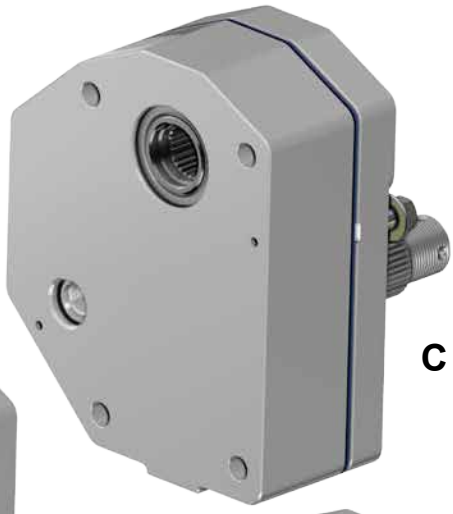
2753 Michigan Road • Madison, Indiana 47250 • 855-743-3427

INSTALLATION INSTRUCTIONS
Gen 3 Portal Gear Hubs
Can-Am Maverick

Item	Description
A	Rotor x 4
B	Left Gear Box x 2
C	Right Gear Box x 2
D	Gasket x 4
E	Cap x 4
F	Front Recessed Nut x 2
R	Rear Recessed Nut x 2

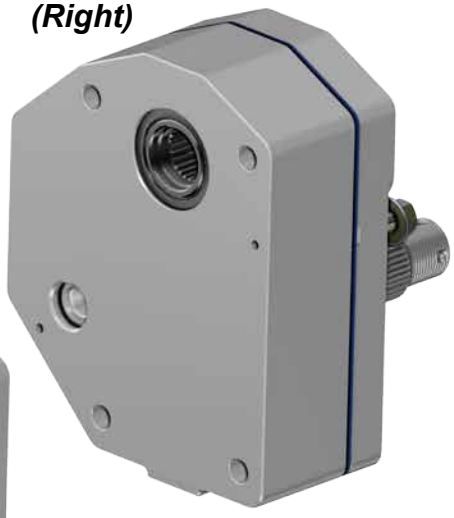
Front Boxes: PGH07-GB301
Rear Boxes: PGH07-GB302


A


(Right)
C


B


(Left)




F


R


E


D

(Kit Contents continue on following pages)

WHEN FILLING GEAR BOX USE ONLY 80W-90 GEAR OIL. USING GREASE WILL CAUSE FAILURE OF GEARS AND BEARINGS. USING GREASE WILL VOID THE WARRANTY.

Need help with your installation?

sales@superatv.com
www.superatv.com
1-855-743-3427
8:00am - 9:00pm EST M-Th
8:00am - 7:00pm EST Friday
9:00am - 2:00pm EST Saturday

Read instructions and view illustrations before beginning.

Thank You For Choosing

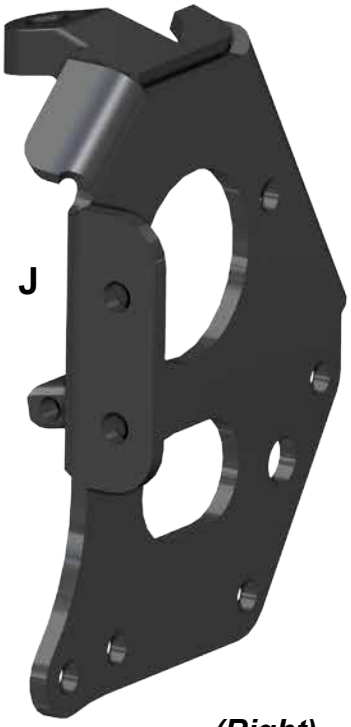
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Rev IN-PGH-7-32-303 3/18/2019

(Kit Contents continued)







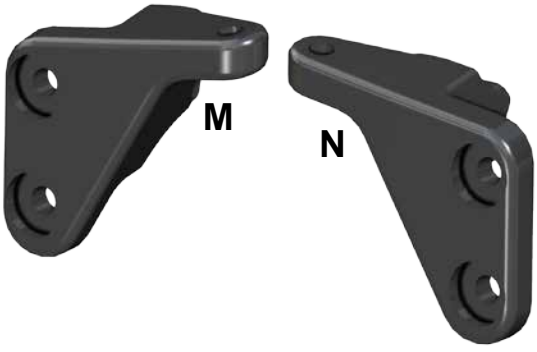
(Left)



(Right)

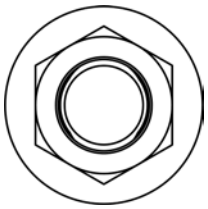


Item	Description
G	Caliper Mounting Bracket x 4
H	Left Spindle
J	Right Spindle
K	Left Bearing Carrier
L	Right Bearing Carrier
M	Left Steering Arm
N	Right Steering Arm
P	Left Caliper Mounting Bracket
Q	Right Caliper Mounting Bracket

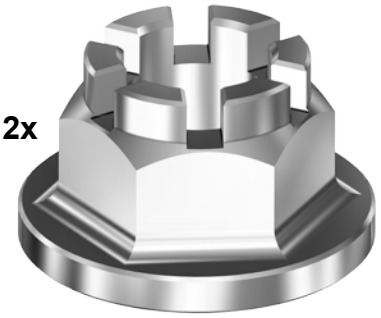




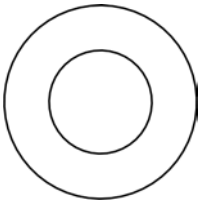
Front Hardware Kit

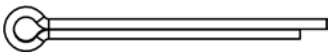
12x  M12 Nylock Nut

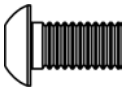
Threadlock, 2mL

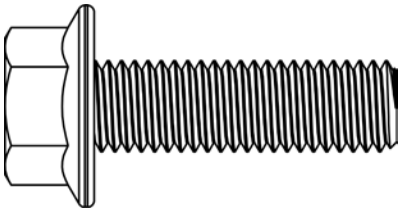
2x 

Castle Nut

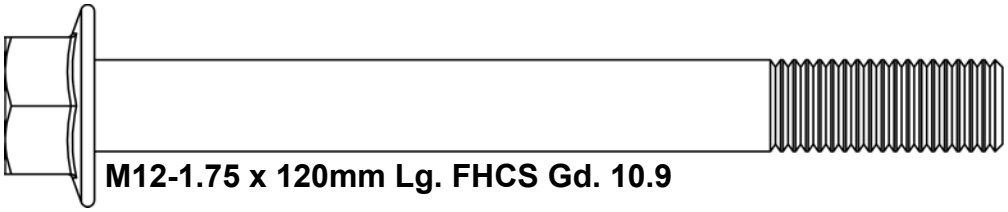
2x  M12 Narrow Washer

2x  Cotter Pin

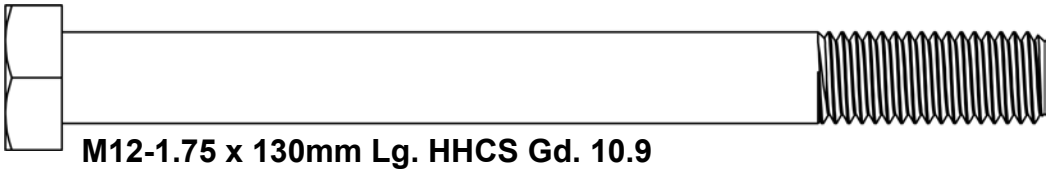
6x  M6-1.0 x 12mm Lg. BHCS

4x  M12-1.50 x 40mm Lg. FHCS

4x  Drain Plug

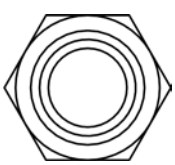
6x 

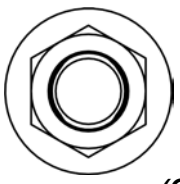
M12-1.75 x 120mm Lg. FHCS Gd. 10.9

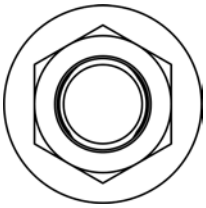
2x 

M12-1.75 x 130mm Lg. HHCS Gd. 10.9

Machines with SuperATV Heavy Duty Tie Rod Ends must use provided hardware shown when securing to Steering Arms.

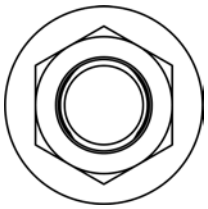
 M12 Nylock Nut

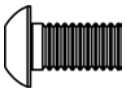
 M10 Nylock Nut

 M12 Nylock Nut

(Qty. 2 each)

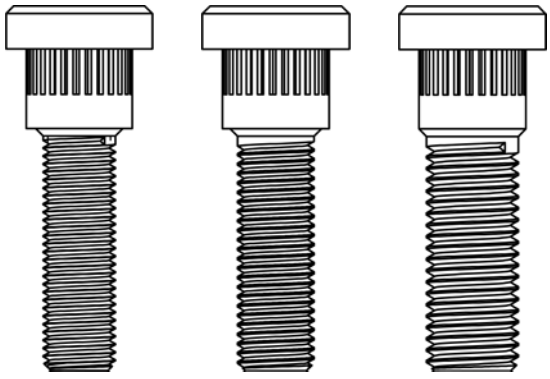
Rear Hardware Kit

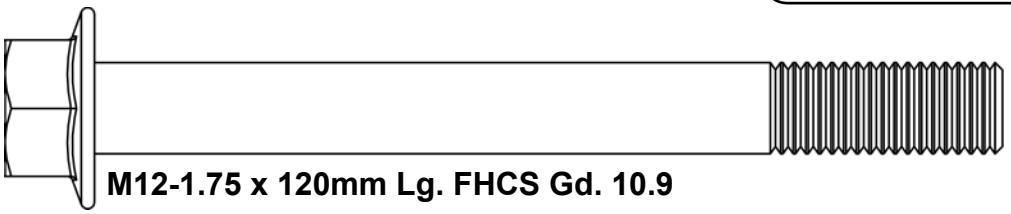
8x  M12 Nylock Nut

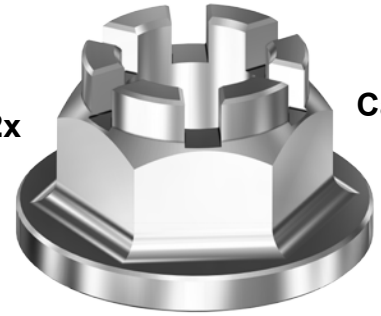
6x  M6-1.0 x 12mm Lg. BHCS

2x  Cotter Pin

Wheel Stud Kit (16 each)

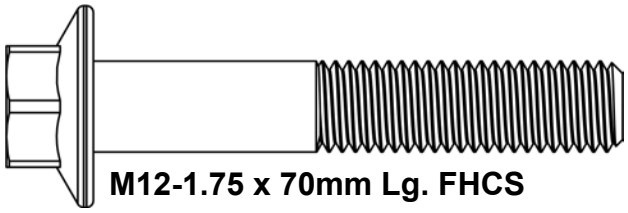


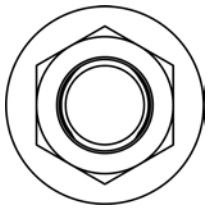
8x 
M12-1.75 x 120mm Lg. FHCS Gd. 10.9

2x  Castle Nut

4x  Drain Plug

Accessory Hardware Kit

6x 
M12-1.75 x 70mm Lg. FHCS

6x  M12 Nylock Nut

T-Fitting 

Rear Brake Lines

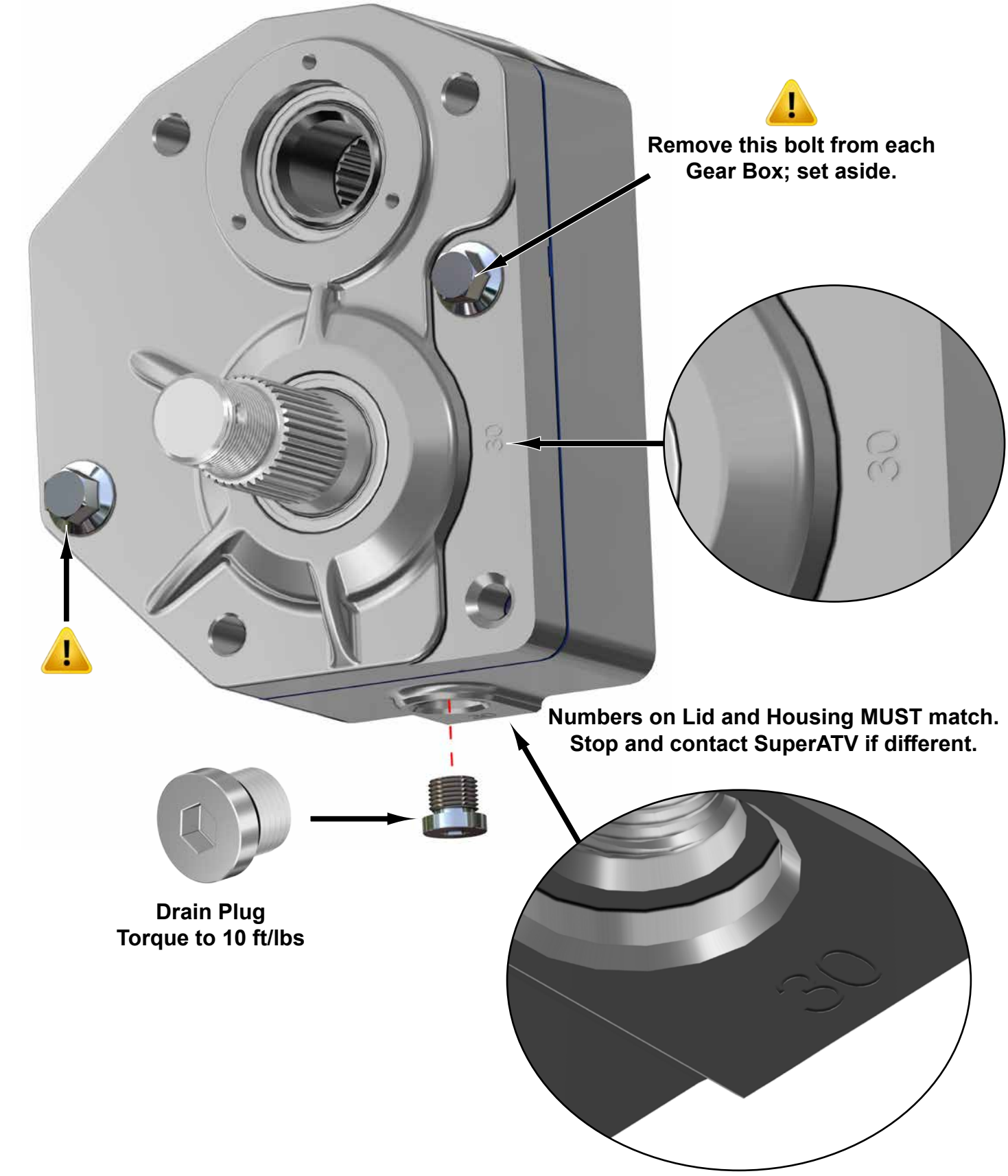
Location	Length (Approx)
To Calipers	50”
T-Fitting to Master Cylinder	103”

Read ALL instructions prior to operating Portal Gear Hubs. Injury to personnel, portal gear hub, and/or machine failure may be caused by improper installation, maintenance or operation.
• It is dangerous to get under a jacked-up vehicle. The vehicle could slip off the jack and fall on you. You could be crushed. Never place any part of your body under a vehicle that is on a jack. Never start or run the engine while the vehicle is on a jack. If you need to get under a raised vehicle, take it to a service center where it can be raised on a lift.
• Hot oil can cause severe burns. Use extreme care when removing lubrication plugs and when working close to a unit that has been in operation.
• Check lube level between scheduled lube changes to insure that proper lube level is maintained. Inspect the tightness of mounting bolts, excessive heating, or any unusual noise or vibration.
• Serious personal injury may occur as a result of improperly performed maintenance, adjustments or repairs.
• Always be extremely careful when working on the portal gear hub. Always follow commonly accepted safety practices and general common sense. Never risk personal injury.
• Do not operate the portal gear hub without proper lube and correct amount.

For safe operation and to maintain the unit warranty, when changing a provided fastener for any reason, it becomes the responsibility of the person making the change to properly account for fastener grade, thread engagement, load, tightening torque and the means of torque retention.
• Mounting bolts should be periodically checked to ensure that the unit is firmly anchored for proper operation.
• These instructions are not intended to cover all details or variations in equipment, nor provide for every possible contingency to be met in connection with selection, installation, operation, and maintenance.
Should further information be desired or should particular problems arise which are not covered sufficiently for the Buyer's purpose, the matter should be referred to SuperATV®.

In the event of the resale of any of the goods, in whatever form, Resellers/Buyers will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such sale:
The manufacturer makes no warranties or representations, express or implied, by operation of law or otherwise, as to the merchantability or fitness for a particular purpose of the goods sold hereunder. Buyer acknowledges that it alone has determined that the goods purchased hereunder will suitably meet the requirements of their intended use. In no event will the manufacturer be liable for consequential, incidental or other damages. Even if the repair or replacement remedy shall be deemed to have failed of its essential purpose under Section 2-719 of the Uniform Commercial Code, the manufacturer shall have no liability to Buyer for consequential damages.
Resellers/Buyers agree to also include this entire document including the danger, warnings and cautions above in a conspicuous place and in a conspicuous manner in writing to instruct users on the safe usage of the product.

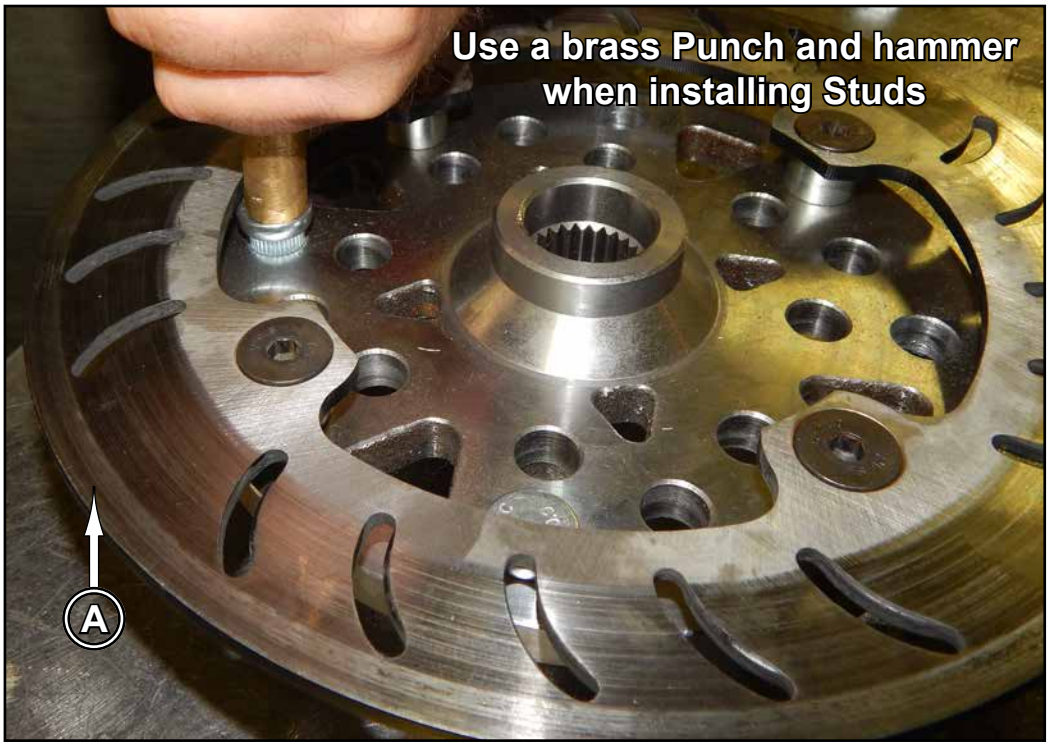
When installing or removing hardware shown DO NOT USE IMPACT WRENCH.
Torque to 60 ft/lbs MAX



DO NOT USE IMPACT WRENCH WHEN INSTALLING ANY HARDWARE INTO HOUSING

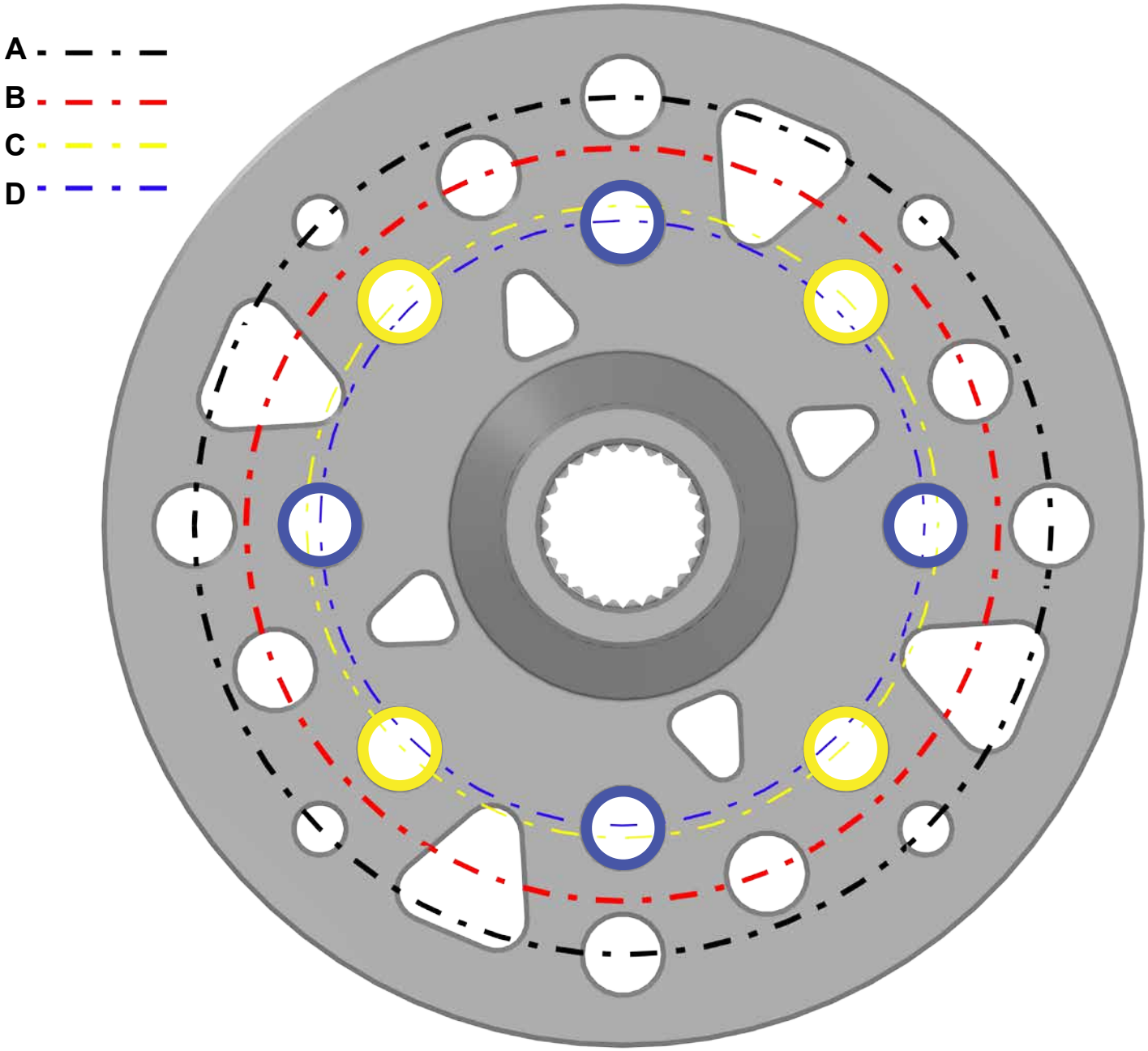
Install provided Studs into Rotors (A):
- See “Wheel Hub Bolt Patterns”.
- Note machines bolt pattern and lug size.
- Set Rotors (A) aside when complete.





