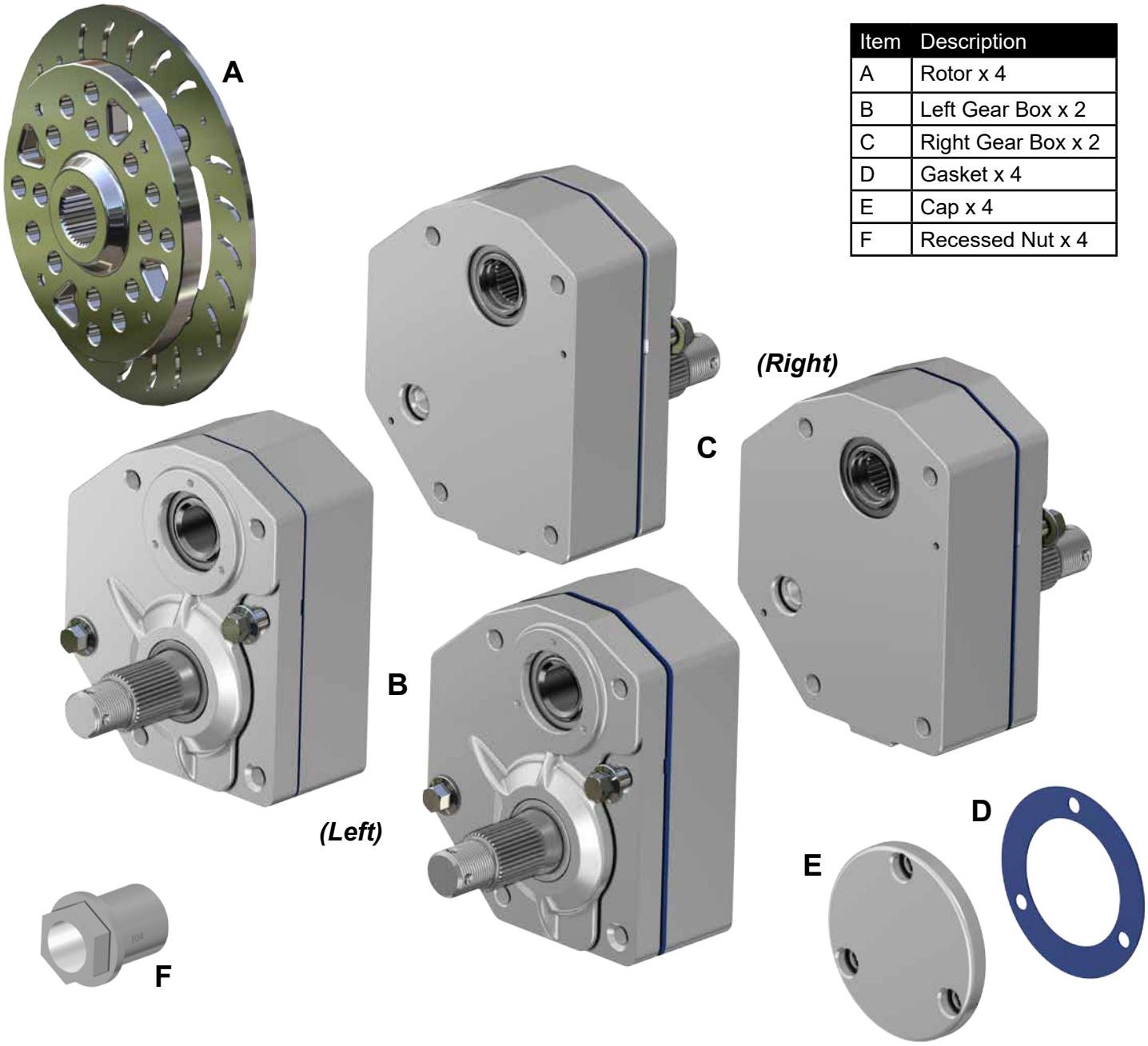
2753 Michigan Road • Madison, Indiana 47250 • 855-743-3427

INSTALLATION INSTRUCTIONS
Gen 3 Portal Gear Hubs
Arctic Cat® Wildcat Trail

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	Recessed Nut x 4



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.

(Kit Contents continue on following pages)

Need help with your installation?

sales@superatv.com

www.superatv.com

1-855-743-3427

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

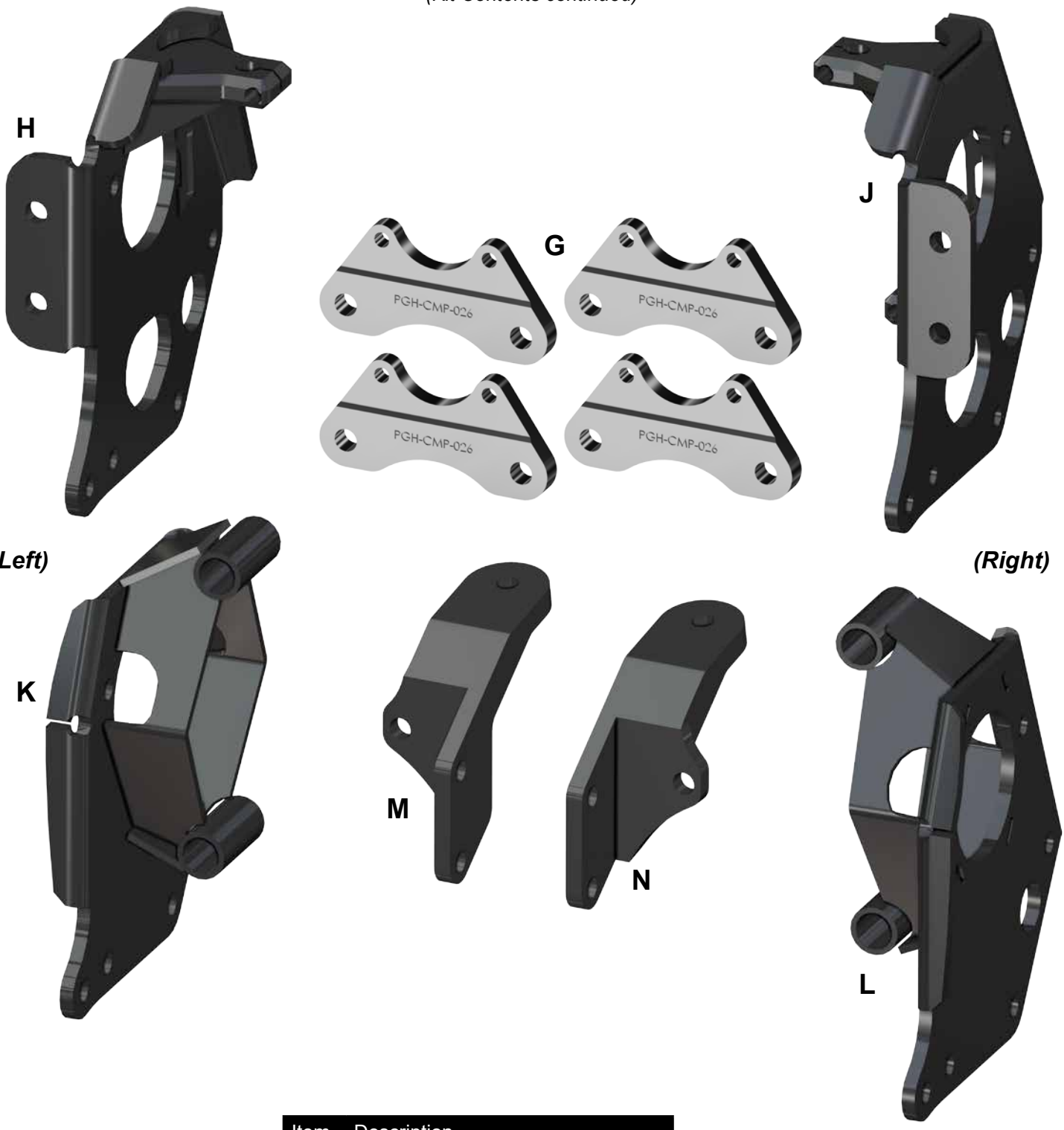
Read instructions and view illustrations before beginning.

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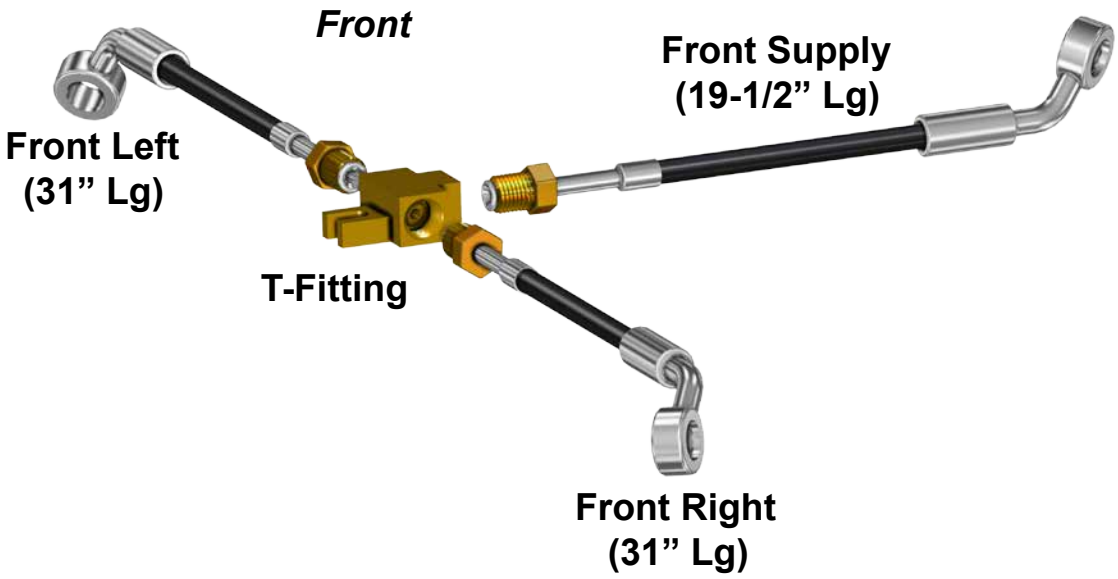
Rev IN-PGH-5-40-301 10/27/2021

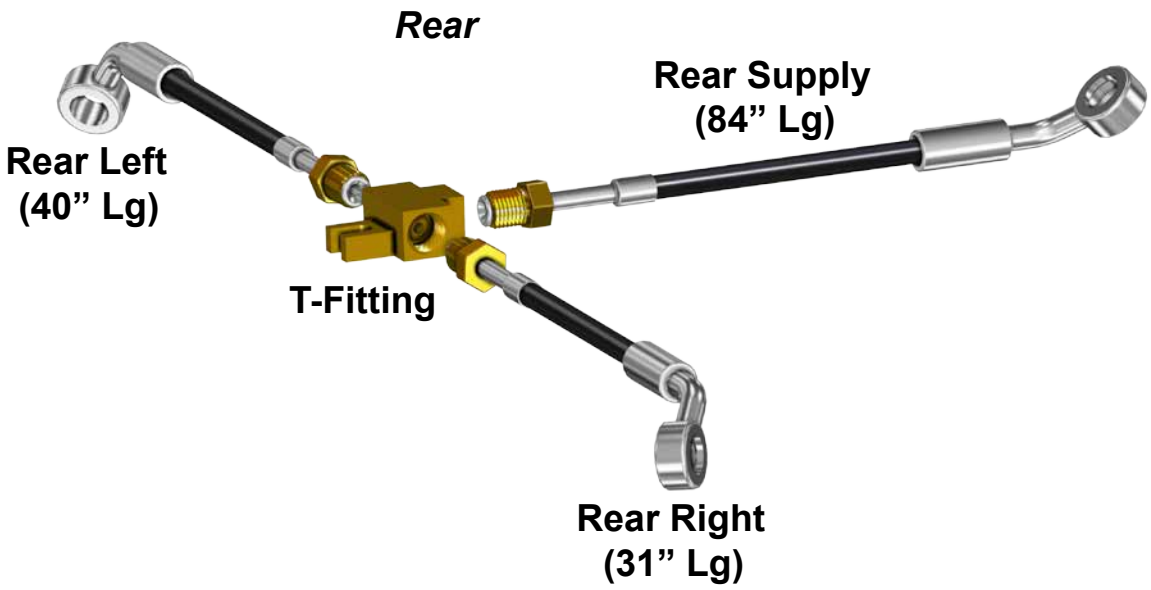
(Kit Contents continued)



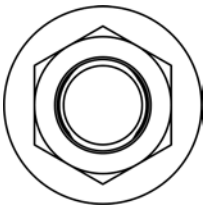
Item	Description
G	Caliper Mounting Bracket x 4
H	Left Spindle
J	Right Spindle
K	Left Bearing Carrier
L	Right Bearing Carrier
M	Left Steering Arm
N	Right Steering Arm

Brake Line Kit

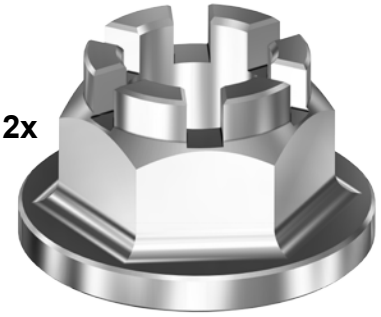




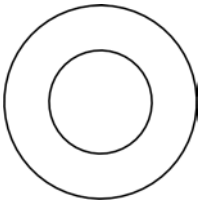
Front Hardware Kit

12x  M12 Nylock Nut

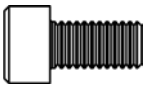
Threadlock, 2mL

2x 

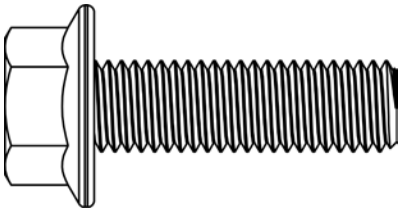
Castle Nut

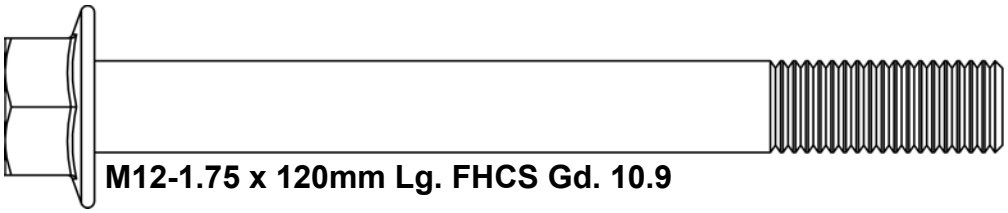
2x  M12 Narrow Washer

2x  Cotter Pin

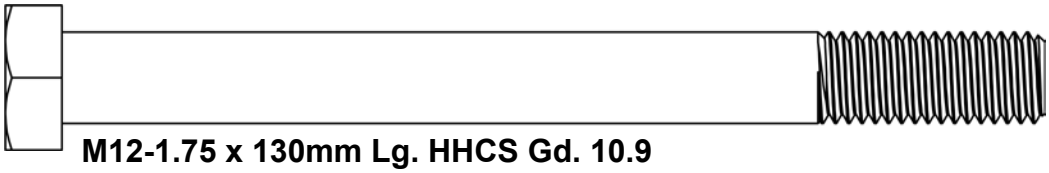
6x  M6-1.0 x 12mm Lg. SHCS

4x  Drain Plug

4x  M12-1.50 x 40mm Lg. FHCS

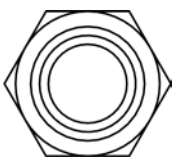
6x 

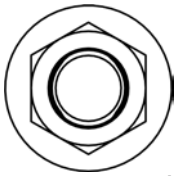
M12-1.75 x 120mm Lg. FHCS Gd. 10.9

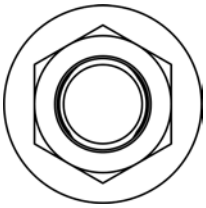
2x 

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.

