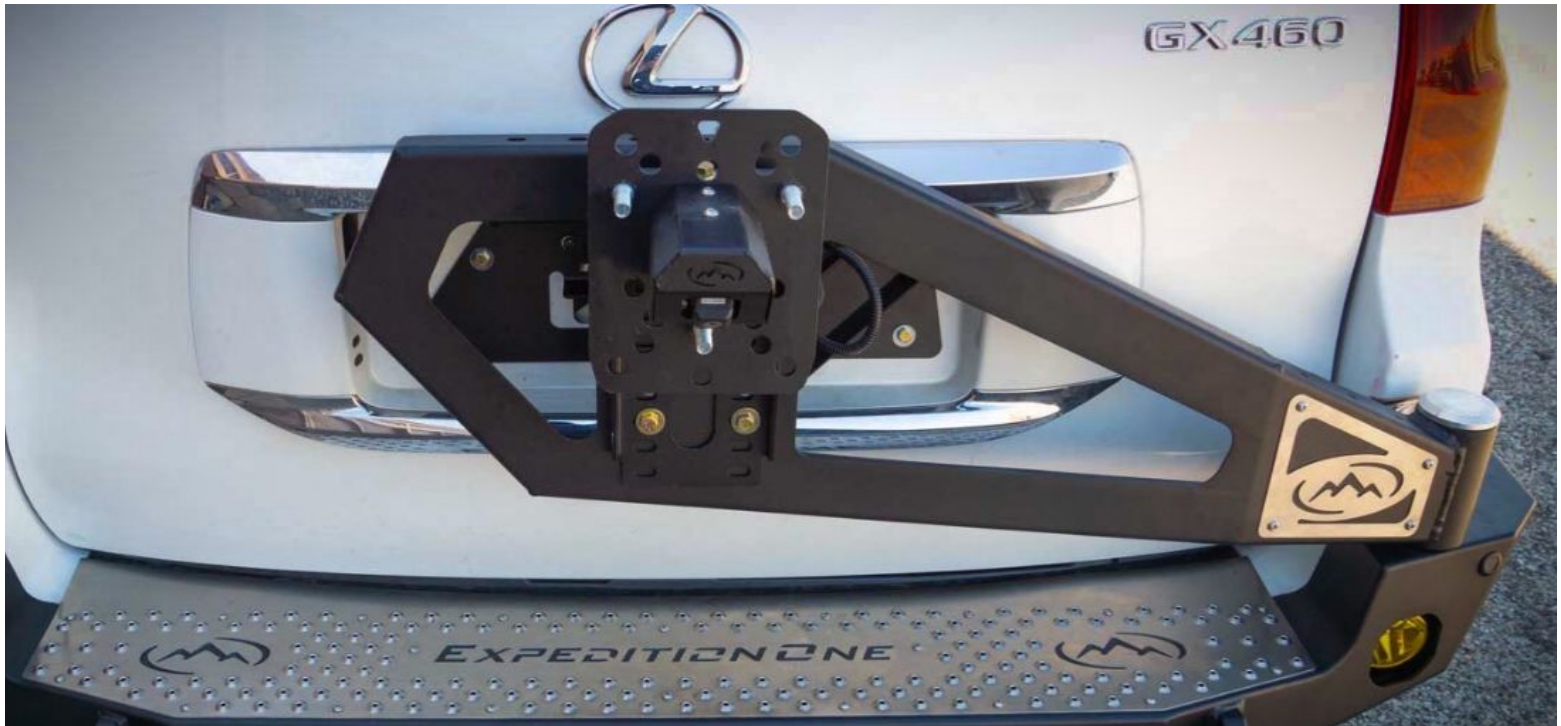




# 2010-2023 LEXUS GX460 SINGLE SWING STC SUPPLEMENTAL



## **PLEASE READ ENTIRE GUIDE BEFORE INSTALLATION**

Recommended that you read this entire install guide before installation. Check that all hardware is present before starting or scheduling an install. This guide is supplemental to mechanical knowledge and ability. Anyone not familiar with automotive installation should seek professional installation.

# IMPORTANT INFO/FAQ

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## INSTALLATION HELP

Please review terms and conditions for details

Recommended purchaser review Welcome Guide at time of purchase for details

Care & Maintenance and Install Guides available at [www.exp-one.com/resources](http://www.exp-one.com/resources)

We do our best to offer timely assistance with your installation questions however as most of our team members are primarily engaged in the manufacturing process and packaging processes, we do not currently offer a tech for on-demand calls and inquiries. For the more technical installs or installs that are time-sensitive in nature, we would recommend our customers seek out the services of professional shops with experience specific to aftermarket bumpers.. We are happy to make recommendations to you on shops familiar with our products in your area. We do our best to respond to installation questions within 24-48 hours of contact as much as possible. Long-distance problem assessment can be difficult, so photos and videos are often required for us to best assist you. We highly recommend your initial contact regarding installation questions include both close-up and full photos, detailed descriptions using our part descriptions as much as possible, and video. This enables us to better assist without having the ability to see the install difficulties directly and assist you as quickly as possible.

## NOTE

Expedition One does not guarantee fitment with other aftermarket products, or reinstallation of take off OEM parts.

Expedition One is NOT RESPONSIBLE for damage to paint or powder coating, items assembled in error during installation or costs associated with install, and injury.

OEM manufacture model refreshes/updates, factory build location and suppliers may cause variations in fitment or installation and can not be verified, vehicle to vehicle .

EXPEDITION ONE  
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801-627-2921 MON-FRI 0900-1700 MST

## INSTALL LEVEL



- |         |       |  |
|---------|-------|--|
| 1 STAR  | ★     | EASY - No tools required   |
| 2 STARS | ★★    | BASIC - Requires standard tools, basic mechanical knowledge and understanding  |
| 3 STARS | ★★★   | MODERATE - Requires standard tools. Some drilling and/or cutting.              |
| 4 STARS | ★★★★  | ADVANCED - Requires speciality tools. Drilling, cutting, and grinding required |
| 5 STARS | ★★★★★ | EXPERT - Professional installation recommended.                                |

We always recommend professional assistance when installing our vehicle products. Always follow safety precautions including the use of safety gear and devices.

# IMPORTANT INFO/FAQ

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## **AFTERMARKET or OEM PRODUCTS**

We DO NOT guarantee fitment or installation of any aftermarket, third party or OEM parts, accessories, or hardware. This includes items such as lighting, winches, skids, lifts, suspension, and accessory mounts. Access to all brands, manufactures and country of origin specific parts is limited or impossible during the product development stage and subsequent new or modified revisions of said products including OEM design changes or refreshes. It is recommended you have the product in hand and installed before modifying with other aftermarket parts. Consult other sources to gain any first hand knowledge of other products others have installed.

## **EXAMPLES**

The illustrations, diagrams, and examples shown in this guide are provided for reference purposes only. Actual installations may vary depending on model, configuration, or product updates. Drawings, visuals, and component layouts may differ from what is shown, but the installation principles and procedures remain the same.

### NOTE - CARE & MAINTENANCE

**Always be sure to use the anti-seize when installing and reinstalling your hub cover, otherwise removal will be very difficult!** Remove your hub cover and check inside your hub assembly regularly. If you live in a dry climate and off-road a “standard” amount, we would recommend you check your hub assembly at least once per year. If you live in a wet climate, humid climate, or a climate with extremes, we would recommend you check your hub assembly quarterly or with season changes. Climates with heavy salt content are some the harshest conditions on your components and may need to be checked more frequently. Regrease as needed.

