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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.

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.
- This ball joint is used in several different Cognito control arm kits and depending on the application will drop thru the hole and bolt to the top of the arm; or mount from underneath the arm. Refer to the instructions for your particular control arm kit to determine which side of the arm the ball joint needs to bolt to, this is very important!

INSTALLATION

1. When removing the worn upper ball joint from the upper control arm while the arm is still attached to the vehicle, jack up the frame so the front tire is almost off the ground. This will allow you to disconnect the ball joint from the spindle while keeping control of the tire from leaning toward the chassis once the joint is disconnected. Optionally you can remove the front tire, so it is out of the way altogether.
2. Use a pickle fork ball joint tool to separate the taper seat of the ball joint from the spindle.
3. Unbolt the ball joint from the upper control arm. Clean up all mating surfaces before bolting on the new upper ball joint.
4. Use new mounting hardware, may not be included with this ball joint, to bolt the ball joint to the upper control arm, be advised that different arm kits have the ball joint bolt to the top or the bottom of the control arm. Take the time now to make sure you are bolting the new joint to the proper side of the arm for your application. This is very important for alignment and for clearance. Tighten the 5/16 fasteners to 22 ft-lbs./29.83 N·m.
5. Mount the ball joint stud to the spindle with supplied hardware. Use flat washers if the castle nut needs to be spaced in order for the cotter pin to engage, and tighten castle nut to the following torque spec's based on stud size:
 - 1/2" thread (70 ft-lbs./92 N·m.)
 - 9/16" thread (90 ft-lbs./122 N·m.)
 - M12 x 1.5 thread (70 ft-lbs./92 N·m.)
 - M14 x1.5 thread (100 ft-lbs./130 N·m.)*Make sure the cotter pin hole will line up with the castle nut notch. Insert the cotter pin and bend ends around the nut to secure.
6. (If equipped with Zerk fitting(s)) Grease the ball joint until the dust boot starts to swell.
(If equipped with Zerk fitting(s)) Grease the a-arm pivot bushings also. If you do not grease these items, premature wear will result on these items!
7. Have front end alignment checked.

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.