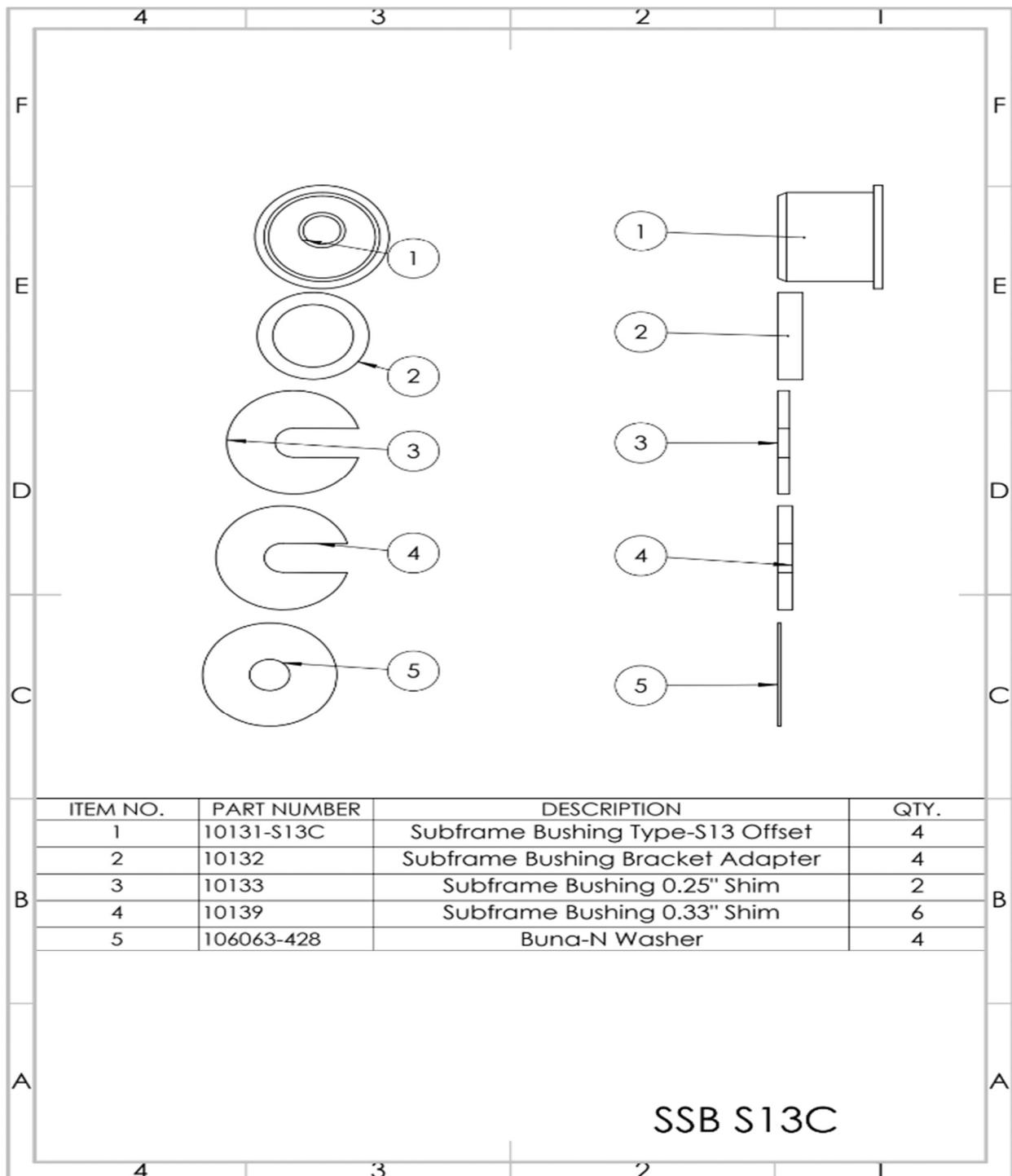
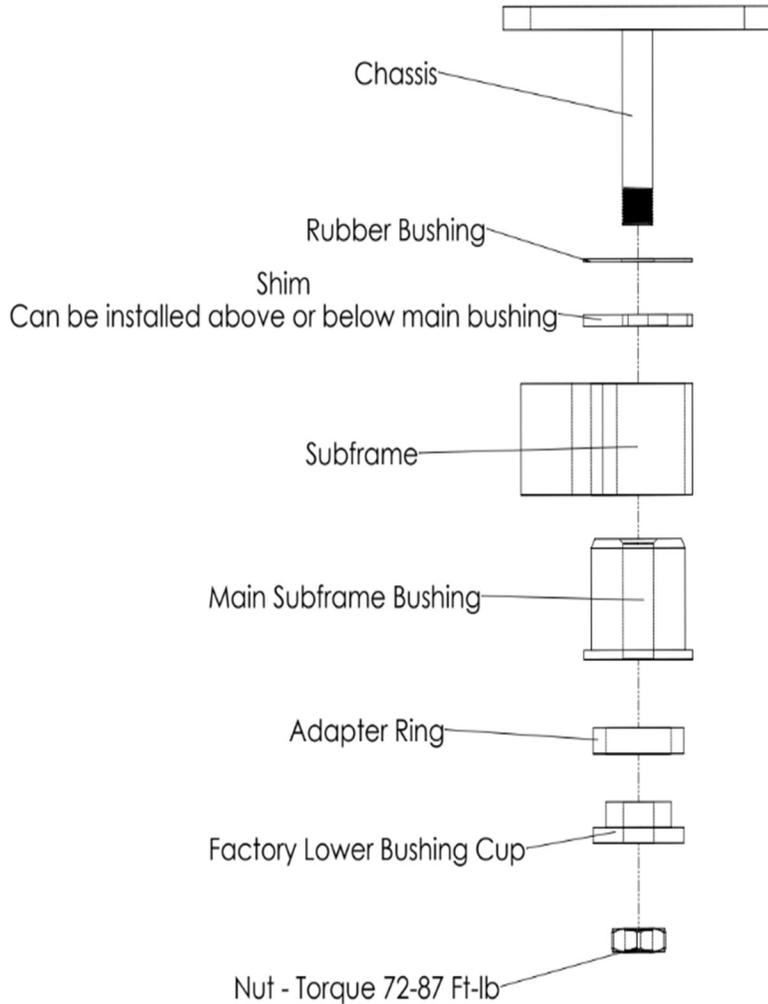