**1” NUT - USE 36 MM SOCKET**

# IMPORTANT INFO/FAQ

## HARDWARE

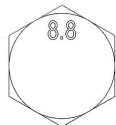
Please review for details and installation. Figures or data may vary. Leave all accessible hardware loose for installation and tighten all hardware after everything is installed on the vehicle. Check and tighten all hardware after the first 100 miles and/or after off roading.

**Some hardware locations do not require being tightened to spec due to there design, location or material attachment (including rubber, plastic, and aluminum). Over tightening may break or damage parts. Torque spec may vary, amounts listed are generic.**

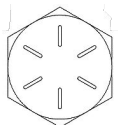
HARDWARE		TORQUE SPEC	
SIZE	SOCKET	GR5 / 8.8	GR8 / 10.9
#8	1/4"	X	
#10	5/16"		
1/4"	7/16"	6-8	9-10
5/16"	1/2"	13-14	18-20
3/8"	9/16"	23-26	33-37
7/16"	5/8"	37-41	52-58
1/2"	3/4"	57-64	80-90
9/16"	13/16"	82-91	115-129
5/8"	15/16"	112-118	159-180
3/4"	1-1/8"	200-223	282-315
1"	36MM	X	
M6	10MM	9-10	13-15
M8	13MM	22-24	32-35
M10	15MM	44-49	64-72
M12	18MM	76-83	112-123
M14	21MM	102-112	165



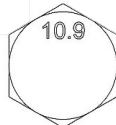
**GRADE 5**


















**CLASS 8.8**



**GRADE 8**



**CLASS 10.9**

TYPES OF HARDWARE		
		
HEX CAP BOLT	WASHER	NYLOC NUT
		
BUTTON HEAD BOLT	FENDER WASHER	HEX NUT
		
CARRIAGE BOLT	INTERNAL TOOTH	JAM NUT
		
SOCKET CAP BOLT	CLIP NUT	ACORN NUT
		
FLAT HEAD SCREW	RIVET NUT	COUPLING

### NOTE

Extra hardware may be left over due to model or option specific items that may not be required for the install. OEM hardware may vary in style or socket size from shown.

**TIGHTEN ALL HARDWARE AFTER EVERYTHING IS INSTALLED ON THE VEHICLE. CHECK AND TIGHTEN ALL HARDWARE AFTER THE FIRST 100 MILES AND AFTER OFF ROADING. CHECK REGULARLY**

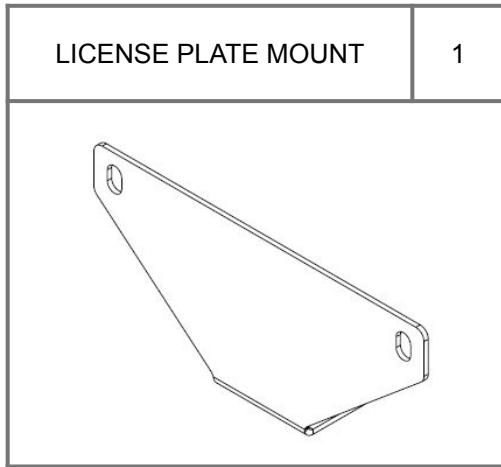
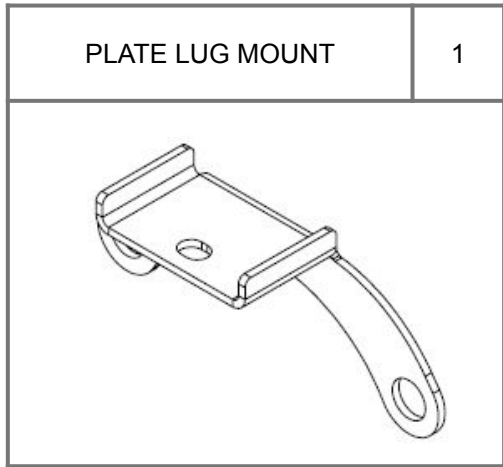
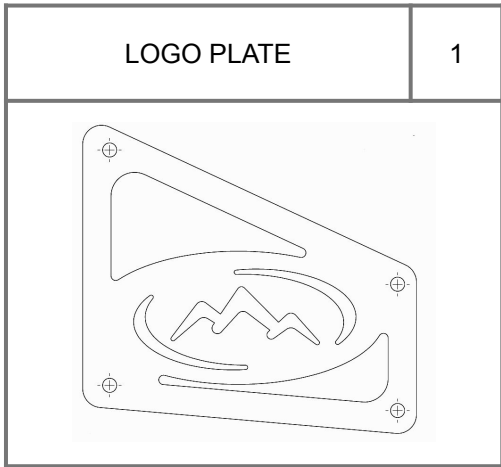
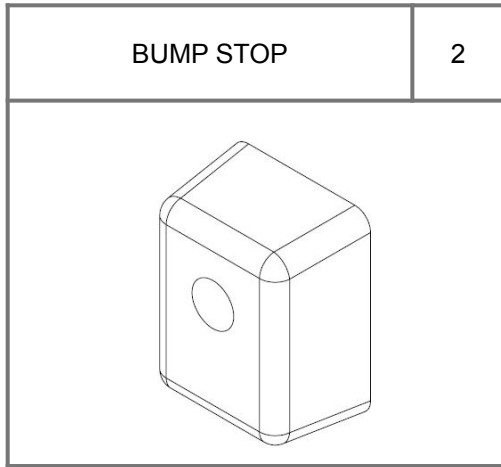
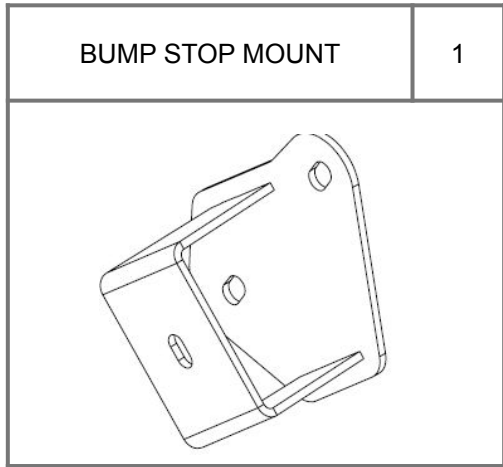
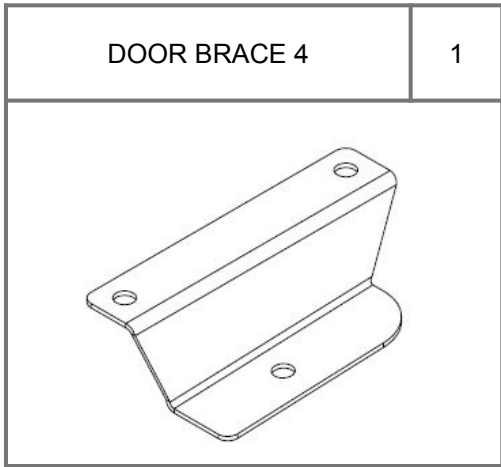
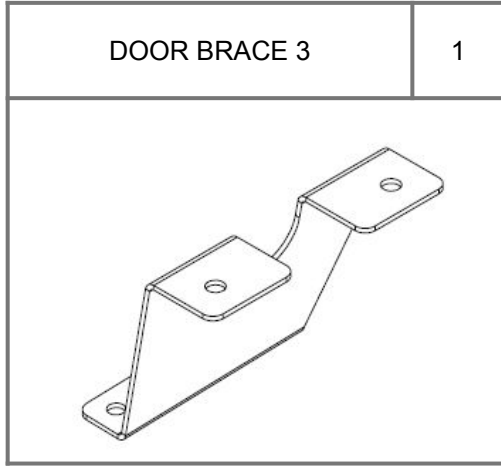
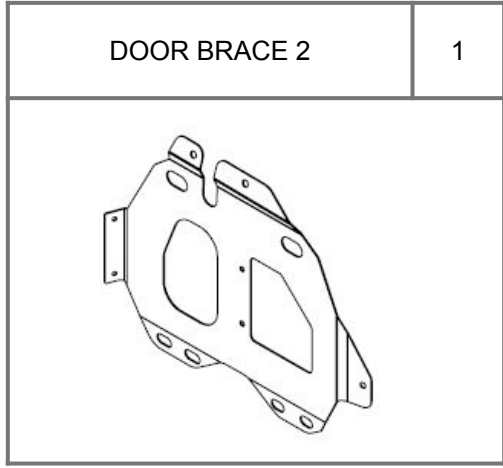
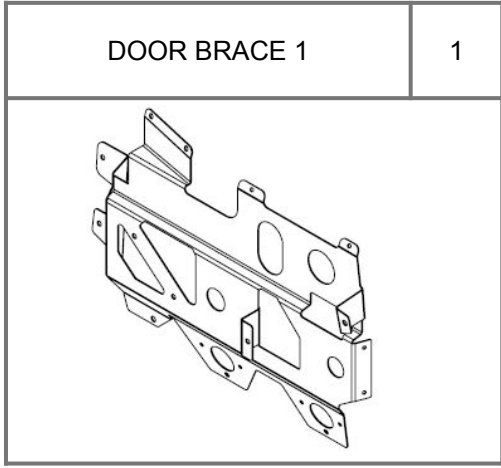
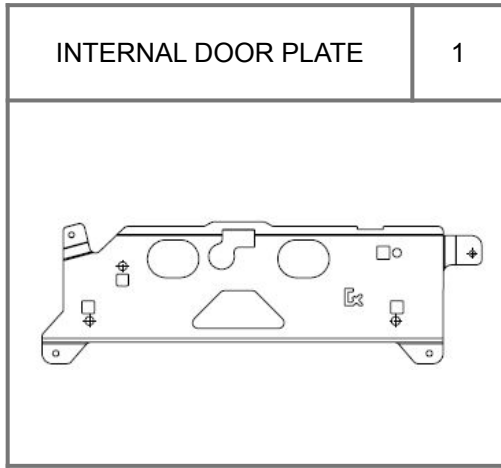
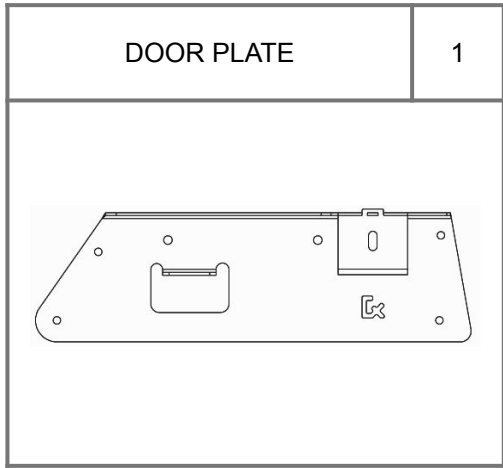
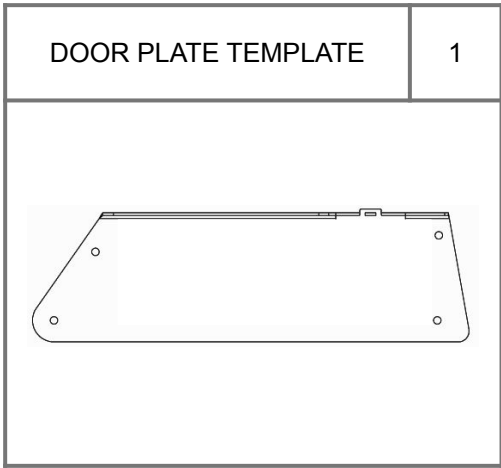
# HARDWARE

