

## 2022+ Toyota Tundra Front Differential Drop Kit

**INSTALL INSTRUCTIONS:**

2022+ Toyota Tundra Front Differential Drop Kit  
SKU: 135-91300

**PARTS LIST FOR SKU: 135-91300**

QUANTITY	PART #	DESCRIPTION
1	8860	Differential Bracket, Passenger
1	8861	Differential Bracket, Driver
1	3139	Differential Bracket Shim
1	HP9349	Spindle Pin Hardware Pack


**PARTS LIST FOR SKU: HP9349**

QUANTITY	PART #	DESCRIPTION
2	7019	Crush Sleeve
4	7020	Hat Bushing
2	HARDWARE-M14-1.5X60-SHCS	M14-1.5 X 60 SHCS Clear Zinc
2	HARDWARE-M14-F/W/YZ	M14 Flat Washer Class 10.9 Yellow Zinc
3	HARDWARE-M16-LN	M16-1.5 Lock Nut Class 8.8

**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.



## INTRODUCTION

The Cognito Front Differential Drop Kit for the 2022+ Toyota Tundra replaces the weak OEM bushing with stronger polyurethane bushings to prevent unwanted movement of the front differential, as well as correcting CV joint angles for lifted applications.

## TECH NOTES

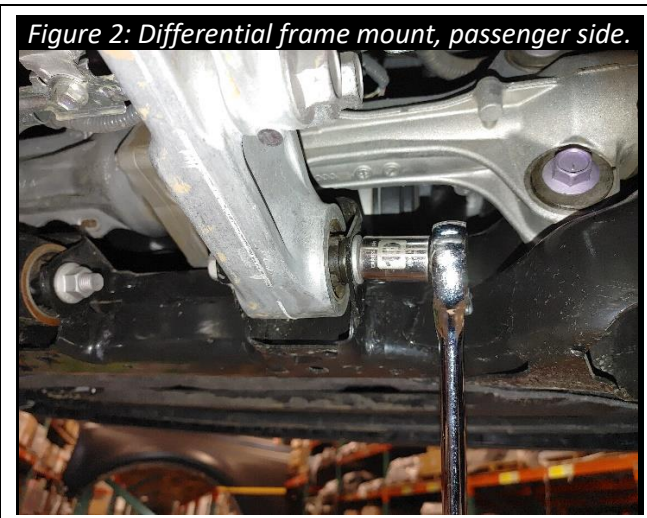
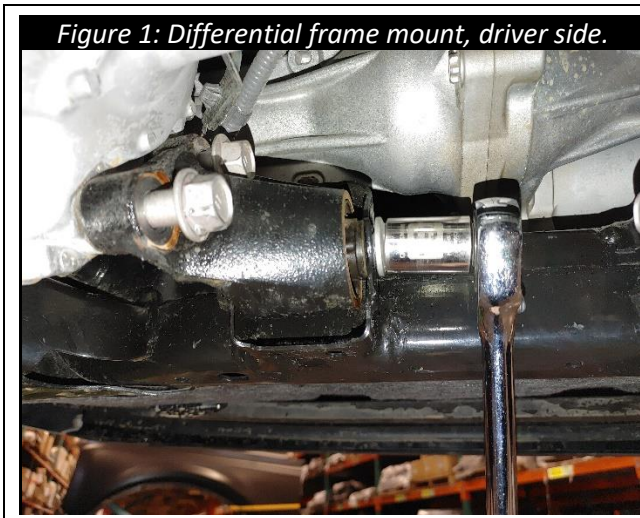
- Read instructions carefully and study the pictures (if included) before attempting installation.
- If this product was purchased as part of a bundle/package, familiarize yourself with each set of instructions included with the bundle/package before beginning.
- Check the parts and hardware packages against the parts list to assure that your kit is complete before starting.

