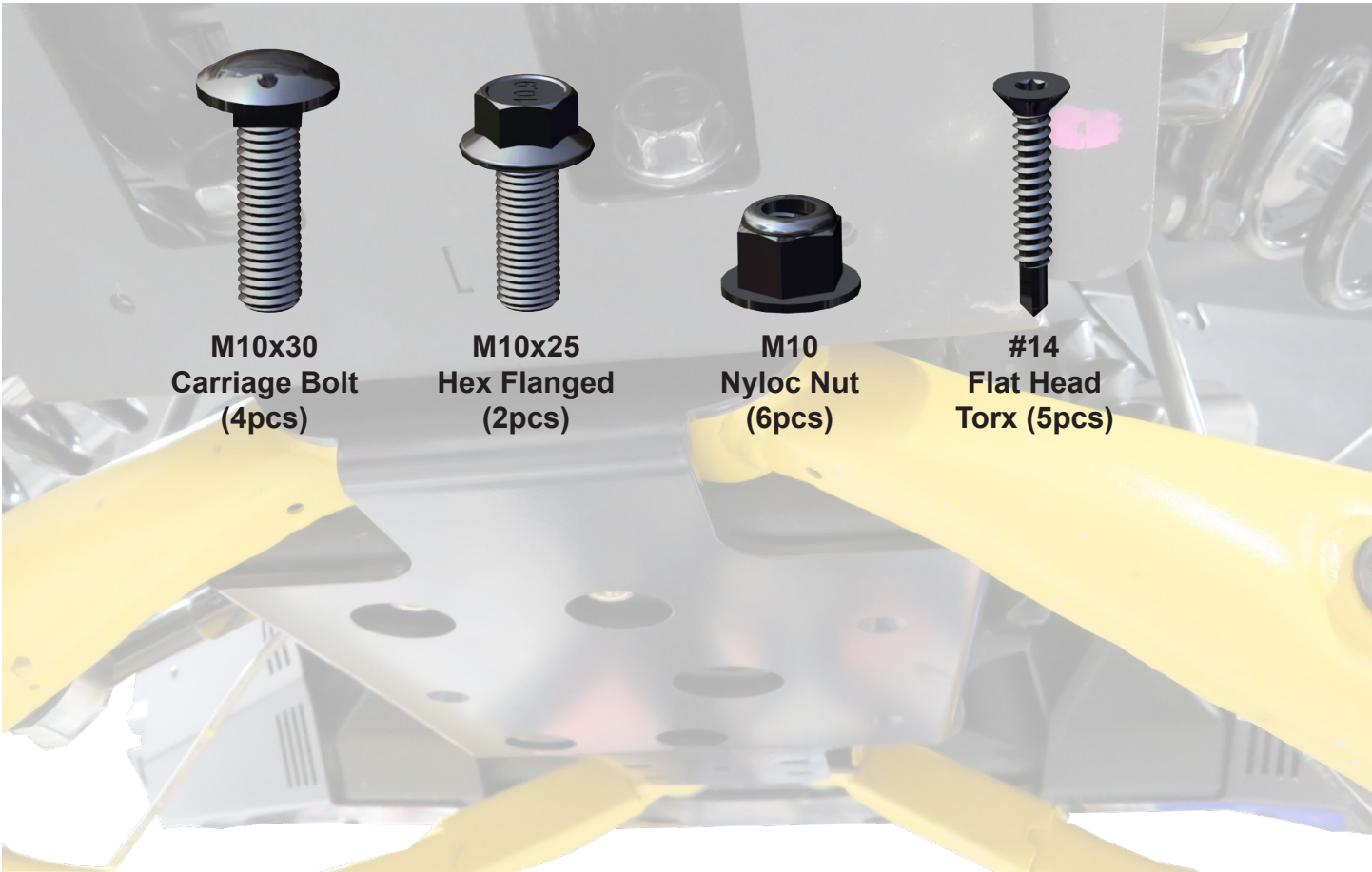
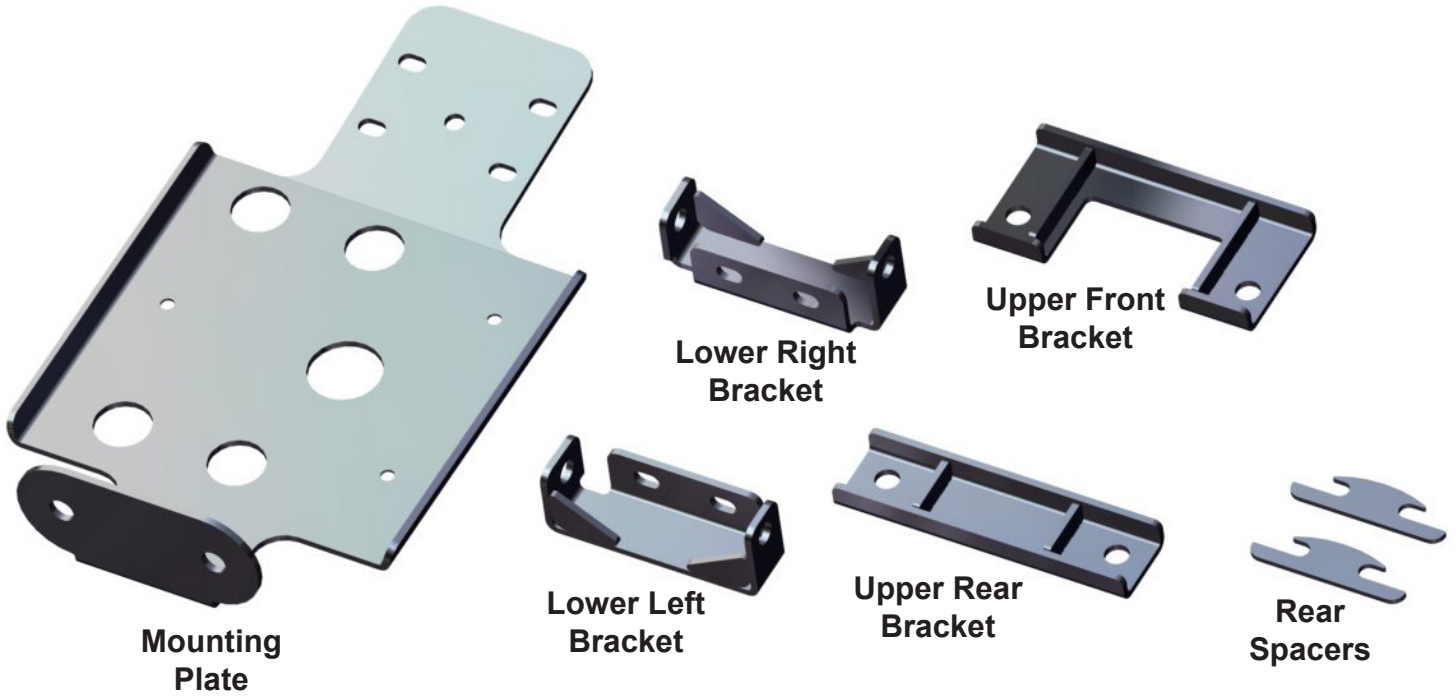


INSTALLATION INSTRUCTIONS

Frame Stiffener: FS-CA-MAVR



NOTE:The first thing you need to do is raise the vehicle up off the ground so that the front shocks and suspension will hang freely as you will be removing the shock for this installation. A proper vehicle lift or safe jackstands will be required.

