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INSTALL INSTRUCTIONS:
 Can Am X3 Radius Rod Inner
 Mount Conversion Kit

SKU: 370-91041



PARTS LIST FOR SKU: 370-91041

QUANTITY	PART #	DESCRIPTION
1	6707	Brace Plate, Top, Mount, Control Link, Can Am X3
1	6708	Brace Plate, Middle, Mount, Control Link, Can Am X3
1	6709	Brace Plate, Bottom, Mount, Control Link, Can Am X3
1	6710	Nut Plate, Top, Mount, Control Link, Can Am X3
1	6711	Nut Plate, Middle, Mount, Control Link, Can Am X3
1	6712	Nut Plate, Bottom, Mount, Control Link, Can Am X3
1	HP9306	Can Am X3 RR Plate Mounting Hardware

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 safety and the safety of your passengers; severe frame, suspension or tire damage may also result from improper installation.

HP9306 - PLATE MOUNTING HARDWARE

QUANTITY	PART #	DESCRIPTION
6	HARDWARE-M6-1.0X25-FB	Class 10.9 Flange Head Cap Screw M6x1.0 - 25mm long
6	HARDWARE-M12X1.25X70-FB	Class 10.9 Flange Head Cap Screw M12x1.25 - 70mm long
2	HARDWARE-M12X1.75-JN	Class 4 Hex Jam Nut M12x1.75
1	THREADLOCK-BLUE	2ml Blue Medium Strength Tread-lock

INTRODUCTION

- The Can-Am X3 radius rods are fastened to the rear of the chassis with 12mm studs protruding from the transmission side of the frame to the rear. This makes it difficult to change or work on one radius rod, because all 6 nuts and the radius rod plate must be removed. If there were bolts fastening the radius rods from rear toward the front, you could remove one radius rod without disturbing the others. Also, the mounting holes in the frame are oversized for the 12mm fastener size, and therefore mounting the inner end of the radius rods to the frame consistently in the center of the mounting holes is nearly impossible, which makes the camber impossible to keep consistent.

- This Cognito mounting conversion kit will convert from studs to bolts but will also allow the bolts to be easily centered in the mounting holes to keep rear tire alignment consistent.

