

PART NUMBER

**K-10-001**



**INSTALLATION VIDEO:** To see a video of these installations, please visit our youtube page - [youtube.com/superspringsinternational](https://youtube.com/superspringsinternational).  
Front - <https://youtu.be/AKhg6VqjOKc> | Rear - <https://youtu.be/dbmfmZU6fFI>

**BEFORE YOU BEGIN**

**APPLICATION(S)**

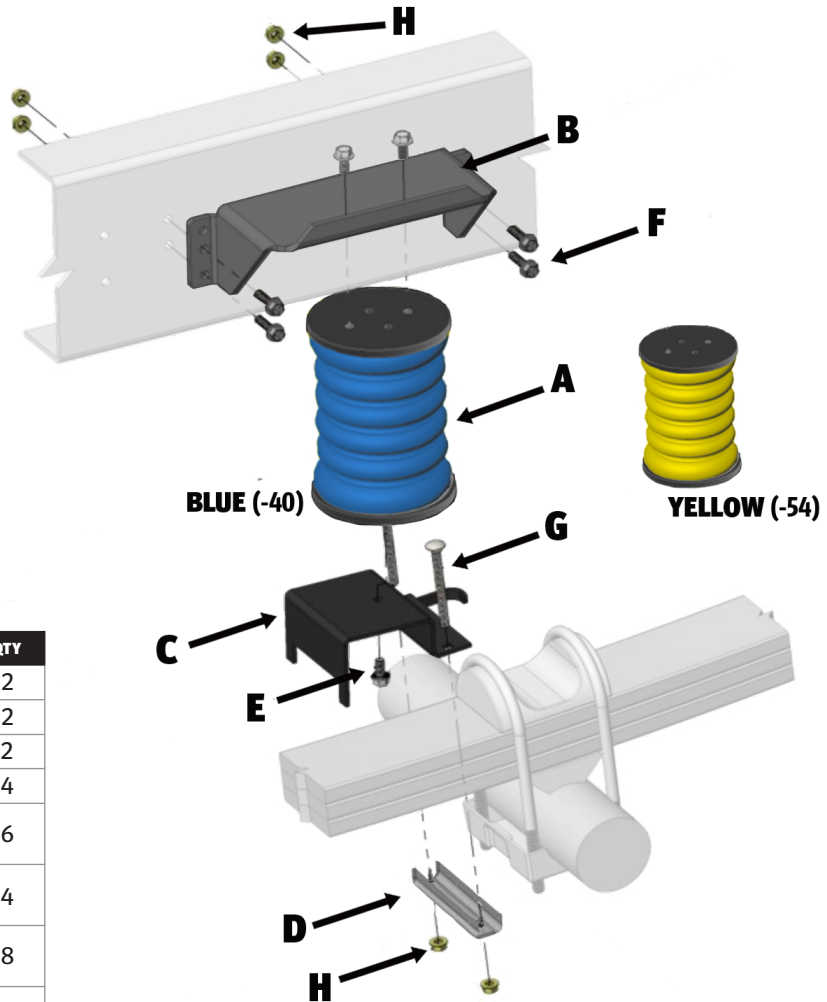
- › Ford F-53, 20--22k (2008 - present)

**TOOLS REQUIRED**

- › Floor jack
- › Safety jack stands
- › 15 & 17mm sockets
- › 9/16 wrench
- › 9/16 socket
- › Ratchet & extensions
- › Drill
- › 7/16" Drill Bit

**REAR PARTS LIST**

Item	Part #	Description	QTY
A	511419	Rebel SumoSprings	2
B	512347	Upper Bracket	2
C	512034	Lower Bracket	2
D	512042	U-bracket Strap	4
E	512207	3/8-16 x 3/4" Serrated Flange Hex Bolt	6
F	512211	3/8-16 x 3.5" Carriage bolts	4
G	512302	3/8-16 Locking flange nut	8
H	512360	3/8-16 x 5.5" Carriage bolts	4



**REAR INSTALLATION**

**Part Number: K-10-001**

**▶ Product Line: SUMOSPRINGS FRONT & REAR**

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**SuperSprings International, Inc.**  
505 Maple Avenue  
Carpinteria, CA 93013  
**Installation Support**  
+1 (800) 898-0705  
support@supersprings.com  
**superspringsint.com**

**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, Inc. 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.** SuperSprings' 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 level surface, the parking brake is ON, with the ignition OFF, and place blocks in front of and behind the front tires to prevent the vehicle from moving.  
**DURING AND/OR AFTER INSTALLATION:** Ensure emergency brake cables are not touching the SuperSprings. 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.**

