

SuperSprings®

Installation Instructions

For easy installation, you will need to:

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

Tools required:

- 1 – 1 1/16" wrench / socket
- 1 – 1 1/8" wrench / socket
- 1 – Sturdy Clamp

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

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.

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 # SSA23 & SSA24

The SSA23 & SSA24 springs do not have a specific left/right or front/rear. Unless specified otherwise install springs with bolt threads facing outward.

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 on top of factory spring plate so that it locates on center bolt and spring pad as shown. Place lockdown kit u-bolt in the groove of the PSP. Slip SuperSpring through wheel well or slide in from behind vehicle, positioning it on top of the PSP. Position lockdown kit u-bolt with the threads pointing up, install the clamp and thread nuts lightly onto u-bolt.

Position the SuperSprings so there is sufficient clearance from any frame contact both horizontally and vertically.

Step 4: Ensure all A/C lines and brake cables that might be damaged by SuperSpring blades are clear of interference. Where additional lift or more vertical clearance is required, use the shackle upper bolt hole position. In other cases use the lower bolt hole. Attach front shackle to factory leaf springs using bolt, steel roller and sleeve. Tighten roller bolts and nuts hand tight so hardware is snug. No heavy torque required.

Step 5: Using a heavy duty C-Clamp or SuperSprings installation tool, pull down rear shackle. Attach rear shackle with bolt, sleeve and roller (as in #4 above) and tighten. Don't over-tighten nuts. NEVER TIGHTEN TOP BOLTS ON ANY OF THE SHACKLES.

Step 6: Check final alignments. Springs do not have to be centered on mounting bracket over axle. Position springs shackles to provide rear rollers with ¾" to 1" forward clearance from any obstacles. Front rollers only require ¼" clearance in either direction. Recheck that no A/C lines or brake cables will be interfered with by the vertical travel of the SuperSprings.

Step 7: Once the spring is in the proper position, securely tighten down the nuts on the lockdown clamp.

Step 8: Repeat the same process on the other side of vehicle.

Step 9: Lower the vehicle and remove jack and blocks.

Step 10: Recheck installation to ensure that all a/c lines, brake cables and truck frame will not interfere with the vertical travel of the SuperSprings.

SuperSprings®

Suspension Enhancement

GM 3500HD Chassis Cab [2001 ~ present]

SuperSprings Part# SSA23 ~ SSA24 with PSP mounting kit



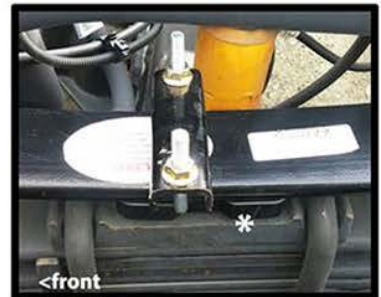
Typical PSP Mounting Kit Installation



PSP 19 with hold-down clamp assembly



Place PSP 19 on top of spring plate flat side up facing, with groove toward the front



Install the SuperSprings as pictured below, then thread the channel crossplate on to the ubolt. Tighten securely.



trim tab flush for roller



adjustable pre-load & ride height

SuperSprings®

Suspension Enhancement

GM 3500 Chassis Cab [2001 ~ present]

SuperSprings Part# SSA23 ~ SSA24 with PSP mounting kit



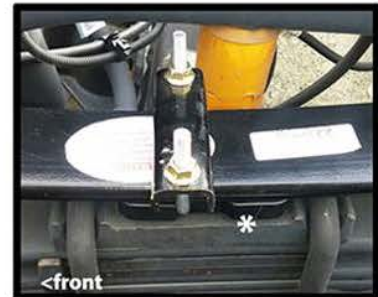
Typical PSP Mounting Kit Installation



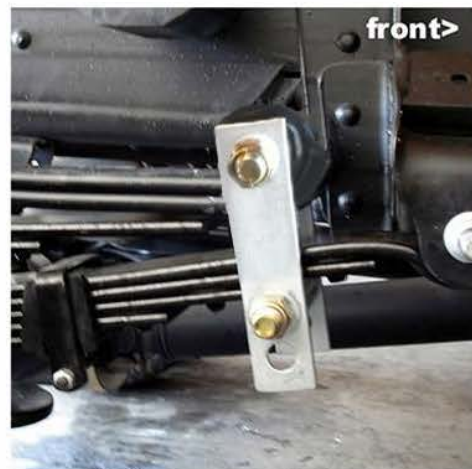
PSP 19 with hold-down clamp assembly



Place PSP-19 on top of spring plate
flat side up facing, with groove
toward the front



