

**Detroit Speed
Offset Shackles
1967-69 Camaro/Firebird & 1968-74 Nova
P/N: 040901DS**

Detroit Speed's exclusive billet aluminum offset shackles are designed to relocate the rear leaf springs inboard to accommodate larger rear tires. They were computer modeled and optimized with FEA, tested, and then CNC machined. They relocate the rear leaf spring inboard to accommodate 335 tires (with a section of 13.5") on a 1967-69 Camaro/Firebird or 315 tires (with a section width of 12.6") on an 1968-74 Nova. The shackle offset is 1-3/4". Use along with our other mini-tub components to complete your project. The kit includes four offset shackles and Grade 8 fasteners. The Detroit Speed shackle is designed for maximum suspension travel.



Item Number	Description	Quantity
1	Rear Leaf Spring Shackle	4
2	1/2-20 x 6" L Grade 8 Bolt	4
3	1/2-20 Nylock Nut	4
4	1/2" SAE Flat Washer	8
5	Instructions	1

Fastener Torque Specifications	
Application	Torque (ft-lbs)
Shackle Bolts	75

NOTE: The stock fuel tank will need to be narrowed or Detroit Speed's new narrowed stainless steel fuel tank used when relocating the rear leaf springs.

NOTE: The DSE offset shackles were designed to be used with the Detroit Speed rear drop leaf springs. They were not designed to be used with reverse eye leaf springs.

1. Remove the original shackles from the rear frame and leaf springs. Remove the factory fuel tank.
2. Modify your factory fuel tank and reinstall or install your new Detroit Speed narrowed stainless steel fuel tank.
3. Install the new shackles so that the offset portion of the shackle is inboard of the frame rail. See Figure 1 for correct installation configuration. Do not torque at this time.

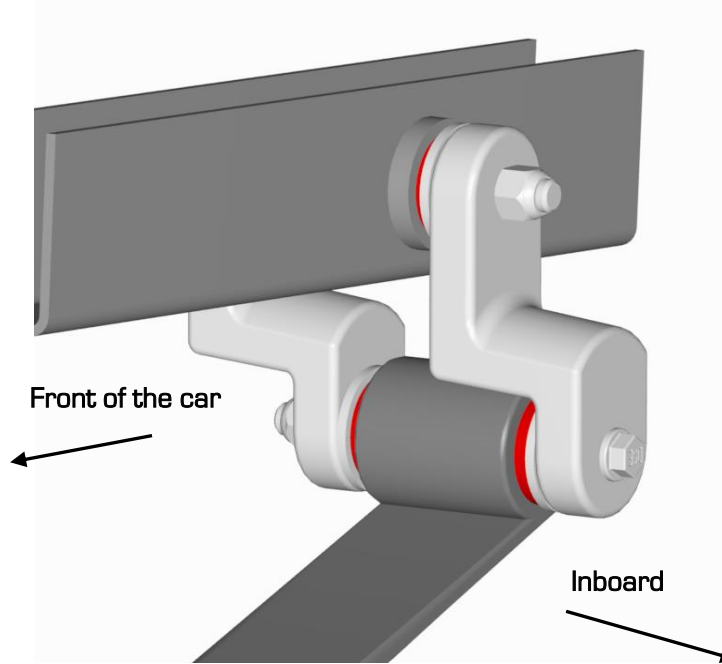


Figure 1 - Correctly Installed Shackle

4. Load the rear suspension with the weight of the car, then torque the rear shackle bolts to the specification listed in the table above. Check all rear clearances before driving the car.

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

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