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**INSTALL INSTRUCTIONS:**

**Cognito Trailing Arm Rock Guard Kit for 2017-2020 Can-Am Maverick X3 72" (stock trailing arms)**  
**SKU: 370-90903**



**PARTS LIST FOR SKU: 370-90903**

QUANTITY	PART #	DESCRIPTION
2	2830	Rock Guard Plastic CANAM X3 stock trailing arms
1	8732	OUTER MOUNT DRIVER STOCK TRAILING ARM ROCK GUARD CANAM X3
1	8733	OUTER MOUNT PASSENGER STOCK TRAILING ARM ROCK GUARD CANAM X3
1	8734	INNER MOUNT DRIVER STOCK TRAILING ARM ROCK GUARD CANAM X3
1	8735	INNER MOUNT PASSENGER STOCK TRAILING ARM ROCK GUARD CANAM X3
1	<b>HP9283</b>	X3 ROCK GUARD HARDWARE

**PARTS LIST FOR SKU: HP9283**

QUANTITY	PART #	DESCRIPTION
10	HARDWARE-15003	1/4"-20 X 3/4" Yellow Zinc Finish Sae J429 Grade 8 Hex Cap Screw
24	HARDWARE-33078	33078 1/4 Sae F/W Z
12	HARDWARE-37260	37260 1/4-20 Lock Nut Gr C
2	HARDWARE-15014	15014 1/4-20X2.750 HCS YZ8
2	HARDWARE-M12X1.25-FN	M12 - 1.25 Hexagon Flange Nut With Nylon Insert Steel Zinc. Din 6926 / Iso 7043
2	HARDWARE-M12X1.25X80-FB	M12-1.25 X 80 B1189-10.9 ZN FLANGE BOLTS JIS FT 17A/F

**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.

## REQUIREMENTS

- 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.
- **Only fits 72" models.**

## TECH NOTES

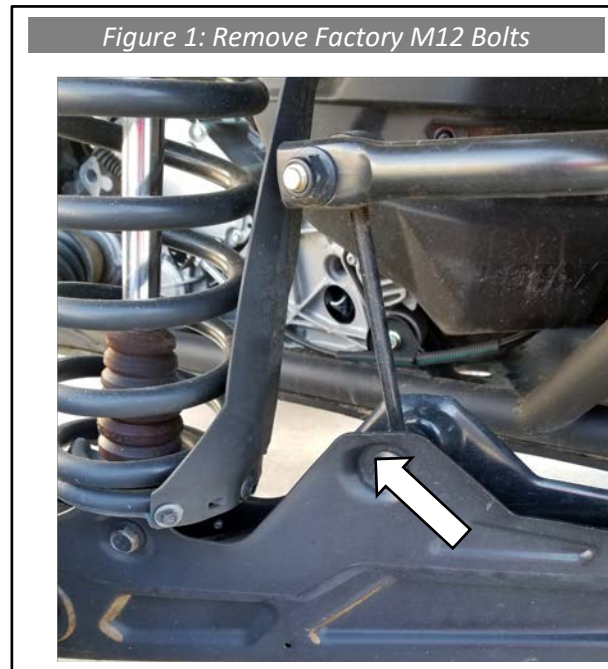
- Drilling on the stock trailing arm is required

## TOOLS YOU WILL NEED

- 18mm socket or wrench
- 17mm socket or wrench
- 1/4" drill bit
- Power drill
- 7/16" socket and wrench
- Torque wrench in-lb
- Flat head screwdriver (for RC model)

## INSTALLATION

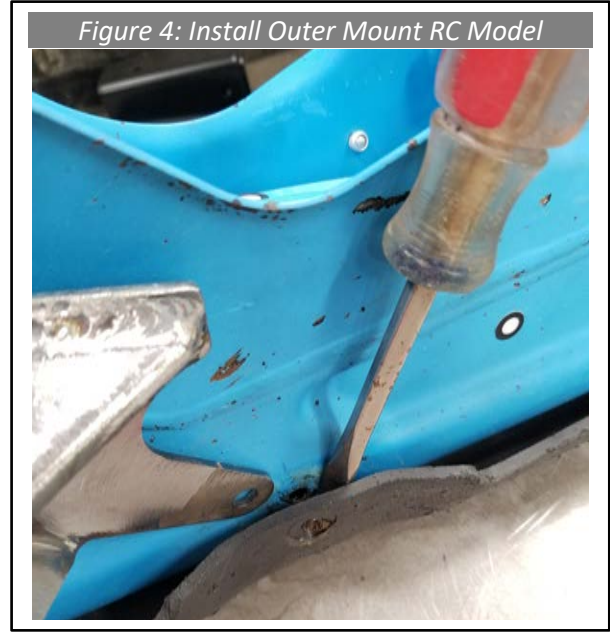
1. Begin by removing the lower sway bar tie rod bolt located on the trailing arm just forward of the shock with an 18mm wrench and socket (see figure 1). Discard the OEM bolt and nut because they will not work with the rock guard bracket.