# STC BUMPER - ADDITIONAL

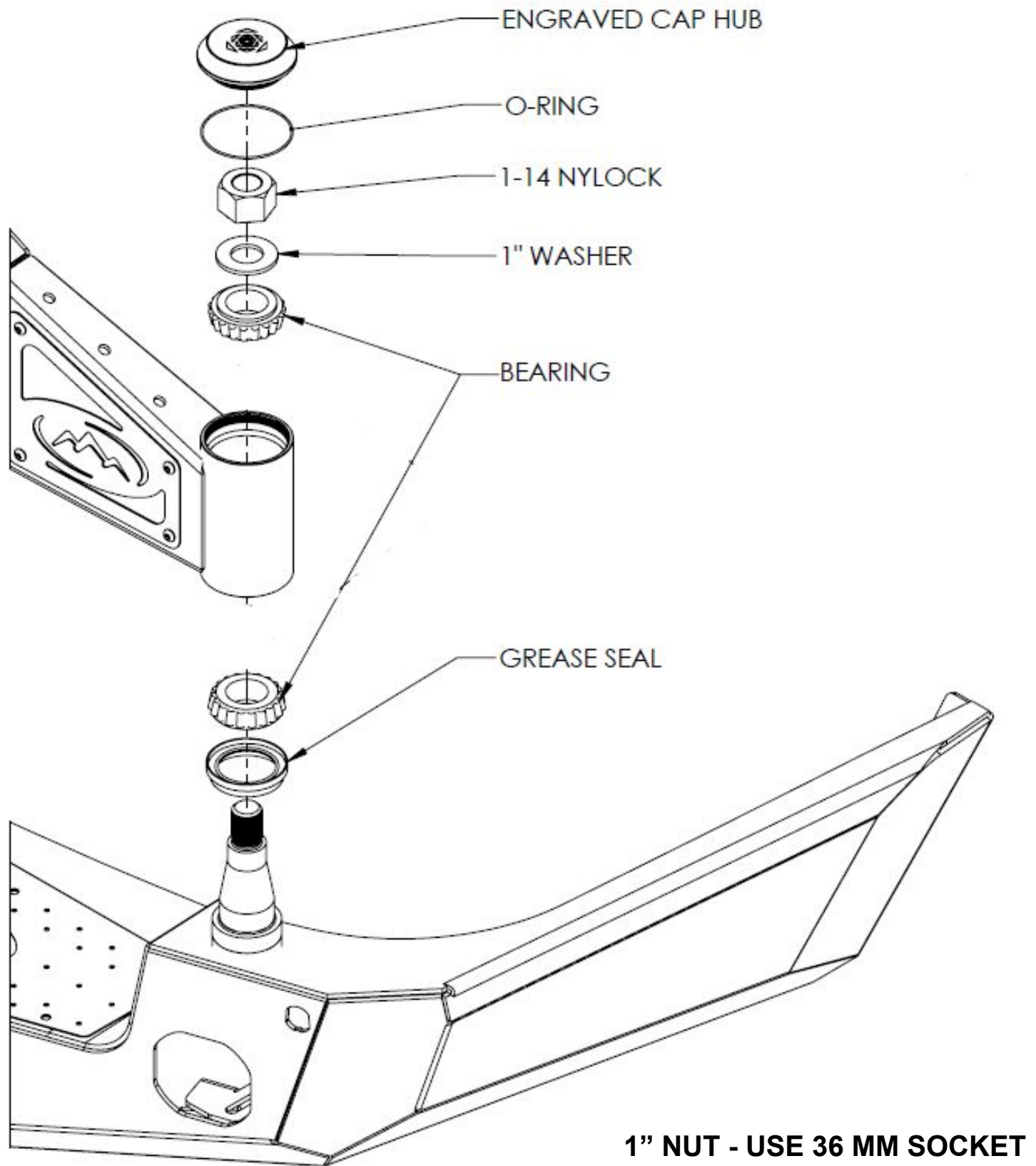
8# X 3/4" TAP SCREW	30
1/4" - 20 X 3/4" BUTTON HEAD	32
1/4" - 20 NYLOC NUT	32
1/4" WASHER	14
5/16" - 18 X 3/4" BUTTON HEAD	5
5/16" - 18 X 1-1/4" SOCKET CAP	4
5/16" - 18 X 3/4" CARRIAGE	1
5/16" - 18 CLIP NUT	5
5/16" - 18 NYLOC NUT	5
5/16" WASHER	9
3/8" - 16 X 1-1/4" HEX CAP	4
3/8" - 16 NYLOC NUT	4
3/8" WASHER	8
1/2" - 13 X 1-1/4" HEX CAP	4
1/2" - 13 X 4-1/2" HEX CAP	2
1/2" - 13 NYLOC NUT	4
1/2" WASHER	8
M6 - 1.0 X 25MM HEX CAP	2
M8 - 1.25 X 35MM SOCKET CAP	2
M8 - 1.25 JAM NYLOC NUT	2
M12 - 1.5 X 45MM HEX CAP	2
M12 - 1.5 X 50MM HEX CAP	2
LICENSE PLATE KIT ADDITIONAL - 2 TWO SIDED LUGS, LIGHT W/ BRACKET, & LUG WRENCE	1
COUPLER ASSEMBLY - 2 HEIM JOINTS, 9 SPACERS, & 1 THREAD ROD	1
DOOR BRACE ADDITIONAL - 1 TWO HOLE RECTANGLE	1
DSTC/S3 SINGLE BEARING KIT - 2 BEARINGS, 1 GREASE SEAL, 1 CAP W/ ORING, 1 NUT & WASHER	1