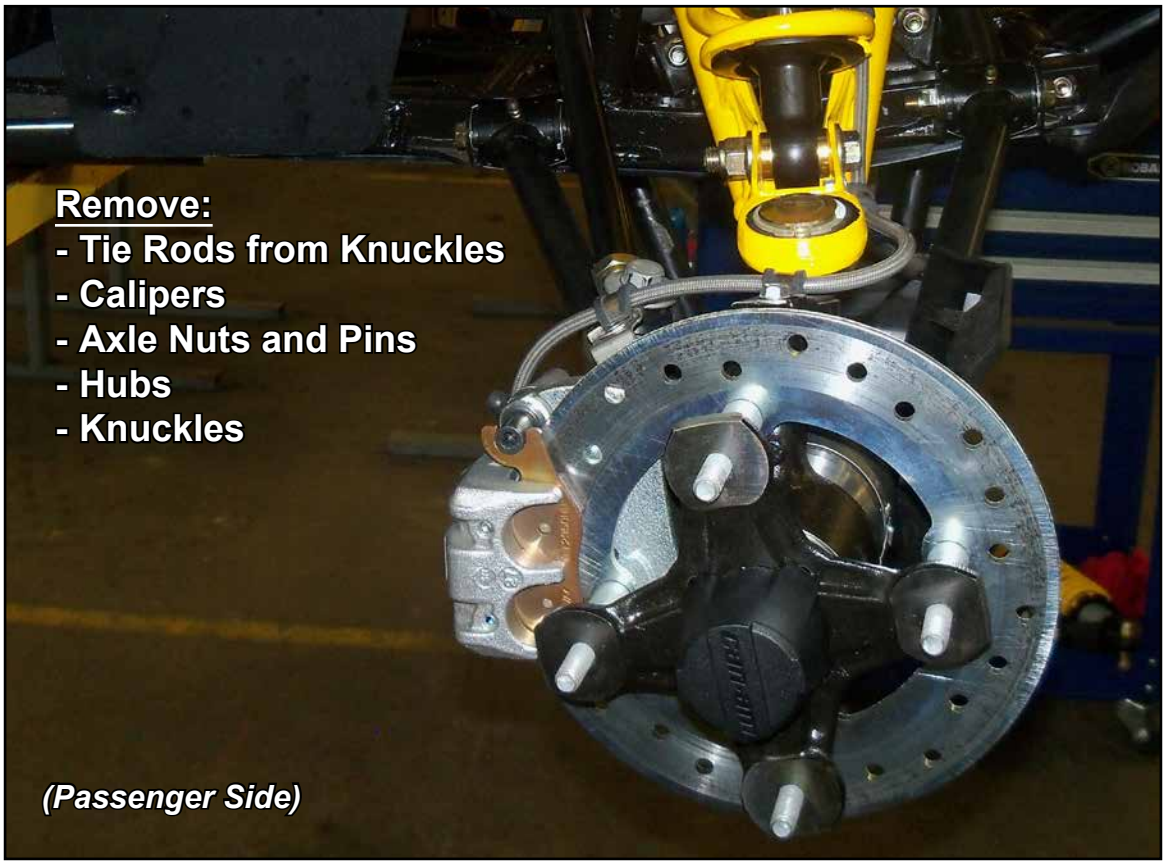


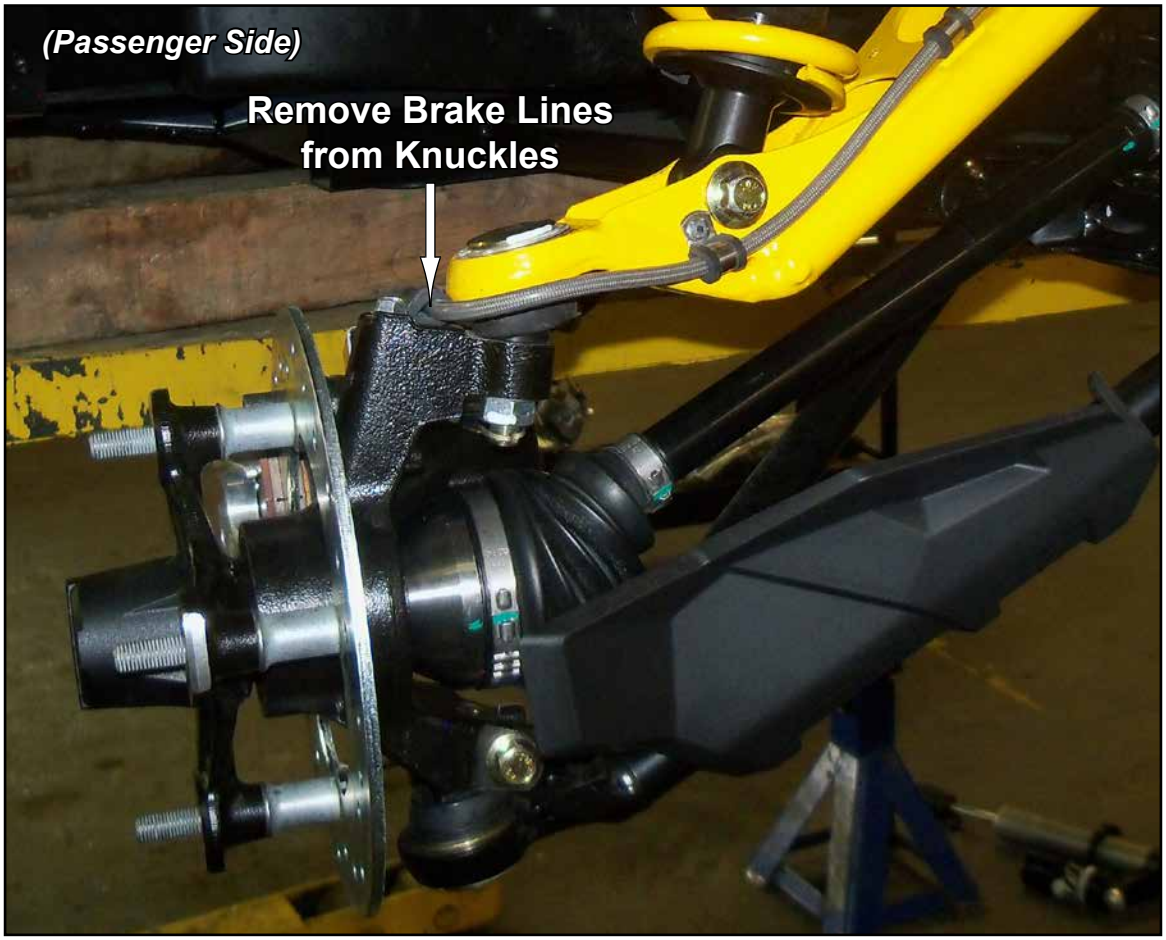
Wheel Hub Bolt Patterns



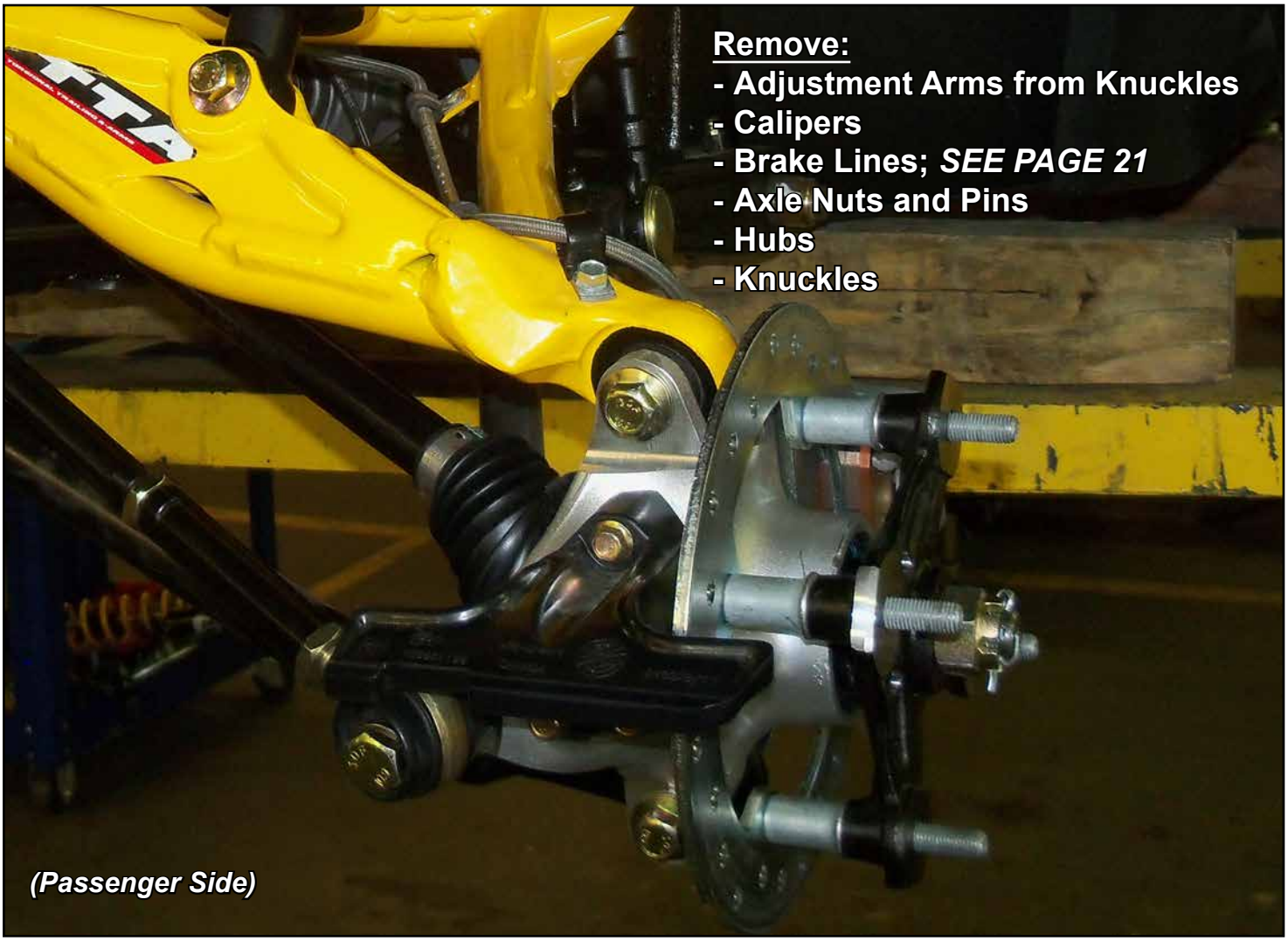
Pattern	Machine	Diameter
A	Polaris	156mm
B	Can-Am/Teryx4	137mm
C	Arctic Cat	115mm
D	Honda/Yamaha	110mm

Front Components Removal: *Keep all components removed from machine.*



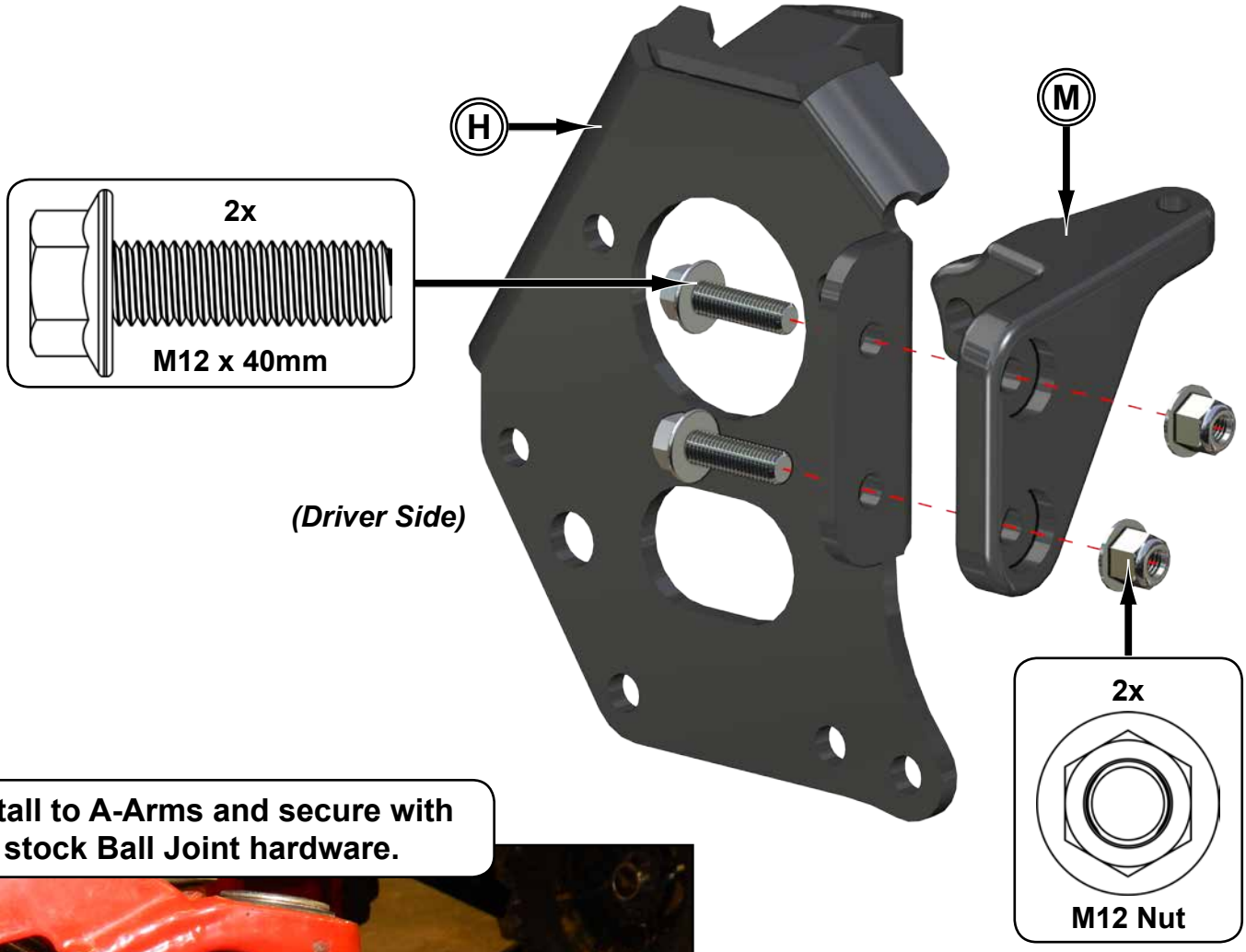


Rear Components Removal: *Keep all components removed from machine.*

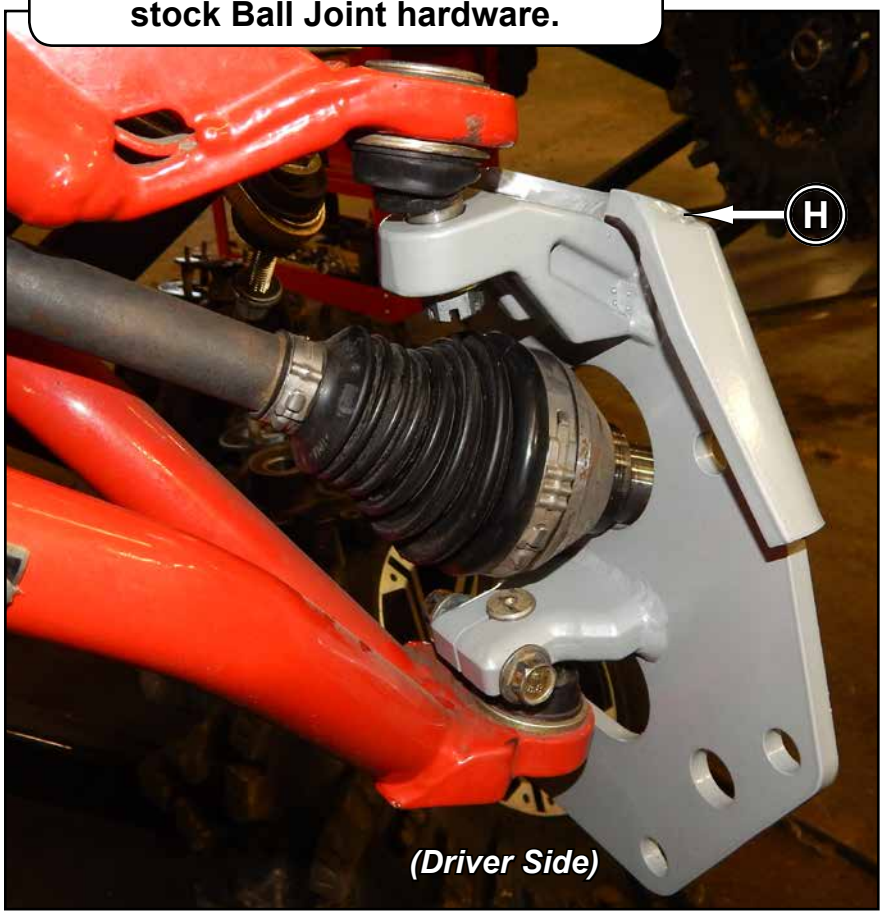


Front: *do not tighten hardware completely unless noted.*

- Secure Left Steering Arm (M) to Left Spindle (H) with hardware shown.

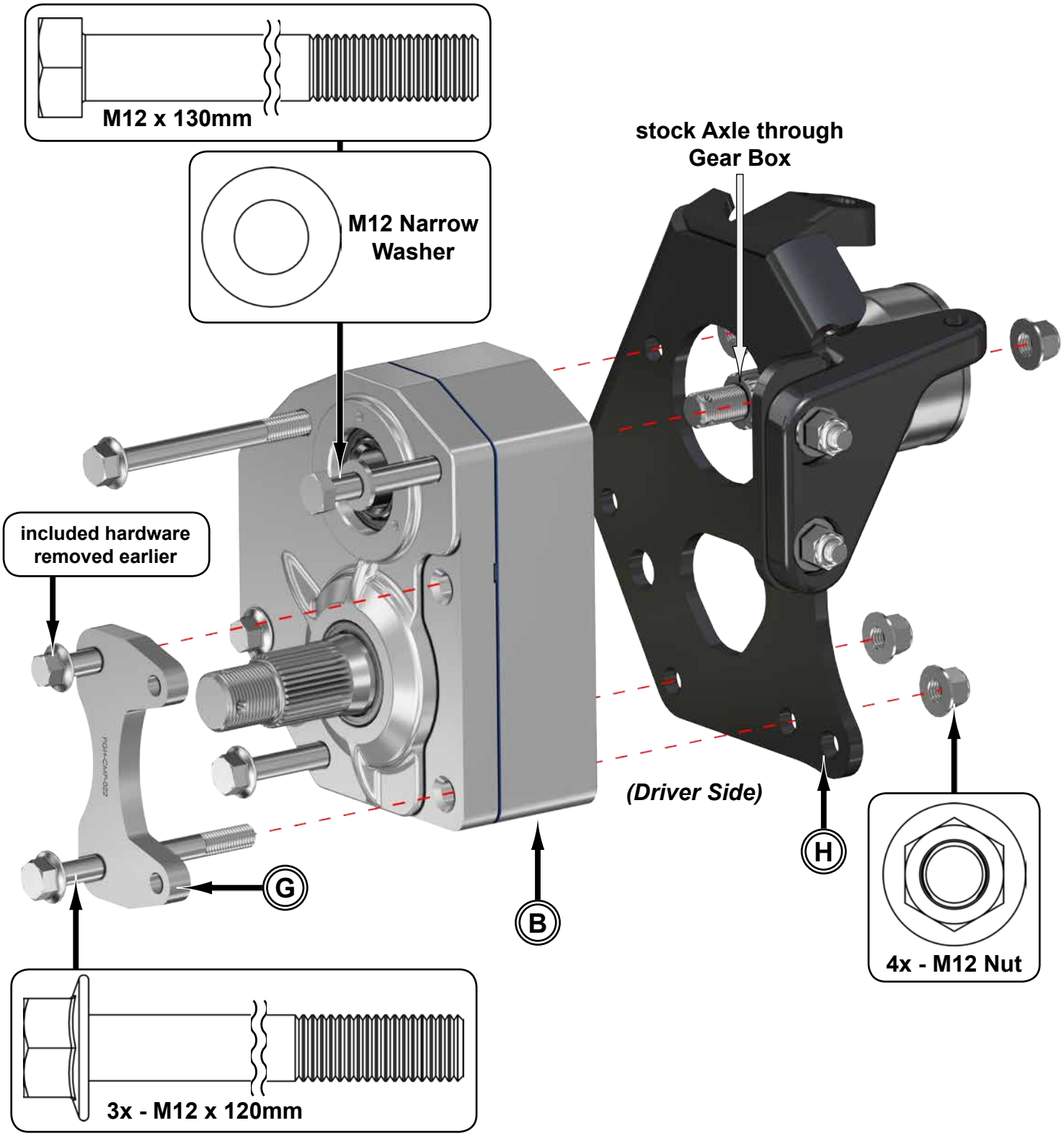


Install to A-Arms and secure with stock Ball Joint hardware.



