

# **SuperSprings®**

## **International, Inc.**

### **Installation Instructions**

For easy installation, you will need to:

- READ ALL the instructions completely before beginning.
- Have the necessary tools available

**SAFETY NOTICE:** WE RECOMMEND THAT THIS INSTALLATION BE DONE BY A PROFESSIONAL OR PERSONS WITH SOUND MECHANICAL KNOWLEDGE.

**SUPERSPRINGS** are designed to work in conjunction with original equipment (factory) springs only. Please consult SuperSprings factory (866-898-0720) if original springs have been replaced with an after-market product.

**WARNING:** These instructions are meant to be a general guide for installing SuperSprings. SuperSprings International assumes no liability for the actual installation process. Consumers should apply common automotive safety practices when raising and working on any vehicles. Do NOT put yourself in a position where if the vehicle should move unexpectedly, you may be seriously hurt. SuperSprings are designed to improve vehicle carrying capacity and road handling. Do NOT load any vehicle beyond the manufacturer's specifications.

#### **LIMITED WARRANTY**

See separate warranty information page.

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***Prior to installation ensure the following steps have been taken:***

***Vehicle must be on level solid surface.***

***Parking brake ON - Ignition OFF.***

***Place blocks in front and rear of the front tires to prevent the vehicle moving.***

#### ***During and / or after installation***

***Ensure emergency brake cables are not touching the SuperSprings blade(s). Secure them out of the way with zip ties or by re-routing. Avoid all air conditioning lines, all fuel filler hoses and all brake lines or cables. Position the SuperSprings so there is sufficient clearance from any frame contact both horizontally and vertically. Also, where applicable, the ends (eye) of the SuperSprings must avoid contact with any factory overload spring perch or bracket.***

Installation Instructions  
SuperSprings Model # SSA47

**The SSA47 has a designated front and rear. The shackle with 3 lower holes must go toward the front and the threads of the bolts must be facing away from the frame.**

**Step 1:** Vehicle must be on a solid, level surface. Ensure emergency brake is ON and Ignition is OFF. Place blocks in front and rear of the front tires to prevent the vehicle moving.

**Step 2:** Raise vehicle so that rear wheel(s) is slightly off the ground. Support vehicle with jack stands securely under the frame. You may remove the wheel for easier installation access but it is not required.

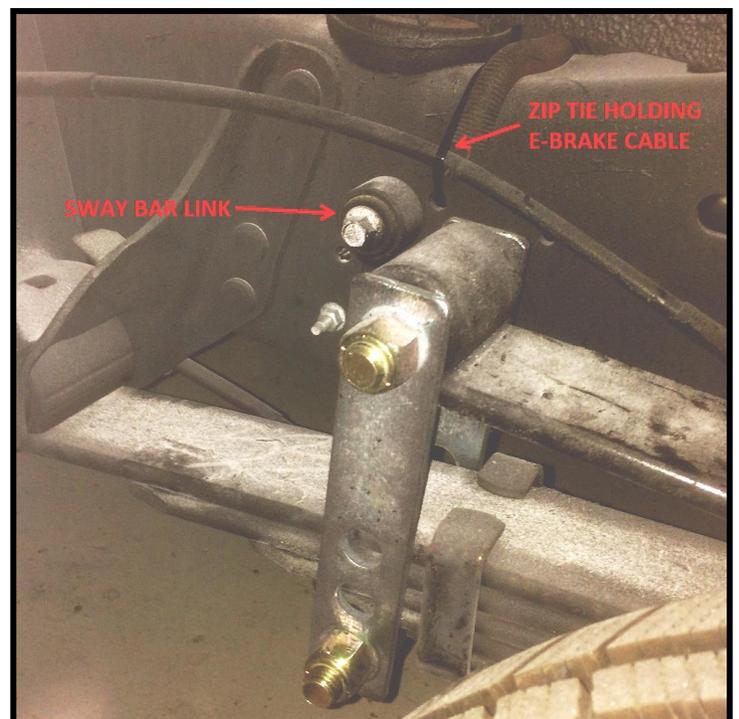
**Step 3:** Place PSP-11 on top of factory spring plate as shown with the groove toward the front of the vehicle. Place lockdown kit u-bolt in the groove on TOP of the PSP-11. Slip SuperSpring through wheel well or slide in from behind vehicle, positioning it on top of the PSP-11. Position lockdown kit u-bolt with the threads pointing up, install the clamp and thread nuts lightly onto u-bolt. Adjust SuperSpring so that the spring eye is 12-3/8" ahead of the lock down cross plate (see pictures below)



