

CV Front Driveline Kit for 2024+ GM 2500/3500HD Trucks

INSTALL INSTRUCTIONS:

CV Front Driveline Kit for 2024+ GM 2500/3500HD Trucks
SKU: 210-91301

PARTS LIST FOR SKU: 210-91301

QUANTITY	PART #	DESCRIPTION
1	210-90983	CV Front Driveline
1	7021	Pinion Yoke
2	7022	Retainer



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

In 2019 GM upsized the front driveline front u-joint to 1330 series in the 2500HD/3500HD trucks. This size carried on through 2023. In 2024 GM has upsized the joint again to what seems to be an industrial sized u-joint which is not typically used in automotive applications. Currently there is no weld yolk available for the proper size driveline tubing in order to build a custom driveline to be a direct fit, therefore the current solution is to change the yolk on the front differential to the 1330 series (that came OEM on the 2019-2023) so an available CV driveline can be installed. This driveline kit comes with the driveline and the 1330 series front differential yolk with 2 retaining clamps.

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 lift or jack stands. If using jack stands, be sure to engage the emergency brake and chock the rear wheels. ***Never work under an unsupported vehicle!***
2. Remove the front wheels.
3. Remove the bolts securing the U-bolt retainers to the front differential yoke. Save the hardware for reuse.
4. Slide the driveshaft reward in the transfer case to remove it from the yoke. Then remove the driveshaft from the transfer case.
5. Use an inch-pound torque wrench to measure the torque required to rotate the pinion. This is most easily done with a dial-type torque wrench. Record this value.

Torque required to rotate pinion (in-lbs): _____

6. Use a marker or paint pen to mark the alignment of the pinion nut, pinion shaft, and yoke.
7. Count the number of threads exposed on the pinion shaft above the pinion nut. Record this value.

Number of exposed threads on pinion shaft: _____

8. Remove the pinion nut. This may require a specialized pinion yoke tool or a chain wrench.
9. Remove the pinion yoke. This may require a two-jaw puller. Do not pry or hammer on the yoke, this may cause damage to the pinion seal.
10. Mark the new pinion yoke **7021** in the same place as the old yoke, marked in Step 6.
11. Lightly grease the inside surface of the pinion seal to aide in installation of new yoke.
12. Install new pinion yoke **7021**, lining up marks with pinion shaft. The pinion nut can be used to pull the yoke onto the pinion shaft.
13. If pinion nut was used in Step 12, remove it now. Place a bead of RTV sealant onto the ends of the splines in the center of the yoke.
14. Install the pinion nut. Place a drop of red thread locker on the leading thread of the pinion nut. Slowly tighten the pinion nut in 1/8th turn increments until the number of exposed threads match the number recorded in Step 7 and the markings from Step 6 align. Check the torque required to rotate the pinion shaft as you tighten the pinion nut. The torque required to rotate the pinion shaft should match the value recorded in Step 5. ***Do not over-tighten the pinion nut! The torque required to rotate the pinion shaft must not exceed the value recorded in Step 5 by more than 3 inch-pounds. Over-tightening of the pinion nut will require replacement of the pinion crush sleeve.***
15. Slide the splined end of the **210-90983** CV Front Driveline into the transfer case.



16. Fasten the U-joint to the yoke using the **7022** retainers and the factory hardware removed in Step 3. Torque bolts to 18 ft-lbs.
17. Oil may need to be added to the front differential to account for oil lost when changing yoke. Consult manufacturer specifications.



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.



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