Solid Subframe Conversion Bushings Installation Instructions SPL SSB S13C





Remove subframe and OEM subframe bushings. The OEM subframe bushings can either be pressed out or cut out. The entire OEM bushing must be removed, including all the outer metal "shells" (race). When the OEM bushing is completely removed, there should just be 1 ring of steel left that is part of the subframe itself.

Press in the main bushing from the bottom of the subframe. **See next page for proper orientation of bushing.**

To "raise" the subframe by 1/2", both shims should be installed below the subframe.

To "raise" the subframe by 1/4", one shim should be installed above the

subframe and one shim installed below the subframe.

To place the subframe at the OEM location (Formula D legal), place two .33" thick shims in the front and one .33" and one .25" thick shim above the subframe in the rear.

To "raise" the subframe by .33", place one .33" shim above and one below on the front and place one .33" shim below and one .25" thick shim above in the rear.

To "raise" the subframe by .66" in the front and .58" in the rear place both .33" shims below the front of the subframe and one .33" and one .25" shim below the rear of the subframe.

Optional: The supplied rubber isolators can be installed between the chassis and the subframe bushing to help dampen some noise.

Bushing installation orientation

For fitting S14 subframe onto S13 chassis, bushing holes should be closer to center of subframe.

For fitting S13 subframe onto S14 chassis, bushings holes should be closer to outside of subframe.