Front continued:

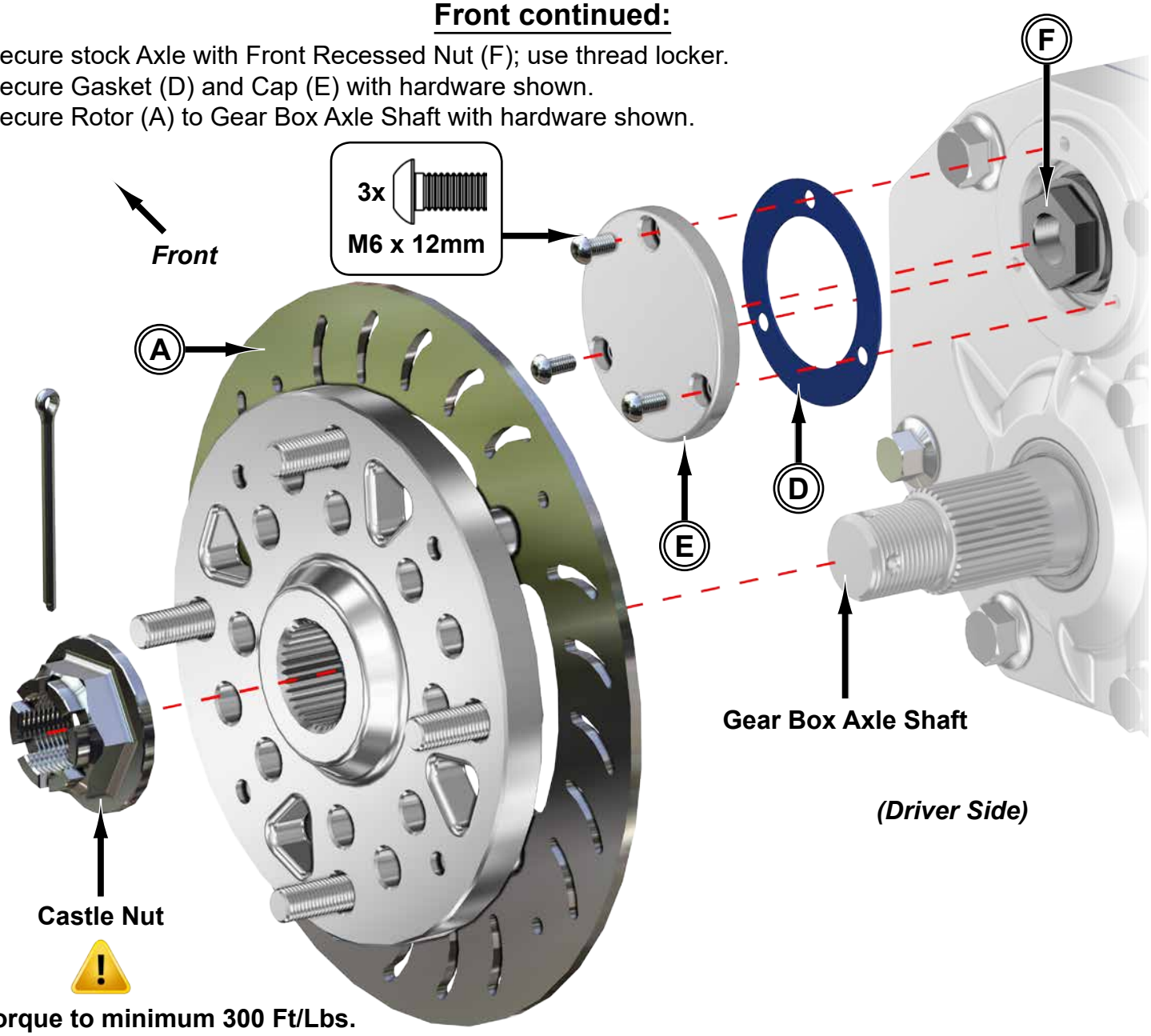
- Secure Left Gear Box (B) and Caliper Mounting Bracket (G) to Left Spindle (H) with hardware shown.



Tighten all hardware completely.

Front continued:

- Secure stock Axle with Front Recessed Nut (F); use thread locker.
- Secure Gasket (D) and Cap (E) with hardware shown.
- Secure Rotor (A) to Gear Box Axle Shaft with hardware shown.



- **Torque to minimum 300 Ft/Lbs.**
- **Continue tightening until Cotter Pin can be installed.**

Tighten hardware completely and repeat steps for opposite side.

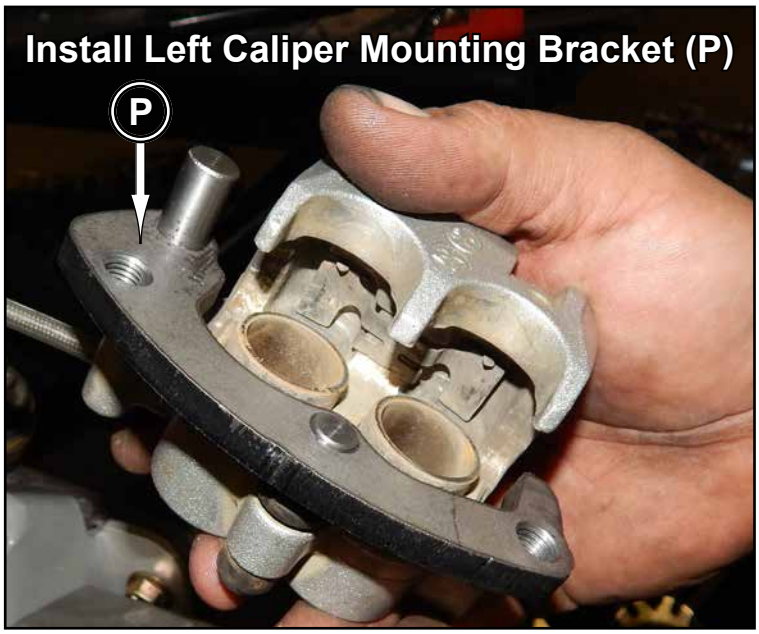
Brake Caliper installation: *driver side shown*

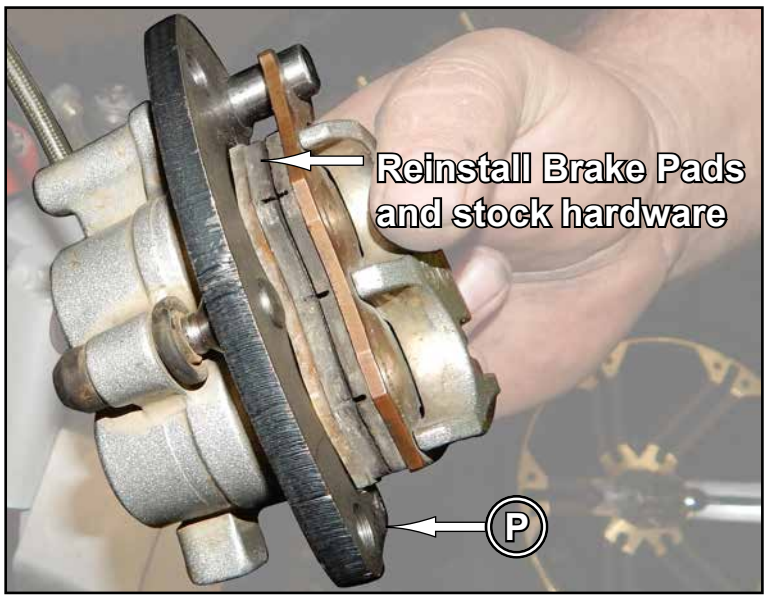


Remove Brake Pads and stock Mounting Bracket





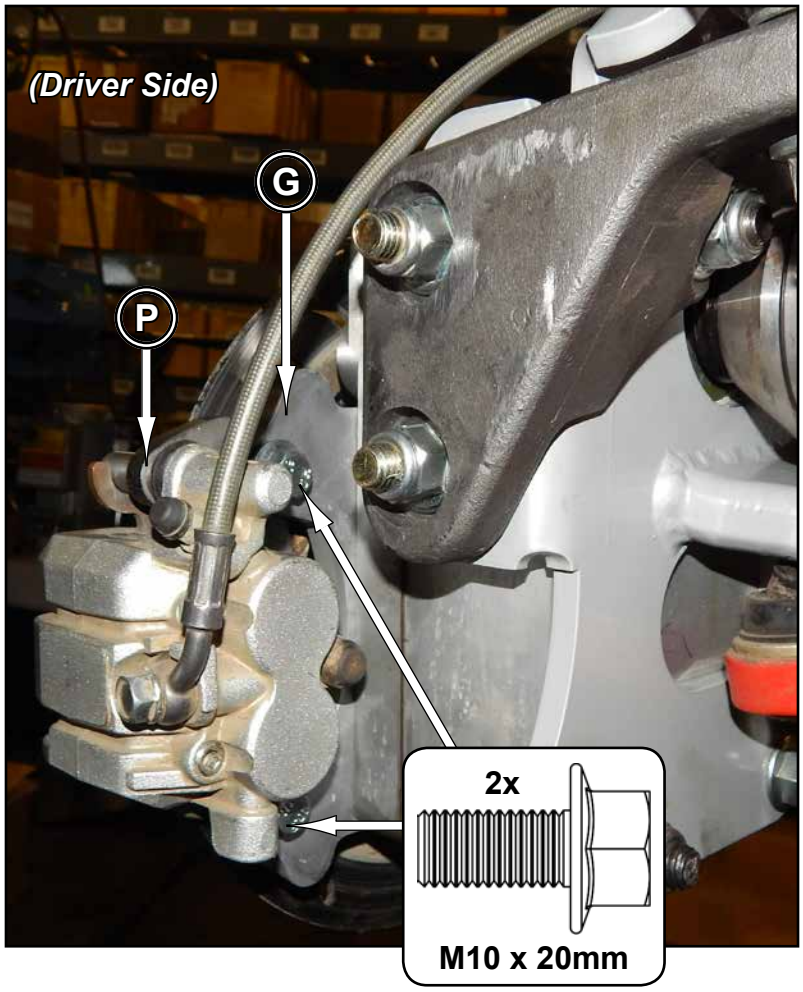




Repeat steps for opposite Brake Caliper.

Brake Caliper continued:

- Using previously removed hardware, secure Left Caliper Mounting Bracket (P) to Caliper Mounting Bracket (G).





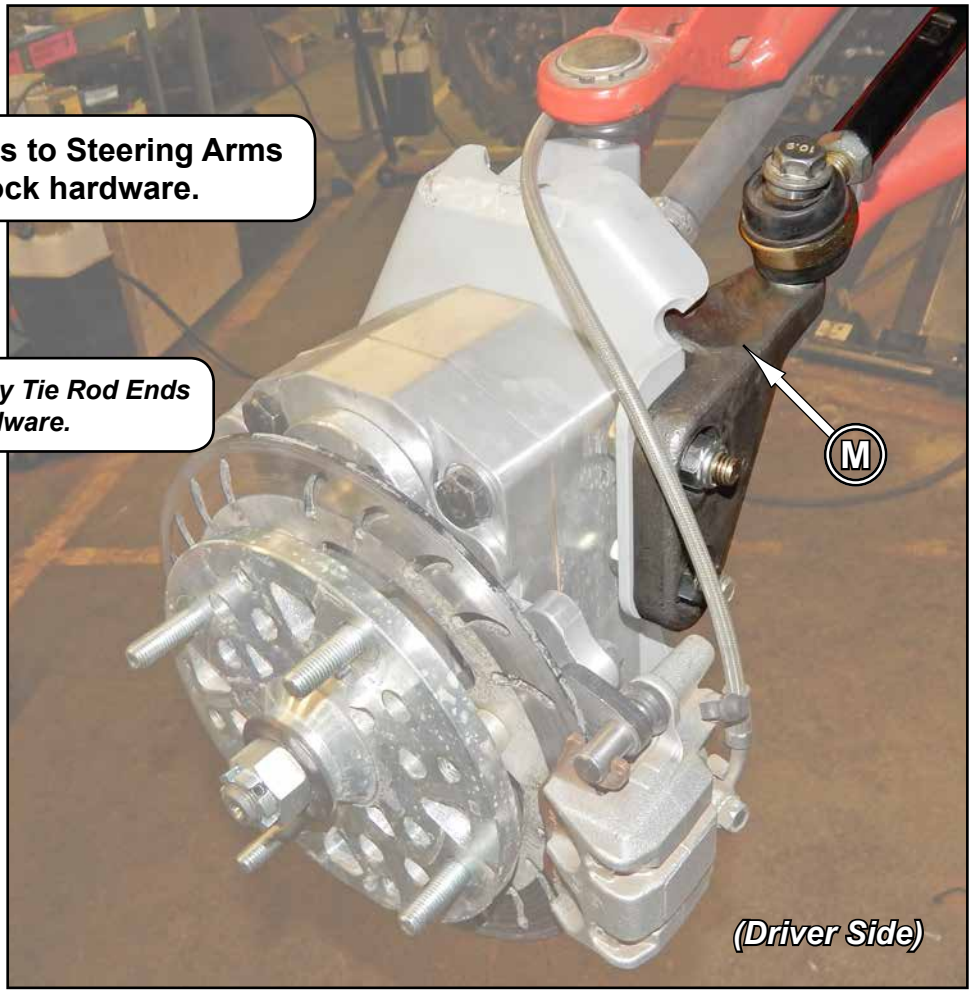
Tighten hardware completely and repeat steps for opposite Brake Caliper.

Front continued:

Secure Tie Rod Ends to Steering Arms (M)(N) with stock hardware.

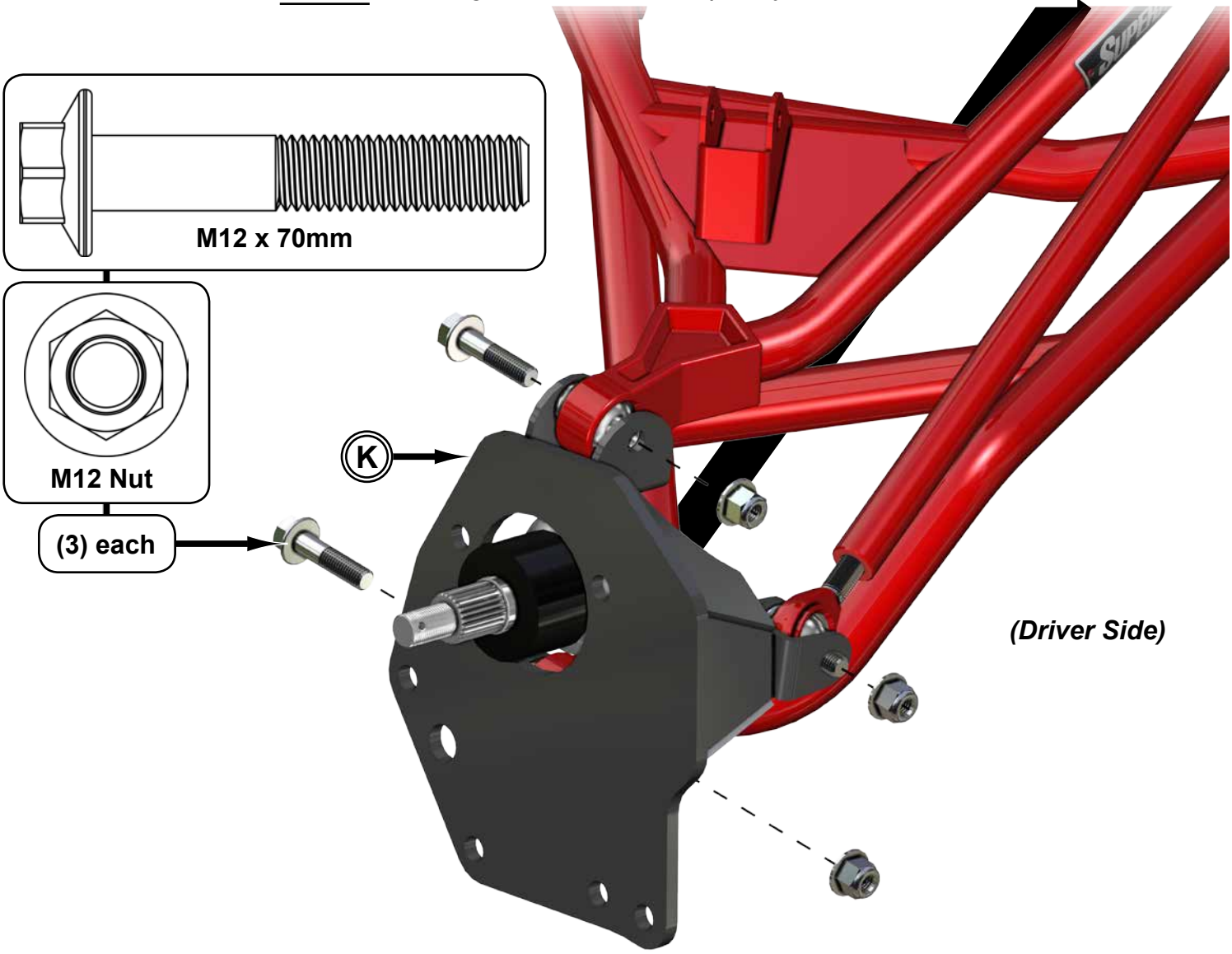


If machine has SuperATV Heavy Duty Tie Rod Ends see page 3 for correct hardware.



Tighten all hardware completely.

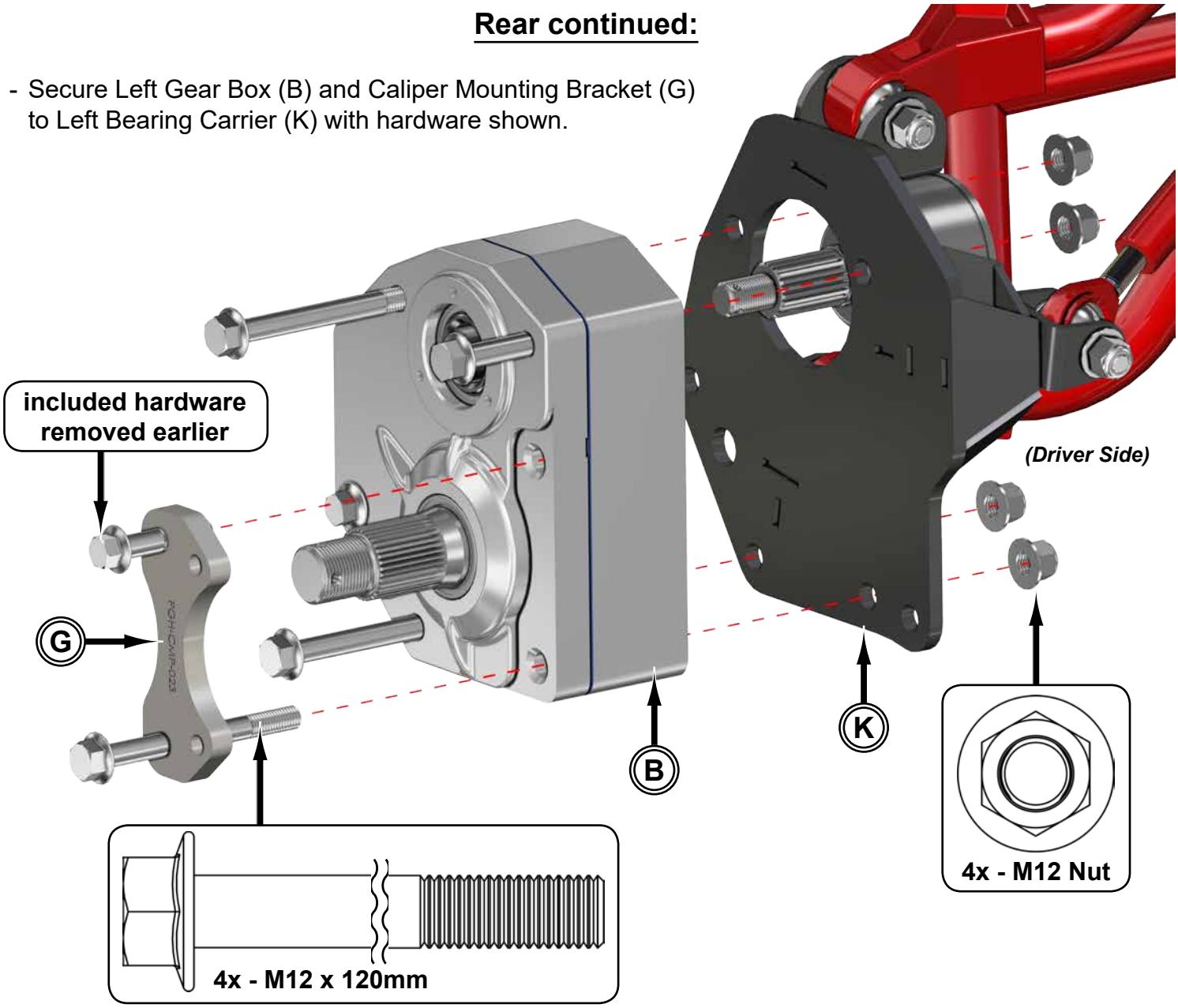
Rear: *do not tighten hardware completely unless noted.*



- Secure Left Bearing Carrier (K) to stock A-Arms and Coupling Bars with hardware shown.

