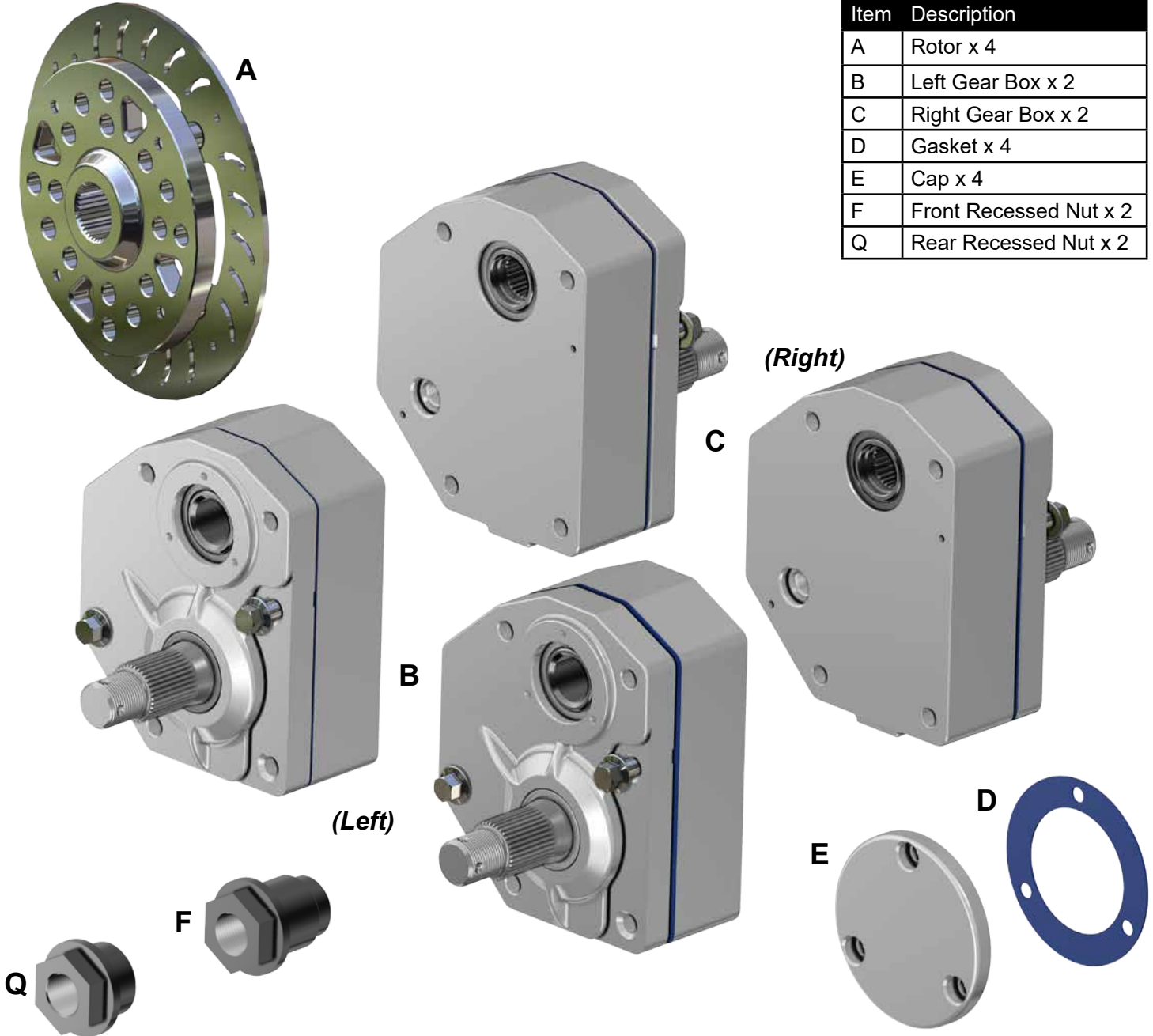


**INSTALLATION INSTRUCTIONS**  
**Gen 3 Portal Gear Hubs**  
 Polaris RZR<sup>®</sup> XP 900 Crew

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
Q	Rear Recessed Nut x 2



**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 - 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*  
**SUPERATV**.COM<sup>®</sup>

(Kit Contents continued)



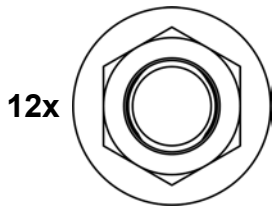
Item	Description
G	Front Caliper Mounting Bracket x 2
H	Left Spindle
J	Right Spindle
K	Left Bearing Carrier
L	Right Bearing Carrier
M	Left Steering Arm
N	Right Steering Arm
P	Rear Caliper Mounting Bracket x 2
R	Adapter Plate x 2

**Brake Lines:**

Length (Approx)	Location
50"	Right Front
80"	Right Rear
42"	Left Front
65"	Left Rear

*Front Brake Lines have same style fittings at each end.*

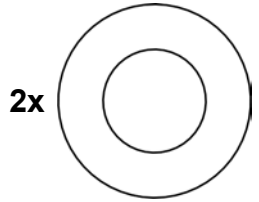
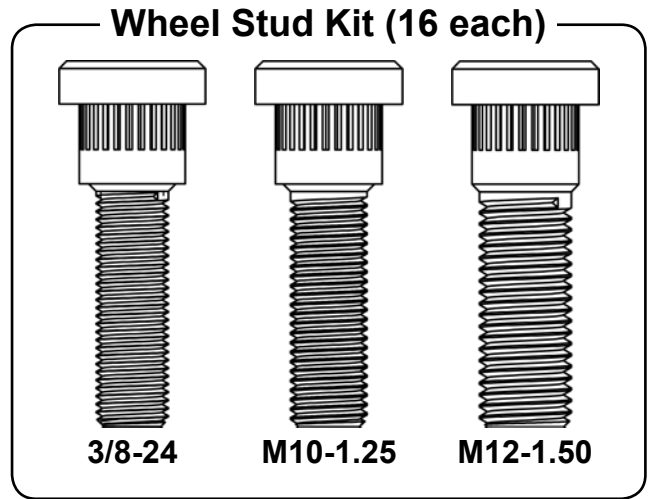
# Front Hardware Kit



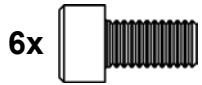
12x M12 Nylock Nut



2x Cotter Pin



2x M12 Narrow Washer

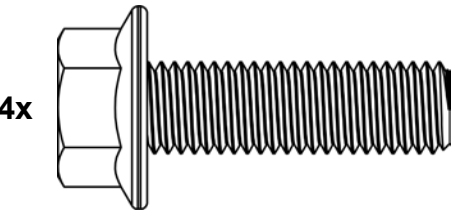


6x M6-1.0 x 12mm Lg. SHCS

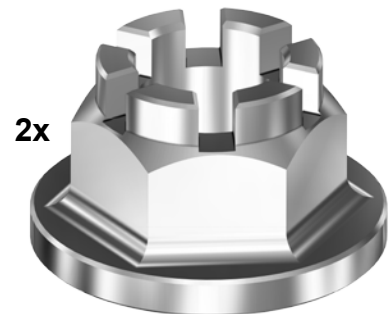


4x Drain Plug

Threadlock, 2mL



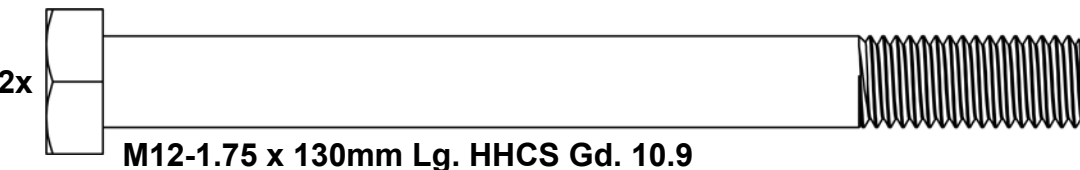
4x M12-1.50 x 40mm Lg. FHCS



2x Castle Nut

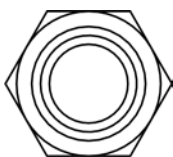


6x M12-1.75 x 120mm Lg. FHCS Gd. 10.9

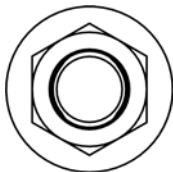


2x M12-1.75 x 130mm Lg. HHCS Gd. 10.9

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

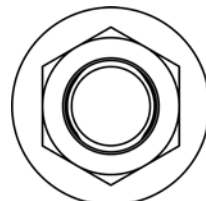


M12 Nylock Nut



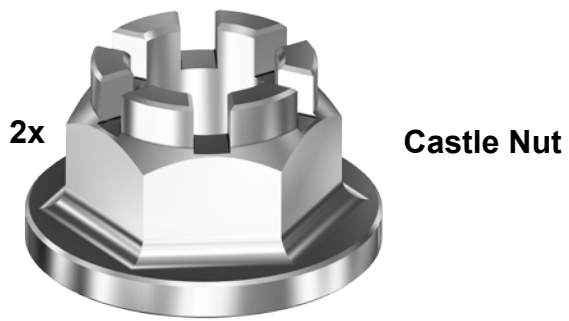
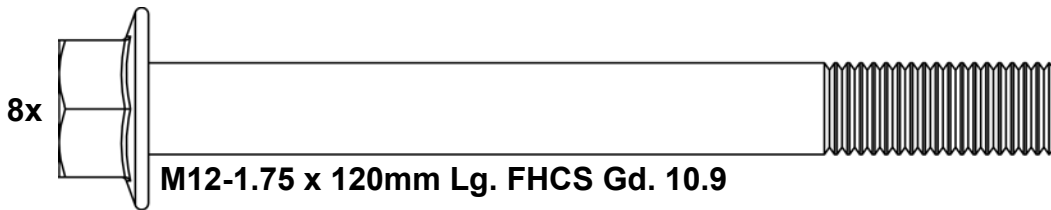
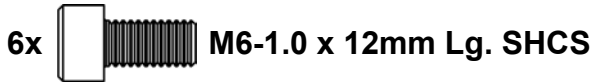
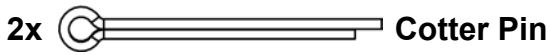
M10 Nylock Nut