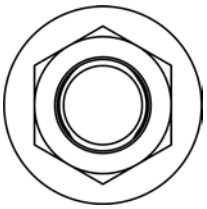
 M12 Nylock Nut

 M10 Nylock Nut

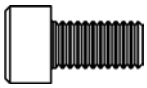
 M12 Nylock Nut

(Qty. 2 each)

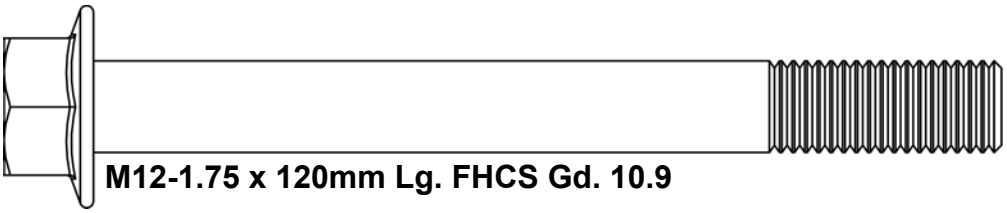
Rear Hardware Kit

8x  M12 Nylock Nut

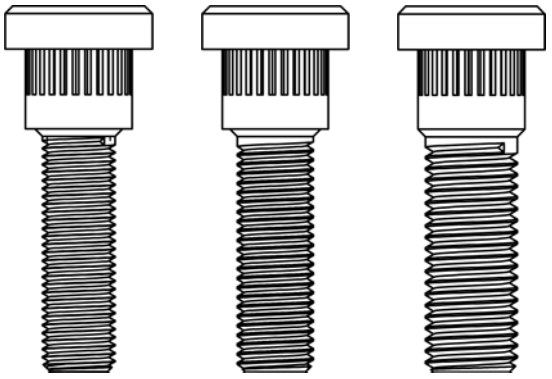
2x  Cotter Pin

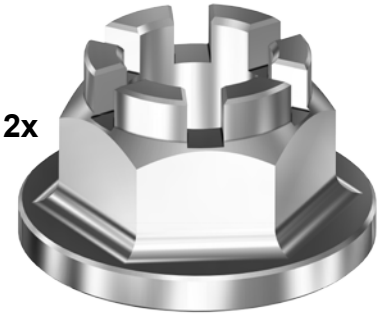
6x  M6-1.0 x 12mm Lg. SHCS

4x  Drain Plug

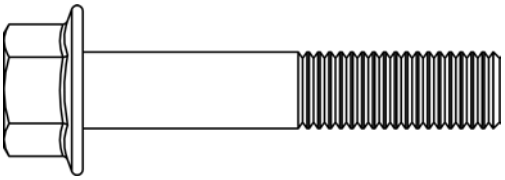
8x 
M12-1.75 x 120mm Lg. FHCS Gd. 10.9

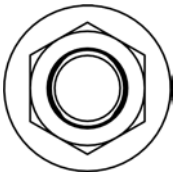
Wheel Stud Kit (16 each)

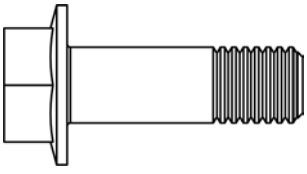


2x 
Castle Nut

Accessory Hardware Kit

2x  M10-1.25 x 55mm Lg. FHCS

2x  M10-1.25 Nylock Nut

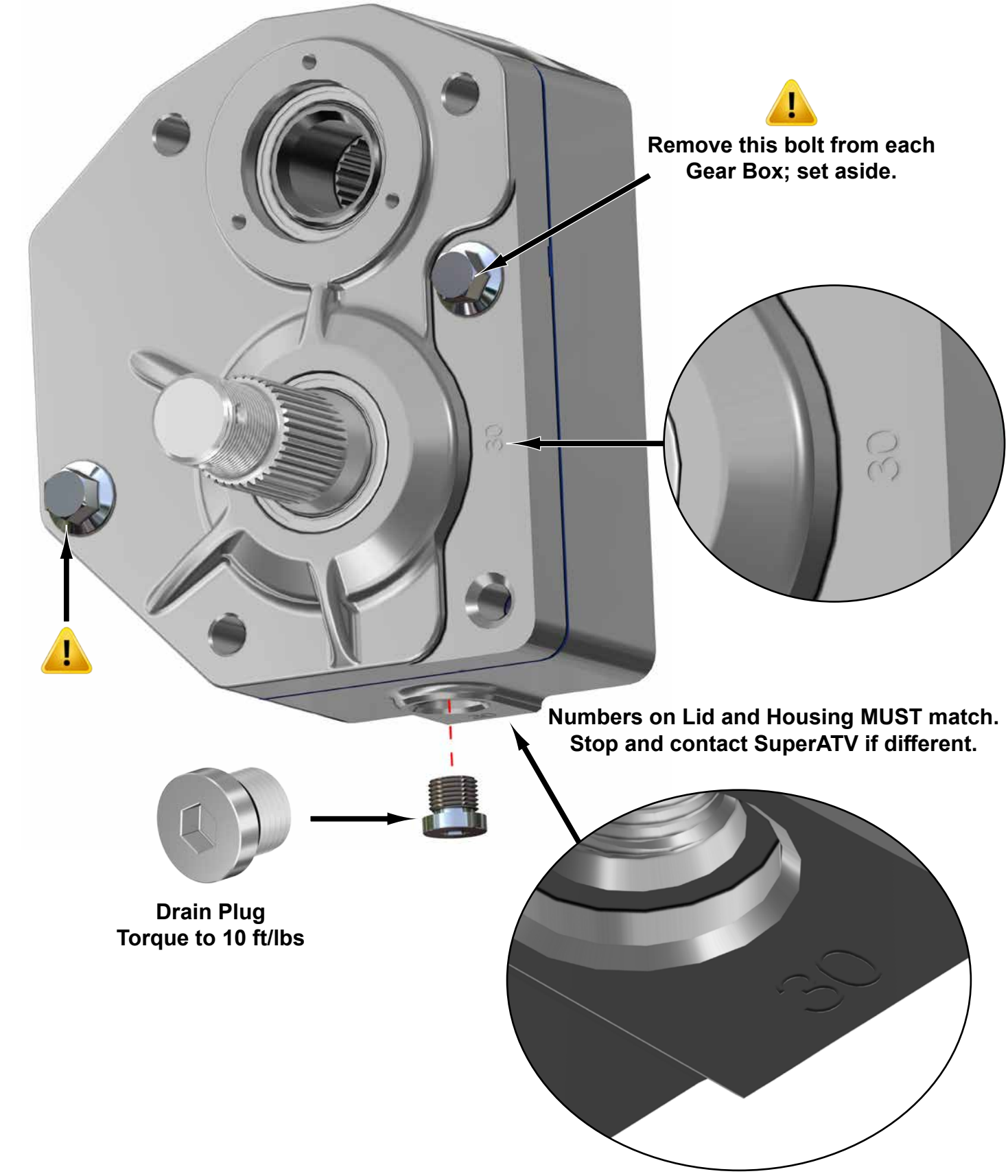
2x  M10-1.50 x 31mm Lg. FHCS

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®.

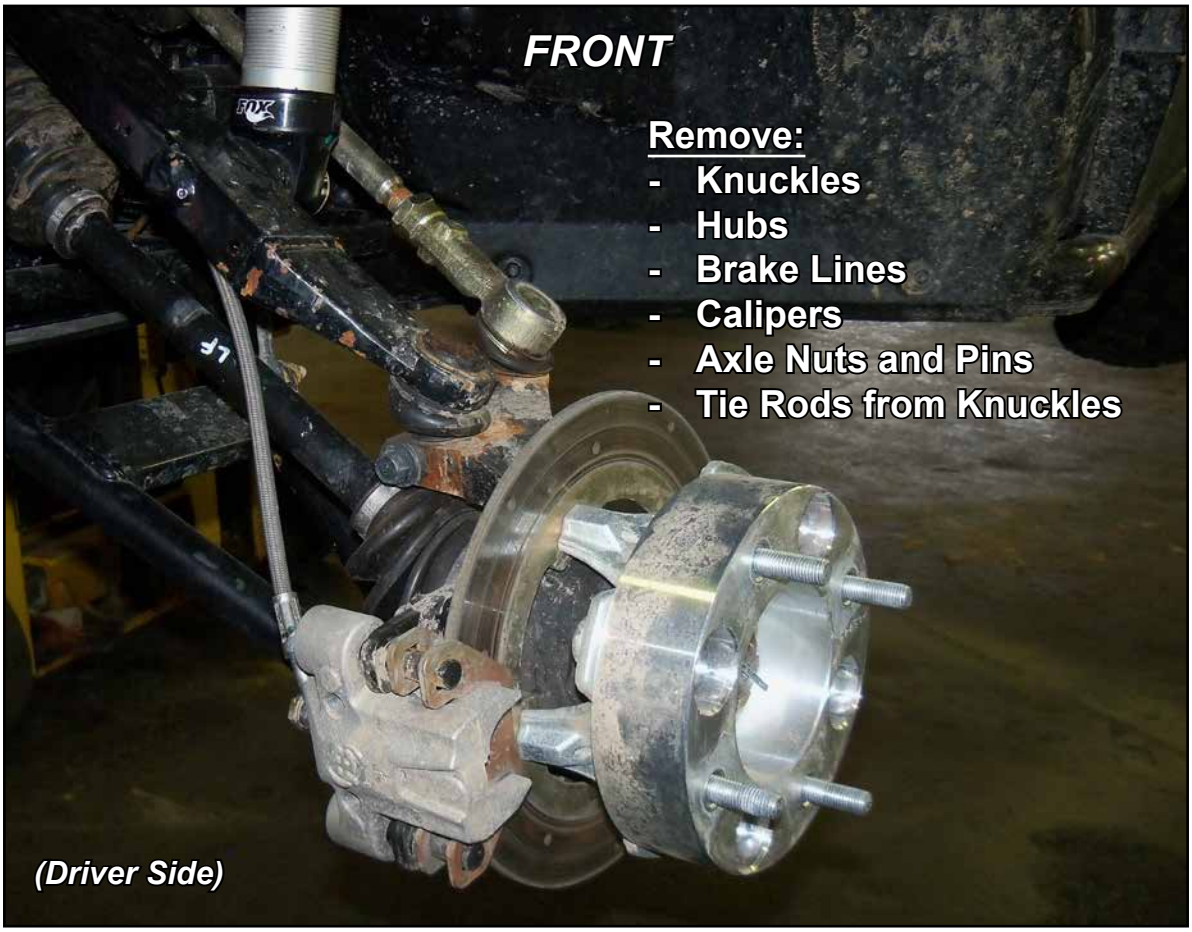
In the event of the resale of any of the goods, in whatever form, Resellers/Buyers will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such sale:
The manufacturer makes no warranties or representations, express or implied, by operation 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.