Install bushings with scribe mark lined up between left and right bushings, as shown:



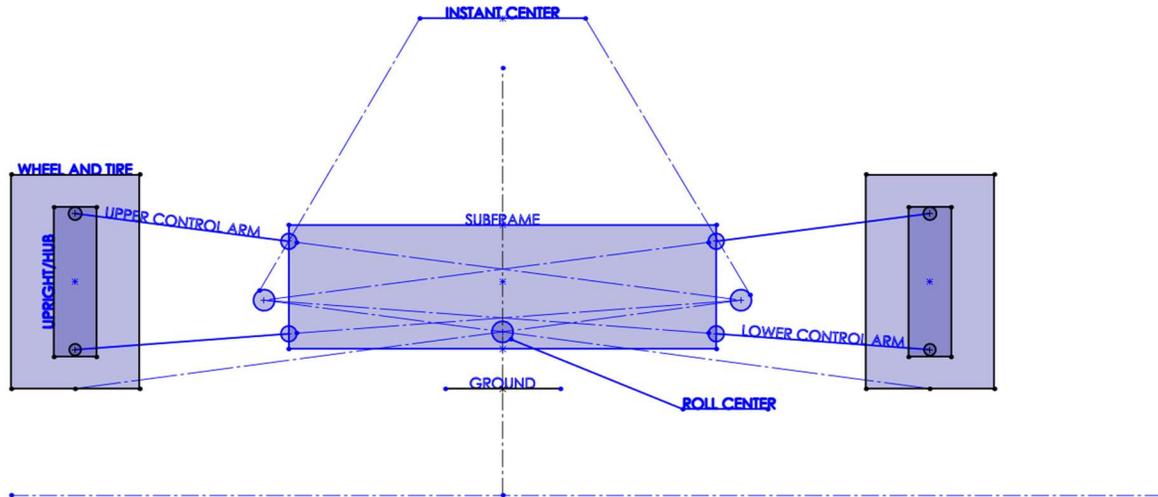
Raising the subframe and how it effects roll center and anti-squat

The following 2 pages explain the effect of raising the subframe on roll center and anti-squat. For a car that is lowered, as a general rule, raising the subframe will improve the roll center but reduce traction. Feel free to experiment with different subframe positions to find the one that best suits your driving style!

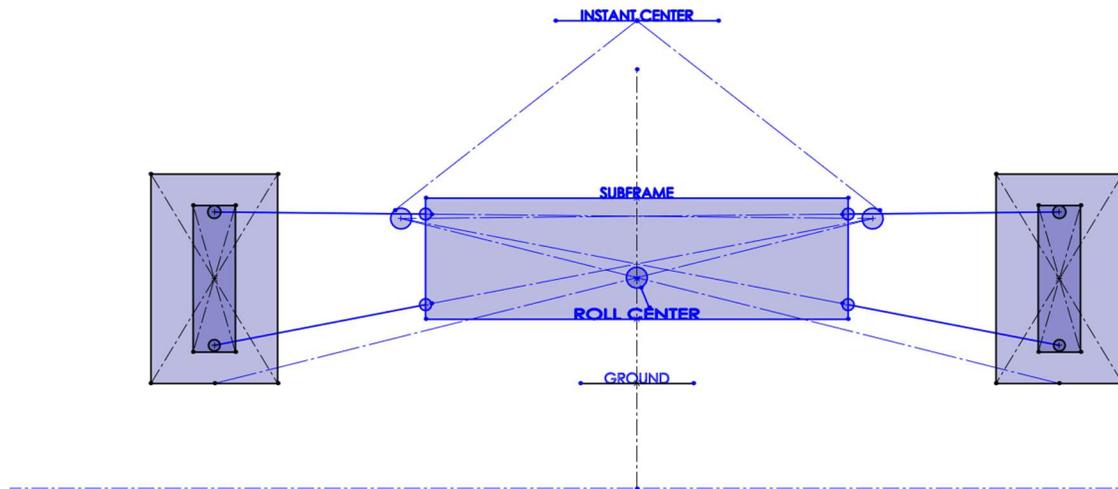
Note: Raising the subframe will alter your rear alignment.

Roll center adjustment and ride height adjustment by raising subframe

The following diagram depicts the subframe at the OEM location, with the stock ride height and roll center. Notice the gap between the subframe and the chassis, where the shims would sit.



The following diagram shows the subframe raised closer towards the chassis (no more gap between subframe and chassis), and the ride height lowered the same amount. The roll center position is un-changed.