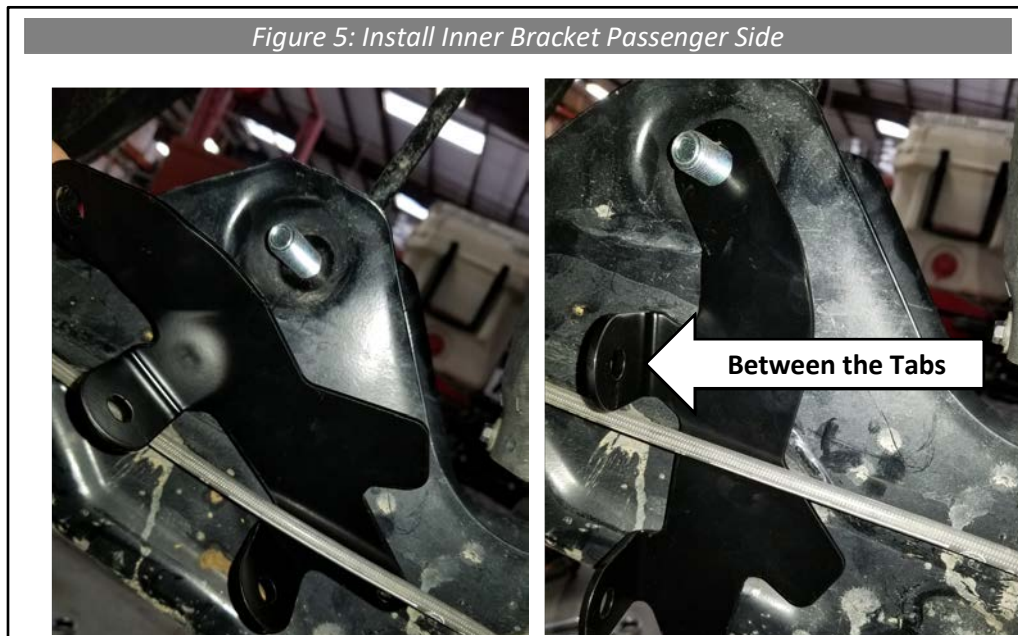
2. **This step for RC models only.** Locate the rivet below the sway bar end link that holds the OEM plastic trailing arm skid to the arm and drill it out using a 1/4" drill bit. While you are doing the drilling, it will help with installation to walk the drill bit around slightly oversizing the rivet hole in the plastic (See Figure 2).



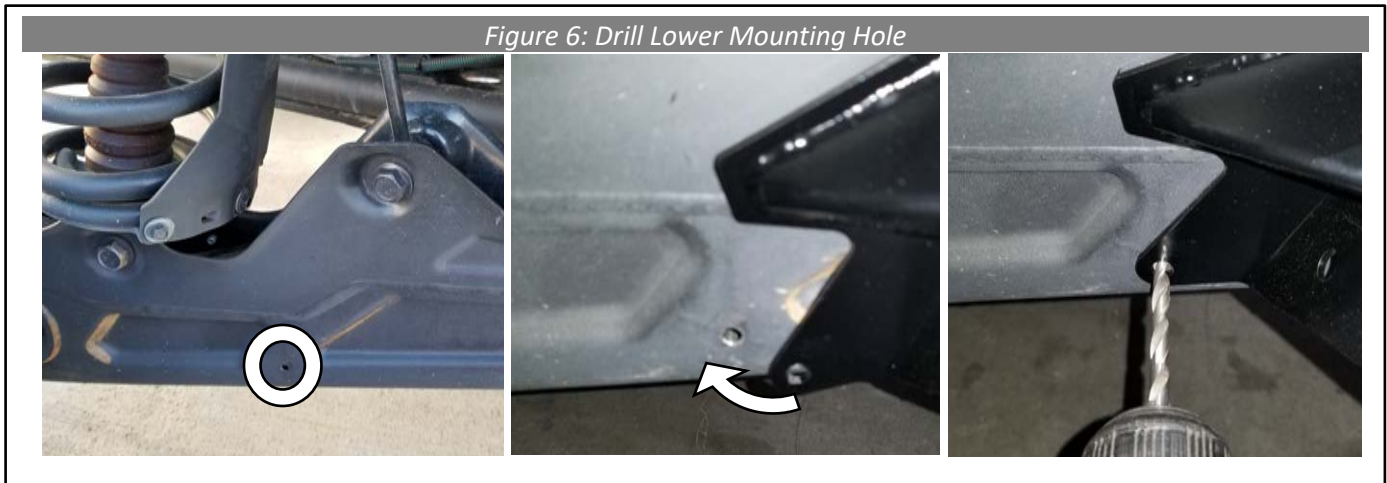
3. Take the provided M12 flange bolt and nut from **HP9283** and the outer bracket for the appropriate side of the vehicle. **8732** is the driver side and **8733** is the passenger side (See Figure 3). If installing on the RC models, use a flat head screwdriver to slide in between the arm and OEM plastic guard. Slightly twist it to allow space for easy installation of the outer mount (See Figure 4).



