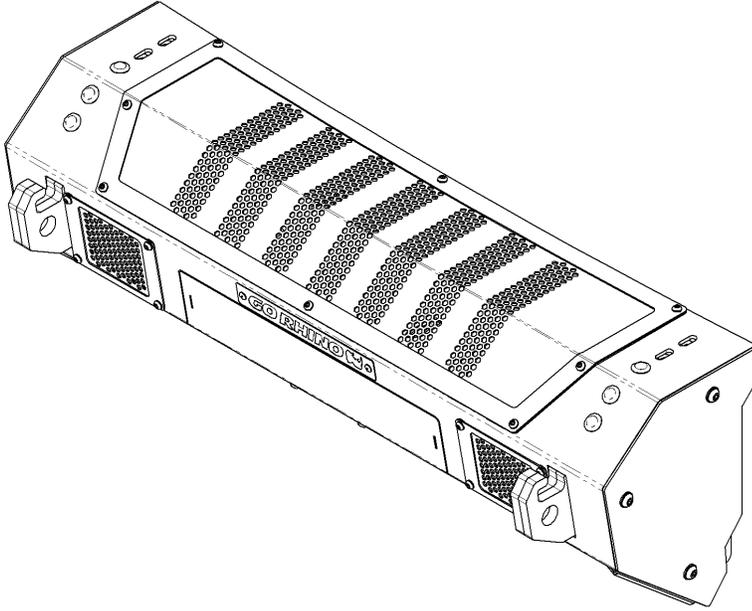


GO RHINO®

INSTALLATION INSTRUCTIONS



PART NO.

- 23100T

PRODUCT DESCRIPTION:

- Front Winch Bumper, Center Section

PRODUCT SAFETY & LEGAL DISCLAIMER

- **IMPORTANT READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING, FAILURE TO DO SO MAY CAUSE PERSONAL INJURY OR DAMAGE TO PRODUCT AND/OR PROPERTY.**
- **Review the product package and contents prior to beginning the installation.** Take care when opening the packaging and removing items. If a return is needed you will want to return the product in its original packaging if possible.
- This instruction guide is provided as a GENERAL installation guide, some vehicles vary dimensionally and may require additional steps.
- Test fit the product on the vehicle prior to any third party modifications and or finishing. The manufacturer and/or distributors do not accept responsibility for third party charges, labor and or third part replacement modifications. Some modifications may void the factory warranty.
- Exercise due-diligence when installing this product. The manufacturer and distributors of this product do not accept any responsibility for vehicle damage or personal injury resulting from the installation of this product. Careless installation and operation can result in serious injury or equipment damage.
- This product is for general off-road use. All liability for installation and use rests with the owner/operator.
- **INSTALLER:** Once installation is complete, please return this guide along with other documentation included in this product back to the consumer for future reference. The manufacturer/distributors of this product do not guarantee this particular version will be available at a later date.

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www.gorhino.com

589 W. Apollo St., Brea, CA 92821

P: 888 427 4466



INSTALLATION INSTRUCTIONS

INJURY HAZARD

Please complete a shop and tool inspection prior to beginning the installation.

- Always make sure you have a clean, dry and well lit work area.
- Always remove jewelry, loose fitting clothing and wear protective gloves and eye protection.
- Always use extreme caution when jacking or raising a vehicle for work. Set the emergency brake and use tire/wheel blocks and jack stands. Refer to the vehicle manufacturer hand book. Utilize the vehicle manufacturers designated lifting points.
- Always use appropriate and adequate care in lifting parts during disassembly and installation. Seek help in lifting heavy or large items into place. Utilize jacks and or lifting devices when available.
- Always insure products are secure during disassembly and installation.
- Always wear eye protection and take steps to protect any exposed skin during the installations. Drilling, cutting and grinding plastic and metal may create flying particles that can cause injury.
- Always use extreme caution when drilling, cutting and or grinding on a vehicle. Thoroughly inspect the area to be drilled, on both sides of material, prior to modification and relocate any objects that may become damaged.
- Always assemble and tighten all fasteners per the installation instructions.
- Always route electrical cables carefully. Avoid moving parts, parts that may become hot and rough or sharp edges.
- Always insulate and protect all exposed wiring and electrical connections.

