

PART NUMBER

SSR-315-40/47-2



BEFORE YOU BEGIN

PRIMARY APPLICATION

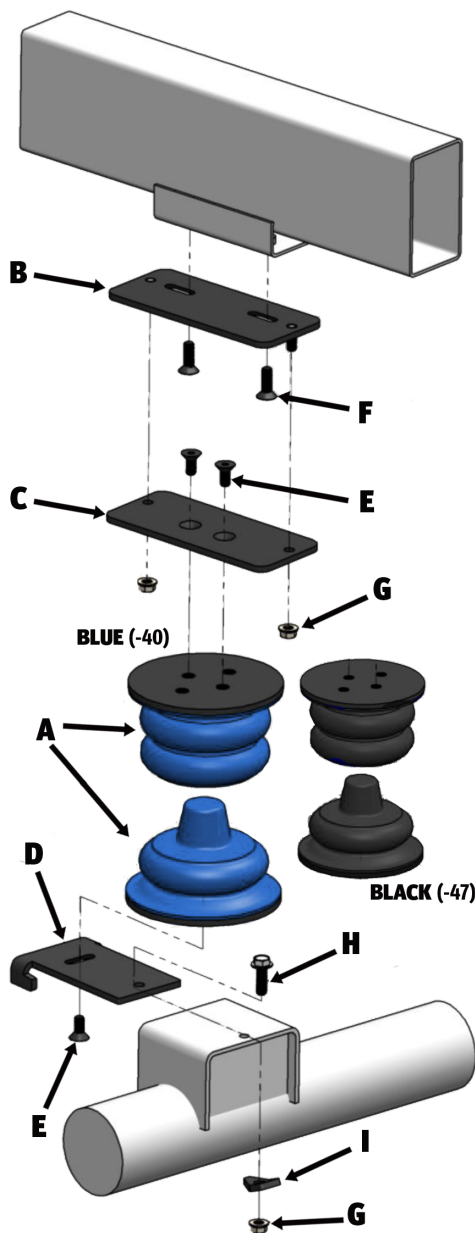
- › Dodge Ram 2500 4WD (2014 - present)

TOOLS REQUIRED

- › Floor jack
- › Safety jack stands
- › 7/32 allen wrench
- › 9/16 socket and wrench
- › 5mm and 7mm allen wrench

PARTS LIST

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



DRIVER'S SIDE (PASSENGER'S SIDE SIMILAR)

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

› Product Line: SUMOSPRINGS REAR

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SuperSprings International, Inc.

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Installation Support

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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, Inc. 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.** SuperSprings' 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 level surface, the parking brake is ON, with the ignition OFF, and place blocks in front of and behind the front tires to prevent the vehicle from moving.

DURING AND/OR AFTER INSTALLATION: Ensure emergency brake cables are not touching the SuperSprings. 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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IMPORTANT NOTICE: Your part may have been loosely preassembled to show the final product as it will be once installed on your vehicle. Please disassemble the product before proceeding to the installation.

INSTALLATION

1. Park vehicle on level hard surface. Place wheel blocks in front and behind the front 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 either side, unbolt and remove the 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 Flat Head Cap Screws [ITEM F]. Leave the screws slightly loose so that the bracket can be adjusted front to back.
5. Using the two 3/8-16 FHCS [ITEM E], attach the upper bracket bottom [ITEM C] to the top half of the SumoSpring [ITEM A]. Place a drop of the blue Loctite on the threads of each bolt and torque to 30 ft. lbs.
6. Attach the SumoSpring with the upper bracket bottom to the upper bracket top using two 3/8 lock nuts [ITEM G]. Leave these nuts loose for now.
7. Attach the lower bracket [ITEM D] to the bottom half of the SumoSpring [ITEM A] using one 3/8 FHCS [ITEM E]. Again, leave the bolt slightly loose so that SumoSpring position can still be adjusted.
8. Place the lower bracket and bottom half of SumoSpring 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 SumoSpring 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 SumoSpring [ITEM A] assembly from the upper bracket top [ITEM B]. Keep the upper bracket A aligned with the marked location on the frame and add a drop of Loctite to each of the M10 mounting bolts [ITEM F]. Tighten them to 30 ft. lbs.

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INSTALLATION

- 11.** Reattach upper bracket bottom to upper bracket top using the two 3/8 Lock Nuts [ITEM G] and torque to 20 ft. lbs.
 - 12.** Remove the lower components from the axle. Make sure you keep the SumoSpring aligned with the marks made on the bracket. Add a drop of Loctite to the threads of the bolt [ITEM E] and tighten to 30 ft. lbs. Place lower bracket and SumoSpring 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 H] downward through the hole in the rear of the lower bracket [ITEM D]. Slide the bracket clamp [ITEM I] up onto the bolt [ITEM H] 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 lock nut [ITEM G] onto the bolt [ITEM H]. Make sure that the clamp [ITEM I] 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 3-14 on the other side of the truck.
 - 16.** Jack up the vehicle and remove the safety jack stands. Remove wheel blocks from the front wheels. If the rear wheels were removed you can now reinstall the rear wheels and torque wheel nuts to manufacturers spec.
 - 17.** Register the warranty for your SuperSprings International part. A warranty card can be found in the box your part came in.