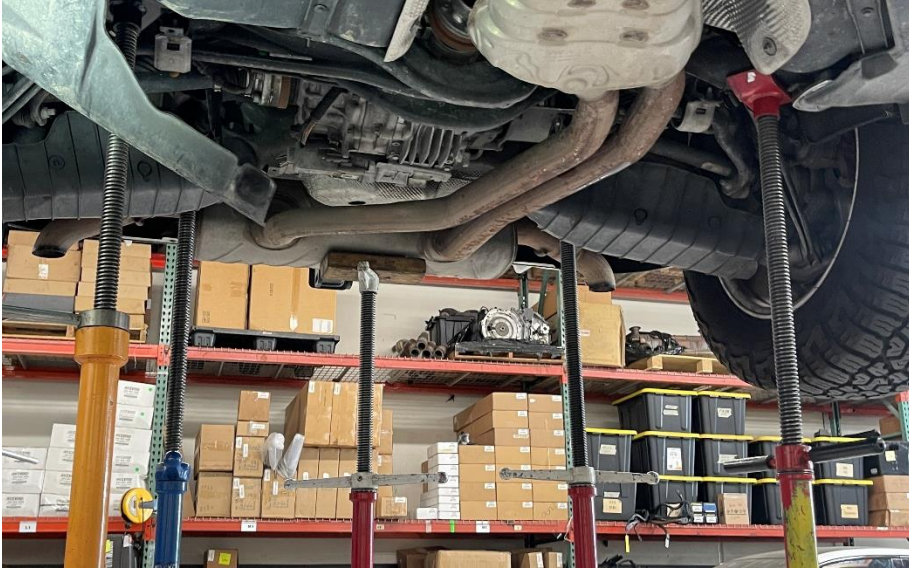
**Step 7**

Using a 10mm wrench and T25 Torx, remove the hardware for the rear pass. underbody tray and fold it out of the way.



Step 8

Put a pole jack at each corner of the rear subframe.

**Step 9**

Place another pole jack under the rear diff.

**Step 10**

Using a 16mm socket and wrench, remove the "front" rear diff hardware.

**Step 11**

Using an 18mm socket, remove the "rear" rear diff hardware.



Step 12

Using an 18mm socket, loosen the "rear" subframe hardware. Leave about 5 threads engaged.



Using an 21mm socket, loosen the "front" subframe hardware. Leave about 5 threads engaged.



Do not remove completely, these will help with support.

Step 13

Unclip the white evap tube from the underbody and move aside to avoid pinching with the rear diff.

**Step 14**

Partially extract the rear diff bolts.



Step 15

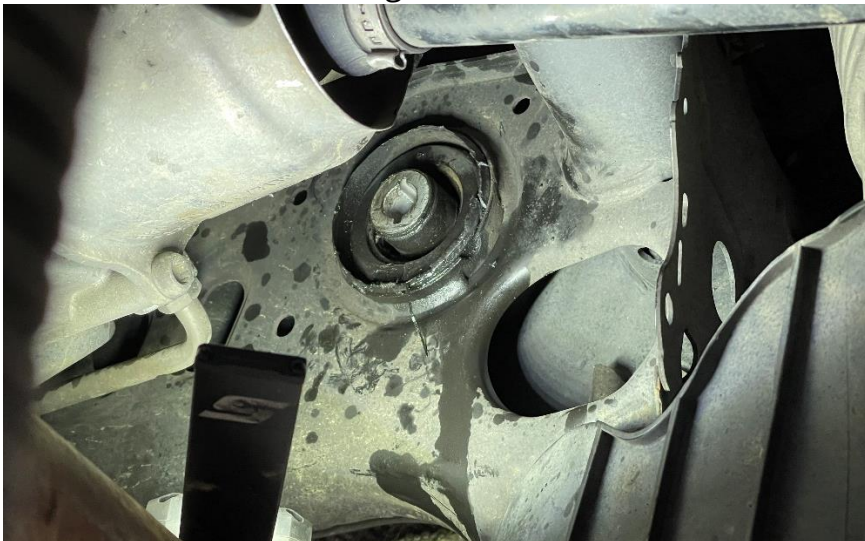
Use another pole jack to support the rear diff.

**Step 16**

Use yet another pole jack to support the front subframe. This will prevent rocking from the next step.

Step 17

Carefully lower the rear subframe to access the two side bushings in the rear.

**Step 18**

Apply some grease to the 034 rear diff inserts.

**Step 19**

Install the inserts into the side bushings of the rear subframe.