Install the SuperSprings as pictured
below, then thread the channel crossplate
on to the ubolt. Tighten securely.



front & rear ~ mount with spring eye bolt threads out
front ~ adjustable preload
rear~ remove bolted factory overload perch for bottom shackle hole use

SuperSprings®

Suspension Enhancement

**GM 3500HD SRW~Dually Pickup [2002 ~ 2010]
with factory overload**

SuperSprings Part# SSA23 ~ SSA24 with PSP mounting kit



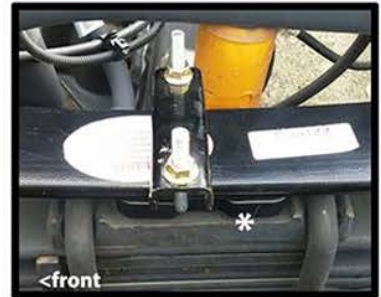
Typical PSP Mounting Kit Installation



PSP 19 with hold-down clamp assembly



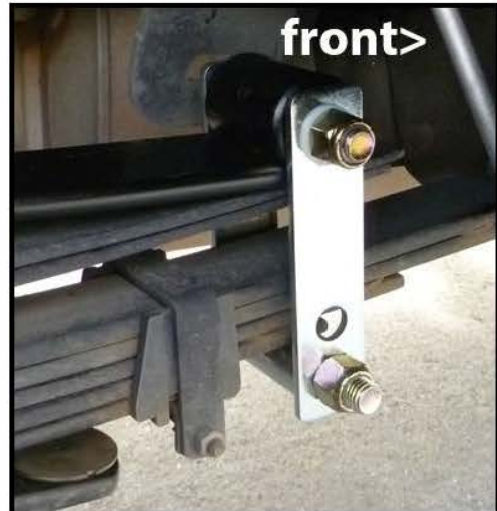
Place PSP 19 on top of spring plate
flat side up facing, with groove
toward the front



Install the SuperSprings as pictured
below, then thread the channel crossplate
on to the ubolt. Tighten securely.



<rear



front>

Adjustable preload and ride height

SuperSprings®

Suspension Enhancement

Dodge 2500HD Pickup [2003 ~ 2007]

with factory overload

Dodge 3500HD Pickup [2003 ~ present]

with or without factory overload

SuperSprings Part# SSA23 ~ SSA24 with PSP mounting kit



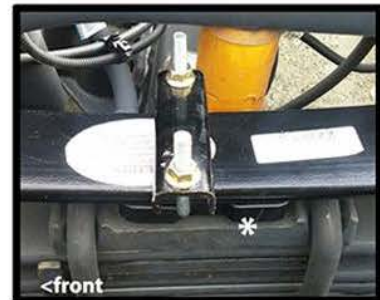
Typical PSP Mounting Kit Installation



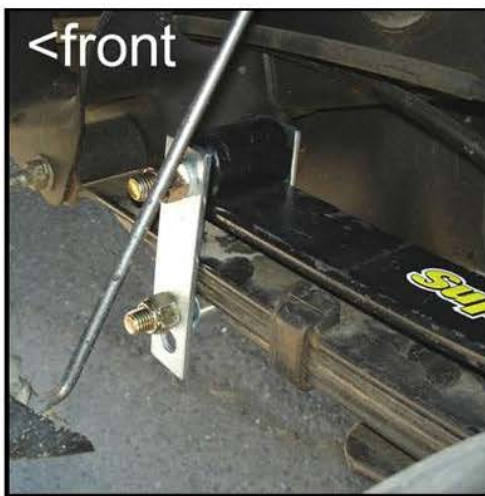
PSP-19 with hold-down clamp assembly



Place PSP-19 on top of spring plate
flat side up facing, with groove
toward the front



Install the SuperSprings as pictured
below, then thread the channel crossplate
on to the ubolt. Tighten securely.



