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INSTALL INSTRUCTIONS:

**2017-2020 Ford F250/350 Super
Duty Radius Arm Drop Brackets
SKU: 120-70088**

PARTS LIST FOR SKU: 120-70088

| QTY. | PART # | DESCRIPTION |
|------|--------|--|
| 1 | 8553 | Ford F250 F350 Driver Radius Arm Drop Bracket |
| 1 | 8554 | Ford F250 F350 Passenger Radius Arm Drop Bracket |
| 4 | 8555 | FSD Nut Plate Radius Arm Drop |



HP9213 - 2017 Ford Radius Arm Drop Hardware

| QTY. | PART # | DESCRIPTION |
|------|--------------------------|---|
| 4 | HARDWARE-M18X2.5X120 | M18-2.5 X 120mm Yellow Zinc Plated Cap Screw DIN 931 Class 10.9 |
| 8 | HARDWARE-M18-FLATWASHER | M18 Zinc Plated Steel Flat Washer DIN 125 |
| 4 | HARDWARE-M18X2.5-LOCKNUT | M18-2.5 Class 10.9 Zinc Plated Steel Locking Nut |
| 4 | HARDWARE-M12X1.75X30 | M12-1.75 X 30mm Yellow Zinc Plated Cap Screw DIN 933 Class 10.9 |
| 4 | HARDWARE-M12-FLATWASHER | M12 Metric High-Strength Steel Flat Washer |
| 4 | HARDWARE-M12-LOCKWASHER | M12 Zinc Plated Split Lock Washer |

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

The Cognito 2017-2020 Ford F250/350 Super Duty Radius Arm Drop Brackets provide a heavy-duty replacement for the OE bracket. When installing a vehicle lift it is important to correct the radius arm pivot points to maintain safe, well performing suspension. The powder coated steel bracket is a direct fit with either OE radius arms or Cognito Caster Adjustable Radius Arms (SKU: 120-90408)

REQUIREMENTS

- This installation requires a qualified mechanic
- This installation is strongly recommended to be completed using a vehicle lift.
- Read instructions carefully and study the pictures before attempting installation.
- Check the parts and any hardware packages against the parts list to assure that your kit is complete.

TECHNICAL INFORMATION

- It is necessary to raise the vehicle to perform installation of these products. A vehicle lift or installation bay is recommended. Always ensure the truck is properly supported before attempting installation as serious injury could occur.
- This installation is for stock and lifted applications.
- Follow the OEM recommendations when replacing OE fasteners, retainers, and keepers specified in the OEM manual.

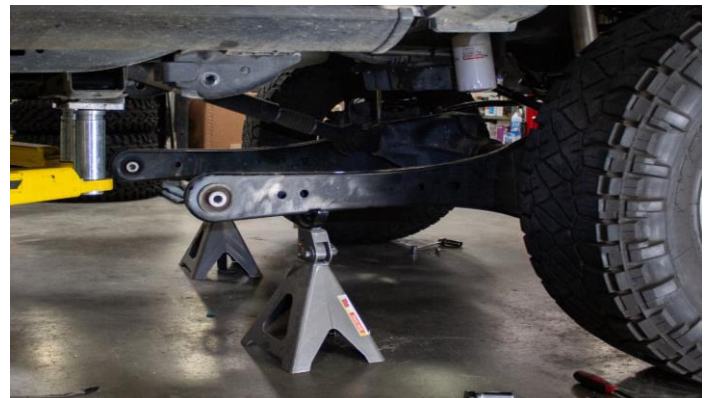
INSTALLATION

1. Remove the rear pivot bolt from driver and passenger side radius arms (Figure 1A). Rotate front axle assembly down slowly, checking to ensure all brake lines, vacuum lines, hoses, wiring, and driveline are free to rotate and properly supported as shown (Figure 1B).

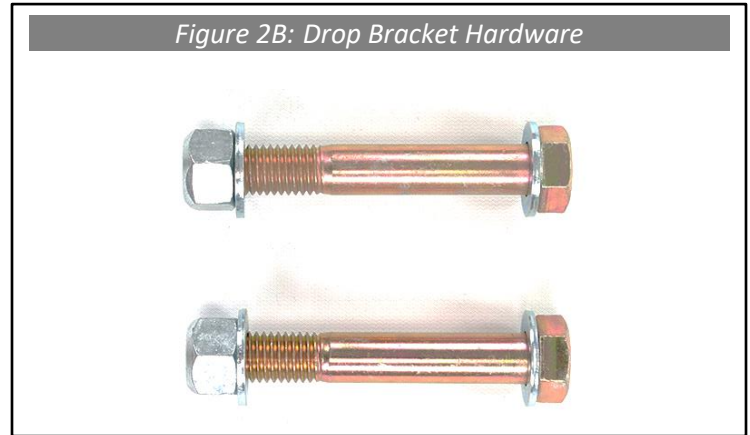
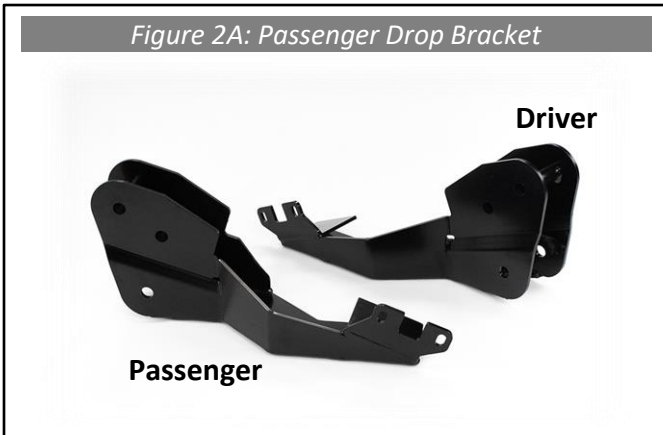
Figure 1A: Radius Arm Rear Pivot



