



FISHER® XLS™

RAZORBACK RETROFIT KIT™

INSTALLATION INSTRUCTIONS



READ THIS DOCUMENT BEFORE INSTALLATION OR USE



PRODUCT REGISTRATION BY THE END USER IS REQUIRED FOR WARRANTY ACTIVATION



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LIMITED WARRANTY LIABILITY STATEMENT

Working with machinery and heavy equipment is inherently dangerous with significant risk of personal injury or even death. When a customer uses machinery and heavy equipment, the customer accepts the risk inherent in that use.

The Razor Back Retrofit Kit are aftermarket parts; they are not genuine original equipment manufacturer (“OEM”) parts. The use of the Razor Back Retrofit Kit may impact the performance characteristics of or cause damage to the other systems of the equipment or vehicle. Except as described in this disclaimer, any such impact or damage is the sole responsibility of the customer and is not covered by this disclaimer.

It is the customer’s sole responsibility to inspect and verify that the dimensions, specifications, and performance of the Razor Back Retrofit Kit and its parts and components are appropriate for the customer’s use before any actual installation and/or use of the Razor Back Retrofit Kit. It is the customer’s responsibility to inspect the Razor Back Retrofit Kit before installation for evidence of damage or defect. Improper installation can lead to personal injury or death, or property damage. Installation of the Razor Back Retrofit Kit should only be performed by qualified mechanics who are certified, authorized or otherwise expressly qualified to work on the vehicle and other equipment to be used with the Razor Back Retrofit Kit to service or maintain those vehicles and other equipment of their respective manufacturers. The customer is solely and completely responsible for determining whether its vehicle and equipment may be safely used with the Razor Back Retrofit Kit and that the vehicle and equipment are appropriate for this Razor Back Retrofit Kit and its parts and components. It is the customer’s sole responsibility to ensure that the Razor Back Retrofit Kit and its parts and components are properly installed on their vehicle, including any modifications deemed necessary by the customer for the proper performance of the Razor Back Retrofit Kit.

Arctic Snow and Ice Control Products, LLC disclaims all liability for any special, direct, incidental or consequential damages, or any damages whatsoever, including, without limitation, the loss of life or limb, or damages due to bodily or personal injury, which may arise or result from the installation or use of the Razor Back Retrofit Kit.

ANY DAMAGE RESULTING FROM A CUSTOMER’S INSTALLATION OR USE OF THE RAZOR BACK RETROFIT KIT AND ARCTIC SNOW AND ICE CONTROL PRODUCTS, LLC’S OTHER PRODUCTS AND PARTS IS NOT COVERED BY THIS LIMITED WARRANTY AND IS THE SOLE RESPONSIBILITY OF THE CUSTOMER. ONCE INSTALLED, THE ENTIRE RISK ARISING FROM OR OTHERWISE RELATED TO THE RAZOR BACK RETROFIT KIT OR OTHER PRODUCTS AND PARTS AND THEIR USE IS ASSUMED FULLY AND SOLELY BY THE CUSTOMER.

TO THE FULLEST EXTENT ALLOWED BY THE APPLICABLE STATE AND FEDERAL LAW, ARCTIC SNOW AND ICE CONTROL PRODUCTS, LLC DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, EVEN IF A PARTICULAR PURPOSE IS MENTIONED HEREIN.

Arctic Snow and Ice Control Products, LLC expressly disclaims all liability for direct, indirect, special, incidental or consequential damages, including but not limited to, damage or loss of property or equipment, loss of profits or revenue, cost of purchase or replacement of goods, or claims of customers of the purchaser that result from the use of its Razor Back Retrofit Kit, products and parts. In no event shall the liability of Arctic Snow and Ice Control Products, LLC, whether in tort, contract or otherwise, exceed the cost of the Razor Back Retrofit Kit or its part or component. However, the customer may have additional legal rights, which vary from state to state.



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ARCTIC'S LIMITED 2 YEAR WARRANTY

What is Covered

This warranty covers defects in welds and workmanship, except as set forth below, from the date of purchase.

Who is Covered

The original purchaser from an authorized dealer.

What You Must Do For Warranty Service

During this period, the user is responsible for informing the Dealer/Distributor of any problem(s) within 10 days of the initial occurrence. The Dealer/Distributor must then notify the manufacturer by phone or e-mail.

Failure to fully complete the warranty registration form, with proof of purchase, within 30 days upon receipt of product will void warranty.