(Qty. 2 each)

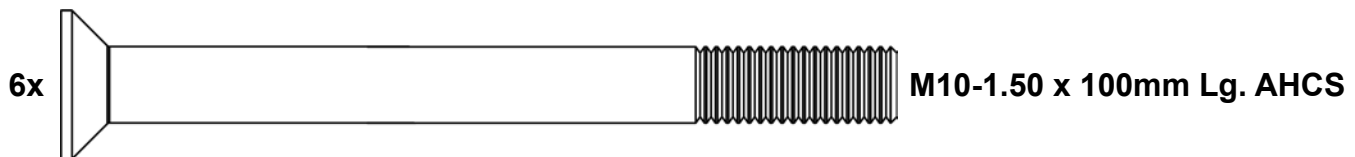
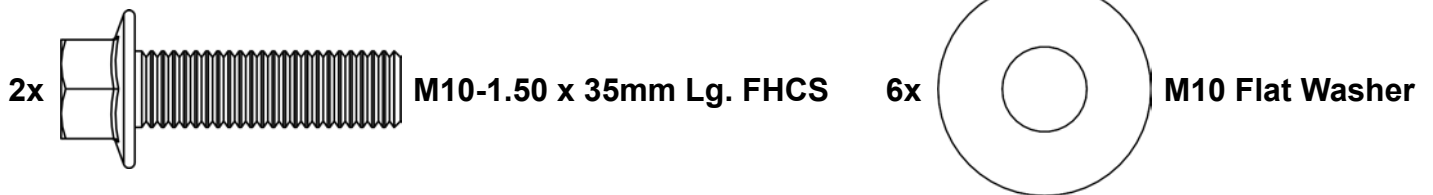


M12 Nylock Nut

## Rear Hardware Kit



## Accessory Hardware Kit



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.

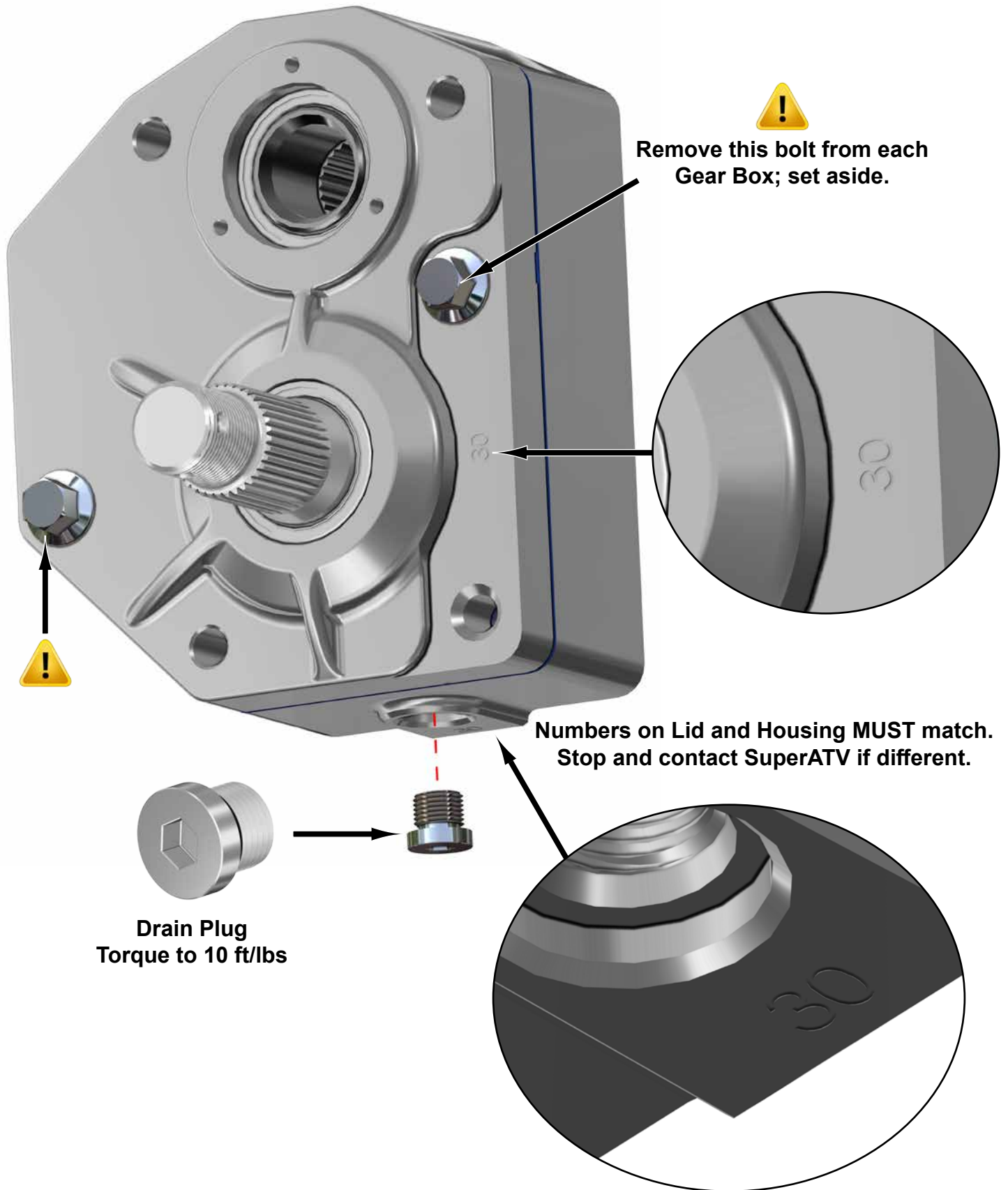
Should further information be desired or should particular problems arise which are not covered sufficiently for the Buyer's purpose, the matter should be referred to SuperATV®.

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**

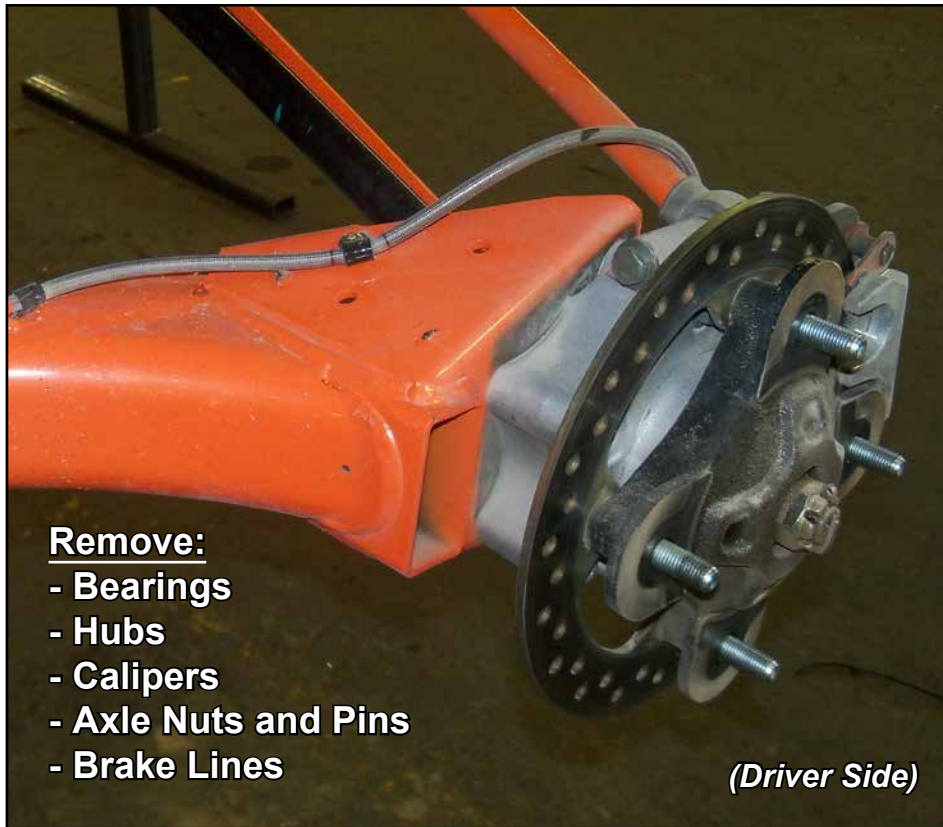


**DO NOT USE IMPACT WRENCH WHEN INSTALLING ANY HARDWARE INTO HOUSING**

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



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



Install provided Studs into Rotors (A):

- See "Wheel Hub Bolt Patterns".
- Note machines bolt pattern and lug size.
- Set Rotors (A) aside when complete.



