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Cognito 2.5-Inch Elite Leveling Kit with Elka 2.5 remote reservoir shocks for 2021+ Ford F-150 2WD/4WD

INSTALL SUMMARY SHEET:

Cognito 2.5-inch Elite Leveling Kit with Elka 2.5 remote reservoir shocks for 2021+ Ford F-150 2WD /4WD
SKU: 220-P1141

PARTS LIST FOR SKU: 220-P1141

QTY.	PART #	DESCRIPTION
1	120-91057	Cognito SM Series Uniball Upper Control Arm
1	520-91076	Front Left Elka 2.5" Coilover Remote Reservoir Shock
1	520-91080	Front Right Elka 2.5" Coilover Remote Reservoir Shock
1	520-91121	Rear Left Elka 2.5" Piggyback Reservoir Shock
1	520-91122	Rear Right Elka 2.5" Piggyback Reservoir Shock



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

Thank you for purchasing the Cognito 2.5-inch Performance Leveling Kit. We have bundled everything you need in a leveling kit for your F-150 2WD/4WD with high quality Cognito components. Cognito components are engineered, manufactured, and assembled in the USA. The Cognito 2.5 Inch Performance Uniball Leveling Kit includes the Cognito Uniball SM Series Upper Control Arm Kit, Elka 2.5 Coilovers with remote reservoir and rear shocks with piggyback reservoirs. The Cognito Uniball SM Series Upper Control Arms add style, function and performance to your vehicle by correcting the uniball angle for lifted and leveled applications and improving the allowable droop travel for a better ride quality. The Elka shocks provide better attenuation of vibration, leading to major noise reduction in the cabin (much less squeak and rattle), damping characteristics optimized for each truck and setup, providing a smoother ride.

TECHNICAL INFORMATION

- Include provisions for the Platinum model headlight sensor.
- Trucks with the Continuously Controlled Damping (CCD) option will have reduced drive mode function after replacing the OEM shocks.
- Allows up to 35" x 12-inch tire on a 9-inch-Wide wheel with a 5.75-inch Backspacing
- 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.
- Be sure to read though all install instructs include with this kit prior to attempting installation and heed all warnings, failure to comply with all warnings and requirements can lead to an accident and serious injury.
- This kit is equipped with ride-height adjustable coilover front shocks. If after the installation a ride height adjustment is required, to either raise/level the vehicle to the proper front lift height or to lower the vehicle to achieve the minimum 3" of droop travel, then refer to the included shock instructions to safely adjust pre-load.
 - To reach the recommended lift height of 2.5" the droop travel should be set to 3"
 - Each 1/8" of spring preload is approximately equal to 1/4" of ride-height adjustment.



ON-BOARD SCALES AND SMART HITCH NOTICE

The On-Board Scales and Smart Hitch option available on certain trucks is not compatible with any kits which raise the vehicle or change the spring rates of the suspension. On-Board Scales and Smart Hitch uses suspension mounted sensors to read the ride height and estimate the load carried by the vehicle. Never use the On-Board Scales and Smart Hitch feature to estimate the load of a modified vehicle.

This Kit Install Summary will guide you through the **necessary order of steps** to install each of the individual components that comprise this kit in the required sequence to safely complete full and proper installation.

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 INDIVIDUAL INSTALLATION INSTRUCTION SHEETS INCLUDED WITH THIS KIT BEFORE BEGINNING.

INSTALLATION

1. Begin by locating the instruction sheet **7353**, included with this kit. You will need it to do this install. If instructions are missing or damaged, contact Cognito Motorsports for where to find replacements.
2. Rack the vehicle and lift it off the ground, or if no hoist is available then jack rear of truck off the ground and support properly with jack stands.
 - **NEVER WORK ON AN UNSUPPORTED VEHICLE.**
3. Next support the rear axle and remove the OEM shocks, retain the hardware.
4. Now locate the provided rear shocks **520-91121 & 520-91122**. Note, the shocks are side dependent reference the parts list for the side they should be installed on. Install them using OEM hardware and torque to **90 ft-lb**. It is easiest to first install the upper mount and push the shock together slightly compressing it to install the lower mount.
5. Start working in the front by using instruction sheet **7353**. Start at the beginning and work through until the upper control arm is installed and the shocks are to be reinstalled.
6. Now locate the provided front shocks in this kit, **520-91076 & 520-91080**, and install them. Note, the shocks are side dependent reference the parts list for the side they should be installed on. For the upper strut mount use the new hardware, torque to **70 ft-lb**. Use the new lower hardware and torque to **90 ft-lb**.
7. Once the coilover shocks are fully installed, reference instructions **7353** and pick up where it left off and follow to completion.

This completes the installation steps, enjoy your new Cognito 2.5-inch 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.