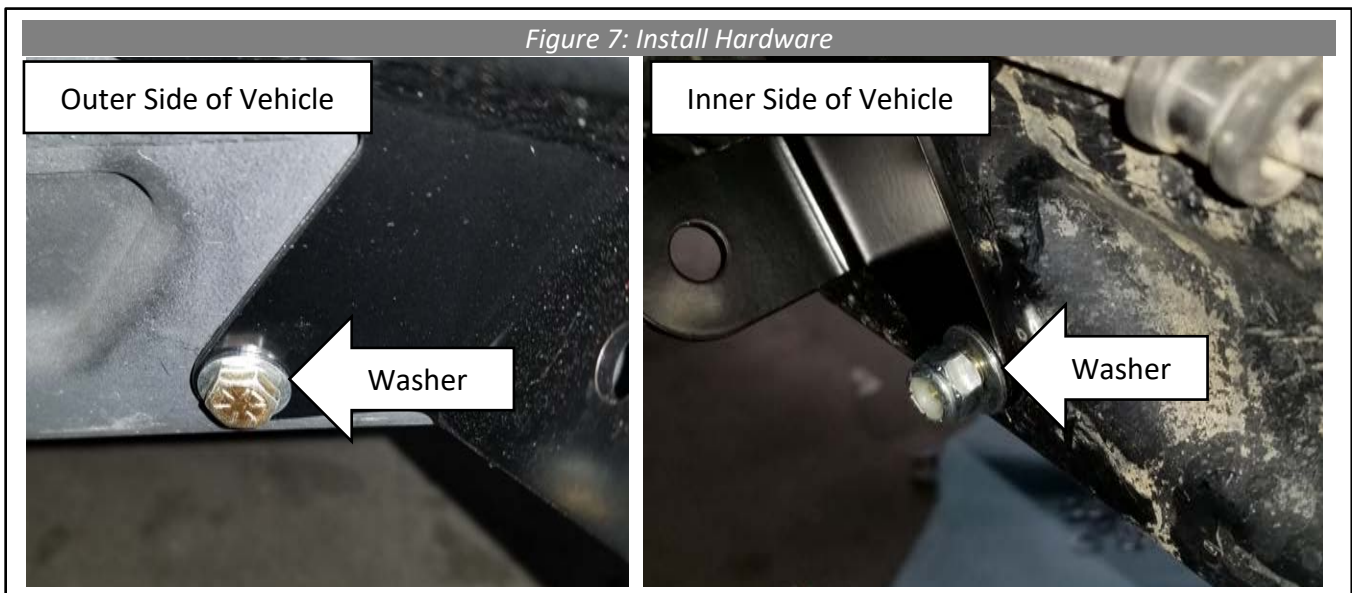
4. Install the inner brackets. **8734** is the driver side and **8735** is the passenger side. There are 2 tabs on the inner bracket, and they are designed to let the brake line pass between them without modification to the brake line mounting (See Figure 5). For the RC models, use the flat head screwdriver in the same way as the previous step to make installation easier.