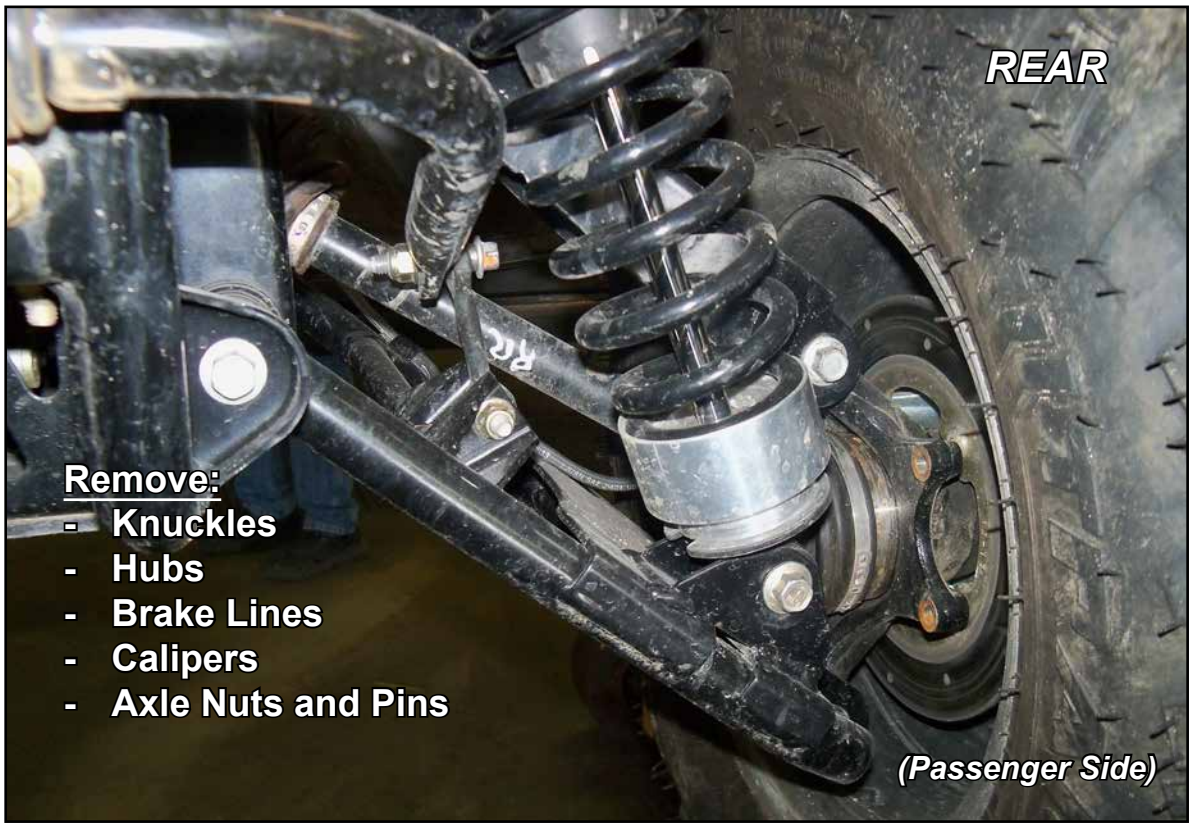
When installing or removing hardware shown DO NOT USE IMPACT WRENCH.
Torque to 60 ft/lbs MAX



DO NOT USE IMPACT WRENCH WHEN INSTALLING ANY HARDWARE INTO HOUSING

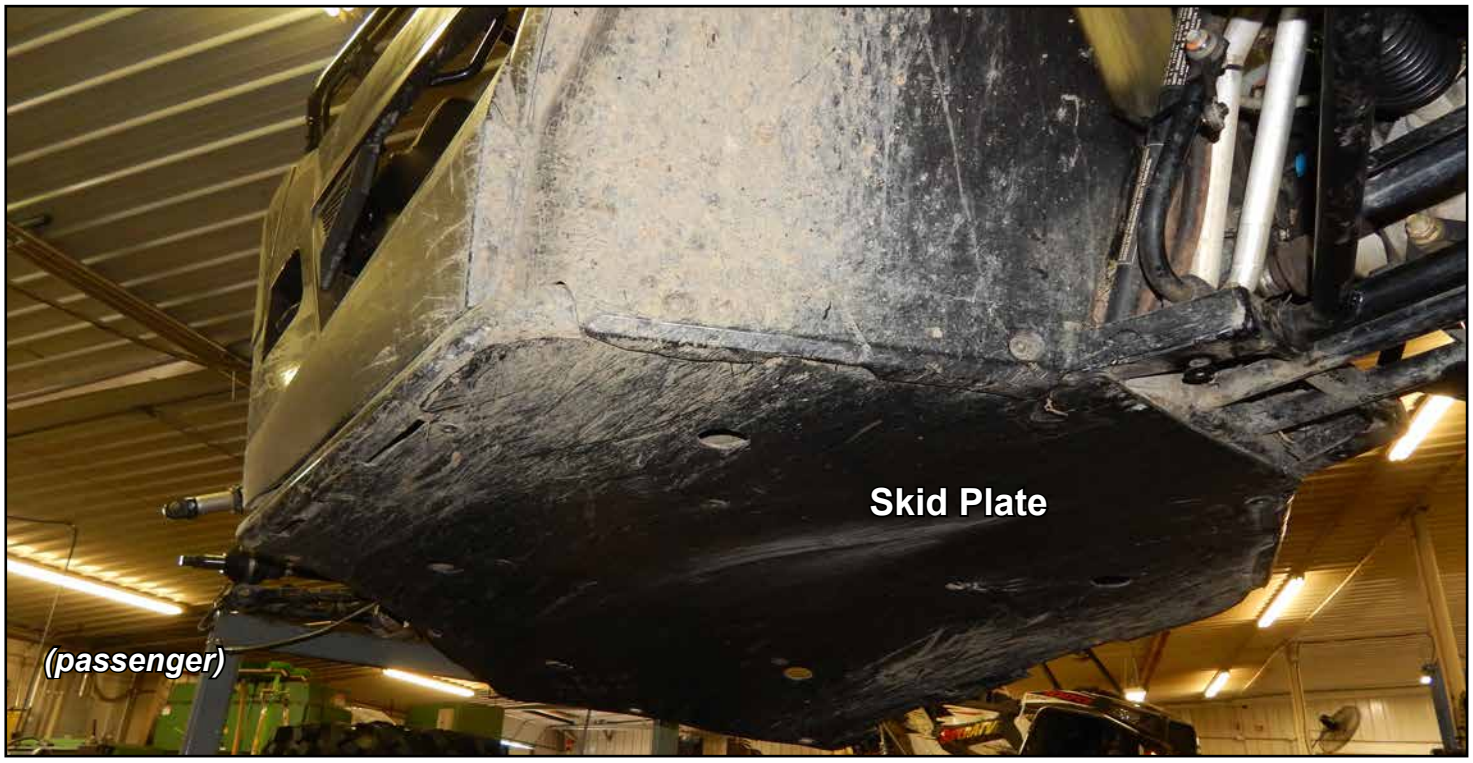
Remove Components from each side: *Keep all components removed from machine.*

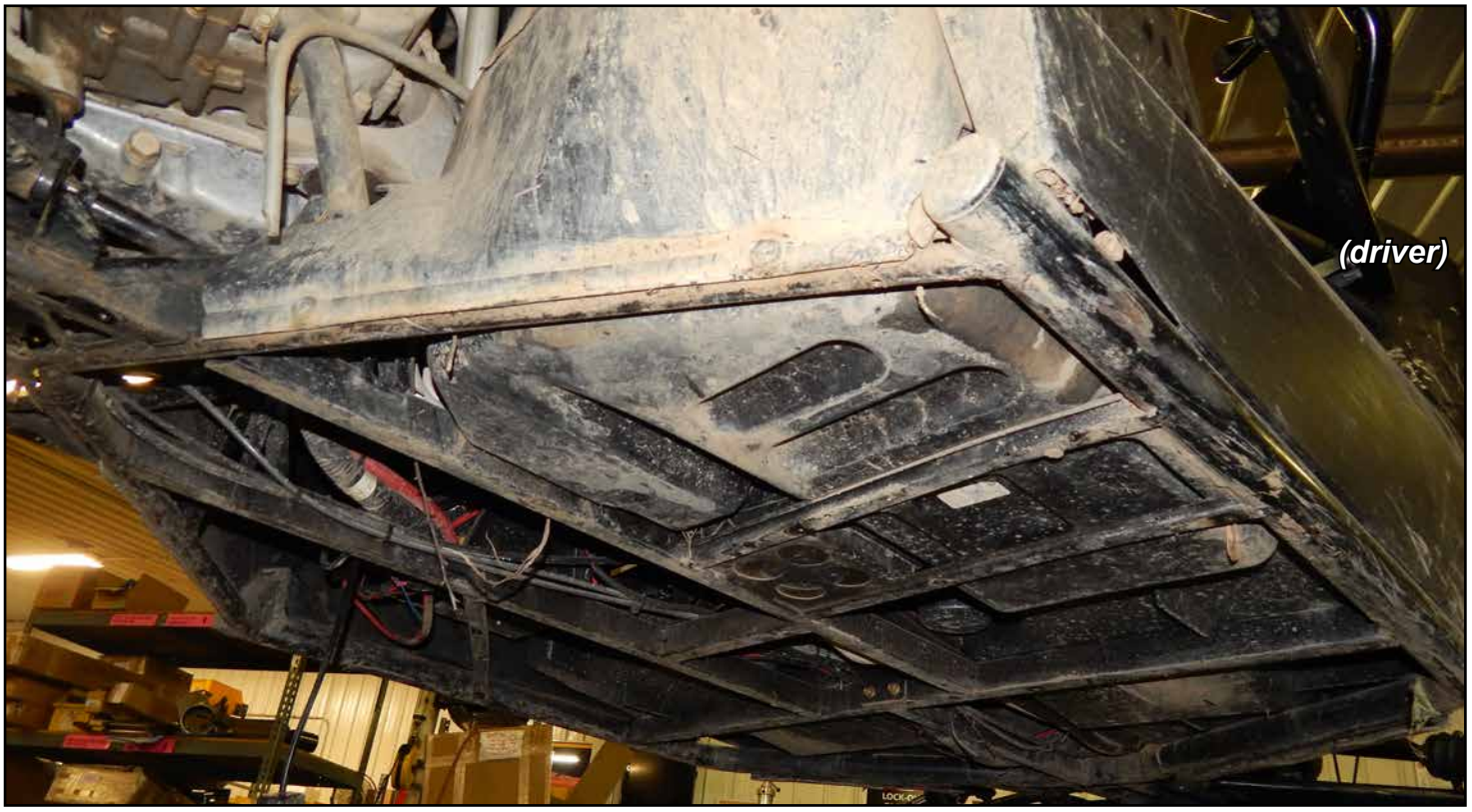




Install PGH-5-40-FS Frame Stiffener at this time.

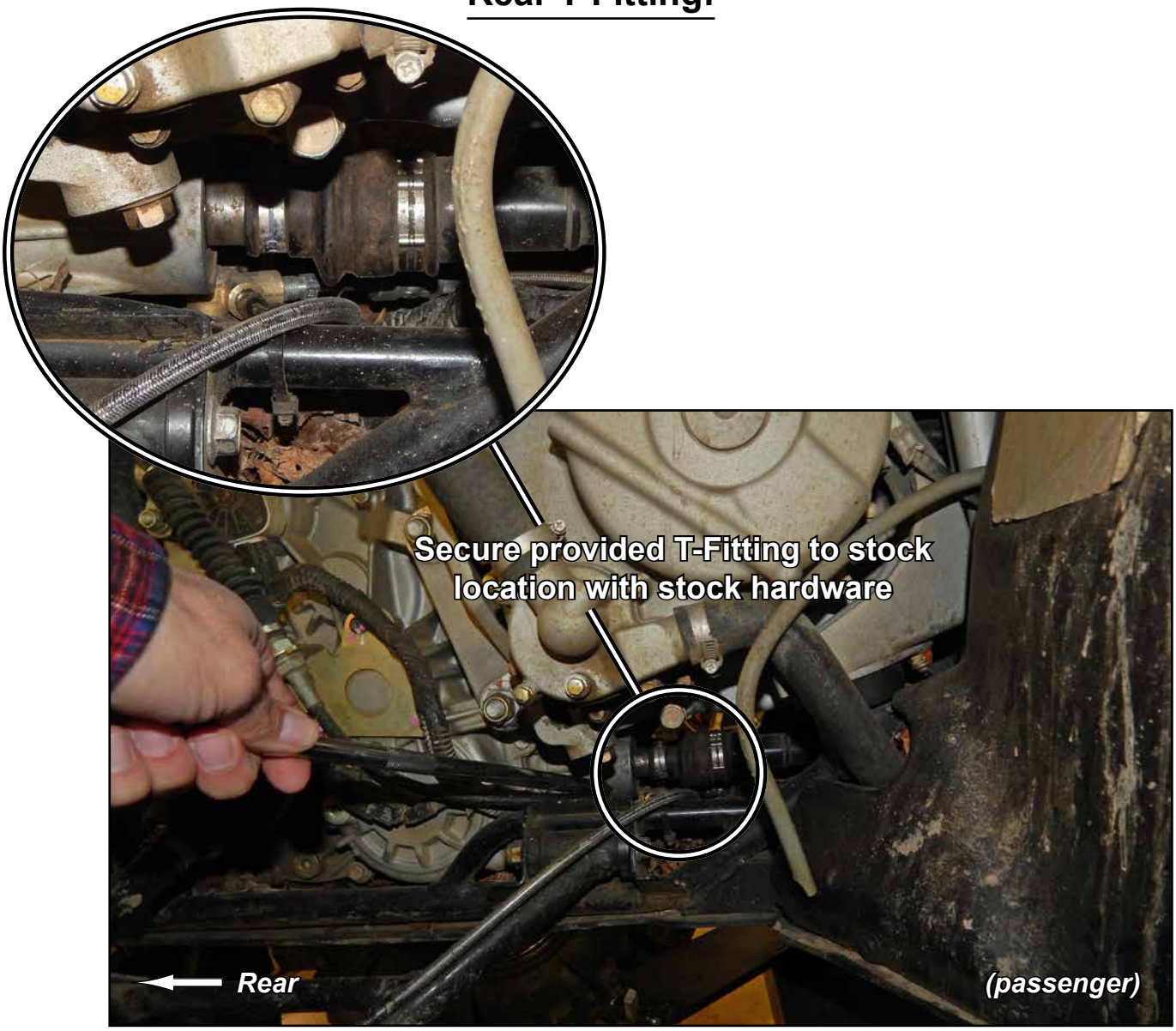
Skid Plate must be removed to install provided Rear Supply Line.





