

PART NUMBER

**SSR-280-54-1**



**BEFORE YOU BEGIN**

**PRIMARY APPLICATIONS**

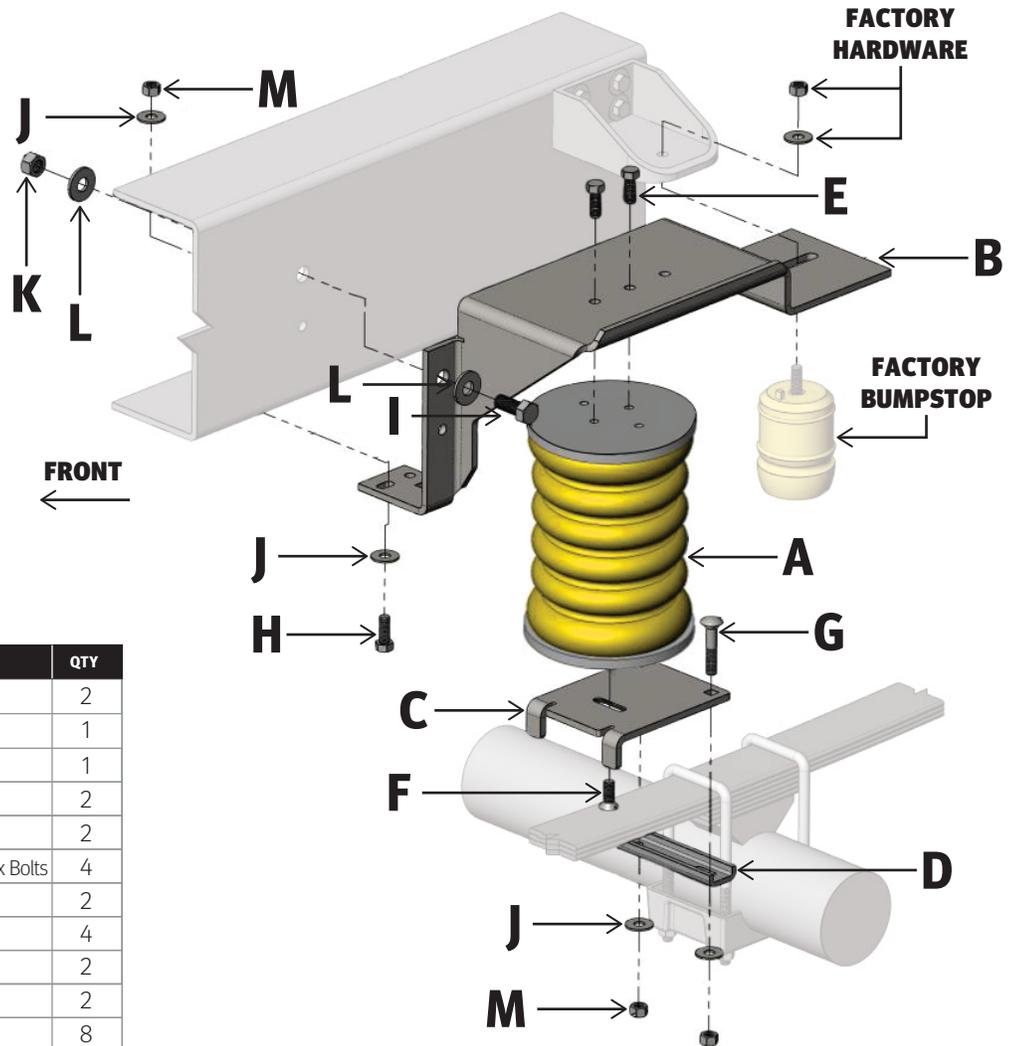
- > Workhorse W20 4 X 2 (2001 - 2009)
- > Workhorse W22 4 X 2 (2001 - 2009)
- > Workhorse W24 4 X 2 (2004 - 2009)

**TOOLS REQUIRED**

- > Floor Jack
- > Jack Stands
- > Wheel Chocks
- > 9/16" Wrench
- > 3/4" Wrench
- > Drill & 3/8" Drill Bit