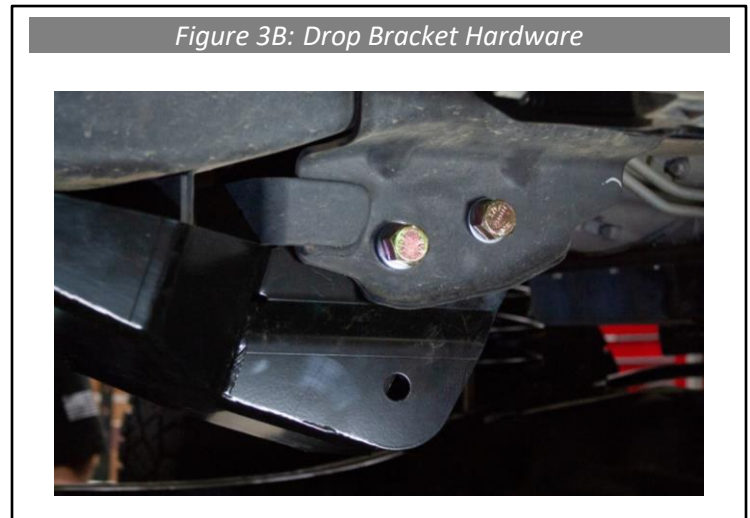
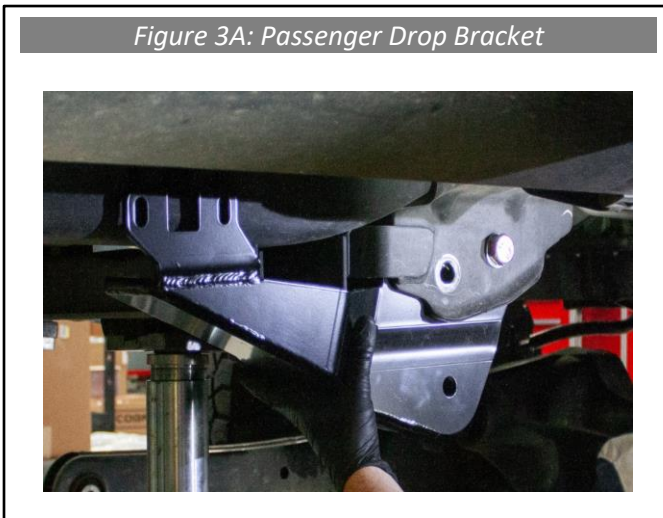
Figure 1B: Front Axle Assembly Supported



2. Locate the components and hardware listed below (Figure 2 A/B)
 - a. (1) – 4" Drop Bracket Passenger (Part # 8554)
 - b. (2) – 18mm-2.5 x 120mm Lg. Cap Screw
 - c. (4) – 18mm Washer
 - d. (2) – 18mm-2.5 Locknut



3. Install the passenger drop bracket by inserting the front of bracket into OE pivot pocket. Insert (1) 18mm cap screw into front hole location with (1) 18mm washer between bolt head and pivot pocket (Figure 3A). Rotate into position to align the rear hole and insert remaining 18mm cap screw with washer (Figure 3B).



4. Locate the hardware listed below (Figure 4) :
 - a. (2) – Nut Tabs (Part #8555)
 - b. (2) – M12-1.75 x 30mm Cap Screw
 - c. (2) – M12 SAE Flat Washers
 - d. (2) – M12 Split-lock Washers

Figure 4: Drop Bracket Rear Hardware



Figure 5: Insert Nut Tab



5. Insert (1) Nut Tab into the access slot with the locking tab orientated as shown (Figure 5). Align the nut with the front hole and install (1) Cap Screw with (1) Split-lock washer between bolt head and (1) SAE flat washer (Figure 6A). Do not fully tighten at this time, then repeat for the rear hole location, making sure the locking tab is orientated in the access window when installed (Figure 6B).

Figure 6A: Rear Mount Front Bolt Installed



Figure 6B: Rear Mount Installed



6. Repeat steps 2 - 5 for the 4 in. Drop Bracket Driver (Part # 8553)
7. Before starting this step, it is recommended to get another person to assist during this step. Rotate the front axle assembly up and insert the driver and passenger side radius arms into the drop bracket pivot pockets. Assemble using the OE radius arm bolt and nut, removed in step 1, (Figure 7A). Install the remaining nuts and washers as shown (Figure 7B).

Figure 7A: Radius Arm Pivot Installed



Figure 7B: Radius Arm and Drop Bracket Installed



8. Torque the (2) OE radius pivot bolts to 222 ft.-lbs. Torque the (4) 18mm-2.5 drop bracket front mount bolts to 270 ft.-lbs. Then torque the (4) drop bracket rear mounting bolts to 75 ft.-lbs. Always apply the torque wrench to nut, not the bolt head.

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.