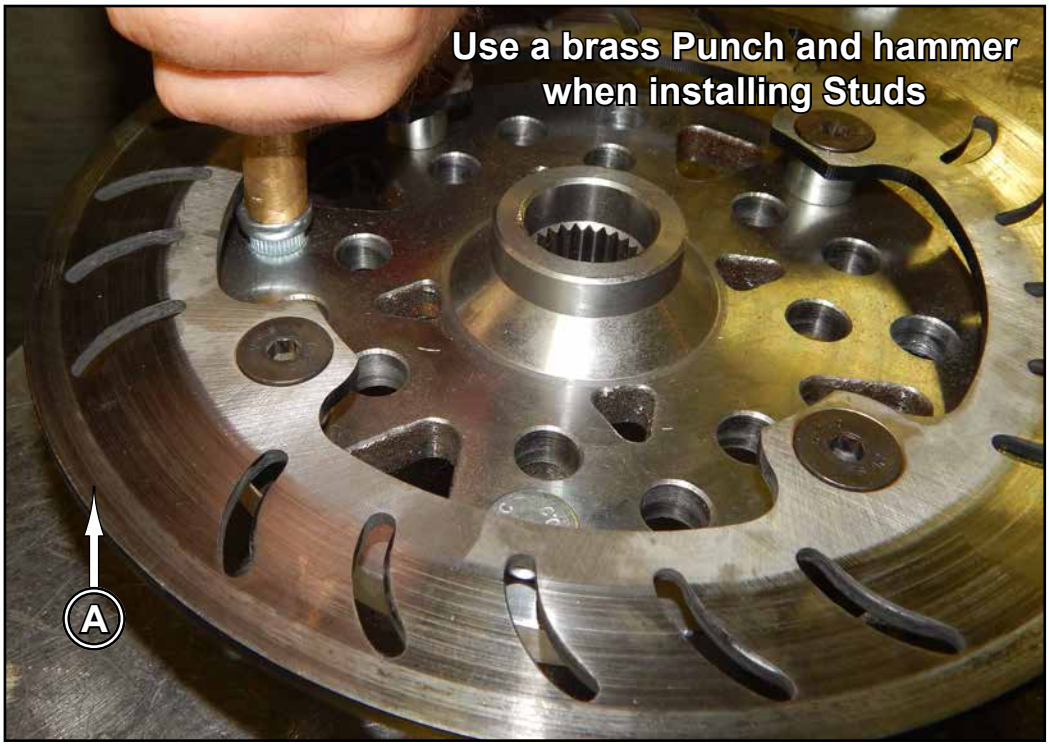
- Install provided 84” lg. Rear Supply Line. Follow stock Brake Line routing.
- Ensure that no binding occurs after line has been installed and secured.

Rear T-Fitting:



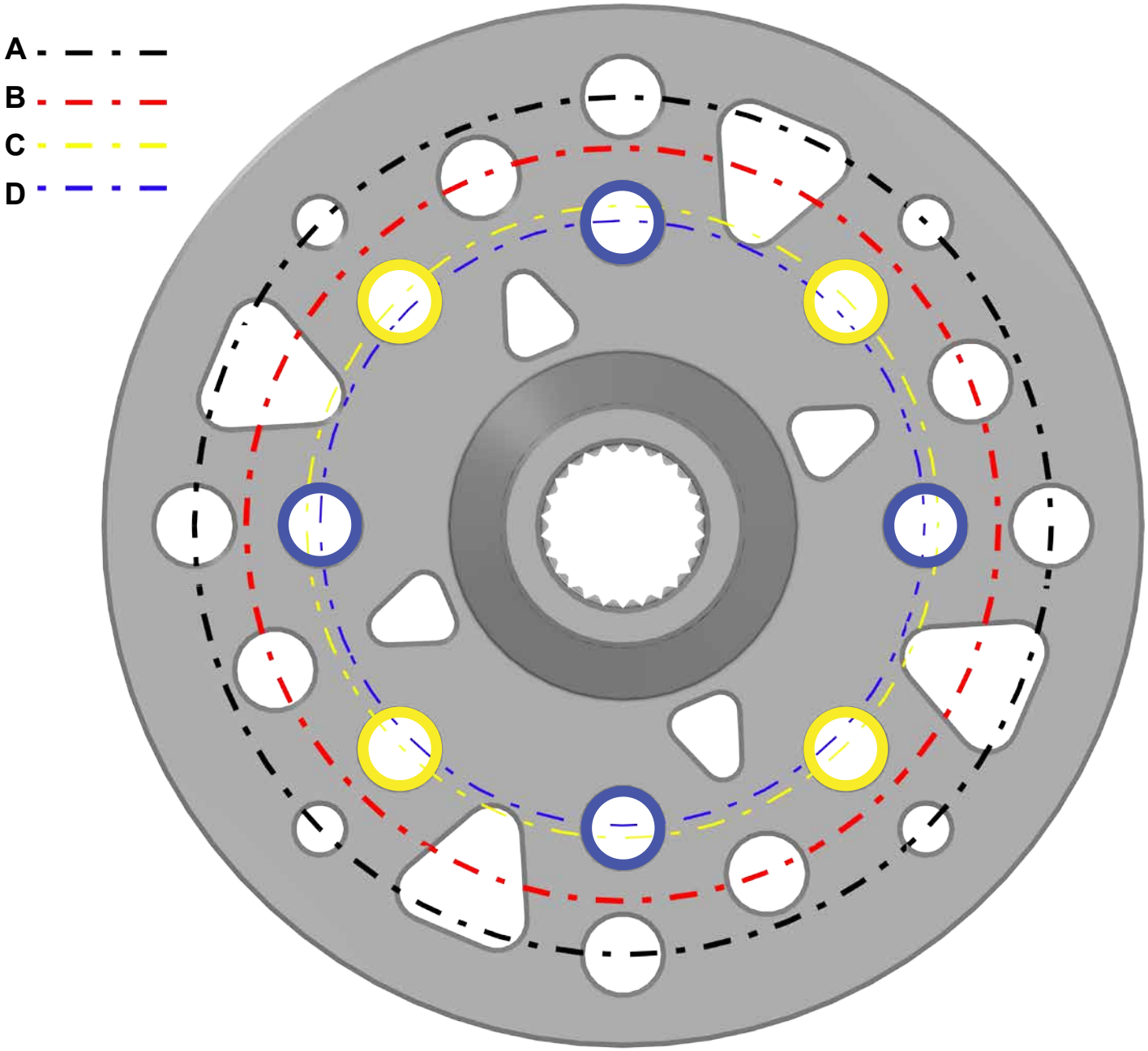
Install provided Studs into Rotors (A):
- See “Wheel Hub Bolt Patterns”.
- Note machines bolt pattern and lug size.
- Set Rotors (A) aside when complete.







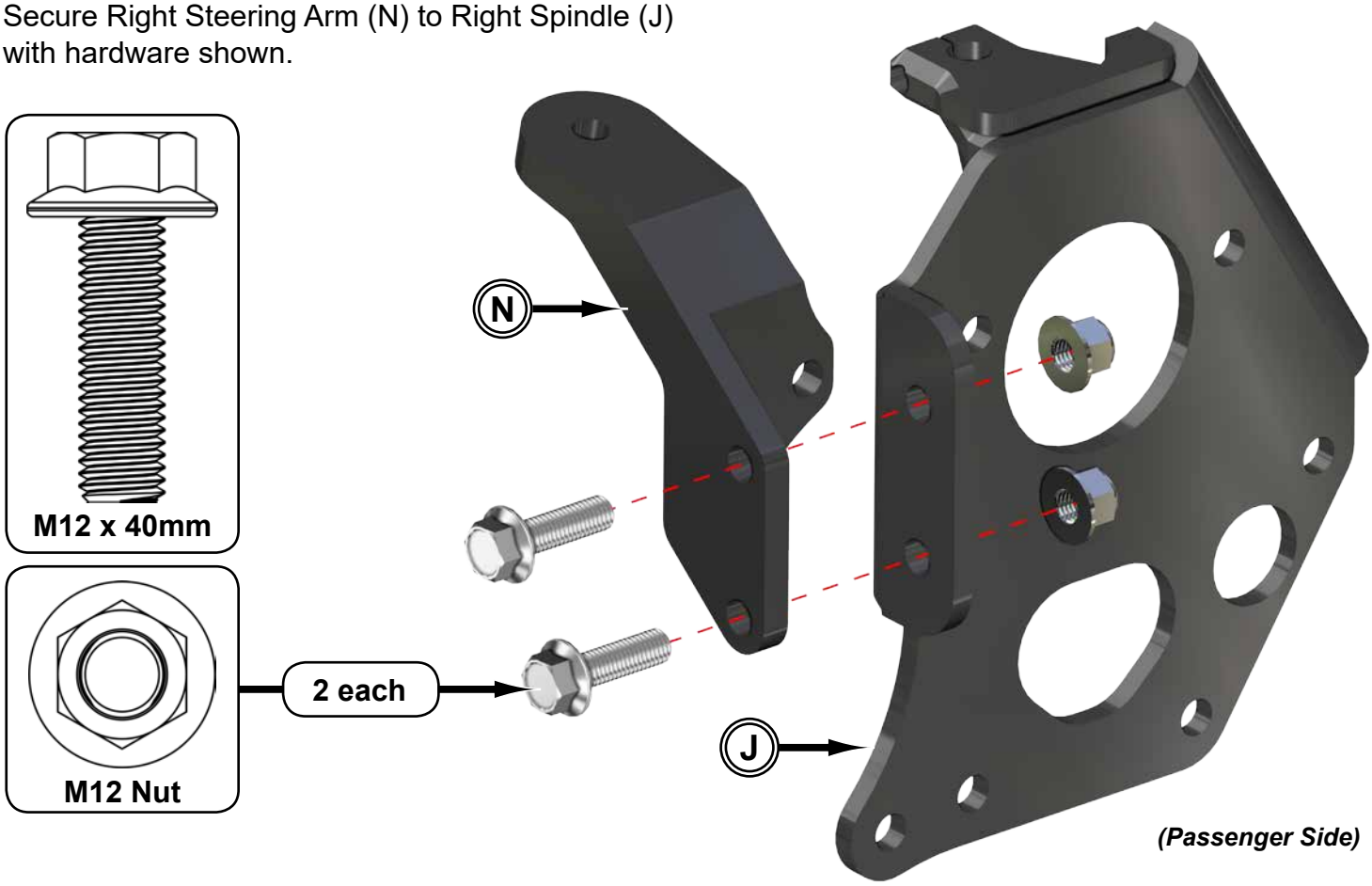
Wheel Hub Bolt Patterns



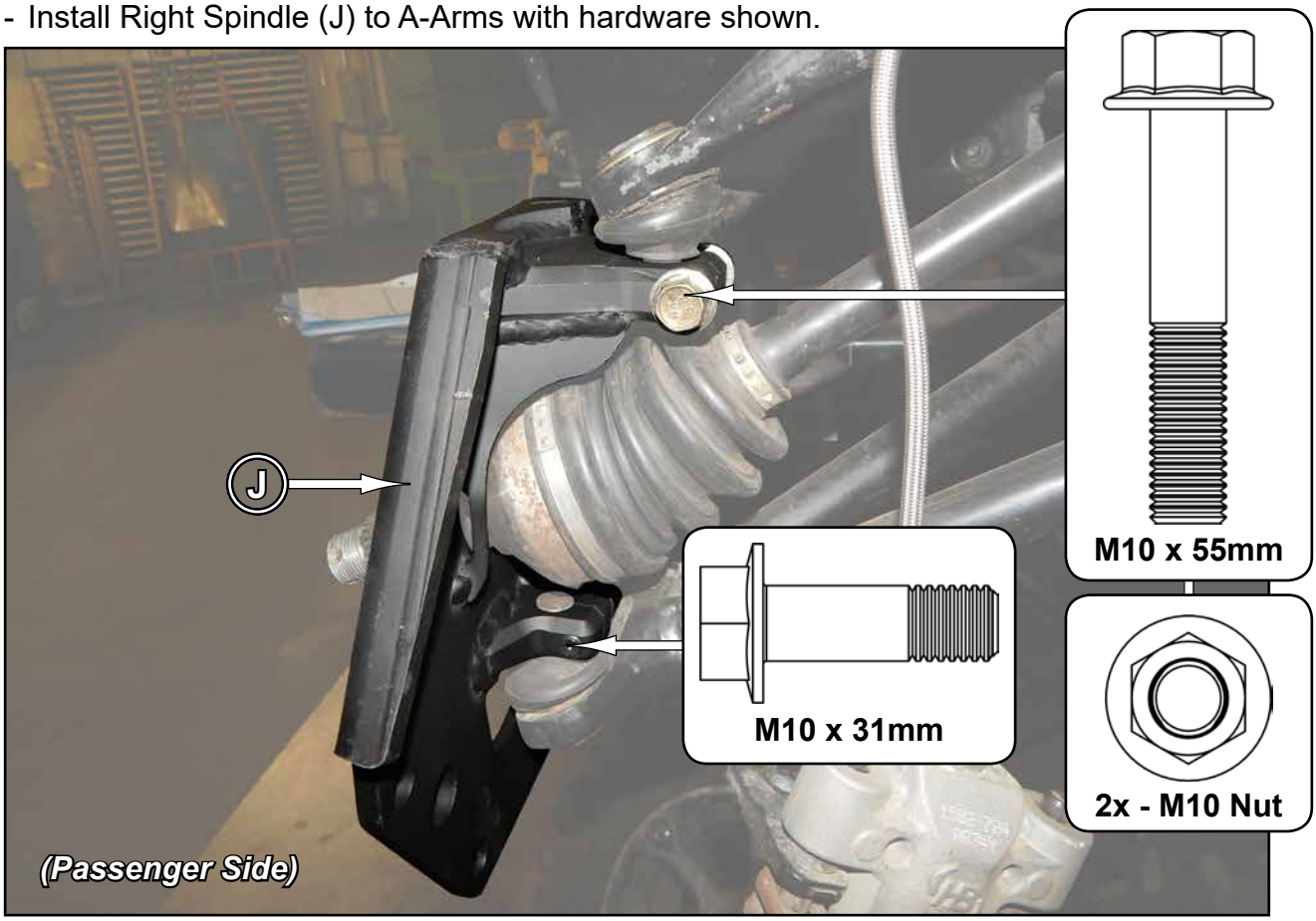
Pattern	Machine	Diameter
A	Polaris	156mm
B	Can-Am/Teryx4	137mm
C	Arctic Cat	115mm
D	Honda/Yamaha	110mm

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

- Secure Right Steering Arm (N) to Right Spindle (J) with hardware shown.