Rear continued:

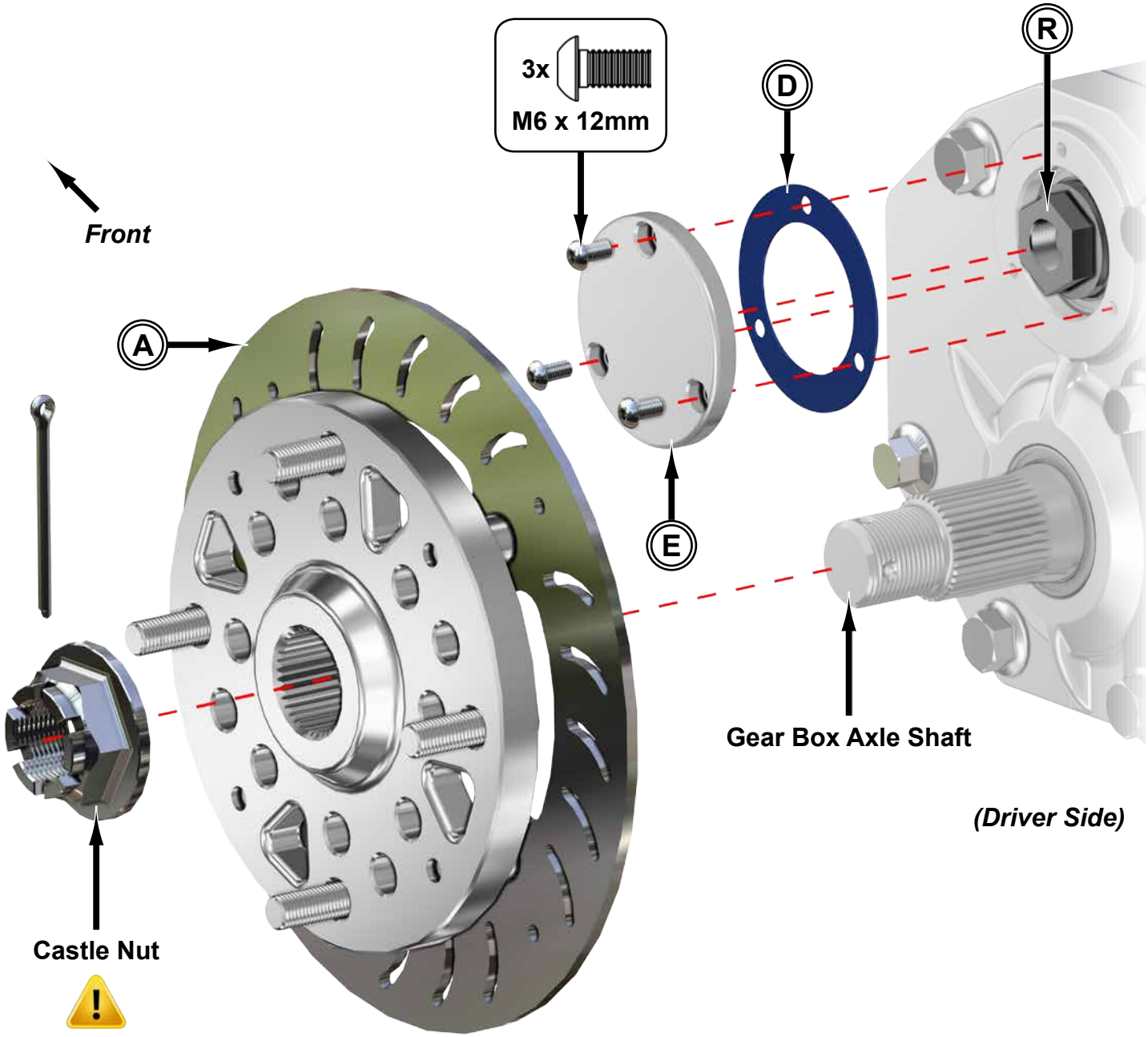
- Secure Left Gear Box (B) and Caliper Mounting Bracket (G) to Left Bearing Carrier (K) with hardware shown.



Tighten hardware completely.

Rear continued:

- Secure stock Axle with Rear Recessed Nut (R); use thread locker.
- Secure Gasket (D) and Cap (E) to Left Gear Box (B) with hardware shown.
- Secure Rotor (A) to Gear Box Axle Shaft with hardware shown.



- **Torque to minimum 300 Ft/Lbs.**
- **Continue tightening until Cotter Pin can be installed.**

Tighten all hardware completely and repeat steps for opposite side.

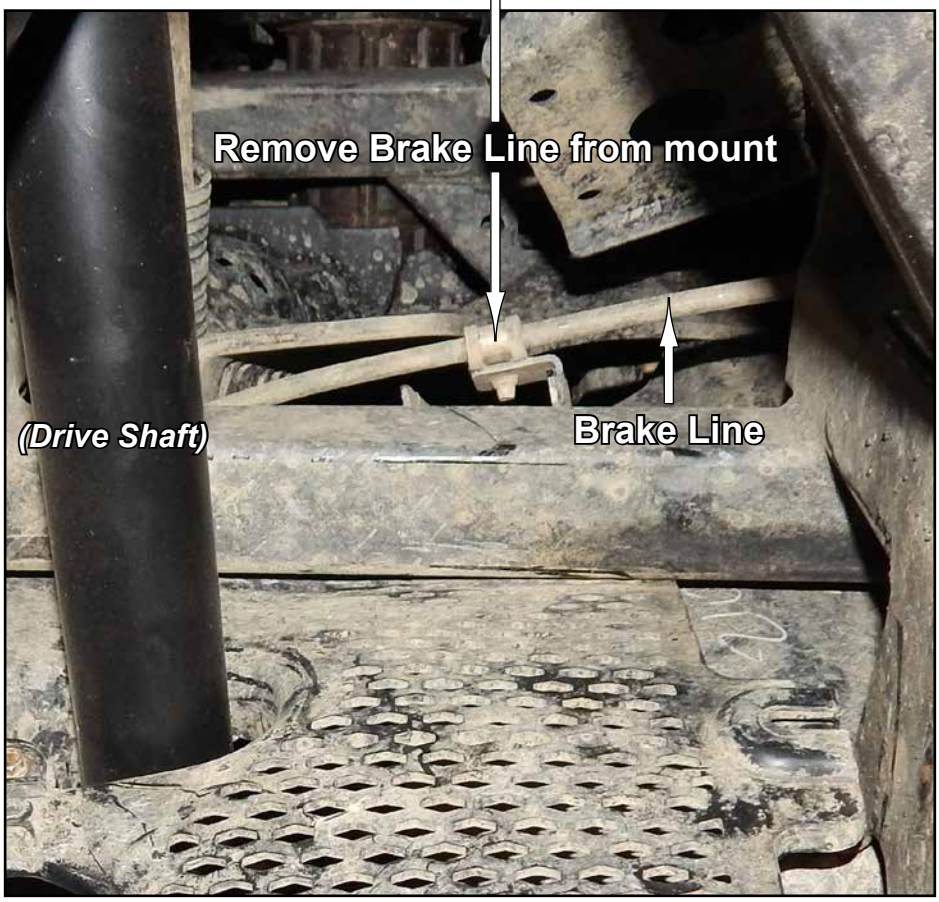
Rear Brake Line Removal:

- Rear Brake Line must be removed from machine.
- Brake Lines are secured with a combination of rivets or studs/nuts. See illustrations on following pages for removal.



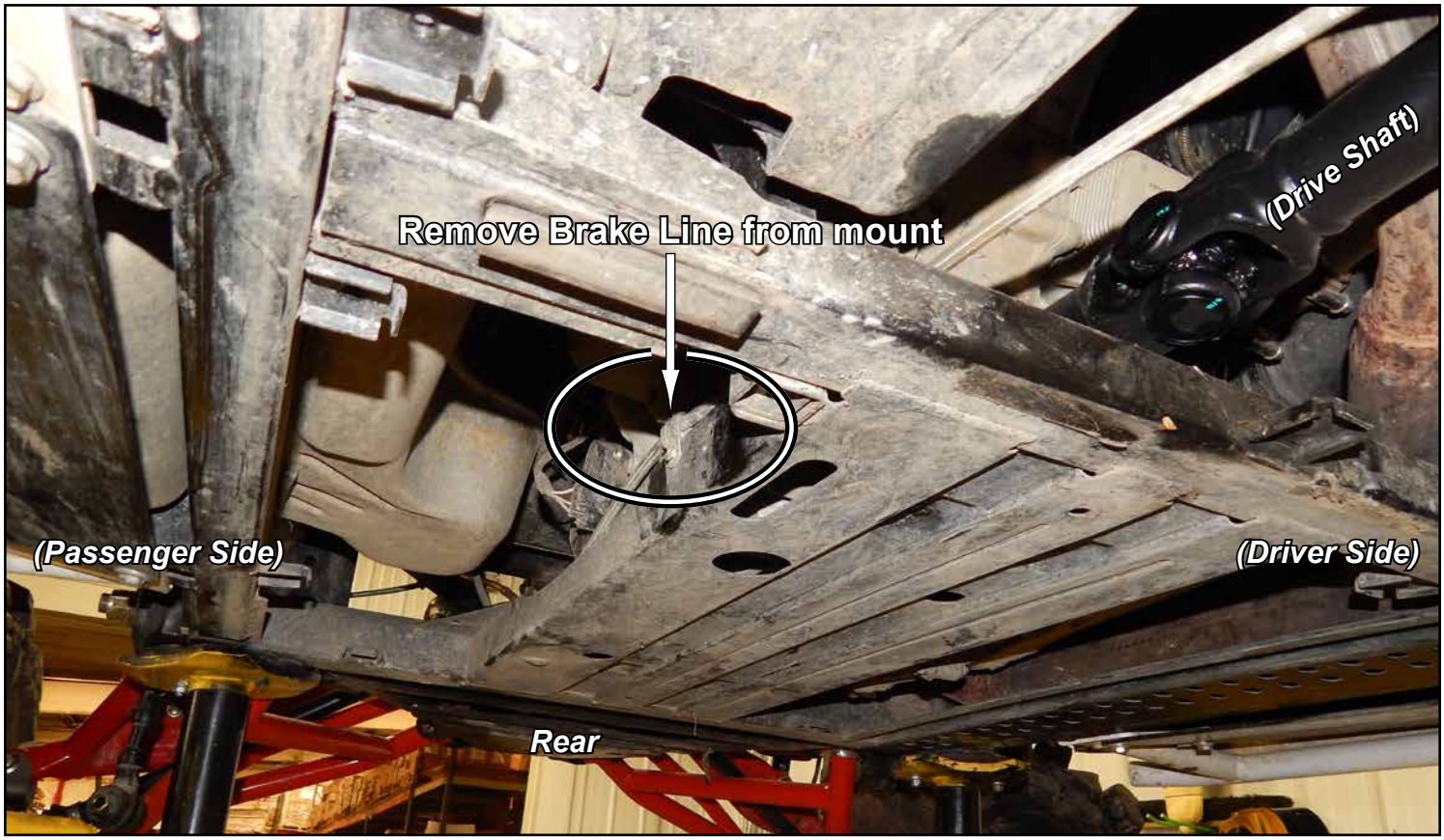
Rear Brake Line Removal continued:



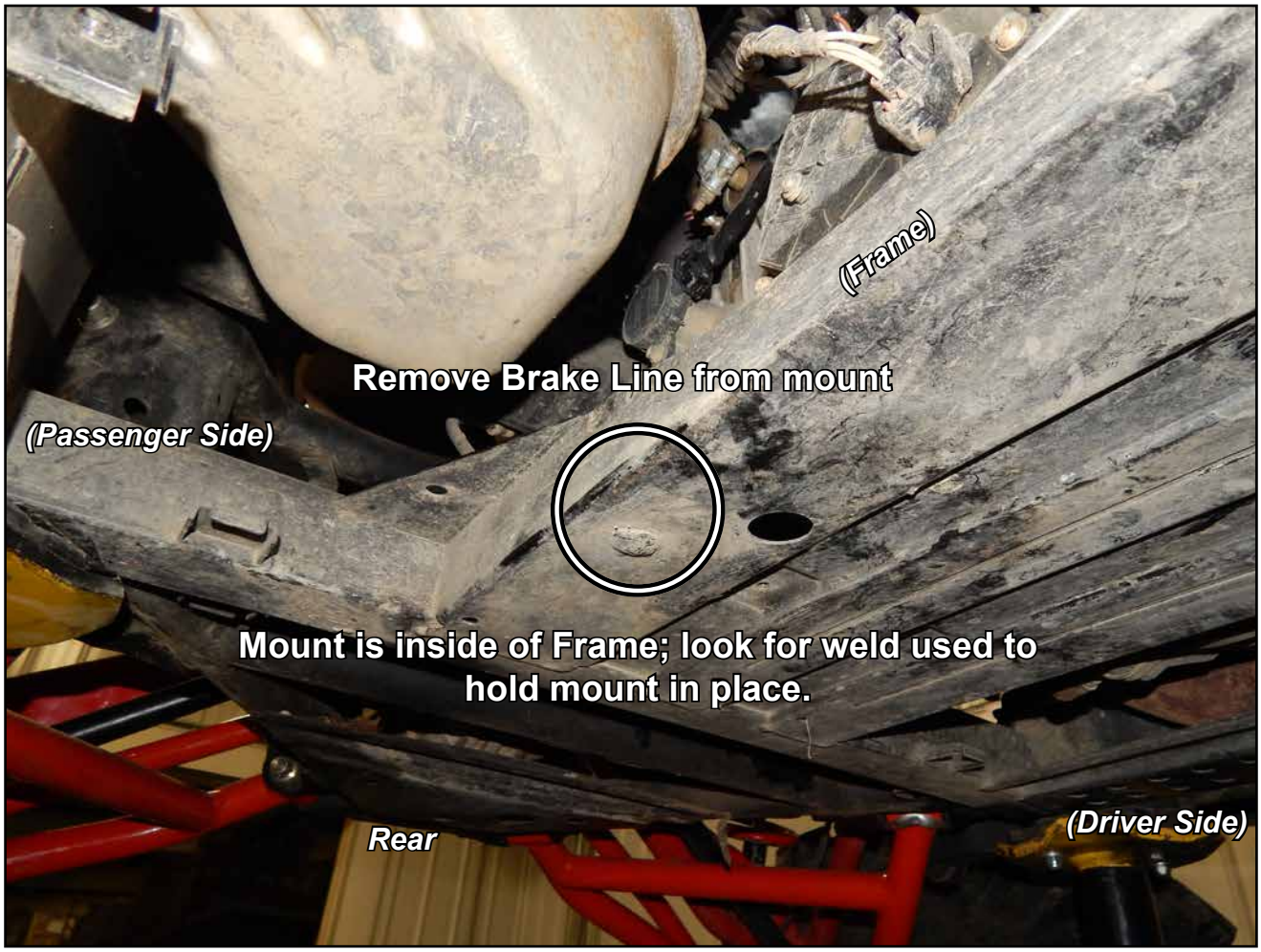


Rear Brake Line Removal continued:



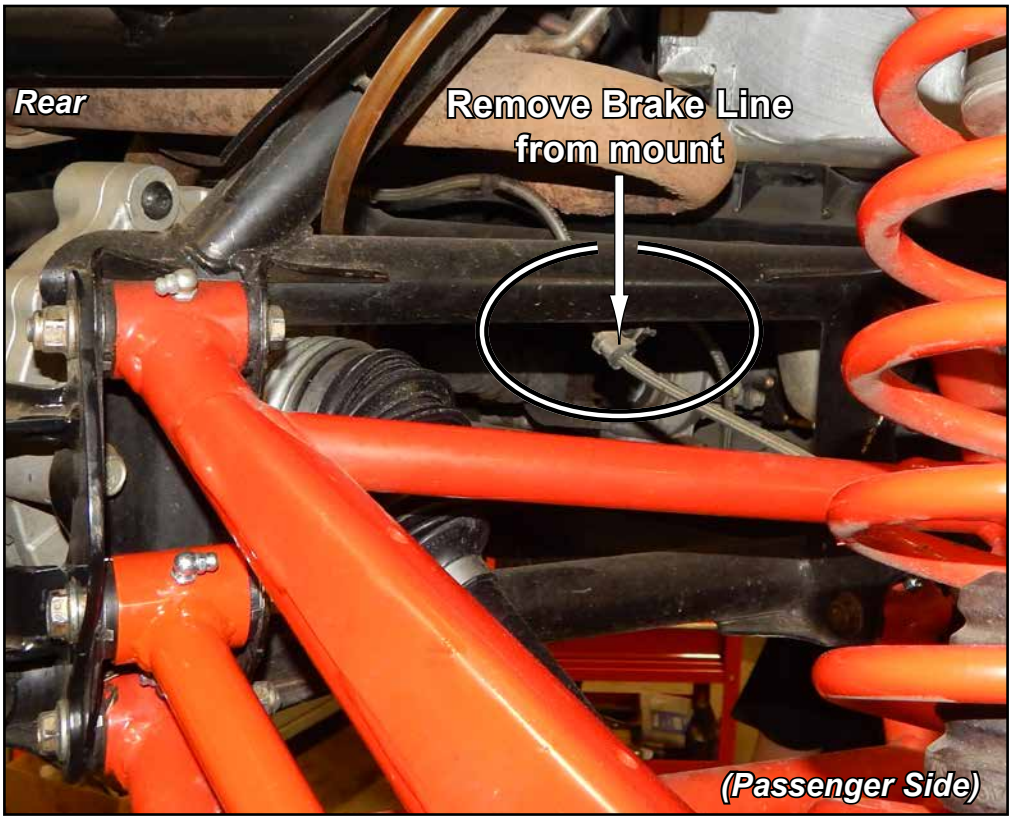


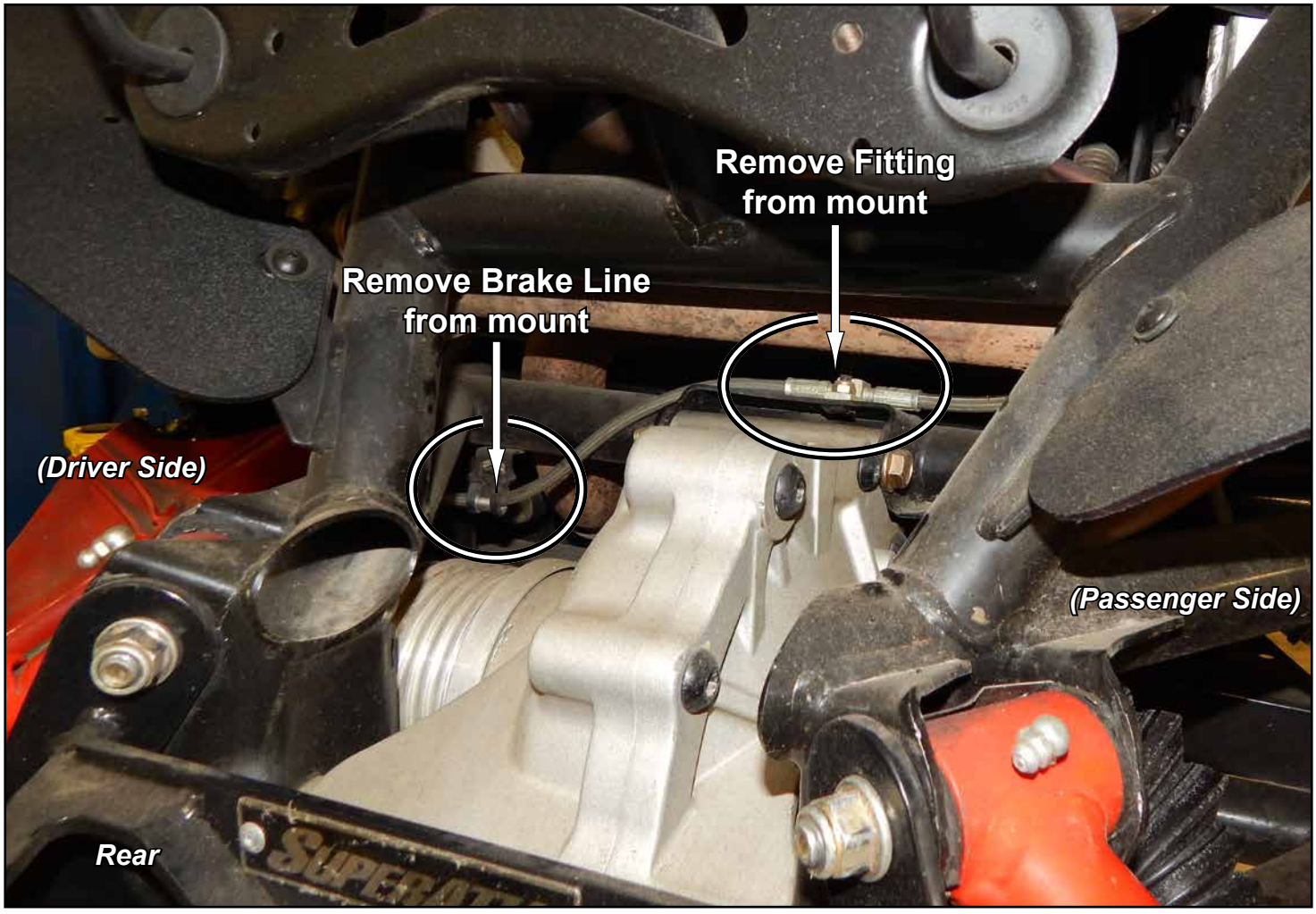
Rear Brake Line Removal continued:





