

PART NUMBER

**SSR-315-40-2/47-2**



**BEFORE YOU BEGIN**

**PRIMARY APPLICATIONS**

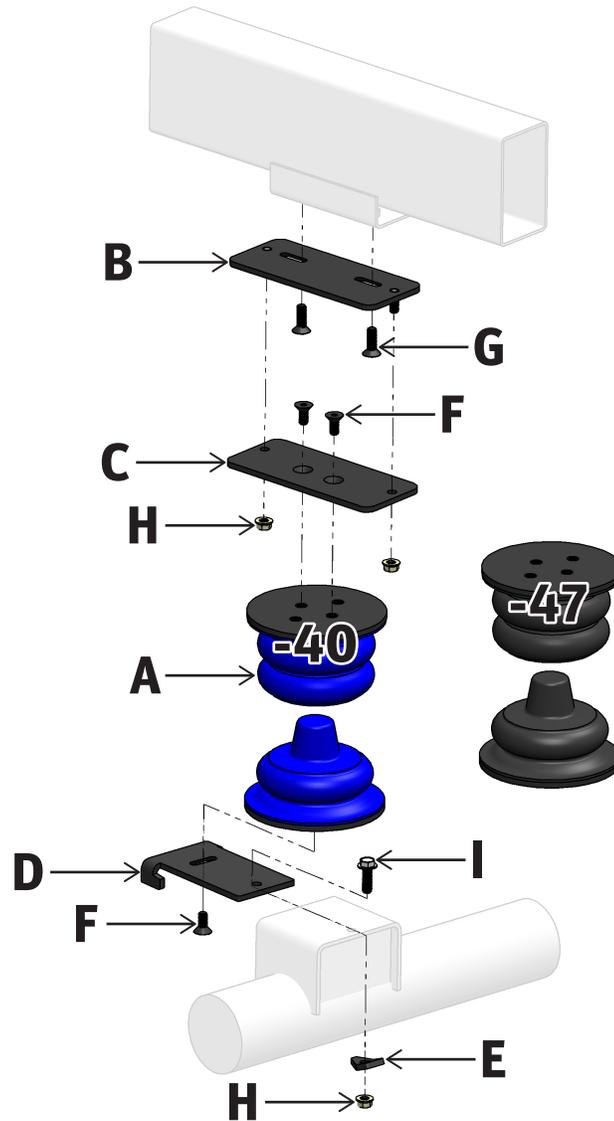
- > RAM 2500 4 X 4  
(2014 - present)

**PARTS LIST**

Item	Part #	Description	QTY
A	511419	SumoSprings Blue -40	2
	511418	SumoSprings Black -47	
B	512141	Upper Bracket Top	2
C	512142	Upper Bracket Bottom	2
D	512140	Lower Bracket	2
E	512146	Lower Bracket Clip	2
F	512245	3/8 x 7/8 FHCS	6
G	512320	M10 x 30mm FHCS	4
H	512302	3/8 Lock Nut	6
I	512278	3/8 x 1 1/4" Hex Bolt	2

**TOOLS REQUIRED**

- > Floor Jack
- > Jack Stands
- > Wheel Chocks
- > 7/32 Allen Wrench
- > 9/16 Socket and Wrench
- > 5mm Allen Wrench
- > 7mm Allen Wrench



**DRIVER SIDE (PASSENGER SIDE SIMILAR)**

**Part Number: SSR-315-40-2/47-2**

**Product Line: SUMOSPRINGS REAR**

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Questions or Concerns?

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[superspringsinternational.com](http://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.

REV. 2.01 | SEP 2023

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## SSR-315-40-2/47-2



### INSTALLATION

1. Park the vehicle on a hard, level surface and engage the emergency brake. Place chocks in front and behind wheels to prevent rolling. Observe all safety precautions and wear safety glasses.
2. Raise the rear of the vehicle allowing the axle to hang free and rest the frame on the safety jack stands rated for the weight of the vehicle. Removal of the rear wheels is optional.
3. Starting on the driver side, unbolt and remove the existing factory bump stop from the underside of the frame.
4. Attach the Upper Bracket Top [ITEM B] to the original bump stop location using two of the M10 x 30mm FHCS [ITEM F]. Leave the screws slightly loose so that the bracket can be adjusted front to back.
5. Using the two 3/8 x 7/8 FHCS [ITEM F], attach the Upper Bracket Bottom [ITEM C] to the top half of the SumoSprings [ITEM A]. Place a drop of Blue Thread Locker on the threads of each bolt and torque to 30 ft. lbs.
6. Attach the SumoSprings with the Upper Bracket Bottom to the Upper Bracket Top using two 3/8 Lock Nuts [ITEM H]. Leave these nuts loose for now.
7. Attach the Lower Bracket [ITEM D] to the bottom half of the SumoSprings [ITEM A] using one 3/8 x 7/8 FHCS [ITEM F]. Leave the bolt slightly loose so that SumoSprings can still be adjusted.
8. Place the Lower Bracket and bottom half of SumoSprings on top of the bump stop contact pad on the axle. The hooks of the bracket should be on the front side of the axle pad and will locate in the openings on the front side of the axle pad as the bracket is slid toward the rear of the truck. If needed, a soft mallet may be used to tap the bracket and fully seat the hooks onto the axle pad.
9. Once the upper and lower components are in place, raise the axle with the jack so the weight of the truck is back on the suspension. Adjust the upper components front to rear and the lower components left to right so that the top and bottom halves of the SumoSprings are visually aligned. Mark the locations with a

pencil and then lower the axle so the frame is supported by the jack stands and the axle is once again hanging freely.

10. Remove the Upper Bracket Bottom [ITEM C] and SumoSprings [ITEM A] assembly from the Upper Bracket Top [ITEM B]. Keep the Upper Bracket Top aligned with the marked location on the frame and add a drop of Blue Thread Locker to each of the M10 x 30mm FHCS [ITEM G]. Tighten them to 30 ft. lbs.
  11. Reattach Upper Bracket Bottom to Upper Bracket Top using the two 3/8 Lock Nuts [ITEM H], torque to 20 ft. lbs.
  12. Remove the lower components from the axle. Make sure you keep the SumoSprings aligned with the marks made on the bracket. Add a drop of Blue Thread Locker to the threads of the 3/8 x 7/8 FHCS [ITEM F] and tighten to 30 ft. lbs. Place Lower Bracket and SumoSprings assembly back on the axle bump stop pad and position as in step 8.
  13. Install one 3/8 x 1 1/4" Hex Bolt [ITEM I] downward through the hole in the rear of the Lower Bracket [ITEM D]. Slide the Lower Bracket Clip [ITEM E] up onto the 3/8 x 1 1/4" Hex Bolt [ITEM I] and position so that the pointed end is under the edge of the lip of the axle bump stop pad and the squared end is bending up and contacting the rear edge of the Lower Bracket [ITEM D].
  14. Thread the 3/8 Lock Nut [ITEM H] onto the 3/8 x 1 1/4" Hex Bolt [ITEM I]. Make sure that the Lower Bracket Clip [ITEM E] stays in position and tighten securely.
- IMPORTANT NOTE:** Do not over tighten the bolt to the point of bending the clamp or bracket.
15. Repeat steps 3 through 14 on the passenger side of the vehicle.
  16. Jack up the vehicle and remove the safety jack stands. Remove wheel chocks from the front wheels. If the rear wheels were removed you can now reinstall the rear wheels and torque wheel nuts to manufacturers specifications.
  17. Register the warranty for your SuperSprings International part. A warranty card can be found in the box your part came in.

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