## REQUIREMENTS

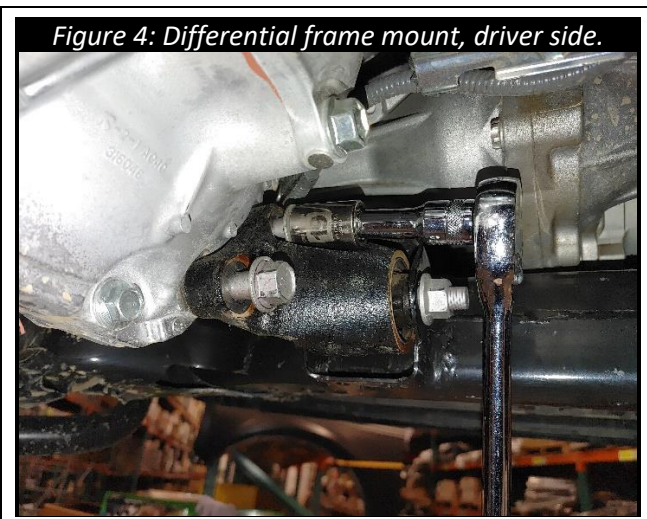
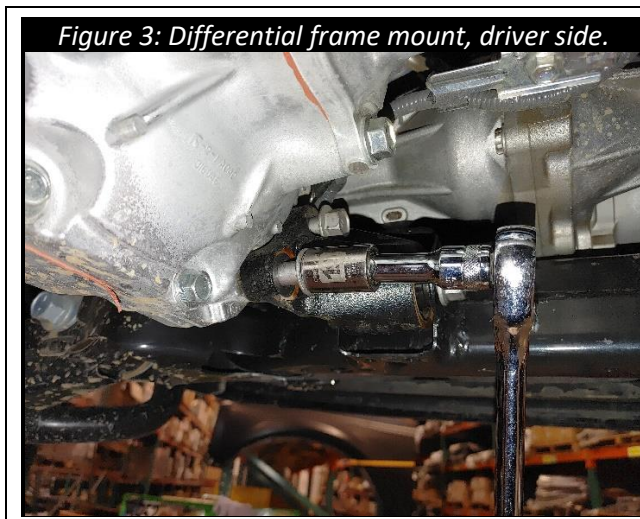
- Installation requires a qualified mechanic.
- Follow the OE specifications when replacing or re-installing OE fasteners, retainers, and hardware specified in the OEM service manual.
- Always wear safety glasses when using power tools.
- When a lift is required to perform the installation of these products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

## INSTALLATION

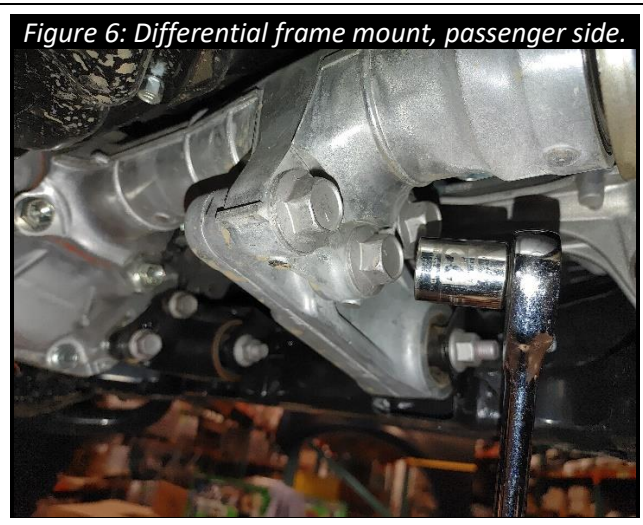
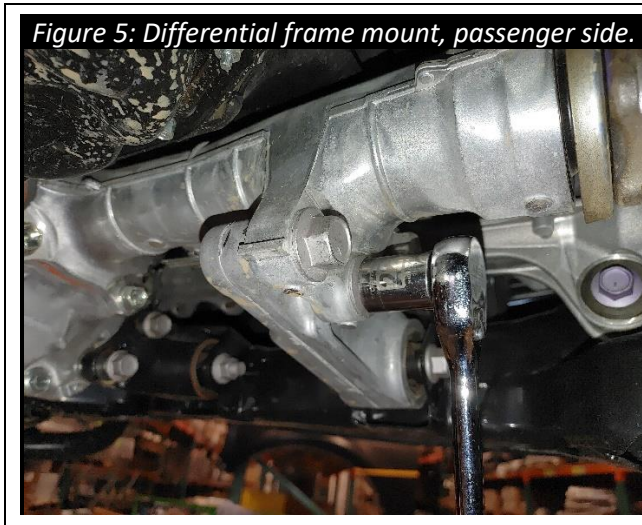
1. Lift the front of the vehicle using a suitable hoist. **Never work under an unsupported vehicle!**
2. Support the front differential with a jack, applying only a small amount of upward pressure to lift the differential.
3. Loosen the two bolts at the frame mounts using a 19mm socket.