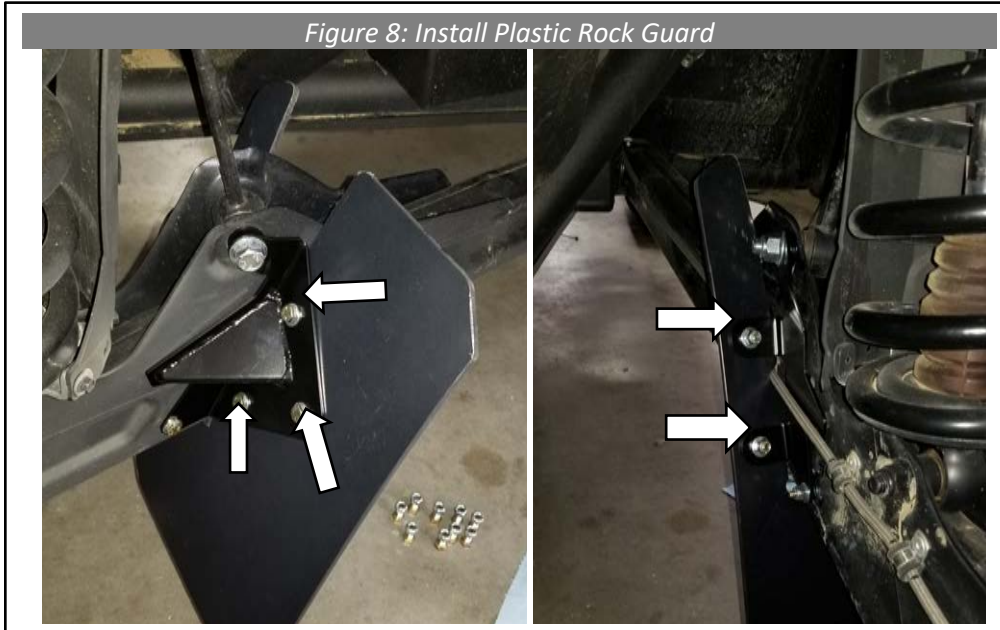
5. Install the M12 flange nut from **HP9272** but do not fully tighten yet.
6. **Skip this step if installing on the RC model.** Locate the existing hole near the bottom of the trailing arm and swing the outer bracket so that the lower mounting hole lines up with it. Use the bracket as a guide and drill the hole out using a  $\frac{1}{4}$ " drill bit (See Figure 6).



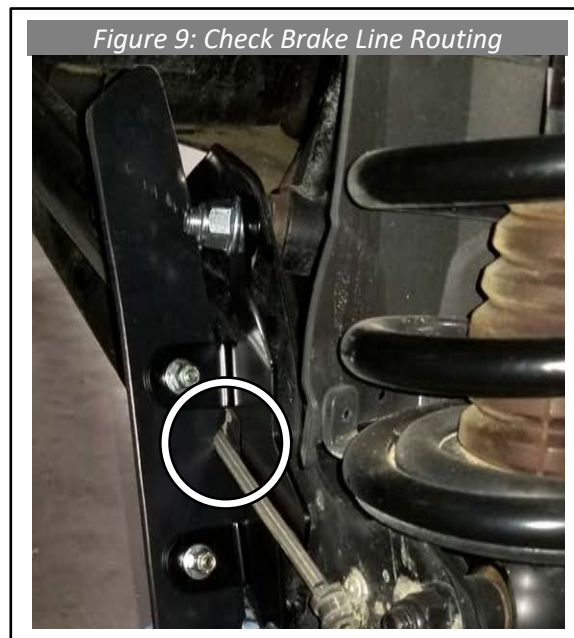
7. Repeat step 6 this time using the inner bracket.
8. Install the  $\frac{1}{4}$ "x 2.75" bolt, washers, and lock nut (See Figure 7). Tighten the bolt using a  $\frac{7}{16}$ " socket and torque wrench. Do not torque tighter than 110 in-lb. For the RC models, the bolt will go through OEM plastic guards.



- Now torque the M12 bolt and nut to 72 ft-lb using an 18mm and 17mm wrench or socket.
- Install the plastic rock guard **2830** from the bottom of the trailing arm and use the provided  $\frac{1}{4}$ " x .75" bolts, washers, and lock nuts. (See Figure 8). Make sure there is a washer on both the bracket side and the plastic side.



- On the inside of the arm there is a cutout in the plastic that allows for the brake line to pass through. Make sure the brake line is not pinched or being pulled on in any way (see Figure 9). Torque the  $\frac{1}{4}$ " x .75" bolts to 100 in-lb and no tighter.



- Repeat above steps for the other side of the vehicle.

## 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.