MAINTENANCE AND CARE

- Always perform regular inspections and maintenance on mounts and related fasteners.
- Periodically check and tighten all fasteners.
- Stripped, fractured, or bent fasteners must be replaced.
- After washing the vehicle make sure to fully dry all surfaces.
- In areas with cold temperatures make sure to wash the product often to remove harmful materials used on road ways.
- Never use abrasive cleaners or polish compounds. Clean with a gentle soap and water. If you use wax use a non-abrasive automotive wax such as pure carnauba wax.

WARNING

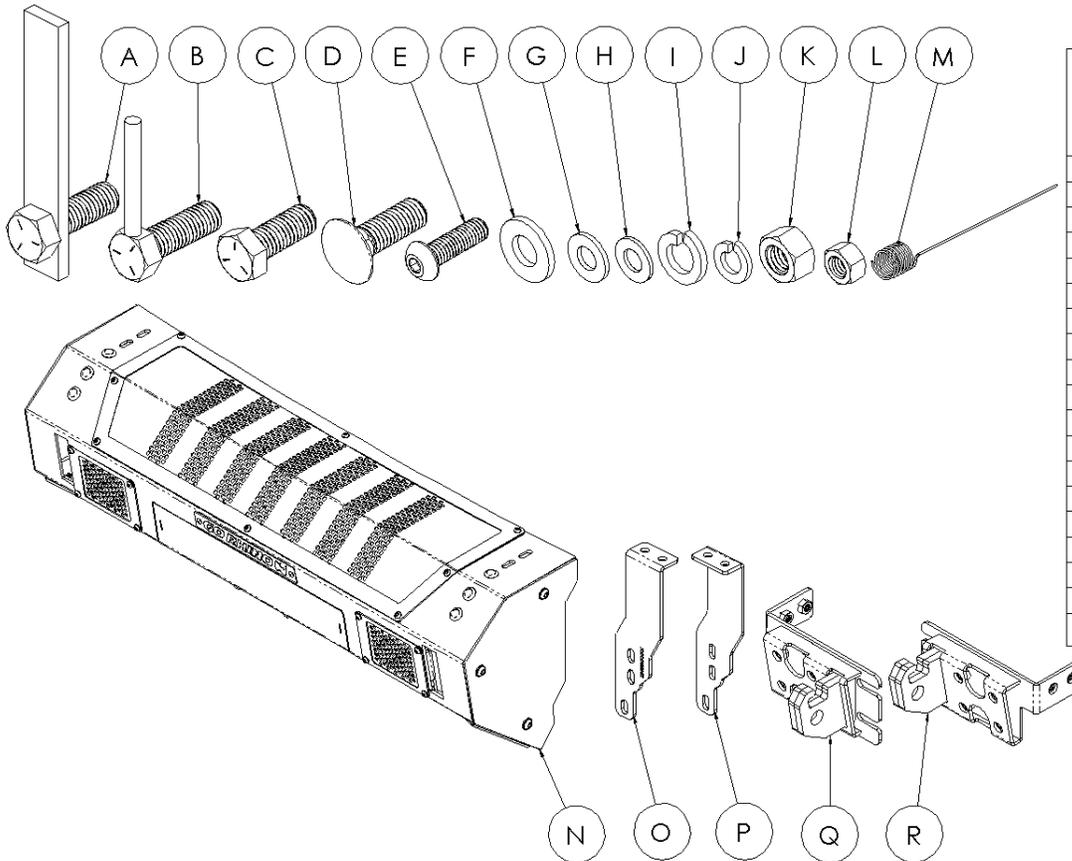
Some products have been designed to work together with factory rear sensor systems, factory forward facing sensor systems and factory air bags.

- Installation of some of these products may alter the factory sensor system performance.
- Factory sensors may read shackles or hooks protruding from the fairlead and or tow hooks.
- All sensor testing is completed by Go Rhino Products and or third party testing labs on modified vehicles.
- Sensor sensitivity, factory sensor housing, orientation, and operating conditions are all variables that will influence functionality of the sensors.
- Installation of some product may effect the factory air bag systems.
- Some products allow the use of third party products such as winches, shackles, hooks, etc. Follow the respective manufacturers operating instructions for use with our products.
- Make sure to fully understand the product, it's intended use and operation prior to use.
- Above all... be safe!

