



Cognito Motorsports, Inc. Upper Control Arm Kit for 2007-Present GM 6-Lug

SKUs: 110-90293 & 110-90295

Introduction

- Installation requires a qualified mechanic.
- Read instructions carefully and study the pictures (if included) before attempting installation.
- Check the parts and hardware packages against the parts list to assure that your kit is complete.
- Always wear safety glasses when using power tools. Some cutting is required.
- This upper control arm kit will fit on a stock vehicle with factory wheels and tires. Larger than factory tires will not fit on factory wheels without rubbing the control arms.
- Due to the difference in factory packages (cab, engine, and transmission configuration), the spring rates may be different and it could take more than one shock adjustments to get the desired ride height.

Parts List

UCAK100047

- (1) #8187 Driver upper control arm
- (1) #8188 Passenger upper control arm
- (2) #6136 Heavy duty ball joint
- (1) #HP9047 Hardware package

UCAK100045

- (1) #8187 Driver upper control arm
- (1) #8188 Passenger upper control arm
- (2) #6292 Heavy duty ball joint
- (1) #HP9047 Hardware package

Installation Instructions

1. Remove the factory upper control arms by supporting the lower control arms with a floor jack or some kind of stand used in a safe fashion. Loosen the ball joint nut of the upper control arm enough until you can spin the nut with your fingers, but do not remove totally, and use a pickle fork to separate the ball joint from the spindle, or tap

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on the side of the spindle next to the ball joint stud. When the tapered seat of the ball joint breaks loose, you may then remove the ball joint nut, and separate the factory upper control arms from the spindles.

2. Remove the factory bolts and eccentric washers that connect the control arm to the frame, but retain them for future use. Place them aside in order so they can be re-installed in the same place they came off. The plastic inserts will need to be removed and discarded from the eccentric washers.
3. Mount the supplied ball joints with the 5/16" bolts, flat washers, and locknuts provided in Hardware Package 9047 to the top of the ball joint pocket of the Cognito upper control arms. Use anti-seize lubricant on the threads. Tighten all hardware in this step to 22 ft-lbs. of torque.



4. From the hardware package, insert the polyurethane bushings, crush sleeves, and grease fittings into the ends of the Upper control arms. Do not over tighten the grease fitting, tighten until it is snug. Use WD-40 to aid installation of bushings and use grease to aid installation of sleeves. See figure below.



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5. The service perch that is welded to the front upper control arm pocket must be cut out to allow room for the Cognito upper control arm and the extra down travel it is capable of. Use a cutting wheel or reciprocating saw to cut the bracket off where it is welded to the frame pocket. Use eye protection!
6. Mount the Cognito upper control arms to the frame with the factory nuts, bolts, and eccentric washers as previously removed. Torque alignment nuts to 90 ft-lbs.
7. Mount the ball joint to the spindle with supplied hardware. Use the appropriate flat washers supplied if the castle nut needs to be spaced in order for the cotter pin to engage, and tighten to no more than 50 ft-lbs. of torque, making sure the cotter pin hole will line up with the castle nut notch. You may have to chase the small end of the tapered hole with a 1/2" drill bit for 110-90295 (Old SKU: UCAK100047) or a 9/16" drill bit for 110-90293 (Old SKU: UCAK100045) because the factory ball joint is a metric thread and the aftermarket ball joint is an American thread. Insert the cotter pin and bend ends around the nut to secure.
8. Grease the ball joint until the dust boot starts to swell. Grease the a-arm pivot bushings also. If you do not grease these items, premature wear will result on these items!
9. If there were factory lines mounted to the factory upper control arms such as ABS or brake lines, they must be restrained as to avoid binding and contact with any moving parts of the vehicle. Use the 1/4" hardware provided to fasten the factory brake line bracket to the Cognito upper control arm. If necessary, slide the brake line through the bracket to obtain a suitable mounting situation. Use the small tabs on the control arms to restrain the ABS line as needed.
10. If extra length is needed for the ABS line, remove the abs line clip from the top of the frame shock pocket and use the cable ties to restrain the abs line to the brake line and tabs as needed. Double check the clearance of both the brake lines and the abs lines after the install while the truck is on the ground through the complete steering cycle. Be sure there is no rubbing or loose cables anywhere.
11. Have the vehicle's front end professionally aligned to the vehicle, or lift kit (if it is lifted) manufacturer specification.

WARRANTY / RETURN POLICY / SAFETY

Cognito Limited Lifetime Warranty

Cognito Motorsports, Inc. hereinafter “Cognito,” warrants to the original retail purchaser, that its suspension products are free from workmanship and material defects for as long as the purchaser owns the vehicle on which the product(s) were originally installed. This warranty will be void if any modifications are made to the components, including alterations to the surface finish, i.e.; painting, powder coating, plating, and/or welding, or if they are improperly installed. Cognito truck suspension products are not designed nor intended to be installed on “competition” vehicles used in race applications, stunt or for exhibition purposes that are outside of the intended operating conditions specified by the manufacturer. Racing and competition are defined as any contests between two or more vehicles; or vehicles competing individually on off road circuits in timed events (whether or not such contests are for an award or prize).

This warranty does not include coverage for police, taxi, government or commercial vehicles, and the warranty does not cover Cognito products sold outside of the USA. Cognito’s obligations under this warranty are specified and applied at its sole discretion, and warranty coverage is limited to repair or replacement of the defective product(s). Any and all costs of removal, installation or reinstallation; freight charges, incidental or consequential damages associated with the covered products are expressly excluded from this warranty.

The following items are exempt from Cognito limited warranty coverage: bushings, bump stops, tie-rod ends (Heim joints) and limiting straps. These parts are “consumables” and designed to wear as a normal part of their duty cycle, therefore they are not considered defective when worn. The aforementioned products are warranted separately against defects in workmanship, for 60 days from the date of purchase. As a condition of warranty validation, respective Cognito suspension components must be installed as a complete system (not combined with non-Cognito hardware or ancillary parts). Any substitutions or omission of required components will void the warranty. Some minor cosmetic wear and imperfections may occur to parts during shipping, which is not covered under this warranty. This limited warranty does not apply to any components that have been subjected to collision damage, negligence, alteration, abuse, or misuse, and coverage does not extend to products manufactured by third-party companies. Cognito reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of its parts when deemed necessary, without notice.

Return Policy

Product returns will not be accepted without prior written approval from an authorized Cognito representative. All products being returned must be shipped via trackable, prepaid freight. Returned products are subject to a 25% percent restocking fee. The eligible return period for products purchased directly from Cognito is 30 days from the verified date when the product(s) were originally received by the purchaser.

Product Safety Advisory

The installation of Cognito steering and suspension components will modify your vehicle’s original factory equipment and geometry, which may cause it to handle differently than a stock (unaltered) vehicle. Installation of these components is not intended to strengthen nor reinforce the vehicle’s frame, nor are they designed to increase rollover protection. It is necessary to periodically inspect all suspension and drive train components for proper attachment, torque specifications, operation, and for any potential unusual wear or damage. Installation of these parts will modify the height of the vehicle and may raise the center of gravity. Modifying vehicle height combined with off road operation may increase your vehicle’s susceptibility to rollover conditions, which may cause serious injury or death. Many states regulate allowable vehicle height modifications, and it is your responsibility to know and comply with the legal requirements specified by the laws where you reside. Modifications to your vehicle’s ride height may also affect the ride quality, driver input response, trackability and handling, and wear to your vehicle’s suspension components and tires.