Use a brass Punch and hammer when installing Studs

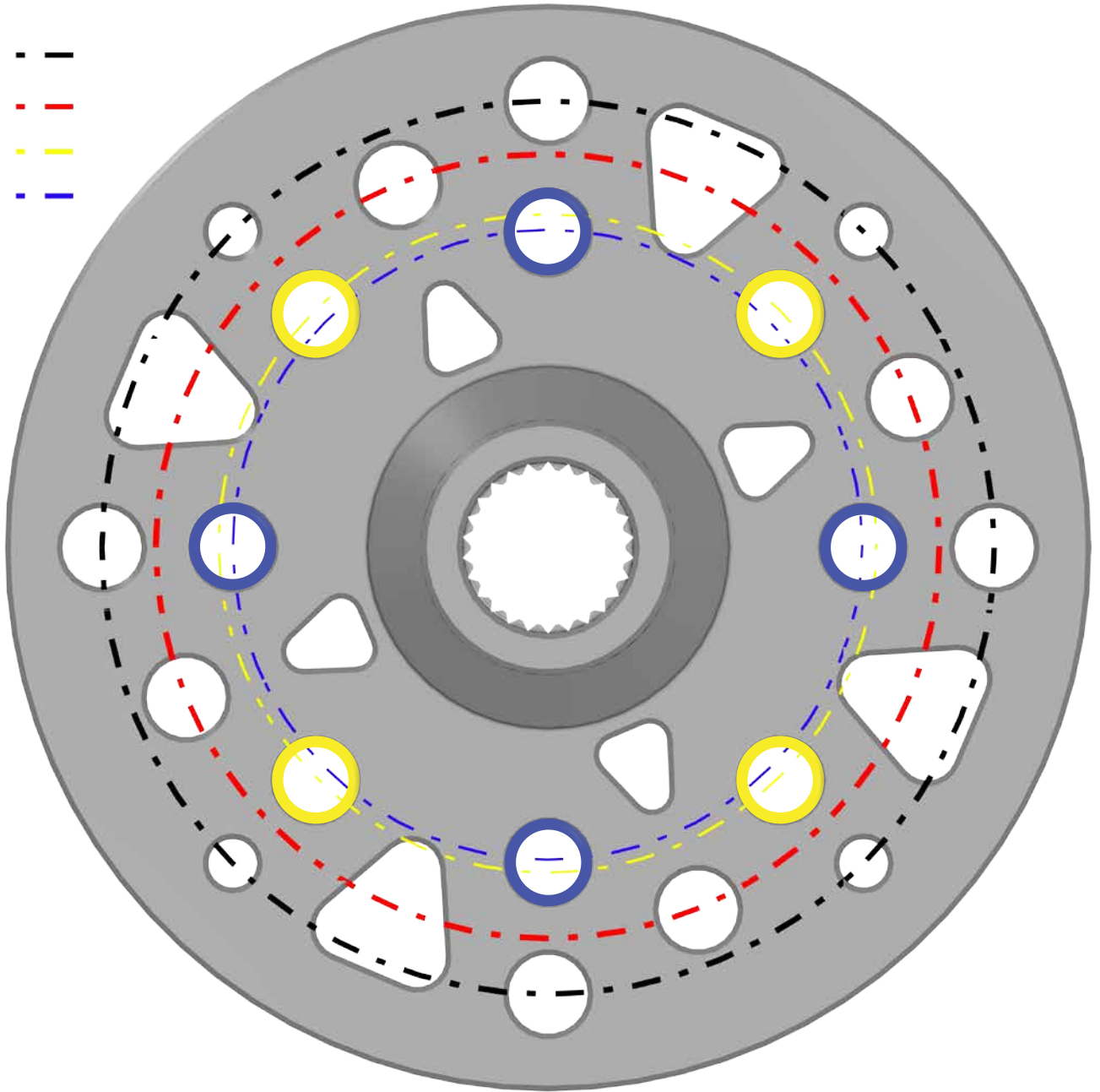


Use spacers of some sort when installing Studs.

Sockets work well as spacers

# Wheel Hub Bolt Patterns

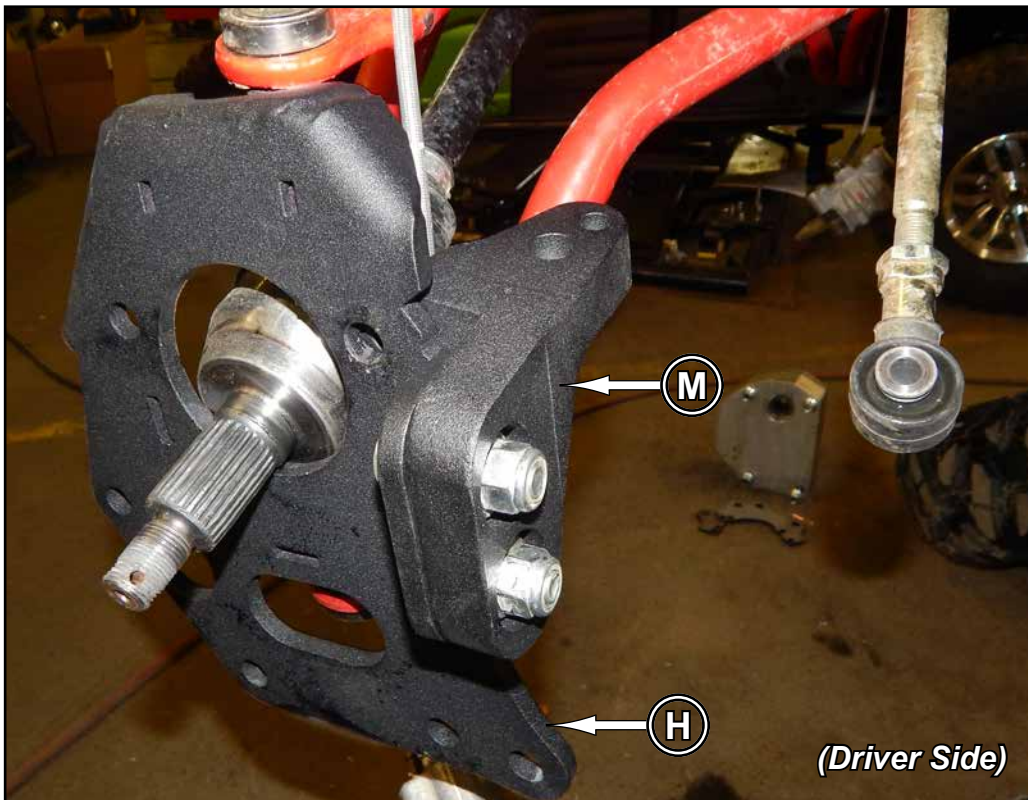
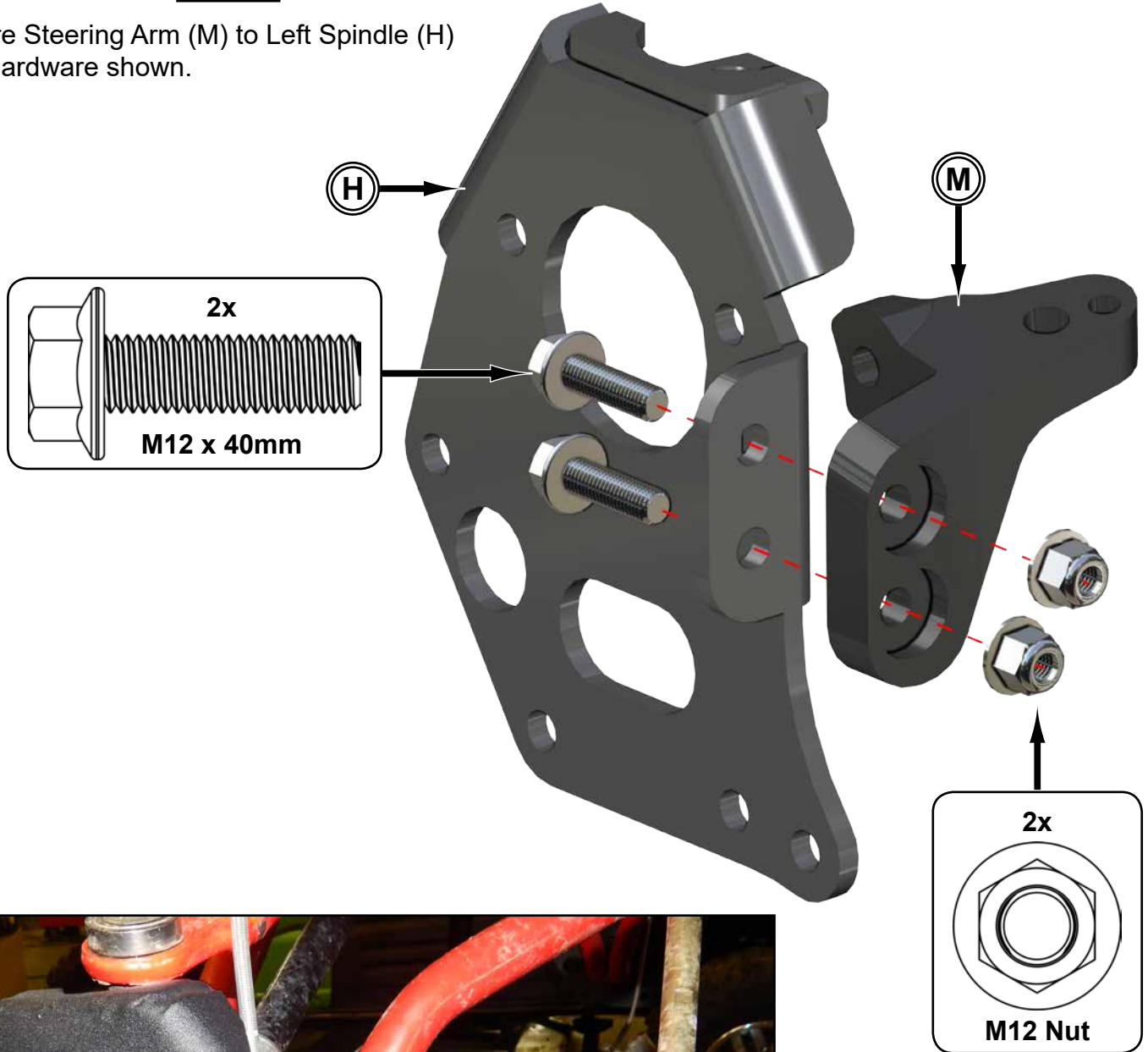
- A - - - -
- B - - - -
- C - - - -
- D - - - -