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INSTALLATION INSTRUCTIONS

PARTS INCLUDED IN THIS LIST:



23100T FRONT WINCH BUMPER, CENTER SECTION		
ITEM	QTY.	DESCRIPTION
A	2	1/2" BOLT PLATE
B	4	1/2" BOLT ROD
C	14	1/2"-13 x 1-1/4" HEX HEAD BOLT
D	8	1/2"-13 x 1-1/2" CARRIAGE BOLT
E	4	3/8"-16 x 1-1/4" BUTTON HEAD BOLT
F	28	1/2" FLAT WASHER
G	4	3/8" FLAT WASHER
H	4	3/8" PLASTIC WASHER
I	24	1/2" SPLIT LOCK WASHER
J	4	3/8" SPLIT LOCK WASHER
K	12	1/2"-13 HEX NUT
L	2	3/8"-16 HEX NUT
M	1	1/2" FISH WIRE BOLT GUIDE
N	1	FRONT WINCH BUMPER-CENTER SECTION
O	1	AUXILIARY MOUNTING BRACKET-PASSENGER SIDE
P	1	AUXILIARY MOUNTING BRACKET- DRIVER SIDE
Q	1	MOUNTING BRACKET-DRIVER SIDE
R	1	MOUNTING BRACKET-PASSENGER SIDE
ITEM	QTY.	DESCRIPTION

Go Rhino recommends you, the installer, read this installation instruction manual from front to back before installing the product. You may also [click here](#) to view an installation video or visit <http://www.gorhino.com/Installation-Videos>.

TOOLS NEEDED FOR INSTALLATION:

- Sockets: 3/4", 10mm and 18mm
- Wrenches: 3/4" and 10mm
- 7/32" and 5/32" Hex Driver
- Phillips and Slotted Screwdriver
- Square Drive Ratchet and Ratchet Extension
- Swivel Joint Adapter

ESTIMATED TIME FOR INSTALLATION:

