SumoSprings Front

Ford F53 Motor Home, 16k-22k GVWR, 2008-2017
Part #SSF-170-40-2

OEM BUMP STOP BOLT
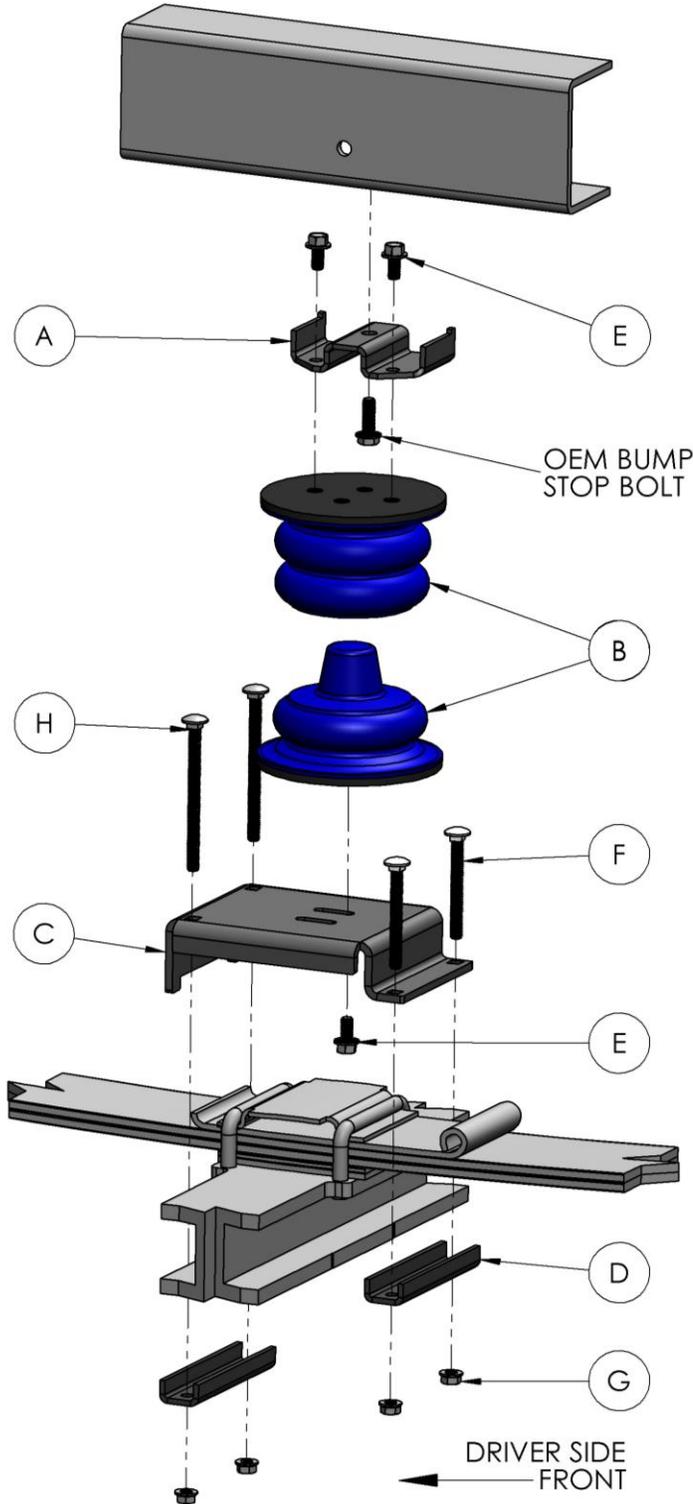
Part #	Description	Quant.	Item
512347	Upper bracket	2	A
511419	SumoSpring	2	B
512034	Lower bracket	2	C
512042	U-bracket strap	4	D
512207	3/8-16 x ¾"serrated flange hex bolt	6	E
512211	3/8-16 x 3.5" carriage bolts	4	F
512302	3/8-16 Locking flange nut	8	G
512360	3/8-16 x 5.5" carriage bolts	4	H

DRIVER SIDE FRONT

Installation Instructions

1) Park vehicle on level hard surface. Engage emergency brake. Place blocks in front and behind rear wheels to prevent rolling. Observe all safety precautions and wear safety glasses.
2) Raise front of vehicle using the front leveling jacks to sufficient height to allow the assembly to be installed. Support the frame using safety jack stands.
3) Starting on the driver side, remove factory bump stop. Save the factory hardware for installation of upper bracket.
4) Remove the lower bracket (item C), upper bracket (item A), and SumoSpring (item B) from the box. Insert two 3/8-16 flanged hex bolt (item E) into outside holes of the upper bracket (item A) and allow to hang freely. Using the factory bump stop bolt and nut, attach the upper bracket to the bottom of the frame in the same position as the factory bump stop as seen figure 1.

Figure 1.

Figure 2.

5) Bolt upper half of the SumoSpring (item B) to the upper bracket using the previously installed bolts and tighten securely with a wrench as seen in figure 2.
6) Attach the lower bracket to the bottom half of the SumoSpring in the correct orientation using a single 3/8"-16 flanged hex bolt (item E). Please note that the lower bracket attachment utilizes the inside slot or the slot closest to the frame (or furthest from the wheel - see diagram on page 1). Leave this bolt loose for now.
7) Place the lower bracket with attached SumoSpring onto the leaf pack above the axle as shown in the diagram on page one. Adjust the position of the lower half of the SumoSpring 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 SumoSpring in the marked position.
8) Insert two 3/8"-16 x 3 ½" and two 3/8"-16 x 5" carriage bolts (item F and H) through the four square openings in the lower bracket. Place the lower assembly back on the leaf pack as shown in the diagram on page 1. Be sure that upper and lower SumoSpring halves are aligned.

9) Attach the u-bracket straps (item D) to the carriage bolts using four 3/8" Top-lock nuts (item G).

10) Repeat steps 3 through 9 on the passenger's side. <u>NOTE: The factory bump stop on the passenger side utilizes a weld-nut on the inside of the frame so only the bolt is removed.</u>

11) Jack up vehicle, remove safety jack stands.

12) Carefully lower vehicle to the hard surface. Remove the blocks in front and back of the rear wheels.

13) Release emergency brake.

14) Fill out warranty card and send to SuperSprings. The warranty card is on the reverse side of this page.

Important Notice.

1) For easy installation please read instructions completely first and have all necessary tools available.

2) We recommend that this installation be done by a professional or persons with sound mechanical knowledge.

3) SumoSprings are designed to work with the original factory springs only. If they have been replaced with aftermarket springs then please consult with Supersprings International.

4) These instructions are meant as a guide for the installation of SumoSprings. SuperSprings International assumes no liability for the actual installation process. Installers should apply common automotive safety practices when raising, lowering and working on vehicles.

5) SumoSprings are designed to enhance the vehicles load carrying performance and road handling however it does not authorize (or recommend) loading beyond the manufacturer's GVWR specifications.

To prevent damage to the vehicle and to ensure safety, do not exceed the maximum load recommended by the vehicles manufacturer (GVWR).