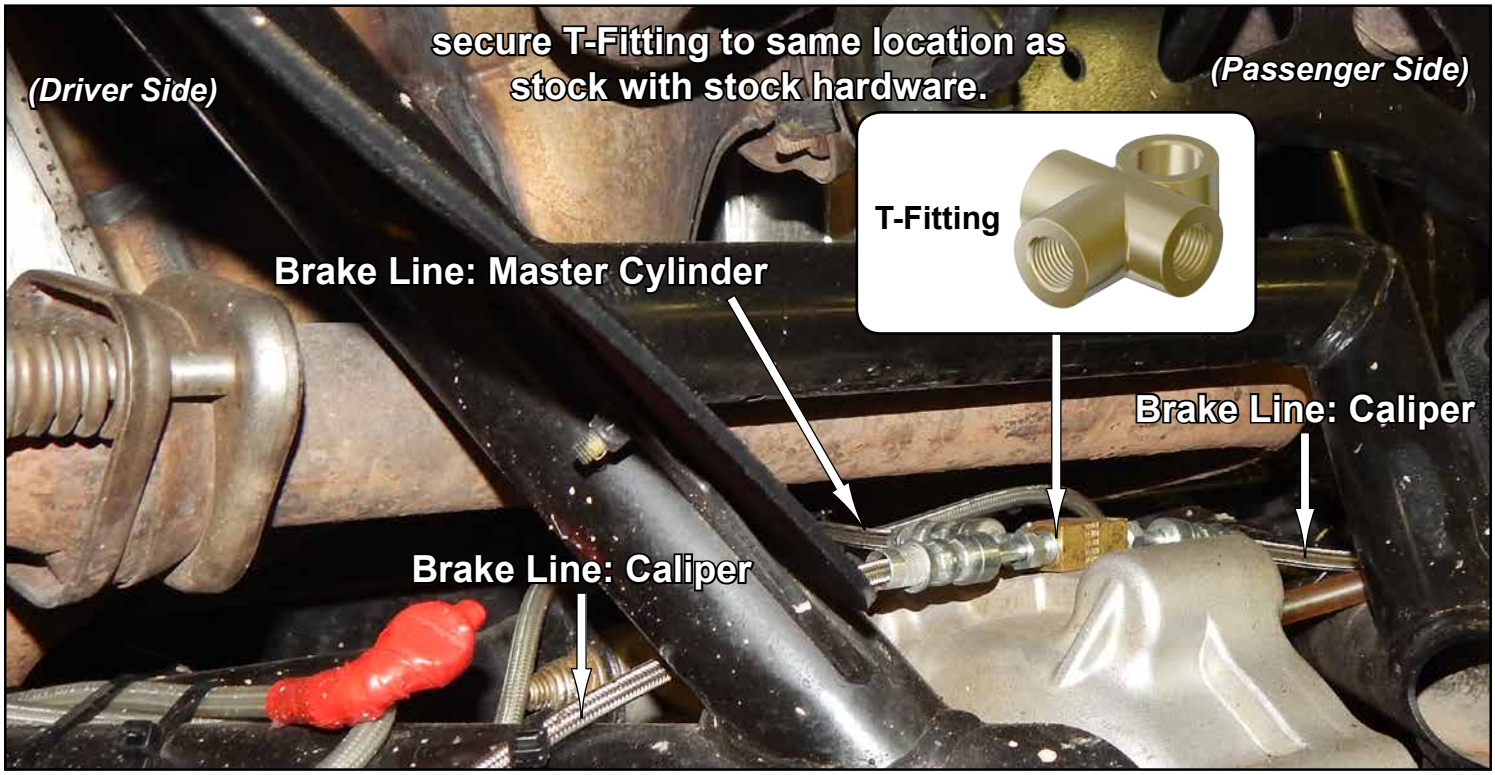
Rear Brake Line Removal continued:

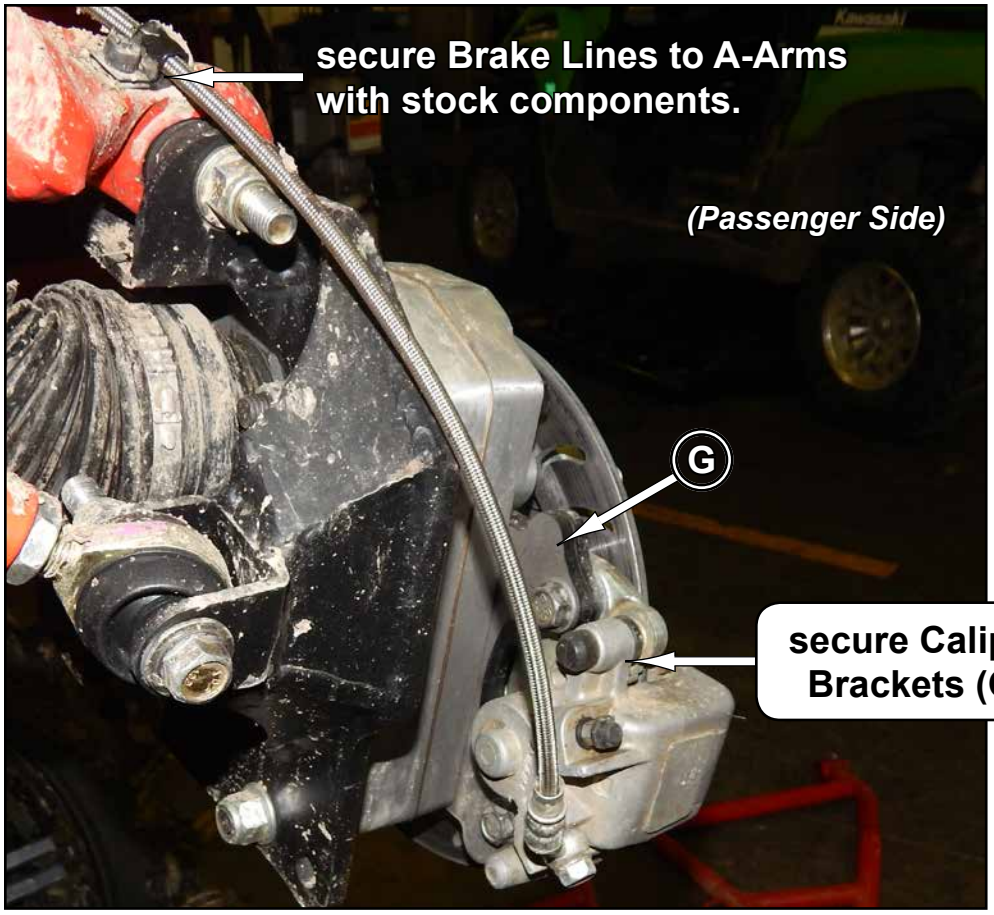




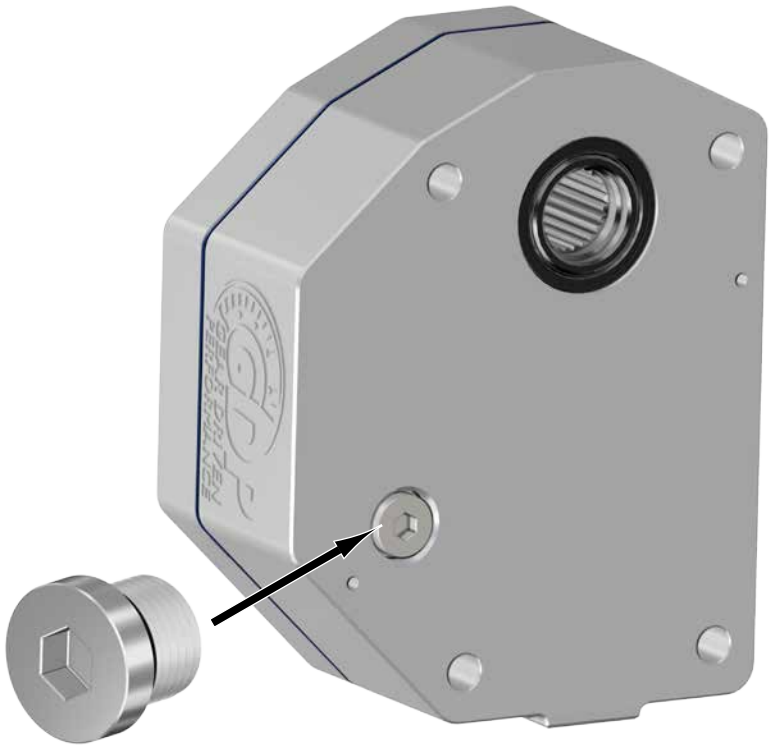
Rear Brake Line Installation:

- Install longest provided Brake Line to Master Cylinder. Route to rear of machine and connect to provided T-Fitting.
- Install Calipers to Caliper Mounting Brackets (G) with stock hardware:
  - Bleeders must face up when installed to Caliper Mounting Brackets.
  - Swap Driver Side Caliper with Passenger Side Caliper.





- Attach a hose to a funnel and fill each Gear Box (B-C) with 80W-90 Gear Oil.
- Fill up to fill hole.
- Install Drain Plug.



Drain Plug
Torque to 10 ft/lbs

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Although SuperATV® has thousands of satisfied customers, user should be aware that installing lift kits, long travel, or suspension kits, tires, etc. will change the ride of machine and may increase maintenance and part wear. Operating any off-road machine while, or after, consuming alcohol and/or drugs increases risk of bodily harm or death. No warranty or representation is made as to this product's ability to protect user from severe injury or death. SuperATV® urges operators and occupants to wear a helmet and appropriate riding gear at all times.

By purchasing and installing SuperATV® products, user agrees that should damages occur, SuperATV® will not be held responsible for loss of time, use, labor fees, replacement parts, or freight charges. SuperATV®, nor any 3rd party, will not be held responsible for any direct, indirect, incidental, special, or consequential damages that result from any product purchased from SuperATV®. The total liability of seller to user for all damages, losses, and causes of action, if any, shall not exceed the total purchase price paid for the product that gave rise to the claim.

SuperATV® will warranty only parts provided by SuperATV®. Any damage or problems with OEM housings, bearings, seals, or other manufacturers' products will not be covered by SuperATV®. SuperATV® parts and products are not warrantied if item was not installed properly, misused, or modified.

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The Buyer is responsible to fully understand the capability and limitations of his/her vehicle according to manufacturer specifications, warnings and instructions and agrees to hold SuperATV® harmless from any damage resulting from failure to adhere to such specifications, warnings and/ or instructions. The Buyer is also responsible to obey all applicable federal, state, and local laws and ordinances when operating his/her vehicle while using this product, and the Buyer agrees to hold SuperATV® harmless from any violation thereof.

Instructions for OPTIONAL Frame Stiffener, Winch Mount, etc. included.

Disregard if only Portal Gear Hubs are being installed.

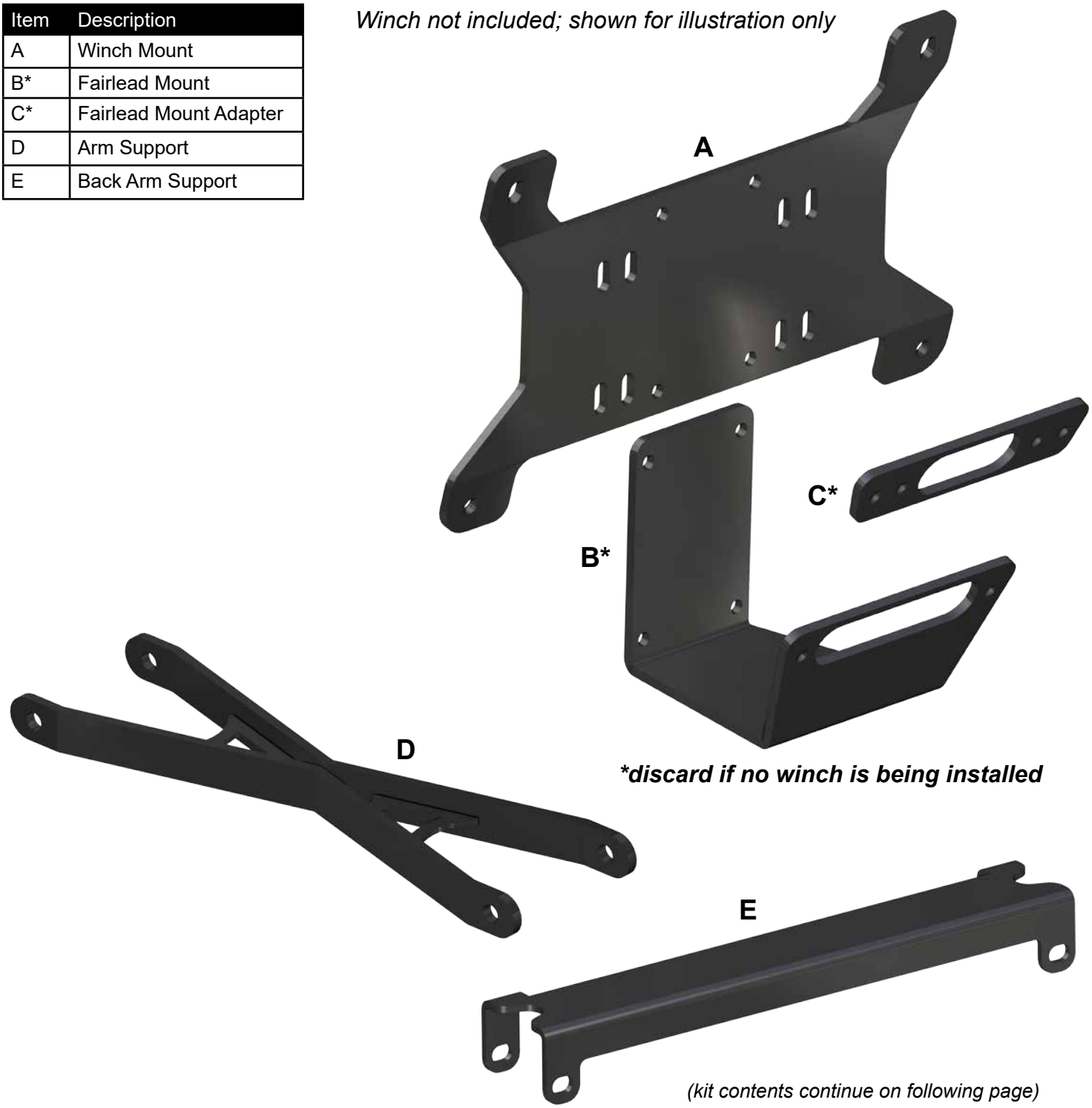
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INSTALLATION INSTRUCTIONS

Frame Stiffener: for Can-Am Maverick

Item	Description
A	Winch Mount
B*	Fairlead Mount
C*	Fairlead Mount Adapter
D	Arm Support
E	Back Arm Support

Winch not included; shown for illustration only



***discard if no winch is being installed**

(kit contents continue on following page)

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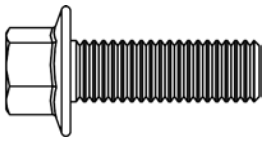
8:00am - 9:00pm EST M-Th
8:00am - 7:00pm EST Friday
9:00am - 2:00pm EST Saturday

Read instructions and view illustrations before beginning.

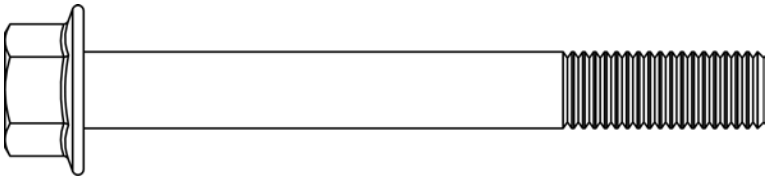
Thank You For Choosing

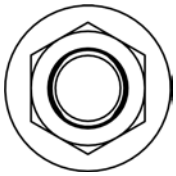
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(kit contents continued)

4x  **M8-1.25 x 25mm Lg. FHCS**

4x  **M8-1.25 Nylock Nut**

8x  **M10-1.50 x 90mm Lg. FHCS**

8x  **M10-1.50 Nylock Nut**

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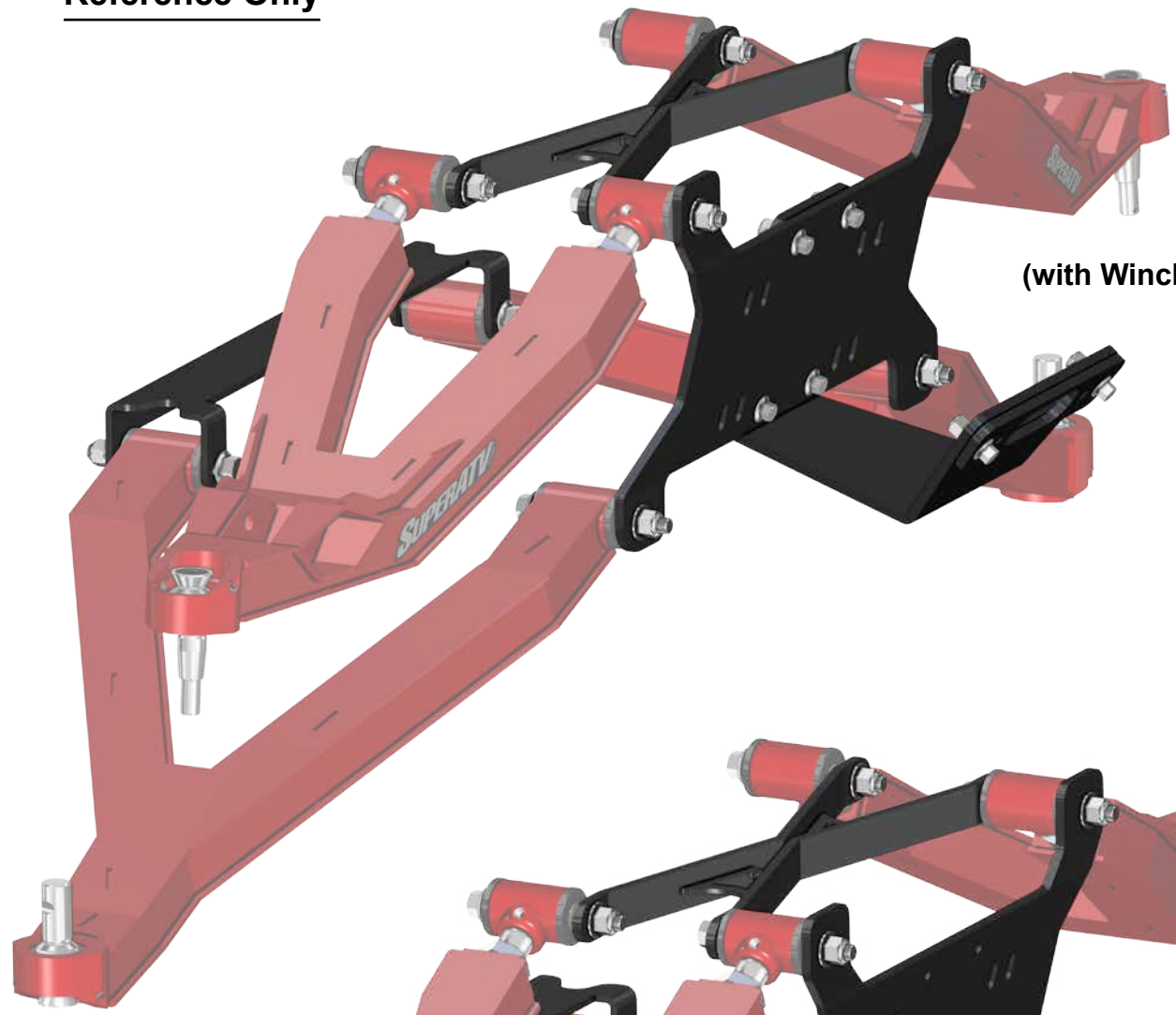
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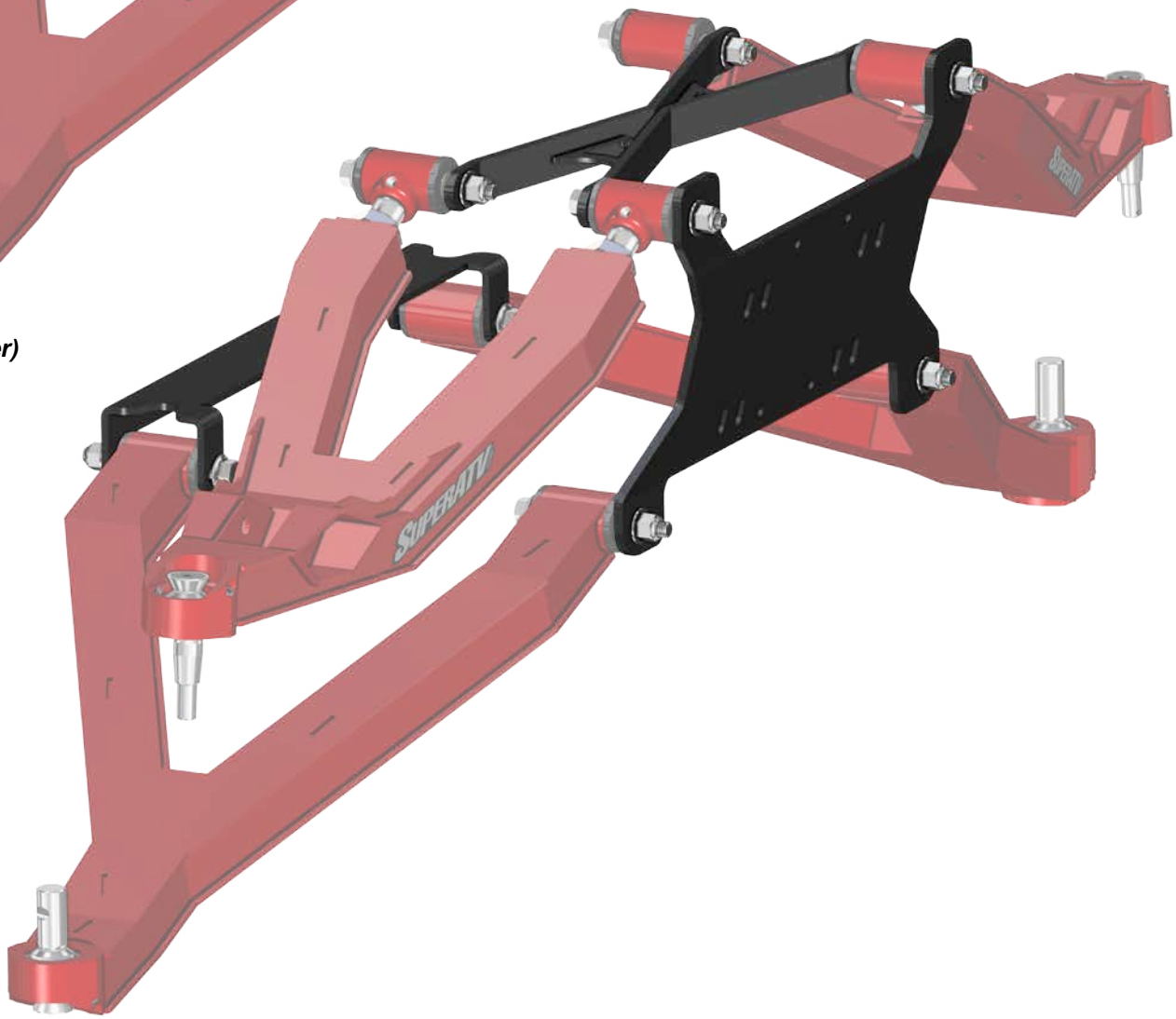
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Reference Only



