Installation Instructions
MTKT, MXKT and MTKT-Extended

- From the box remove the black metal W-brackets, u-bolts and the plastic bag containing the hardware.
- Installation begins by lifting the vehicle. Place the jack on chassis/frame member - not the axle or differential.
- Raise one or both sides of vehicle so that rear wheel(s) is slightly off the ground. Support vehicle chassis frame with jack stands.
- You may remove the wheel for easier installation access but it is not required.
- Place mounting W-bracket (from separate white box) on top of factory springs directly above axle, straddling the factory spring plate.
- Using U-bolts & hardware supplied, attach mounting bracket to factory springs. Secure tightly with wrench.

**Ford Ranger 2010 ~ 2012:**

- SSA30 and SSA31 include a different MT.KT with an extended W-bracket to avoid the sensor on the OEM disc brakes.
- Install the SuperSprings on top of the mounting kit.
- To install the hold-down clamp lower the vehicle to the ground.
- Clamp does not have to be centered on spring.
- Bolt one side of the clamp plates together. Slide crossplate over SuperSpring and under mounting bracket. (Use shorter bolt for single leaf and longer bolt for double leaf.)
- Attach bolt, washer and nut to the opposite side and secure tightly with wrench.
- **NOW SECURELY RETIGHTEN ALL U-BOLT NUTS. AFTER 200-500 MILES RETIGHTEN U-BOLTS AGAIN.**
Mounting Kit Parts

Hold-Down Clamp Installation
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.

*Mounting kits sold separately.
Installation Instructions
SuperSprings Model # SSA13 & SSA16

The SSA13 & SSA16 springs have a specific left and right. Unless specified otherwise install springs with bolt threads facing outward. They also have a specific front and rear.

**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:** When a mounting kit (MTKT* or MXKT*) is called for:
Place mounting kit bracket on top of factory springs directly above axle. Attach mounting bracket to factory springs with U-bolts, cross plates, and nuts. Securely tighten hardware. After 300-500 miles check and retighten hardware as necessary. Slip SuperSpring through wheel well or slide in from behind vehicle, positioning it on top of mounting bracket. Go to step 5.

**Step 4:** Where factory springs are above the axle and PSP (poly spring pad) is used:
For applications with or without factory top overload leafs. Refer to application specific pages to determine which PSP to use for your vehicle. 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 nuts and tighten securely.

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

**Step 5:** 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. Attatch bolt on front shackle using both polypropylene (black) rollers and steel sleeve. Tighten roller bolts and nuts hand tight so hardware is snug. No heavy torque required.

**Step 6:** Using C-Clamp, pull down rear shackle. Some installations will not require use of clamp. Attatch bolt on back shackle (as in #6 above) and tighten. Don’t over-tighten nuts. NEVER TIGHTEN TOP BOLTS ON ANY OF THE SHACKLES.

**Step 7:** Where MTKT or MXKT are used, install Hold-down Clamp to secure spring to mounting bracket. Clamp does not have to be centered on spring. Bolt one side of the clamp together. Slide crossplates over SuperSpring and under mounting bracket. Attach bolt, washer and nut to the opposite side and secure tightly with wrench.

**Step 8:** Check final alignments. Springs do not have to be centered on mounting bracket over axle. Position springs shackles to provide rear rollers with ¼” to 1” forward clearance from any obstacles. Front rollers only require ½” 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 9:** Repeat the same process on the other side of vehicle.

**Step 10:** Lower the vehicle and remove jack and blocks. Where MTKT/MXKT are used, ensure u-bolt nuts are tight.

**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.

**Step 12:** NOW SECURELY RETIGHTEN ALL U-BOLT NUTS. AFTER 200-500 MILES RETIGHTEN U-BOLTS AGAIN.

*Mounting kits sold separately.*
SuperSprings®
Suspension Enhancement
GM 2500HD Pickup [2011 ~ present]
(without top factory overload)

SuperSprings Part# SSA13 ~ SSA16 with MXKT

Position rear shackle to avoid frame support bracket & provide 1" forward roll clearance of spring roller

Front & rear adjustable preload.
GM 3500 Savana ~ Express Cutaway [1996 ~ present]
SuperSprings Part# SSA13 ~ SSA16
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.

Square shackle to the rear
Spring preload & ride height
SuperSprings®
Suspension Enhancement
GM 3500HD Pickup (Single Rear Wheel Only) [2011 ~ present]
SuperSprings SSA13 / SSA16 with PSP mounting kit

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.

