

Cognito Press-in Ball Joint

INSTALL INSTRUCTIONS:
Cognito Press-in Ball Joint
PARTS LIST FOR SKU: 199-90732

| QUANTITY | PART # | DESCRIPTION |
|----------|-------------------------|---|
| 1 | 90732 | Cognito Press-in Ball Joint |
| 1 | HARDWARE-SPIROLOX-2.375 | 2.375" Spirolox Internal Retaining Ring |

PARTS LIST FOR SKU: 199-90788

| QUANTITY | PART # | DESCRIPTION |
|----------|-------------------------|---|
| 1 | 90788 | Cognito Press-in Ball Joint |
| 1 | HARDWARE-SPIROLOX-2.375 | 2.375" Spirolox Internal Retaining Ring |

INTRODUCTION

The Cognito maintenance free press-in ball joint is a convenient and easy-to-install replacement part designed to work with your Cognito upper control arms. This is the same ball-joint that is pre-installed in many of our high-quality control arms which feature a corrected ball joint angle for lifted and leveled applications.

REQUIREMENTS

- Installation requires a qualified mechanic.
- Always wear safety glasses when using power or hydraulic tools.
- Read instructions carefully and study the pictures before attempting installation.
- Check the parts and hardware packages against the parts list to assure that your kit is complete.


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.

TOOLS REQUIRED

- Ball Joint Service Kit or Hydraulic Press
- Press Tools
- Deburring Tool
- Flat Head Screwdriver
- Grease

1. Support the vehicle on a lift or on jack-stands and remove the front wheels and tires.
2. Use a pickle fork ball joint tool or a hammer to separate the taper seat of the ball joint from the spindle.
3. If a ball joint service tool is being used, the worn ball joint can be removed while the arm is still attached to the vehicle. If using a hydraulic press, the arm must be removed.
4. Remove the Cognito cap from the upper control arm (UCA). Place a flat head screwdriver in the notch of the cup to gently pry the cap loose, see Figure 1.
5. Locate the internal retaining ring seated within one of the two grooves inside the cup. Use a flat head screwdriver to unseat the retaining ring from the groove, see Figure 2.
6. Using a ball joint service kit or a hydraulic press, remove the ball joint from the cup.

Note: The rubber boot will most likely be damaged during this step if it is not removed from the ball joint prior to pressing it out.

7. Inspect the cup for any major damage and clean out any debris, dirt, or grime before proceeding to the next step.
8. Deburr the edge of the UCA's cup and apply grease to the inside of the UCA's cup, see Figure 3. This will ensure the new ball joint's rubber boot does not catch on the edge of the cup and tear during installation.
9. Insert the Cognito Press-in Ball Joint into the UCA's cup. Ensure that it is straight and carefully press it in.

Note: Ensure that the rubber boot is not catching on the inner edge of the UCA's cup as it is being press through.

10. Install the Spirolox internal retaining ring into the **second groove down** (farthest away from the top of the cup where the cap is placed), see Figure 4. Ensure it is fully seated.
11. Install the Cognito cap back onto the UCA.
12. Have the front-end alignment checked.

Figure 1: UCA Cap Removal



Figure 2: Internal Retaining Ring Removal



Figure 3: Deburr and Grease

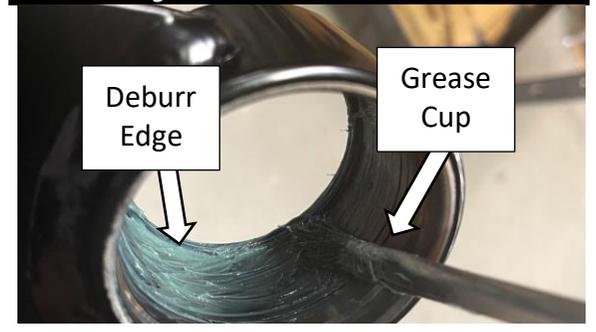


Figure 4: Internal Retaining Ring Install





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.