**PARTS LIST**

Item	Part #	Description	QTY
A	511401	SumoSpring	2
B	512044	Upper Bracket Driver Side	1
	512041	Upper Bracket Passenger Side	1
C	512040	Lower Bracket	2
D	512047	U-Bracket Strap	2
E	512207	3/8-16 x 3/4" Serrated Flange Hex Bolts	4
F	512245	3/8-16 x 7/8" FHCS	2
G	512247	3/8-16 x 4" Carriage Bolts	4
H	512252	3/8-16 x 1 3/4" Hex Bolt	2
I	512253	1/2-16 x 1 1/2" Hex Bolt	2
J	512227	3/8 Flat Washer	8
K	112164	1/2" Top-Lock Nut	2
L	112130	1/2" Steel Washer	4
M	512234	3/8-16 Top-Lock Nut	6



**DRIVER SIDE (PASSENGER SIDE SIMILAR)**

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. Park vehicle on level hard surface. Engage emergency brake. Place chocks in front and behind rear wheels to prevent rolling. Observe all safety precautions and wear safety glasses.
2. Raise rear of vehicle allowing the axle to hang freely. Support the frame using safety jack stands.
3. Remove the factory bump-stops and set aside for re-installation. Remove 8mm hex screw from underside of the frame where 3/8-16 x 1 3/4" Hex Bolt [ITEM H] will be installed. Using the drill with the 3/8" drill bit open bigger the hole from which the 8mm screw was removed.
4. Remove the Upper Frame Bracket [ITEM B] and place it against the chassis frame just forward of the axle with the large 0.62" hole in the bracket aligned with the large existing hole in the side of the frame (see diagram) and the slot in the horizontal plate of the bracket aligned with the hole in the bump-stop bracket from which the bump-stop was removed.
5. Re-insert the factory bump-stop through the horizontal slot in the bracket and attach to the factory bump-stop bracket using nut and washer previously removed (see diagram).
6. Attach the bracket to the side of the chassis frame using a 1/2-16 x 1 1/2" Hex Bolt [ITEM I], a 1/2" Top-Lock Nut [ITEM K], and 1/2" Steel Washers [ITEM L]. Likewise attach the bracket to the underside of the frame using a 3/8-16 x 1 3/4" Hex Bolt [ITEM H], 3/8-16 Top-Lock Nut [ITEM M], and 3/8 Flat Washers [ITEM J].
7. Attach the Lower Bracket [ITEM C] to the bottom of the Sumospring [ITEM A] using a 3/8-16 x 7/8" FHCS [ITEM F]. Orientate the Lower Bracket as per the diagram ensuring that the Sumospring is positioned closest to the wheel relative to the slot in the Lower Bracket and tighten the cap-screw. Install the Sumospring/Lower Bracket assembly and attach to the Upper Bracket using two 3/8-16 x 3/4" Serrated Flange Hex Bolts [ITEM E].
8. Lower the jacks allowing the Lower Bracket to sit firmly on the factory spring-pack. Drop the two 3/8-16 x 4" Carriage Bolts [ITEM G] into the Lower Bracket. Attach the U-Bracket Strap [ITEM D] and secure the 3/8-16 Top-Lock Nuts [ITEM M] and M10 Flat Washers [ITEM J].
9. We have an optional hole to attach to the side of the frame below the 1/2-16 connection in case the connection to the underside of the frame is obstructed and not possible. This would require a hole to be drilled into the side of the frame to accommodate the 3/8-16 bolt that would have been installed in the underside of the frame.
10. Repeat steps 3 through 7 on the other side of the vehicle.
11. Jack up vehicle, remove safety jack stands. Carefully lower vehicle to the hard surface. Remove the chocks in front and back of the rear wheels. Release emergency brake.
12. Register the warranty for your SuperSprings International part. A warranty card can be found in the box your part came in.

**Part Number: SSR-280-54-1**

**Product Line: SUMOSPRINGS REAR**

**Page 2**

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