Adjustable preload and ride height front/rear

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Suspension Enhancement

Dodge 3500HD Chassis Cab [2007 ~ present]

with factory overload

SuperSprings Part# SSA23 ~ SSA24 with PSP mounting kit



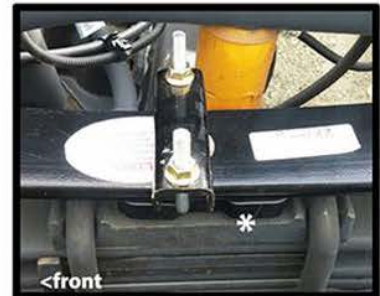
Typical PSP Mounting Kit Installation



PSP 19 with hold-down clamp assembly



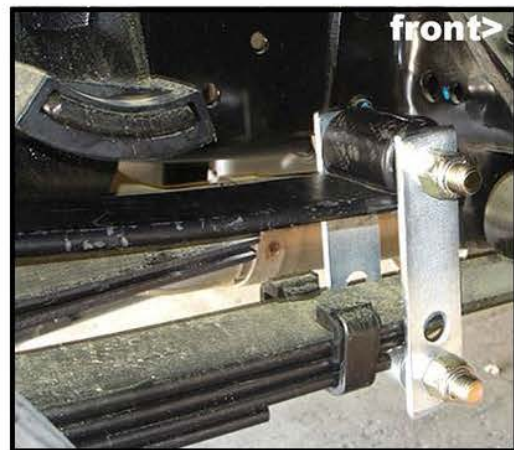
Place PSP 19 on top of spring plate
flat side up facing, with groove
toward the front



Install the SuperSprings as pictured
below, then thread the channel crossplate
on to the ubolt. Tighten securely.



Trim shackle length ~ Use upper hole



Adjustable pre-load & ride height

SuperSprings®

Suspension Enhancement

Dodge 4500/5500 Chassis Cab [2007 ~ present]

