300 W. Pontiac Way Clovis, CA 93612 toll free: 1-800-445-3767 web: www.belltech.com

# 2021+ FORD F150
# REAR ANTI-SWAY BAR

**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 of the 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 specified values.

Reminder: Proper use of safety equipment and eye/face/hand protection is absolutely necessary when using these tools to perform procedures!

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

**Exceptional Customer Experience Guarantee:**

**STOP**! We strive for an exceptional experience for all of our valued customers. If, for any reason, you need assistance with your Belltech products, *please do not return the products to the store or website you purchased from.* Please call our dedicated experts at

(1-800-445-3767) from 7am to 5pm PST.

RECOMMENDED TOOLS

- Properly rated floor jack and support stands
- 17/32" Drill Bit and Power Drill
- Electric or Pneumatic Grinder
- Combination Wrench: (9/16" and 3/4")
- Ratcheting Socket Wrench and Sockets (9/16")
- Safety Glasses

DIFFICULTY: 

INSTALLATION TIME: 2-3hrs

## KIT INSTALLATION

**WE RECOMMEND** that a qualified mechanic, at a properly equipped facility, perform this installation.

**WE RECOMMEND** that the installation be performed on a firm, flat, and level surface such as seasoned asphalt or concrete.

**The use of safe and proper equipment is very important!**

## 1) JACKING, SUPPORTING AND PREPARING THE VEHICLE

**a)** Block the rear wheels of the vehicle with appropriate wheel chocks. Make sure the vehicle's transmission is in "PARK" (automatic) or 1st gear (manual). Activate the parking brake.

**b)** Loosen, but **DO NOT REMOVE** the front wheel lug nuts.

**c)** Lift the front of the vehicle off the ground using properly rated floor jack. Lift the vehicle so that the front tires are approximately 6-8 inches off the ground surface.

**d)** Place support stands rated for the vehicles weight. The stands should be positioned in the factory specified locations. (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 ones self or to the vehicle.

**e)** Lower the vehicle slowly onto the stands, checking that they properly and securely contacting the frame rails as described above before placing the vehicles weight completely on them.

**f)** Remove the front wheels**.**

**!SAFETY REMINDER!**

**Check for safe vehicle stability before proceeding under the vehicle to begin the following procedures. Never work under a vehicle supported by ONLY a jack. Always use properly rated support stands to support the vehicle.**

## 2) Anti-Sway Bar Installation

a) Thoroughly lubricate the inside of the new polyurethane bushings using the grease provided.

b) Locate and attach the bushings on the ends of the Belltech anti-sway bar (ASB). Once located, rotate the bushings slightly to evenly spread the grease.

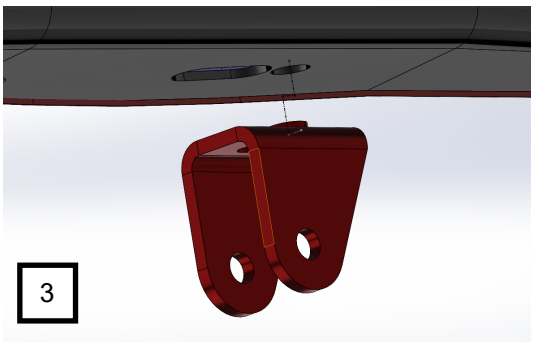
c) Locate the slot on both sides of the vehicle on the underside of the frame where the frame meets the rear cross beam. Drill a 17/32” hole directly above and into the cross beam. The hole should be located evenly between the front and back of the beam and allow for a bolt to be passed through. **(Photo 1)**


d) Measure 17mm away from the center of the hole previously drilled and towards the rear of the truck to make a mark that is parallel with the slot in the frame of the truck.

e) Drill a 12mm hole on the previously marked location on each side of the truck.