What is Not Covered

This warranty does not cover:

1. Failure resulting from abuse
2. Improper service
3. Misuse
4. Negligence
5. Accidental impact
6. Improper operation
7. Any design modifications
8. Any use of 3rd party wear parts
9. Wear parts (shoes, hardware, cutting edges, polyblocks)
10. Corrosion
11. Injury / Death
12. Loss of revenue or profit



To be covered under Arctic's Limited 2 Year Warranty, it is **mandatory** that you register your Arctic RazorBack Retrofit Kit.

DO NOT FORGET TO REGISTER YOUR RAZORBACK RETROFIT KIT™.

Register at:
arcticsnowproducts.com/warranty



LIMITED 2 YEAR WARRANTY POLICY

Manufacturer warrants the RazorBack Retrofit Kit™ to be free of defects of material and workmanship for a period of two (2) years from the date of delivery by the customer. During this period, the user is responsible for informing the Dealer/Distributor of any problem(s) within 10 days of the problem(s). The Dealer/Distributor must then notify the manufacturer by phone or e-mail. (Failure to fully complete the warranty registration form, with proof of purchase, within 30 days upon receiving a new RazorBack Retrofit Kit™ will void warranty.)

The manufacturer will not warranty any wear parts such as wear shoes, poly mounting blocks, torsion springs, hardware and cutting edges. Warranty excludes failure resulting from abusive, improper service, misuse, negligence, accidental impact, improper operation, any design modifications and/or

the use of 3rd party wear parts, corrosion, injury and/or death, and loss of revenue or profit. The manufacturer will void all warranties specific or implied.

All claims must be discussed with an authorized representative of the manufacturer prior to any repairs, or warranty will be void. Recommended repairs and costs are to be discussed with and agreed upon in advance by manufacturer's representative. Repair or labor (at an agreed rate) will be performed by a manufacturer's specified dealer, and at a repair shop designated by the manufacturer. The repair or replaced product shall be guaranteed for the applicable warranty's remaining period. All shipping costs associated with any repairs are the customer's responsibility.

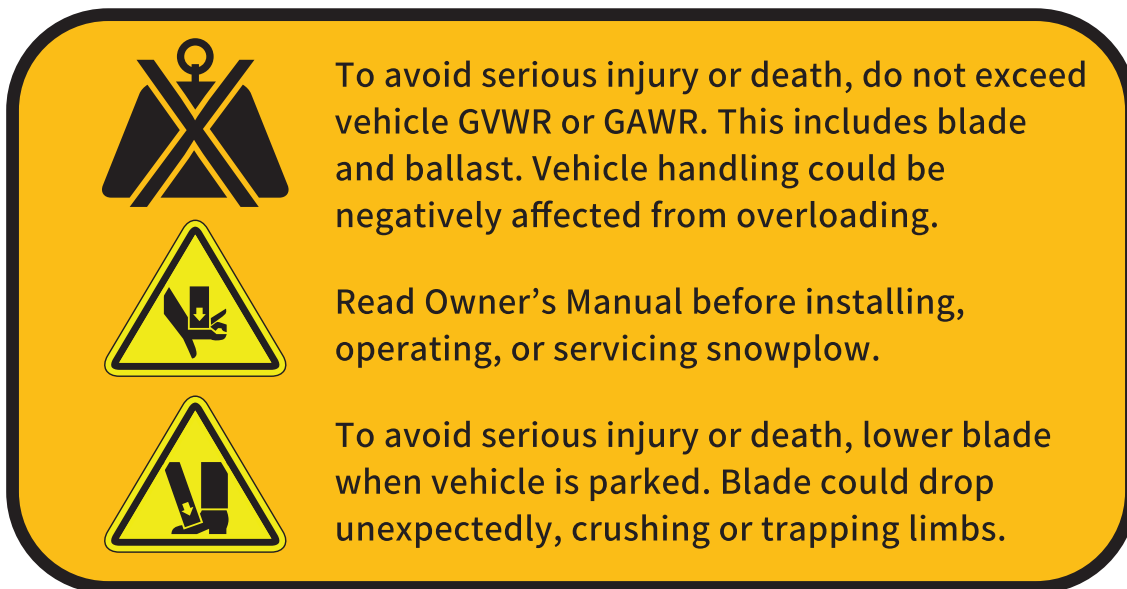


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SAFETY PRECAUTIONS & WARNINGS