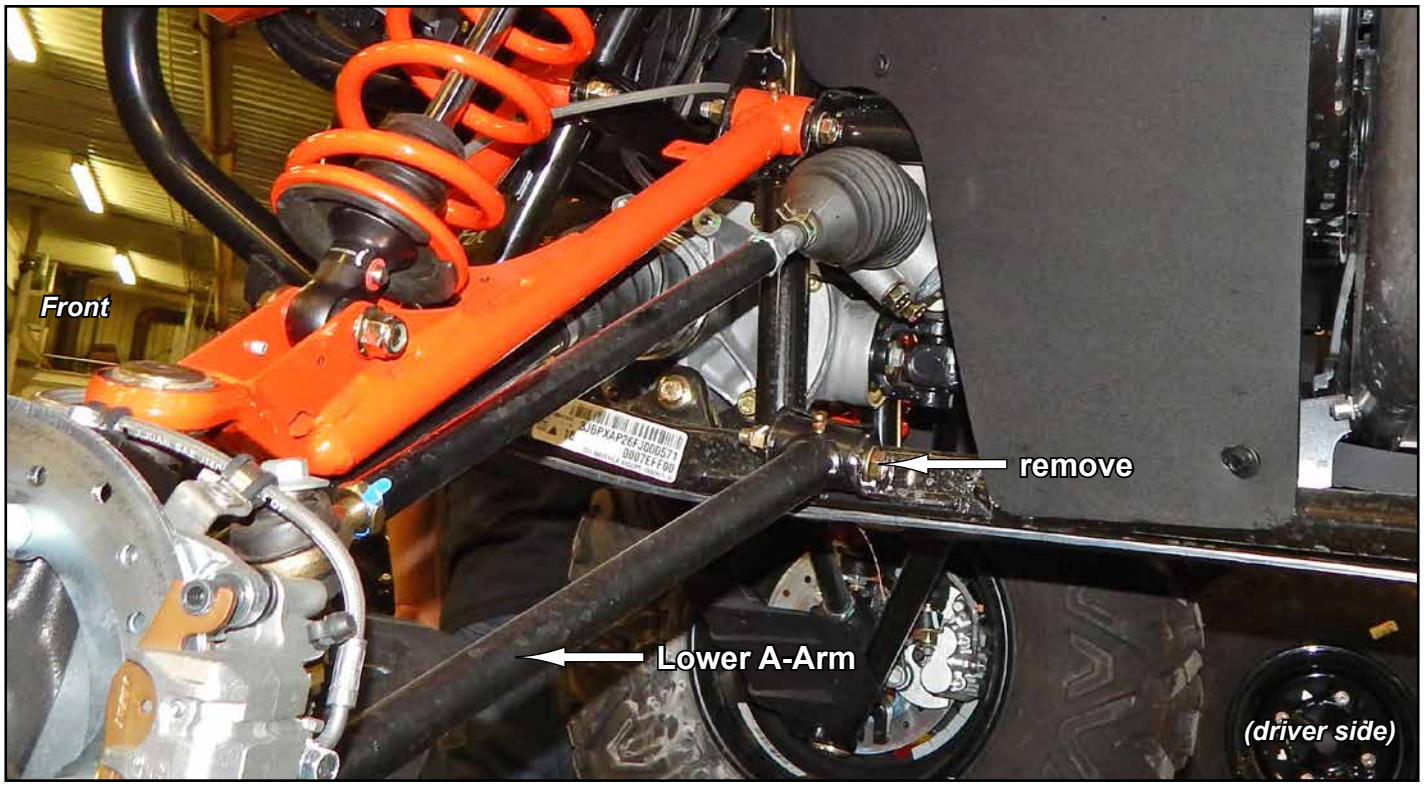
(with Winch Mount)

(driver)

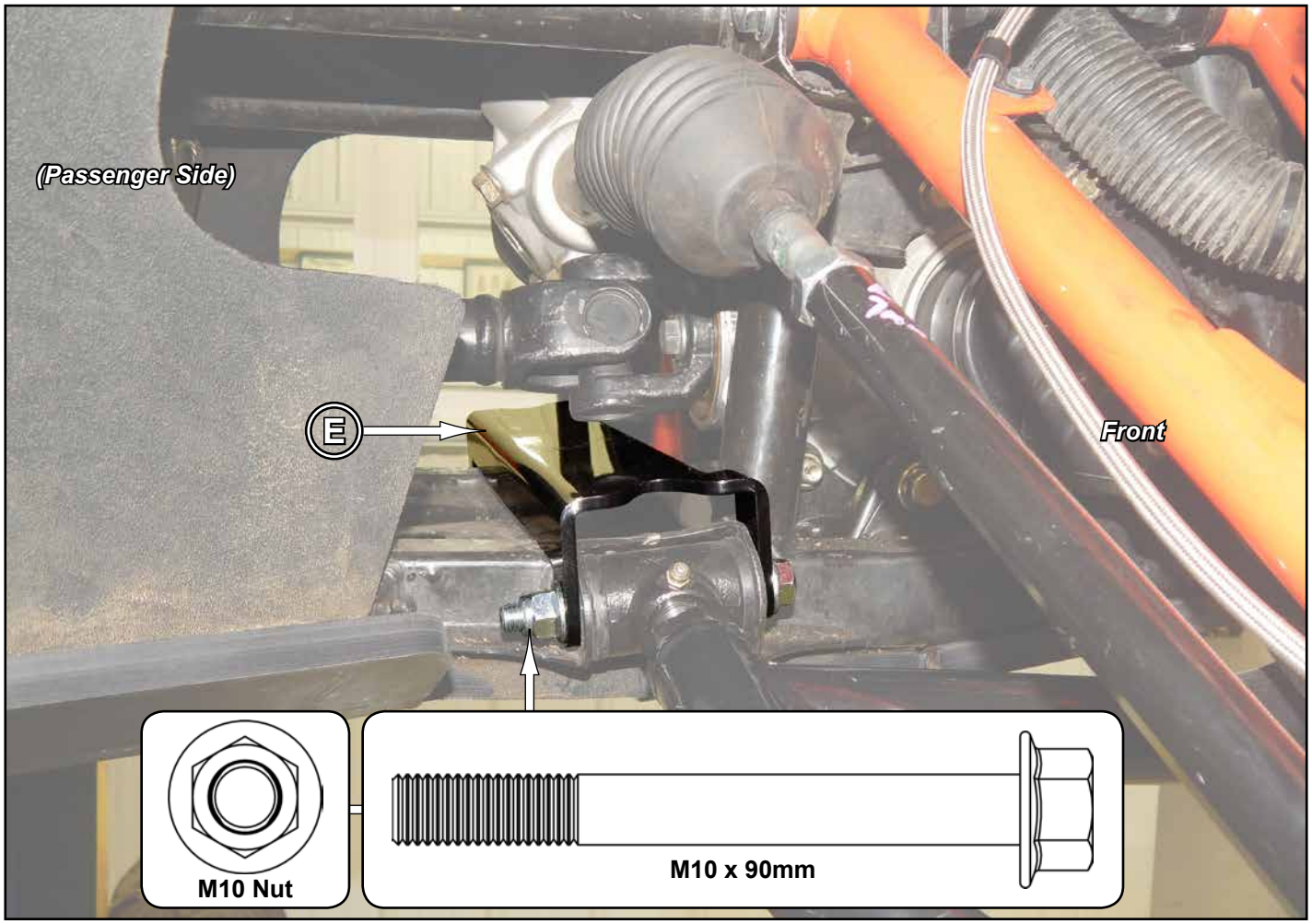


(passenger)

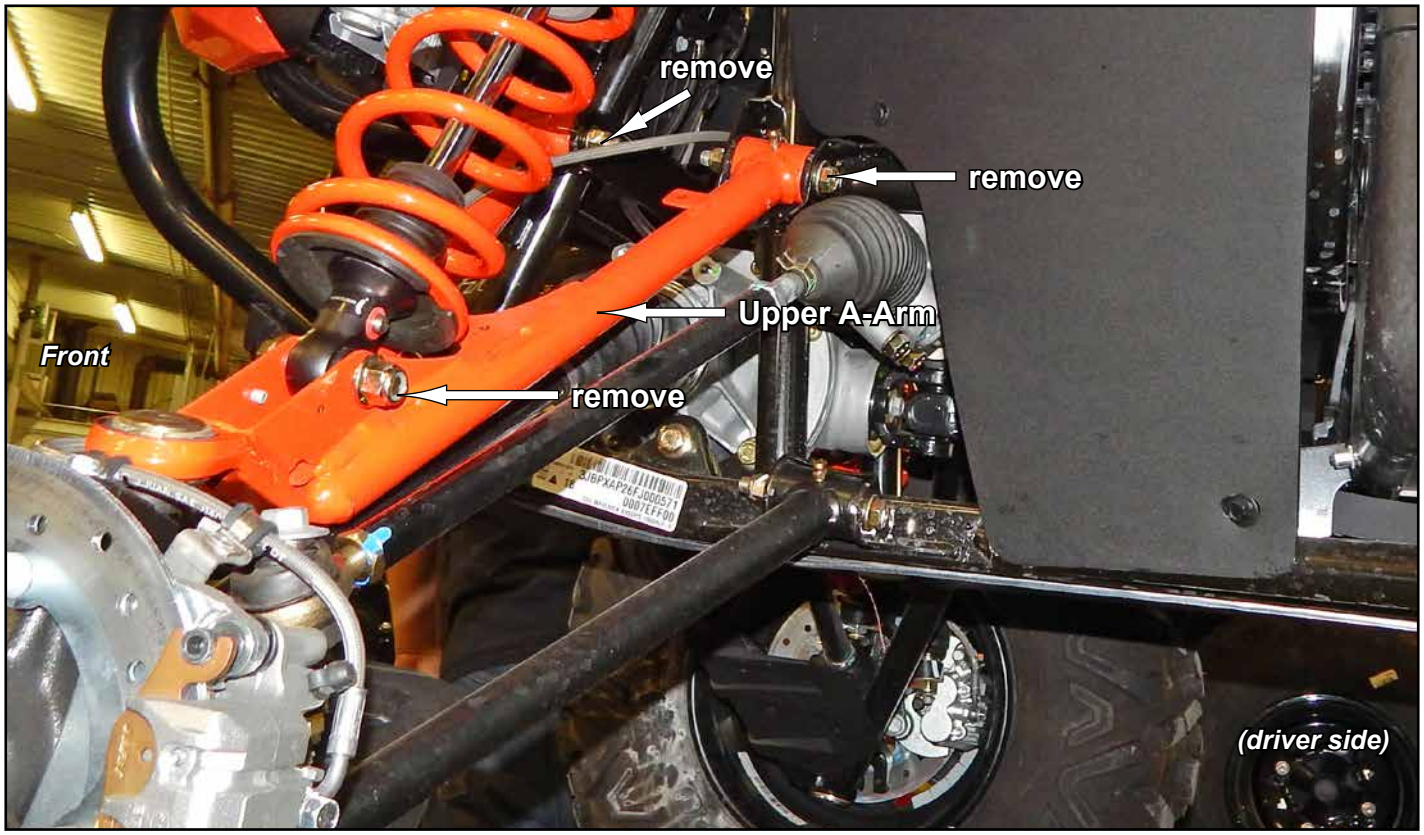
- Remove rearmost hardware from Lower A-Arms.



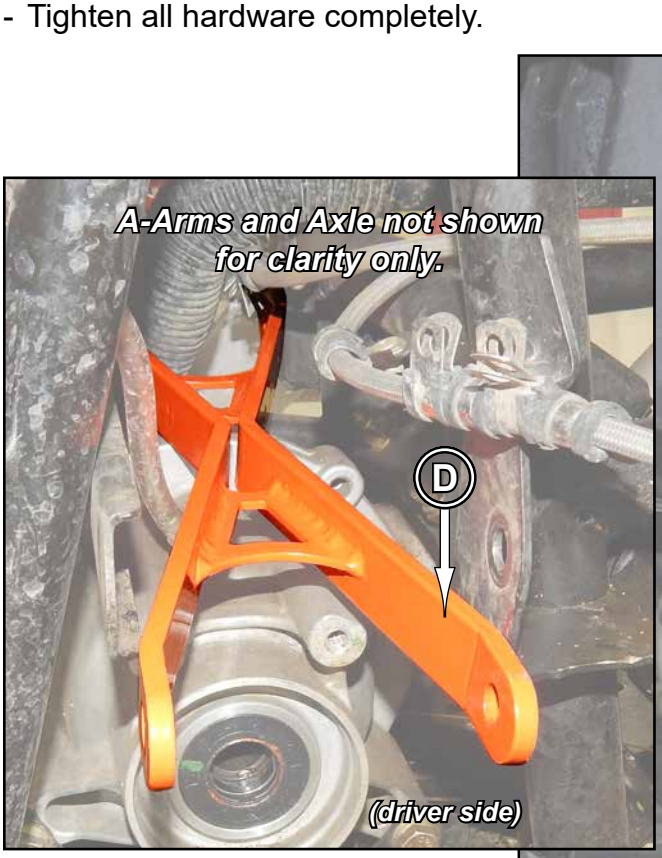
- Install Back Arm Support (E) and secure with hardware shown. *SuperATV recommends using thread locker on Nuts.*
- Tighten all hardware completely.

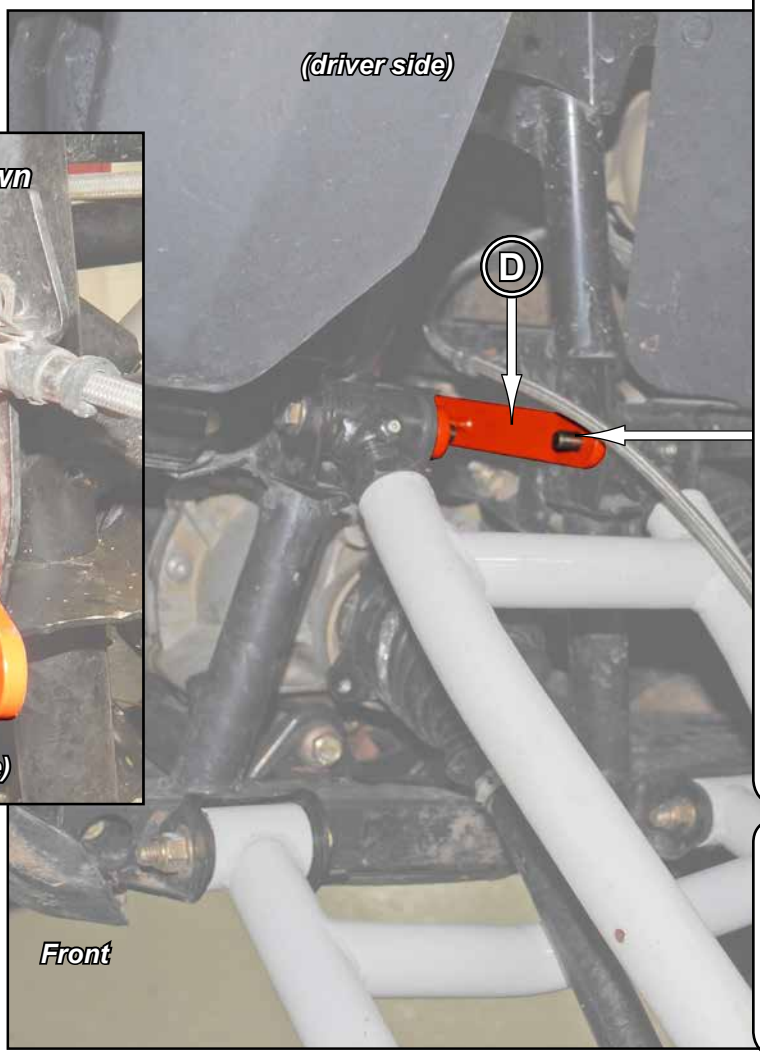


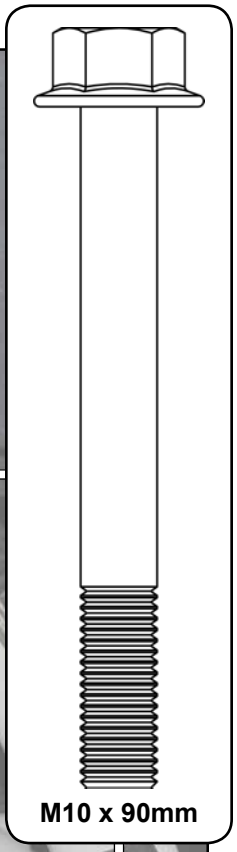
- Remove Shocks from Upper A-Arms.
- Remove hardware from Upper A-Arms.



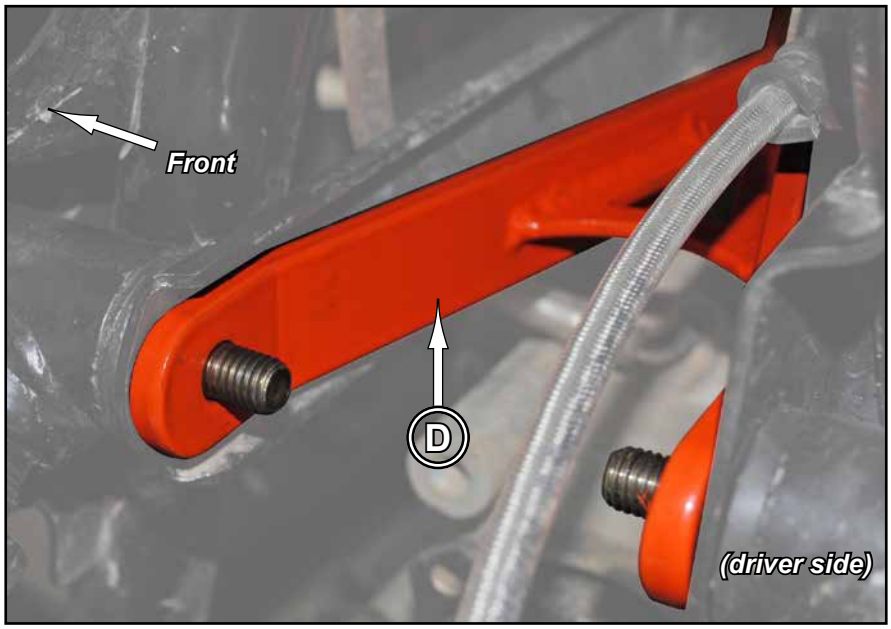
- Install Arm Support (D) to Frame as shown.
- Secure A-Arms and Arm Support (D) with hardware shown. **Do not install Nuts to forward most bolts**. *SuperATV recommends using thread locker on Nuts.*
- Reinstall Shocks to Upper A-Arms with stock hardware.
- Tighten all hardware completely.



