



INSTALLATION INSTRUCTIONS

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5559
REAR ANTI-SWAY BAR
2016+ FORD F-150

This anti-sway bar is designed for vehicles with flipped rear suspension!

Thank you for being selective enough to choose our high quality BELLTECH PRODUCT. We have spent many hours developing our line of products so that you will receive maximum performance with minimum difficulty during installation.

- Note:** Confirm that all hardware listed in the parts list is in the kit. **Do not** begin installation if any part is missing. Read the instructions thoroughly before beginning this installation.
- Warning:** **DO NOT** work under a vehicle supported by only a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.
- Warning:** **DO NOT** drive vehicle until all work has been completed and checked. Torque all hardware to values specified.
- Reminder:** Proper use of safety equipment and eye/face/hand protection is necessary when performing the outlined procedures.
- Note:** It is helpful to have an assistant available during installation.

RECOMMENDED TOOLS:

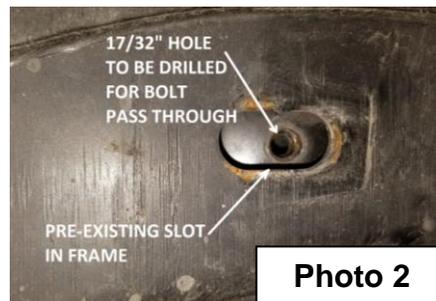
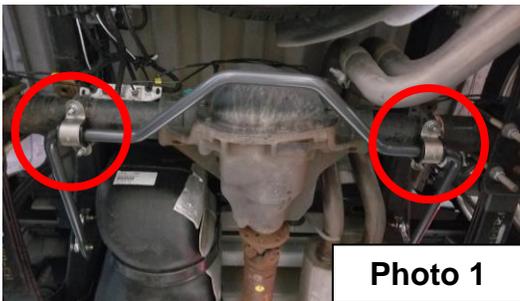
- Properly rated floor jack, support stands, and wheel chocks
- 17/32" drill bit and power drill
- Electric or pneumatic grinder
- Combination wrench: (9/16", 3/4")
- Ratcheting socket wrench and sockets (9/16")
- Safety Glasses

KIT INSTALLATION

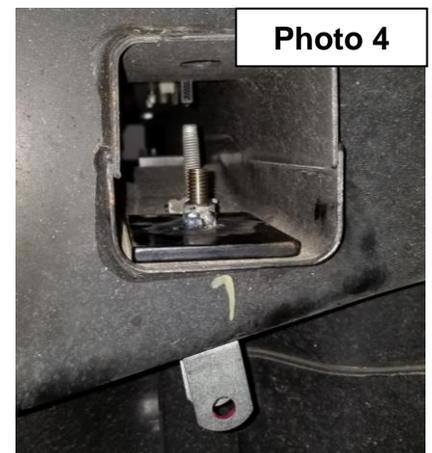
1. Open the hardware kit and remove it's contents. Refer to the parts list (Page 5) to verify that all parts are present.
2. Park the vehicle on a smooth, level concrete or seasoned asphalt surface and activate the parking brake. Chock the **FRONT** wheels of the vehicle with appropriate wheel chocks; making sure the vehicle's transmission is in 1st gear (manual) or "Park" (automatic).
3. Using a properly rated floor jack, lift the **REAR** wheels of the vehicle off the ground. Place support stands, rated for the vehicle's weight, in the factory specified locations. Refer to the vehicle Owner's Manual. Prior to lowering the vehicle onto the stands, make sure the supports will securely contact the chassis.

It is very important that the vehicle is properly supported during this installation to prevent personal injury and chassis damage! Make sure that the support stands are properly placed prior to performing the following procedures. We **DO NOT RECOMMEND** using wheel ramps while performing this installation.