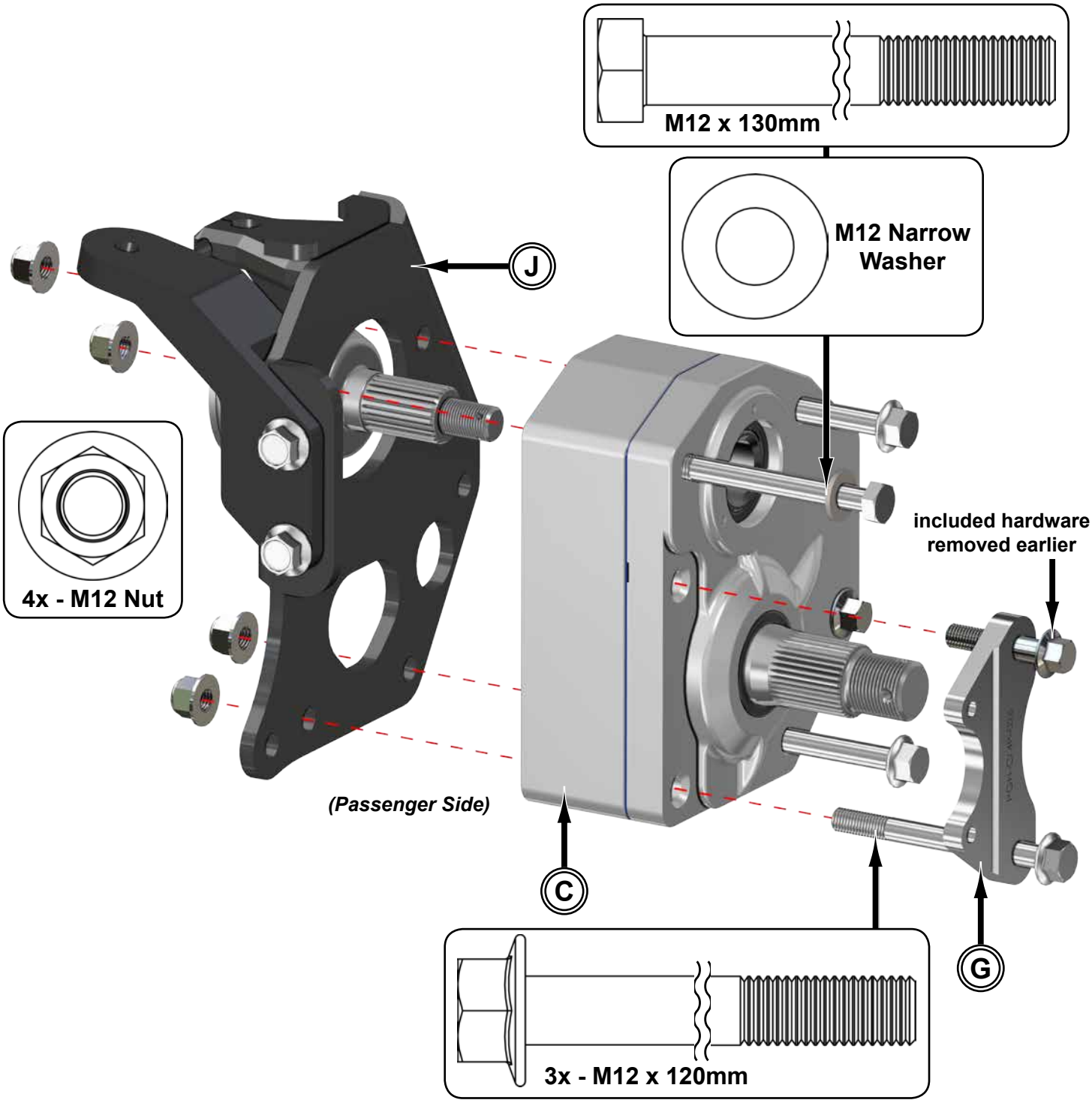


- Install Right Spindle (J) to A-Arms with hardware shown.



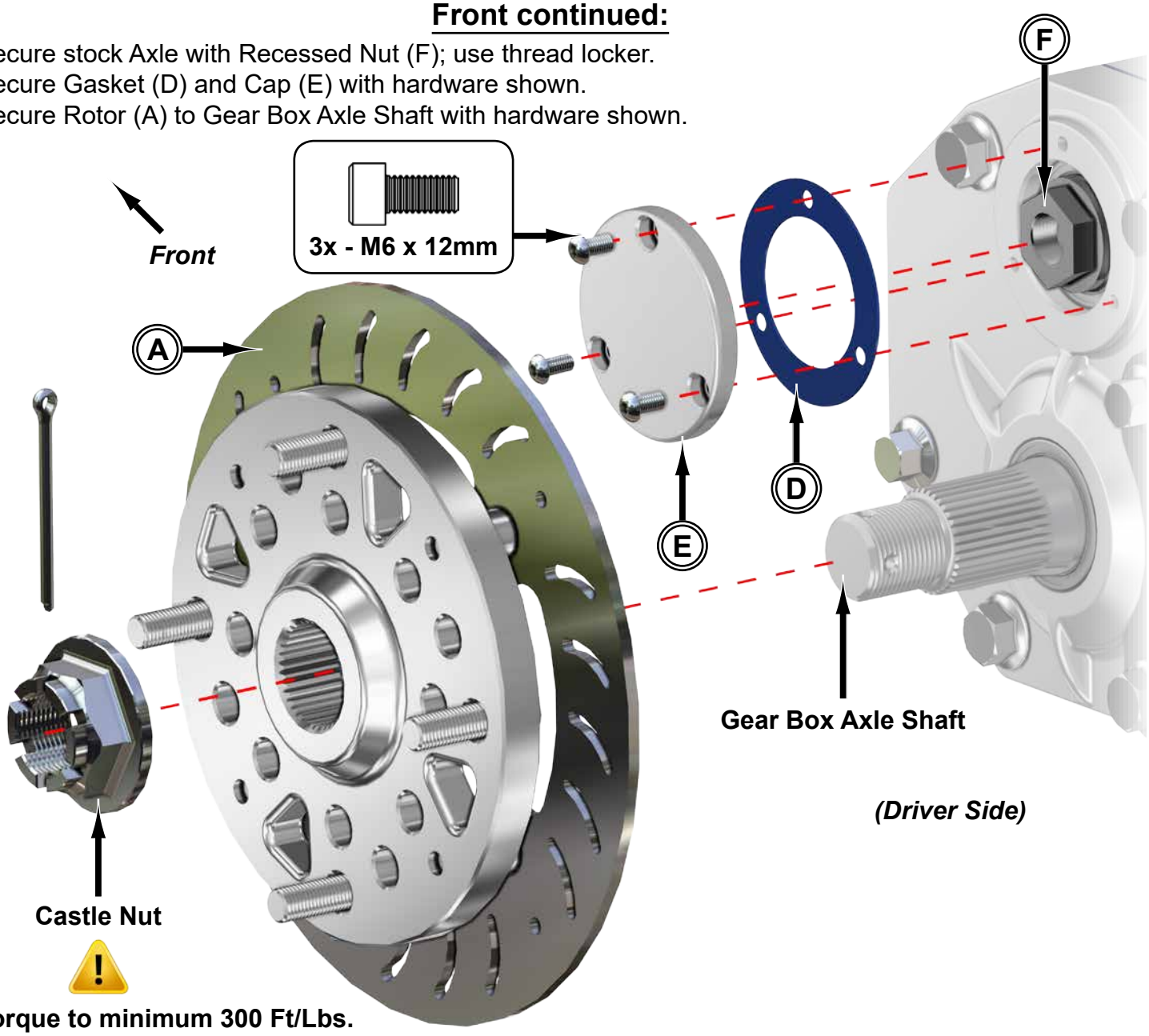
Front continued:

- Install Right Gear Box (C) onto stock Axle.
- Secure Right Gear Box (C) and Caliper Mounting Bracket (G) to Right Spindle (J) with hardware shown.



Front continued:

- Secure stock Axle with 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.**

- Secure Tie Rod to Right Steering Arm (N) with stock hardware.



STOP

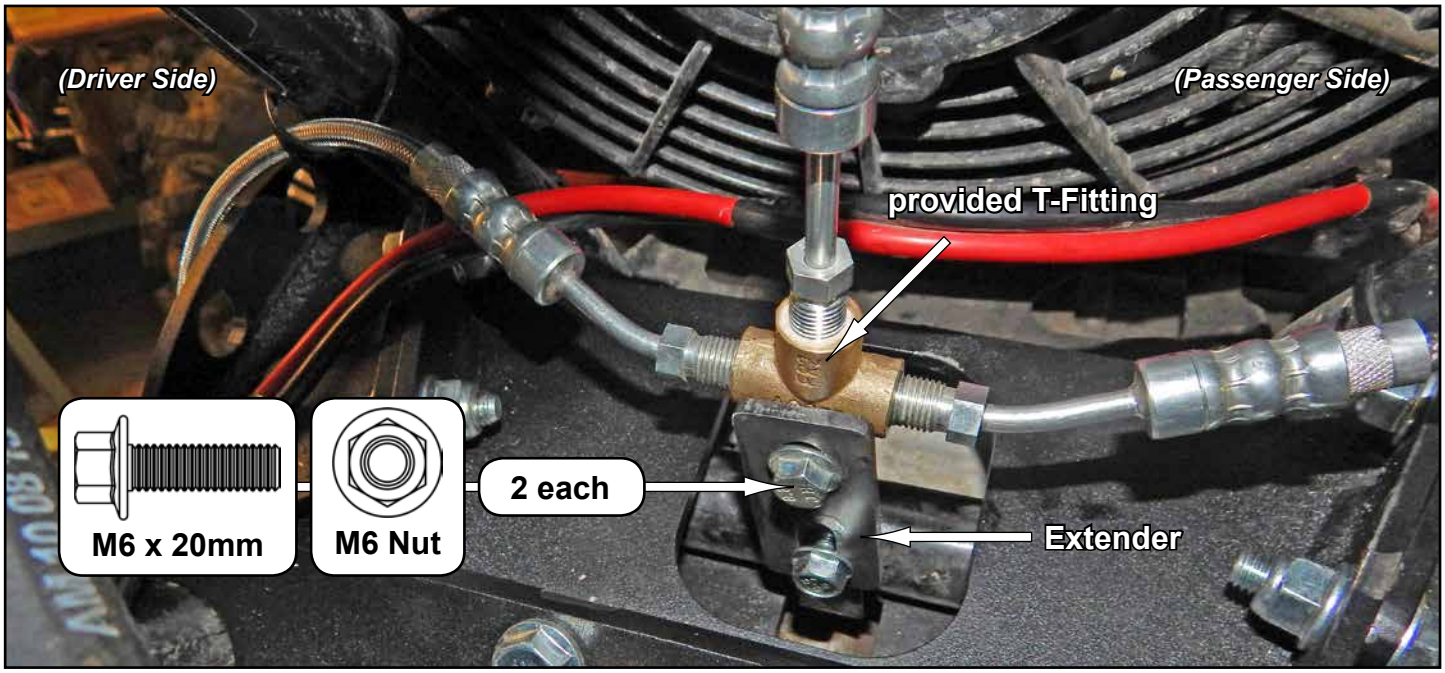
If machine has SuperATV Heavy Duty Tie Rod Ends see "Front Hardware Kit" for correct hardware.

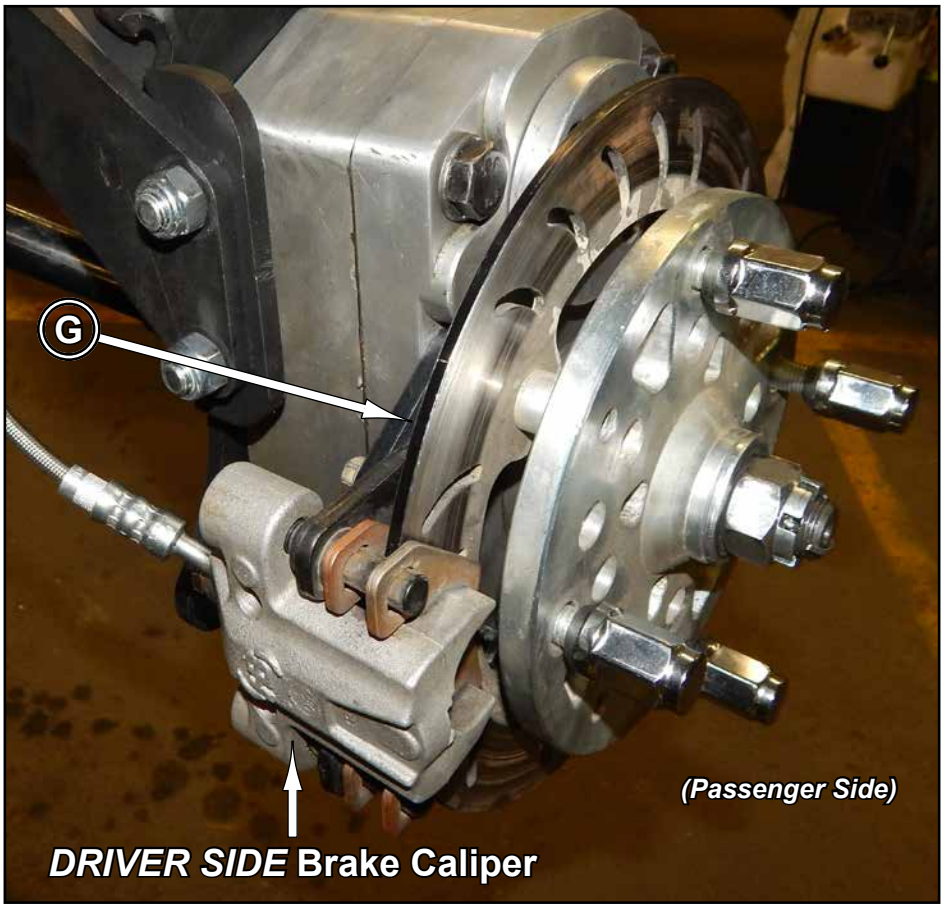
Tighten all hardware completely and repeat steps for opposite side.