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

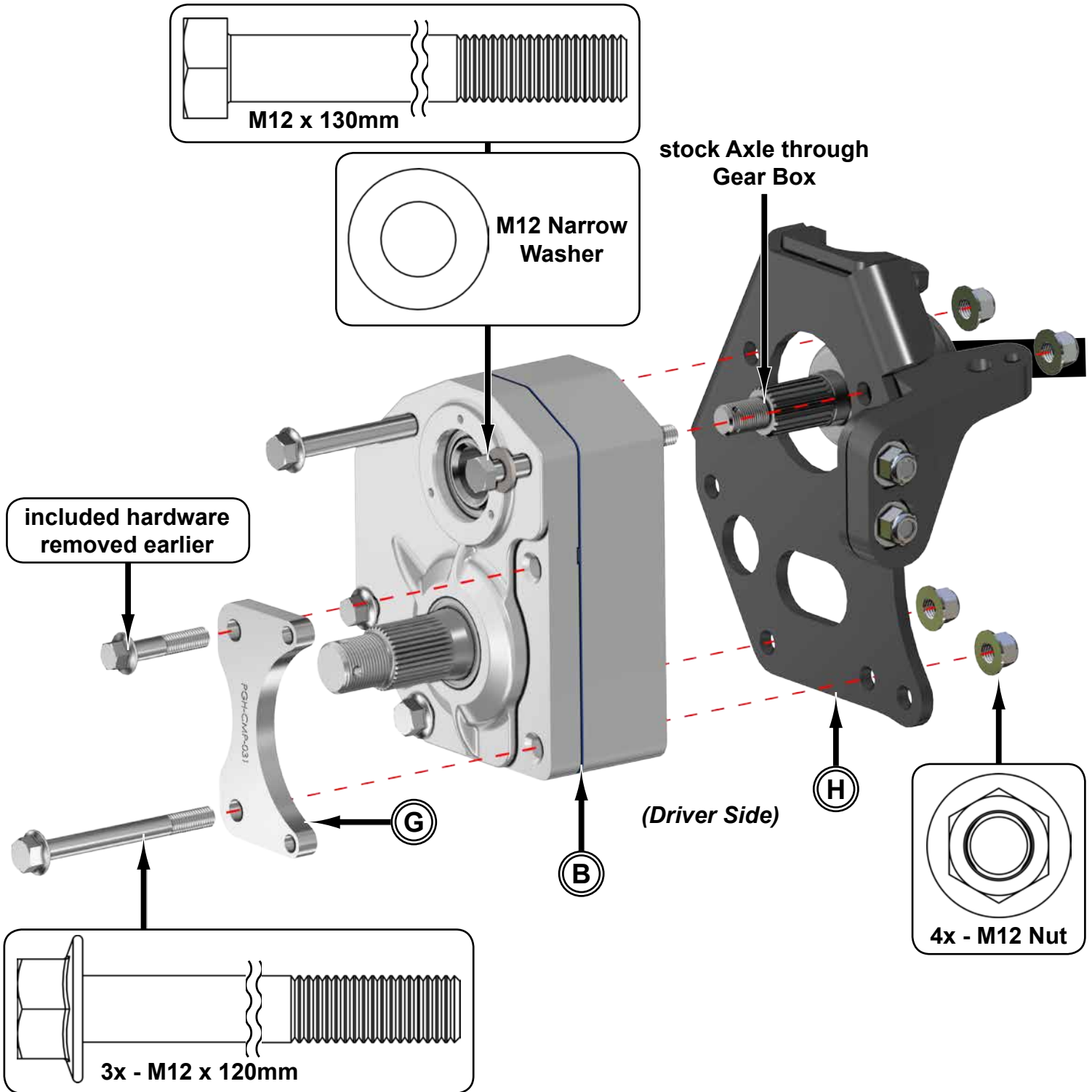
**Front:** do not tighten hardware completely unless noted.

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



### Front continued:

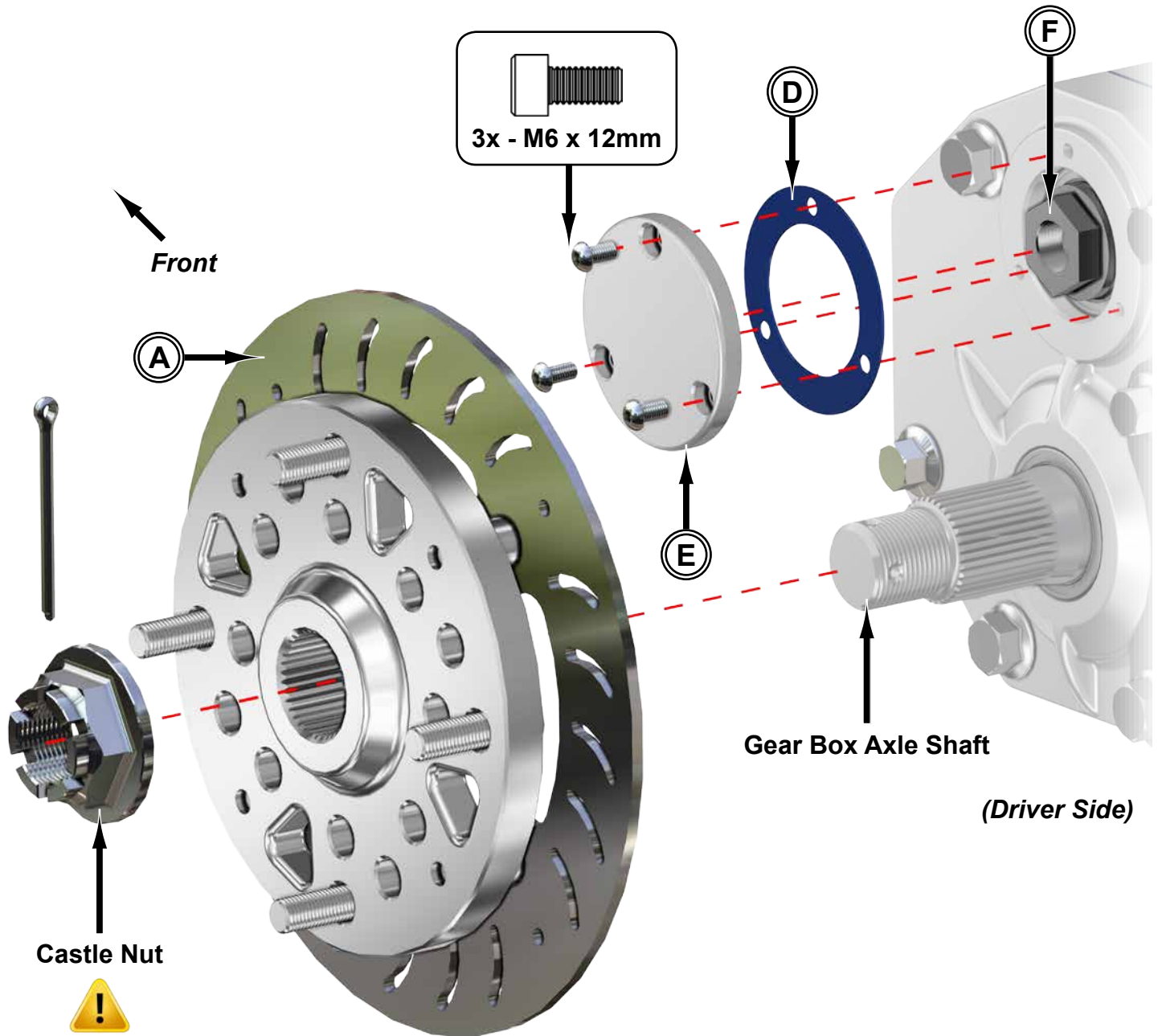
- Secure Left Gear Box (B) and Front Caliper Mounting Bracket (G) to Left Spindle (H) with hardware shown.



