

# TERAFLEX

## INSTALLATION GUIDE

# Installation Guide for the Cherokee 1.5-inch Budget Boost Kit (BB1X)

Think safety first when installing this kit.

### **Component list**

Please check the components in your kit prior to beginning installation. Each kit should include:

- 2 Rear shackles
- 2 Front spring spacers
- 4 Flat washers (1/2")
- 2 Bolts (9/16" x 4.5")
- 2 Nuts (9/16")



### **Special Notes:**

- *This kit may cause driveline vibrations in some 1998 and newer Cherokees. Rear axle shim wedges or slight lowering of the transfer case may be necessary after installing the BB1X on some models.*
- *It is the customers responsibility to insure that all mounting hardware is correctly tightened before, during, and after the use of a spring shackle lift. DO NOT EXCEED the load specifications for your vehicle. Always operate in a safe manner.*
- *If your vehicle is equipped with any type of extra-duty suspension, or special towing package, this spring shackle kit may not fit properly.*
- *If your vehicle is equipped with any type of aftermarket springs, lift kits, or bushings, this kit may not fit properly.*
- *On some applications the rear exhaust pipe will come in contact with the longer shackle and bolt. It will be necessary to have the exhaust re-aligned or adjusted to clear the shackle bolt.*

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## Getting Started

This kit contains components for both the front and rear of the vehicle. Spring spacers will be placed above the coils on the front. Shackles will be added to the rear leaf springs.

### *Front Spring Spacers*

1. Jack up the vehicle by the frame and secure with jack stands.
2. Remove the lower track bar bolt. Remove the shocks.
3. Remove the sway bar links. Remove the factory rubber spring insulators.
4. Remove the spring.
5. Place the new spring spacers above the springs.

Note: Installing the factory rubber insulator between the new spacer and the spring will provide additional ride height. This may cause the front to be lifted more than the rear.

6. Reinstall the springs and shocks. Reconnect the sway bar links and lower track bar. Torque to factory specifications.

Note: Alignment is not generally necessary after installing this kit.

### *Rear shackle installation*

7. Place the vehicle on a clean, level working area. Set the emergency brake and block tires on the side of the vehicle opposite of the side you will be installing the shackle. Be sure the vehicle will not roll.

Note: Do not use power impact or air ratchets to tighten nuts. Lock nuts with nylon inserts (aircraft style) should only be tightened by hand with a wrench.

8. Using a floor jack, lift the rear of the vehicle until the wheels clear the ground by at least three inches. Place jack stands under frame rail just behind the inner spring perch. Lower the vehicle onto jack stands, but keep the axle supported with the floor jack.
9. While the axle is being supported by the floor jack, remove the stock shackles and hardware. Carefully release the pressure on the floor jack until the wheels rest on the ground.

10. Examine the upper spring perches (also referred to as frame spring shackle mounts) on both sides of vehicle for any damage. If any damage is noted, it must be repaired to "new" factory original condition before this spring shackle kit can be installed.

11. Examine the upper spring perch bushings on both sides of vehicle for any damage or excessive wear. If any damage is noted, the bushing must be replaced with new, factory-original units.

12. Install spring shackle lift and hardware to upper spring perch or frame mount or bushing. DO NOT FULLY TIGHTEN at this time.

13. Using the floor jack, raise the axle until the leaf spring and bushing fit inside the new shackle unit. Insert the bolt with washer through shackle and spring bushing. Install washer and nylock nut.

Note: If the bolt seems to "hang up" and bolt will not go through both sides of shackle, adjust hole alignment by lifting or lowering axle and spring with floor jack or reinsert bolt and washer from the opposite side. DO NOT POUND bolt through the holes. This could result in damage to the bolt, shackle, and/or bushing.

14. Check your factory repair manual for proper torque specifications. Be sure the torque specifications are for the proper year, make, and model of your vehicle. Tighten to proper factory specifications. Be careful to not overtighten bolts. Damage to shackle or vehicle can result.

15. After all steps have been completed on both sides of the vehicle, the installation is complete.

16. On some applications the rear exhaust will come in contact with the shackle bolt (see photo). It will be necessary to have the exhaust re-aligned or adjusted to clear the shackle bolt.