Front continued:

Calipers must be swapped: right to left - left to right

- Secure Rotor (A) to Gear Box Axle Shaft with hardware shown.
- Install stock Caliper to Caliper Mounting Bracket (G) with stock hardware.
- Install Extender (from Frame Stiffener Kit) with hardware shown.
- Install supplied Front Supply Line and Brake Lines.
- Ensure that no binding occurs after Brake Lines have been installed and secured.

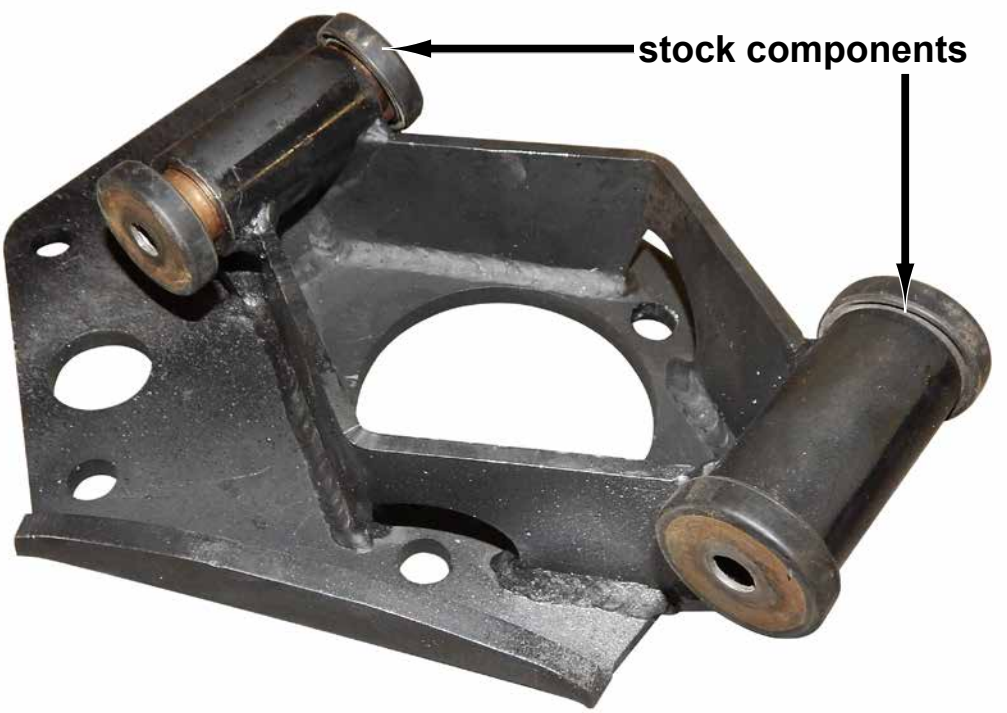




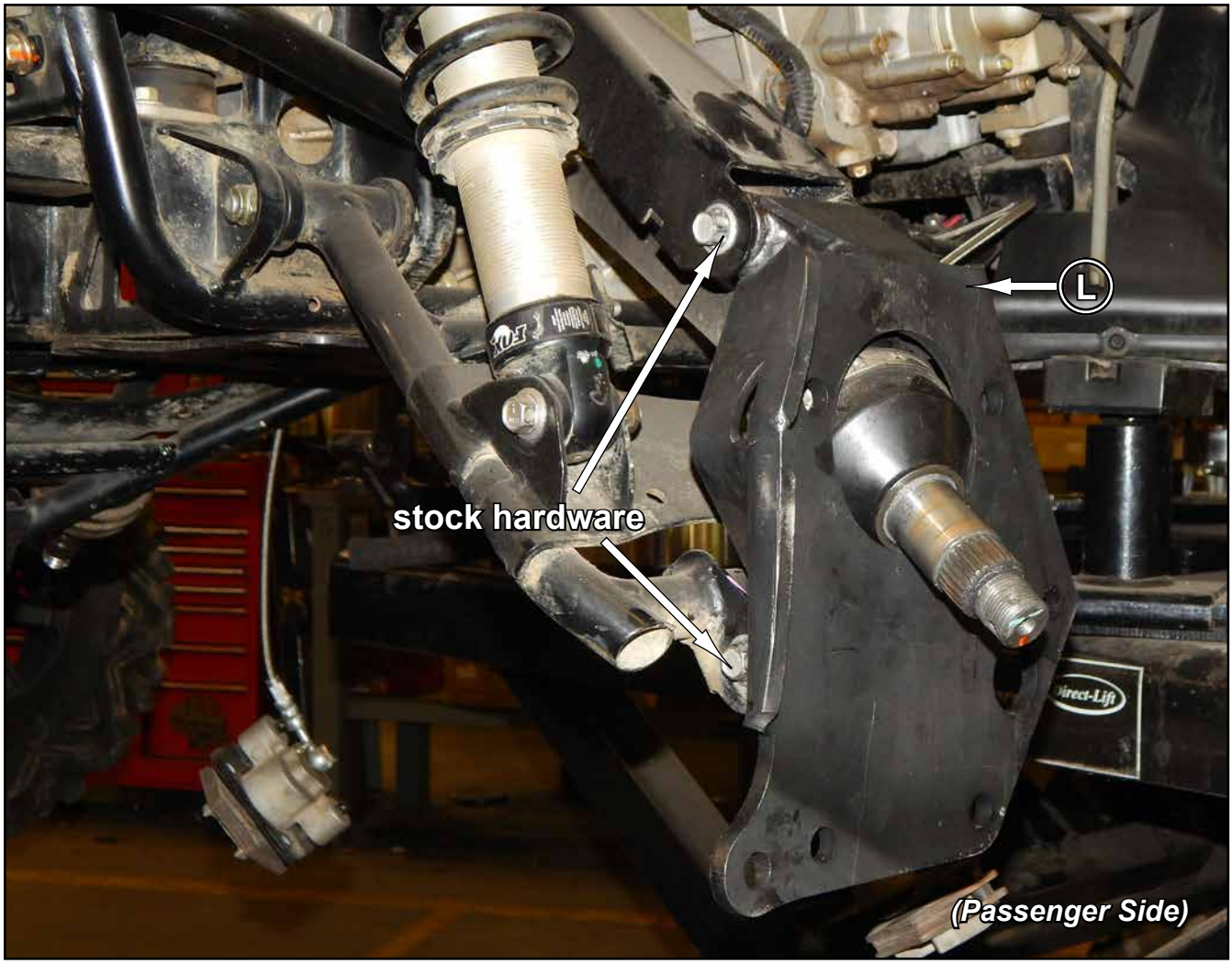
Tighten all hardware completely.

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

- Install stock Sleeves and Bushings into Bearing Carriers.

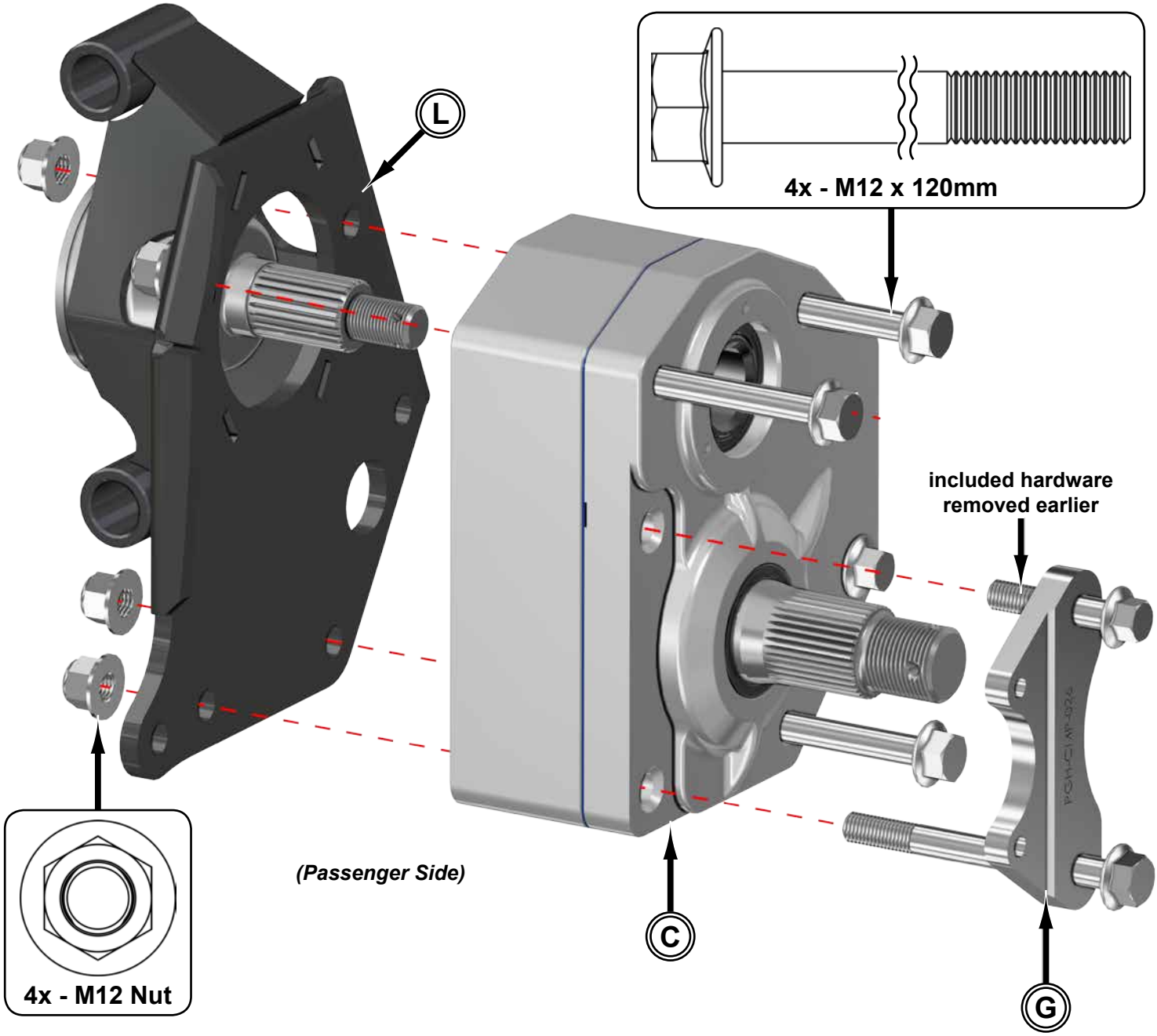


- Install Right Bearing Carrier (L) to rear A-Arms with stock harrdware.



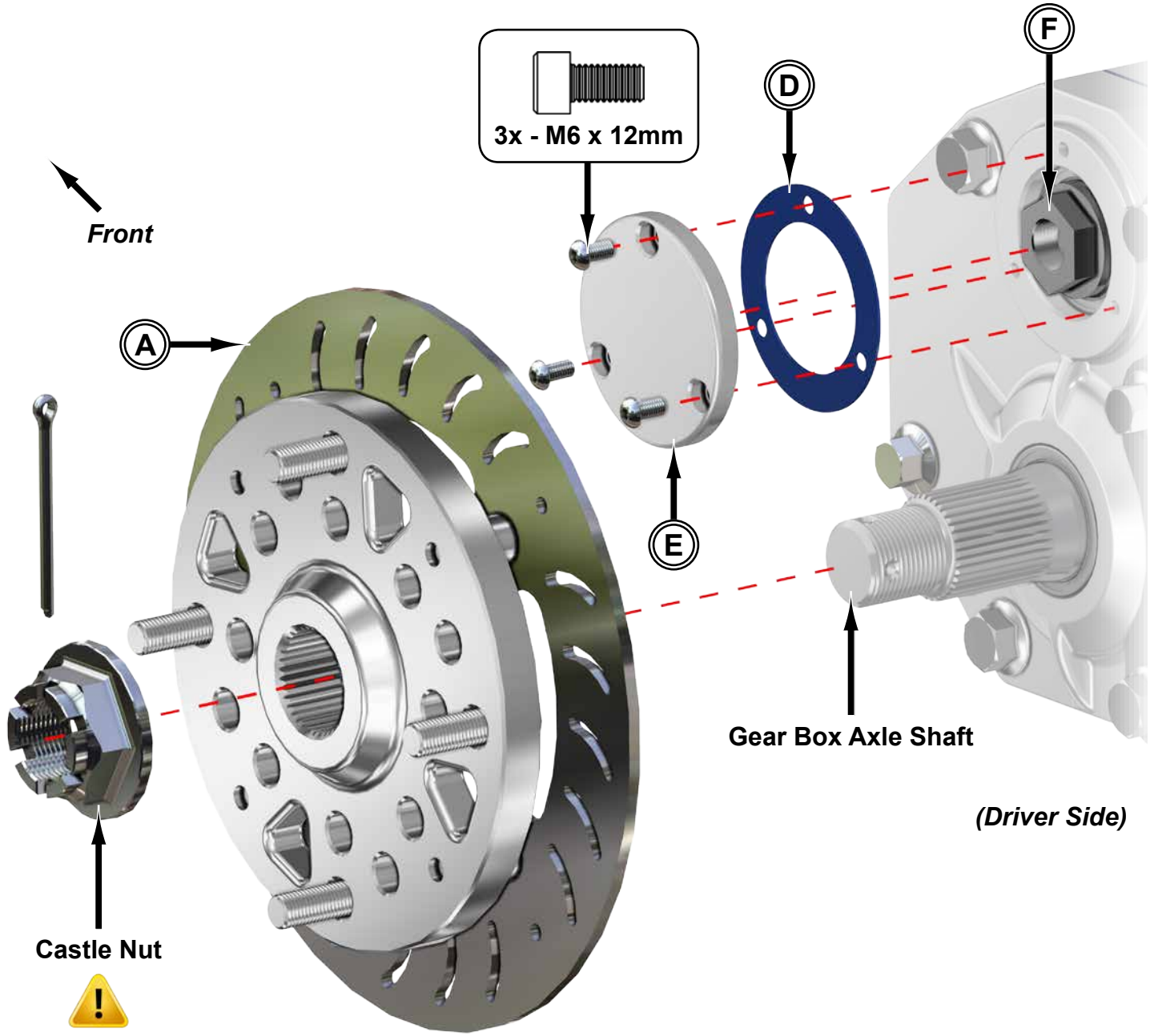
Rear continued:

- Install Right Gear Box (C) onto stock Axle.
- Secure Right Gear Box (C) to Right Bearing Carrier (L) with hardware shown.
- Install Caliper Mounting Bracket (G) to Right Gear Box (C) with hardware shown.