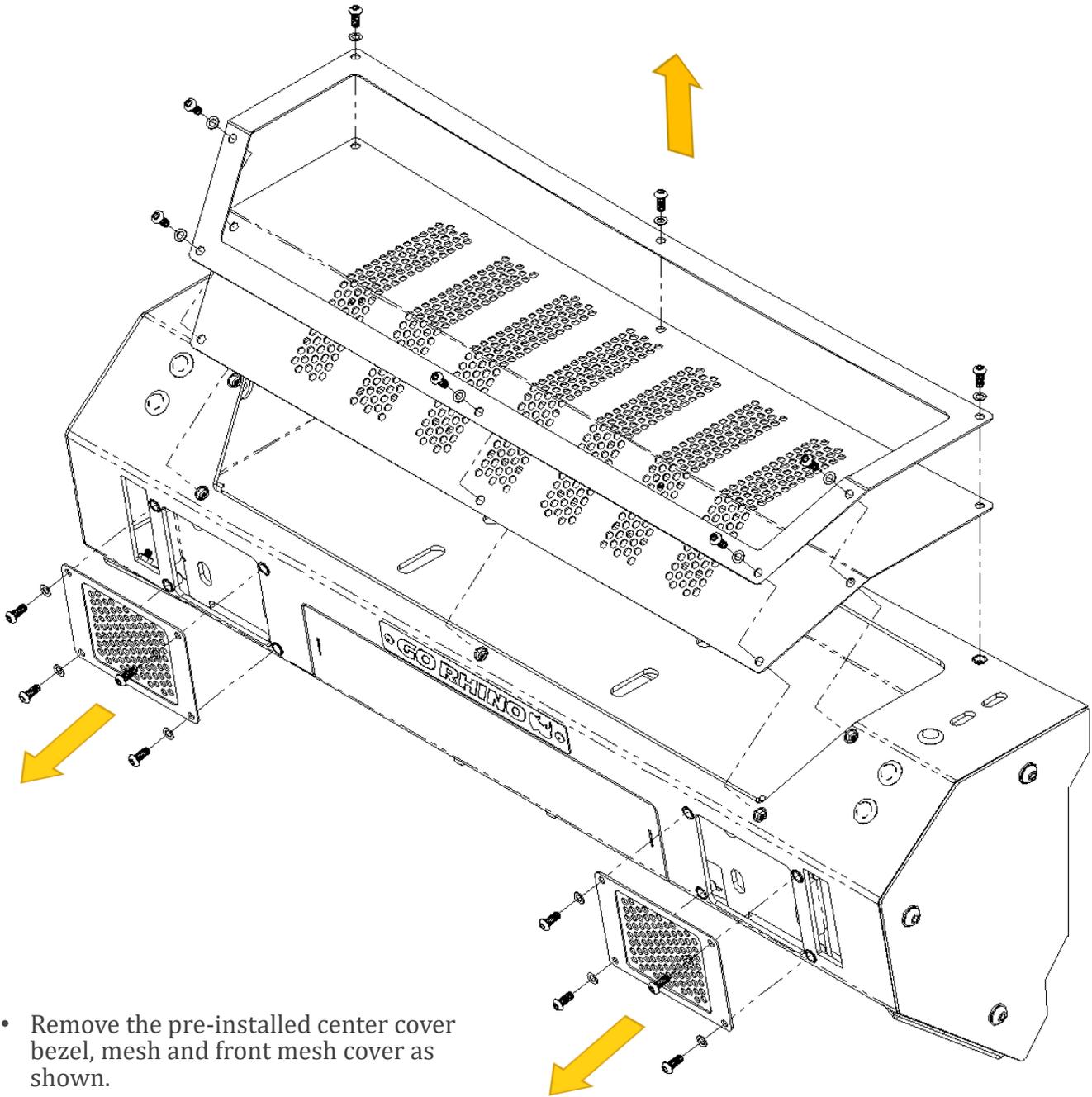
2 Hours

If you need installation service for your new product, call the authorized distributor from whom you purchased the product or an authorized installation service company which can be found by calling toll free 1-888-427-4466

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INSTALLATION INSTRUCTIONS

STEP # 1

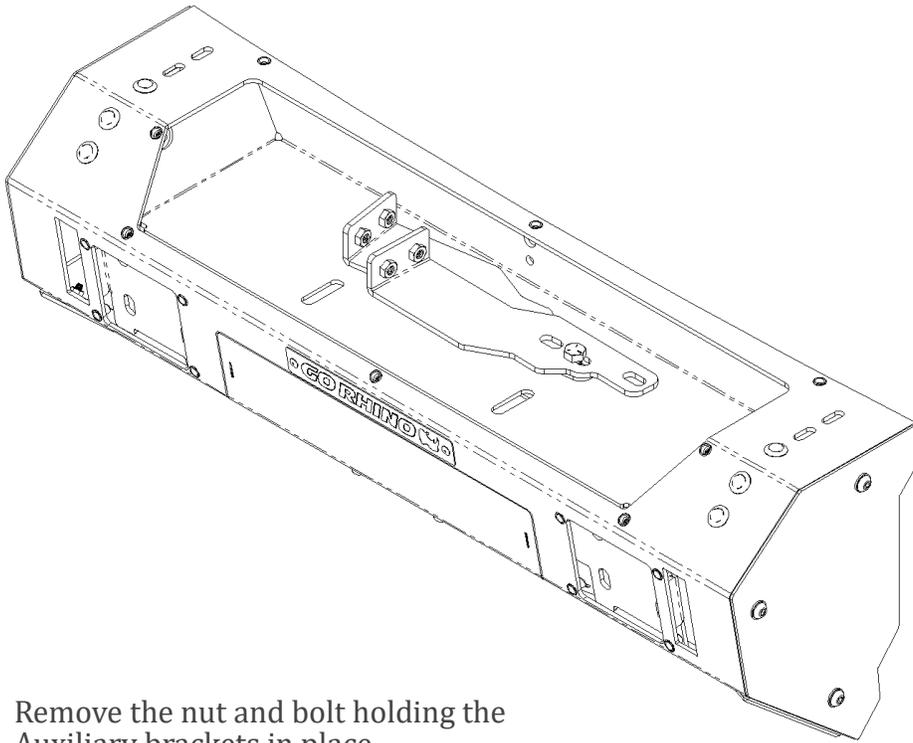


- Remove the pre-installed center cover bezel, mesh and front mesh cover as shown.

