

PART NUMBER

SSR-101-40-2/47-2



BEFORE YOU BEGIN

PRIMARY APPLICATIONS

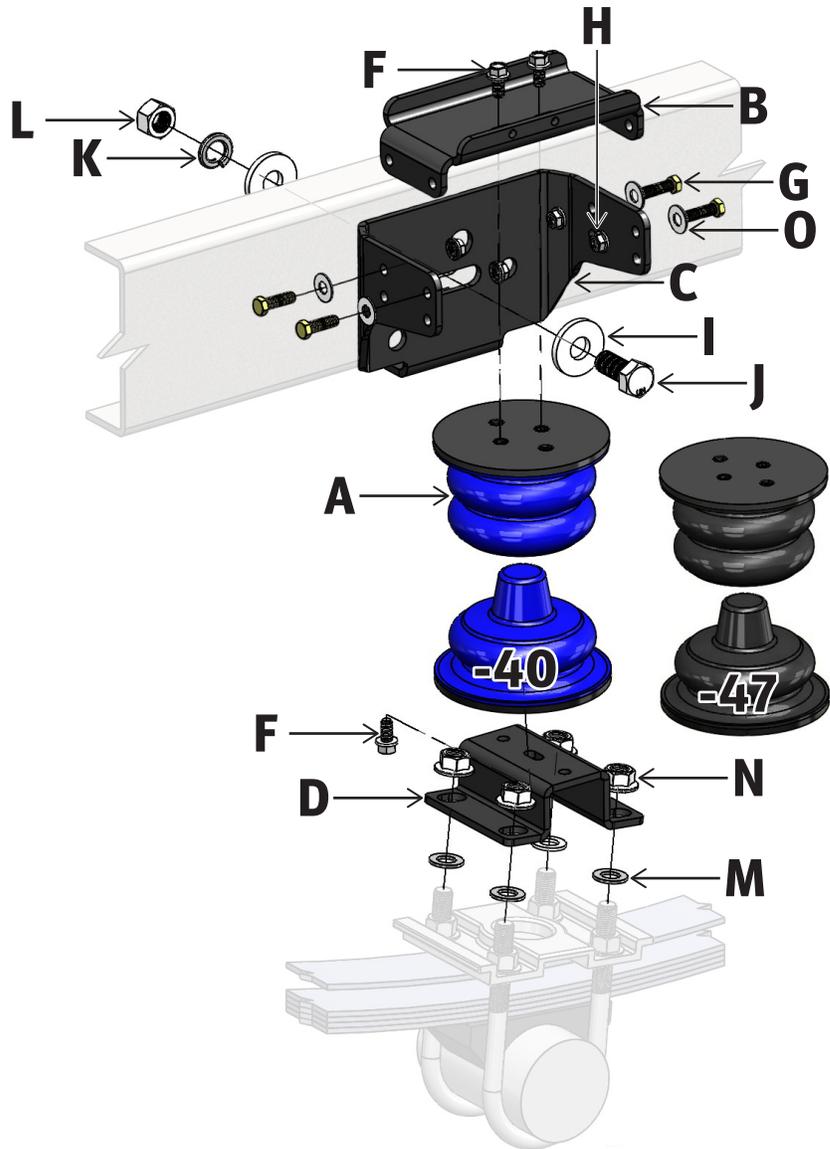
- > Ford F-250 Super Duty 4 X 2 & 4 X 4 (1999 - 2010)
- > Ford F-350 Super Duty 4 X 2 & 4 X 4 (1999 - 2010)

TOOLS REQUIRED

- > Floor Jack
- > Jack Stands
- > Wheel Chocks
- > 15/16" Wrench
- > 9/16" Wrench/Socket
- > 1 1/8" Wrench
- > 1 1/8" Socket & Ratchet

PARTS LIST

Item	Part #	Description	QTY
A	511415	SumoSprings Blue -40	2
	511412	SumoSprings Black -47	
B	512007	Upper Bracket	2
C	512006	Frame Bracket	2
D	512005	Lower Bracket	2
E	512100	Bump Stop Spacer	2
F	512207	3/8-16 x 3/4" Flange Hex Bolt	6
G	512223	3/8-16 x 1 1/4" Hex Bolt	8
H	512209	3/8-16 Flange Hex Nut	8
I	512204	3/4" Fender Washer	4
J	512203	3/4-16 x 1 1/4" Hex Bolt	2
K	512205	3/4" Lock Washer	2
L	512206	3/4-16 Hex Nut	2
M	512202	16mm Flat Washer	8
N	512201	16mm Serrated Flange Nut	8
O	512244	5/16" USS Flat Washer	16



DRIVER SIDE (PASSENGER SIDE SIMILAR)

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Product Line: SUMOSPRINGS REAR

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Questions or Concerns?

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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 (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.

