



## INSTALLATION INSTRUCTIONS

5407

### 2006-UP CHEVROLET SILVERADO, TAHOE, AVALANCHE, FRONT ANTI-SWAY BAR

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.

In order to properly equip your truck and maintain predictable handling characteristics, we recommend installing high-quality **Belltech** Anti-sway Bars in matched sets **ONLY**. While upgrading Anti-sway bars, we also suggest installing **Belltech Nitro-Drop®** or **Nitro-Active®** shock absorbers to further improve your vehicle's handling and performance.

**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.

#### RECOMMENDED TOOLS:

- Properly rated floor jack, support stands, and wheel chocks
- Combination wrench: 9/16"
- Torque wrench: 0-75 lb ft. range
- Ratcheting socket wrench and sockets: 10mm, 9/16"
- Safety Glasses

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

 **SAFETY REMINDER: PROPER USE OF SAFETY EQUIPMENT AND EYE/FACE/HAND PROTECTION IS ABSOLUTELY NECESSARY WHEN USING THESE TOOLS TO PERFORM PROCEDURES!**

#### KIT INSTALLATION

1. Open the hardware kit and remove all of the contents. Refer to the part list (**Page 3**) and 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. Block the REAR 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 front 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.

**η 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. Remove the front wheels.
5. Remove the original front anti-sway bar from the vehicle. This requires 10mm and 15mm wrenches for the pivot bushing bracket and end-link hardware, respectively. (photos 1-6)
6. The new **Belltech** anti-sway bar will utilize the original pivot bushings, brackets and hardware. Thoroughly clean the mounting areas and hardware.
7. Locate the bushings on the **Belltech** anti-sway bar so that they will align with the factory mounting locations with the bar centered on chassis. Place the original pivot bushing brackets onto the bushings.
8. Reinstall the anti-sway bar onto chassis in the reverse order of removal. Align the holes in brackets with their original mounting holes. Loosely thread the original hardware into place. (photo 7)

**η The bar should be installed so that the ends pass ABOVE the lower control arms. Shift the bar side-to-side and front-to-back to center on chassis. Be cautious not to damage brake lines while installing the anti-sway bar.**

9. Using a 10mm socket, tighten and torque the bracket hardware to 19 lb ft. A shallow socket may be required to access the bolts towards the front of the vehicle.

**η 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 the hardware.**

10. Install the original end-links in the same orientation as they were. Install the bolts with washers from below so that the heads face down and the lock nuts will be located at the top. Thread the lock nuts on by hand. Use the 9/16" wrench and 9/16" socket to tighten the end-link hardware. Tighten only until the urethane end-link grommets just begin to bulge.
11. Check that all components and fasteners have been properly installed, tightened and torqued.
12. Reinstall the front wheels. Tighten and torque the lug nuts to the Manufacturer's specifications.
13. Check brake hoses, steering and other components for any possible interference.
14. Lift vehicle and remove support stands. Carefully lower vehicle to ground.

15. 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.

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

**η We highly recommend installing the appropriate matching *Belltech* rear Anti-sway Bar to maintain proper handling characteristics and performance. See the current *Belltech Application Guide* or contact you nearest *Belltech Dealer* for the appropriate part number for your application.**

**PART LIST FOR 5407 FRONT ANTI-SWAY BAR KIT**

<b>PART#</b>	<b>DESCRIPTION</b>	<b>QTY</b>
5407-300	Front Anti-sway Bar	1
5407-888	Installation Instructions	1





## INSTALLATION INSTRUCTIONS

### 6400, 6401, 6403, 6404, 6405, 6406, 6425, 6590, 6700, 6702 Lowering Shackles

**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 set
- Torque wrench: *50-250 lb ft. range*
- Ratcheting socket wrench and socket sets
- Safety Glasses

#### **JACKING, SUPPORTING AND PREPARING THE VEHICLE**

1. Open the hardware kit and remove all of the contents. Refer to the part list (Page 3) 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. 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.

