



Detroit Speed, Inc.
Front Weight Jack Kit
1982-92 Camaro/Firebird
P/N: 030331

The Detroit Speed Inc., Front Weight Jack Kit is a direct replacement assembly for standard front coil springs. This kit allows independent front corner height adjustment as well as front corner weight tuning. The jack bolt can be adjusted with a 1/2" ratchet extension from the bottom side of the lower control arm and articulates on an aircraft grade monoball to provide smooth, precise articulation through suspension travel. This corner weight system offers more inner tire clearance vs. a traditional coilover system. The included coil spring has a 950 lbs./in. spring rate.



Item	Part Description	Quantity
1	Weight Jack Assembly	2
2	Coil Spring (950 lbs. /in.)	2
3	Instructions	1

NOTE: There is a front suspension installation video available through the Detroit Speed website in the tech/install video section shown here:

<https://www.detroitsspeed.com/1982-92-camaro-firebird-installation-videos>.

1. To begin installation, chock the rear wheels and loosen the front lug nuts. Raise and support the front of the vehicle with jack stands under the frame. Remove the front wheels.
2. Remove the brake calipers and support them out of the way. Disconnect the anti-roll bar end links from the anti-roll bar.

3. Mark the position of the 2 nuts holding the spindle to the strut mount by making a line from the nut to the spindle. We will use this line when tightening these 2 bolts during re-assembly.
4. Support the lower control arm with a floor jack. **CAUTION: The coil springs are under tension. The proper spring compressor must be used.** Remove the 2 strut bolts so the lower control arm and spindle will drop down. It is not necessary to separate the lower ball joint from the spindle. Remove the factory coil springs.
5. During the assembly process at Detroit Speed, the jack bolt has extreme pressure grease applied to the threads. If for any reason you had to remove the grease or re-apply it during maintenance, we do recommend using extreme pressure grease on the jack bolt. You can do this by threading the upper frame cup out of the spring perch and cleaning any debris off the jack bolt. Once you have applied the extreme pressure grease, thread the frame cup back down to the spring perch to help with installation.



Figure 1 - Weight Jack Assembly

6. Before installing the weight jack assembly (Figure 1) into the vehicle, note that the 5/16" location pin must line up with the location slot in the factory upper spring pocket (Figure 2).



Figure 2 - 5/16" Pin Location

7. Thread the upper frame cup down all the way to the spring perch and install the front weight jack assembly (Figure 3). Locate the 5/16" pin into the factory upper spring pocket.



Figure 3 – Install Weight Jack Assembly

8. Using a floor jack, raise the lower control arm to hold the weight jack assembly in place. Rotate the spring if needed to properly position the spring in the lower control arm spring pocket. Install the 2 strut bolts into the strut mount and spindle.
9. Torque the 2 strut bolts to 150 ft.-lbs. and then tighten the nut until the line on the nut goes back to the line on the spindle so it is back in the same location as the initial torque setting.



Figure 4 – Weight Jack Assembly Installed

10. Repeat steps 3 through 10 for the opposite side of the vehicle.
11. Reinstall the brake calipers as well as the anti-roll bar end links. Install the front wheels and lower the vehicle to the ground. Torque the wheels to the manufacturer's recommended torque specs. Verify ride height.
12. To adjust the vehicle to the desired ride height, jack up the front of the vehicle to take some load off the spring. Make your adjustment by using a 1/2" ratchet extension from the bottom side of the lower control arm into the jack bolt. To raise the ride height of the vehicle turn the jack bolt clockwise and to lower the vehicle turn the jack bolt counter clockwise.
13. The installation is now complete.

If you have any questions before or during the installation of this product please contact Detroit Speed Inc. at tech@detroitsspeed.com or 704.662.3272

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