**Tighten all hardware completely.**

### Front continued:

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

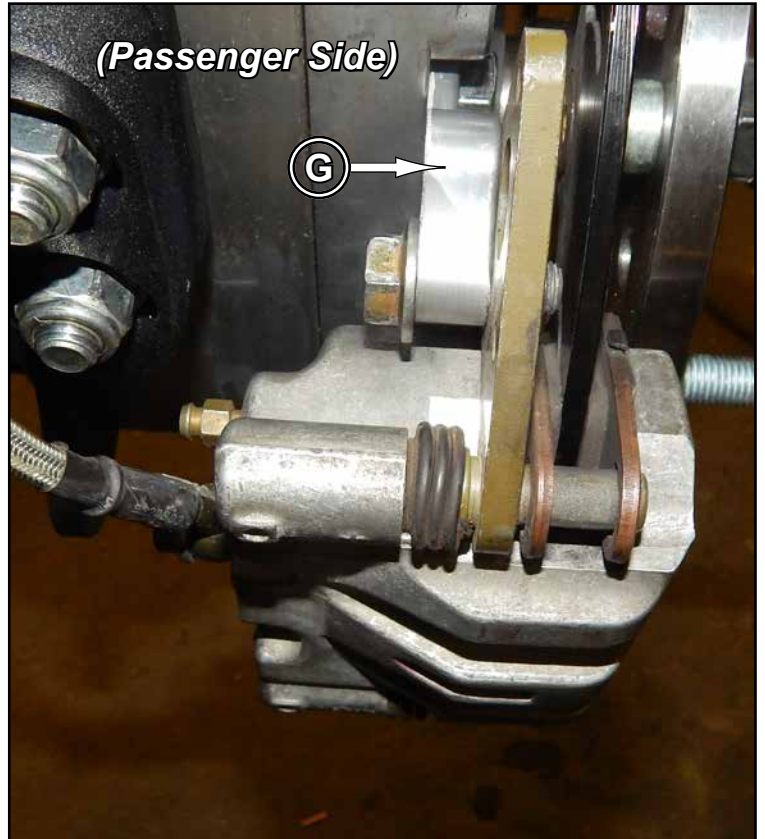
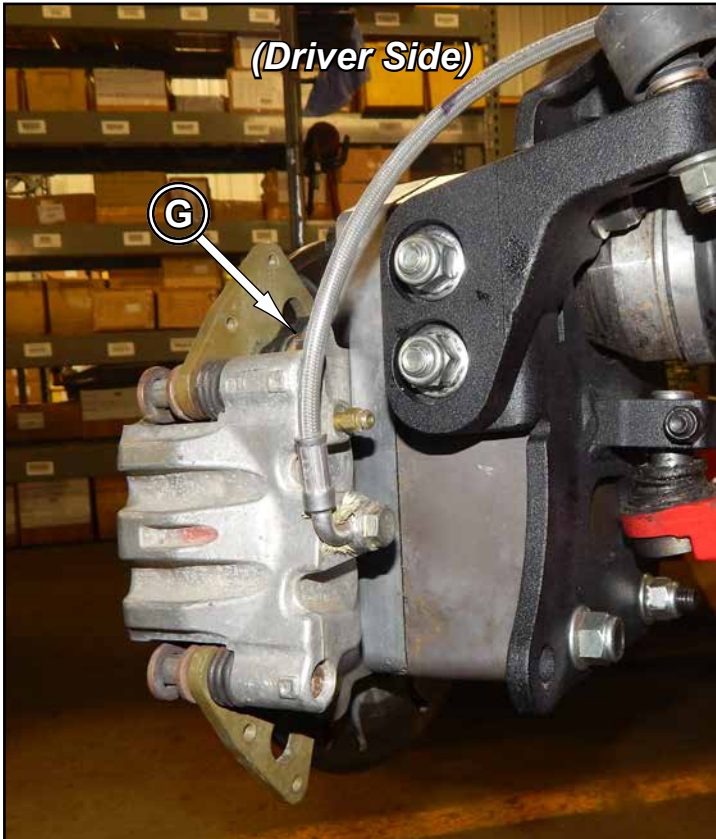


- Torque to minimum 300 Ft/Lbs.
- Continue tightening until Cotter Pin can be installed.

**Tighten all hardware completely.**

### Front continued:

- Reinstall stock Calipers to Front Caliper Mounting Bracket (G) with stock hardware.
- **Front Brake Calipers must be switched: passenger side to driver side. Bleeders must face up.**



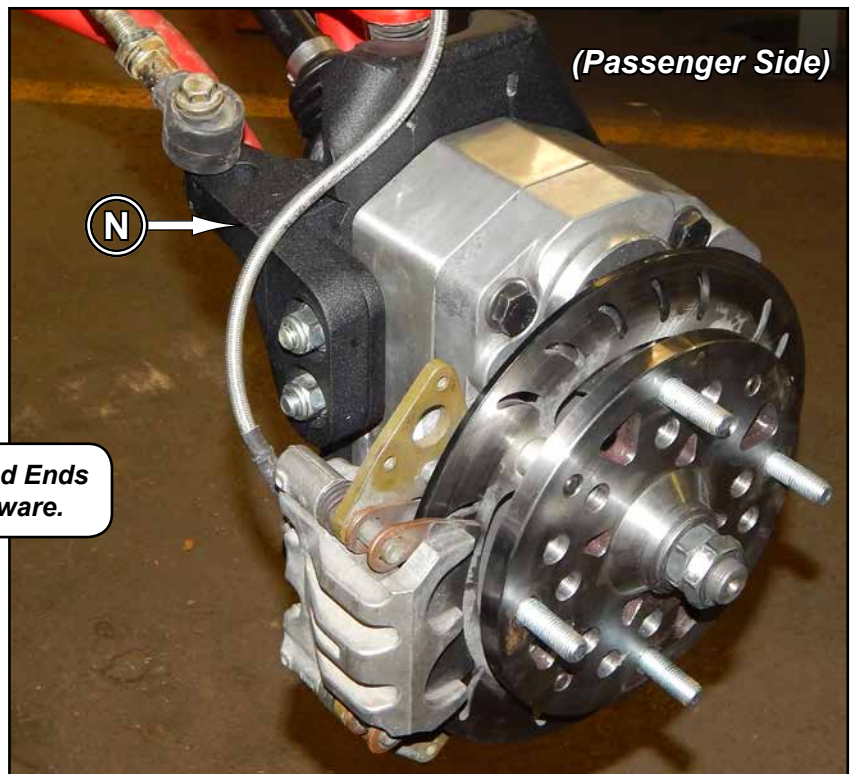
### Brake Lines installation:

- Install provided Front Brake Lines.
- Ensure that no binding occurs after Brake Lines have been installed and secured.

- Secure Tie Rod Ends to inner most hole in Steering Arms (M)(N) with stock hardware.