SSA13 installed

SSA16 installed heavily loaded

truck bed support bracket

overload spring bracket

truck bed support bracket

Overload spring bracket
Supersprings®
Suspension Enhancement
with or without top factory overload
Supersprings Part# SSA13 ~ SSA16 with PSP mounting kit

Typical Center PSP mounting kit installation

Adjustable pre-load and ride height [fnt/rear]
Ford F-250 F-350 Super Duty [2011 ~ present] without factory top overloads
SuperSprings Part# SSA16 ~ SSA13 with PSP-7 & Spring Lock-Down Kit

SuperSprings installation hardware:
- "Poly Spring Pad Mounting Kit"
- Spring Lock-Down Kit

Vehicle center spring plate above axle
Poly Spring Pad

OE brake cable placement 2014–present

Modification for SuperSprings installation

On the driver’s side the gas tank shield restricts the installation. Before installation remove the front shackle bolt. Position the spring on top of the mounting kit. Reinstall the shackle with the threads facing inward at the top and facing outward at the bottom, to avoid the threaded ends of the bolts from conflicting with the gas tank protective shield.

All models install driver side front shackle spring eye bolt threads inward.

Adjust pre-load & ride height.

Install with square shackles to the rear.
Installation Instructions

For easy installation, you will need to:
• READ ALL the instructions completely before beginning.
• Have the necessary tools available

Tools required:
• 3/4” wrenches/sockets
• 1/2” wrenches/sockets
• 1 - C-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.

*Mounting kits sold separately.
Installation Instructions
SuperSprings Model # SSA7

The SSA7 springs have a specific left and right. Unless specified otherwise install springs with bolt threads facing outward. The springs do have a specific front and rear. Please check the SuperSprings website or included application sheet for your vehicle front/back configuration.

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: Where factory springs are located below the axle:
Slip SuperSpring over the wheel or slide in from behind, and position it on top of the axle directly over the factory springs. Go to Step 6.

Step 4: When factory springs above the axle and a mounting kit (MTKT* or MXKT*) is called for:
Place mounting kit bracket on top of factory springs directly above axle. Attach mounting bracket to factory springs with U-bolts, cross plates, and nuts. Securely tighten hardware. After 300-500 miles check and retighten hardware as necessary. Slip SuperSpring through wheel well or slide in from behind vehicle, positioning it on top of mounting bracket. Go to Step 6.

Step 5: Where factory springs are above the axle and PSP (poly spring pad) is used:
Refer to application specific pages to determine which PSP to use for your vehicle. Place PSP on top of factory spring plate so that it locates on center bolt and spring pad as shown.

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

Step 6: 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 bolt on front shackle using both polypropylene (black) rollers and steel sleeve. Tighten roller bolts and nuts hand tight so hardware is snug. No heavy torque required.

Step 7: Using C-Clamp, pull down rear shackle. Some installations will not require use of clamp. Attach bolt on back shackle (as in #6 above) and tighten. Don’t over-tighten nuts.

NEVER TIGHTEN TOP BOLTS ON ANY OF THE SHACKLES.

Step 8: Install Hold-down Clamp (Only use on spring above axle assembly with MTKT or MXKT). Clamp does not have to be centered on spring. Bolt one side of the clamp together. Slide crossplates over SuperSpring and under mounting bracket. Attach bolt, washer and nut to the opposite side and secure tightly with wrench.

Step 9: Check final alignments. Springs do not have to be centered on mounting bracket over axle. Position springs shackles to provide rear rollers with ¼” 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 10: Repeat the same process on the other side of vehicle.

Step 11: Lower the vehicle and remove jack and blocks. Where MTKT/MXKT are used, ensure u-bolt nuts are tight.

Step 12: Recheck installation to ensure that all a/c lines, brake cables and truck frame will not interfere with the vertical travel of the SuperSprings.

Step 13: NOW SECURELY RETIGHTEN ALL U-BOLT NUTS. AFTER 200-500 MILES RETIGHTEN U-BOLTS AGAIN.

*Mounting kits sold separately.
SuperSprings®
Suspension Enhancement
GM Astro~ Safari Van
[1996 ~ 2005 w/steel multi-leaf factory springs only]
SuperSprings SSA7 with MTKT

Mounting kit installed

Rear: Use Square 2 hole shackle
Select pre-load, to > use upper hole
SuperSprings®
Suspension Enhancement

GM Colorado / Canyon
Pick-up ~ Cab Chassis [2004 ~2012]
SuperSprings SSA3 / SSA7

non-Z71 factory suspension

Z71 factory suspension

Both part numbers

SSA3

SSA7

_Adhesive backed pads_

Neoprene pads * [included] Adhere

SuperSpring mounts over axle

blade bottom

<center>

w/ SuperSpring mounted

<rear>

trim rear tab

Adjust preload & ride height, select upper shackle hole for heavy applications

front ~ spring eye bolt threads out

front & rear ~ adjustable preload

<front>

Do not trim front tab

select upper shackle hole

square shackle to front

<front>
SuperSprings®
Suspension Enhancement
Dakota 4x4 [1987 ~ 2011]
Dakota 2x4 [2005 ~ 2011]
SuperSprings Part# SSA2 ~ SSA7 with MTKT

Install shackle against the axle side of the last plastic tab

Use upper bolt position in front