



**Detroit Speed, Inc.**  
**Front Anti-Roll Bar Kit**  
**1982-92 Camaro/Firebird**  
**P/N: 031413**

The Detroit Speed Inc., Front Tubular Anti-roll Bar Kit is designed to improve cornering and reduce body roll. Detroit Speed's larger than stock, hollow anti-roll bar is powder coated black and comes with everything you need to bolt it on including grease-able polyurethane bushings and end links. This kit also features a direct bolt-in frame bracket that relocates the bar for better fitment and improves front frame stiffness.



Item	Part Description	Quantity
1	Tubular Anti-Roll Bar	1
2	Front Frame Bracket Assembly	1
3	Polyurethane Anti-Roll Bar Bushing	2
4	Anti-Roll Bar Bushing Mounting Bracket	2
5	Anti-Roll Bar End Links	2
6	3/8"-16 x 3/4" L Hex Head Bolt	4
7	3/8"-16 Nylock Nut	2
8	3/8" AN Washer	4
9	M10-1.5 x 25mm Flange Bolt	5
10	M12-1.75 x 35mm Hex Head Bolt	2
11	M12-1.75 Nylock Nut	2
12	M12 Flat Washer	2
13	Super Grease	1
14	Instructions	1

Fastener Torque Specifications	
Application	Torque (ft-lbs)
Front Frame Bracket	25
Anti-Roll Bar Bushing Bracket	25
Steering Box	65
Idler Arm	50

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>.

### Installation Instructions

1. To begin installation, chock the rear wheels and loosen the front lug nuts. Raise the front of the vehicle and support the vehicle under the front control arms so the front suspension is at ride height. Remove the front wheels.
2. Remove the existing anti-roll bar from the vehicle. Disconnect the idler arm from the frame and remove the original right-hand anti-roll bar bracket. **NOTE:** Some vehicles came with a lower structure brace that will also need to be removed with the stock anti-roll bar.
3. Remove the steering box bolts and lift up the steering box with a floor jack to remove the original left-hand anti-roll bar bracket.
4. Install the new Detroit Speed frame bracket and get all provided M10-1.5 x 25mm bolts started using medium strength blue Loctite 242. Install the Idler arm using M12-1.75 x 35mm Hex Head Bolts, Nylock Nuts and washers using medium strength blue Loctite 242 (Figure 1). Do not torque at this time.



Figure 1 – Re-install Idler Arm

5. Torque the M10 frame bracket hardware at this time to 25 ft.-lbs. (Figure 2).

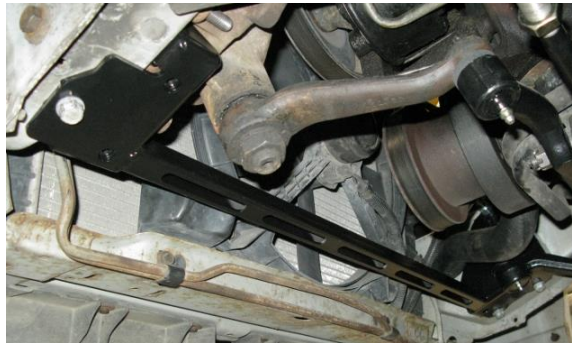


Figure 2 - Front Frame Bracket

6. Re-position and torque the steering box bolts to 65 ft.-lbs.
7. Before tightening the Idler arm, measure from the inner tie rod stud center to the ground on the driver and passenger side (See Figure 3).



Figure 3 - Level the Center Link

8. Slide the Idler arm up or down on the front frame bracket until your 2 measurements are within  $1/32$ ". Once the Idler arm is level, torque the Idler arm to 50 ft.-lbs. Double check your center link to make sure it is still level after tightening.
9. Install the urethane bushings on the anti-roll bar using the provided Super Grease and slide the bushing mounting brackets over the bushings.
10. Install the anti-roll bar onto the frame bracket using the provided  $3/8$ "-16 x  $3/4$ "L Hex Head Bolts, Nylock nuts and washers and apply medium strength blue Loctite 242 to the threads (See Figure 4). Do not tighten at this time.



Figure 4 - Front Anti-Roll Bar

11. Disassemble the anti-roll bar end links and re-assemble the assembly between the anti-roll bar and the lower control arm. **NOTE:** It may be necessary to reposition the anti-roll bar in the mounts to better line up the end links. Do not over tighten the end links. The end links are tight when the polyurethane bushings start to compress.
12. If using the Detroit Speed tubular lower control arms, use the end links provided in the Detroit Speed lower control arm kit (See Figure 5).



Figure 5 – ARB End Link with Detroit Speed Lower Control Arm

13. Check that the anti-roll bar is centered in the vehicle. Once centered, the anti-roll bar bushing clamps can now be tightened to the front frame bracket. Torque the 3/8"-16 Hex Head Bolts to 25 ft-lbs.
14. Reinstall the front wheels and torque to the manufacturer's recommended torque specs. Lower the vehicle to the ground. The installation is now complete (See Figure 6).



Figure 6 – Installation Complete

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

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