

SuperSprings®

Installation Instructions

For easy installation, you will need to:

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

Tools required:

- 2 - 3/4" wrenches
- 2 - 1/2" wrenches
- 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.

Installation Instructions

SuperSprings Models: SSA2; SSA5; SSA6; SSA8; SSA9; SSA30; SSA31

Reference our website installation page for a detailed installation flyer for your specific vehicle:

Front / Rear

The above listed springs do NOT have a specific left or right; front or rear; they will all work in either direction.

Step 1: Positioning the vehicle:

Vehicle must be on level solid 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: Jacking up 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 with jack stands.

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 above the axle. (Fig. 1 - Lower)

Go to Step 5.

Step 4: Where factory springs are above the axle & mounting kit (MTKT) is used:

Place mounting bracket (from separate white box) on top of factory springs directly above axle.

Ford Ranger 2010 ~ 2012:

SSA30 and SSA31 include longer MTKT bracket for avoiding the sensor on the OEM disc brakes.

Using U-bolts & hardware supplied, attach mounting bracket to factory springs.

Slip SuperSpring through wheel well or slide in from behind vehicle, positioning it above MTKT (Fig. 1 – Upper)



(Fig. 1)

SuperSprings do not need to be center over the OE springs. They can be move forward or to the rear to provide 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.

Step 5: Positioning

Note: Springs do not have to be centered on mounting bracket over axle.

Position springs shackles to provide rear rollers with $\frac{3}{4}$ " to 1" forward clearance from any obstacles.

Front rollers only require $\frac{1}{4}$ " clearance in either direction.

Check that no A/C lines or brake cables will be interfered with by the vertical travel of the SuperSprings.

Step 6: Attach front shackle:

Ensure all A/C lines and brake cables that might be damaged by SuperSpring blades are clear. 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 rollers. Don't over-tighten nuts.

Step 7: Attach rear shackle:

The rear shackle roller should be positioned so that there is $\frac{3}{4}$ " to 1" of roll space for the shackle roller to roll toward the axle.

Use C-Clamp and pull down rear shackle. Some installations will not require use of clamp.

Attach bolt on back shackle (as in #5 above) and tighten. Don't over-tighten nuts.

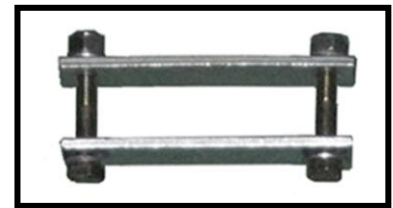
NEVER TIGHTEN TOP BOLTS ON ANY OF THE SHACKLES.

Step 8: Install Hold-down Clamp (Only use on spring above axle assembly with MTKT). Lower the vehicle to the ground to compress the springs onto the mounting bracket.

Clamp does not have to be centered on spring.

Bolt one side of the clamp together. (Use the shorter bolt found in the hardware package of the MTKT). Slide crossplates over SuperSpring and under mounting bracket.

Attach bolt, washer and nut to the opposite side and secure tightly with wrench.



Hold-down clamp assembly

Step 9: Check final alignments

Position springs shackles to provide rear rollers with $\frac{3}{4}$ " to 1" forward clearance from any obstacles.

Front rollers only require $\frac{1}{4}$ " 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 wheel.

Step 11: Lower the vehicle and remove jack and blocks.

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.

SuperSprings®

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

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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 # SSA8

The SSA8 springs do NOT have a specific left/right or front/rear. They will work in either direction.

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 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 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.**

SuperSprings®

Suspension Enhancement

GM 2500 Van [1996 ~ 2013]

SuperSprings Part# SSA8 ~ SSA12 with MTKT

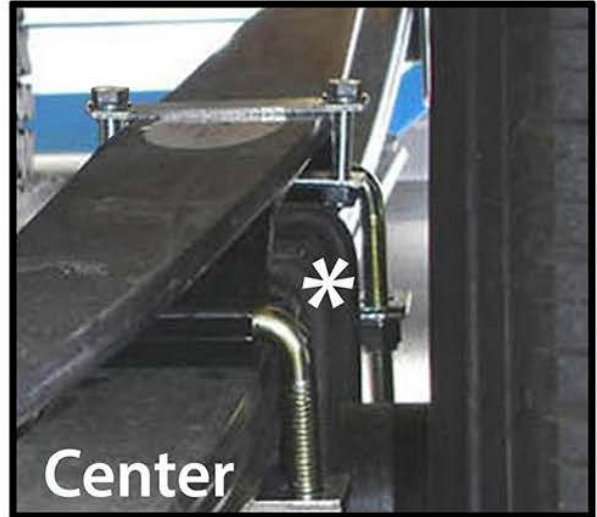
GM 3500 Van [1996-2013]

SuperSprings Part# SSA12 with MTKT



SuperSprings Mounting Kit Part#MTKT

* Mounting Kit Installed →



Center



<rear



front>

SuperSprings®

Suspension Enhancement

Ford F-150

SuperSprings Part# SSA5 with MTKT [1973 ~ 2008]

SuperSprings Part# SSA8 with MTKT [1973 ~ 2003]



MTKT installed



Front shackle install in top hole



Select pre-load and ride height

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Suspension Enhancement

Ford E-250 Van [2006 ~ 2014]

Ford E-350 Van [1972 ~ 2014]