Rear continued:

- Secure stock Axle with Recessed Nut (F); 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.**

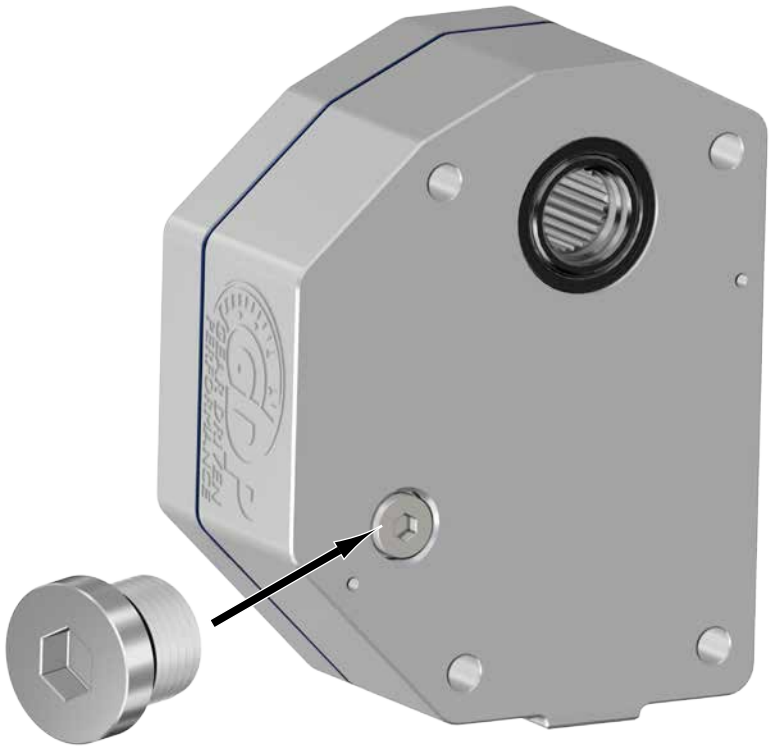
Tighten all hardware completely and repeat steps for opposite side.

Rear continued:

Calipers must be swapped: right to left - left to right

- Install stock Calipers to Caliper Mounting Brackets (G) with stock hardware.
- Install supplied Brake Lines.
- Ensure that no binding occurs after Brake Lines have been installed and secured.

- 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

Liability Statement

SuperATV's® products are designed to best fit user's ATV/UTV under stock conditions. Adding, modifying, or fabricating any factory or aftermarket parts will void any warranty provided by SuperATV® and is not recommended. SuperATV's® products could interfere with other aftermarket accessories. If user has aftermarket products on machine, contact SuperATV® to verify that they will work together.

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.

Installing, adding, modifying, or fabricating any factory or aftermarket product to your ATV/UTV may violate certain local, state, and federal laws. Be advised that laws vary depending on town, city, county, state, etc. Use of certain products on public streets, roads, or highways may be in violation law. The Buyer is solely and exclusively legally and personally responsible for any violation of the law by the installation or use of the product. You must abide by all local, state, and federal laws, including but not limited to vehicle safety, traffic laws, and ordinances. It is your responsibility to know the laws and how they apply to you.

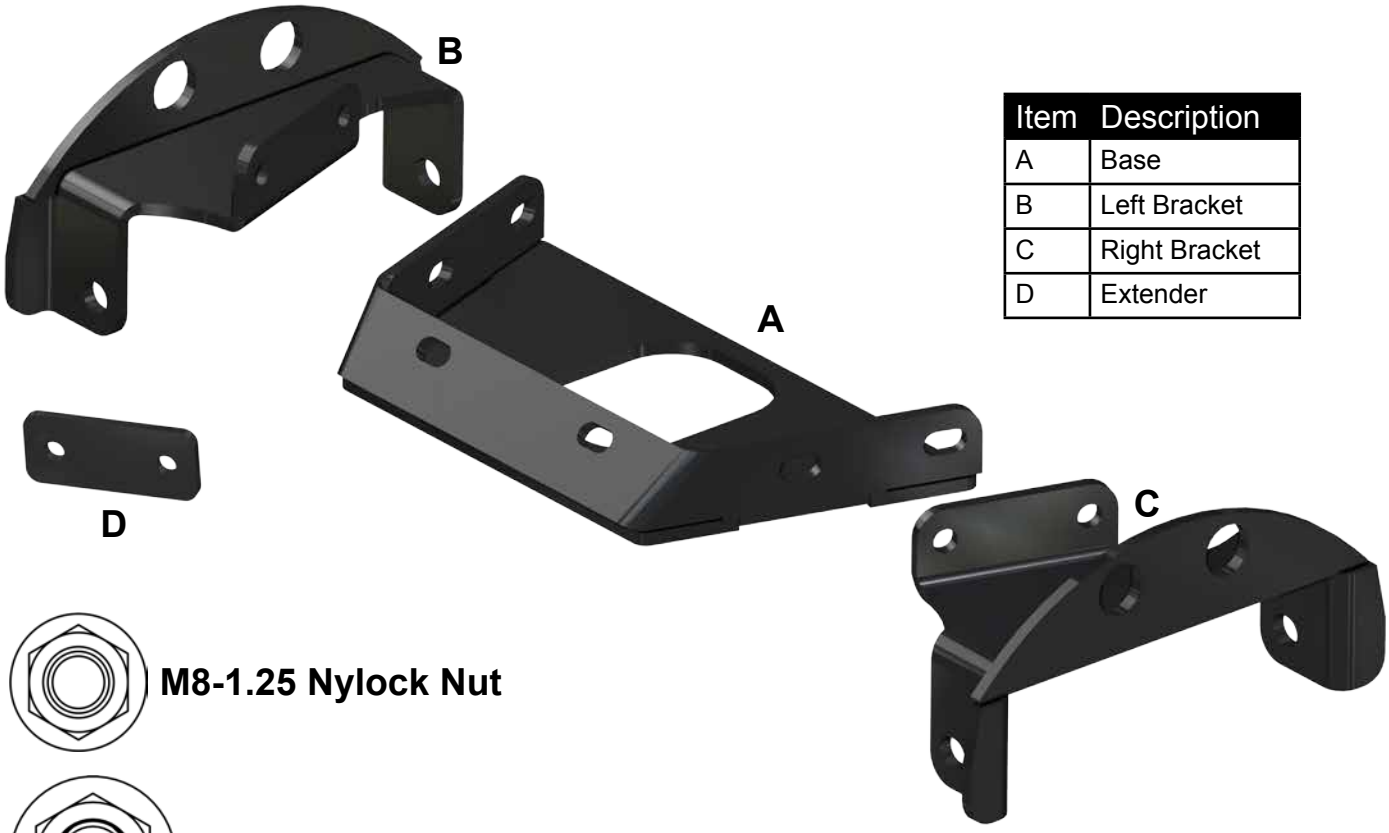
The Buyer is responsible to fully understand the capability and limitations of his/her vehicle according to manufacturer specifications, warnings and instructions and agrees to hold SuperATV® harmless from any damage resulting from failure to adhere to such specifications, warnings and/ or instructions. 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.

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INSTALLATION INSTRUCTIONS

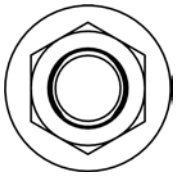
Frame Stiffener:

for Arctic Cat Trail

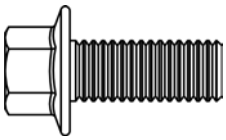


Item	Description
A	Base
B	Left Bracket
C	Right Bracket
D	Extender

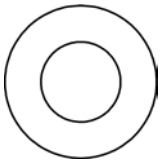
6x M8-1.25 Nylock Nut



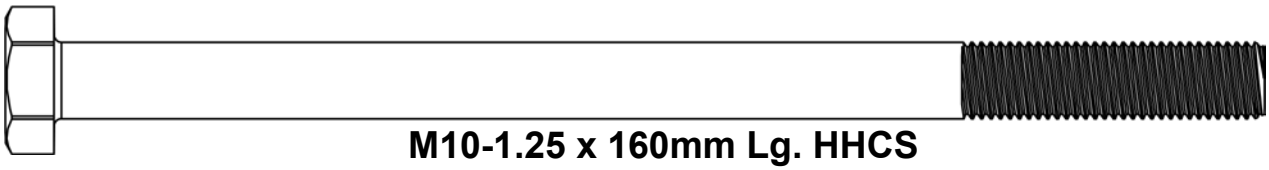
2x M10-1.25 Nylock Nut



6x M8-1.25 x 20mm Lg. FHCS



2x M10 Narrow Washer



2x M10-1.25 x 160mm Lg. HHCS

Need help with your installation?

sales@superatv.com

www.superatv.com

1-855-743-3427

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

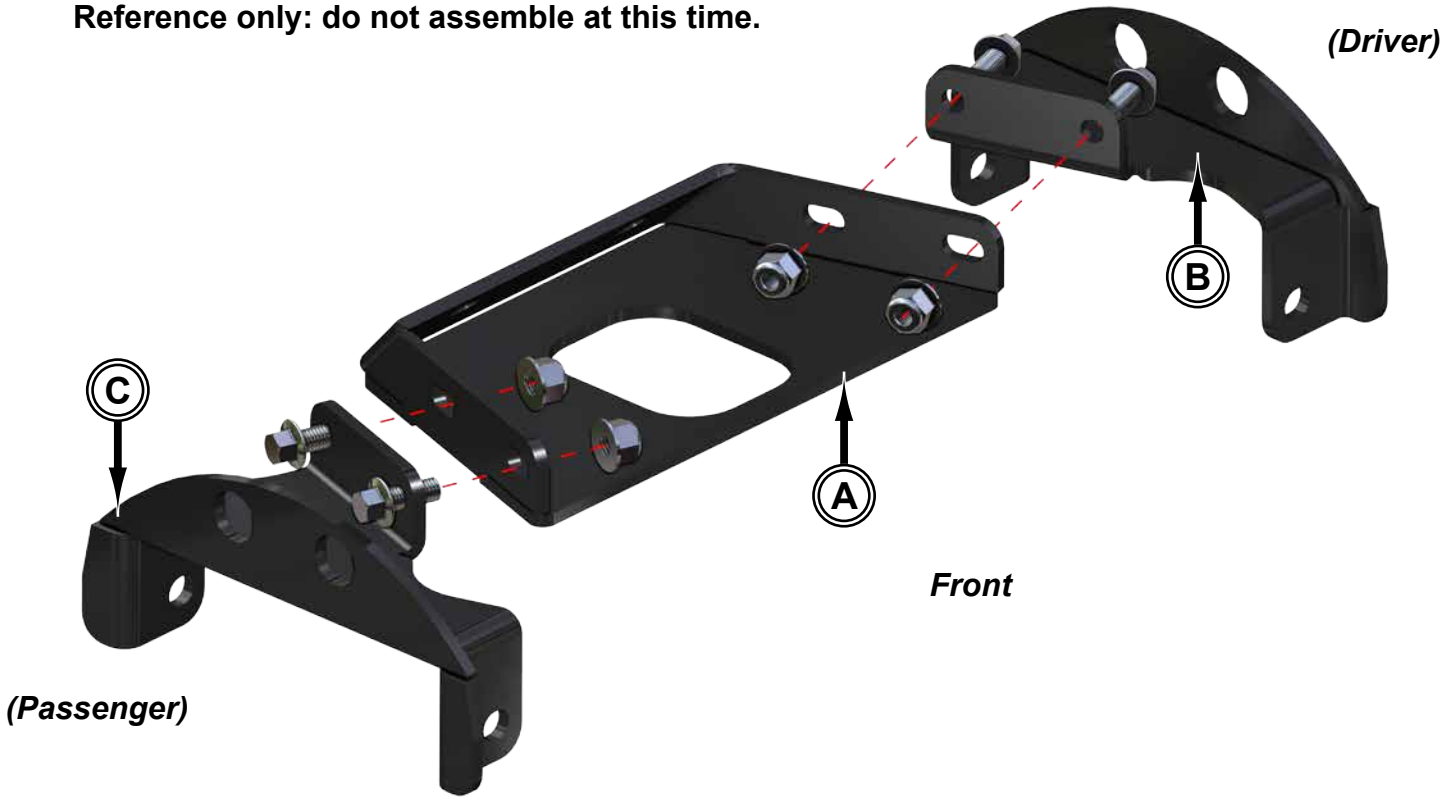
Read instructions and view illustrations before beginning.

Thank You For Choosing

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Reference only: do not assemble at this time.

