



## INSTALLATION INSTRUCTIONS

1075 North Ave. Sanger, CA 93657-3539 local: 559-875-0222 fax: 559-876-2259 toll free: 800-445-3767

5547

### REAR ANTI-SWAY BAR

1997- 03 FORD F-150 Crew Cab, Harley Edition, & Lightning

**Congratulations! You were selective enough to choose a 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 values specified.
- 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.

#### RECOMMENDED TOOLS:

- Properly rated floor jack, support stands and wheel chocks
- Combination wrench- 5/8", 9/16"
- Ratcheting socket wrench and sockets- 5/8", 9/16"
- Drill Motor with 5/16 Attached socket
- Measuring Tape
- C-Clamp
- Mounted Vice
- Safety Glasses

#### KIT INSTALLATION

1. Open the hardware kit and remove all the contents. Refer to the part list (Page 3) to verify all parts are present.
2. Park the vehicle on a smooth, level concrete or seasoned asphalt surface and activate the parking brake. Block the FRONT wheels of the vehicle with appropriate wheel chocks; making sure the vehicle's transmission is in 1<sup>st</sup> 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, and 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 supports stands are properly placed

prior to performing the following procedures. We **DO NOT RECOMMEND** using wheel ramps while performing this installation.

4. Slowly lower the vehicle onto the stands and, before placing the vehicle's entire weight on them, again check that they properly and securely contact the chassis as described above. Check for possible interference with any lines, wires, cables, or other easily damaged components.
5. Thoroughly lubricate the **inside** of the new polyurethane bushings using the grease provided. Locate the bushings on the far ends of the Belltech Anti-Sway Bar (Photos 1,2,3). Once located, rotate the bushings slightly too evenly spread the lubricant.

**WD-40™** is recommended to help remove excess lubricant. Re-greasing the pivot bushings should be performed at regular intervals. Climate and driving conditions will govern the time between services. Remember to check all hardware while performing bushing maintenance.

6. Insert the bar from under the vehicle positioning it behind the axle with the bar ends pointed rearward (Photo 1). Once in position, start from one side and place one U-bolt, saddle, and bushing support plate around the axle. 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. Do the same to the other side (Photo 2, 3). Do not tighten the U-bolts, as they will be securely fastened after all the other components have been put on.
7. Locate the exhaust mount behind the rear axle on the passenger side of the frame. Remove bracket by the two nuts on the backside of the mount and pull it out from rubber dampener (Photo 4).
8. The bracket arm will need to be bent and relocated several inches to the rear (Photo 5). Hold the bracket in its new position (Photo 5,6) to determine where and how far the mounting arm needs to be bent. Using a bench mounted vice and clamping device, bend the mounting arm the opposite direction so it can be re attached to the rubber mount (Photo 5). Bolt the bracket onto the frame in its new position using the supplied back brace to clamp (Photo 6). Re-attach the rubber dampener to the arm and check that all fasteners are securely tightened.

## **END LINK FRAME MOUNT INSTALLATION**

- 1) On the passenger side of the vehicle hold the end link frame mount to the frame locating it  $\frac{3}{4}$  of an inch over from the edge of the big oval slot on the frame (Photo 7). Use a vice grip or clamp to lock the mount into position. Using the mount as a template drill the  $\frac{1}{4}$  inch holes in the side and bottom of the frame (Photo 8). Securely bolt the mount to the frame with the supplied  $\frac{1}{4}$ " x 1 " bolts, washers and nylon lock nuts.
- 2) Attach the driver's side end link frame mount in the same order as the passenger side.
- 3) Connect the dog bone end-links from the frame mounts to the Anti-Sway Bar ends using the  $\frac{3}{8}$ " x 2  $\frac{1}{2}$ " bolts, washers, and nylon lock nuts (Photo 9). Securely fasten the end-links in place.
- 4) Before tightening the U-bolts to the axle, make sure the Anti-Sway Bar is centered from side to side, and check to see that it doesn't interfere with the shock (Photo 10). Next, tighten the u-bolts in place so that the Anti-Sway Bar is centered along the axle tube or just above the center of the tube. Once secure you will need to place the vehicle weight on the wheels to verify that the shock is clear of the bar (Photo 10). If the Anti-Sway Bar is touching or looks to close to the shock you can loosen the u-bolts and rotate upward for more clearance.
- 5) Check that all components and fasteners have been properly installed, tightened and torqued.
- 6) Check brake hoses, cables, lines and other components for any possible interference.
- 7) Lift vehicle and remove support stands. Carefully lower vehicle to ground.

- 8) 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.
9. Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.

**PART LIST FOR 5547  
ANTI-SWAY BAR HARDWARE KIT**

<b>Part Number</b>	<b>Quantity</b>	<b>Description</b>
5547-300	1	Anti-Sway Bar
113075	2	Urethane Pivot Bushing 1"
112260	2	Axle U-Bolt Clamp 3 1/4"
110255	4	3/8-16 Lock Nut
114050	2	End Link Dog Bone
115002	2	Pivot Bushing Bracket
115003	2	Under Bushing Support Plate
55000-10	1	Grease Pack
5501	1	Universal Frame Mount Kit