1. With the vehicle up off the ground, you will need to remove the two (2) Bumper Bolts as shown in **Fig.1**. These are right above the winch or where one would be mounted on your machine. We will be removing the front bumper.



Fig.1

2. Now you will need to remove the inner bumper bolts as shown in **Fig.2a-b**. These are the ones holding the ends of the bumper to the machine. There is one on each right and left sides. .



Fig.2a

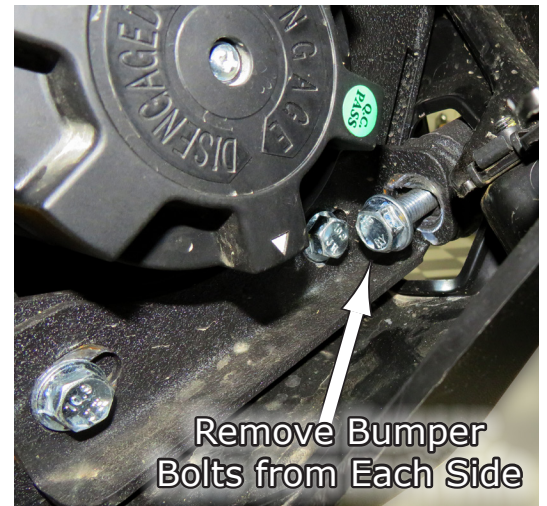


Fig.2b

3. **Fig.3** shows Bumper and Bolts removed from the vehicle.

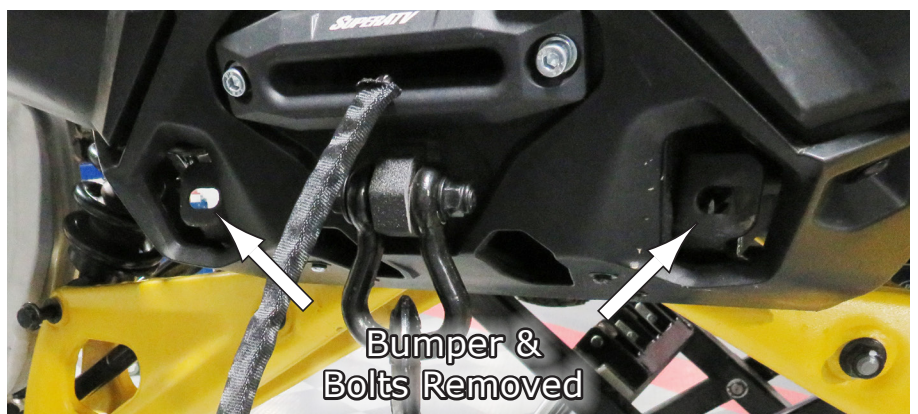


Fig.3



4. After the bumper is removed, we will remove the front plastic. To do this, pull the winch cable out a little bit as we will remove the front plastic and let it hang. **Fig.4a** shows this. Then remove the four (4) screws for underneath the front plastic as shown in **Fig.4b**.



Fig.4a



Fig.4b



5. Next, remove the two (2) screws from each side of the front plastic as shown in **Fig.5a**. Then remove the two (2) Winch Fairlead screws as shown in **Fig.5b**, then let that section hang on the winch line as shown in **Fig.5c**.

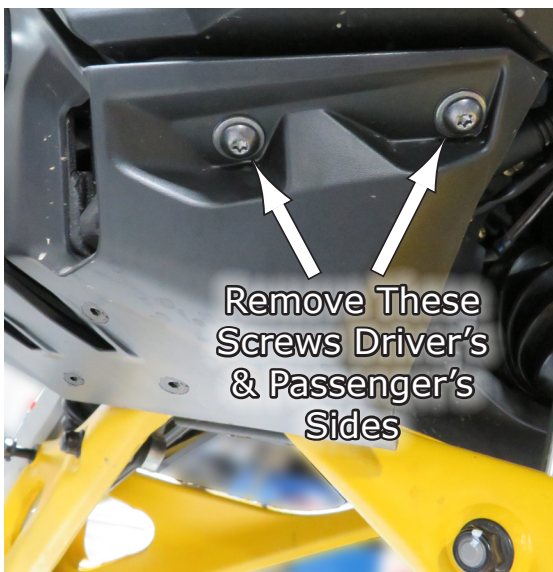


Fig.5a



Fig.5b



Fig.5c

6. Now, from the front, you will need to remove both Left & Right front A-Arm Bolts as shown in **Fig.6a**. **Fig.6b-c** show the bolt removed viewed from the front and side. Repeat for both front A-Arms.

