

PART NUMBER  
**SSA55**

**SuperSprings®**

SCAN HERE: To watch a video of this installation



**BEFORE YOU BEGIN**

**TOOLS REQUIRED**

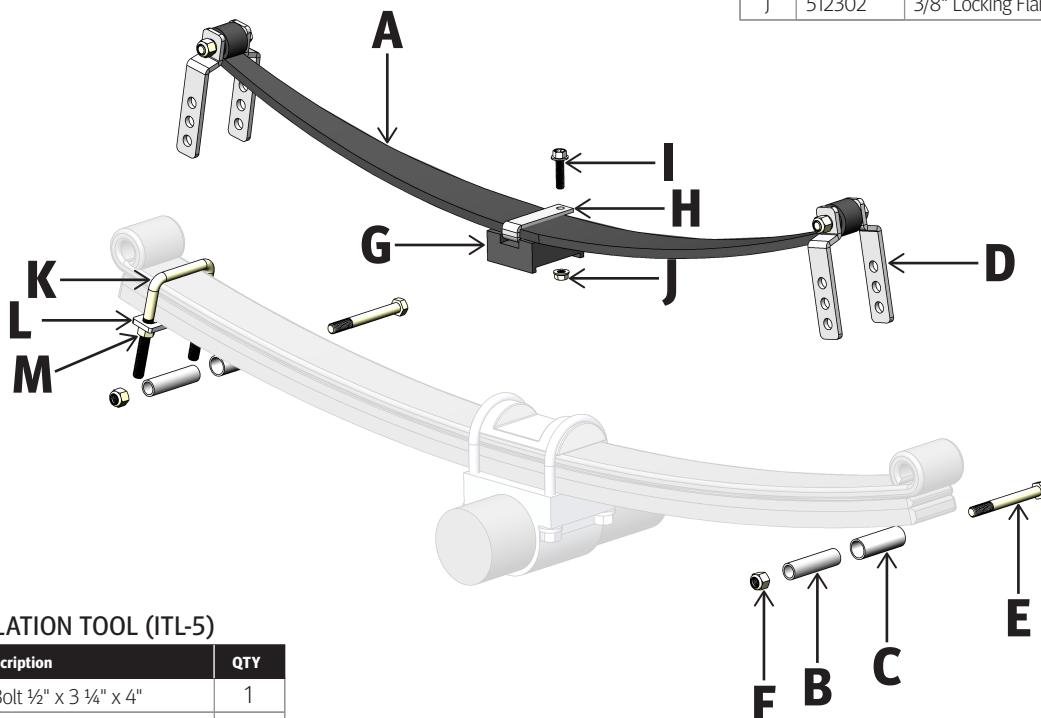
- > Floor Jack
- > Safety Jack Stands
- > Wheel Chocks
- > 3/4" Wrench/Sockets
- > 9/16" Wrench/Sockets
- > SuperSpring Installation Tool or C-Clamp

**PRIMARY APPLICATIONS**

- > Dodge Sprinter 2500 4 X 2 (2004 - 2009)
- > Freightliner Sprinter 2500 4 X 2 (2002 - 2020)
- > Mercedes-Benz Sprinter 2500 4 X 2 (2010 - present)
- > Mercedes-Benz Sprinter 2500 4 X 4 (2016 - present)

**PARTS LIST**

Item	Part #	Description	QTY
A	102011	SuperSpring SSA55	2
B	112129	Steel Sleave	4
C	112176	Steel Roller	4
D	122414	Shackle Plate	8
E	112125	1/2"-13 x 5" Hex Bolt	4
F	112126	1/2"-13 Lock Nut	4
G	PSP-8	Polyurethane Spring Pad	2
H	112251	Spring Clamp	2
I	512301	3/8"-16" x 1-1/2" Flange Bolt	2
J	512302	3/8" Locking Flange Nut	2



**DRIVER SIDE (PASSENGER SIDE SIMILAR)**

**INCLUDED INSTALLATION TOOL (ITL-5)**

Item	Part #	Description	QTY
K	112202	U-Bolt 1/2" x 3 1/4" x 4"	1
L	112203	Cross Plate	1
M	512370	1/2"-13 Hex Nut	2

**Part Number: SSA55**

**Product Line: SUPERSPRINGS**

**Page 1**

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.

