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COGNITO 4” Elite Lift Kit with King 2.5 RR Shocks for GM 2020+ 2500HD/3500HD 2WD/4WD

INSTALL SUMMARY SHEET:

COGNITO 4” Elite Lift Kit with King 2.5 RR Shocks for GM 2020+ 2500HD/3500HD 2WD/4WD
SKU: 510-P1179



COMPONENTS INCLUDED:

QUANTITY	PART #	DESCRIPTION
1	110-70121	COGNITO 4” Spindle Component Box for 2020 GM 2500HD/3500HD 2WD/4WD
1	110-70122	COGNITO 4” Non-Torsion Drop Component Box for 2020 GM 2500HD/3500HD 2WD/4WD
1	110-70123	COGNITO 4” 4WD Component Box for 2020 GM 2500HD/3500HD
1	110-70142	COGNITO 4” Sub Frame Component Box for 2020 GM 2500HD/3500HD 2WD/4WD
1	110-90772	COGNITO Pitman and Idler Support Kit
1	110-90897	COGNITO 2” Block and 17.5” U-Bolt Kit (cast/straight)
1	510-91069	King 2.5” Front Remote Reservoir Shock Kit
1	510-91070	King 2.5” Rear Piggyback Reservoir Shock Kit
1	80000	COGNITO 2020 GM 2500HD/3500HD SM UCA DRVR
1	80001	COGNITO 2020 GM 2500HD/3500HD SM UCA PASS

TOOLS REQUIRED:

Floor Jack Jack Stands Torque Wrench	18mm Socket / Wrench 21mm Socket / Wrench

INTRODUCTION:

Thank you for purchasing the COGNITO 4” Elite Lift Kit. This kit is designed to lift your vehicle and provide added droop travel. King 2.5” Remote Reservoir Shocks are included 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.

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:

- Unloading of the torsion bars is required, torsion bar loading tool is required for this installation.
- 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.
- Only the shocks supplied in this kit can be used with this lift package.
- This lift kit may only be installed on a truck that has not already been lifted or leveled. You cannot stack leveling kits or shock spacers.
- 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.

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 **7024**, **7244**, **110-90910** and **7271** included with this kit. You will need them both to do this install. If instructions are missing or damaged, contact Cognito Motorsports for where to find replacements.
2. Start with instruction set **7244** at the beginning and work through until instructed to install Pitman and Idler Arm Support Kit.
3. Use instruction set **7271** to install the Pitman and Idler Arm Support Kit and work from start to finish but at the end, do not reinstall the metal OEM skid plate.
4. Go back to instruction set **7244** and continue where left off from and continue until instructed to install aftermarket upper control arms.
5. Use instruction set **110-90910** to install the Cognito upper control arms. Ball Joints taper to the spindle [Torque the nut to **50 ft-lbs**].
6. Reference back to instruction set **7244** and continue where you left off until instructed to install front shocks.
7. Install the front shocks. Installing the lower shock mount using the OEM hardware. Install the upper shock mounts using the provided hardware. Torque the upper shock mount hardware to **50ft-lb**. Torque the lower shock mount hardware to **89 ft-lb**.
8. Reference back to instruction set **7244** and continue where you left off until instructed to install rear lift components.
9. Use instruction set **7024** to install the Cognito rear lift components.
10. Locate the rear shocks. Install them using the factory hardware and [Torque the hardware to **85 ft-lbs**]
    - **NOTE:**

      It is easiest to install the upper mount first and pull the shock together slightly compressing it until the lower mount can be installed.
11. Pick up where you left off from instruction set **7244** and continue to completion.

This completes the installation steps, enjoy your new COGNITO 4" Elite Lift 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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