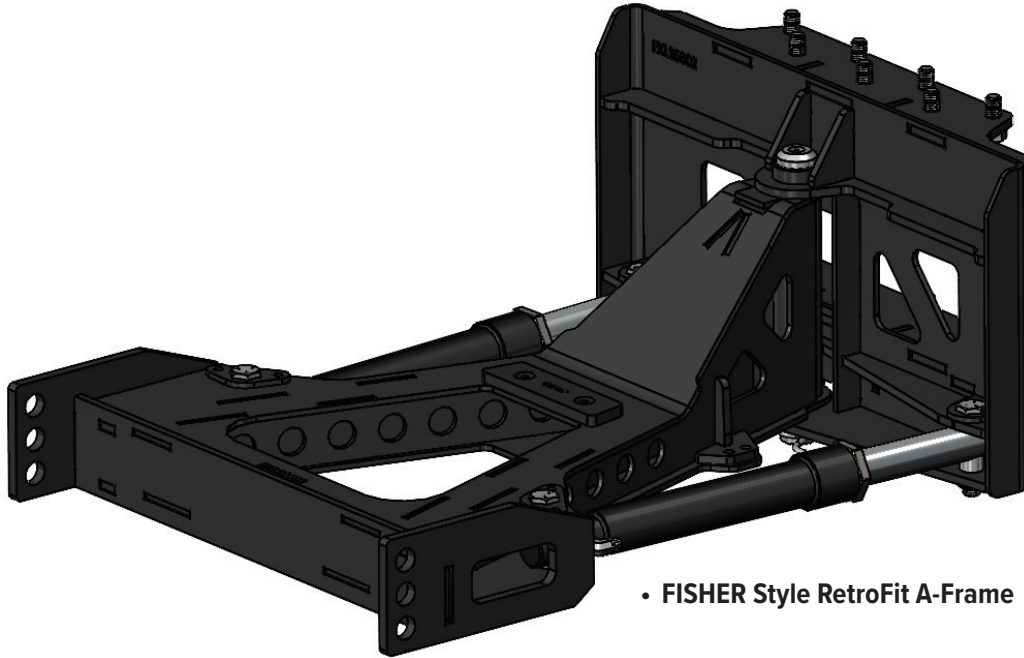
Safety decals must not be removed. If damaged, they must be replaced.



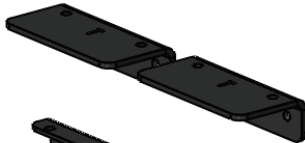
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RAZORBACK RETROFIT A-FRAME KIT COMPONENTS