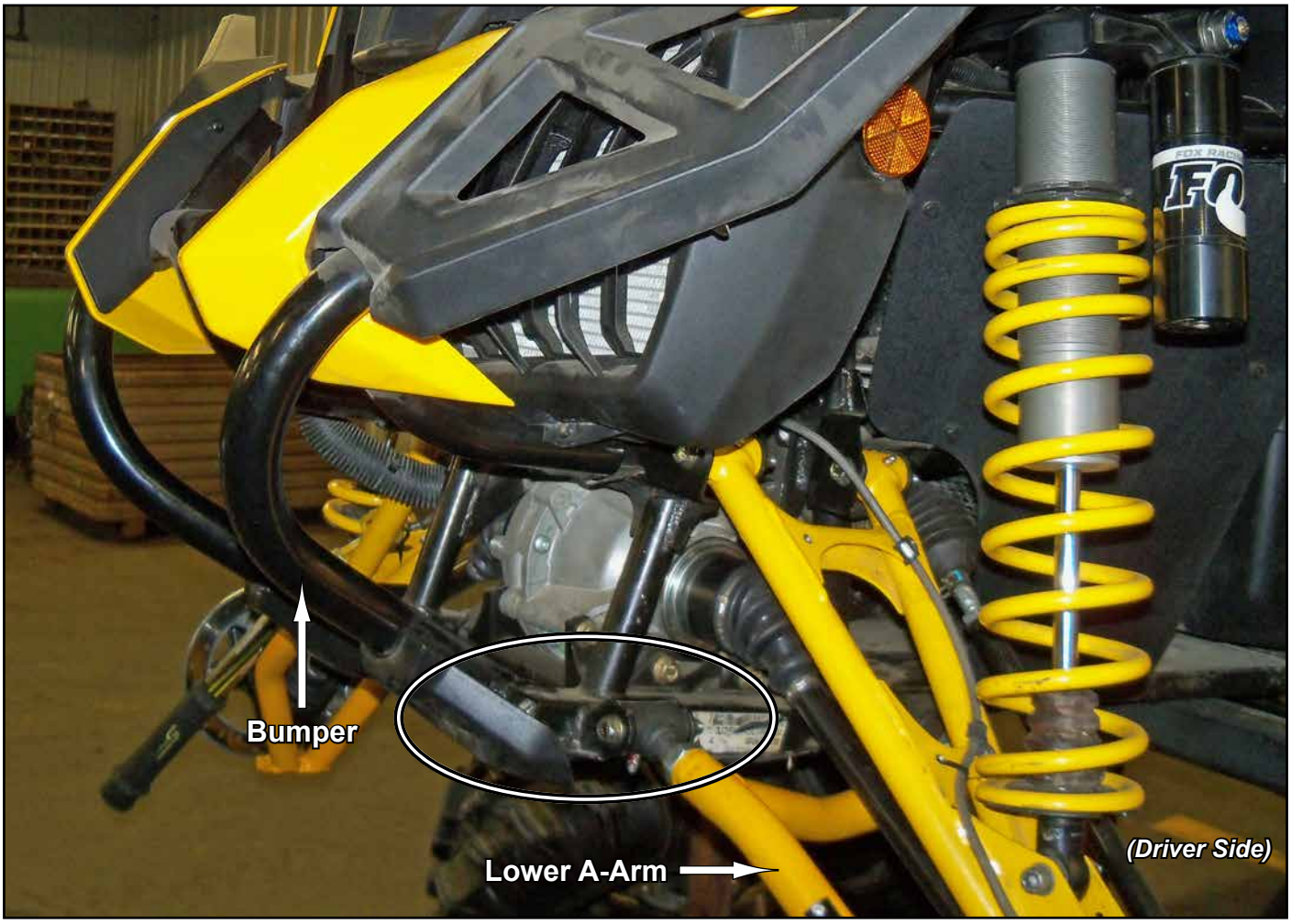








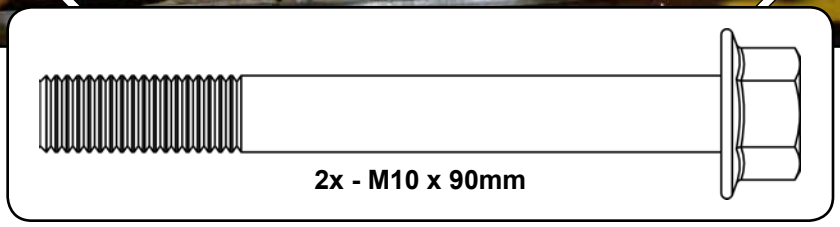
- Remove Bumper from machine.



Go to pages 9 - 10 if Winch is being installed.

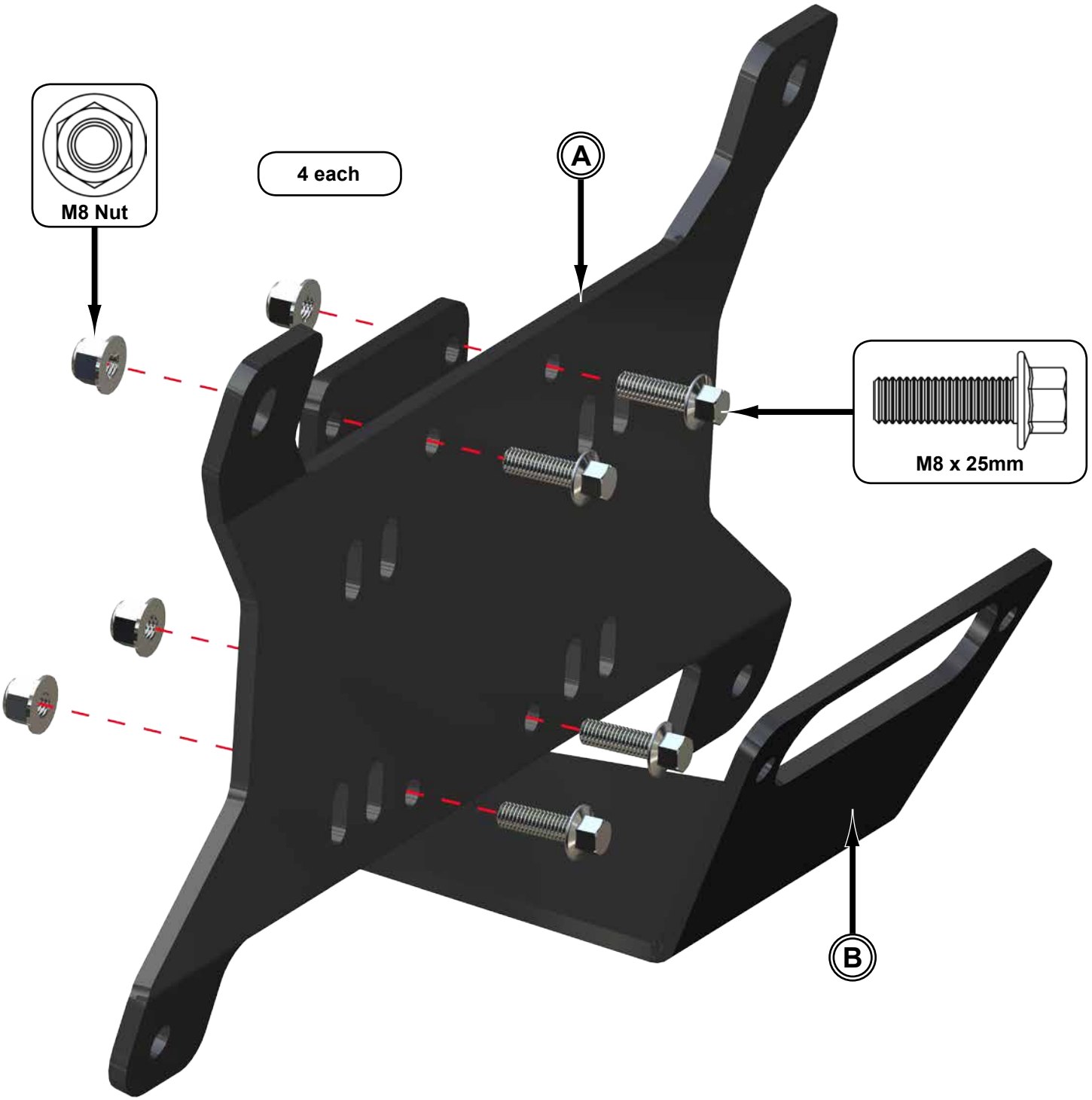
- Install hardware shown; *Bolt heads to face rear of machine*.
- Install Winch Mount (A) on to M10 Bolts and secure with provided M10 Nuts.
- Reinstall Bumper and tighten all hardware completely.





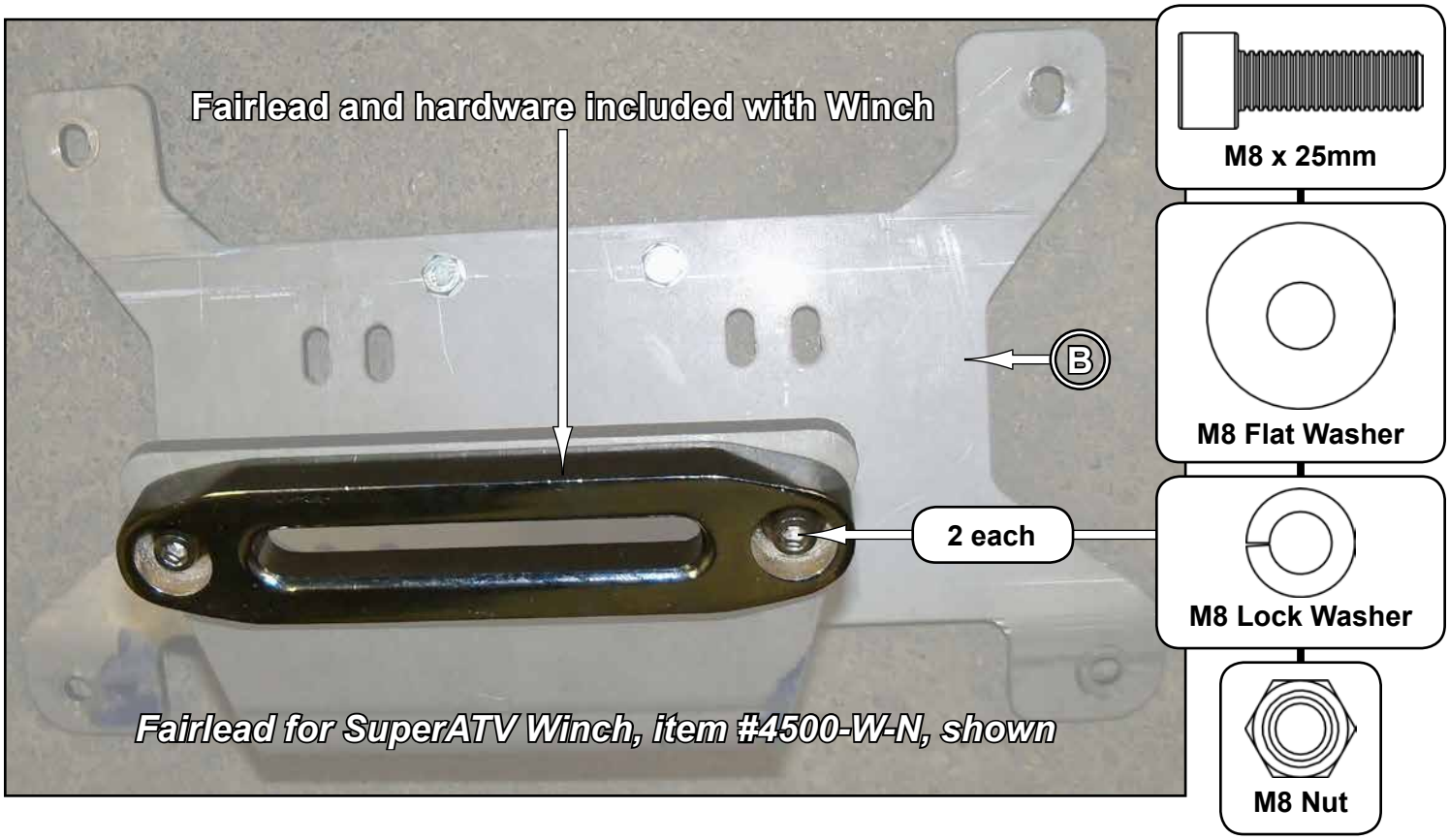


- Install Winch Mount (A) to Fairlead Mount (B) with hardware shown.

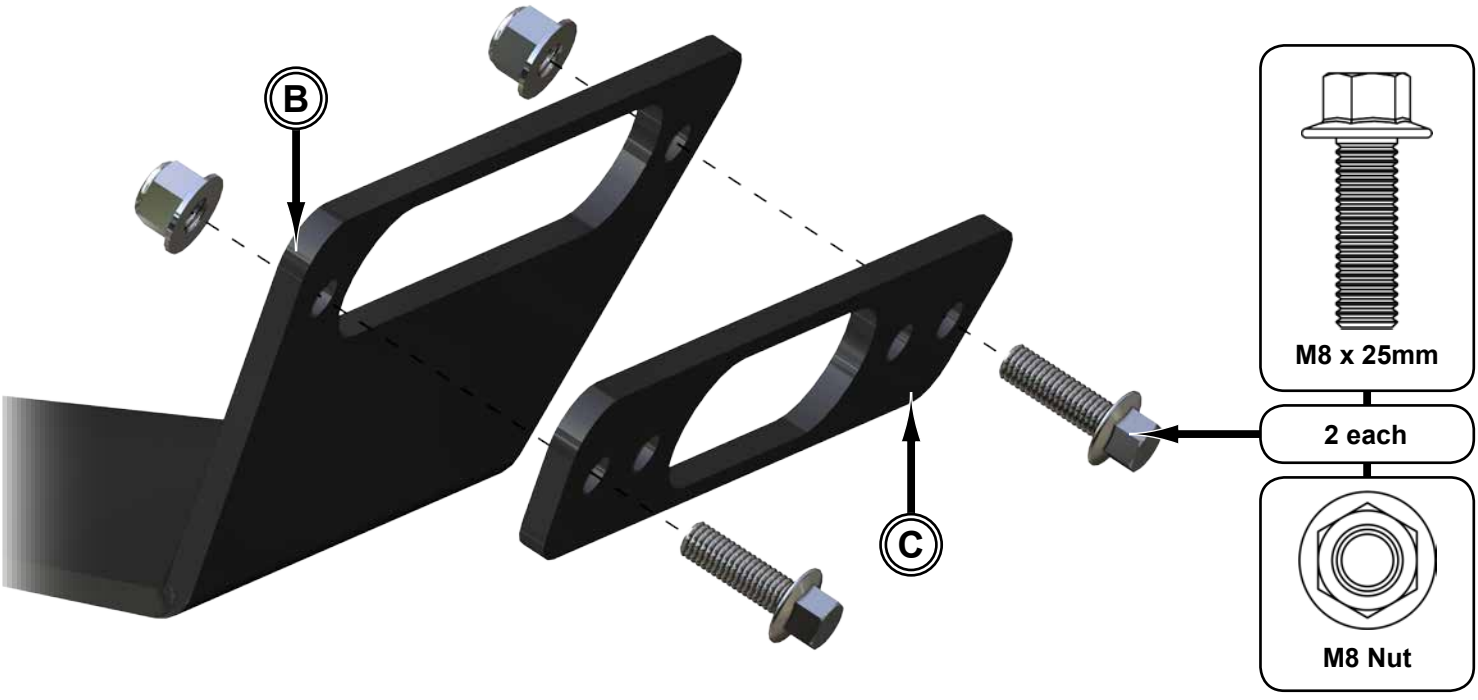


- Install Fairlead to Fairlead Mount (B); hardware and Fairlead included with Winch.

- Install Fairlead to Fairlead Mount (B); hardware and Fairlead included with Winch.



- SuperATV 3500 Lb. Winch will require installation of Fairlead Mount Adapter (C) as shown.

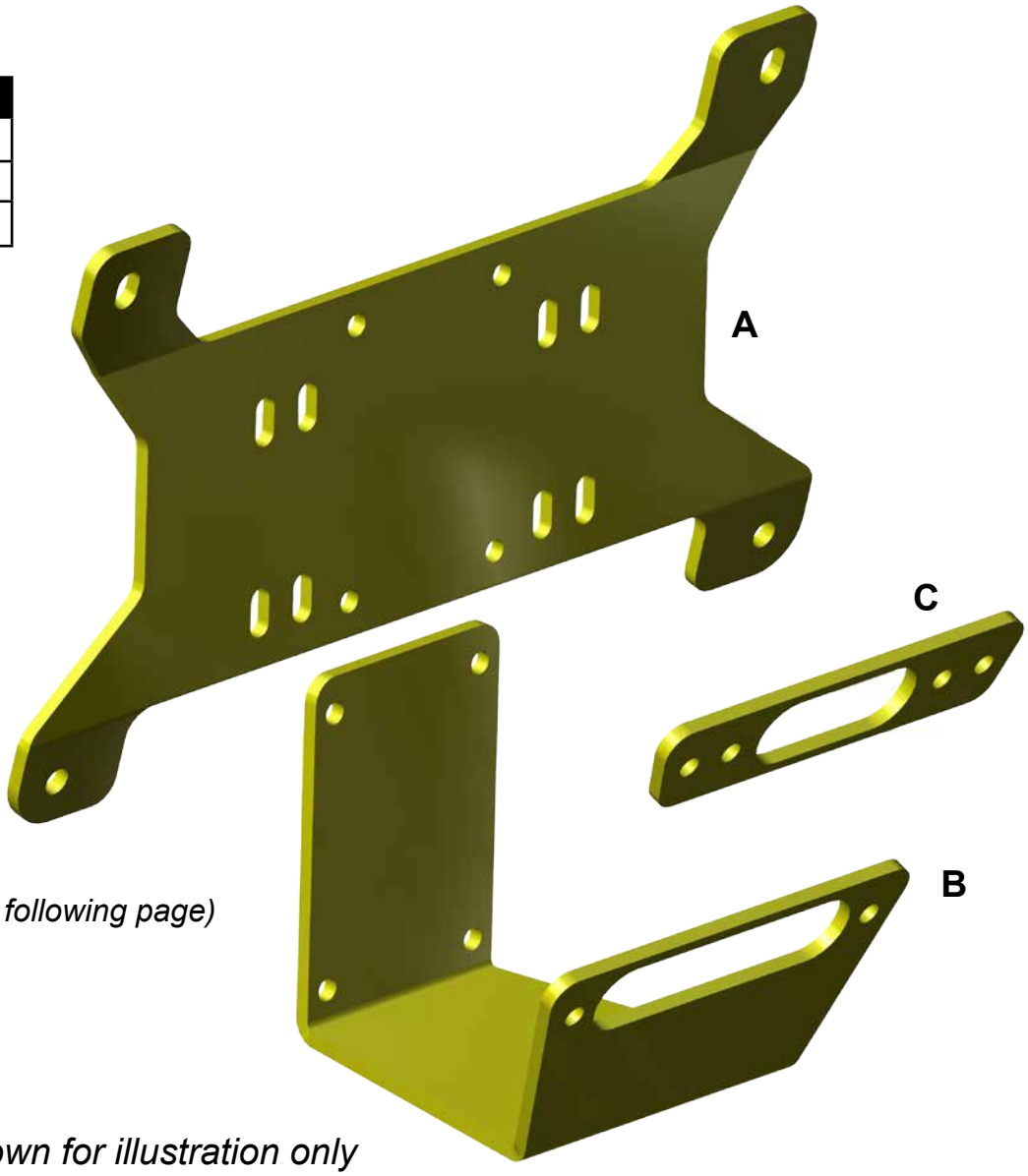


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INSTALLATION INSTRUCTIONS

Winch Mount: for Can-Am Maverick

Item	Description
A	Winch Mount
B	Fairlead Mount
C	Fairlead Mount Adapter



(kit contents continue on following page)

Winch not included; shown for illustration only

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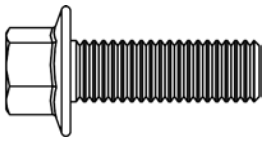
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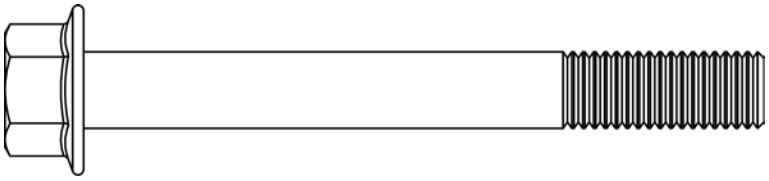
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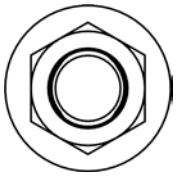
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(kit contents continued)