# HARDWARE

# STC BUMPER - ADDITIONAL



# STC SWING ARM



## REPLACEMENT PARTS

Replacement parts available at local auto part stores or directly from the Expedition One Store  
(see Replacement Parts tab)

BEARINGS - WTA5  
GREASE SEAL - 5121

# RESUME FROM LAST STEP OF BUMPER INSTALL

## 1 – SWING ARM MOUNTING

First mount the provided logo plat to the arm using the provided 1/4 button head bolts. Grease the bearings using marine-based lithium grease. Install the first bearing into the bottom of the swing arm. Then place a grease seal inside the bottom of the arm.



Place the arm on the spindle and move the arm until it falls into place. Insert the bearing into the top of the arm. Make sure the arm is fully seated.



Place the washer into the swing arm, then insert the nut over the bolt. Tighten the nut using a 36mm socket. Don't over tighten to prevent binding. Lightly oscillate the arm up and down while tightening to help it seat.



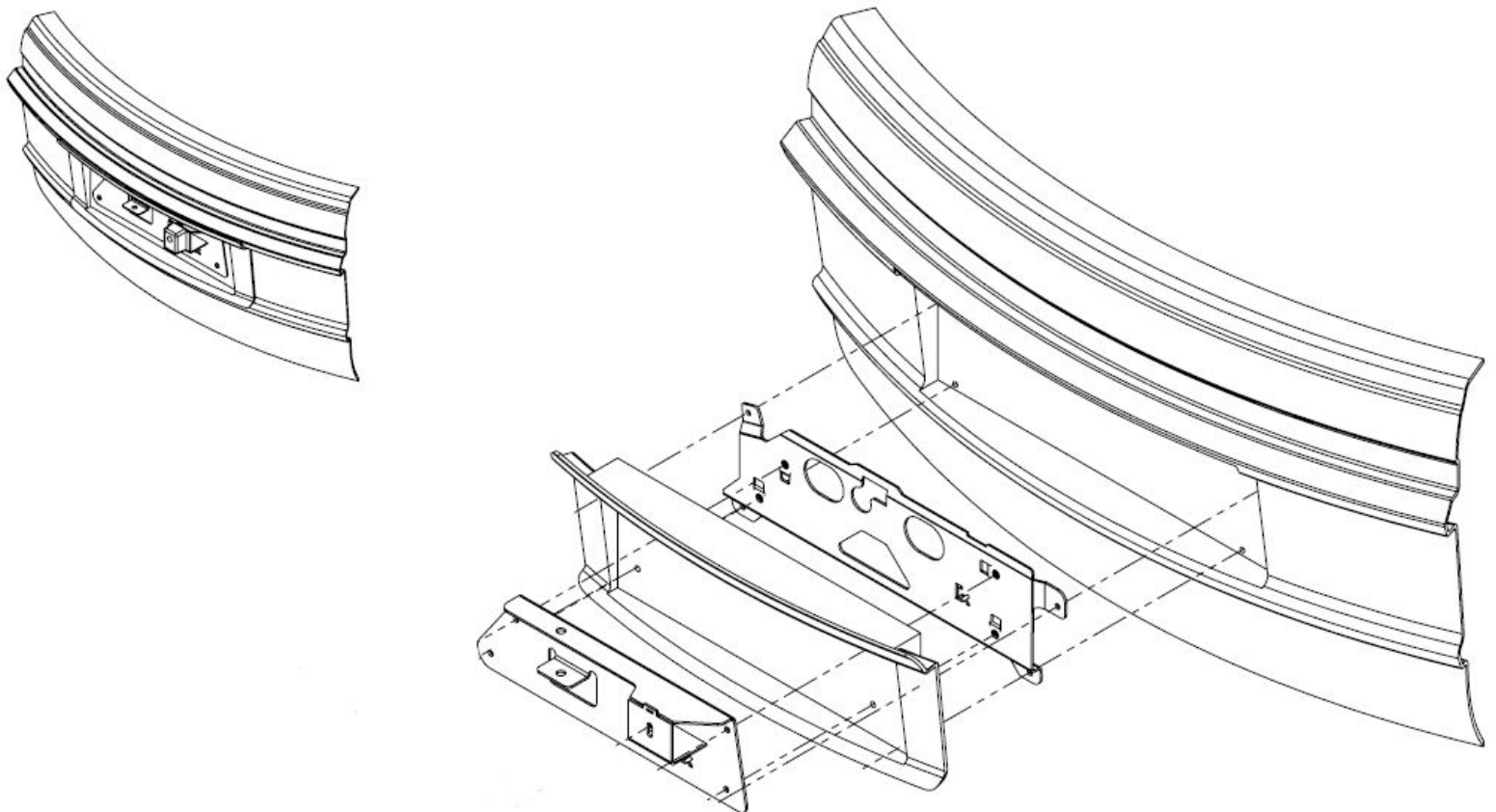
Ensure that the inside of the spindle and its contents are coated thoroughly. **Check that the hubcap has an o-ring and spread anti-seize around the cap thread before tightening on the arm.**

#### NOTE - CARE & MAINTENANCE

**Always be sure to use the anti-seize when installing and reinstalling your hub cover, otherwise removal will be very difficult!** Remove your hub cover and check inside your hub assembly regularly. If you live in a dry climate and off-road a “standard” amount, we would recommend you check your hub assembly at least once per year. If you live in a wet climate, humid climate, or a climate with extremes, we would recommend you check your hub assembly quarterly or with season changes. Climates with heavy salt content are some the harshest conditions on your components and may need to be checked more frequently. Regrease as needed.

## DOOR PLATE DIAGRAM

NOTE - Both the license plate panel and interior door trim will need to be removed - The internal door plate mounts behind the license plate panel as shown. Not inside of the door or the interior side of the vehicle.