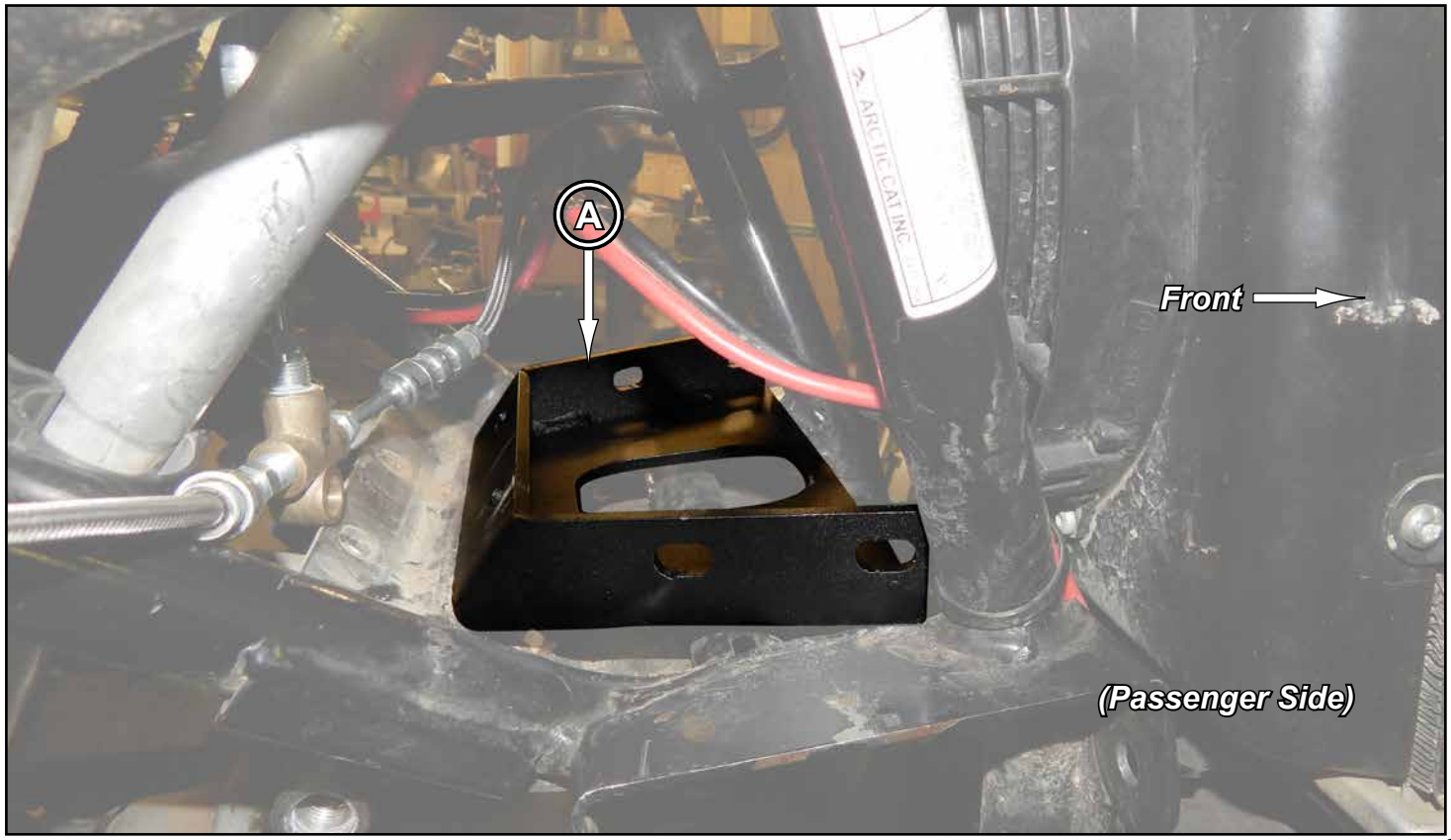


Keep all components removed from machine.

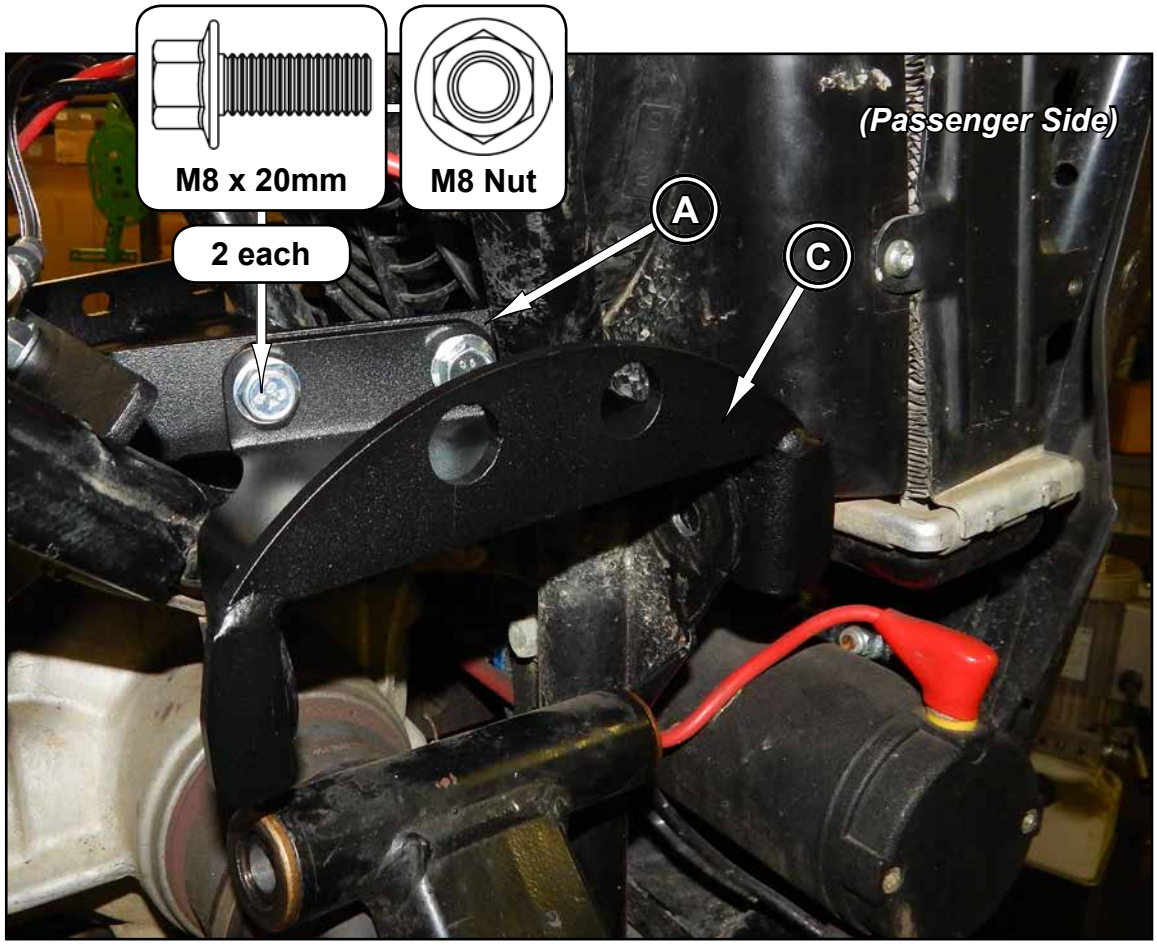
- **Remove Shocks from Upper A-Arms.**
- **Remove Upper A-Arms from Frame.**

Do not tighten hardware completely unless noted.

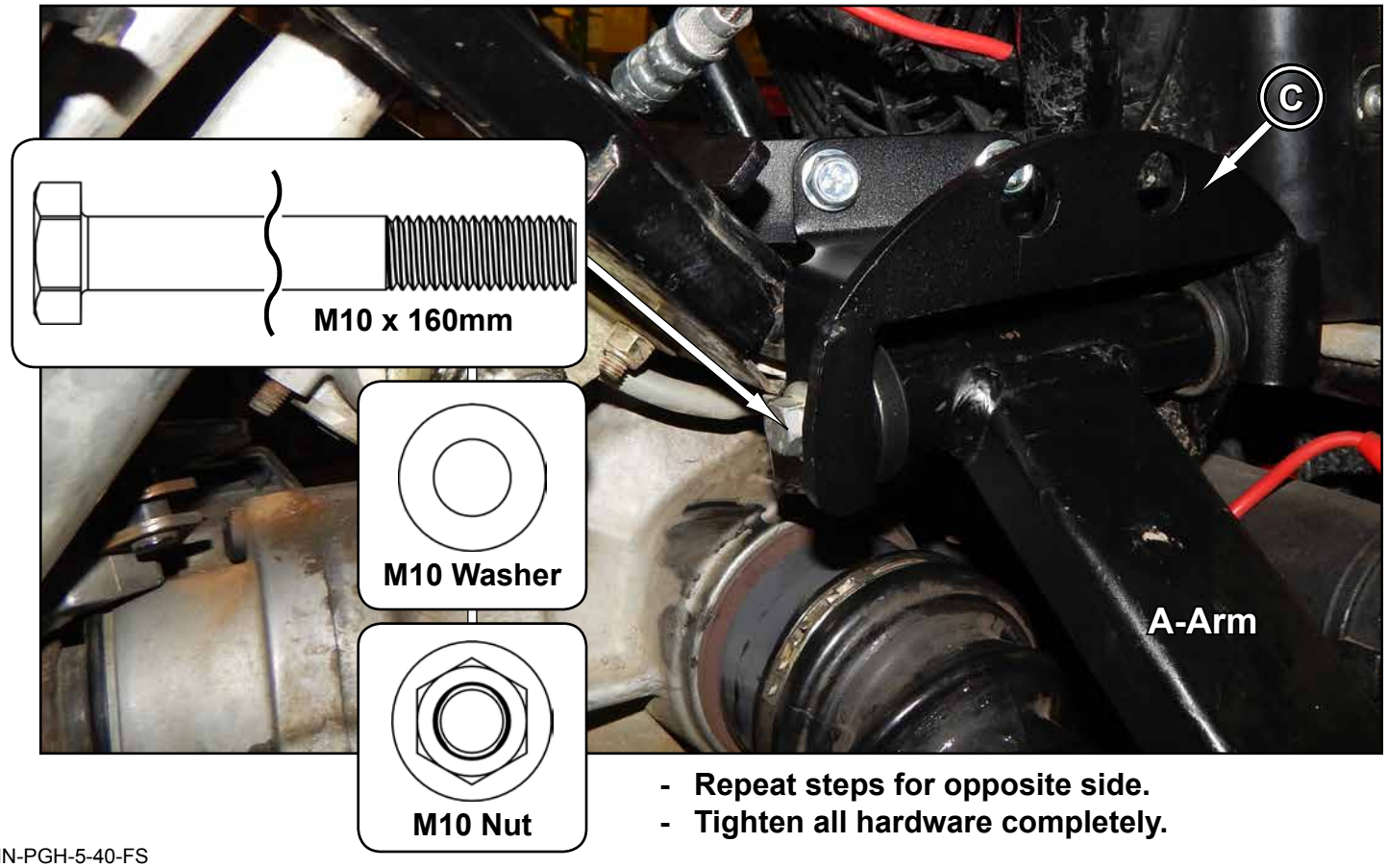
- **Insert Base (A) into machine as shown.**



- **Install Right Bracket (C) to Base (A) with hardware shown.**

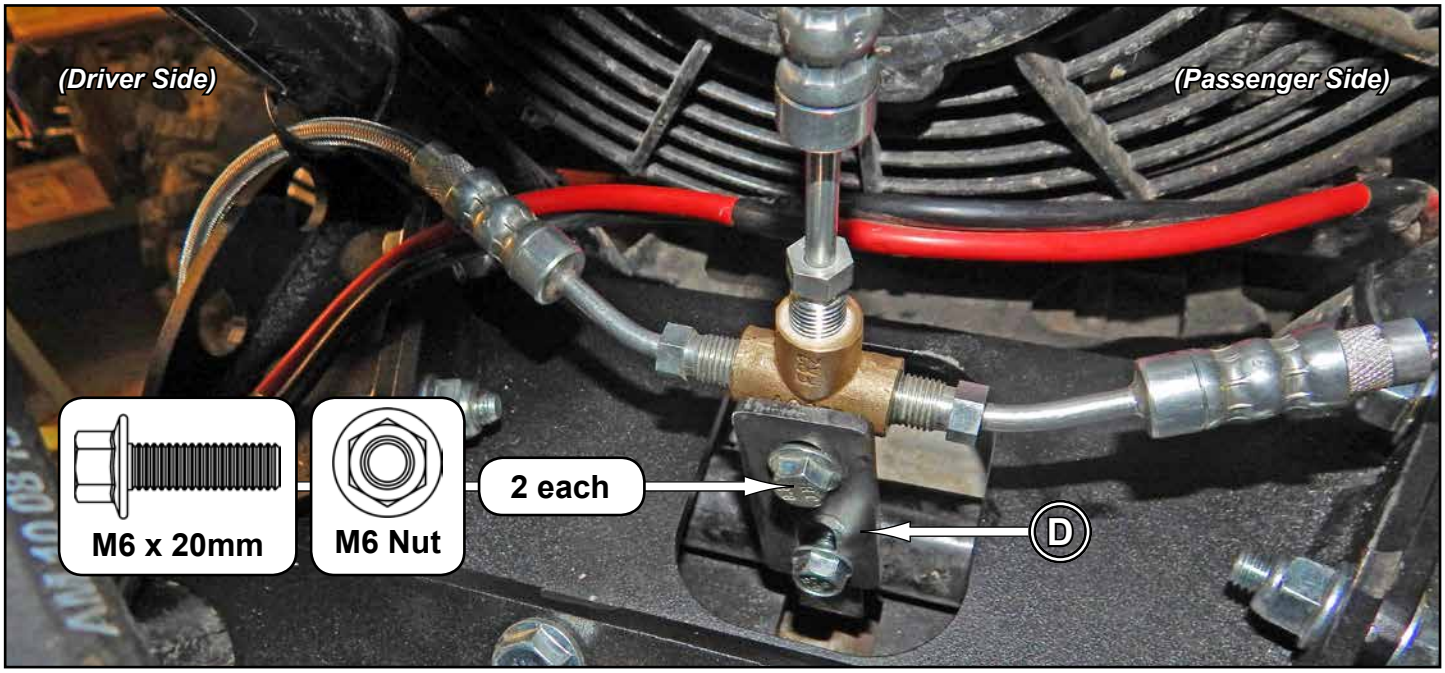


- **Secure A-Arm to Right Bracket (C) with hardware shown.**



- **Repeat steps for opposite side.**
- **Tighten all hardware completely.**

- Install Extender (D) with hardware shown.
- Secure Front Supply Line and Brake Lines.



Liability Statement

SuperATV® products are designed to best fit user's ATV/UTV under stock conditions. Adding, modifying, or fabricating any factory or aftermarket parts will void any warranty provided by SuperATV® and is not recommended. SuperATV® products could interfere with other aftermarket accessories. If user has aftermarket products on machine, contact SuperATV® to verify that they will work together.

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 in 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.

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