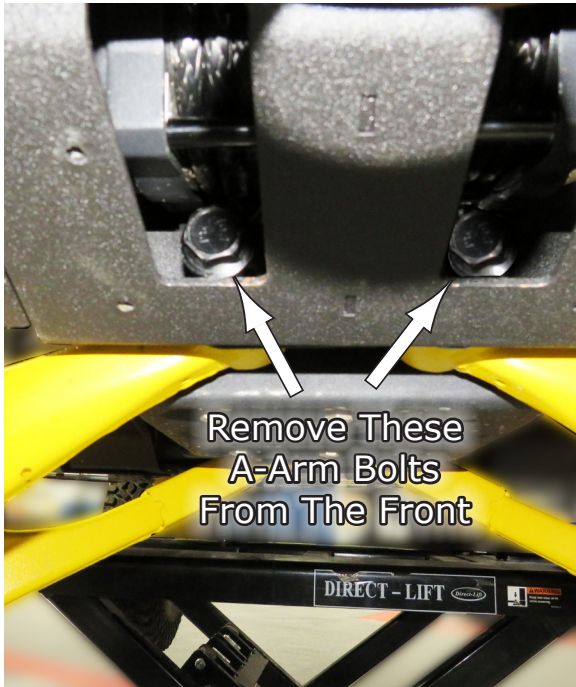


Fig.6a

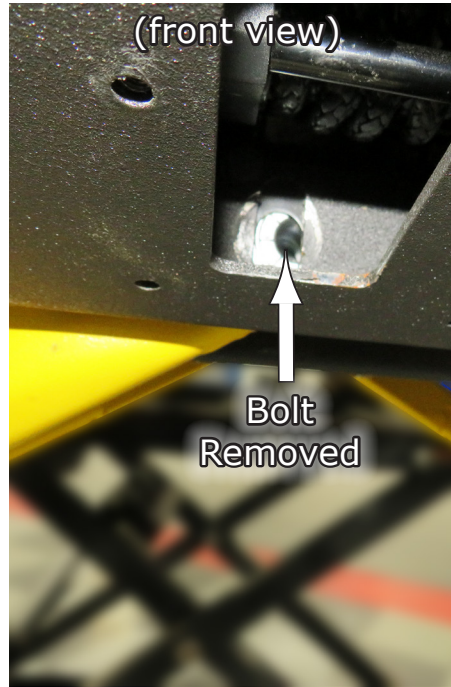


Fig.6b

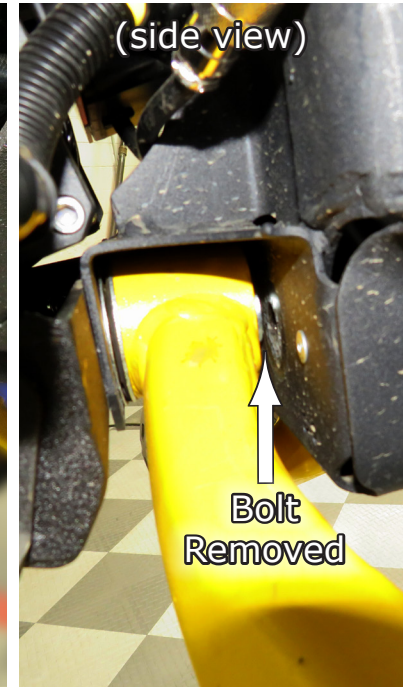


Fig.6c



7. After the A-Arm bolts are removed, you are ready to install the main **Mounting Plate** from your kit. The two (2) bolt hole lip of the plate goes between the A-Arms and the frame. However, you will need to get a pry bar and pry apart that area in order to gain some space to insert the **Mounting Plate**. Then insert the **Mounting Plate Lip** into that space. You will need to align the A-Arm holes in the front To the holes in the Mounting Plate and with the A-Arms.

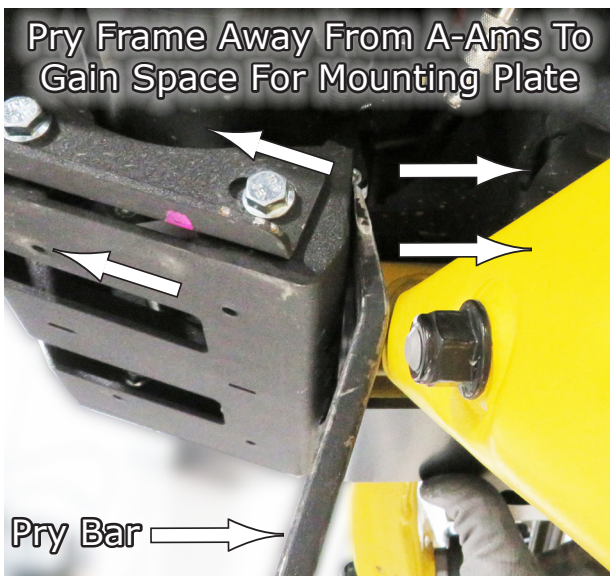


Fig.7a



Fig.7b

8. Once the **Mounting Plate** is placed up into the space and all holes are aligned, now reinstall the **Factory A-Arm Bolts** you removed previously, but **DO NOT tighten** down until all parts from your kit are installed. You may need to move things around a little bit for all to fit. Then you can them all down.

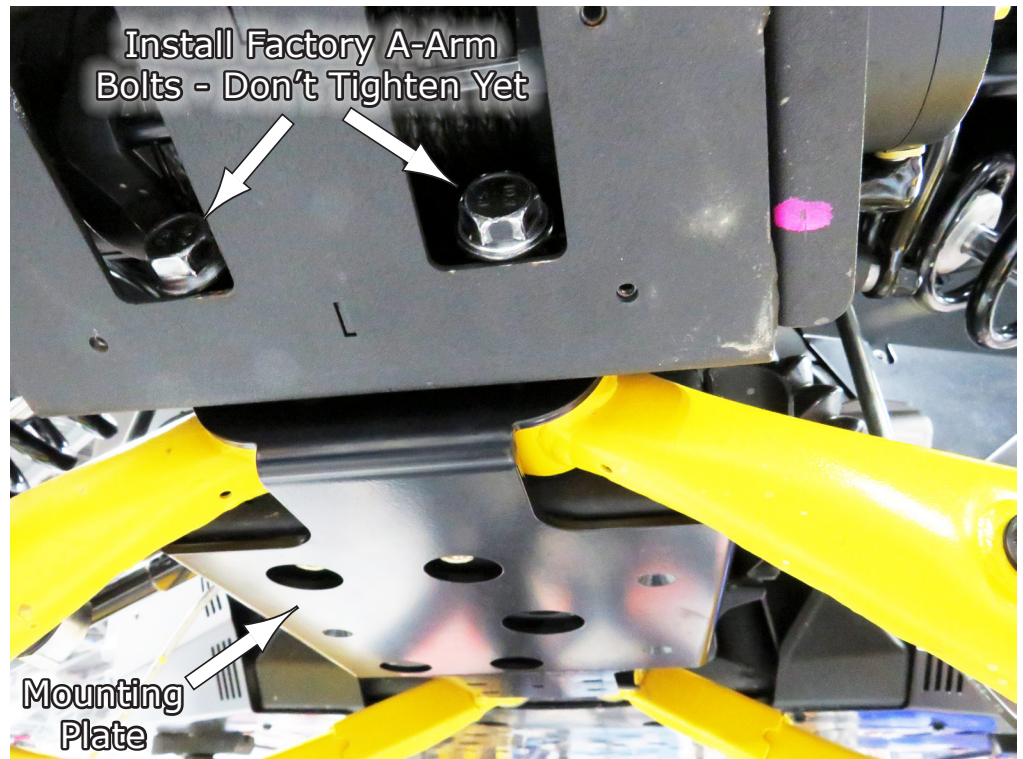


Fig.8

9. Now you need to remove the Lower A-Arm Bolt, shown in **Fig.9a**, so you can install one of the new Brackets. **Fig.9b** shows the **Lower Right Bracket** installing into the pocket area. **Fig.9c** shows bracket in place and rear bolt hole is aligned first, then install the **M10x25 Hex Flanged Bolt** and **M10 Nylock Nut** provided in your kit in this location. See **Fig.9d**.



