

PART NUMBER
SSA28



SCAN HERE: To watch a video of this installation



BEFORE YOU BEGIN

PRIMARY APPLICATIONS

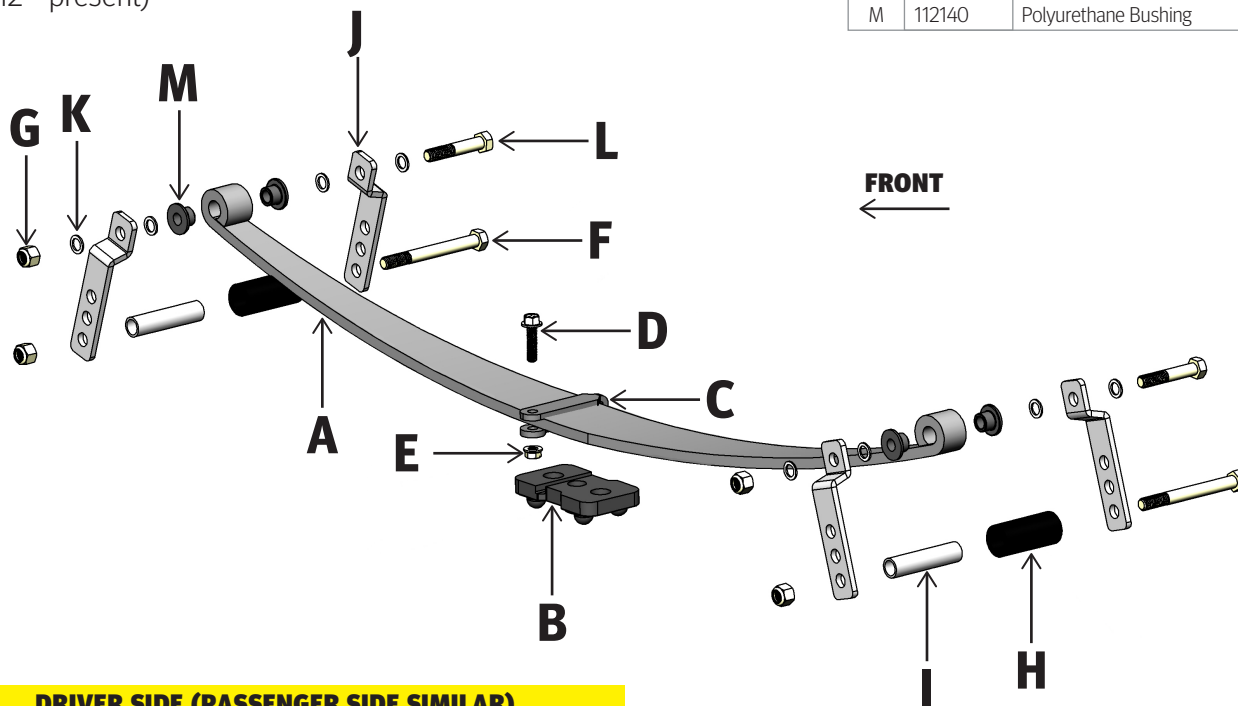
- > Chevrolet Silverado 1500 4 X 2 & 4 X 4 (2014 - present)
- > Ford F-150 4 X 2 & 4 X 4 (2004 - present)
- > GMC Sierra 1500 4 X 2 & 4 X 4 (2014 - present)
- > Nissan NV1500 4 X 2 (2012 - present)
- > Nissan NV2500 4 X 2 (2012 - present)
- > Nissan NV3500 4 X 2 (2012 - present)

TOOLS REQUIRED

- > Floor Jack
- > Safety Jack Stands
- > Wheel Chocks
- > ¾" Wrench/Sockets
- > 9/16" Wrench/Sockets
- > C-clamp or SuperSprings Installation Tool

PARTS LIST

| Item | Part # | Discription | QTY |
|------|--------|---------------------------|-----|
| A | 102008 | SSA28 Leaf Spring | 2 |
| B | PSP-19 | Polyurethane Spring Pad | 2 |
| C | 112256 | Spring Clip | 2 |
| D | 512301 | 3/8-16 x 1 ½" Flange Bolt | 2 |
| E | 512302 | 3/8 Locking Flange Nut | 2 |
| F | 112170 | ½-13 x 4 ¾" Hex Bolt | 4 |
| G | 112126 | ½-13 Nylock Nut | 8 |
| H | 112189 | HDPE Roller | 4 |
| I | 112171 | Steel Sleeve | 4 |
| J | 122414 | Shackle Leg 4 Holes | 8 |
| K | 112127 | ½" Nylon Washer | 16 |
| L | 112124 | ½-13 x 2 ¾" Hex Bolt | 4 |
| M | 112140 | Polyurethane Bushing | 8 |



DRIVER SIDE (PASSENGER SIDE SIMILAR)

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Product Line: SUPERSPRINGS

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Questions or Concerns?

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superspringsinternational.com

SAFETY NOTICE: We recommend installation be done by a professional or persons with sound mechanical knowledge.