• FISHER Style RetroFit A-Frame



• Large Bump Stop x2



• Small Bump Stop x2



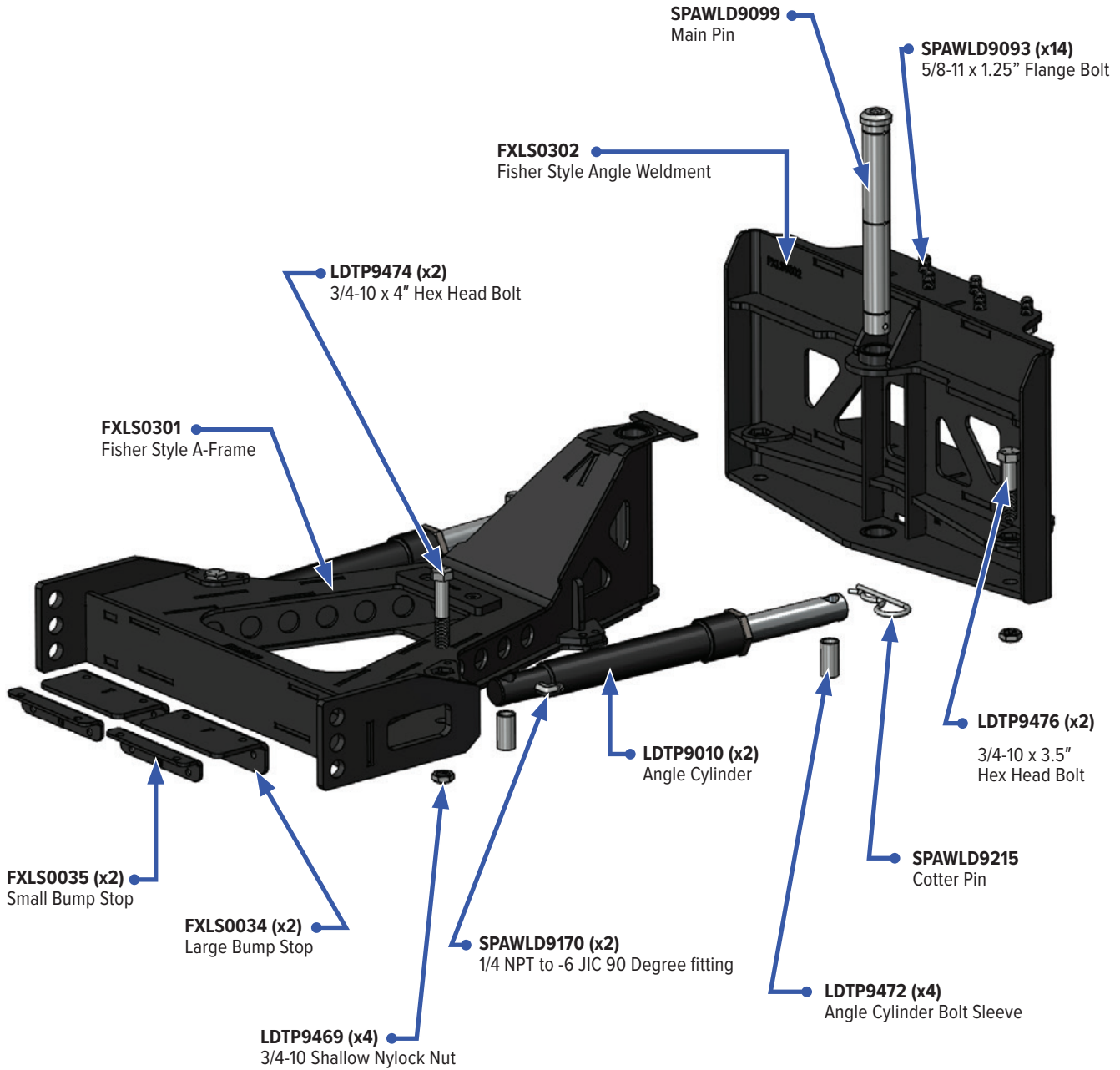
• 1/4 NPT to -6 JIC Fittings x2



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RAZORBACK RETROFIT A-FRAME PARTS LIST



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INSTALLING THE RAZORBACK RETROFIT KIT™

ⓘ Before you start the installation process:

If you are using the RazorBack Retrofit Kit™ with an existing plow, start on this page. If you are using a new Fisher® XLS™ big box unit, skip to step 9. Follow the OE setup directions for setting truck mount height to ensure the plow's A-Frame will be level to ground

STEP 1

Set plow down on ground and set vehicle parking brake. Locate wing cylinder hydraulic lines pictured below. They are on the back center of the plow moldboard.



Make note that the lines are labeled left to right: "A & B – C & D." This will be relevant to the installation of the retrofit kit later on.



STEP 2

Loosen and remove driver side lift chain on A-Frame.



STEP 3

Loosen and remove driver side angle cylinder hose.



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INSTALLING THE RAZORBACK RETROFIT KIT™

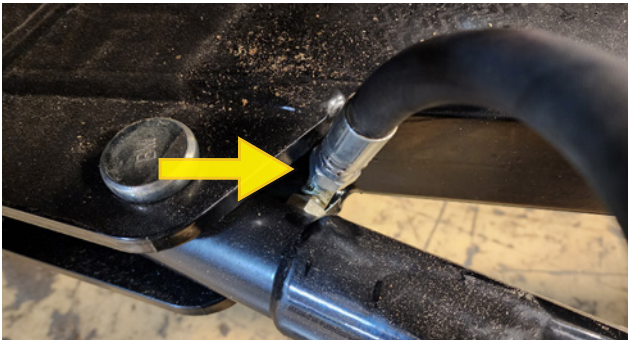
STEP 4

Loosen and remove passenger side lift chain from A-Frame.



STEP 5

Loosen and remove passenger side angle cylinder hose.



STEP 6

Support plow A-Frame at rear center point to take weight off pins. Make sure the vehicle is in Park and the parking brake is set. Ensure the jack is making full contact with rear bar. *POV under A-Frame looking towards truck rear bumper.*

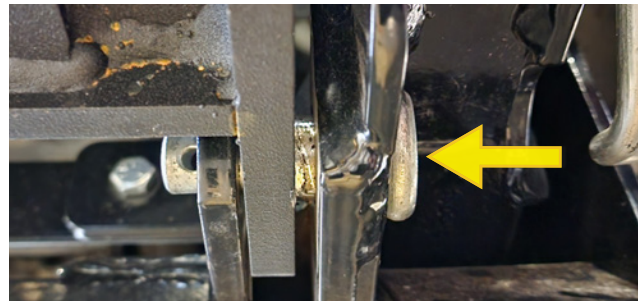


STEP 7

Once the jack is in the correct location detailed in “Step 7”, remove cotter pins and remove A-Frame pins pictured below. Driver and passenger sides.