Fig.9a

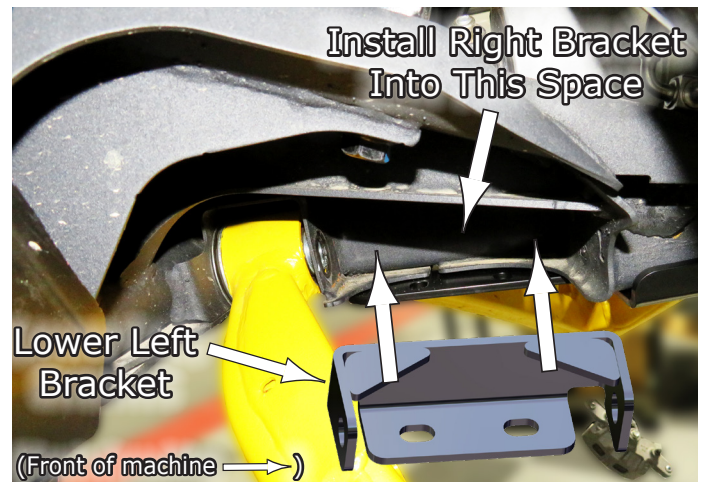


Fig.9b



Fig.9c

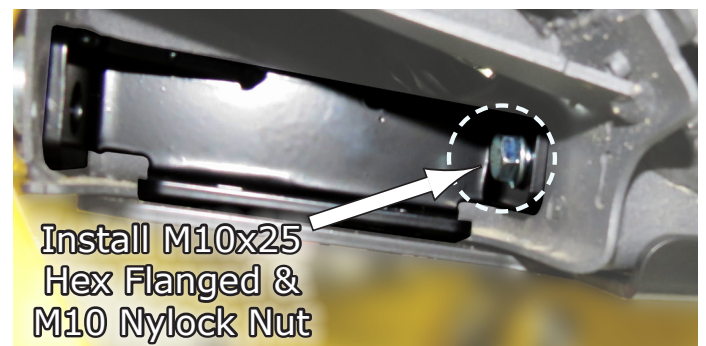
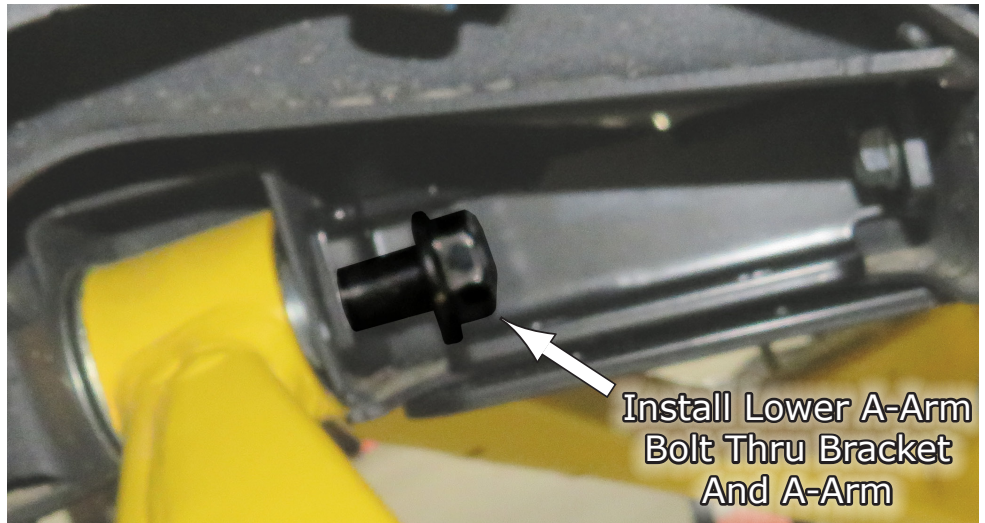


Fig.9d

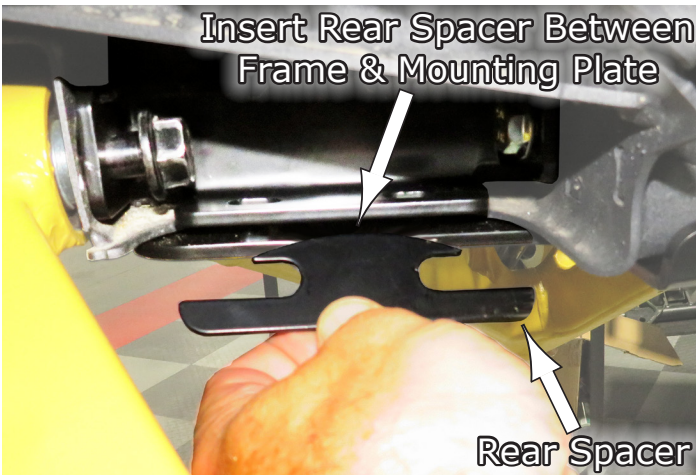
10. Next, install the lower A-Arm bolt back through the bracket and A-Arm as shown in **Fig.10**. You may need to wiggle the arm a bit to align all the plates to enable the bolt to feed through.



Install Lower A-Arm Bolt Thru Bracket And A-Arm

Fig.10

11. Now you'll need to insert the **Rear Spacer** in-between the vehicle frame and the **Mounting Plate** from your kit you installed previously. See **Fig.11a**. Slide it into position so that the bolt holes in the **Mounting Plate** (viewing from underneath looking up) align with the slots in the **Rear Spacer**. **Fig.11b** shows this in position ready to install the **Carriage Bolts** next.



Insert Rear Spacer Between Frame & Mounting Plate

Rear Spacer

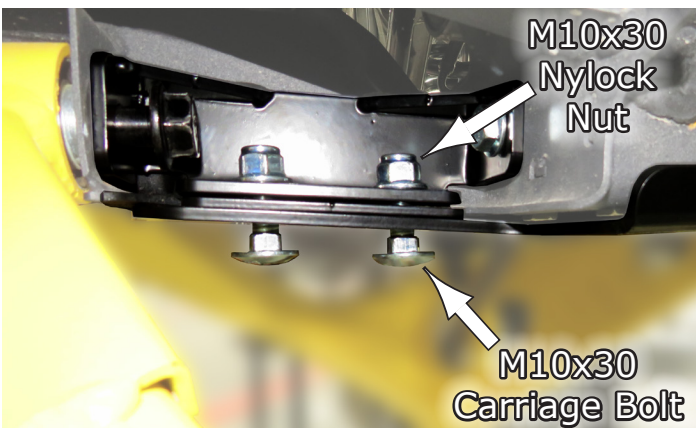
Fig.11a



Rear Spacer In Place

Fig.11b

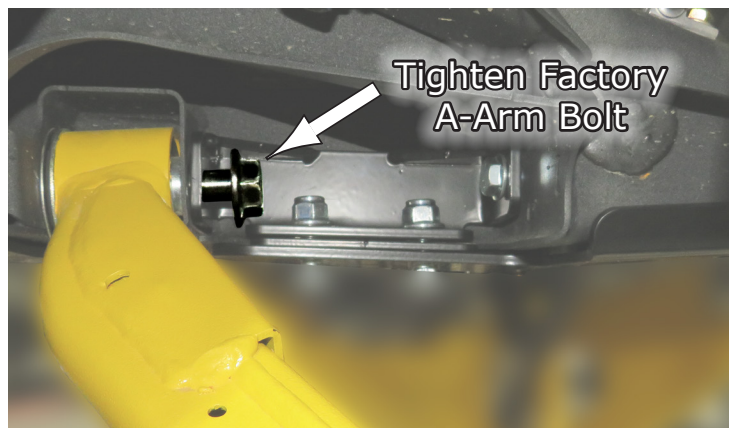
12. After the **Rear Spacer** is in place, you can now install the **M10x30 Carriage Bolts** and **M10 Nylock Nuts** feeding from the bottom up through the **Mounting Plate**, Frame and **Rear Spacer** you just installed. Then hold in place with the **M10 Nylock Nuts** all provided in your kit. See **Fig.12a**. Then tighten your **Factory A-Arm Bolt** to factory specs. See **Fig.12b**.



