

INSTALL INSTRUCTIONS:
Cognito Rear Lift Block
and U-Bolt Kit

PARTS LIST			
QTY.	PART #	DESCRIPTION	
2	Axle Block	Rear lift blocks	
4	U-Bolt	Extended length U-bolts with 2 washers and 2 nuts	



WARNING

Please read this entire instruction sheet before beginning installation. Proper installation of these components requires a qualified mechanic. Always wear safety glasses when using power tools, and take appropriate precautions when working under a vehicle. If these instructions are not properly followed you may jeopardize your, and your passenger's safety, and severe frame, suspension or tire damage may also result from improper installation.

REQUIREMENTS

- Installation requires a qualified mechanic.
- Read instructions carefully and study the pictures before attempting installation.
- Secure and properly block vehicle prior to beginning installation.
- Always wear safety glasses when using power tools.

TECHNICAL INFORMATION

- Foot-pound readings are listed on the Torque Specification Chart at the end of the instructions.
- Exhaust modification may be necessary.
- Drive line modification may be necessary.

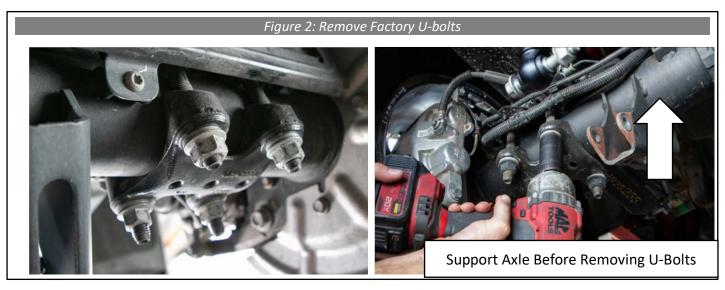
INSTALLATION

1. Park vehicle on level ground. Mark the slip yoke on the drive shaft where it comes out of the tail housing and measure how far it is from the tail housing (See Figure 1). You will need this mark later to determine how long to lengthen your drive shaft. Record your measurement here:

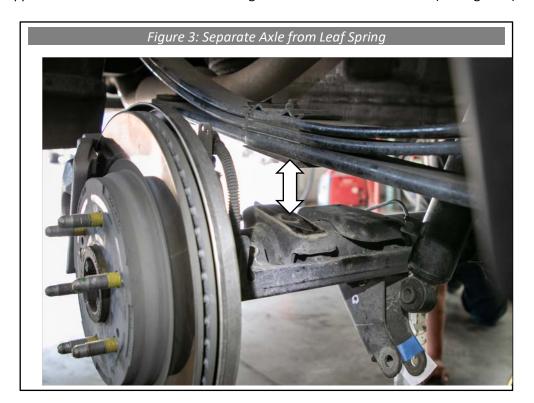


- 2. Now, properly lift the vehicle by the frame so that the rear wheels are off the ground and the suspension is at full droop. Never work on an unsupported vehicle.
- 3. Remove the rear tires.
- 4. If brake line length is needed, remove any clamps or brackets holding the OEM brake lines in place.
- 5. If using OEM brake lines, check to make sure they will not be overextended when the suspension reaches full droop. Modifications to the OEM brake line brackets might be necessary. If purchased aftermarket extended brake lines, install them now referencing instructions if provided. Make sure to thoroughly bleed the brakes and void any air from the system and check for leaks.

6. Support one side of the rear axle and remove the U-bolt nuts from that side of the vehicle. Remove the factory U-bolts and discard them with the nuts (See Figure 2).



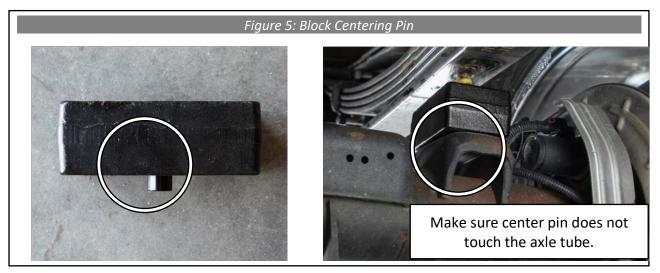
7. Lower the support under the axle until there is enough room to install the lift block (See Figure 3).



8. New U-bolts may be larger in diameter than the factory ones depending on the vehicle. Make sure the new U-bolts fit through the U-bolt plate. Drill the 4 holes in the U-bolt plate out to the proper size if needed (See Figure 4).



9. The centering pin on the block should fit snugly into the hole on the spring perch which is welded to the rear axle housing. Be sure that the pin is not too long and touching the axle housing tube. If necessary, trim the length of the pin to prevent this (See Figure 5).



10. If the block is tapered, the tall end needs to be towards the <u>rear</u> of the vehicle. This will pitch the pinion angle up toward the transmission. If the block is straight, the hole on the top of the block may be offset from the centering pin on the bottom. If this is the case, orient the block so that the pin is offset <u>forward</u> of the pin in the leaf pack. The centering pin on the leaf pack should fit snugly into the hole in the top of the block (See Figure 6).

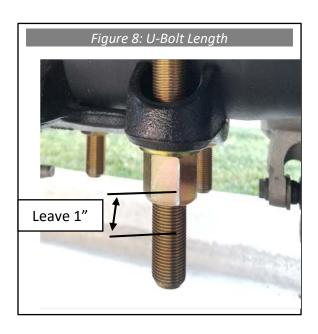


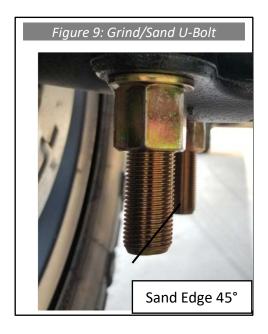
11. Use the extended length U-bolts and re-assemble the U-bolt system with the U-bolt plate on top of the spring pack and the U-bolt lower plate under the rear axle just as they were before disassembly. Apply anti-seize to the threads of the U-bolts before installing the nuts (See Figure 7).



12. Repeat steps 6 - 11 for the opposite side of the vehicle.

13. Some kits may have U-bolts that are long and will extend too far past the nut after installed and will need to be trimmed in order to get a socket on them to properly torque or to maintain max ground clearance. If this is the case, cut the bottom of the U-bolt leaving approximately 1" of threads extending past the nut (See Figure 8). Make sure the nut is threaded on past the cut line if you remove the bolt from the install position to cut it. This will help straighten out the threads on the cut edge and make reinstalling the nut much easier. Use a grinder/sander to add a 45° chamfer to the cut edge before removing the nut (See Figure 9). Always use safety glasses when cutting.





- **14.** Torque the U-bolt nuts to the specified torque spec in the chart at the end of these instructions (See Table 1). Be sure to tighten the nuts evenly on all the U-bolts so that the amount of thread protruding is about the same.
- 15. Install new rear shocks at this time.
- **16.** If your block is tapered, add **1** extra quart of gear oil to properly oil the pinion gear.
- 17. Re-install rear wheels and set the vehicle back on the ground.
- **18.** Retake the measurement from step **1** and record it here: ______. Subtract the first measurement from this one. If the difference is more than **1.5**", you will need to have your driveline lengthened by that amount.

TORQUE SPECIFICATIONS

Table 1

Bolt Size	Torque (ft-lb)
9/16	90
5/8	100
3/4	120