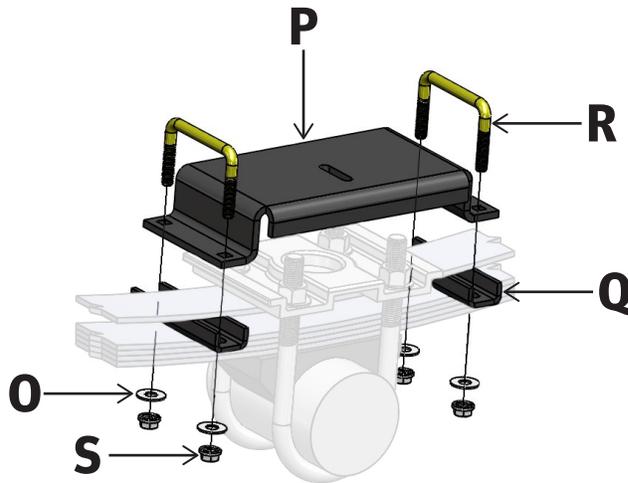
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INSTALLATION

ALTERNATE BOTTOM BRACKET ASSEMBLY



PARTS LIST

Item	Part #	Description	QTY
O	512244	5/16" USS Flat Washer	16
P	512048	Ford SD Alt. Lower Bracket	2
Q	512047	Lower U-Strap	4
R	512254	3/8" x 3" x 2" Square U-Bolt	4
	512255	3/8" x 3" x 5" Square U-Bolt	4
S	512234	3/8-16 Top Lock Nut	8

For installation with Alternate Bottom Bracket Assembly Replace steps 6–8 with the following steps:

- A.** Remove the Lower Bracket [ITEM D] from the bottom of the SumoSprings and replace it with the Alternate Lower Bracket [ITEM P]. Attach it in the same way using a 3/8-16 x 3/4" Flange Hex Bolt [ITEM F]. Once properly aligned torque the nuts to 30 ft. lbs.
- B.** If the truck is fitted with a top factory overload spring, then attach the Alternate Lower Bracket [ITEM P] to the overload spring using two 3/8" x 3" x 2" Square U-Bolts [ITEM R] and two Lower U-Straps [ITEM Q]. Secure the U-Bolts using eight 3/8" USS Flat Washers [ITEM O], and eight 3/8-16 Top Lock Nuts [ITEM S].
- C.** If the truck is not fitted with the top factory overload spring, then attach the Alternate Lower Bracket [ITEM P] to main spring-pack using the longer 3/8" x 3" x 5" Square U-Bolts [ITEM R] and two Lower U-Straps [ITEM Q]. Secure the U-Bolts using eight 3/8" USS Flat Washers [ITEM O], and eight 3/8-16 Top Lock Nuts [ITEM S].

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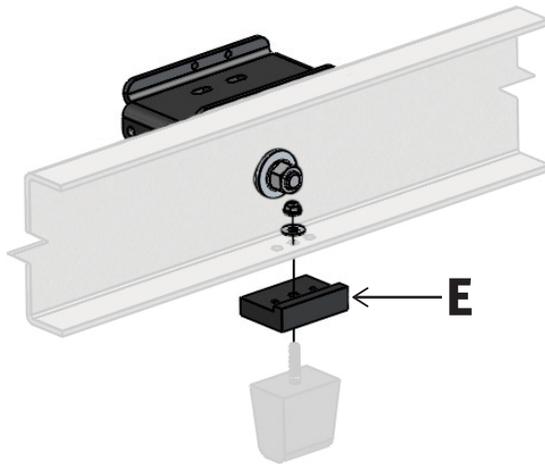
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INSTALLATION

1. Park vehicle on a hard, level 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. Remove the factory bump stop from the underside of the frame and set aside for later re-installation.
4. Remove the pre-assembled Upper Bracket Assembly from the box, Upper Bracket [ITEM B] Frame Bracket [ITEM C] SumoSprings Upper [ITEM A] Attach the assembly to the bottom of the frame rail using the factory bump stop and nut utilizing the rear hole on the frame bracket and inserting the metal tab into the center hole. Tighten the attaching nut to 30 foot pounds of torque.



1999 - 2004



2005 - 2010

For 1999 to 2004 vehicles, the convoy clip must be removed between step 3 and step 4. When reinstalling the factory bump-stop in step 4 the Bump-Stop Spacer [ITEM E] will be incorporated to account for the removed convoy clip.

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INSTALLATION

5. Secure the Frame Bracket [ITEM C] through the slotted hole in the frame to the side of the chassis frame using 3/4-16 x 1 3/4" Hex Bolt [ITEM J], 3/4" Fender Washers [ITEM I], 3/4" Lock Washer [ITEM K], and 3/4-16 Hex Nut [ITEM L]. Tighten to 240 foot pounds of torque.

NOTE: In some cases the factory u-bolts do not have sufficient length to attach to the Lower Bracket [ITEM D]. If this is the case, use the Alternate Bottom Bracket Assembly. See page 2 for diagram and instructions.

6. Remove the pre-assembled Lower Bracket Assembly, Lower Bracket [ITEM D] and SumoSPrings Lower [ITEM A]. Place one 16mm Flat Washer [ITEM M] on to each of the upturned factory U-Bolts so they rest on top of the factory U-Bolt nuts. Then place the lower bracket assembly onto the four upturned factory u-bolts. Ensure that the taller leg of the Lower Bracket [ITEM D] is toward the front of the vehicle.

7. Align the upper bracket assembly with the lower bracket assembly. If they are out of alignment, loosen the 3/8-16 x 3/4" Flange Hex Bolts [ITEM F] to realign the assemblies and re-tighten the bolts to 30 ft. lbs.

8. Attach 16mm Serrated Flange Nuts [ITEM N] to the upturned factory U-bolts firmly attaching the lower bracket to the factory U-Bolts.

9. Repeat steps 3 through 8 on the other side of the vehicle.

10. If rear wheels were removed you can now reinstall the rear wheels and torque wheel nuts to manufacturers specifications.

11. Jack up vehicle, remove safety jack stands and lower your vehicle safely.

12. Remove wheel chocks from the front wheels.

13. 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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