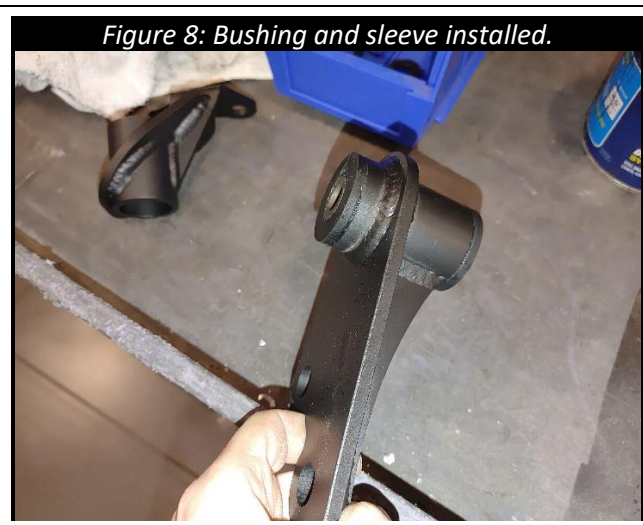
4. Loosen and remove the 2 bolts from the driver side differential mount using a 19m socket.



5. Loosen and remove 3 bolts from the passenger side differential mount using a 22mm socket.



6. With the factory mounts removed, move onto the new Cognito differential mounts. You will need to grease the bushing and install them into the mounts. Apply a high quality moly grease onto the inner and outer diameter and faces as shown, Then, install the bushing and sleeve into each differential mount.



7. Install both Cognito differential mounts as shown using the factory hardware. Leave the bolts and nuts loose for now.

**Note:** Depending on the truck, the rear differential mount may need to be loosened using a 12mm hex key. The purple nut is located inside of the engine cross member.

*Figure 9: Driver side differential mount.*



*Figure 10: Passenger side differential mount.*



8. With the mounts roughly in the right spot, slowly lower the differential until the bolt holes line up correctly.
9. Starting with the driver side use the supplied M14-1.5 X 60mm SHCS, washers, and shim. Apply blue thread locker onto the bolts. The shim will go between the differential and mount.

*Figure 11: Installing shim.*



*Figure 12: M14 bolts. Use washers here.*

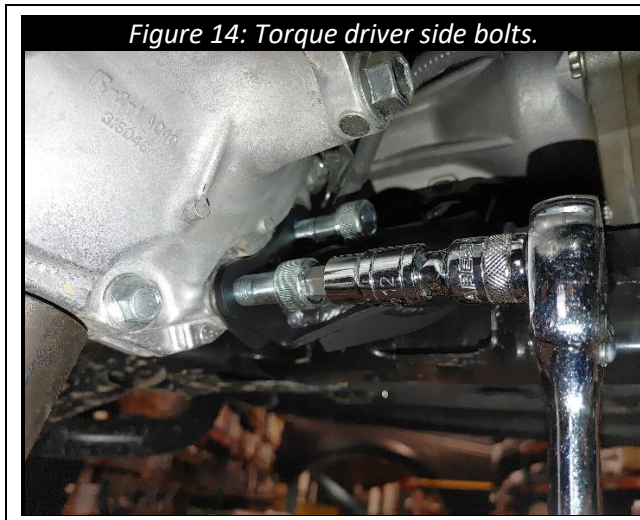


10. Move on to the passenger side and install the factory bolts with the supplied M16 lock nuts as shown.



11. With all bolts and nuts now installed, begin to tighten all bolts.

- Driver side hex key bolts (2): **65 ft-lbs** using a 12mm hex key.
- Passenger side bolts and nuts (3): **105 ft-lbs.** using a 22mm and 24mm socket and wrench.
- Frame mount bolts and nuts: (2): **65 ft-lbs.** using a 19mm socket and wrench.



12. Verify all fasteners are properly torqued before driving vehicle. Retorque all fasteners after 100 miles and periodically thereafter.



## 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.