M10x30 Nylock Nut

M10x30 Carriage Bolt

Fig.12a



Tighten Factory A-Arm Bolt

Fig.12b

NOTE: Now go back and tighten ALL bolts and nuts. Repeat these same steps for the opposite side installation.

13. Next you can go ahead and reinstall the front bumper items you removed previously. **Fig.13a-b** shows reinstalling the lower screws. Install and tighten securely both sides.



Fig.13a

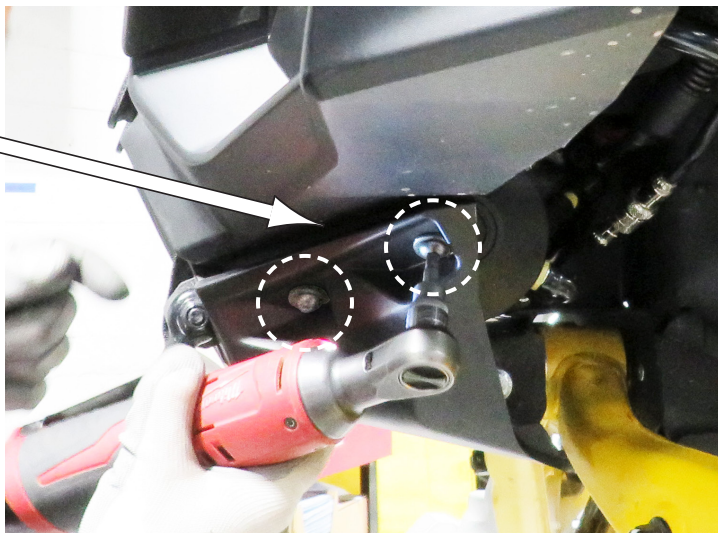


Fig.13b

14. There are Five (5) **Flat Head Torx Screws** in your kit for you to use in the case you have a skid plate in this location. If so, start with the Center screw hole first, See **Fig.14**, to position the plate, then install the other four (4) screws in the plate.



Fig.14

15.Next, now you need to remove the **Hood Cover** as shown in **Fig.15a**. This will give you access to work from above in the next steps. See **Fig.15**.

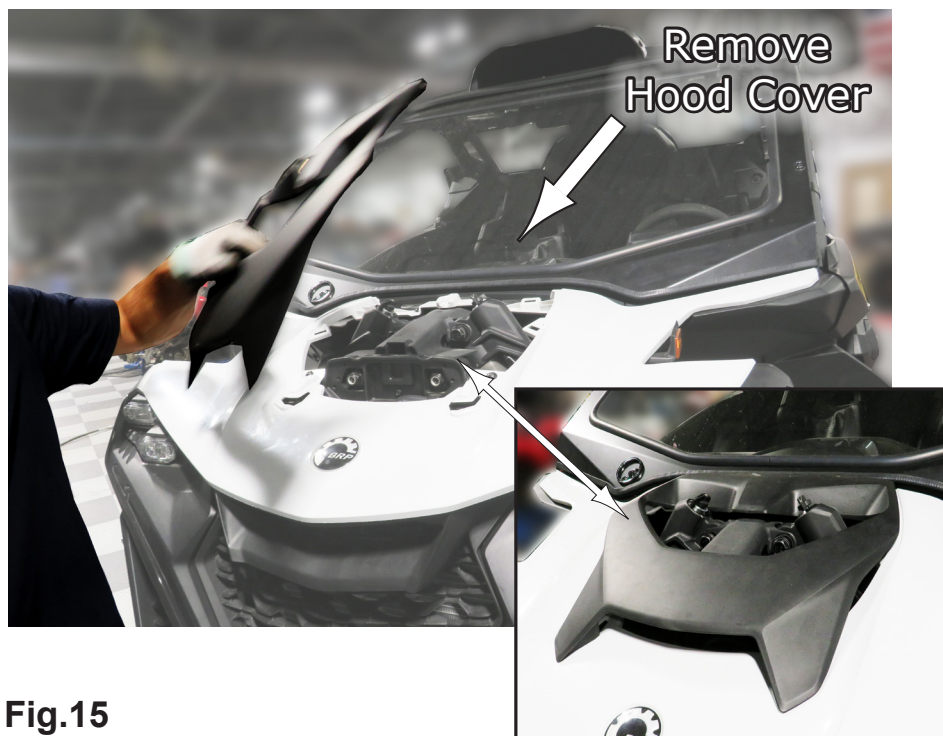


Fig.15

16.Now you will be installing the **Upper Front & Rear Brackets**. In order to do that, you will need to remove the shock. First remove the bolt as shown in **Fig.16a**, then raise the arm up out of the way as shown in **Fig.16b**.

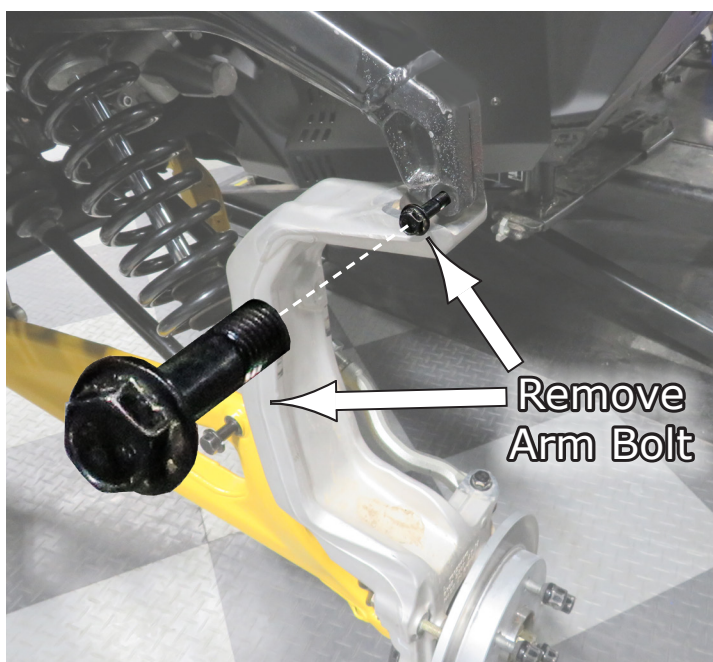


Fig.16a

Fig.16b

17.Remove the Lower Shock Bolt and let shock rod fall and rest. See Fig.17a-b.