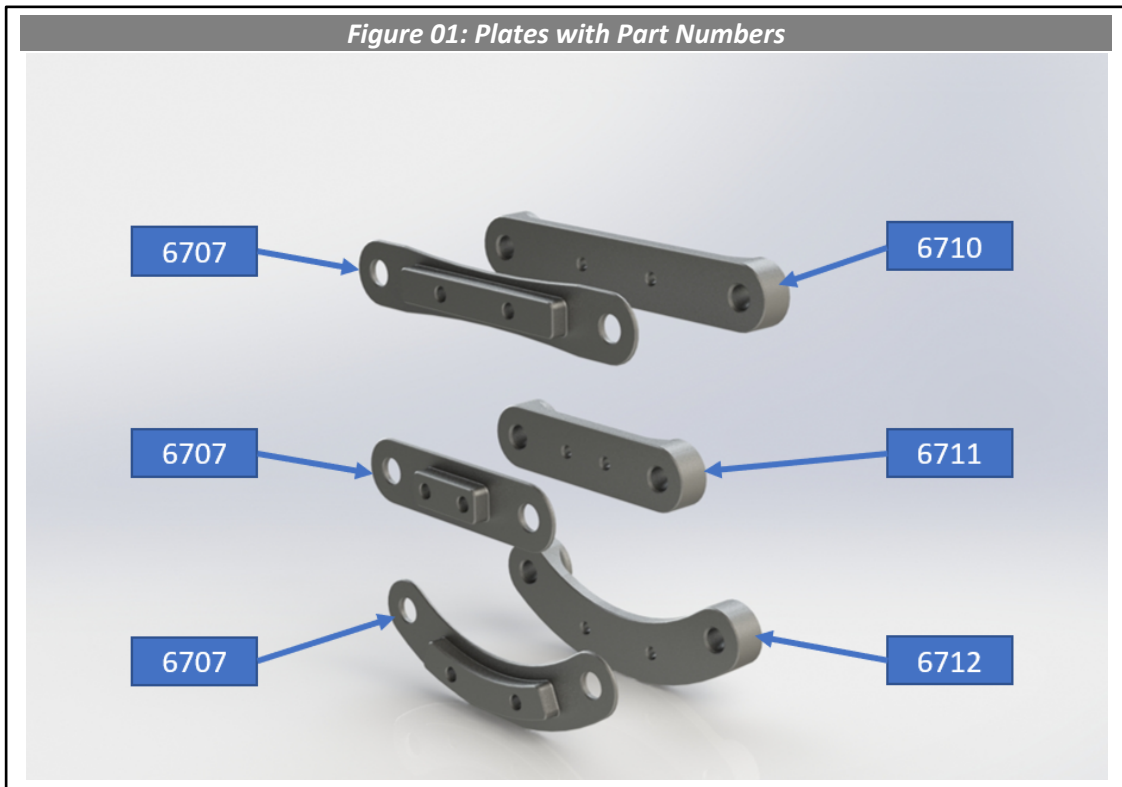
REQUIREMENTS

- Installation requires a qualified mechanic.
- Read instructions carefully and study the pictures (if included) before attempting installation.
- Check the parts and hardware packages against the parts list to assure that your kit is complete.
- Always wear safety glasses when using power tools.
- It is necessary to raise the vehicle to perform installation of these products. A hoist or installation bay is recommended. Always ensure that the vehicle is properly supported before attempting installation, as serious injury could occur.

TECH NOTES

- Drilling though the frame is required.
- Cutting of stock radius rods studs is optional.
 - It is possible to install this kit without cutting the stock studs but the process for removing the studs without cutting will not be covered in this install document. If you wish not to cut your studs refer to a service manual for how to remove and replace the stock studs.
 - If you decide not to cut your studs you will still need to complete steps 2d-2f, 3 & 4 (minus the cutting in steps 3 & 4) prior to removing the studs.
- A second set of hands will aid installation.

Figure 01: Plates with Part Numbers



INSTALLATION

1. Vehicle Preparation:

- a. Raise the back of your vehicle up and support by the frame so that the suspension droops out and tires are just off the ground.
- b. Remove the OEM radius rod plate by removing the nuts fastening it to the studs.
- c. Remove the inner ends of the radius rods from the studs.

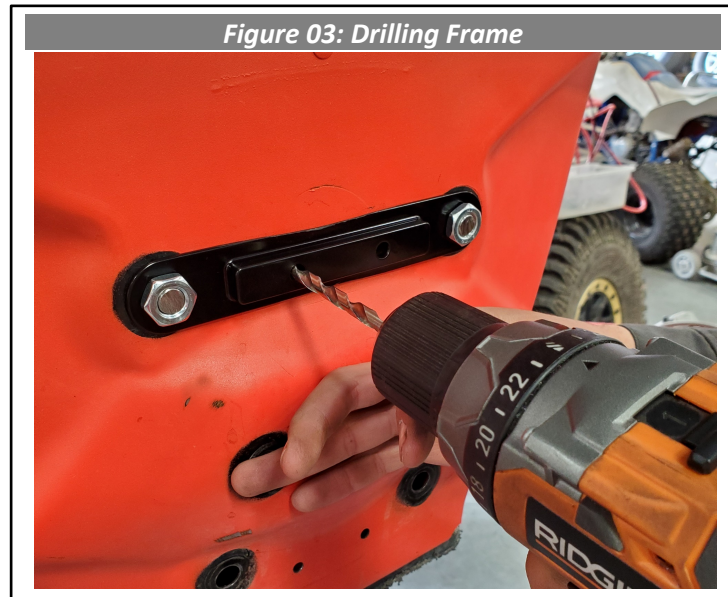
2. Upper Plate Frame Preparation:

- a. Starting with the upper position, install the Cognito upper brace plate, part number 6707 onto the stock studs.
Note: The back side of this plate has a small male chamfer around each hole to self-center in the oversized OEM hole.
- b. Firmly fasten the Cognito brace plate with the 2x M12 included jam nuts.
- c. Using a cutoff wheel, cut the studs flush with the jam nuts.
Note: This is done to help remove the OEM stud plate from the frame since the transmission is in the way to remove the full-length studs. This process can be done without cutting the studs see tech notes.



- d. Next using a 1/4" (.250") drill bit, drill 2 holes in the frame. Use the 2x center holes of the Cognito brace plate as a guide to drill through the frame.