## 2 – TRIM AND DOOR PLATE REMOVAL

Remove the interior trim panel by removing the hardware behind the storage pockets and pulling the ends away from the door. Pull back the plastic cover to gain access to the hardware. Unbolt the hardware connecting the exterior door panel and handle as well as disconnecting wiring before removing.



Remove the center section .



Unclip the sides, pulling towards the door center



Hardware Locations



Hidden clip location



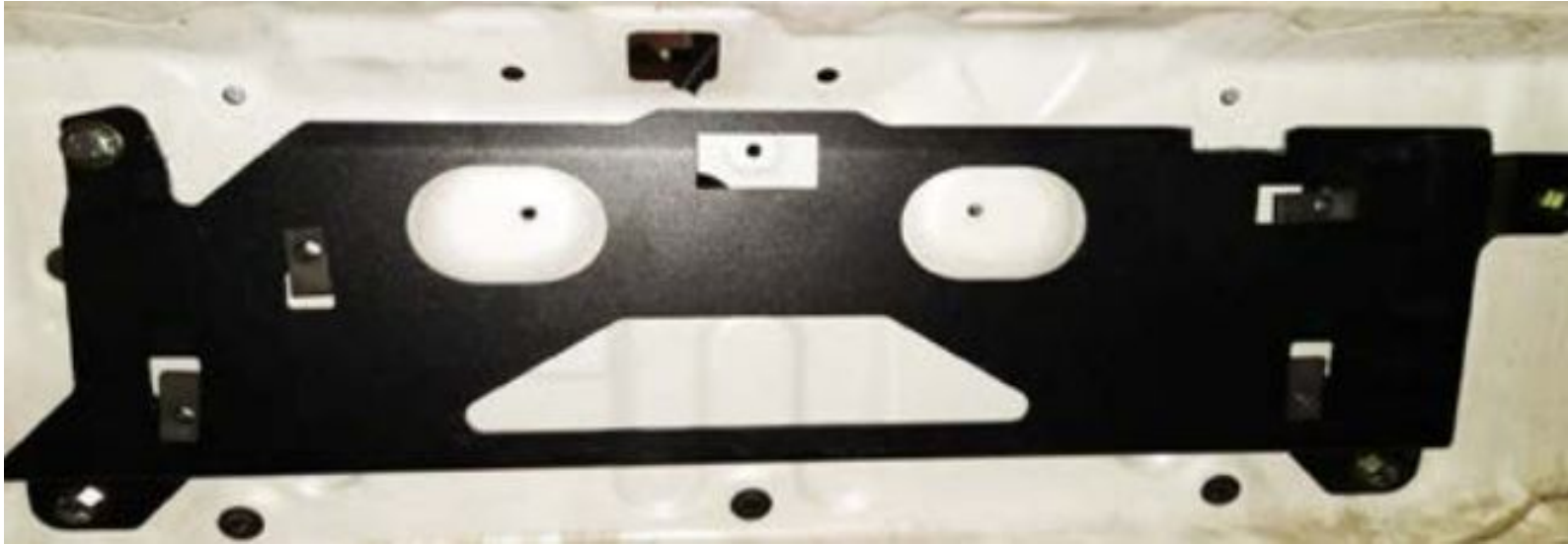
### 3 – DRILLING TEMPLATE

Start by taking the internal door plate and placing the template over the top - lining up the holes. Take the template and internal door plate and match them to the rear door license plate holes. With the internal door plate in place mark the locations (as circled). Drill the holes to fit 5/16" hardware and paint to prevent rust. The plates can be bolted together to help align the template.



## 4 – INTERNAL DOOR PLATE MOUNTING

Attach the clip nut hardware into place and mount the internal door plate to the rear door using 5/16" hardware.



5/16" - 18 X 3/4" BUTTON HEAD	4
5/16" - 18 CLIP NUT	4
5/16" - 18 NYLOC NUT	4
5/16" WASHER	4

## 5 – DOOR PANEL DRILLING

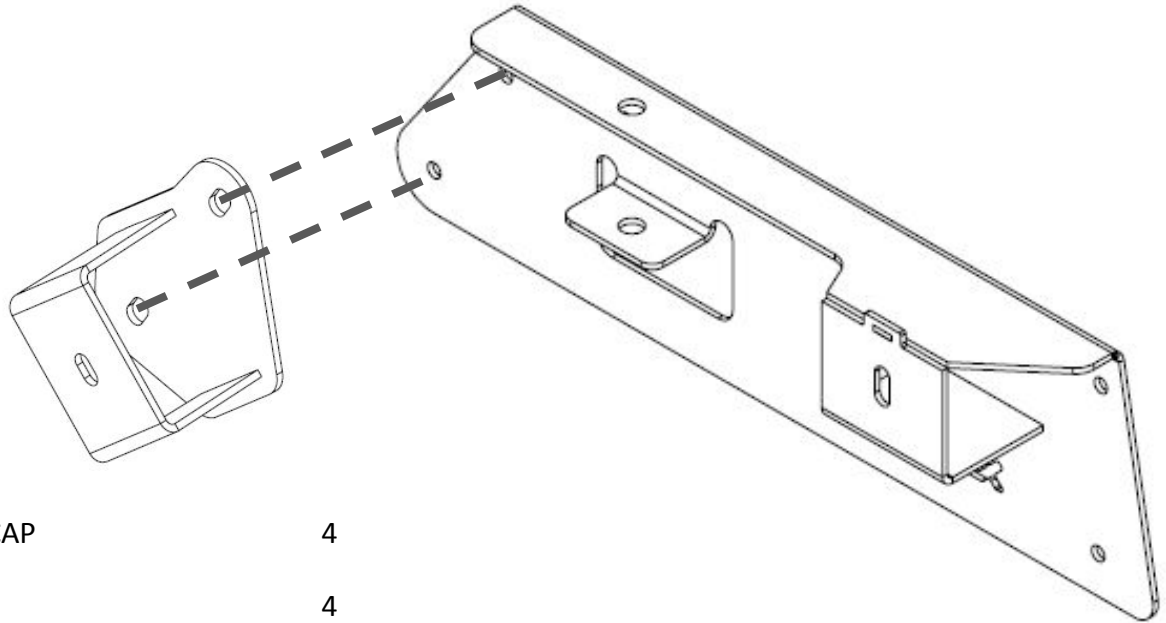
Align the door template with the license plates holes on the exterior door panel and mark the locations (as circled) for drilling holes to fit 5/16" hardware. Reinstall outer door panel.

NOTE If attaching accessories for backup camera bracket see those instructions for wiring and other hardware before replacing door panel or interior trim.



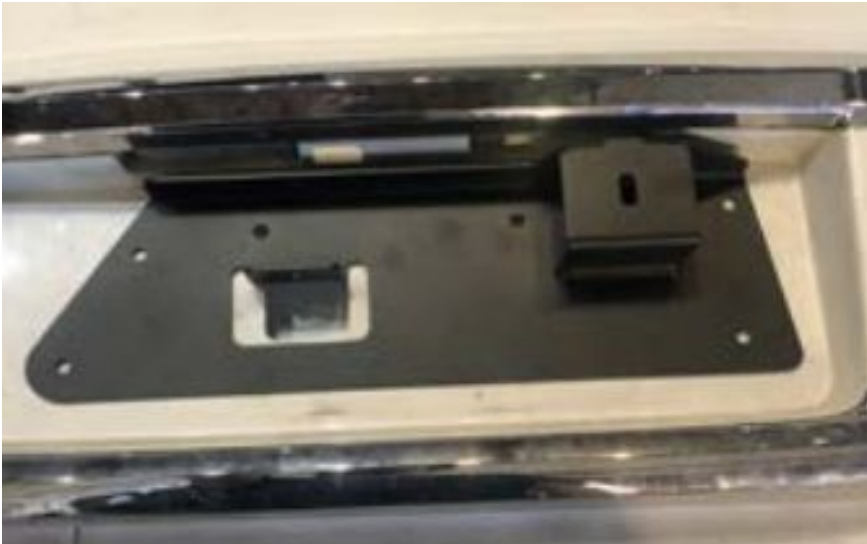
## 6 – DOOR PLATE MOUNTING

Attach the door plate to the exterior door panel using 5/16" hardware.