WARNING: These instructions are a general guide for installation. SuperSprings International (SSI) assumes no liability for the actual installation process. Consumers and installers should apply common automotive safety practices when raising and working on any vehicle. **Do not put yourself in a position where, if the vehicle were to move unexpectedly, you may be injured.** SSI's products are designed to improve vehicle ride quality. Do not load any vehicle beyond the manufacturer's specifications.

Never exceed the manufacturer's Gross Vehicle Rating (GVWR) located on your vehicles identification tag.

BEFORE INSTALLATION: Ensure the vehicle is on a hard level surface, the parking brake is ON, with the ignition OFF, and place chocks in front of and behind the tires to prevent the vehicle from moving.

DURING AND/OR AFTER INSTALLATION: Ensure emergency brake cables are not touching the SSI products. Secure any cables out of the way with zip ties or by re-routing. Ensure all A/C lines, brake cables, and frame are clear of contact or interference.

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INSTALLATION

1. Positioning the vehicle – Vehicle must be on level solid surface. Ensure emergency brake is ON and Ignition is OFF. Chock the front tires to prevent the vehicle from moving.
2. Jack up vehicle – elevate and support the frame securing with jack stands so that the axle is hanging with tires slightly off the ground. Wheel removal is optional.
3. Spring Orientation – The SSA28 does not have a dedicated front/rear. However, the threaded ends of the spring eye bolts should be pointing outboard, away from the frame.
4. Remove Shackle Roller Assemblies – Using $\frac{3}{4}$ " tools, wrenches / sockets / ratchet, remove and set aside the Bolts [ITEM F] and Nuts [ITEM G] retaining the Rollers [ITEM H] and Sleeves [ITEM I] from the front and rear of the shackles. Rotate the shackles toward the center and parallel to the spring.
5. Place PSP-19 [ITEM B], centered between the u-bolts, on top of the factory spring-plate with the flat side facing up and the groove towards the front of the vehicle.
6. Per the diagram, place the Spring Clip [ITEM C] around the spring so the holes are on the outboard side and the smaller leg is on the bottom of the SuperSpring. Install the $\frac{3}{8}$ -16 x 1 $\frac{1}{2}$ " Flange Bolt [ITEM D] down through the holes of the Spring Clip and attach with the $\frac{3}{8}$ -16 Locking Flange Nut [ITEM E]. Only partially tighten the nut so that the clamp assembly can still be moved freely on the spring blade.
7. Place the SSA28 SuperSpring on top of the PSP-19 above the OE leaf pack. Position the Spring Clip assembly so that the smaller leg below the spring is located in the groove of the PSP-19 mounting pad.
8. Shackle Attachment - [Note: The top/spring eye shackle bolts are factory pre-torqued; no adjustment/further tightening is needed. If any are loosened by the installer then retorque to 30 ft. lbs.

Shackle Attachment Front - Rotate the front shackles legs down on both sides of the leaf spring. Adjust the position front to rear so the shackle is located just behind the front factory spring clip. Using ITL-1 or other high capacity clamp(s), compress the SuperSprings and factory leaf pack together. Place the Sleeve [ITEM I] and the Roller [ITEM H] between the Shackle legs and align with middle hole. Secure with the $\frac{1}{2}$ -13 x 4 $\frac{3}{4}$ " Hex Bolt [ITEM F] and 1/2-13 Lock Nut [ITEM G]. Ensure the threads of the bolts are facing outboard, away from the frame. Torque to 35 ft. lbs.

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INSTALLATION

Shackle Attachment Rear – Rotate the rear shackles legs down on both sides of the leaf spring. Using a heavy-duty clamp or SuperSprings installation tool, compress the rear of the SuperSpring and attach the rear shackle in the same way as the front. The rear shackle should be positioned behind the rear spring clip with ½ to 1" clearance between the roller and the clip. If the plastic tang on the bottom of the factory leaf interferes with the roller, chisel or grind it off flush. Torque to 35 ft. lbs.

9. Confirm that there is adequate clearance around the SuperSpring from the frame, brake lines, harnesses, etc. In some cases, it may be necessary to bend routing brackets to adjust position of the brake lines or harnesses for clearance.

NOTE: The center holes of the shackle are meant to be a starting point for preload. If less preload is desired the lower holes may be used. If more preload is required, the upper holes may be used. Start by adjusting only the front shackle first, and then the rear.

10. Tighten Bolt [ITEM D] and Nut [ITEM E] to clamp the Spring Clip [ITEM C] securely to the SuperSpring.

11. Repeat steps 3 through 10 on passenger side of the vehicle.

12. Lower the vehicle – elevate chassis, remove the jack stands, lower to the ground. Remove wheel chocks from front wheels.

13. Final Check – Check the position of the SuperSprings ensuring for correct hardware application and orientation. Observe all hardware ensuring for static and dynamic interference clearances. Recheck all hardware to ensure it is securely tightened.

NOTE: After 200-500 miles of driving, recheck all hardware again for tightness.

14. Register the warranty for your SuperSprings International part. A warranty card can be found in the box your part came in.