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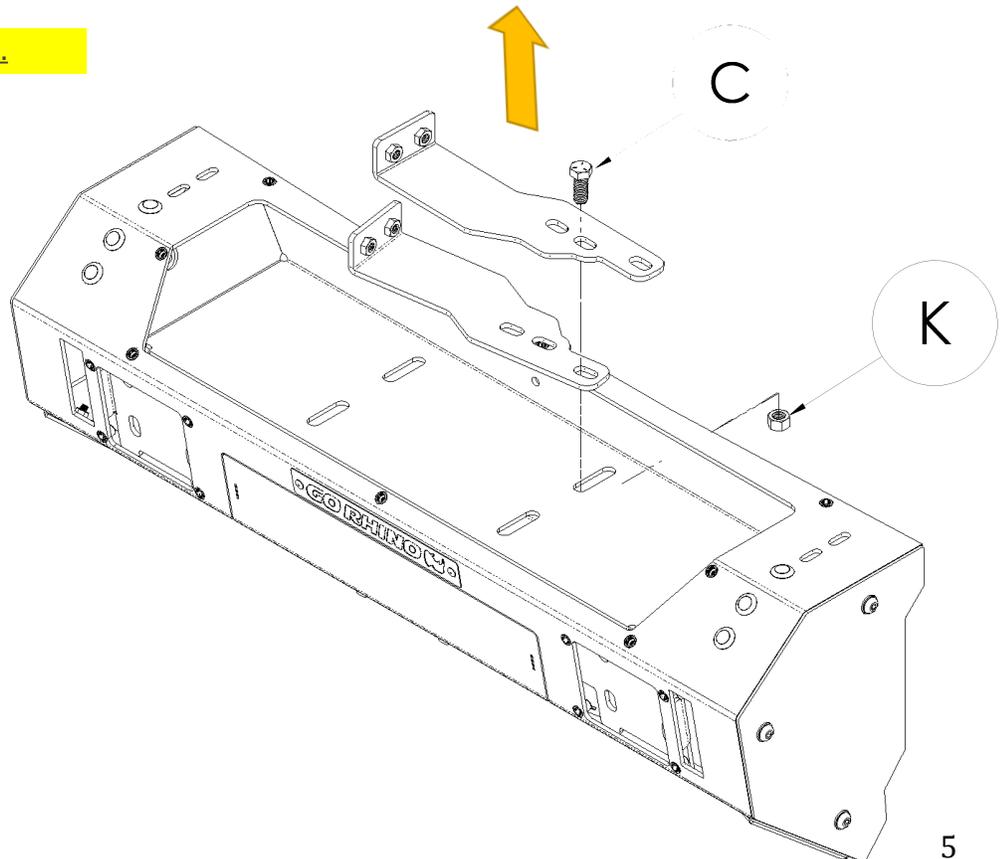
INSTALLATION INSTRUCTIONS

STEP # 2



- Remove the nut and bolt holding the Auxiliary brackets in place.

