

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Front Shock Absorber Lower Spring Seat Adjustment (Z51 without E60)

Shock Spring Seat Adjustment

The front shocks, on vehicles without hydraulic front lift (E60) have threaded spring seats that allow adjustment of the preload on the coil springs. The vehicle corner weights can be adjusted for track use. If the vehicle trim height is modified, it should be returned to normal trim height before street use.

The spring seat can be adjusted approximately 20 mm (0.79 in) up or down from the nominal position. Each complete turn of the spring seat will change the vehicle height approximately 1.5 mm (0.06 in). When adjusting the seat to the upper limit, lift the dust boot and ensure the seat does not thread off the center support tube (stop adjustment when threads are no longer visible). When adjusting the seat to the lower limit, leave approximately 10 mm (0.39 in) of thread visible for the lower lock nut to have full thread engagement.

The following procedure can be complex and should only be performed by trained personnel.

1. Raise and support the vehicle. Lifting and Jacking the Vehicle
2. Remove the front tire and wheel assembly. Tire and Wheel Removal and Installation
3. Click here for full size
4. Using a suitable spanner wrench, loosen the front shock absorber lower spring seat lock nut (1).
5. Thread the front shock absorber lower spring seat lock nut (1) downward off of the threads to its resting location on the shoulder of the center support tube.
6. While holding the center support tube holes (2), turn the front shock absorber lower spring seat (3) upward to increase spring preload, or downward to decrease spring preload.
7. Thread the front shock absorber lower spring seat lock nut (1) back on to the center support tube.
8. Using a suitable spanner wrench, torque the front shock absorber lower spring seat lock nut (1) to 25 N-m (18 lb ft)
9. Install the front tire and wheel assembly. Tire and Wheel Removal and Installation
10. Remove the support and lower the vehicle.