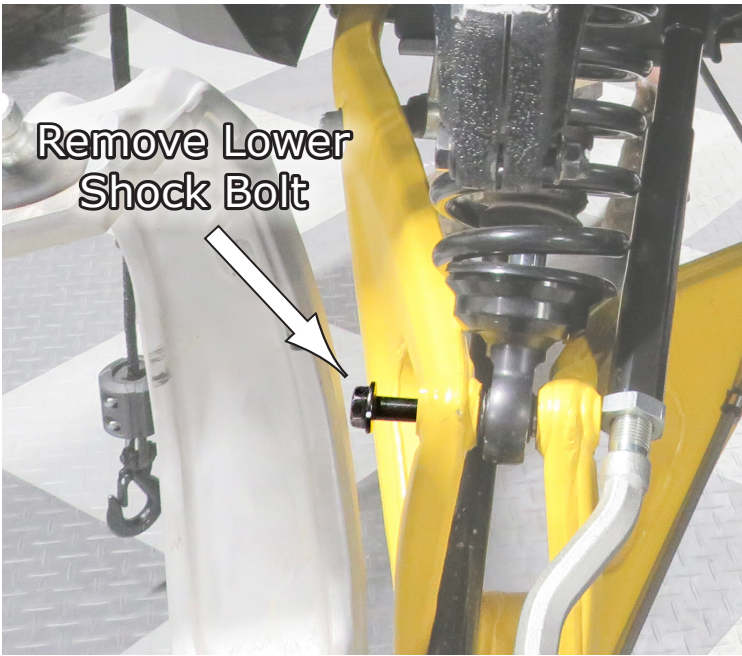


Fig.17a



Fig.17b

18.Now remove the upper shock bolt as shown in Fig.18a, remove the shock and set aside. Repeat for both shocks. Fig.18b-c shows removing the shock and shocks removed.

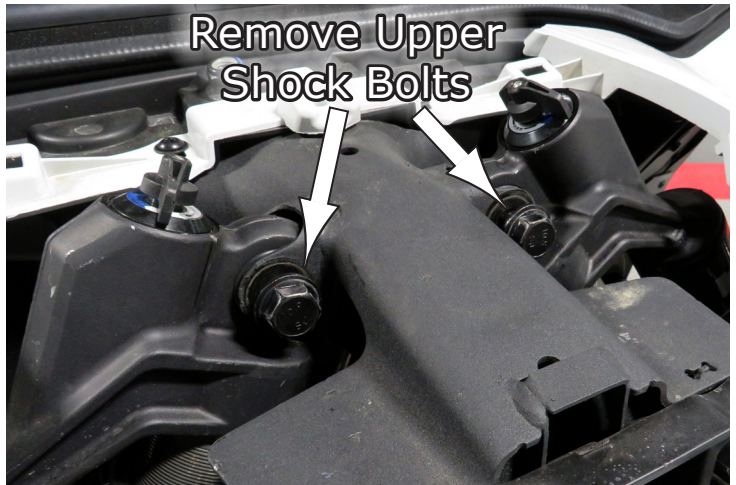


Fig.18a



Fig.18b

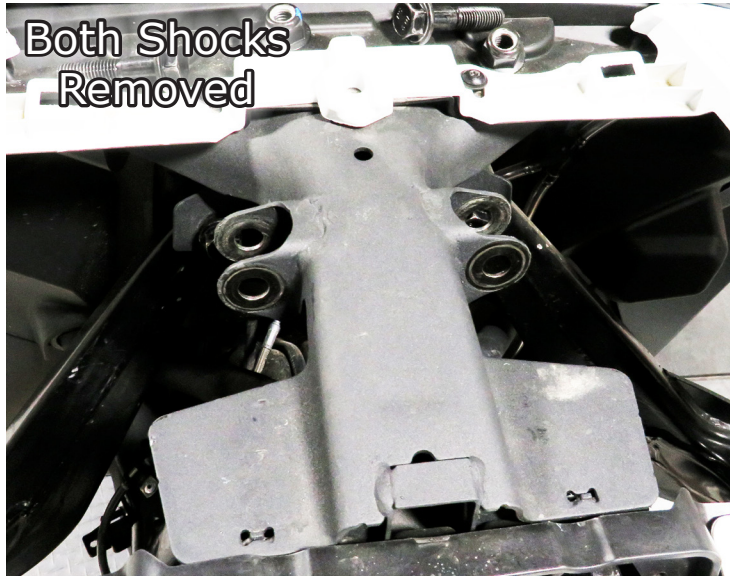


Fig.18c

19. Now you will be installing the **Upper Front & Rear Brackets**. In order to do that, you will need to remove the shocks. First remove both nuts as shown in **Fig.19a**, and remove the bolts as shown in **Fig.19b-d**.

