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COGNITO 1.5” to 3.5” Elite Billet UCA Leveling Kit with COGNITO 2.5 CO RR Front & 2.5 PB Rear Shocks for GM 2019+ 1500 2WD/4WD

## INSTALL SUMMARY SHEET:

**COGNITO 1.5” to 3.5” Elite Billet UCA Leveling Kit with COGNITO 2.5 CO RR Front & 2.5 PB Rear Shocks for GM 2019+ 1500 2WD/4WD**
**SKU: 110-P1406**



## COMPONENTS INCLUDED:

| QUANTITY | PART # | DESCRIPTION |
|---|---|---|
| 1 | 110-91399 | COGNITO 2019 GM 1500 Billet UCA Kit |
| 1 | 110-91357 | COGNITO 2019+ GM 1500/SUV Front 2.5 RR Coilover Kit |
| 1 | 110-91359 | COGNITO 2019+ GM 1500 Rear 2.0 PB Pair Shocks |
| 1 | HP9324 | GM ARC System |

## CAUTION VEHICLES w/ ADAPTIVE RIDE CONTROL

On this generation of trucks GM moved to a new type of active suspension that is only present in the Denali, High Country and Custom trim trucks. This new system is called Adaptive Ride Control or ARC for short.

This kit will require the ARC system to be bypassed as outlined in the instruction included with HP9324.

Vehicle without the ARC system, HP9324 can be discarded.

If unsure that the vehicle in question is equipped with the ARC system, the instructions in HP9324 can help with that.

## INTRODUCTION

Thank you for purchasing the COGNITO Elite Leveling Kit with COGNITO 2.5 Coilover RR front & 2.5 PB rear shocks. This kit is designed to level your vehicle and provide added droop travel with the COGNITO Ball Joint Billet Series Upper Control Arm Kit. This kit includes COGNITO RR Shocks for all 4 corners ensuring improved ride quality and satisfaction.

## 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.**
**Modification of vehicle suspension can interfere with ride-height sensors, active suspension, lane departure features, semi-autonomous, and autonomous driving features. It is the responsibility of the installer to determine feature compatibility prior to installation. Recalibration of sensors may be required in the event of any modification.**

## WARNING: VEHICLES WITH SUPER CRUISE SYSTEM

**If your vehicle came equipped with the Super Cruise, hands free driving system, the vehicle *SHOULD NOT BE MODIFIED*.**
**The Super Cruise system relies on many sensors that must be calibrated by the manufacturer to ensure proper function and safety. If the vehicle is modified by changing the height or rake of the vehicle these sensors are no longer calibrated. At that point the system will no longer work properly, and safety or function of the system cannot be guaranteed.**

## REQUIREMENTS:

- Installation requires a qualified mechanic.
- Follow the OE specifications when replacing or re-installing OE fasteners, retainers, and hardware specified in the OEM service manual.
- Always wear safety glasses when using power tools.
- When a lift is required to perform the installation of these products ensure the vehicle is properly supported before attempting installation or serious injury may occur.

## TECH NOTES:

- Your COGNITO shock assemblies come factory charged to 200 psi. Releasing nitrogen pressure may lead to shock malfunction and reduced ride quality. Failure caused by low nitrogen pressure is not covered under icon's warranty policy.
- Cutting of the OEM frame and suspension components is required.
- Trimming of front bumper trim may be necessary based off tire size.
- Front-end alignment will be required after completion.
- This kit requires advanced mechanical procedures that should only be performed by a qualified mechanic.
- Proper vehicle lifting equipment is required. Always make sure the vehicle is properly supported and **never work under an unsupported vehicle.**
- Check the parts and hardware packages against the parts list in each instruction set to assure that your kit is complete.
- Read instructions carefully and study the pictures (if included) before attempting installation.
- If this product was purchased as part of a bundle/package, familiarize yourself with each set of instructions included with the bundle/package before beginning.
- Be sure to read though all install instructs include with this kit prior to attempting instillation and heed all warnings, failure to comply with all warnings and requirements can lead to an accident and serious injury.
- Estimated install time: 3-4 hours.

This Kit Install Summary will guide you through the **necessary order of steps** to install each of the individual components that comprise this kit.

The proper installation of this combination of products is dictated by the necessary sequence in which each component must be installed to avoid access, interference or clearance issues that will result in unnecessary disassembly and reassembly and potential safety hazards.

This document will guide you through the sequence of operations, which includes preparatory work and the prescribed order for installing components – by referring you to the individual instructions packaged with each Cognito component for detail on how each kit component is properly installed.

**YOU MUST FOLLOW THESE STEPS IN SEQUENTIAL ORDER FOR PROPER INSTALLATION OF THIS KIT.**

**REVIEW TECHNICAL NOTES AND REQUIREMENTS OF THE INDIVDUAL INSTALLATION INSTRUCTION SHEETS INCLUDED WITH THIS KIT BEFORE BEGINNING.**

## INSTALLATION

1. Begin by locating the 4 instruction sheets **7415**, **110-91399**, **110-91356** and **110-91358** included with this kit. You will need them all to do this install. If instructions are missing or damaged, contact Cognito Motorsports for where to find replacements.

2. Begin working in the front of the vehicle, reference install sheet **110-91399**. Check to make sure all parts on the parts list are accounted for. Work through the instructions until the OEM upper control arms have been removed and the service perch has been removed. Proceed to next step once complete.

3. Support the lower control arm and remove the OEM front strut. Retain the lower mounting hardware for reuse but the upper mounting hardware may be discarded.
   - **ARC VEHICLE NOTE:**
     Prior to removing the OEM shocks unplug the wiring harness connectors from the shocks.
     Retain the OEM shock until install is complete, parts are required to be removed from them.

4. Reference instruction sheet **110-91356** to install the front coilover shocks. Work through the step until the shocks are installed onto the vehicle.

5. Refer back install sheet **110-91399**, pick up were the install left off and work through until completion.

6. **ARC VEHICLES**: Reference install sheet **7415** for ARC bypass instructions and work through until completion.

7. Moving to the rear of the vehicle, support the rear axle, remove the rear OEM shock and retain the hardware for reuse.
   - **ARC VEHICLE NOTE:**
     Prior to removing the OEM shocks unplug the wiring harness connectors from the shocks.
     Retain the OEM shock until install is complete, parts are required to be removed from them.

8. Reference instruction sheet **110-91358** to install the rear shocks. Work through the step until the shocks are installed onto the vehicle.

9. Cycle the steering from lock to lock checking to make sure there are no issues with the reservoir hoses binding, chaffing, or other interference or general clearance issues. Make any adjustments as needed and repeat the step until there are no issues.

10. Cycle the suspension through the full travel from full droop to the bump stop checking to make sure there are no issues with the reservoir hoses binding, chaffing, or other interference or general clearance issues. Make any adjustments as needed and repeat the step until there are no issues.

***This completes the installation steps, enjoy your new COGNITO 3" Elite Leveling Kit!***

## 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 warrantied 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.

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