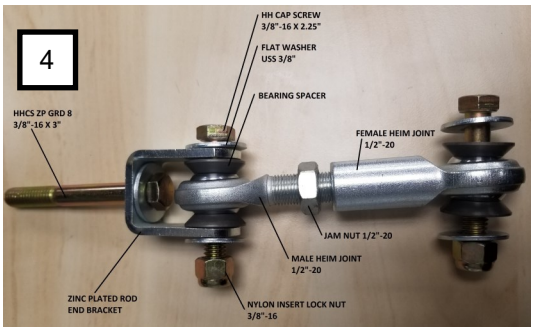

f) Slide the supplied end link mounting bracket plate into the crossbeam far enough for the attached nut to align with the newly drilled hole. The plate stamped 6447-050 is for the driver side and 6447-051 is for the passenger side. **(Photo 2)**

g) Insert the end link bracket into the holes ensuring that the pin on the bracket is in the 12mm hole drilled in step e. **(Photo 3)**




h) Using the supplied 3/8-16 x 3” hex head bolt and a washer, tighten the end link bracket into the plate installed in the crossbeam to 80 ft-lbs. Be careful not to overtighten and bend the bracket.

i) Assemble both end links as shown in **photo 4.** Assemble end link onto the end link bracket with the supplied 3/8”-16 x 2.25” bolt and nylock nut. Ensure that there are washers on each side of the bracket. Keep the jam nut hand tight as this will be adjusted later.



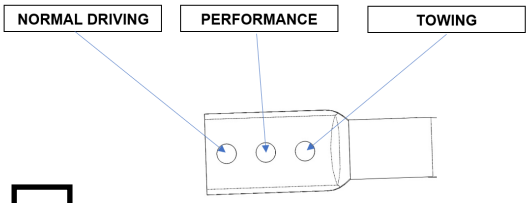

j) Insert the bar from under the vehicle, positioning it under the axle with the bar ends pointed forward and above the leaf springs. Place one U-bolt, saddle, and bushing support plate around the axle. Ensure that the U-bolt and ASB are clear of existing cables. Loosely thread the 3/8”-16 nylock nuts and washer on to the U-bolts for both sides of the vehicle. **(Photo 5)**

k) Attach the bottom of each end link assembly onto the ASB using the supplied 3/8”-16 x 2.25” hex head bolts, washers, bearing spacers, and nylock nut. The end link should attach on the outside of the ASB, closest to the exterior of the truck. **(Photo 10)**


10

l) The ASB has 3 holes for different performance amounts. Refer to **photo 11** to choose the proper hole for the desired performance and attach the end link to that hole.

m) Adjust the end links so that the ASB is parallel with the ground while still having at least 7-8 turns of thread remaining. Once the ASB is parallel to the ground tighten the lock nut.



11

n) Center the ASB in the bushings once all of the end link hardware is tightened. 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 clamps 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. **(Photo 12)**


12

o) Tighten and torque the U-bolt bracket hardware to 19 ft-lbs.

p) All hardware being fastened to the vehicle’s original fastening points should be torqued to the proper specifications

## 2) Finalizing the Installation

a) Re-install the wheels and torque to OEM specifications.

b) Check that all components and fasteners have been properly installed and torqued

c) Lift the vehicle and remove the support stands. Carefully lower the vehicle to the ground.

d) Check brake hoses, cables, and other components for possible interference.

e) Check for wheel/tire to chassis/body interference.

f) Test-drive the vehicle in a remote location so that you can be accustomed to the revised driving characteristics and handling.

g) Check all of the hardware and re-torque at intervals for the first 10, 100, and 1000 miles

| KIT CONTENTS | | |
|---|---|---|
| **P/N** | **ITEM DESCRIPTION** | **QTY** |
| 5561-300 | Rear Anti-Sway Bar | 1 |
| 5559-777 | Hardware Kit | 1 |

| HARDWARE KIT (5559-777) | | |
|---|---|---|
| **P/N** | **ITEM DESCRIPTION** | **QTY** |
| 115002 | Pivot Bushing Bracket | 2 |
| 115003 | Bushing Support Plate | 2 |
| 113075 | Pivot Bushing | 2 |
| 55000 | Grease Pack | 1 |
| 112112 | Hex Head 3/8"-16 x 3" Bolt | 2 |
| 110255 | 3/8" Nylock Nut | 8 |
| 112518 | 3/8" Flat Washer | 14 |
| 112260 | 3.25" U-Clamp | 2 |
| 6447-050 | Driver Side Swaybar Mounting Plate | 1 |
| 112248 | 1/2"-20 Male Heim Joint | 2 |
| 112249 | 1/2"-20 Female Heim Joint | 2 |
| 57400-045 | Bearing Spacer - Toe Adjuster | 8 |
| 112326 | 1/2"-20 Jam Nut | 2 |
| 71001-007 | End Link Bracket | 2 |
| 112106 | Hex Head 3/8"-16 x 2.25" Bolt | 4 |
| 6447-051 | Passenger Side Swaybar Mounting Plate | 1 |