5/16" - 18 X 1-1/4" SOCKET CAP 4

5/16" WASHER 4

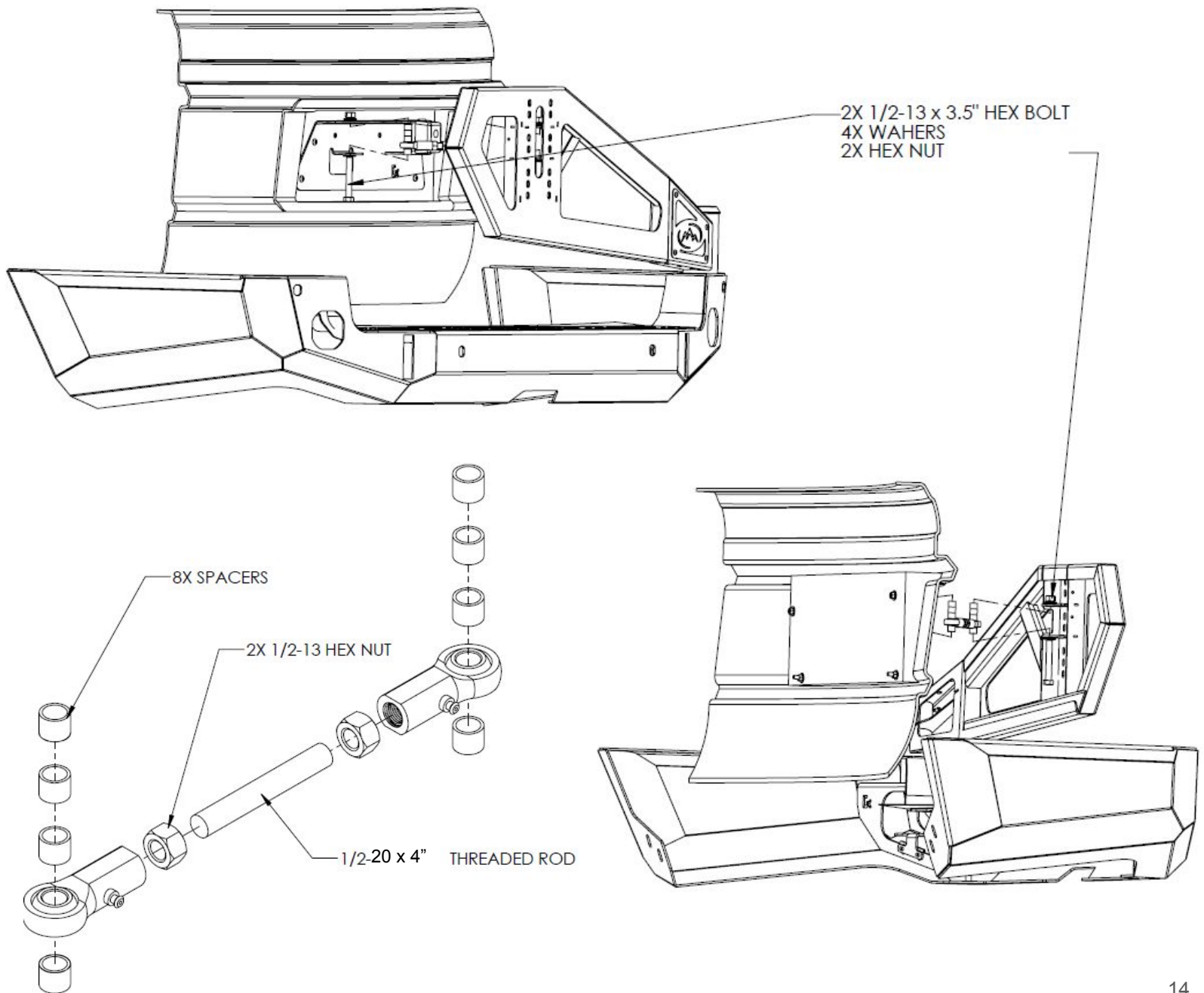


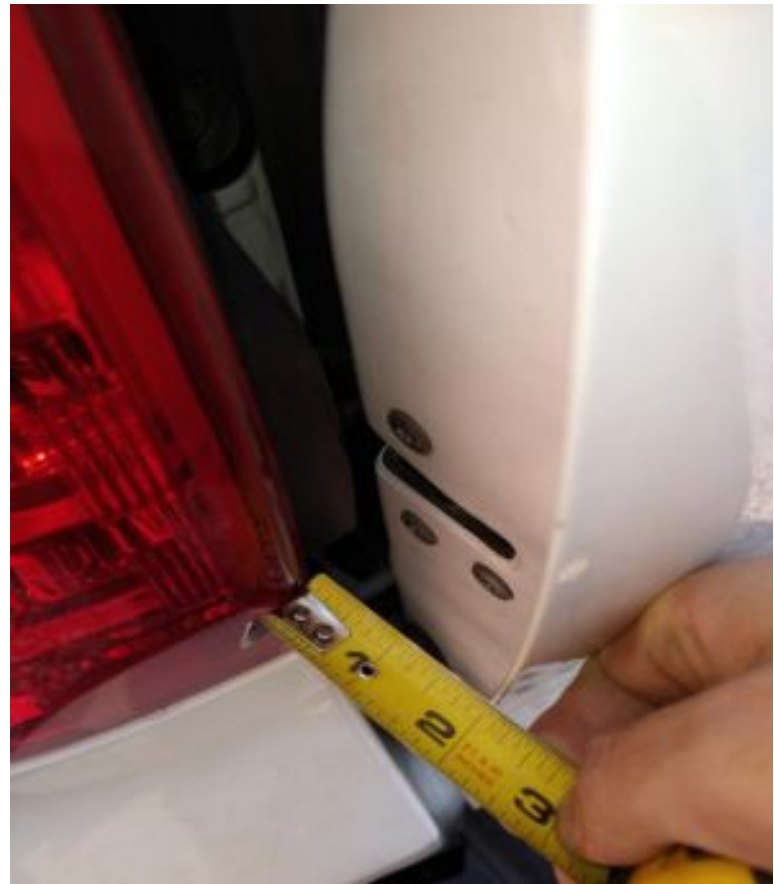
Mount both bump stops to raised sections using the provided M8 hardware. Use the provided shims and adjust as needed for proper alignment and contact with the swing arm once fully connected.



## 7 – SWING ARM ATTACHMENT

Connect the swing arm and door as shown using the provided hardware and coupler with spacers. The door and the carrier swing at slightly different angles. With the door in the closed or almost closed position, the bump-stop needs to be making contact with the door. Adjust the coupling joint so that when the door is open and is 1 to 2 inches from closing, the bump-stop initially contacts the door mount plate on the tailgate (this may need to be adjusted later when the spare tire is mounted to the carrier). You want the carrier to shut and be snug but not overly tight. If the door swings with little or no binding the installation can now be completed. Check the swing of the arm, if there is little or no binding you may finish the install and tighten all hardware. NOTE - The arm and bump stops should hit evenly when the closing. The license plate panel should press in or flex out at the corner gaps evenly. Should one side press in or flex out more than the other side, space out the opposite side bump stop





**NOTE - DO NOT OVER TIGHTEN THE COUPLER**

- Check that the door and swing arm are not binding and are adjusted accordingly
- Some movement in the carrier is normal as both the door and swing arm are separate items. Do not over tighten mounts or modify items to compensate for this.
- Check bearings and seal regularly for maintenance.