- **Keep all hardware for installation.**

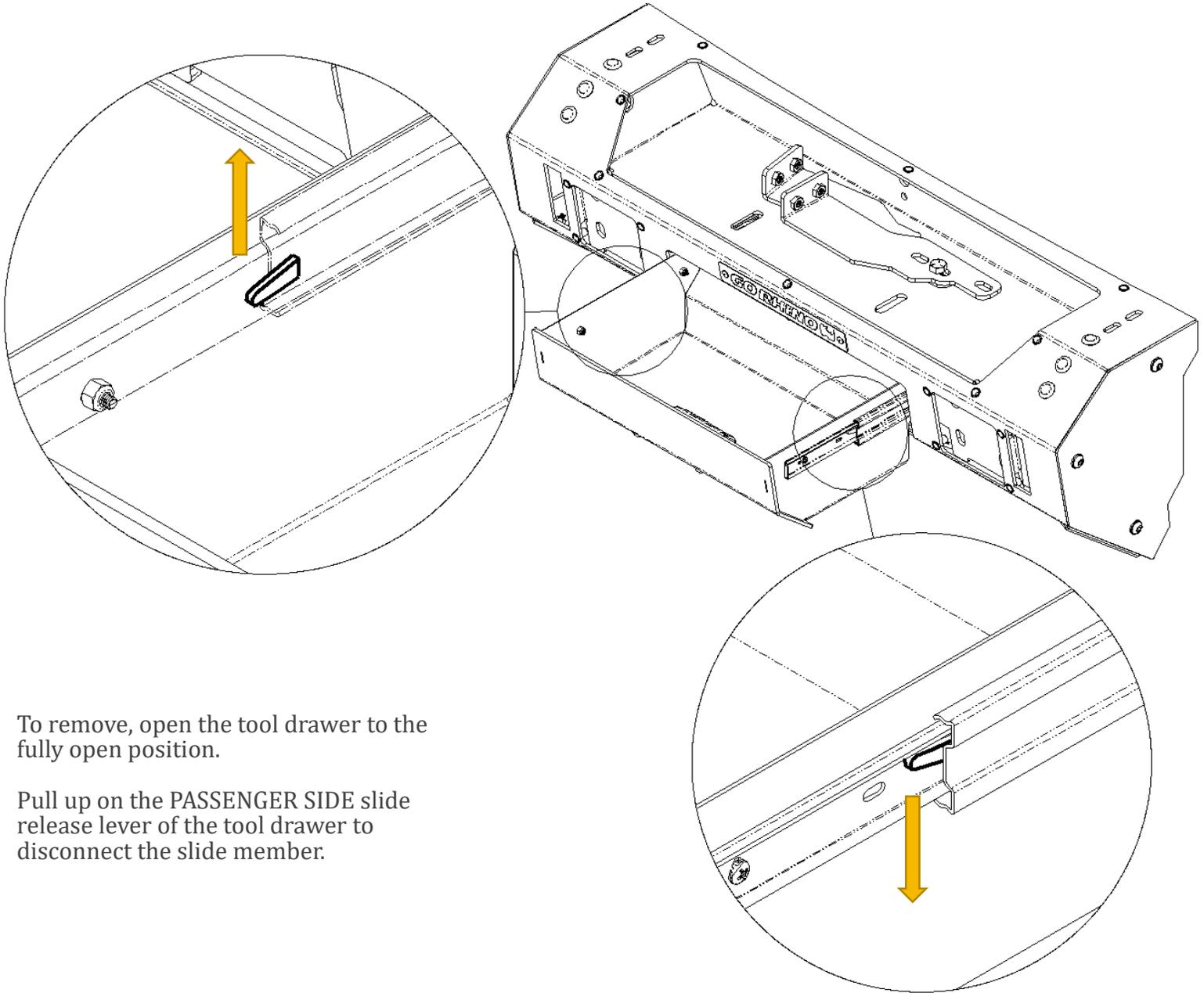


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INSTALLATION INSTRUCTIONS

STEP # 3

- The pre-installed tool drawer must be removed.



- To remove, open the tool drawer to the fully open position.
- Pull up on the PASSENGER SIDE slide release lever of the tool drawer to disconnect the slide member.

- Press down on the DRIVER SIDE slide release lever of the tool drawer to disconnect the slide member. Once both sides are disconnected pull the tool drawer forward and remove it.