Pictures show retaining pin already removed. You may need a hammer and punch to remove any seized pins.



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INSTALLING THE RAZORBACK RETROFIT KIT™

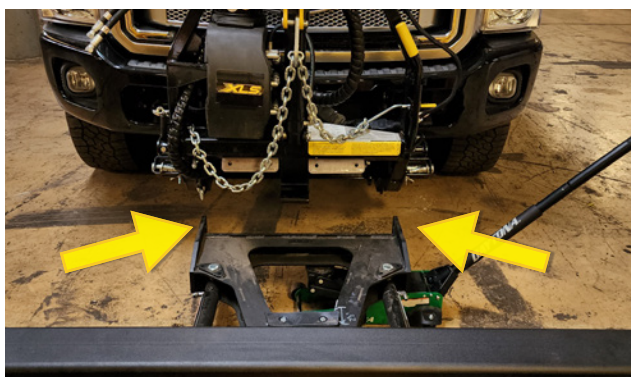
STEP 8

Ensure steps 1-7 have been correctly completed. The Fisher A-Frame and plow body should be free and no longer needed. Pictured below is the lift rack separated from the A-Frame and plow body.



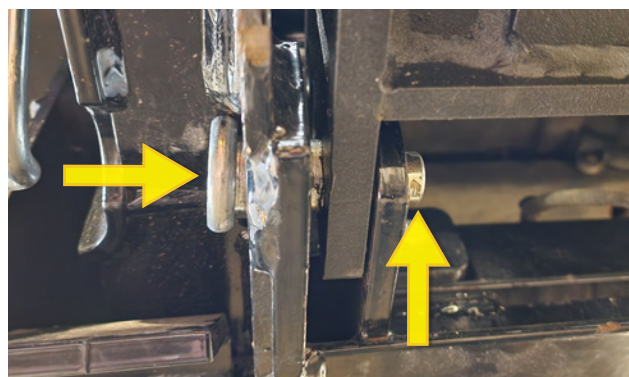
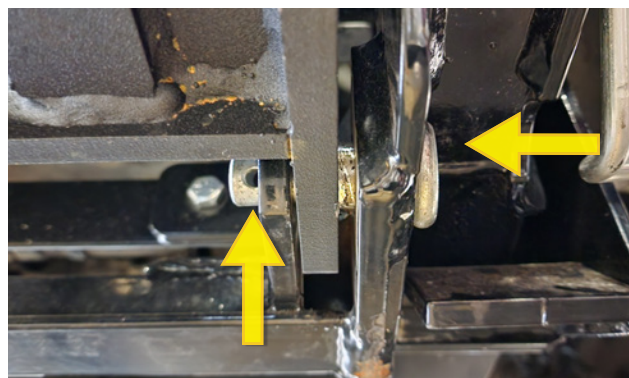
STEP 9

Align plow rack to Razorback Retrofit A-Frame. The A-Frame should be level relative to the ground when pinned to the lift rack. There are 3 possible positions to choose from.



STEP 10

Once the Razorback Retrofit A-Frame is aligned with the lift rack and the frame is level use the pins previously removed to pin the A-Frame to the rack. Select the position that leaves the frame level when pinned to the lift rack. Once the pins are in make sure to reinstall the retaining pins that keep the main pins from falling out.



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INSTALLING THE RAZORBACK RETROFIT KIT™

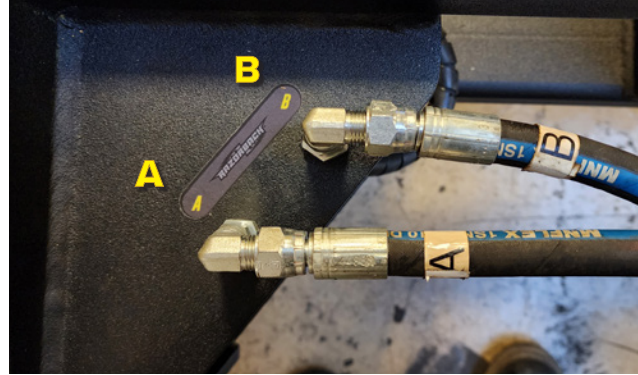
STEP 11

On the driver's side, connect the lift chain to the Razorback A-Frame.