PART NUMBER  
**SSA55****SuperSprings®****INSTALLATION**

1. Park the vehicle on a hard, level surface and engage the emergency brake and turn on ignition. Place chocks in front and behind wheels to prevent rolling. Observe all safety precautions and wear safety glasses.
2. Raise the rear of vehicle to allow the axle to hang freely and support the frame using safety jack stands. Removal of the wheel is optional, but will make installation easier.

**NOTE:** Refer to the diagram on page 1.

**NOTE:** On 2500 models with two leafs there may be rubber blocks mounted on top of the leaf pack. The removal of these two blocks is required. The blocks are lightly clamped to the top leaf spring and need to be tapped or pried off.

3. Place PSP-8 pad [ITEM G] on the spring-plate between the factory u-bolts with steel channel facing up as in the diagram.
4. Prepare the SuperSpring for installation by removing the Hardware [ITEMS E & F] and rollers [ITEMS B & C] from the end of each shackle.
5. Place the SSA55 SuperSpring [ITEM A] so it is resting on the PSP-8 [ITEM G] above the factory leaf pack. Ensure that the threads of the spring eye bolts are facing outboard away from the frame.
6. Slide the Spring Clamp [ITEM H] around the SuperSpring and through the steel channel of the PSP-8 from the outboard side so the holes are inboard.
7. Insert the 3/8-16 x 1-1/2" Flange Bolt [ITEM I] down through the two holes of the Spring clamp and install the 3/8" Locking Flange Nut [ITEM J] leaving it loose for now.
8. Adjust the position of the SuperSpring front to back so that the leading edge of the SuperSpring is just behind the front spring hanger enclosure.

**NOTE:** Where the brake line passes from the axle to the caliper, it should be positioned below the SuperSpring and above the factory leaf pack.

9. Rotate the legs of the front and rear shackles downward so one is on each side of factory leaf pack.

Part Number: SSA55	Product Line: SUPERSPRINGS	Page 2
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**10.** Starting at the front, on multi-leaf spring packs, place the Square U-bolt [ITEM K] over the factory leaf pack just behind the shackle position. Place the Cross Plate [ITEM L] under the factory leaf pack and onto the legs of the Square U-bolt and install a  $\frac{1}{2}$ "-13 Hex Nut [ITEM M] on each leg of the Square U-bolt. Evenly tighten the nuts so that the leaf pack is clamped together tightly. For single leaf applications disregard this step.

**11.** Pull the front shackle down (Large C-clamp or SuperSprings installation tool may be needed) until the bottom hole of the shackle leg is below the factory spring pack. Place the Steel Sleeve [ITEM B] into the Steel Roller [ITEM C] and position between the shackle legs. Insert the  $\frac{1}{2}$ "-13 x 5" Hex Bolt [ITEM E] into the bottom hole of the inner shackle leg, through the Steel Sleeve, and out the bottom hole of the outer shackle leg so the threads are pointed outboard, away from the frame. Thread on the  $\frac{1}{2}$ -13 Nyloc Nut [ITEM F] and torque to 35 ft. lbs.

**NOTE:** If more preload or clearance is desired, the rollers and hardware may be installed in the middle or upper holes. The center hole is most commonly used.

**12.** Remove the ITL-5: Square U-bolt, Cross Plate, and  $\frac{1}{2}$ " Hex Nuts from the factory leaf pack and reinstall on the rear.

**13.** Using a heavy-duty clamp or SuperSprings installation tool, compress the rear of the SuperSpring and attach the rear shackle in the same way as the front. The shackle center or upper hole is most commonly used.

**14.** Remove the ITL-5: Square U-bolt, Cross Plate, and  $\frac{1}{2}$ " Hex Nuts from the factory leaf pack.

**15.** Ensure that there is adequate clearance of the SuperSprings in all areas. If any clearance issues are found, adjust the spring front to back or increase the pre-load on the shackles by using one of the upper holes.

**16.** Tighten the PSP and Spring Clamp hardware [ITEMS I & J].

**17.** Repeat steps 3 through 16 on the other side of the vehicle.

**18.** Lower the vehicle and remove all jacks and chocks. Recheck installation to confirm proper clearance of the SuperSprings to all AC lines, brake lines, body, and chassis components.

**19.** Register the warranty for your SuperSprings International part. A warranty card can be found in the box your part came in.

**Part Number: SSA55****Product Line: SUPERSPRINGS****Page 3**

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