

Detroit Speed
Delrin™ Bushing & Shackle Kit
1982-2004 GM S10 Truck
P/N: 041512DS

The Detroit Speed Delrin™ Bushing and Shackle Kit provides the ultimate handling performance for your leaf spring equipped 1982-2004 S10. The kit includes shackle bushings, zinc-plated heavy-duty steel shackles, bolts, and lock nuts.



Item #	Description	Quantity
1	Aluminum Bushing Housing	4
2	Delrin™ Bushing Sleeve	4
3	Zinc Coated Crush Sleeve	4
4	Delrin™ Bushing Washers	8
5	Zinc Coated Shackle Plate	4
6	Flanged HHCS M14-2 x 120 Class 10.9 Clear Zinc	4
7	Flanged Lock Nut M14-2 10.9 Class Clear Zinc	4
8	Super Grease	1
9	Grease Gun Adapter	1

IMPORTANT:

All work should be performed by a qualified welder and technician. Please read the complete set of instructions and fully understand all the steps involved before beginning the project. Always make sure to wear the appropriate safety equipment for the job and properly support the vehicle. If you have any questions before, during, or after the installation, feel free to contact Detroit Speed by phone at (704) 662-3272 or by email at tech@detroitsspeed.com.

Installation:

1. Support the frame of the vehicle on jack stands so that the frame is level with the ground.
2. Using a jack, support the rear axle housing. Raise or lower the rear axle as required to remove tension from the leaf spring shackle bolts. For a fully assemble truck, it is recommended to install one side at time.
3. Remove the factory leaf spring shackles from the leaf spring eye and frame. You will not reuse the bushing, shackle, or hardware.



Figure 1 - Remove Factory Leaf Spring Shackle

4. Remove the factory leaf spring bushing from the frame rail, it must be pressed from inside to out
** Light taps with an Air Hammer can free and push out the bushing easily. Take care to not bend the outer metal shell outward



Figure 2 - Remove Factory Leaf Spring Bushing

5. Remove the leaf spring bushing from the leaf spring rear eye using the same process as the frame bushing.
NOTE: When installing along with DSE lowering springs, the removal of a bushing is not required.
6. Insert one black anodized aluminum housing from the outside frame rail. The outside of the housing is stepped to aid in alignment.

Ensure that the grease zerk fitting is oriented to the rear of the vehicle to allow for grease application after installation

NOTE: To aid in the installation, apply a small amount of assembly lubricant to the outside of the bushing housing.

7. Insert a black anodized aluminum housing into the leaf spring rear eye. The bushing housing installs from the outboard side of the leaf spring. Ensure that the grease zerk fitting is oriented to the rear of the vehicle to allow for grease application after installation

NOTE: To aid in the installation, apply a small amount of assembly lubricant to the outside of the bushing housing.

8. Assemble the bushings as outlined below
 - a. Apply a light coating of grease to the outside of the delrin bushing, then insert into the frame side aluminum housing.
 - b. Apply a light coating of grease to the outside of the yellow zinc crush sleeve, then insert inside the delrin bushing s
 - c. Install delrin washers on both sides of the crush sleeve
 - d. Repeat for the leaf spring rear eye bushing



Figure 3 – Leaf Spring Bushing Assembly

9. Install the leaf spring shackles, the single hole installs on the frame side of the bushing. Install the M14 flange bolt from the outside of the chassis. Apply anti-seize to the threads of the shackle bolt and install a M14 Flange Nut. Snug but do not torque at this time.

10. Insert the leaf spring between the shackles. Align the shackles on the top mounting holes and install the M14 flange bolt from the outside. Apply anti-seize to the threads of the shackle bolt and loosely install a M14 Flange Nut. Snug but do not torque at this time.

NOTE: The alternate hole allows for ride height adjustment. The 2nd hole will raise the rear of the truck approximately 1/2”

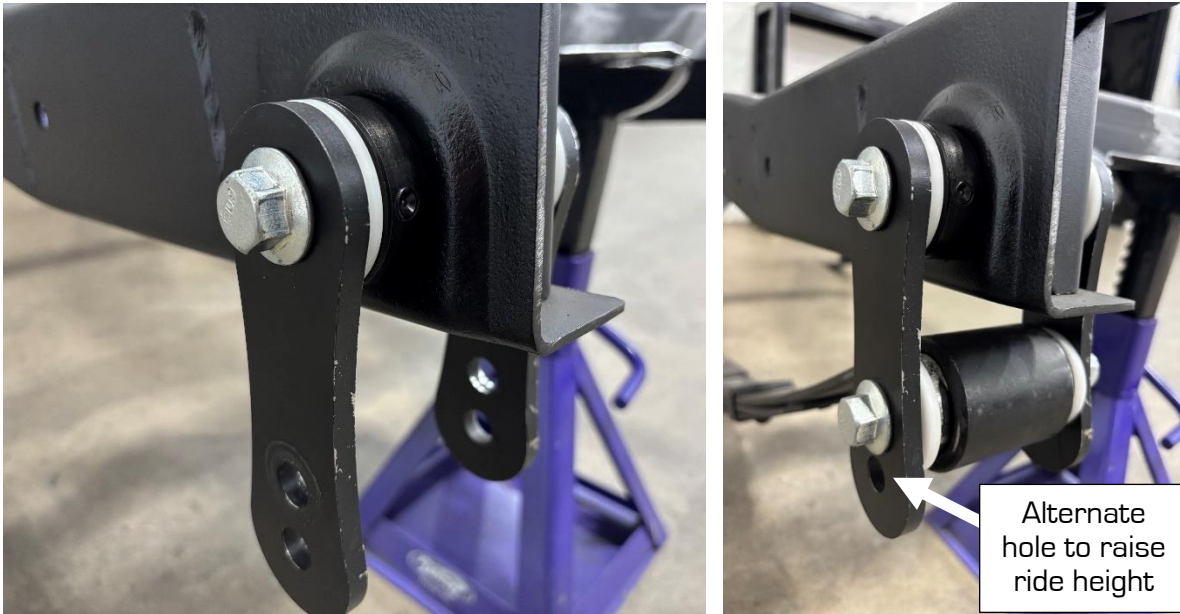


Figure 4 - Leaf Spring Shackle Assembly

11. Repeat steps 4 to 10 on the opposite side of the vehicle.
12. With both leaf springs and shackles installed, lower the vehicle to the ground.
13. Torque all 4 shackle bolts to 75 ft-lbs

Maintenance: Apply grease to the bushing using a needle grease gun. Only a small amount of grease is needed, approximately 1-2 pumps

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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Once again, we appreciate your business.
If you have any questions during the installation of this product, call (704) 662-3272