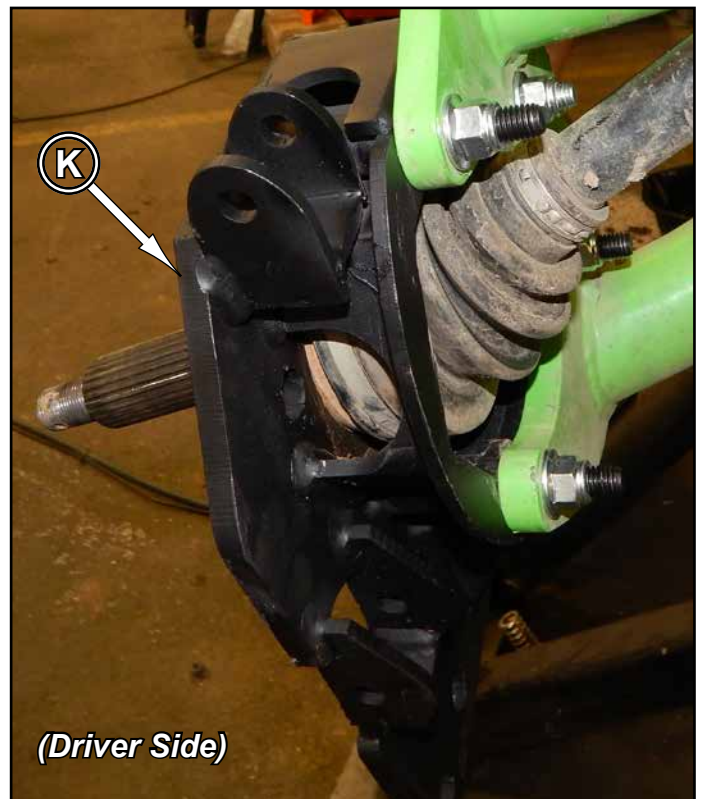
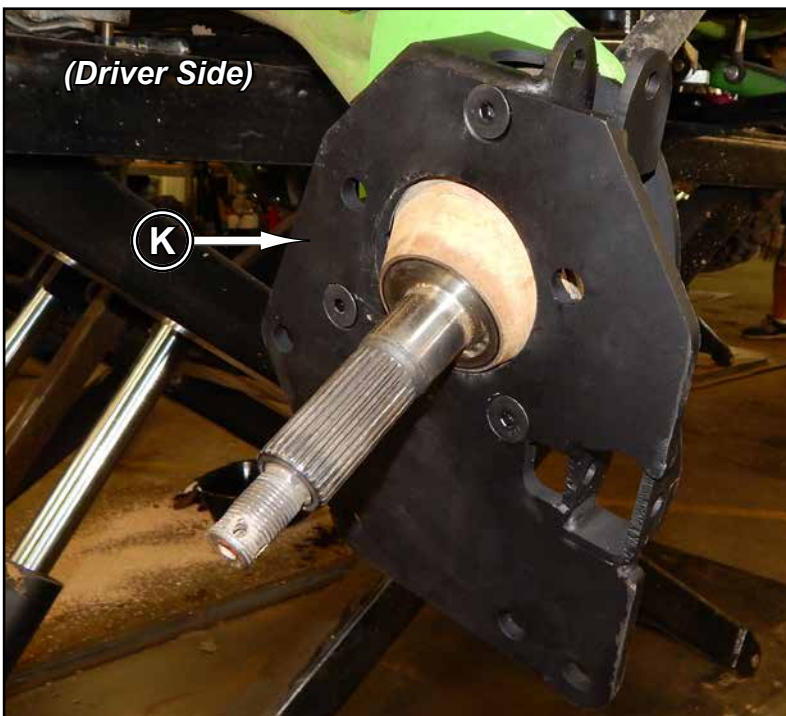
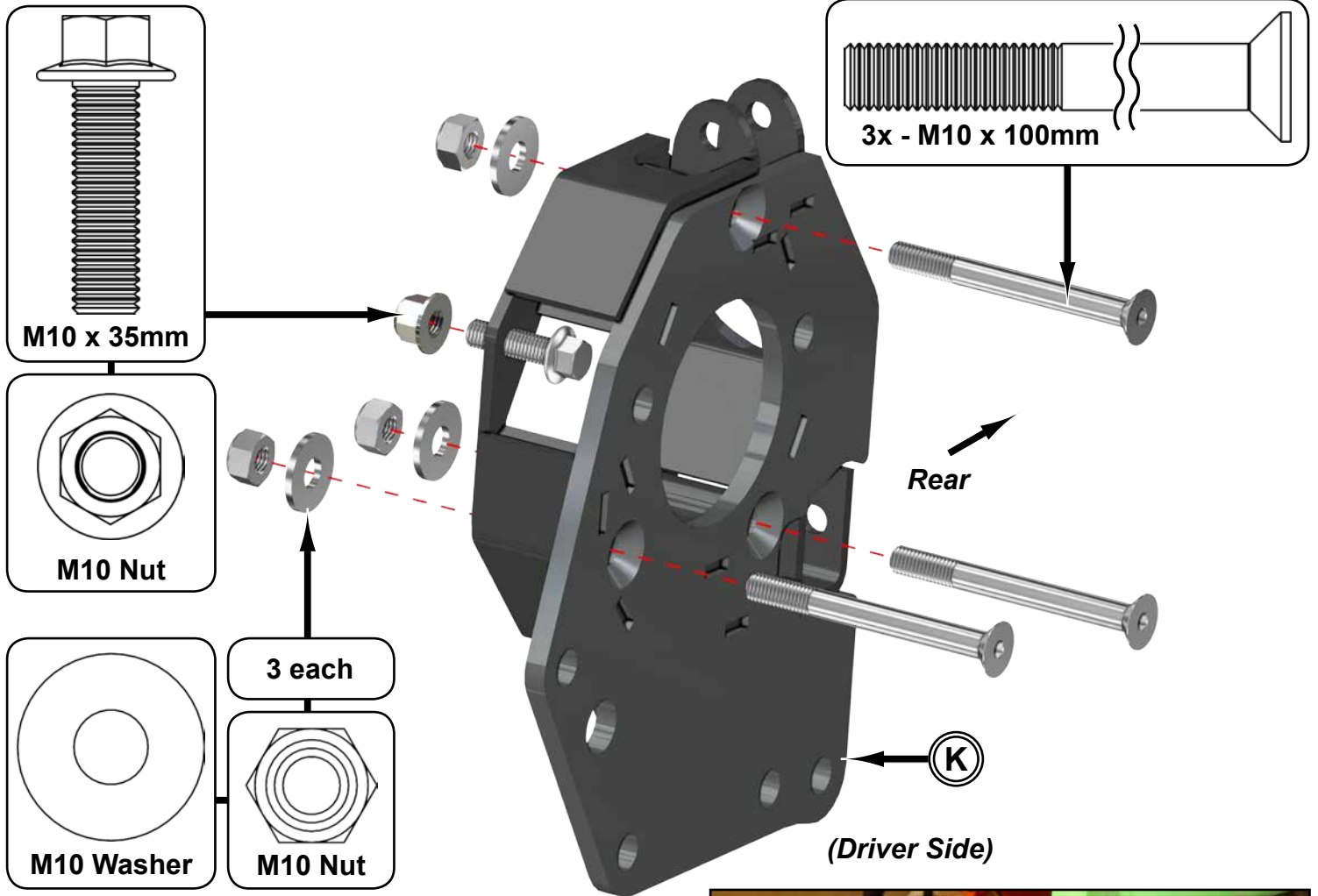


**If machine has SuperATV Heavy Duty Tie Rod Ends see "Front Hardware Kit" for correct hardware.**



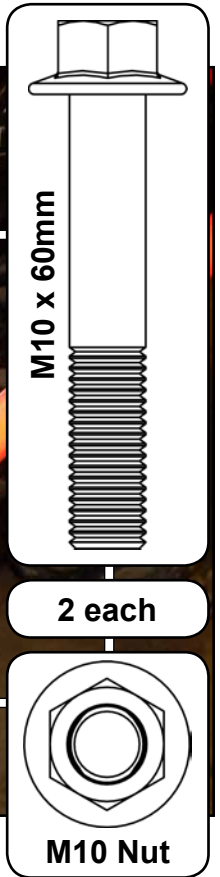
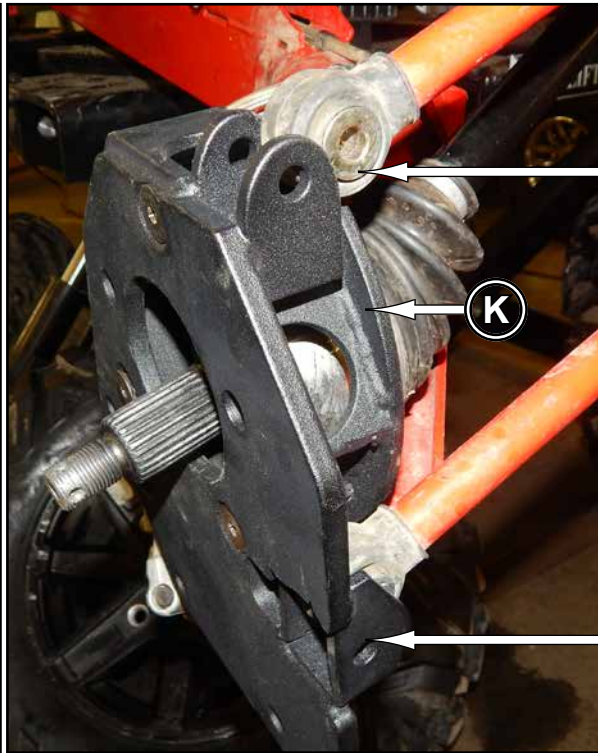
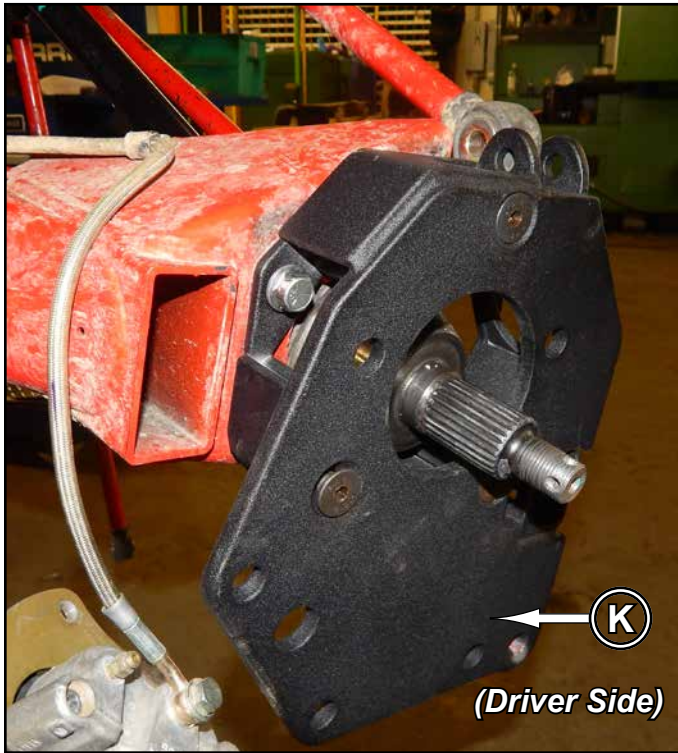
**Rear:** do not tighten hardware completely unless noted.

- Secure Left Bearing Carrier (K) to stock Trailing Arms with hardware shown.