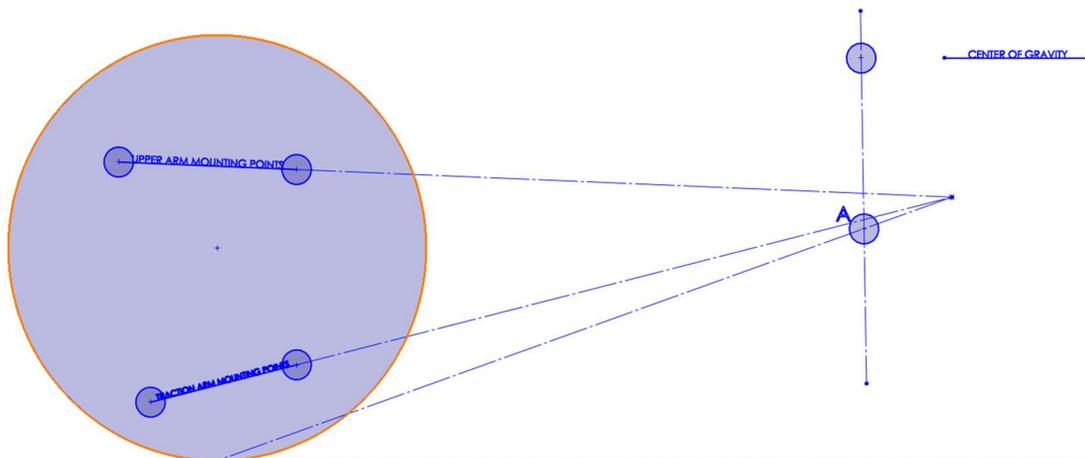


If we are to compare the 2 subframe positions with the car at the same ride height in both cases, raising the subframe will raise the roll center. **Note:** Raising the subframe will not significantly change ride height, this is because the ride height is determined by the shock/spring assembly as it sits between the chassis and the knuckle.

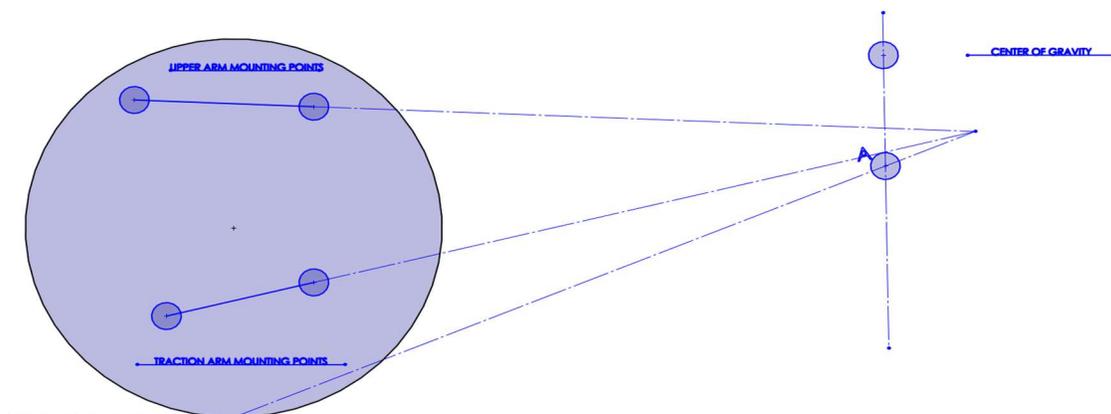
Raising subframe and effect on anti-squat

The ratio between the height from the ground to point "A", and the height from the ground to CG, is the amount of anti-squat. As a general rule, more anti-squat keeps the rear end from squatting under hard acceleration, and reduces traction.

The following diagram depicts the subframe at the OEM location, with the stock ride height and anti-squat. Notice the gap between the subframe and the chassis, where the shims would sit.



The following diagram shows what happens when you raise the subframe closer to the chassis. For this example, we are comparing what happens to the anti-squat when the ride height remains the same. When the subframe is raised, the rear "instant center" is raised as well, that moves point A up and increases anti-squat.



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