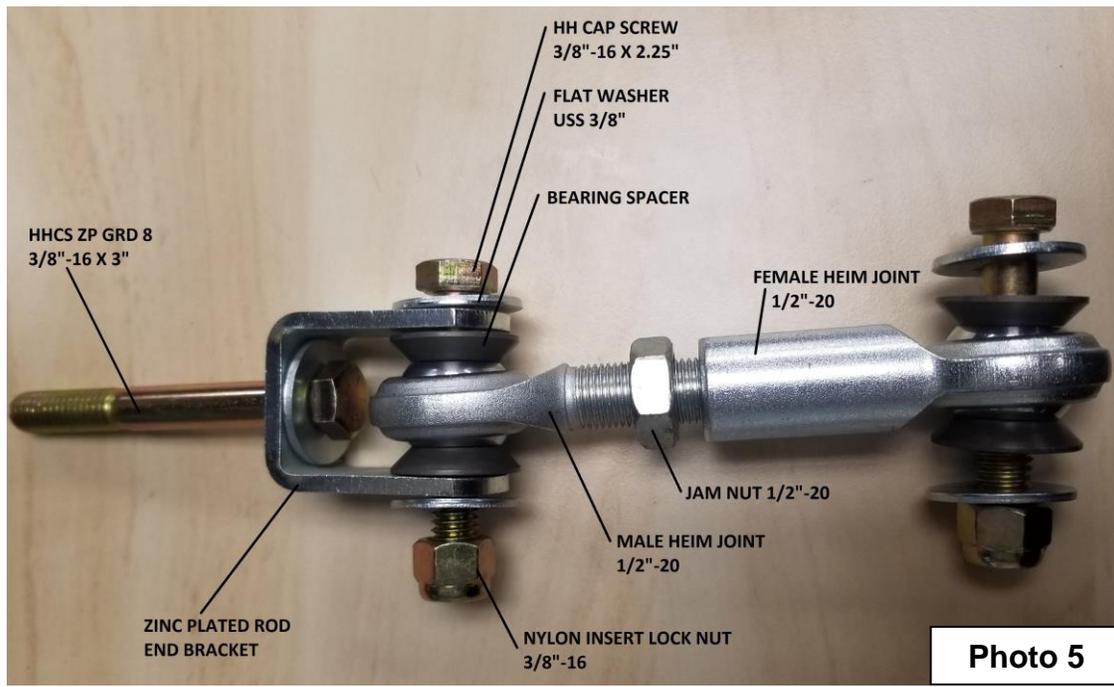
4. Thoroughly lubricate the **inside** of the new polyurethane bushings using the grease provided. Locate and attach the bushings on the ends of the Belltech Anti-Sway Bar (ASB) (**Photo 1**). Once located, rotate the bushings slightly to evenly spread the lubricant.
5. Locate the Slot on either side of the vehicle on the underside of the Frame, where the frame meets the rear cross beam. Drill a 17/32" hole, directly above, into the cross beam. The hole should be located evenly between the front and backside of the beam and allow for the bolt to pass through. (**photo 2, 3 & 4 can be used for reference**) *Following Mounting instructions are the same for both sides.*



6. Slide the supplied end link mounting bracket plate into the crossbeam far enough for the attached nut to align with the newly drilled hole. The plate labelled 6447-050 is used on the drivers side while 6447-051 is used on the passenger side. The mounting processes are the same on both sides. (**Photo 3 & 4**)



7. Tighten the bracket to the cross beam to 80 ft•lb of torque using the 3" long 3/8" – 16 Bolt. Be Careful not to overtighten and bend the bracket. It may help to insert the end links before tightening. Do not forget a washer between the head of the bolt and bracket to distribute the pressure.



8. Attach the end-link assembly to the mounting bracket and secure hand tight with the supplied 3/8" - 16 X 2.25" HHCS bolt, 3/8" - 16 Nyloc nut and 3/8" USS flat washer on each side of the bracket. **(Photo 5)** The jam nut should be tightened to eliminate the Link from coming out of adjustment.

9. Insert the bar from under the vehicle positioning it under the axle with the bar ends pointed forward and above the leaf springs. Once in position, start from one side and place one U-bolt, saddle, and bushing support plate around the axle. **IMPORTANT:** U-bolt is to be placed under the existing brake line and the ASB is not tangled up in the parking brake cables. While holding the U-bolt with one hand, attach the Anti-Sway Bar bushing clamp with the other, and loosely thread the hardware into place using the supplied 3/8" - 16 Nyloc Nut and 3/8" USS flat washer. Do the same to the other side. Do not tighten the U-bolts, as they will be securely fastened after all the other components have been put on. **(See Photo 6 for position reference)**



WD-40™ is recommended to help remove excess lubricant. Re-greasing the pivot bushings should be Performed at regular intervals.