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

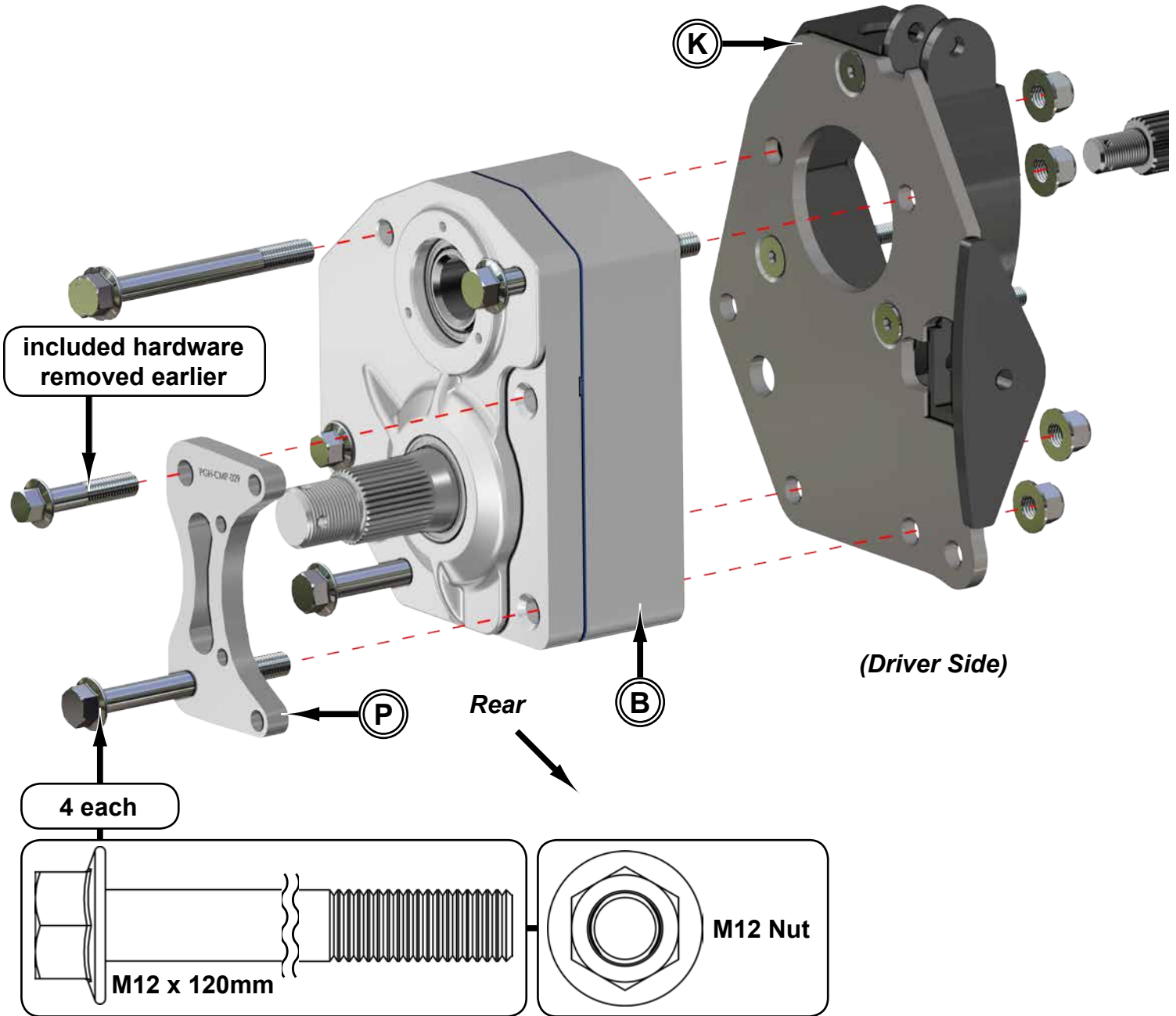
- Secure RSL's with hardware shown.



**TIGHTEN ALL HARDWARE COMPLETELY AND REPEAT STEPS FOR OPPOSITE SIDE.**

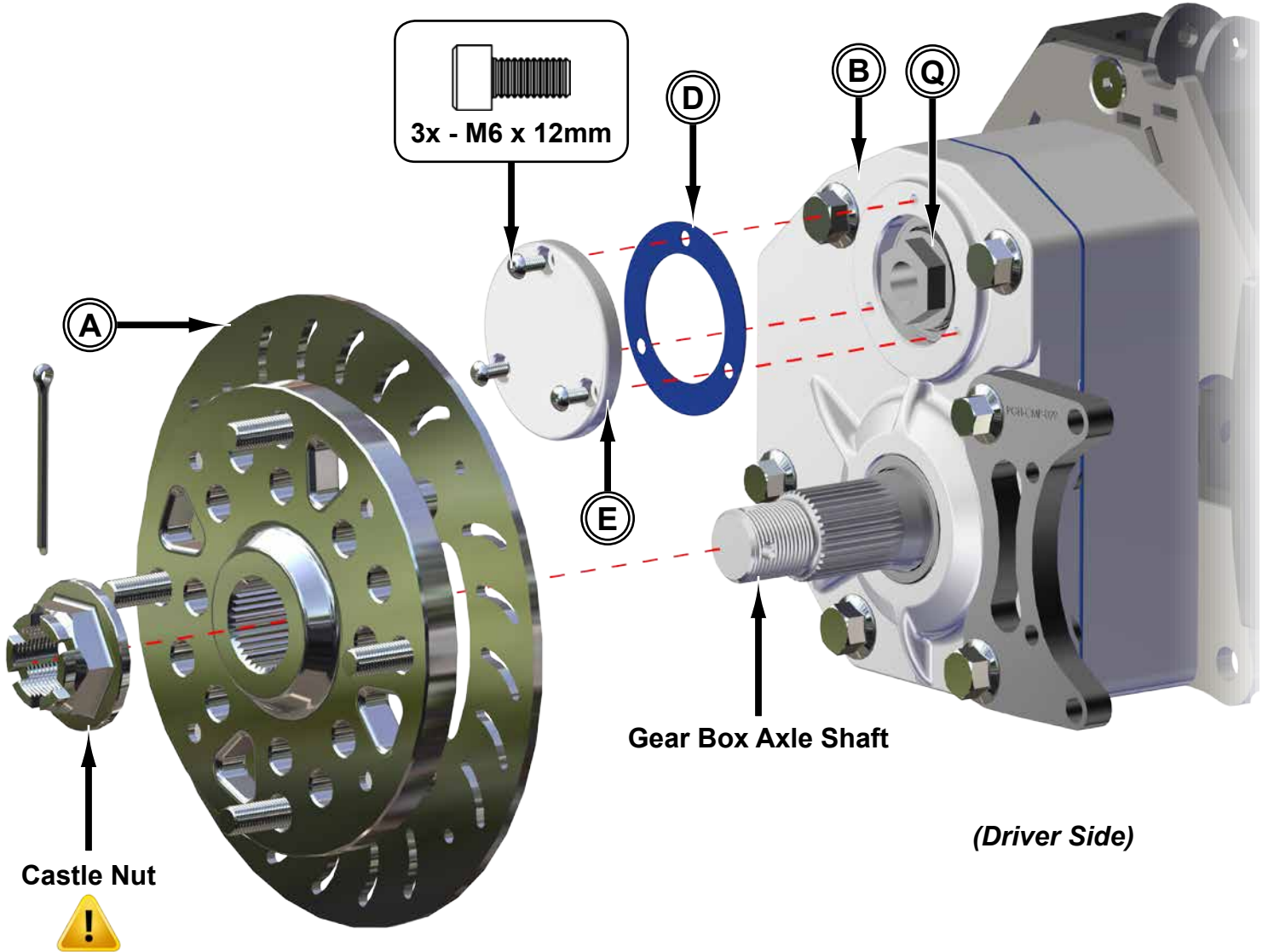
### Rear continued:

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



### Rear continued:

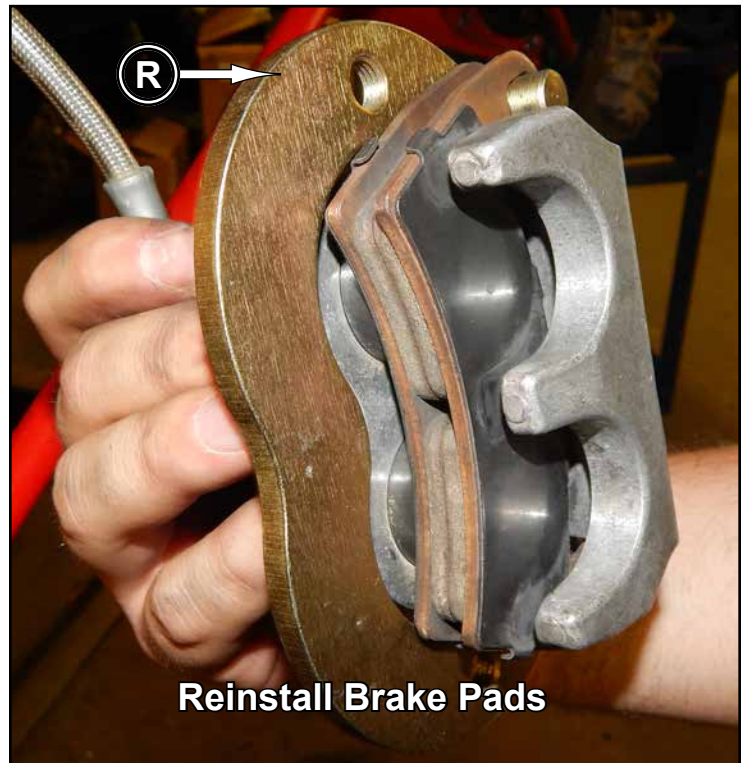
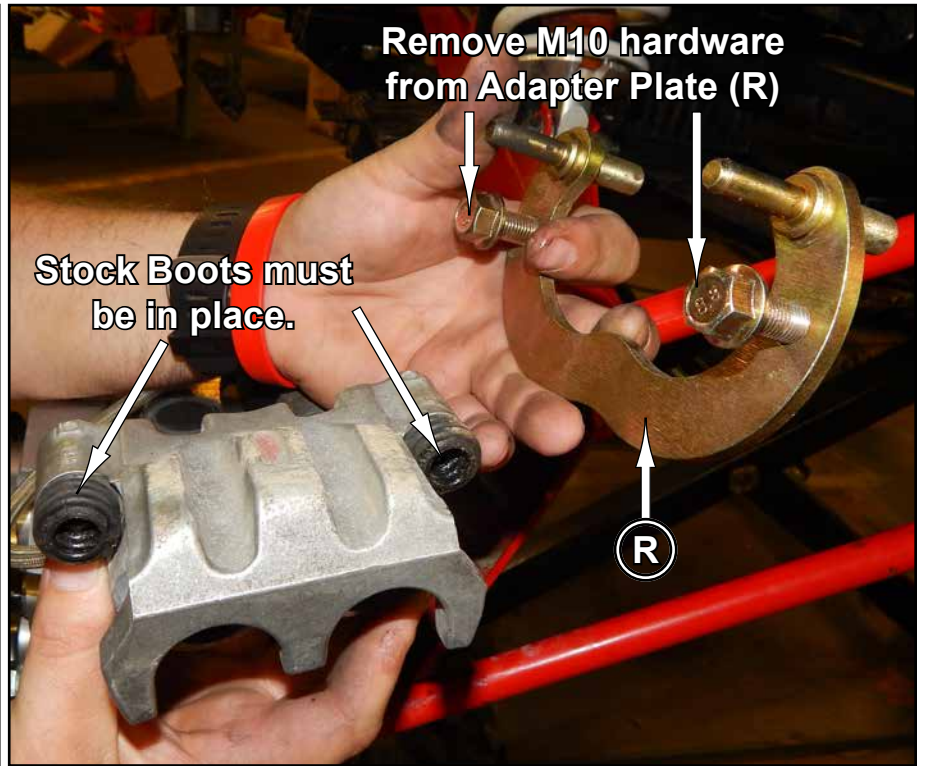
- Secure stock Axle with Rear Recessed Nut (Qt); use thread locker.
- Tighten completely.
- Secure Gasket (D) and Cap (E) to Left Gear Box (B) with hardware shown.
- Secure Rotor (A) to Gear Box Axle Shaft with hardware shown.



