

PART NUMBER

SSR-316-40-2/47-2



BEFORE YOU BEGIN

PRIMARY APPLICATIONS

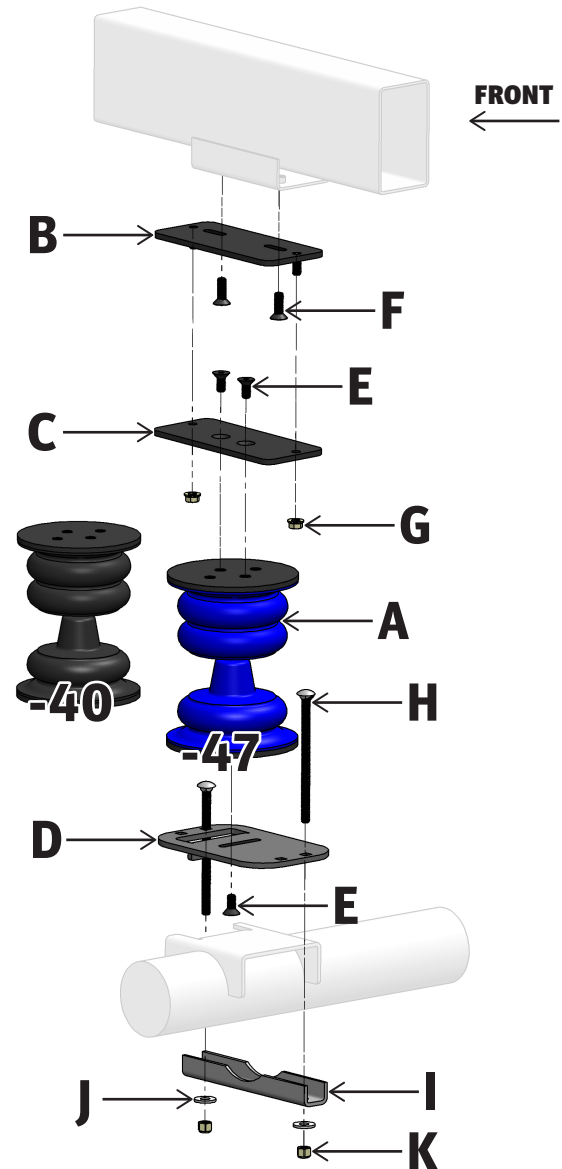
- > RAM 2500 4 X 2
(2014 - present)

PARTS LIST

Item	Part #	Discription	QTY
A	511419	SumoSprings Blue -40	2
	511418	SumoSprings Black -47	
B	512141	Upper Mounting Bracket A	2
C	512142	Upper Mounting Bracket B	2
D	512154	Lower Mounting Bracket	2
E	512245	3/8 x 7/8" FHCS	6
F	512320	M10-1.5 x 30mm FHCS	4
G	512302	3/8 Lock Nut	4
H	512258	3/8 x 7 1/2" Carriage Bolt	4
I	512054	Lower Axle Clamp	2
J	512227	3/8 Flat Washer	4
K	512323	3/8 Nyloc Nut	4

TOOLS REQUIRED

- > Floor Jack
- > Jack Stands
- > Wheel Chocks
- > Ratchet
- > 9/16 Socket
- > 9/16 Wrench
- > 7/32 Allen Key
- > 6mm Allen Key



DRIVER SIDE (PASSENGER SIDE SIMILAR)

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Product Line: SUMOSPRINGS REAR

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SuperSprings
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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 touch-ing 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 chocks 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 driver side unbolt and remove the factory bump stop from the underside of the frame.
4. Attach Upper Mounting Bracket A [ITEM B] to the original bump stop location using two of the M10-1.5 x 30mm Flat-Head Cap Screw [ITEM F]. Leave the screws slightly loose so that the bracket can be adjusted front to back.
5. Using the two 3/8-16 x 7/8" Flat-Head Cap Screw [ITEM E], attach the Upper Mounting Bracket B [ITEM C] to the top half of the SumoSPring [ITEM A]. Place a drop of the Blue Thread Locker on each bolt and torque to 30 ft. lbs.
6. Attach the SumoSPring with Upper Mounting Bracket B to Upper Mounting Bracket A using two 3/8"-16 Locking Flange Nut [ITEM G]. Leave these nuts loose for now.
7. Attach Lower Mounting Bracket [ITEM D] to bottom half of SumoSPring [ITEM A] using one 3/8-16 x 7/8" Flat-Head Cap Screw [ITEM E]. Leave bolt slightly loose so that SumoSPrings position can be adjusted.
8. Place the Lower Mounting Bracket and bottom half of SumoSPring on top of the bump stop contact pad on the axle. Locate the bent tab on the bracket in the gap on the front side of the bump stop contact pad.
9. Once upper and lower components are in place, raise the axle with the jack so the weight of the truck is again on the suspension.
10. Adjust upper components front to rear and lower components left to right so that the top and bottom halves of the SumoSPring are aligned.
11. Mark the location of Upper Mounting Bracket A to the frame and the location of the lower half of the SumoSPring to Lower Mounting Bracket [ITEM D] 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.

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INSTALLATION

12. Remove Upper Mounting Bracket B and SumoSprings assembly from Upper Mounting Bracket A. Keep Upper Mounting Bracket A aligned with marked location on frame and add a drop of Blue Thread Locker to each of the M10-1.5 x 30mm Flat-Head Cap Screws [ITEM F]. Tighten them to 30 ft. lbs.
13. Reattach Upper Mounting Bracket B to Upper Mounting Bracket A using the two 3/8"-16 Locking Flange Nuts [ITEM G] and torque to 20 ft. lbs.
14. Remove the lower components from the axle. Be sure to keep the SumoSpring aligned with the marks made on the bracket. Add a drop of Blue Thread Locker to the threads of the 3/8-16 x 7/8" Flat-Head Cap Screws [ITEM E] and tighten to 30 ft. lbs.
15. Place the Lower Mounting Bracket and SumoSpring assembly back on the axle bump stop pad and position as in step 8.
16. Install two 3/8-16 x 7 1/2" Carriage Bolts [ITEM H] downward through the square holes in the front and rear of the Lower Mounting Bracket [ITEM D]. Ensure that they are installed in the inboard holes (furthest from the wheel) as seen in the diagram.
17. Slide the Lower Axle Clamp [ITEM I] up onto the 3/8-16 x 7 1/2" Carriage Bolt [ITEM H] with the "U" shape facing up against the bottom of the axle.
18. Place one 3/8" Flat Washer [ITEM J] onto each carriage bolt. Thread one 3/8-16 Nyloc Nut [ITEM K] onto each carriage bolt. Tighten both lock nuts evenly and securely. Do not over tighten or the Lower Mounting Bracket [ITEM D] will bend.
19. Repeat steps 3 through 18 on passenger side of truck.
20. If rear wheels were removed you can now reinstall the rear wheels and torque wheel nuts to manufacturers specifications.
21. Jack up the vehicle and remove the safety jack stands. Remove wheel chocks from the front wheels.
22. 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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