6x  **M8-1.25 x 25mm Lg. FHCS**

6x  **M8-1.25 Nylock Nut**

4x  **M10-1.50 x 90mm Lg. FHCS**

4x  **M10-1.50 Nylock Nut**

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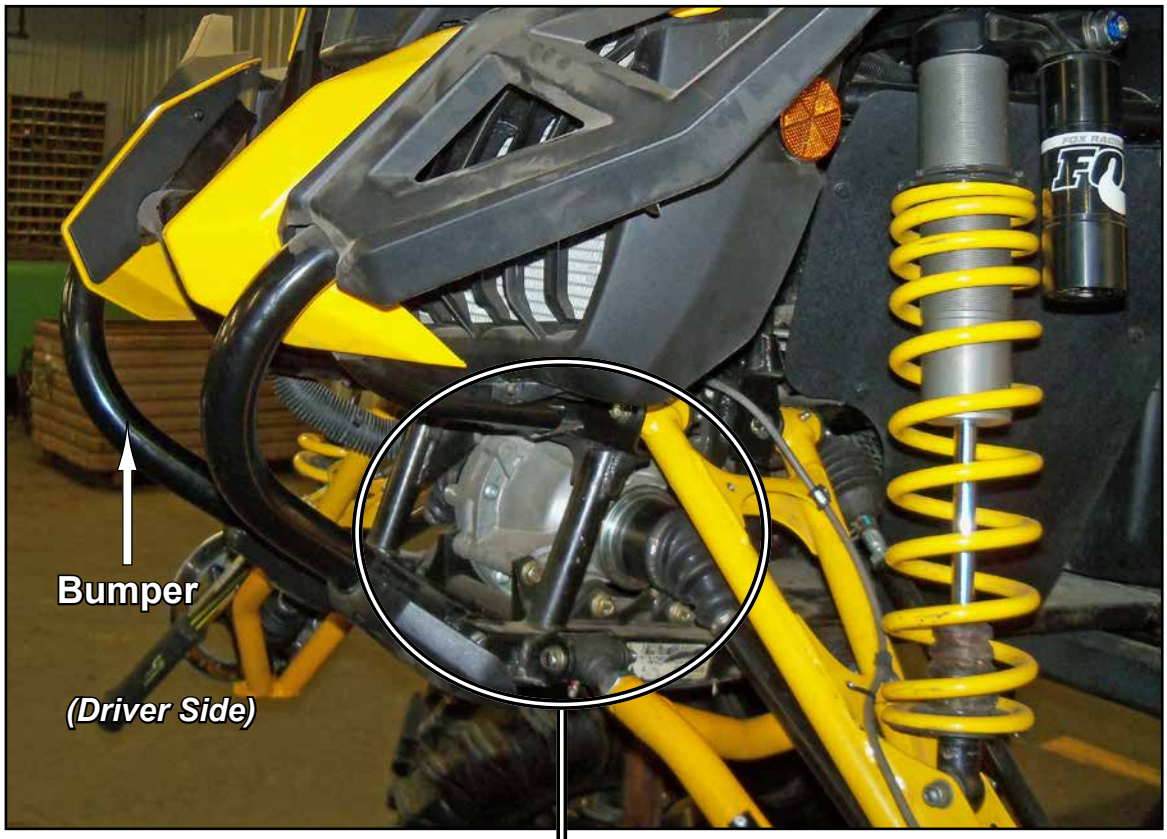
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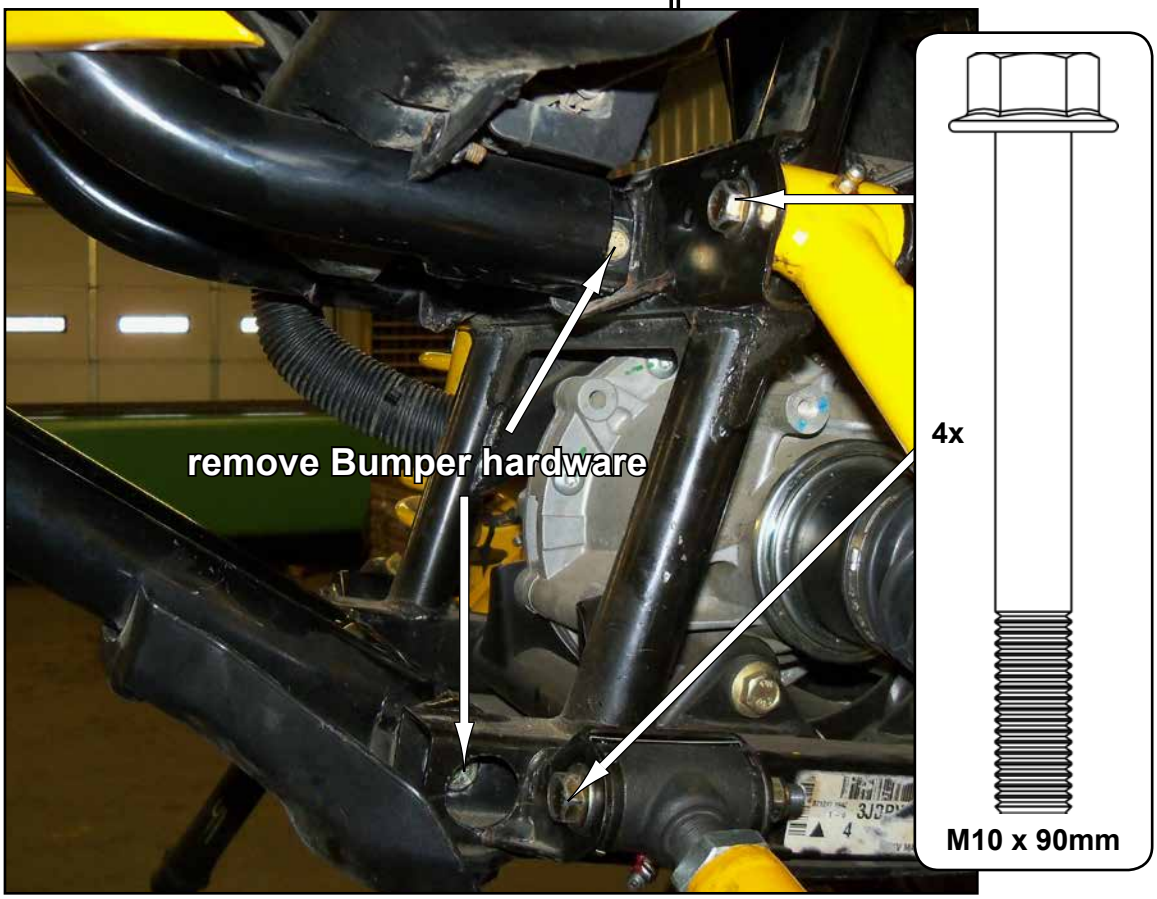
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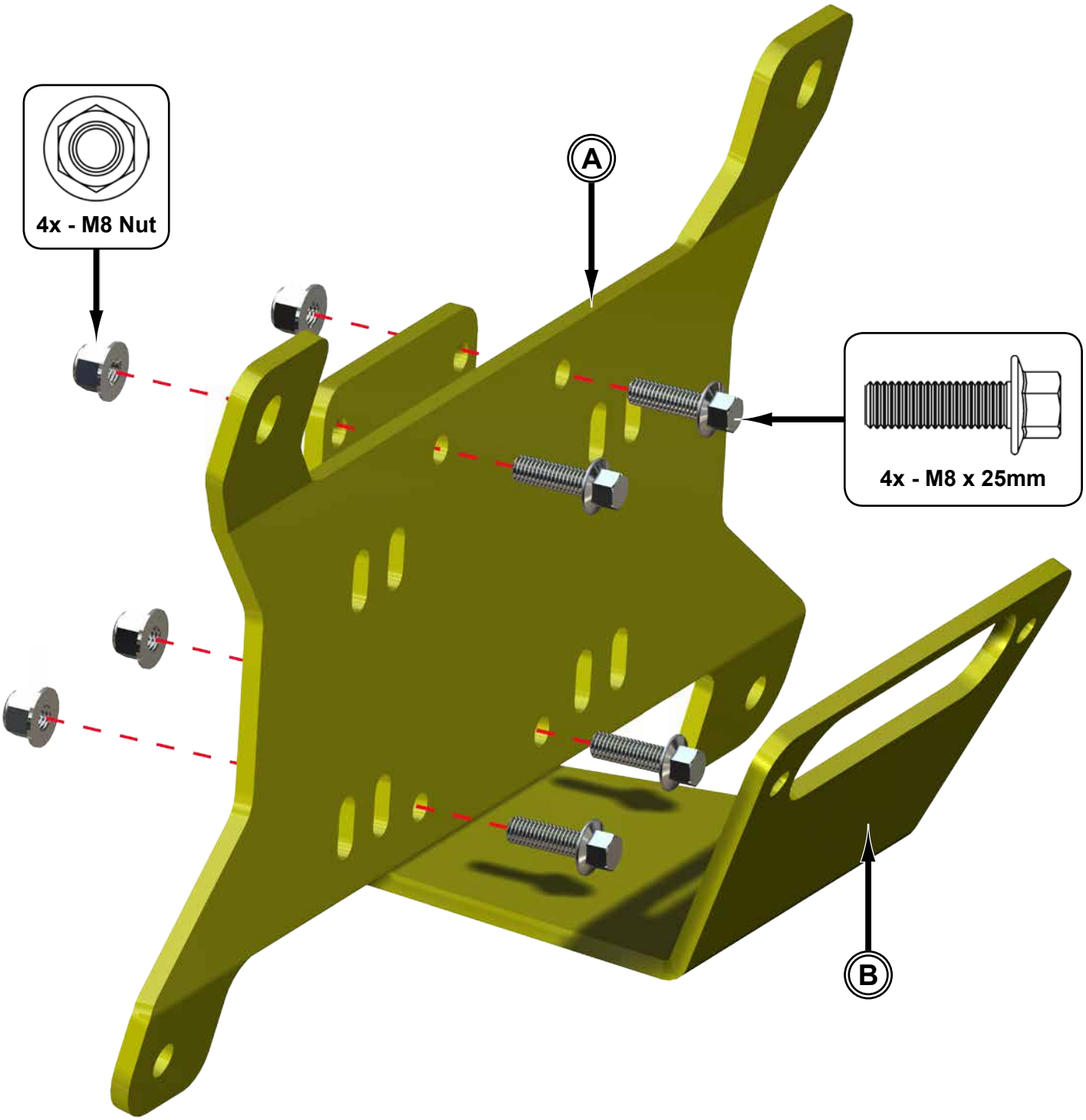
Do not tighten hardware completely unless noted. Keep all components removed from machine.

- Remove Bumper from machine.
- Remove and replace forward most hardware from A-Arms with hardware shown; *Bolt heads to face rear of machine*. **Do not install Nuts**.

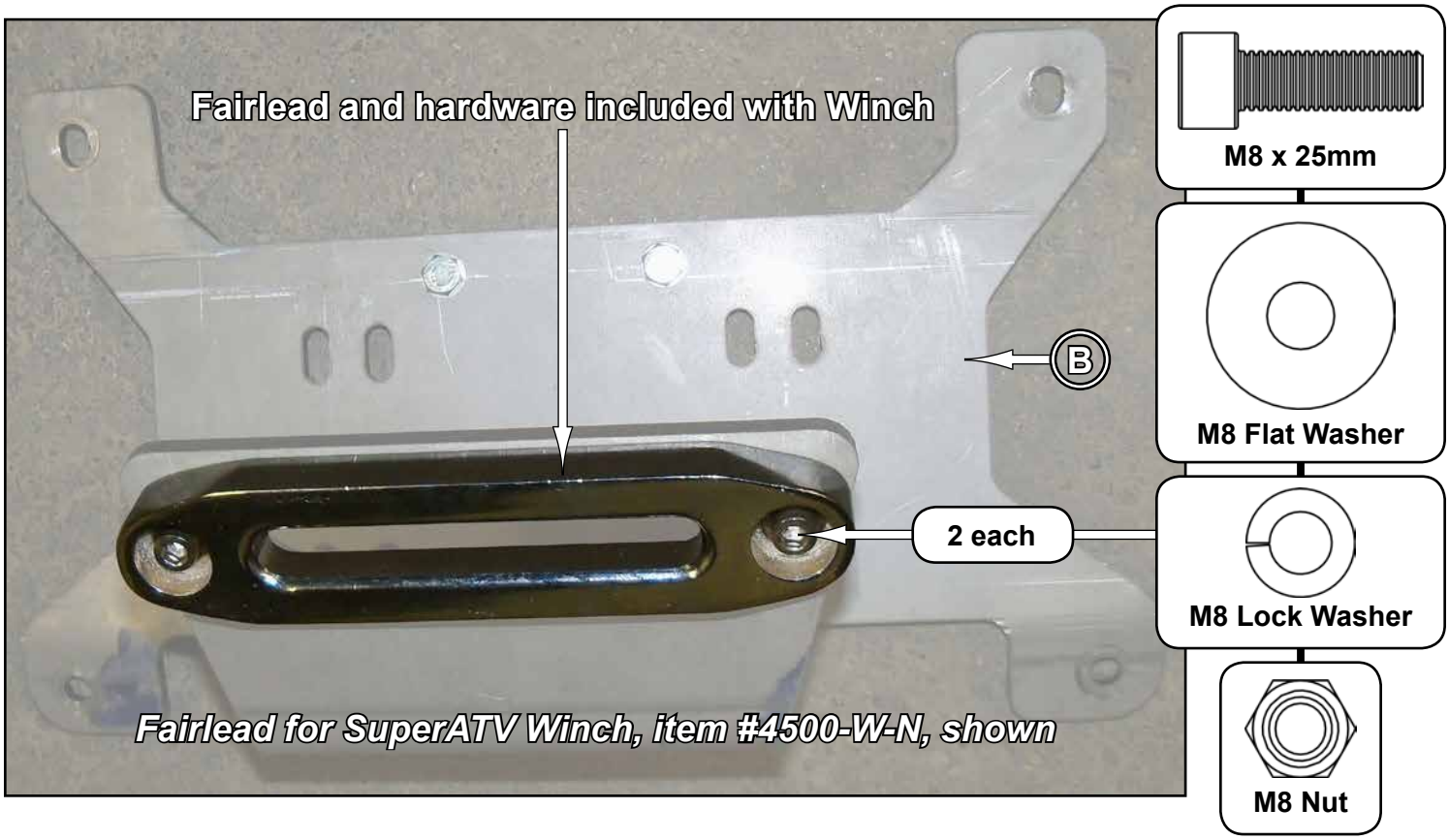




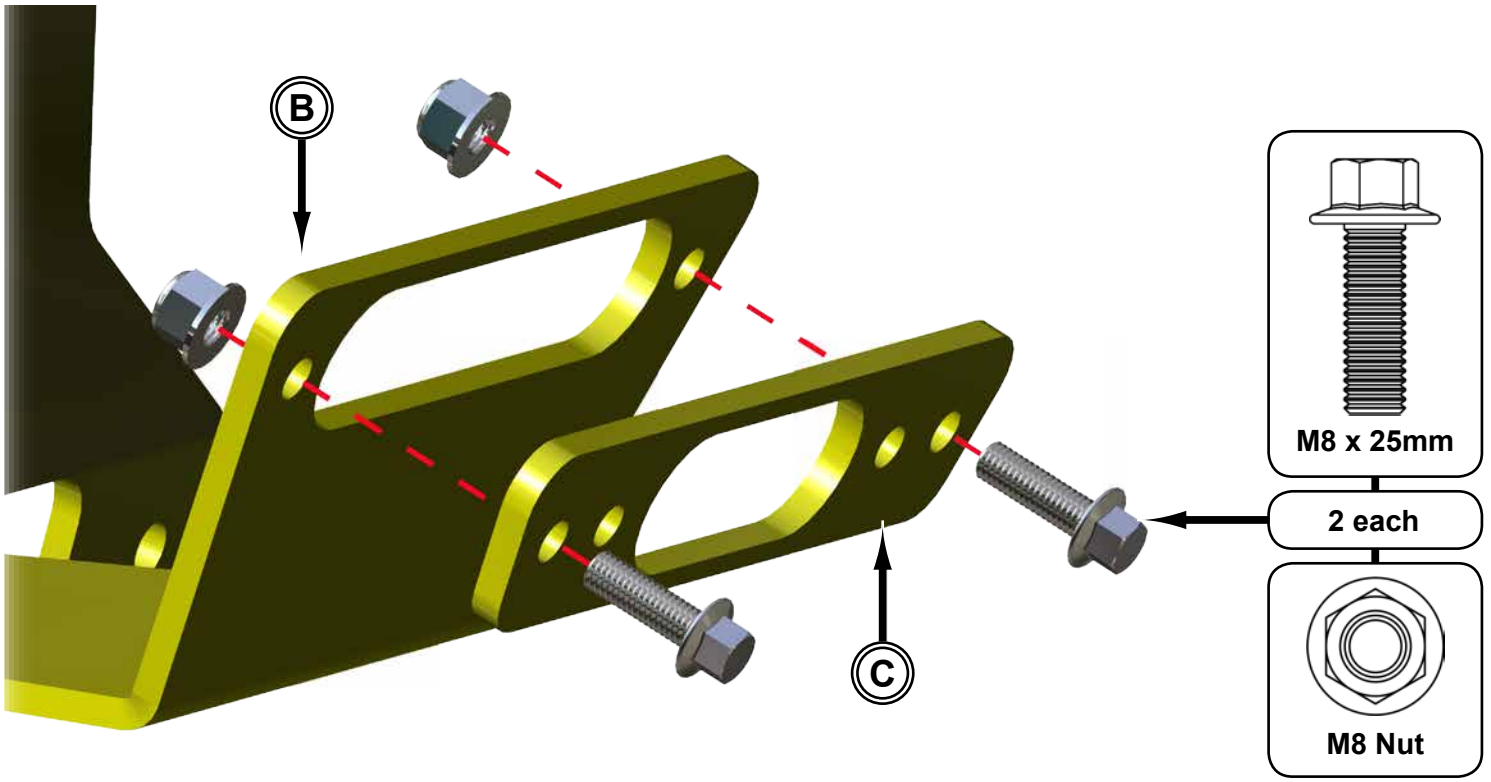
- Join Winch Mount (A) to Fairlead Mount (B) with hardware shown.



- Install Fairlead to Fairlead Mount (B); hardware and Fairlead included with Winch.

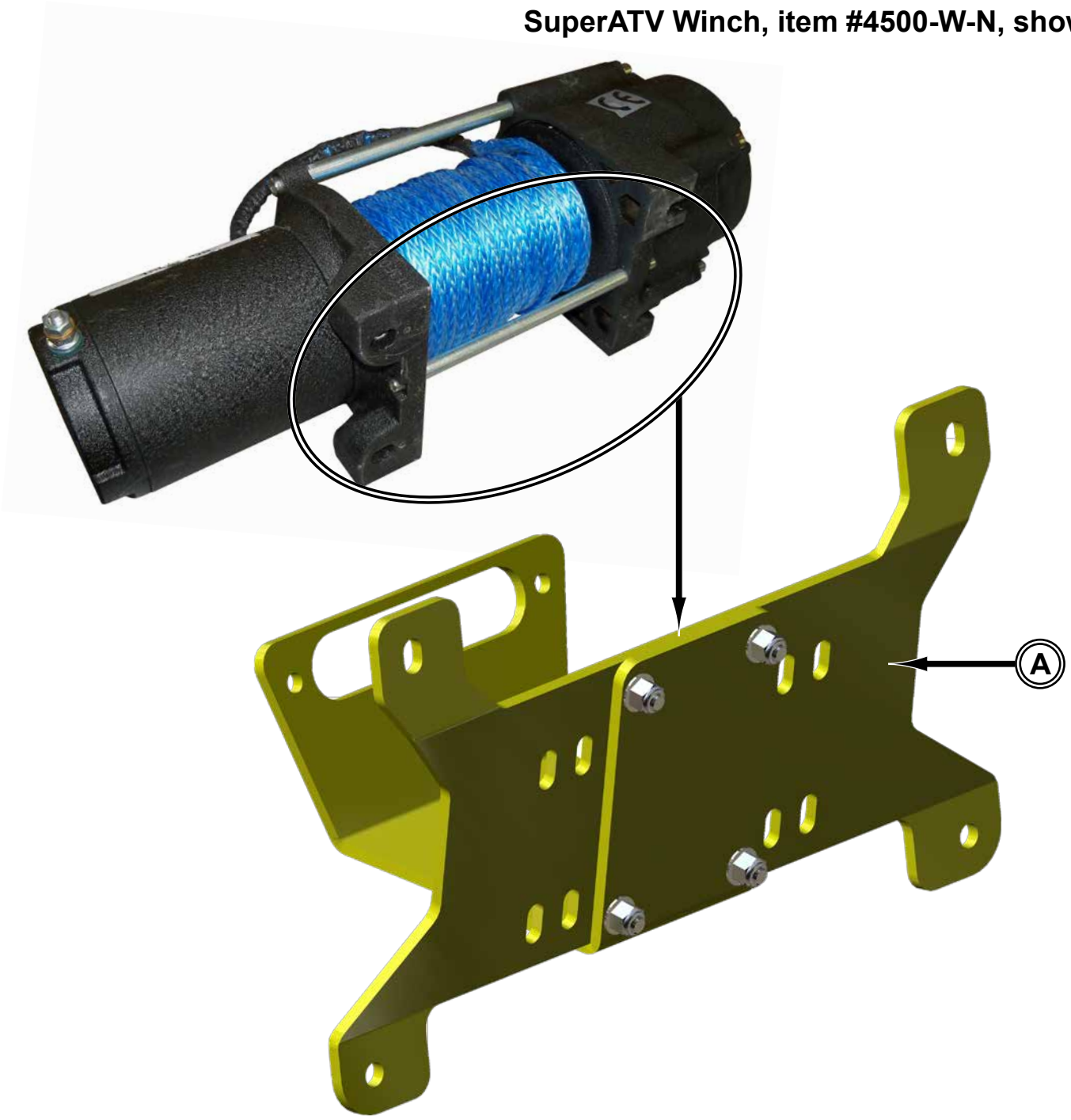


- SuperATV 3500 Lb. Winch will require installation of Fairlead Mount Adapter (C) as shown.



- Install Winch to Winch Mount (A). *Hardware included with Winch*.

SuperATV Winch, item #4500-W-N, shown



- Install Winch Mount (A) on to previously installed M10 Bolts and secure with provided M10 Nuts.
- Reinstall Bumper and tighten all hardware completely.