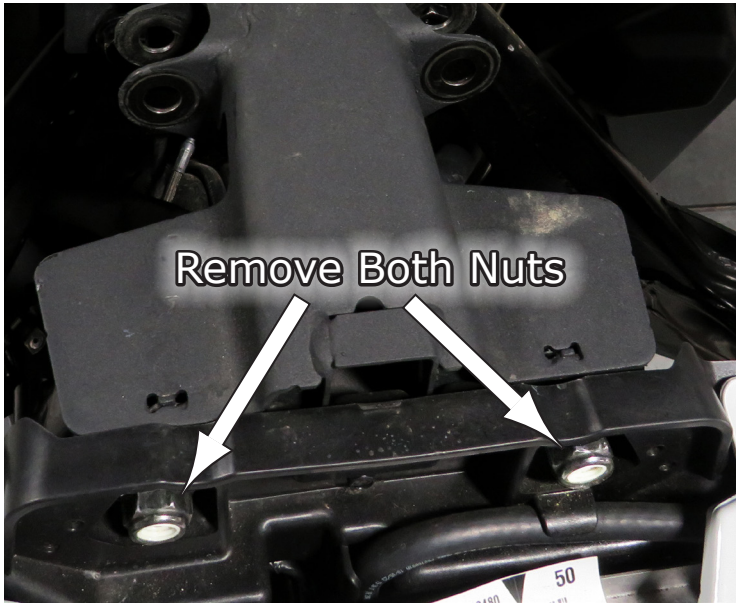


Fig.19a



Fig.19b

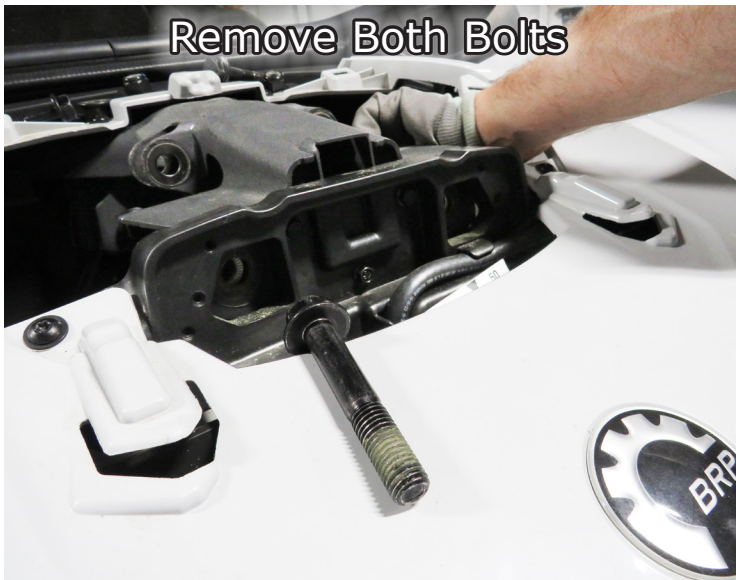


Fig.19c

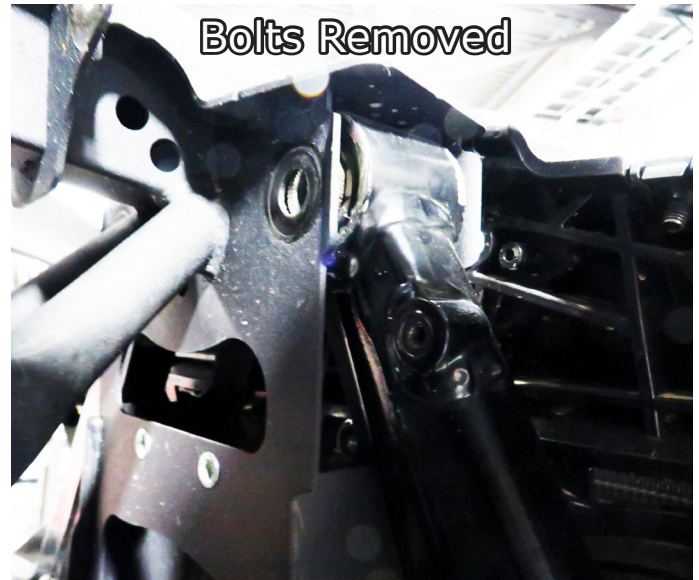


Fig.19d

20. Next you'll be installing the **Upper Front Bracket**. It looks like the one shown in **Fig.20**. You will install it in the following steps in the location where you just removed the bolts from.



Fig.20

21. After the upper bolts are out, you can now install the **Upper Front Bracket**. Install by sliding the bracket up into position so that the bolt holes in the bracket align with the holes for the upper bolts you previously removed. Repeat for opposite side, then tighten bolts securely. See **Fig.21a-d**.

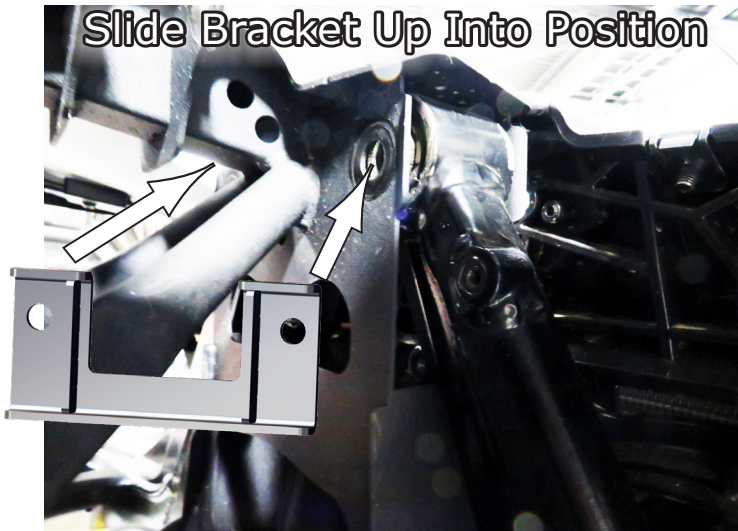


Fig.21a

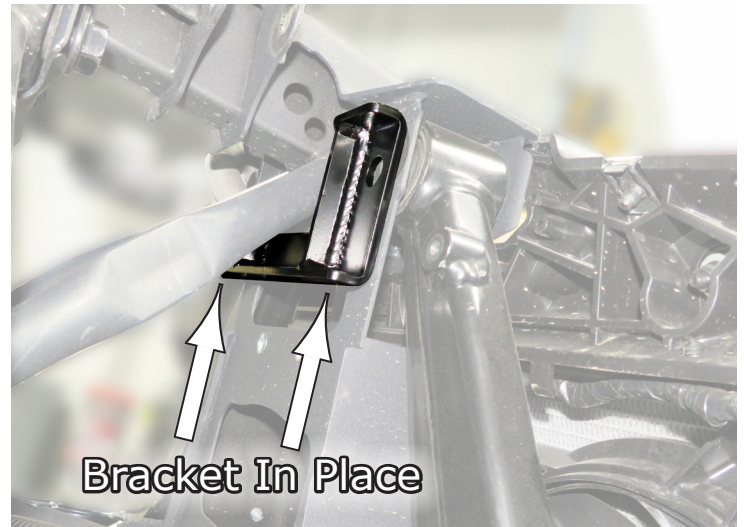


Fig.21b

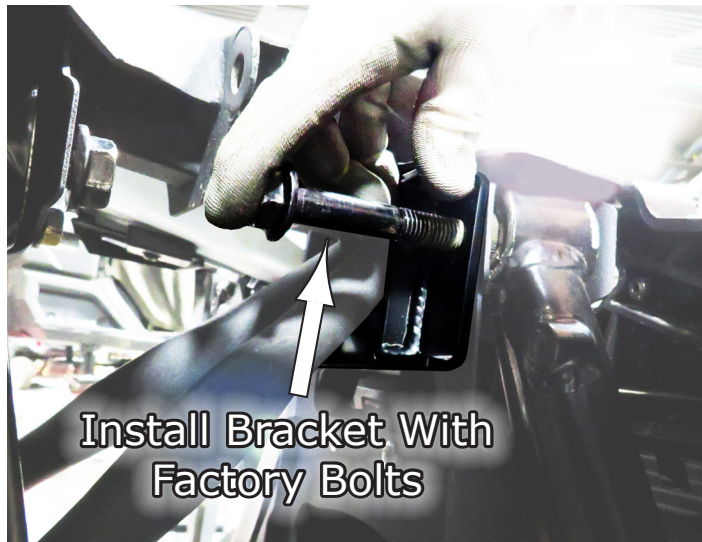


Fig.21c



Fig.21d



22. Now you are ready to install the **Upper Rear Bracket**. Remove the two (2) bolts located just behind the bracket you just put on as shown in **Fig.22**. Other bolt is on opposite side.