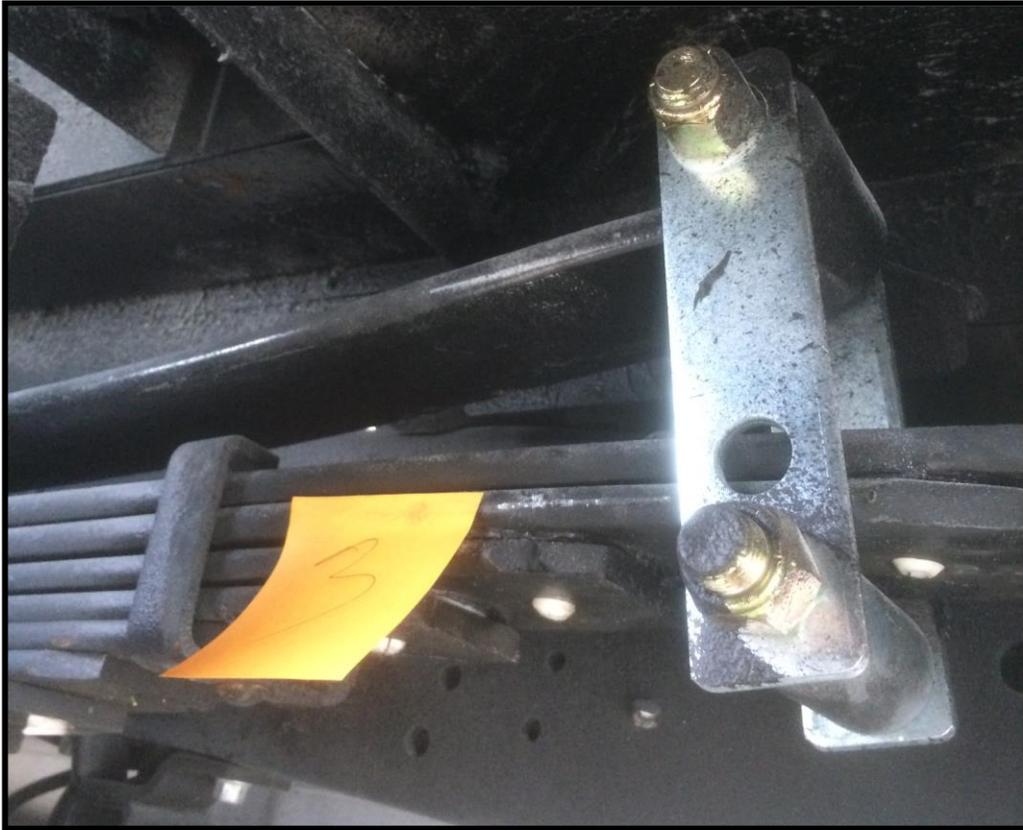
**Step 4:** Position the shackle on the front of the SuperSpring so that it is directly behind the sway bar link. (see picture at right). **Ensure head of upper shackle bolt is clear of sway bar link!**

Using a heavy duty C-clamp or Supersprings installation tool pull the front shackle legs down around the factory leaf springs and install the steel sleeve, roller, and bolt. Tighten roller bolts and nuts hand tight so hardware is snug. Ensure all A/C lines and brake cables are clear of interference. Where additional lift or more vertical clearance is required, use one of the shackle upper bolt hole positions. In other cases, use the shackle lower bolt hole position.

**Step 5:** Use a zip tie to hold the E-brake cable tight to the frame so that it will not come into contact with the SuperSpring. (see picture at right)



**Step 6:** Using a heavy duty C-Clamp or SuperSprings installation tool, pull down the rear shackle. Attach rear shackle with bolt, sleeve and roller (as in #4 above) and tighten. NEVER TIGHTEN TOP BOLTS ON ANY OF THE SHACKLES. (see picture below)



**Step 7:** Check final alignments. Springs do not have to be centered on mounting pad over axle. Position rear shackles to provide rear rollers with  $\frac{3}{4}$ " to 1" forward clearance from any obstacles. Recheck that no A/C lines or brake cables will be interfered with by the vertical travel of the SuperSprings.

**Step 8:** Once the spring is in the proper position, securely tighten down the nuts on the lockdown clamp.

**Step 9:** Repeat the same process on the other side of vehicle.

**Step 10:** Lower the vehicle and remove jack and blocks.

**Step 11:** Recheck installation to ensure that all a/c lines, brake cables and truck frame will not interfere with the vertical travel of the SuperSprings.