



INSTALLATION GUIDE

PART NUMBER: 5561
REAR ANTI-SWAY BAR
FORD F-150 2WD / 4WD | 2021-2024

300 W. PONTIAC WAY. CLOVIS, CA 93612
PHONE: 800-445-3767 | EMAIL: INFO@BELLTECH.COM

THANK YOU

Thank you for choosing our high quality Belltech product. We have spent a great deal of time developing our line of products so that you will receive maximum performance with minimal difficulty during installation. Soon your vehicle will be on the road looking and feeling much improved.

Please take a moment to read all instructions and warnings prior to installation of your new Belltech product and before operating your vehicle. If you have any questions or concerns regarding any step in the installation process, please do not hesitate to call or email our customer support specialists who are trained to help you through any portion of this process.

Before You Begin:

It is of the utmost importance that you confirm all the components listed on the parts list are in the kit. You can find this list located on the last page(s) of your instructions. Do not begin installation if any part is missing. Instead, please call our Belltech customer service specialists.

Belltech Customer Support:

Phone: 1-800-445-3767

Email: info@belltech.com

Safety Information:

Warning: Do not work under a vehicle supported only by a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

Proper use of safety equipment and eye/face/hand protection is necessary when performing any of the following instructions.

We strive for an exceptional experience for all our valued customers. If for any reason you need assistance with your Belltech products, please do not return the product to the store you purchased from, but rather call our dedicated customer service experts, from 7am to 5pm PST.

We recommend that a qualified mechanic, in a properly equipped facility, perform this installation.

It is very helpful to have an assistant available during installation.

Before Driving Your Vehicle:

It is important to double check all brake hoses, cables, and other components to be sure there is no interference. You must also check for wheel/tire to chassis/body interference. If any issues are found, review your installation instructions to be sure no steps were missed, and any problems are corrected.

Make sure your vehicle is aligned immediately following installation.

Check all hardware and torque at intervals for the first 10, 100, and 1000 miles.

Some of Belltech's products are designed to improve your vehicle's off-road performance. Leveling/lifting your vehicle may result in an altered center of gravity. It is crucial to use extreme care when operating your vehicle to prevent rollover and/or loss of control.

Any changes in your vehicle's suspension may result in transformed handleability. Please test-drive your vehicle in a remote location so you can become accustomed to the revised driving characteristics.

Perform headlight check and adjustment.

Failure to drive any modified vehicle in a safe manner may result in harm or death.

Never operate your modified vehicle under the influence of drugs, alcohol, or lack of adequate sleep.

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME: 1-2 Hours

RECOMMENDED TOOLS:

- Properly rated floor jack, support stands, and wheel chocks
- Ratcheting socket wrench and socket set
- Combination wrench set
- 17/32 drill bit and power drill
- Safety glasses
- Torque wrench rated up to 150 ft lbs.

JACKING, SUPPORTING, AND PREPARING THE VEHICLE

1. Park your vehicle on a smooth, level, concrete or seasoned asphalt surface.
2. Block the front wheels of the vehicle using wheel chocks. Make sure the vehicle's transmission is in "PARK" (automatic) or 1st gear (manual).
3. Activate the parking brake.
4. Break loose, but do not spin the wheel lug nuts to ease in removal when the wheels are in the air.
5. Lift the rear of the vehicle off the ground using a properly rated floor jack. Lift the vehicle so the rear tires are approximately 6-8 inches off the ground.
6. Place support stands rated for the vehicle's weight. The stands should be positioned in the factory specified locations. (Please refer to owners manual). Prior to lowering the vehicle onto stands, make sure the support stands will contact the chassis. It is very important that the vehicle is properly supported to prevent any harm to oneself or to the vehicle.
7. Lower the vehicle slowly onto the stands.
8. Remove the rear wheels.

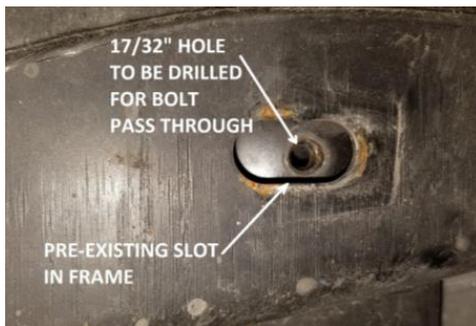


Technician reminder:

Never work under a vehicle supported only by a jack. It is necessary to place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