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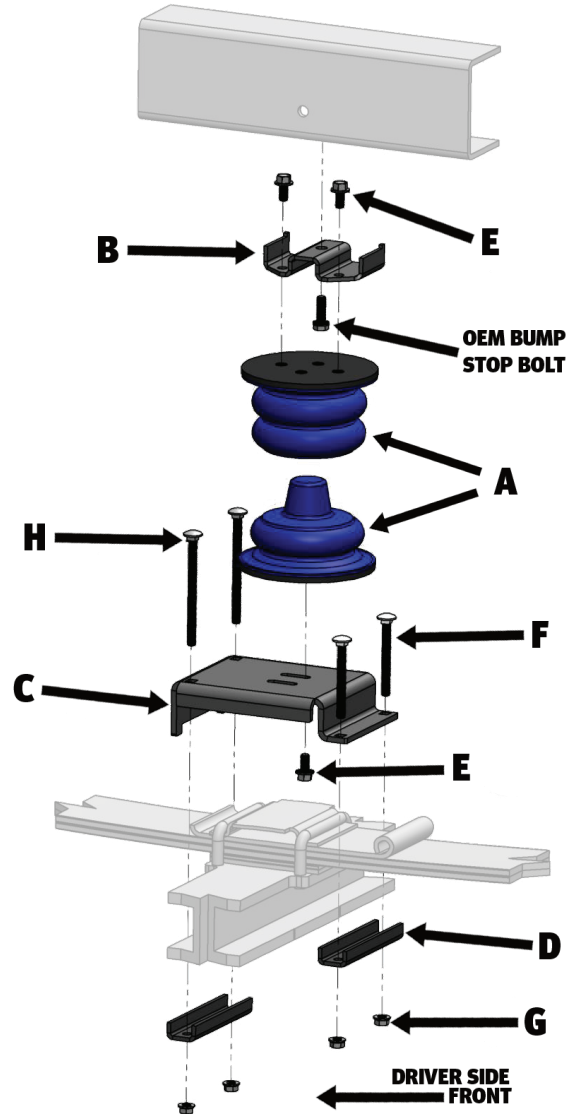
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**BEFORE YOU BEGIN**

Item	Part #	Description	QTY
A	511405 511403	SumoSprings Blue -40 SumoSprings Yellow-54	2
B	512037	Upper frame bracket	2
C	512108	Lower bracket	2
D	512042	U- bracket strap	2
E	512207	3/8-16 x 3/4" Serrated flange hex bolt	6
F	512301	3/8-16x 1.5" Serrated flange hex bolt	8
G	512292	3/8-16 X 5" Carriage bolts	4
H	512302	3/8-16 Top lock flange nuts	12



**FRONT INSTALLATION**

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**INSTALLATION**

1. Park the vehicle on a hard, level surface and engage the emergency brake. Place blocks in front and behind wheels to prevent rolling. Observe all safety precautions and wear safety glasses.
  2. Raise the rear of the vehicle, allowing the axle to hang freely. Support the frame using safety jack stands. Removing the rear wheels is optional.
  3. Attach the upper frame bracket [ITEM B] to the top of the SumoSpring [ITEM A] using two 3/8 – 16 X 3/4” serrated flange hex bolts [ITEM E]. Attach the lower bracket [ITEM C] to the bottom of the SumoSpring using a 3/8 – 16 X 3/4” serrated flange hex bolt [ITEM E].
  4. Insert two 3/8-16 x 4” carriage bolts [ITEM G] into the two square openings in the lower bracket [ITEM C] in such a way that they straddle the factory spring-pack. Position the lower bracket so that the curved side finger captures the factory u-bolt.
  5. Using the U-bracket strap [ITEM D], the two carriage bolts [ITEM G], and two 3/8 - 16 top-lock nuts [ITEM I], fasten the lower bracket [ITEM C] to the factory spring pack.
  6. Repeat steps 3-5 on the other side of the vehicle.
  7. Jack up the vehicle axle until the upper frame bracket [ITEM B] is in the correct position on the frame. Position the bracket so the two lower holes are 6” down from the top of the frame. Using the bracket as a template, drill the lower mounting holes through the frame with a 3/8” drill bit.
  8. Insert two 3/8-16 x 1.25” hex bolts and 3/8” top lock nuts in lower holes.
  9. Using the upper bracket [ITEM B] holes as a guide, drill two upper holes using a 3/8” drill bit.
- [IMPORTANT NOTE: Make sure there is clearance on all cables/service lines inside the frame prior to drilling.]
10. Repeat step 7-9 on opposite side.
  11. Moving to the front, remove the factory bump stop from the underside of the frame. Save the factory hardware for the installation of the upper bracket. [ITEM B].

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**REV. 001 | JULY 2021**

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**INSTALLATION**

**12.** Insert two 3/8-16 flanged hex bolts [ITEM E] into the outside holes of the upper bracket [ITEM B] and allow it to hang freely. Using the factory bump stop bolt and nut you saved, attach the upper bracket [ITEM B] to the bottom of the frame in the same position as the factory bump stop.

**13.** Bolt the upper half of the SumoSprings [ITEM A] to the upper bracket [ITEM A] using the previously installed bolts and tighten securely with a wrench.

**14.** Attach the lower bracket [ITEM C] to the bottom half of the SumoSprings [ITEM A] in the correct orientation using a single 3/8"-16 flanged hex bolt [ITEM E].

[ NOTE: The lower bracket attachment utilizes the inside slot or the slot closest to the frame (or furthest from the wheel). Leave this bolt loose for now.]

**15.** Place the lower bracket with the attached SumoSprings onto the leaf pack above the axle. Adjust the position of the lower half of the SumoSprings to align with the upper half and mark its position on the lower bracket with a pencil. Remove the lower assembly from the leaf pack and securely tighten the bolt while keeping the SumoSprings in the marked position.

**16.** Insert two 3/8"-16 X 3 1/2" and two 3/8"-16 X 5.5" carriage bolts [ITEM F&H] through the four square openings in the lower bracket and place the lower assembly back on the leaf pack. Be sure that upper and lower SumoSprings halves are aligned.

**17.** Attach the u-bracket straps [ITEM D] to the carriage bolts using four 3/8" top-lock nuts [ITEM G]

**18.** Repeat steps 3 - 9 on the other side of the vehicle.

[ NOTE: The factory bump stop on the passenger side utilizes a weld-nut on the inside of the frame, so you will only remove the bolt.]

**19.** Raise the vehicle to allow room to remove the safety jack stands, carefully lower your vehicle to the hard surface, and remove the blocks from the wheels.

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

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