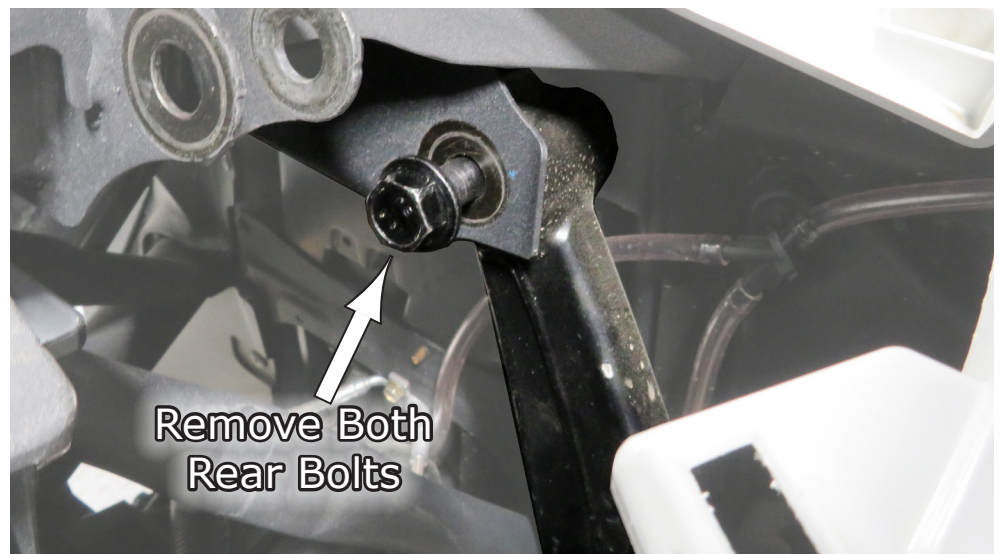


Fig.22

23. Fig.23a shows the **Upper Rear Bracket**. Place the Bracket in front of the frame as shown in Fig.23b, then install the factory bolt and nut you removed attaching the bracket in front as shown in Fig.c-d. Repeat for opposite side. When bot bolts are installed, tighten both securely.



Fig.23a

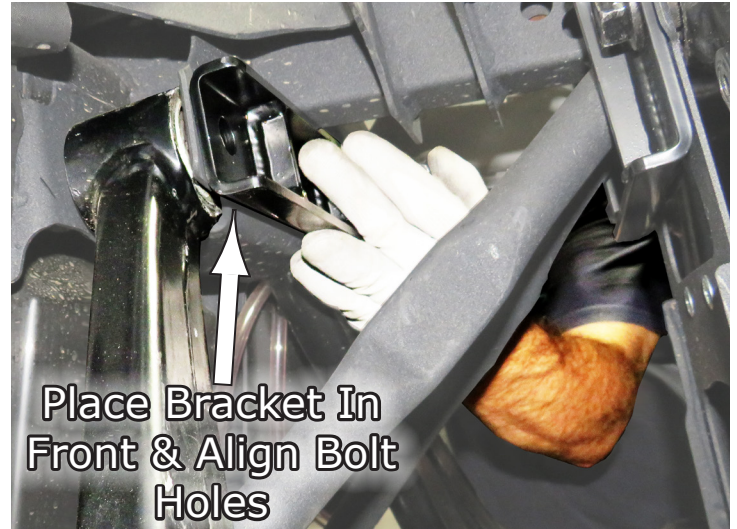


Fig.23b

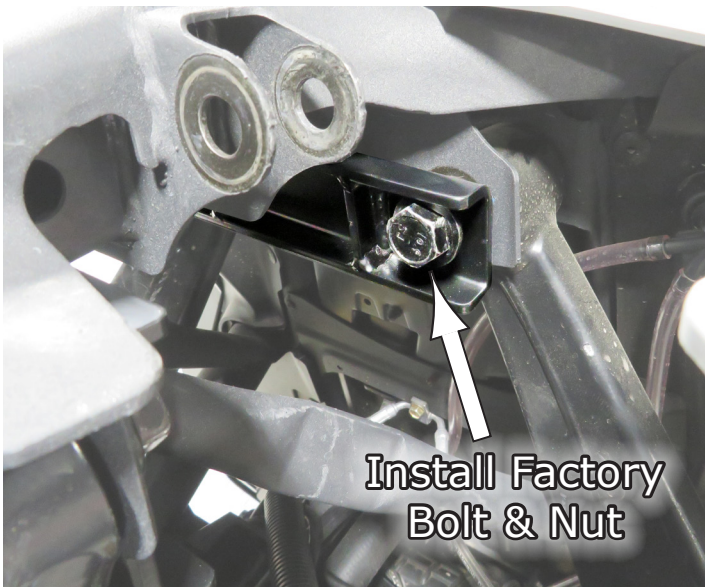


Fig.23c

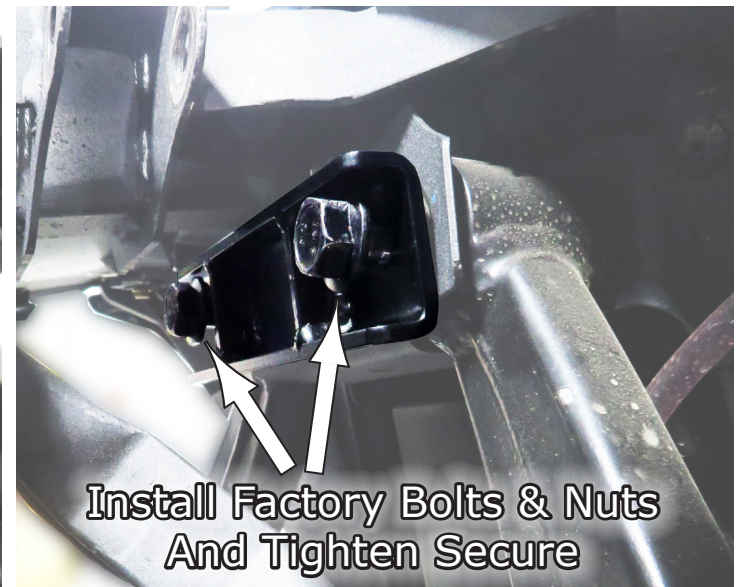


Fig.23d

24. Now go back and check that all bolts, nuts and screws installed are tightened down secure.

Then replace your shocks, skid plates and all other components you removed for this installation, back to the original state of your vehicle.



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