BELLTECH SWAY BAR INSTALLATION

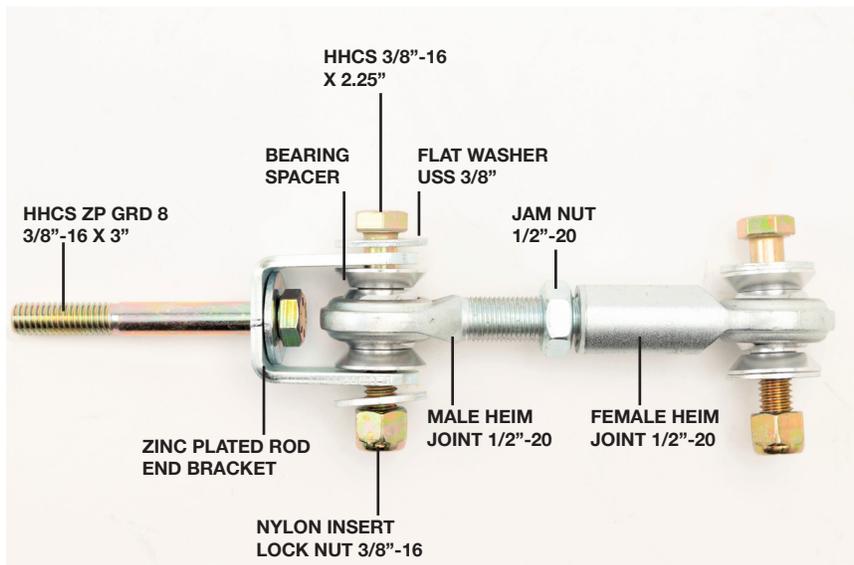
9. Locate the slots on both sides of the vehicle, at the underside of the frame, where the frame meets the rear cross beam.
10. Drill a 17/32" hole, directly above, into the cross beam. The hole must be located evenly between the front and backside of the beam to allow the end link bracket bolt to pass through.



11. Slide the supplied end link mount plate into the cross beam, far enough for the attached nut to align with the newly drilled hole. The plate number 6447-050 is used on the driver's side. Plate number 6447-051 is used on the passenger side. The mounting process is the same on both sides.
12. Attach the end link bracket and mount plate to the cross beam using the 3/8-16 x 3" bolt. Place a washer between the head of the bolt and the bracket to distribute the pressure. Ensure not to overtighten and bend the bracket. Torque to 80 ft lbs.



13. Using the example below, please assemble the adjustable length end link.

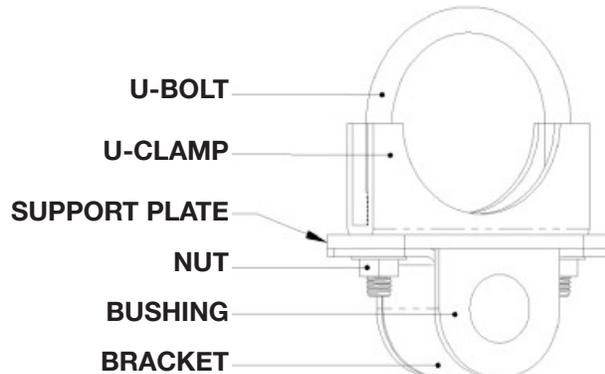


BELLTECH SWAY BAR INSTALLATION CONTINUED

- Attach the upper end link assembly to the end link bracket with the supplied 3/8"-16 x 2.25" bolt, a 3/8" Nyloc nut, and 3/8" washers on each side of the bracket. Ensure the jam nut on the end link is tightened to prevent it from going out of adjustment.



- Thoroughly lubricate the inside of the supplied pivot bushings using the grease packet included with the kit.
- Place the bushings on both sides of the Belltech sway bar, near the first set of bends. Once located, rotate the bushings slightly to evenly spread the lubricant. Place the bushing brackets over the bushings.
- Position the sway bar under the axle with the bar ends pointed forward and above the leaf springs.
- Carefully bend the hydraulic line away from the axle and place the U-bolts inside the lower shock mount brackets, over the axle tube, and under the brake line. Ensure the brake line is not clamped underneath. Place the U-clamp on the U-bolt followed by the support plate. Mount the sway bar and bushing bracket on the U-clamp. Hand tighten the supplied nuts on the U-bolt for now. Ensure the sway bar is positioned below the axle.

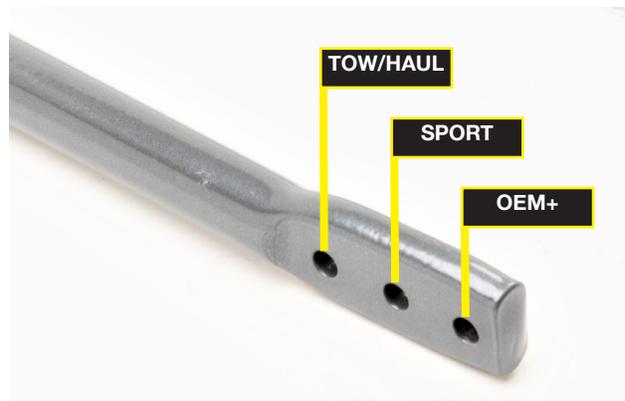


- Please choose a sway bar setting for your vehicle: OEM+, SPORT, or TOW/HAUL (OEM+ is soft and TOW/HAUL is firm).



Technician reminder:

We suggest testing the sway bar in its softest setting, which is the setting furthest from the axle, each remaining setting will stiffen the roll resistance forces by 10%.