5. Check for possible interference with any lines, wires, cables, or other easily damaged components.

## **SHACKLE INSTALLATION**

1. Block the front wheel and raise the back of the truck. Place jack stands under the frame just ahead of the front spring hangers.
2. Position the rear end with a floor jack so there is no pressure on the leaf springs at the rear shackles. Remove the spring eyebolts from the shackle and remove it from the leaf spring. **CAUTION:** Leaf springs are under tension, use caution when disconnecting. (Photo 1 & 2)
3. Lift the rear of the spring up and place the new shackle on the spring. Make sure you put the spring eyebolt in from the inside out so the threads are toward the outside. (Photo 2)
4. Lower the shackle into position, into the stock hanger on the frame and slide the spring eyebolt through the spring into place. (Photo 3) Raise the truck with the floor jack just until the truck lifts off the stands. Now tighten the four spring eyebolts on the shackles. Remove the jack stands carefully and lower the truck to the ground. Your installation is now complete.

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 the hardware.

6. Check that all components and fasteners have been properly installed, tightened and torqued.
7. Check brake hoses, and other components for any possible interference.
8. Lift vehicle and remove support stands. Carefully lower vehicle to ground.
9. 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.
10. Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.

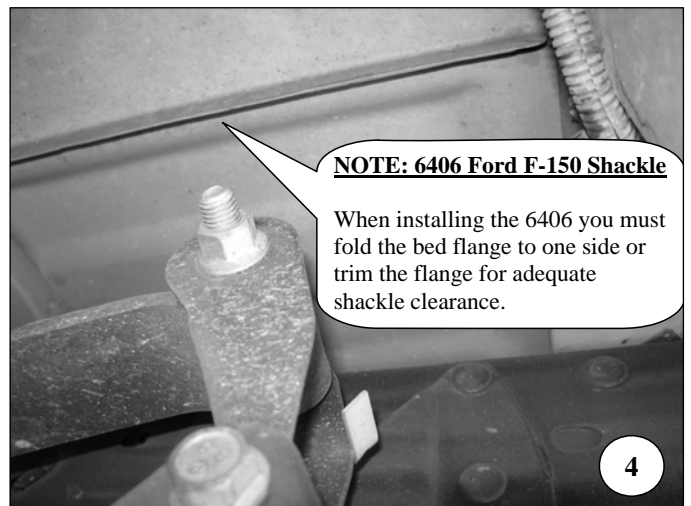
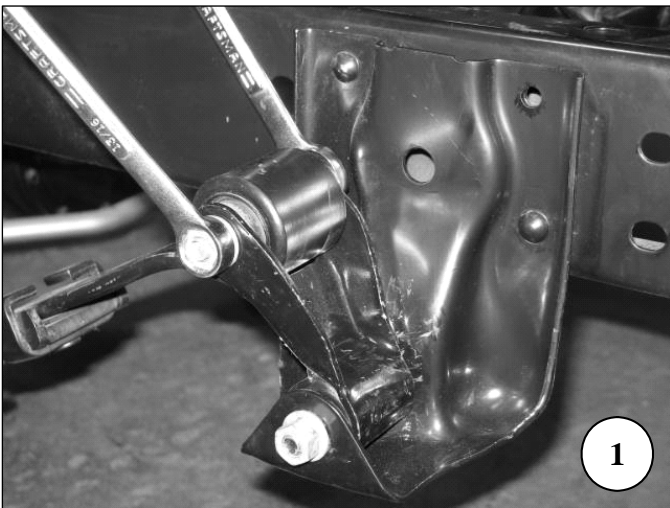
## **SPECIAL INSTRUCTIONS**

### **For the 6406 shackles**

- When installing the 6406 shackles you must fold the bed flange to one side or trim the flange for adequate shackle clearance (Photo 4).
- It is helpful to bolt the shackle to the hanger and swing it thru its range of motion to see where the flange needs to be modified.

## PART LIST FOR LOWERING SHACKLE KITS and/or SPACERS KITS

Part Number	Description	Qty
6400-100	2" Lowering Shackle	2
6403-100	3" Lowering Shackle	2
6404-100	1/2" Lifting Shackle	2
6405-100	1" Lowering Shackle	2
6406-100	2" Lowering Shackle	2
6425-010	2" Lowering Shackle	2
6590-010	2" Lowering Shackle	2
6700-100	1" Lowering Shackle	2
6702-100	Shackle	2
6401	Shackle & Spacer	2/8





## SPECIAL INSTRUCTIONS

### **For the 6401 SPACERS**

- When installing the 6401 SPACERS, simply loosen the four (4) ubolt nuts, remove the top spacer block, add the four (4) new spacers, re attach the four (4) nuts. Torque to manufacturers specifications. See photos below.