Note: If doing this process via cutting the studs be very careful when drilling through the chassis. The transmission is located behind the sheet metal of the chassis in this location. Once you feel the drill bit break through the chassis/frame or suddenly move inward more than an 1/8" immediately stop drilling to prevent damaging the transmission.



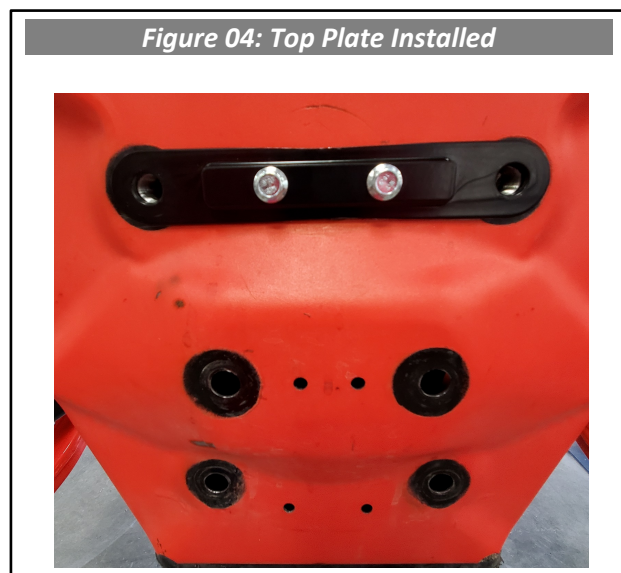
- e. Now remove the jam nuts and the Cognito upper brace plate.
 - f. Remove stock studs. Using a hammer hit the stud inwards to knock it loose, tap both studs until they break free and can be removed by hand from the transmission side.
3. Mid Plate Frame Preparation:
 - a. Install the Cognito middle brace plate, part number 6708, onto the stock studs in the middle.
 - b. Repeat Steps 2b - 2f for the middle studs.
 4. Lower Plate Frame Preparation:
 - a. Install the Cognito lower brace plate, part number 6709, onto the stock studs on the bottom.
 - b. Repeat Steps 2b – 2f for the bottom studs.

5. Top Plate Install:

Note 1: The area between the frame and transmission is tight making this installation difficult with the transmission in place but is doable with some patience.

Note 2: The smaller bolts (M6) are used to permanently fasten the brace plate to the nut plate with the frame sandwiched in between. Once they are installed, there is no reason to remove them unless you have damaged the threads.

- a. Locate the Cognito upper nut plate, part number 6710, and its matching brace plate, part number 6707.
- b. With the nut plate, reach back around between the back of the frame and transmission. To hold the nut plate in place and to prepare to fasten both plates to the frame, locate 2x M12 bolts included with the kit. Line up the M12 threaded holes in the nut block with their corresponding holes in the frame. Using the 2x M12 bolts, pass them through the appropriate holes in the brace plate. Then insert them into the appropriate holes in the frame and temporarily thread them into the nut plate, holding both plates in place. Correct installation will have the frame sandwiched between the brace plate and nut plate, be sure that the flat side of all Cognito plates install against the frame. The plates should never be installed with the flat side away from the frame.
- c. Fasten the nut plate and brace plate to the frame by applying a dab of thread locker to 2x M6 bolts included in the kit. Pass them through the 2x small holes in the brace plate and thread them into the nut plate.
- d. Torque the 2x M6 bolts to 12 ft-lbs to fasten the assembly permanently to the frame.
- e. Remove the 12mm bolts that were in place temporarily.



6. Mid Plate Install:

- a. Locate the Cognito middle nut plate, part number, 6711 and it is matching brace plate, part number 6708.
- b. Repeat steps 5b – 5e to complete the middle plate install.

7. Bottom Plate Install:

- a. Locate the Cognito bottom nut plate, part number, 6712 and it is matching brace plate, part number 6709.
- b. Repeat steps 5b – 5d to complete the install.



8. Install Radius Rods:

- a. Using the included 6x M12 bolts, fasten your inner radius rod ends and radius rod plate to the chassis. Dab a bit of blue thread locker on the first 2 threads of each 12mm bolt. We recommend threading the bolts in by hand for the first few threads rather than starting with an air/cordless tool.
- b. Torque the M12 bolts to 83 ft-lbs.

9. Installation is complete, thank you for your purchase!

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.