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

**Tighten all hardware completely and repeat steps for opposite side.**

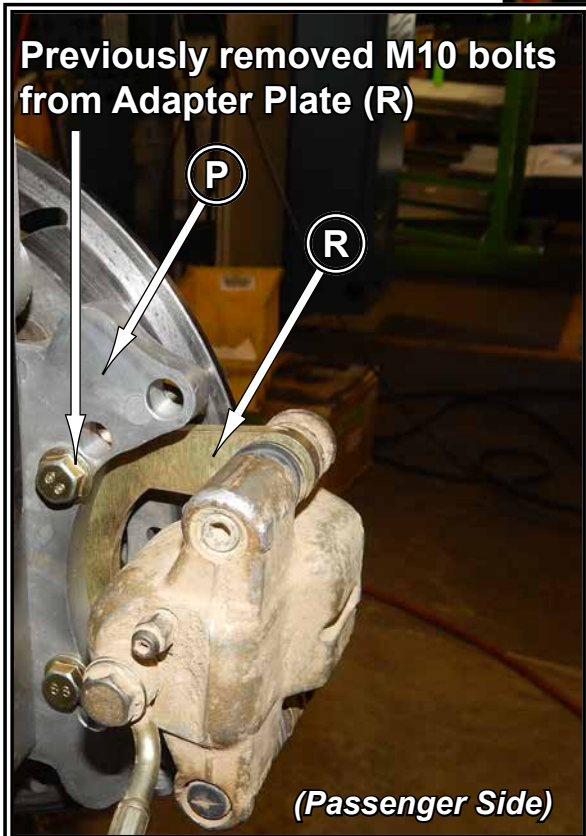
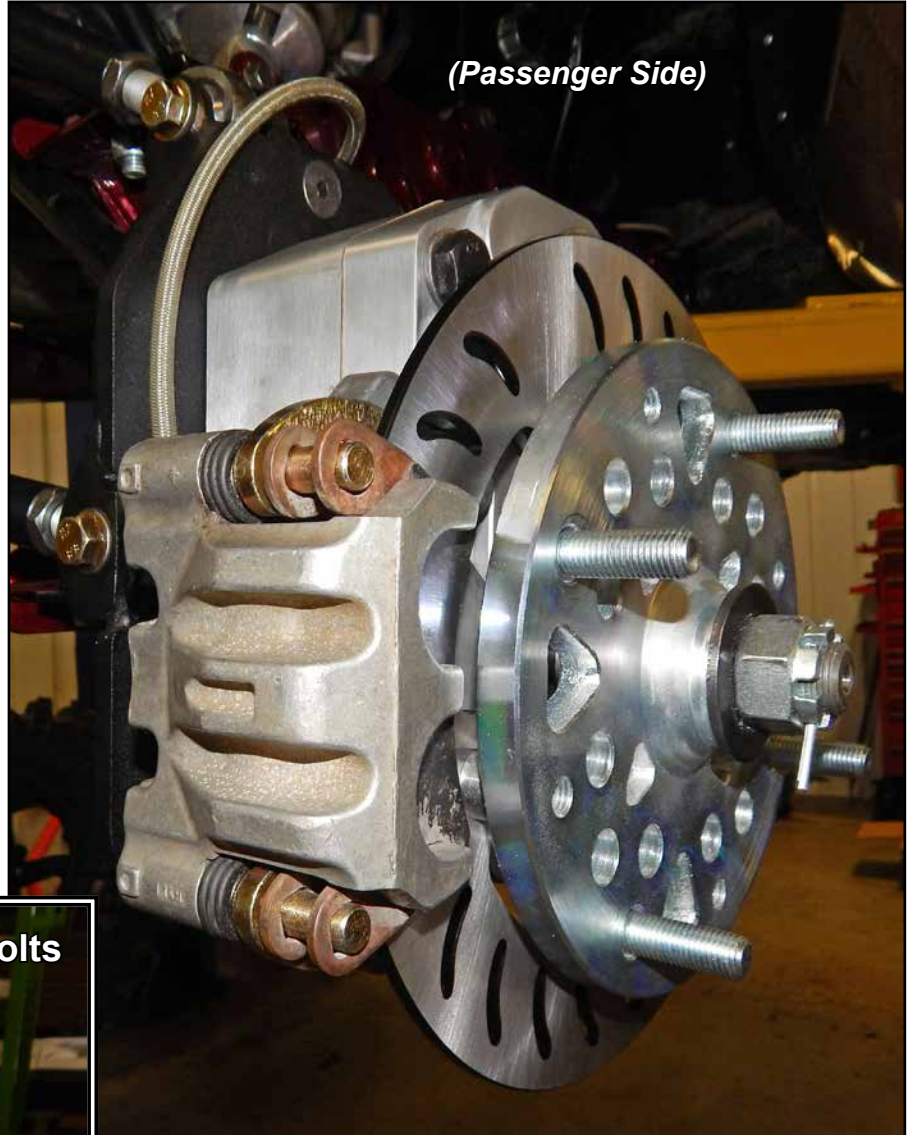
## Brake Caliper:



Repeat steps for opposite Brake Caliper.

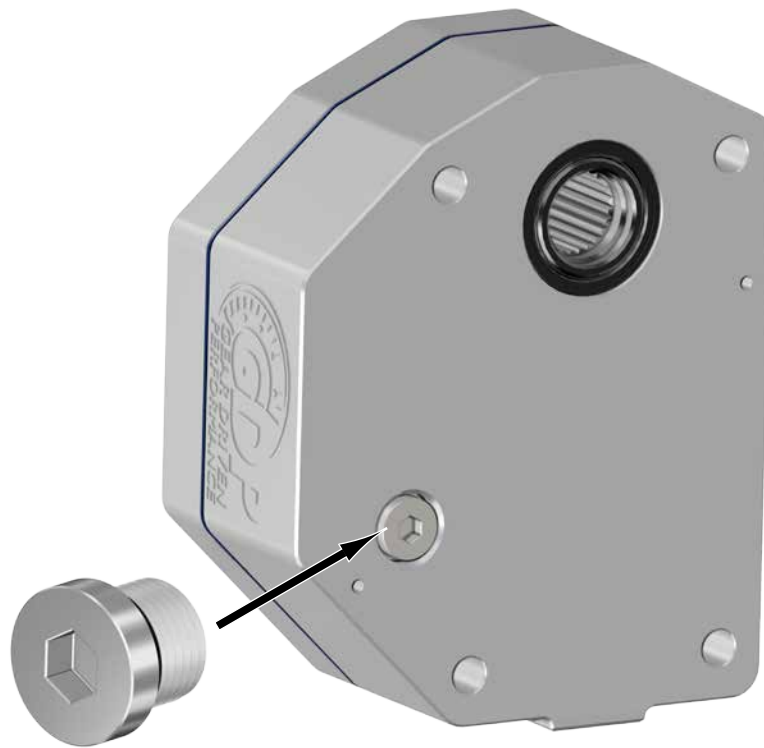
## Rear continued:

- Reinstall stock Calipers to Rear Caliper Mounting Brackets (P) with hardware shown.
- Install provided Rear Brake Lines.
- Ensure that no binding occurs after Brake Lines have been installed and secured.



## Rear continued:

- 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**