SuperSprings Part# SSA8 ~ SSA12 with PSP-11

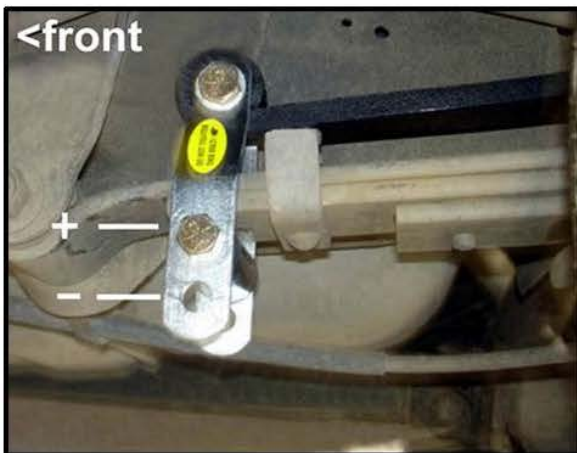
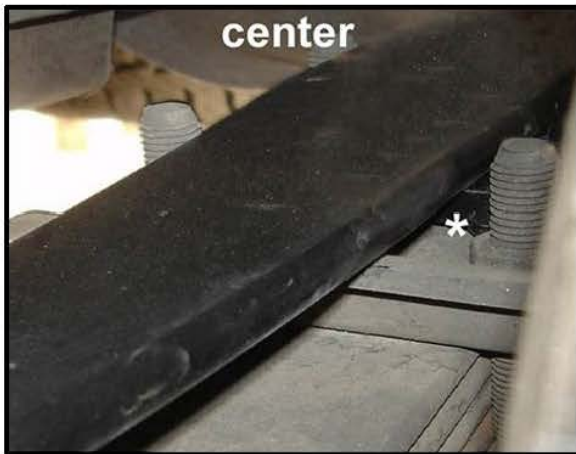
Call factory
to special order
PSP11 for SSA8
installation.



Poly Pad PSP-11



Polyurethane Mounting Base



spring pre-load & ride height



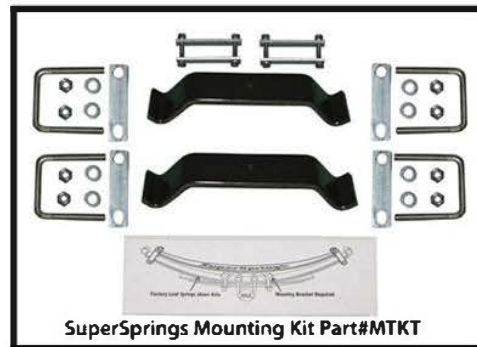
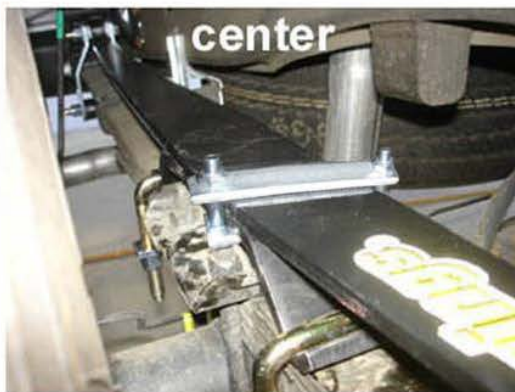
square shackle to the rear

SuperSprings®

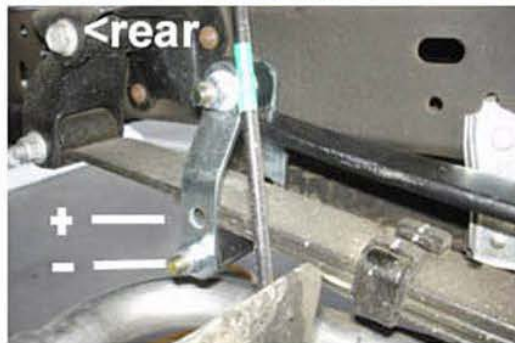
Suspension Enhancement

FORD RANGER [1983 - 2009]

SuperSprings SSA5 or SSA8 w/MTKT



Mounting kit installed



select pre-load and ride height



Front shackle, use upper bolt hole



ensure cables are clear of installation

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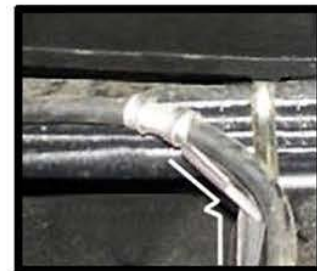
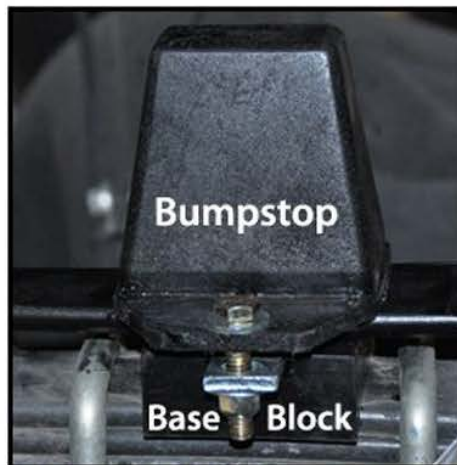
Suspension Enhancement

Toyota Tundra [2007 ~ present]

SuperSprings SSA4 Tundra Solution

Micro-Cellular Polyurethane Progressive Stops
with PSP-4 Mounts

Remove stock
bumpstop



Adjust the cable bracket
so that the brake cable
avoids the
SuperSprings

* Micro-Cellular Polyurethane Stops *



Square one hole shackle to rear



Two hole shackle to front
use upper bolt hole