Step 20

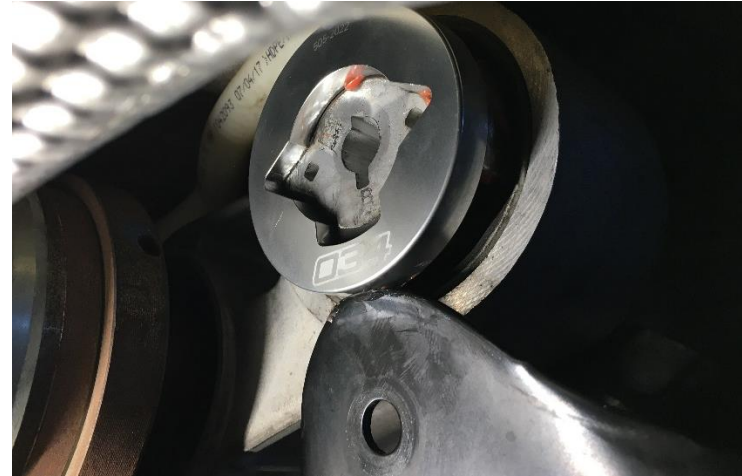
Using the final pole jack, lift the driveshaft flange to raise the front of the rear diff to expose the front bushing.

**Step 21**

Apply some grease the large insert.

Step 22

Install the insert into the front bushing.

**Step 23**

Lower the pole jack from the driveshaft flange.



Step 24

Using an 18mm socket, tighten the rear-most subframe hardware. Torque to **90Nm + 180°**



Using an 21mm socket, loosen the "front" subframe hardware. Torque to **130Nm + 180°**

**Step 25**

Lower and remove all the pole jacks supporting both the rear and front subframes.

Step 26

Lower the pole jack supporting the rear diff so that the upper subframe bushings are aligned with the rear diff and install the hardware. Torque the rear hardware to **90Nm + 180°**



Torque the front hardware to **50Nm + 180°**

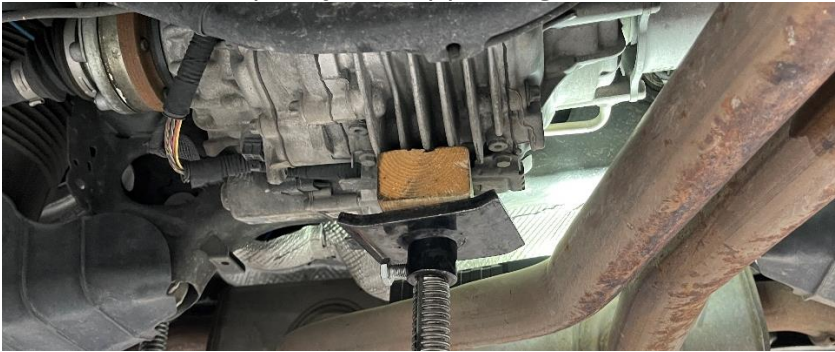


Step 27

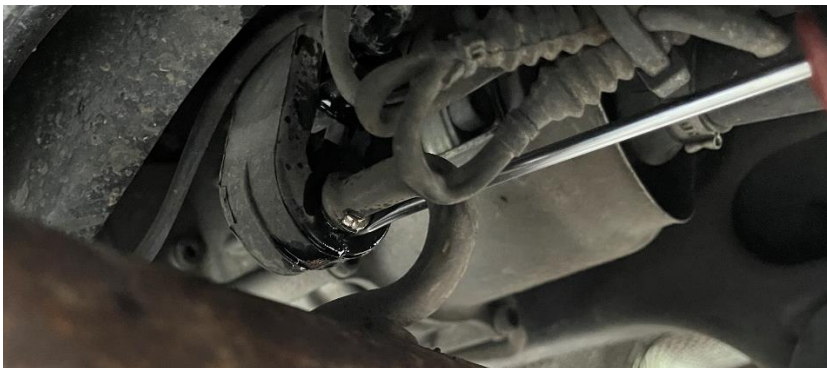
Clip the evap tube back into place.

**Step 28**

Lower the pole jack supporting the rear diff.

**Step 29**

Push the bushing onto the hanger.

**Step 30**

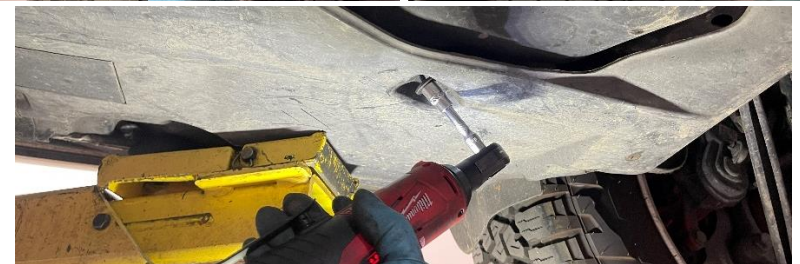
Using a 13mm socket, reinstall the bolts securing the exhaust hangers on both sides.

**Step 31**

Reconnect the exhaust valve connector.

Step 32

Using a 10mm wrench and T25 Torx, reinstall the hardware for the rear pass. underbody tray.



Step 33

Lower the car back down and you're done. Enjoy!