## 8 – INTERNAL DOOR BRACE MOUNTING

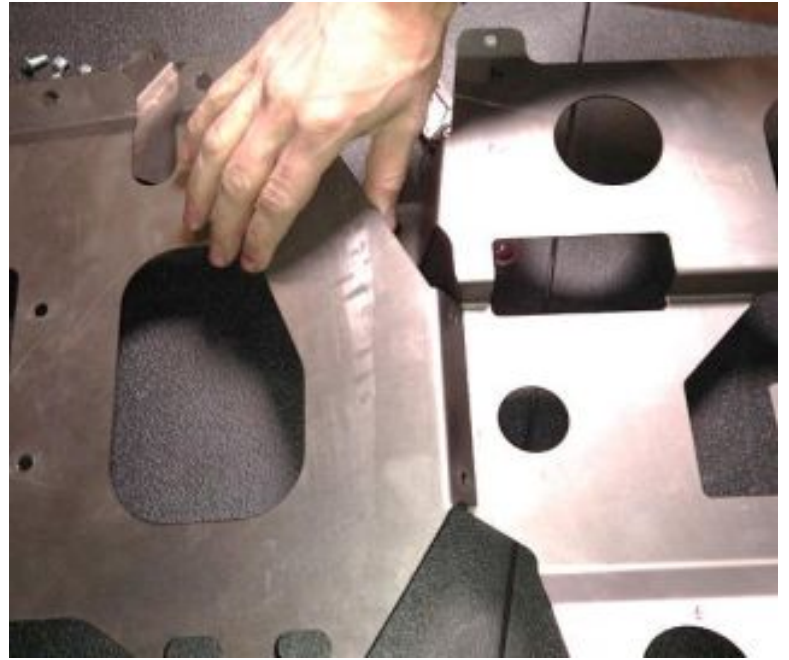
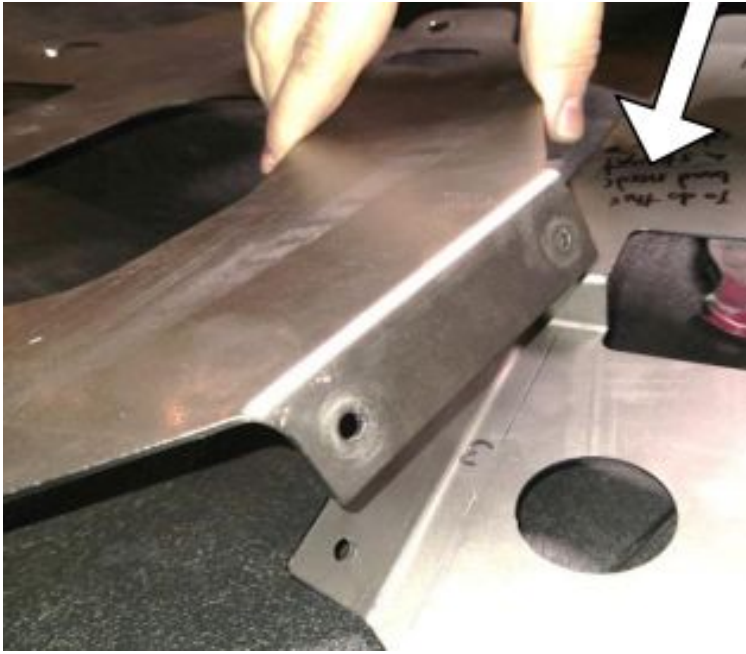
On the interior door trim, start by removing part of the plastic rib located at 7 1/2" to allow for bolt clearance. Measure from the side as shown and clear a section level with the panel. Also remove the 2 OEM black tabs on the lower edge of the door for the tool kit.



Mount the bracket to the large center section as shown and mount with provided 1/4" button head hardware



Mount the small center section to the large center section as shown and mount with provided button head hardware. The small piece must overlap the larger piece.



Insert the remaining bracket into the door pocket as shown for mounting later.



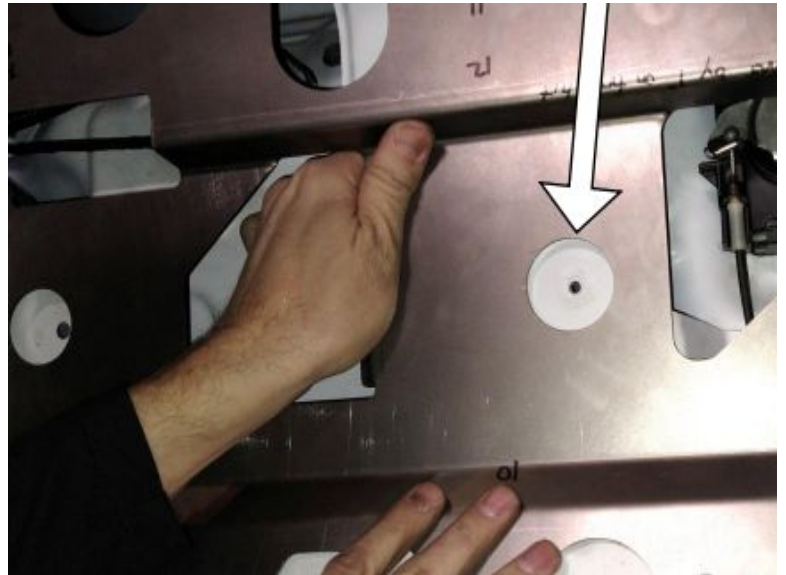
Place the internal brace as shown on the door.



Loosely remount the 2 OEM black tabs on the lower edge of the door for the tool kit. Mount the bracket located in the door pocket to the small center section as shown and mount with provided button head hardware.



Before mounting in place for hole marking, center the bolt location and hole as shown below. Use the provided tap screws to mount.



For the hole as shown below use the provided clip nut and spacer. Mount using the provided 5/16" button head hardware.