10. Attach the bottom of each end-link assembly onto the Belltech anti-sway bar using the 3/8" - 16 X 2.25" HHCS bolt, 3/8" - 16 Nyloc nut, and 3/8" USS flat washers. The end-links should be outboard of the ASB. **(Photo 7)** Make sure there is a washer between the Sway bar and the fastening nut. We recommend testing the Bar in its softest adjustment, which is the hole furthest towards the front of the vehicle, each remaining adjustment will stiffen the roll resistance forces by 10%. **(See Photo 5 for bolt assembly reference)** The endlinks can be adjusted. Adjust the endlinks to get the swaybar as parallel with the ground as possible, while still having at least 7-8 turns of thread remaining.



11. Center the ASB in the bushings once the end-link hardware is tightened (**Photo 6**). Both ASB 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. Anti-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.
12. Tighten and torque the u-bolt bracket hardware to 19 ft•lbs.
13. All hardware being fastened to the vehicle's original fastening points should be torqued to the proper specifications. To prevent chassis damage, never over-torque.
14. Check that all components and fasteners have been properly installed, tightened and torqued.
15. Check brake hoses, and other components for any possible interference.
16. Lift vehicle and remove support stands. Carefully lower vehicle to ground.
17. Immediately test-drive the vehicle in a remote location so that you can become accustomed to the revised driving characteristics and handling. Be aware that the vehicle will handle substantially different now that it has been modified.
18. Installation is complete. Check all hardware and re-torque at intervals for the first 10, 100, 1000 miles.

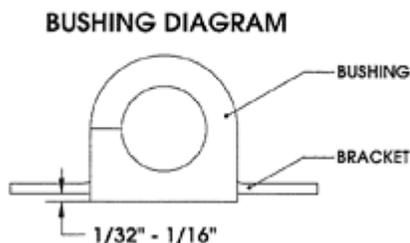
! BELLTECH INSTALLATION TIPS

LUBRICATION

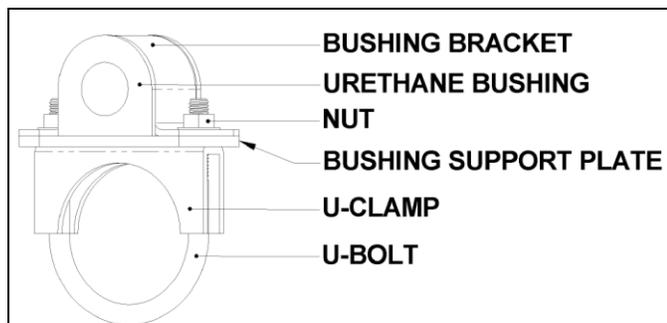
Pre-lubricating the inside of the bushing before it's installed is critical. The lubrication will greatly reduce noise and increase bushing life. Belltech recommends you use Molybdenum disulfide to protect the inside surface of the bushing due to its increased life compared to other grease types. Thoroughly lubricate the inside of the bushing with this grease.

BUSHING INSTALLATION

Make sure an amount of 1/32" to 1/16" of the bushing is showing when you install it onto the bracket. See the diagram below. If the bushing is showing more than 1/16" then use a sander or a sheet of coarse grit sand paper to shave it down to the proper height.



AXLE CLAMP DIAGRAM



**PART LIST FOR 5559
ANTI-SWAY BAR KIT**

QTY	Part #	DESCRIPTION
1	5559-300	PAINTED REAR SWAY BAR
2	115002-95	ZINC PLATED PIVOT BUSHING BRKT
2	115003-95	ZINC PLATED BUSHING SUPPRT PLT
2	113075	PIVOT BUSHING 1.0"
1	55000-10	GREASE PACK
2	112112	HHCS ZP GRD 8 3/8-16 X 3
8	110255	NYLON INSERT LOCK NUT 3/8"-16
14	112518	FLAT WASHER USS 3/8"
2	112260	U-CLAMP 3-1/4"
1	6447-050-99	POWDERCOATED SWAYBAR MOUNTING
1	6447-051-99	PASS POWDERCOATED SWAYBAR MOUNTING
2	112248	MALE HEIM JOINT 1/2"-20
2	112249	FEMALE HEIM JOINT 1/2"-20
8	57400-045	BEARING SPACER- TOE ADJUSTER
2	112326	JAM NUT 1/2"-20
2	71001-007- 95	ZINC PLATED ROD END BRACKET
4	112106	HH CAP SCREW 3/8"-16 X 2-1/4"