**TOP SPACER BLOCK**



**NEW SPACERS**





## INSTALLATION INSTRUCTIONS

### 4955 FRONT CAMBER BUSHINGS GMC 2WD/4WD

**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.
- Warning:** This install **requires specialty tools** and should be taken to an alignment shop for proper installation
- 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 set
- Torque wrench: *0-300 lb ft. range*
- Ratcheting socket wrench and sockets sets
- Safety Glasses
- Bushing press with GM bushing adapters.

#### **KIT INSTALLATION**

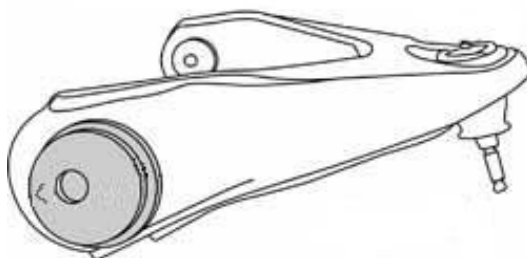
1. Open the hardware kit and remove all of the contents. Refer to the part list (**Page 3**) to verify that all parts are present.
  2. Park the vehicle on a smooth, level concrete or seasoned asphalt surface and activate the parking brake. Block the REAR wheels of the vehicle with appropriate wheel chocks; making sure the vehicle's transmission is in 1<sup>st</sup> gear (manual) or "Park" (automatic). Using a properly rated floor jack, lift the front 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. Slowly lower the vehicle onto the stands and, before placing the vehicles 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.

## 1. STEERING KNUCKLE REMOVAL

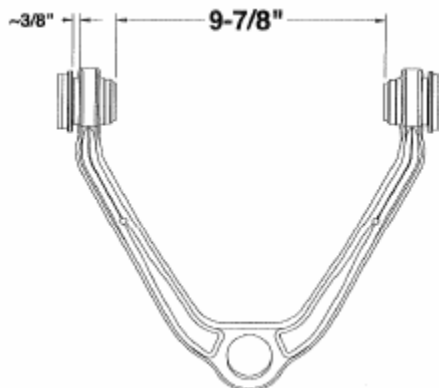
- a) Remove wheel assembly.
- b) Remove upper control arm from vehicle using manufacture's recommended procedure. Follow all safety precautions.

**The follow steps require special bushing press equipment and should only be performed by a professional with such equipment.**

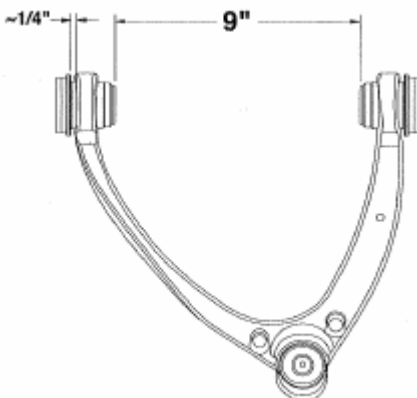
- c) With upper control properly supported in a vise, push the OEM bushings out with the proper tools.
- d) Install the new Belltech bushings into the upper control arm where the OEM bushings were removed with arrow reference notches pointing away from the ball joint in line with the control arm. Failure to follow this may result in poor handling and premature bushing wear.



- e) For **1999-2006** vehicles the distance between the two inner faces of the bushings should be  $9\frac{7}{8}$ ". Make sure the bushings are centered in the arm.



- f) For **2007 up** vehicles the distance between the two inner faces of the bushings should be 9. Make sure the bushings are centered in the arm.



- g)** Reinstall upper control arm using manufacturer's recommended procedure.
- h)** Reinstall wheel assembly and torque wheel lugs to manufacturer's recommended specifications.
- i)** Reset vehicle alignment to manufacturer's recommended specifications.
- j)** Road test vehicle.

**PART LIST FOR 4955 FRONT CAMBER BUSHINGS**

<b>PART#</b>	<b>DESCRIPTION</b>	<b>QTY</b>
4955-001	FRONT CAMBER BUSHINGS	4