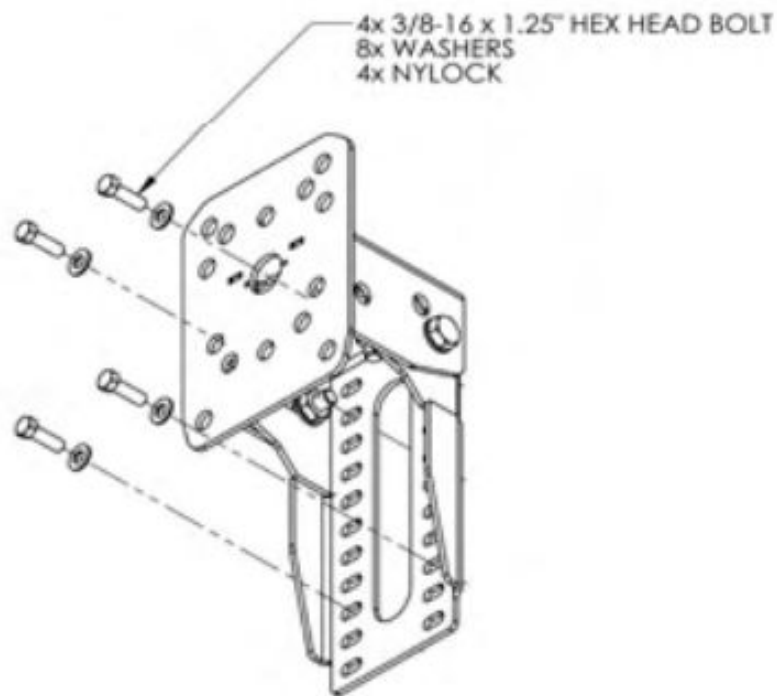
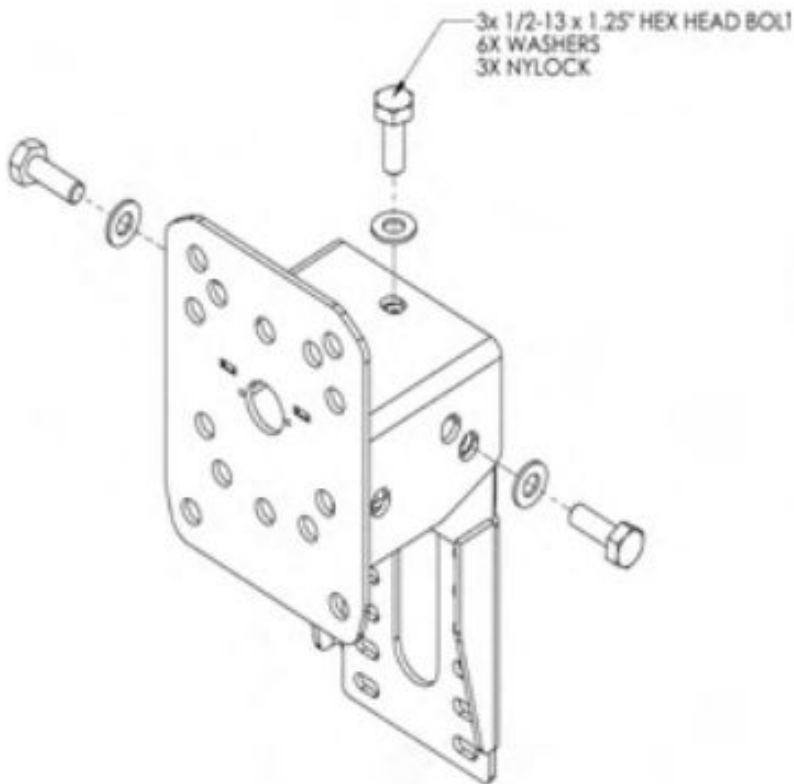
Remount all interior trim and hardware.

## 9 – SWING ARM ATTACHMENT

Test fit your tire and rim size to the correct pattern and press in the provided studs (and spacers if needed depending on offset). Assemble the tire mount as shown with the provided hardware. Once completed mount to the swing arm using the 3/8" hardware. Tire mount position is dependent on tire and wheel size and providing clearance for any hardware, accessories or OEM vehicle features such as lights. Check for any interference before mounting and adjust to fit before tightening all hardware

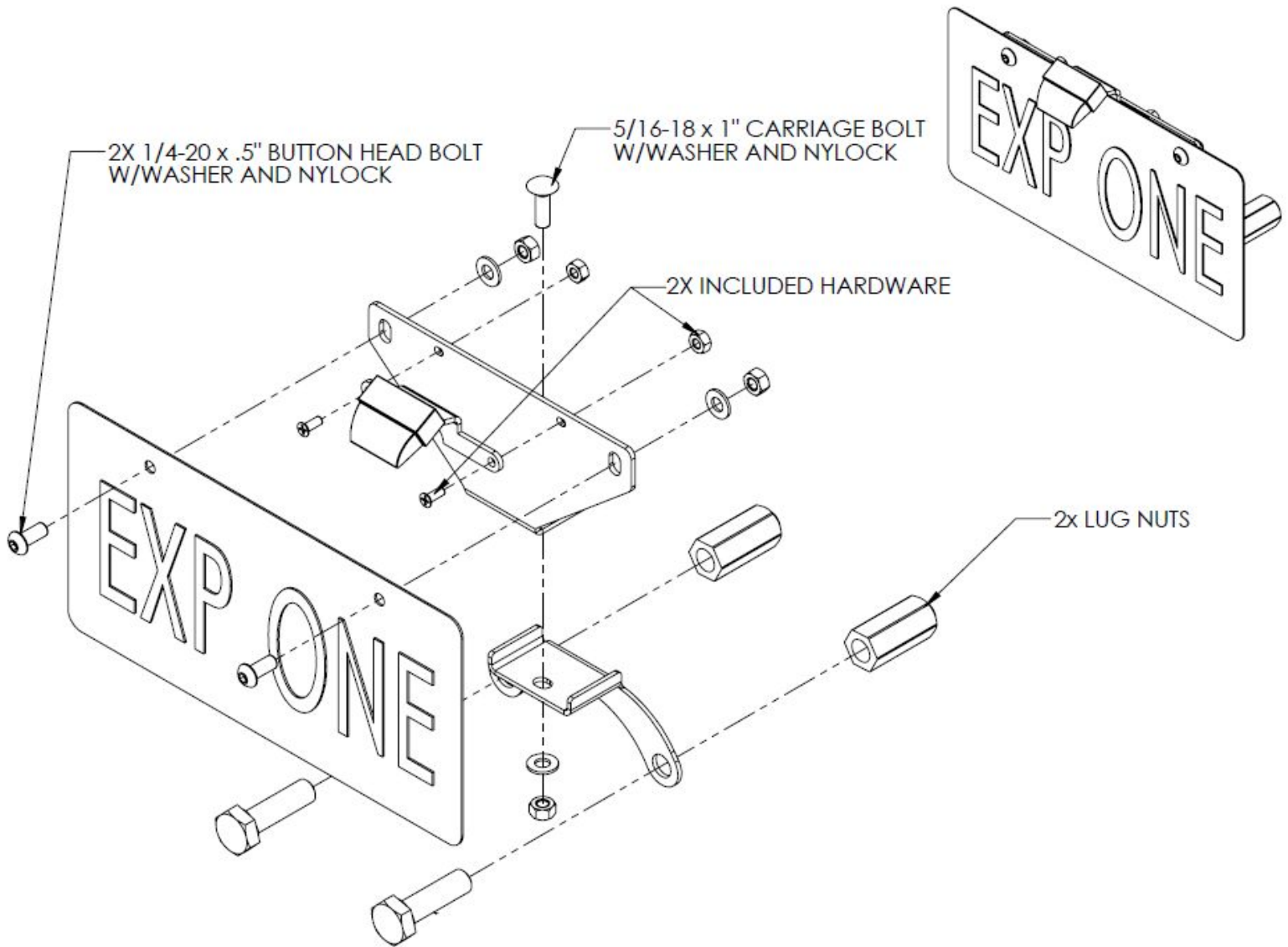
Mounting the tire carrier in a high position may result in damage and will NOT be warranted. Mount as low and tight to the arm as possible. IE-Think of your tire as a heavy box you are carrying. Carrying it close and level to you is better than carrying above and away from you.

See Universal Tire mount guide on site for addition info



## 10 – LICENSE PLATE MOUNT

Assemble the license plate relocation as shown using the provided hardware.



TIGHTEN ALL HARDWARE AFTER EVERYTHING IS INSTALLED ON THE VEHICLE. CHECK AND RETIGHTEN ALL HARDWARE AFTER THE FIRST 100 MILES AND AFTER OFF ROADING. CHECK REGULARLY AFTER EXTENDED OFFROAD USE