BELLTECH SWAY BAR INSTALLATION CONTINUED

20. Attach the lower end links to the sway bar ends with 3/8"-16 x 2.25" bolts, 3/8" Nyloc nuts, and 3/8" washers. The end links must be outboard of the sway bar. Ensure there is a washer between the sway bar and the fastening nut. Torque the upper and lower end link bolts to 45 ft lbs.



21. Adjust the length of the end links to set the sway bar as parallel with the ground as possible, while still having at least 7-8 turns of thread on the Heim joint remaining.
22. Once all end link hardware is tightened, center the sway bar bushings. Both sway bar bushings and bracket assemblies should now be pushed as far outboard as possible so that the bushing is next to the bend in the bar. The sway bar bushing clamp and hardware should be rotated onto the bottom side of the axle so that the end links are in a vertical position when looking from the side of the vehicle. Torque the U-clamp nuts to 19 ft lbs.

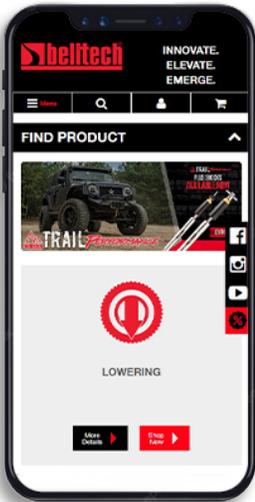


FINALIZING THE INSTALLATION

23. Mount the wheels and tighten the lug nuts.
24. Lift the vehicle and remove the support stands.
25. Carefully lower the vehicle onto flat ground.
26. Torque the lug nuts to 98 ft lbs.
27. Check that all components and fasteners have been properly installed and torqued.
28. Read and perform all tasks in the “Before Driving Your Vehicle” section of page 1 of your instructions.

THANK YOU FOR CHOOSING BELLTECH.

You are now a part of the Belltech family and we are eager to catch a glimpse of your newly modified vehicle. Give us a shout out and let us know how much you love our product. Don't forget, we offer other Belltech related merchandise for you and your vehicle on our website www.belltech.com



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[Belltech Suspension](https://www.youtube.com/BelltechSuspension)



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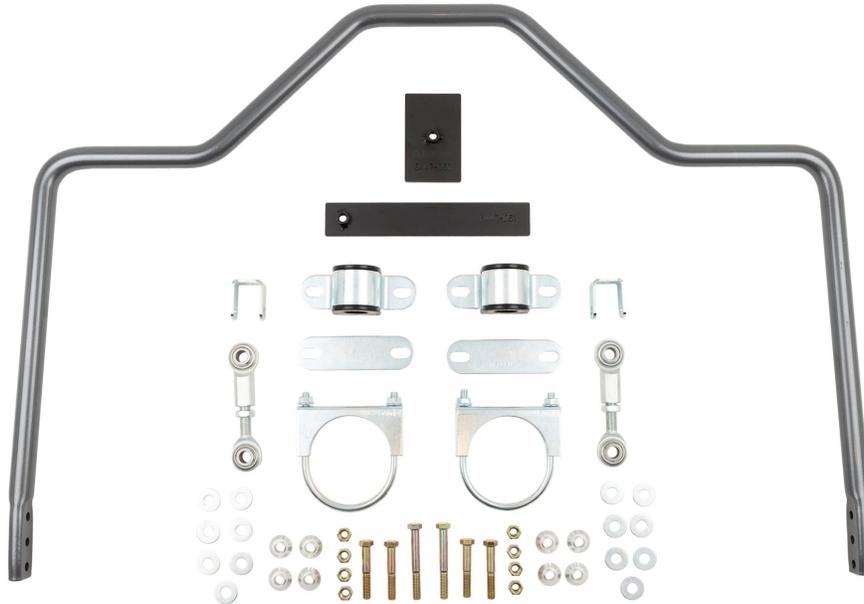
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KIT CONTENTS



SWAY BAR KIT		
Part number	Description	Qty
5561-300	REAR ANTI-SWAY BAR	1
5559-777	HARDWARE KIT	1

HARDWARE KIT		
Part number	Description	Qty
6447-050-99	DRIVER SIDE MOUNT PLATE	1
6447-051-991	PASSENGER SIDE MOUNT PLATE	1
112112	3/8-16 X 3" BOLT	2
112248	1/2"-20 MALE HEIM JOINT	2
112249	1/2"-20 FEMALE HEIM JOINT	2
112326	1/2"-20 JAM NUT	2
110255	3/8"-16 NYLOC NUT	8
112518	3/8" WASHER	14
71001-007-95	END LINK BRACKET	2
112106	3/8"-16 X 2-1/4" BOLT	4
57400-045	BEARING SPACER	8
112260	3-1/4" U-CLAMP	2
113075	1" PIVOT BUSHING	2
115002-95	PIVOT BUSHING BRACKET	2
115003-95	BUSHING SUPPORT PLATE	2
55000-10	GREASE PACK	1



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