



## INSTALLATION INSTRUCTIONS

6800

### REAR LOWERING KIT

73-87 ½ TON C-10

**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: *0-75 lb ft. range*
- Ratcheting socket wrench and socket sets
- Air Chisel / Die grinder W/ cut off wheel
- Safety Glasses

#### **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 asphalt or concrete surface. Place a block in front of and behind the front wheels. Jack up the rear of the vehicle and place jack stands securely under the frame in the manufacturer's specified locations. Remove the rear wheels.
3. For better access to the rear suspension and to simplify the installation procedure we recommend the removal of the bed from the truck. (See note in step 12) There are eight large nuts that hold the bed to the frame, which must be removed. Gas and filler neck(s), and electrical wiring must be disconnected first. Prior to removal, be sure and check.
4. Block the front wheels and raise the rear of the truck using a hydraulic floor jack under the center axle. Place the frame on jack stands just ahead of the front spring hangers, and remove the wheels from the truck. (Photo 1)
5. Remove the lower shock mounting hardware, so the shock is free from the rear end. Lower the jack so that all the pressure is off of the leaf spring assemblies. **CAUTION: Leaf springs are under tension, use caution when disconnecting.**

6. Remove the bolts and nuts from the front spring hangers. (Photo 2) Lower the jack so the front of the springs free themselves from the hanger. (Photo 3) **CAUTION:** Do not let the rear axle drop to the point where the brake lines and/or drive shaft are strained. You may want to use a jack stand to support the rear end housing at this point.
7. The rivets must be removed from the stock hanger. This can be done several ways. Shown is the use of an air chisel. (Photo 4) Cutting a slot in the head of the rivet aids in the removal of the rivet head. (Photo 5) Grinding the heads off rivets is an alternative method.

**CAUTION: Always wear eye protection when using power tools.**

8. The rivets that are hard to reach from the outside can be removed from the inside of the frame. (Photos 6 & 7)
9. Remove the stock hanger from the frame; make sure all the rivets are out of the frame. (Photos 8, 9 & 10)
10. The mounting holes on the frame must be opened up to 7/16" by drilling through the frame. (Photo 11) **CAUTION: Always wear eye protection when using power tools.**
11. Install the new Belltech hanger on the frame using the hardware supplied and tighten securely. (Photos 12 & 13) The new hanger uses four of the existing six stock holes. The upper two and the lower two. (Photo 14)
12. Once both hangers are in place, raise the axle so the fronts of the springs locate themselves in the new hangers. Replace the stock spring mounting hardware. (Photo 15) **DO NOT** tighten the spring eyebolts at this time.
13. Position the rear axle so there is no pressure on the leaf springs at the rear shackles. (Photo 16) Remove the shackle bolts and springs. (Photo 17) **CAUTION: Leaf springs are under tension, use caution when disconnecting.**
14. Install the new Belltech shackle into place. Replace the stock bolts and nuts into place on the shackle springs. (Photos 18 & 19) **DO NOT** tighten at this time.

**NOTE:** On the fleet side model of the C-10 truck, there is a sheet metal bed rail under the bed floor. Because of the length of the new shackle, this must be notched for clearance. (Photo 20) If the bed was not removed for installation this step must be done prior to step # 12.

15. Using one of several methods (cutoff saw, jig saw, plasma cutter) notch the bed rail to allow enough clearance for the top of the new shackle and shackle bolts. Measuring from the outside of the bed rail in, mark cut lines from the 11" to 18" marks. (Photos 21, 22 & 23) Debur the sharp edges left by cutting. **CAUTION: Always wear eye protection when using power tools.**
16. Re-install the lower shock mount and the hardware into its location on the axle. Belltech Nitro Drop Shocks should be installed to replace the stock units at this time.
17. Once both hangers and shackles are in place on the frame, jack up the rear end just until the jack begins to lift the truck off the stands. Now tighten the front and rear spring eye bolts on the hangers and shackles. (Photo 24)
18. If the bed was removed it can now be installed onto the truck. Check to make sure that there is enough clearance for the shackle and hardware. (Photo 25) Be sure to replace all electrical wires and filler neck hose(s) and hardware. Install the wheels and tires.

19. Raise the vehicle off the stands carefully, remove the stands and slowly lower the vehicle to the ground. Your installation is now completed.

### **PART LIST FOR 6800 CHEVY C-10**

#### **REAR LOWERING KIT**

<b>PART No.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
6800-010	FRONT SPRING HANGERS	2
6700-100	REAR SHACKLES	2
110650	7/16" X 1.25 HHCS	8
110303	7/16 STOVER LOCK NUTS	8
110645	7/16 SAE FLAT WASHERS	16









