

# Differential

The C7 S6/S7 comes standard with an open rear differential and Audi's quattro all-wheel-drive system, but models equipped with the optional sport differential add torque vectoring, allowing active power distribution between the rear wheels for sharper cornering and improved handling dynamics under throttle.

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# Modifications

# Sport Differential Removal Guide

Ensure there are no current sport diff errors/codes before proceeding!

1. Go into the **Instruments Module - Coding** - and uncheck "Sport Differential Installed".
2. Turn off the car, then turn it back on and verify that there are no dash errors. If there are no errors, proceed to the next step.
3. Go into the **CANBUS Module - Gateway List** - and remove **AWD**.
4. Restart the car. If there are no dash errors, continue to the next step.
5. Go to the rear of the car and remove the fuse for the **Sport Differential** (fuse location may vary depending on your vehicle, so check the fuse diagrams). Verify that no errors appear on the dash. If there are no errors, you're ready to remove the differential wiring and/or the differential itself.

DO **NOT** remove the AWD module or unplug it!

**Original Content:** [TGK Motorsport](#)

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# TGK Motorsport Subframe Inserts

One of the easiest and most underrated mods for tightening up the handling on the C7 S6 and S7 is a set of subframe inserts. The factory mounts have a bit of play that you really start to notice once you push the car through corners or launch hard. I installed the TGK Motorsport Subframe Inserts on my S7 and immediately felt the difference—less rear-end wiggle, better throttle response during shifts, and overall more connected driving feel. They're CNC machined, install without dropping the subframe, and are perfect for daily-driven cars or full builds alike.

[\*\*TGK Motorsport Store Page\*\*](#)

[https://www.youtube.com/embed/gUmr9\\_H6uac](https://www.youtube.com/embed/gUmr9_H6uac)