STEP 13

Attach driver side wing hydraulic lines which are labeled "A" & "B" to ports A & B on Razorback driver side pictured below. No thread tape needed.



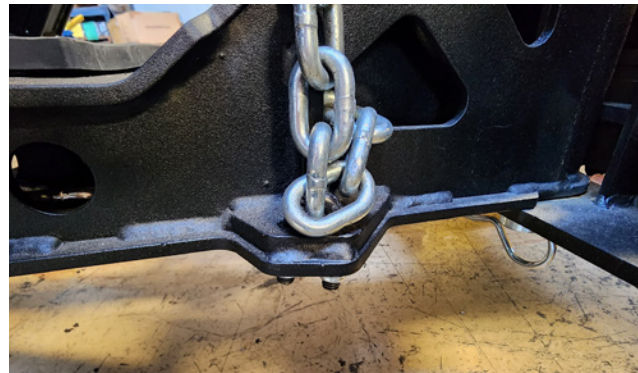
STEP 12

Attach the driver side angle cylinder hose to the driver side angle cylinder.



STEP 14

On the passenger's side, connect the lift chain to the Razorback A-Frame.



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INSTALLING THE RAZORBACK RETROFIT KIT™

STEP 15

Attach the passenger side angle cylinder hose to the driver side angle cylinder.

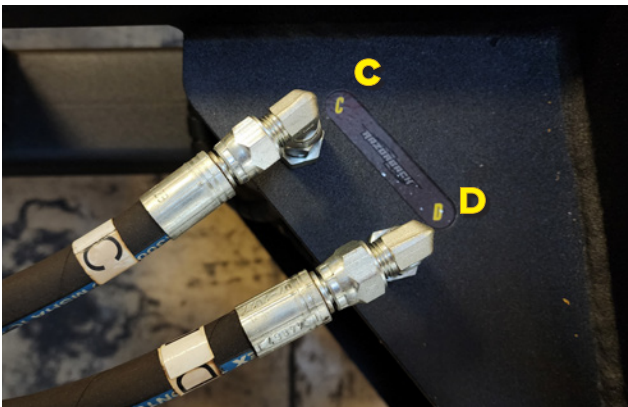


STEP 16

To avoid possible damage, the hoses for the right wing must be rerouted. The hoses are labeled “C” and “D” on the manifold. Before connecting the hoses to the Razor Back Retrofit Kit, loosen their fittings on the manifold and rotate them downward. The hoses will have to be rerouted downward to achieve this. The hoses should now be running down to the wings, versus running behind the manifold like before.

STEP 17

Attach passenger side wing hydraulic lines which are labeled “C” & “D” to ports C & D ports on Razorback passenger side pictured below. No thread tape needed.



Note for slow lifting or lift issues after Razorback Retrofit installation. Due to uncommon inconsistencies we have experienced with the pressure relief valve for the hydraulic pump motor it may become necessary to adjust it back within factory specifications. Please see OEM owner's manual for further details for potential adjustments.

STEP 18

Bump stops must be installed with the Razor Back Retrofit Kit in order avoid possible damage. The bump stops replace the Fisher bumps stops. There are 3 bump stop heights provided with the kit. They each correspond to a different A-frame height.

- When the A-frame is mounted to the bottom hole, install the bump stop that has a “B” facing the plow.
- When the A-frame is mounted to the middle hole, install the bump stop that has a “M” facing the plow
- When the A-frame is mounted to the top hole, install the bump stop that has a “T” facing the plow

The bump stop installed is shown below:



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INSTALLING THE RAZORBACK RETROFIT KIT™

STEP 20

Go through steps 1-19 again to ensure everything has been done per the instructions before operating unit.

STEP 21

Be sure to clear the area of personnel or objects that will be in the movement path of plow before using unit. Power up unit and run to inspect for possible leaks – inspecting the unit with the plow on the ground. Remedy any leaks as needed. There is going to be a lot of slop or slack (undesired movement/actions of the plow) as air is moved out of the system through use. Use caution when working the air out of the system.

STEP 22

Check fluid level once again. Fill if needed

STEP 19

Check fluid level for pump and replace lost fluid to proper operating level as necessary.



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