SuperSprings Part# SSA23 ~ SSA24 with PSP mounting kit



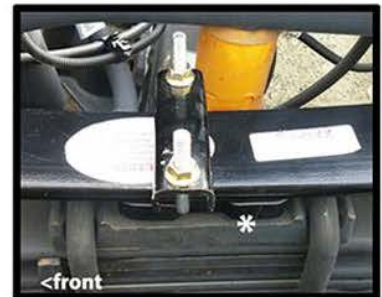
Typical PSP Mounting Kit Installation



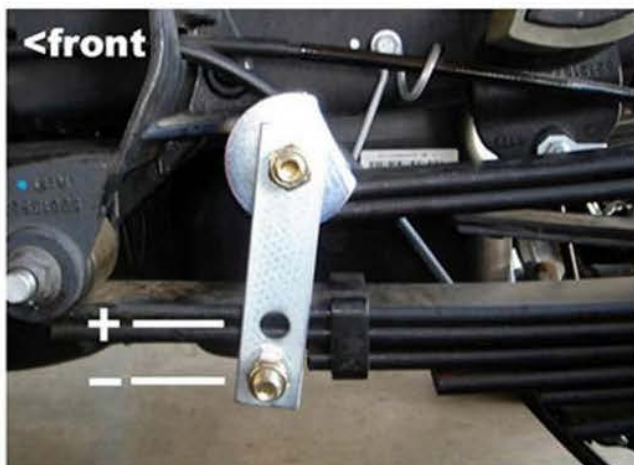
PSP 19 with hold-down clamp assembly



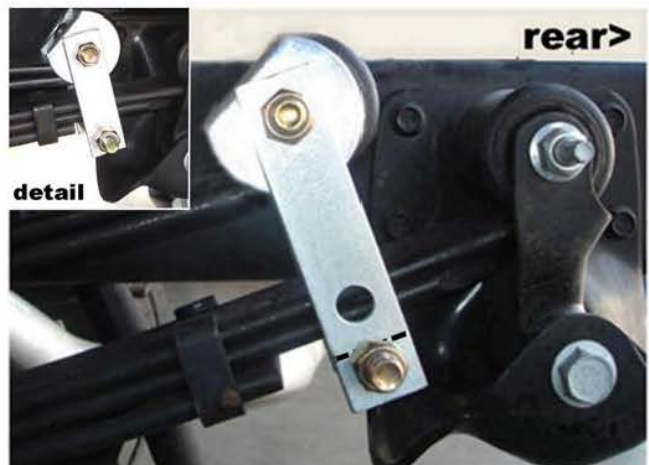
Place PSP 19 on top of spring plate flat side up facing, with groove toward the front



Install the SuperSprings as pictured below, then thread the channel crossplate on to the ubolt. Tighten securely.



Adjustment for preload & ride height



trim rear shackle to use upper bolt location

SuperSprings®

Suspension Enhancement

Ford F-250 ~ F-350 Pickup [2008 ~ 2010]

with factory top overload

SuperSprings Part# SSA23 ~ SSA24 with PSP mounting kit



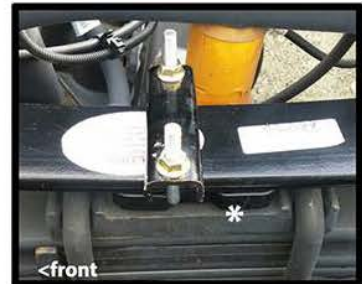
Typical PSP Mounting Kit Installation



PSP 7 with hold-down clamp assembly



Place PSP 7 on top of spring plate flat side up facing, with groove toward the front



Install the SuperSprings as pictured below, then thread the channel crossplate on to the ubolt. Tighten securely.



Adjustable spring pre-load & ride height



Front & Rear ~ mount spring with eye bolt threads out

SuperSprings®

Suspension Enhancement

Ford F450 Pickup [2011 ~ present]

SuperSprings Part# SSA23 ~ SSA24 with PSP mounting kit



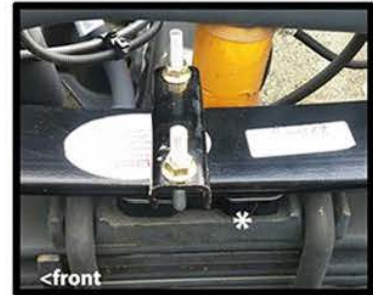
Typical PSP Mounting Kit Installation



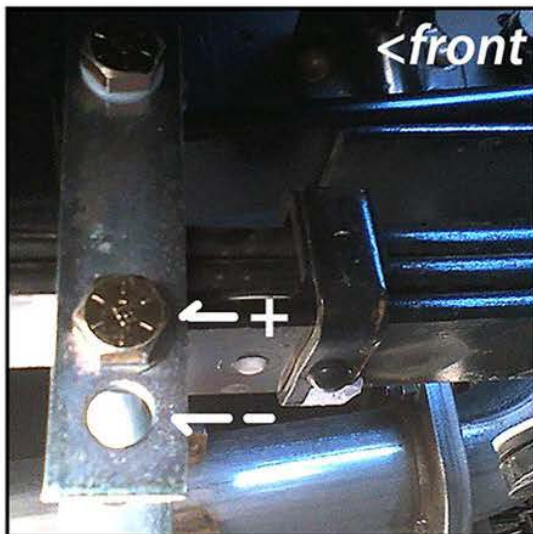
PSP-19 with hold-down clamp assembly



Place PSP-19 on top of spring plate flat side up facing, with groove toward the front



Install the SuperSprings as pictured below, then thread the channel crossplate on to the ubolt. Tighten securely.



Front Shackle installation



Rear Shackle installation