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INSTALLATION INSTRUCTIONS

STEP # 4



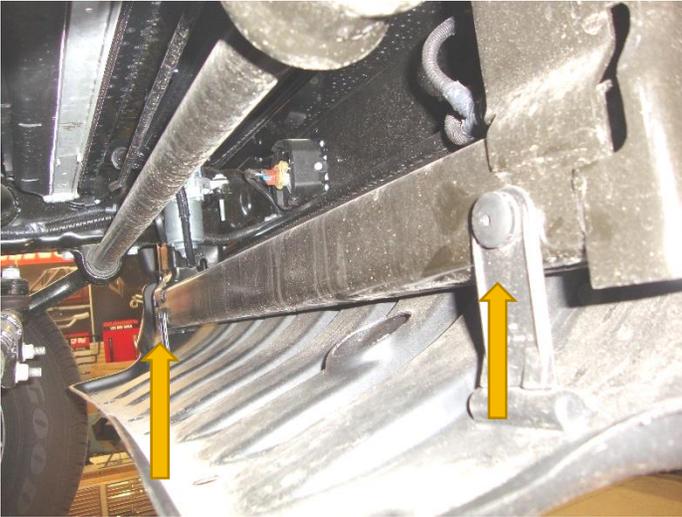
- Open hood and disconnect the vehicle battery or batteries.
- Begin by using a slotted screwdriver to pry and remove the 4 plastic push pins securing the air dam to the factory bumper.



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INSTALLATION INSTRUCTIONS

STEP # 5



- Remove the 2 plastic pushpins securing the rear of the air dam to the frame cross member.
- Remove the air dam from the underside of the vehicle.

STEP # 6



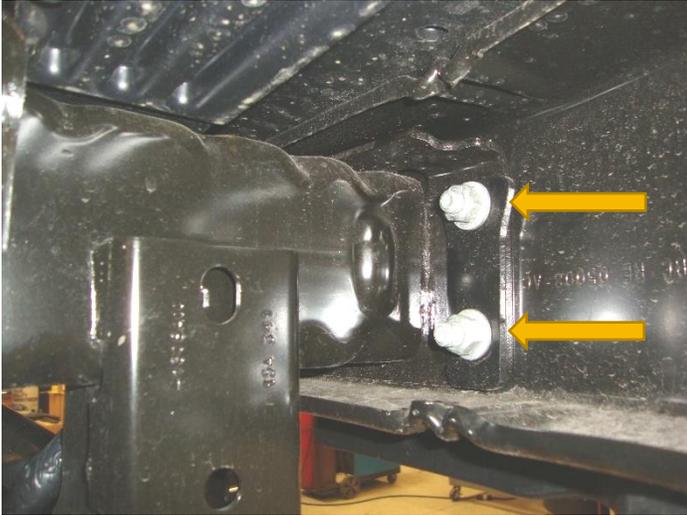
- If equipped, disconnect the wiring harness from the fog lights.
- Unclip the cable ties securing the wiring harness to the bumper.

Do to the relocating of the factory fog lights into the new bumper, the factory fog light wiring harness will require splicing in of several inches of wire onto each side in order to extend the plugs. **THIS ONLY APPLIES IF MODULAR END CAPS WERE PURCHASED, IF NOT, FOG LIGHTS MUST BE REMOVED.**

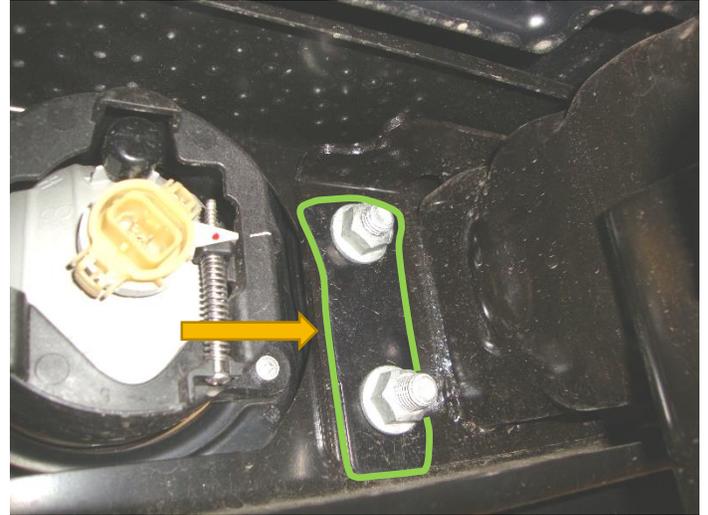
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INSTALLATION INSTRUCTIONS

STEP # 7



- Remove the 4 nuts from the studs securing the factory bumper to the frame using an 18mm socket. Both sides.



- Remove the 4 backing plates behind the nuts and save for installation with supplied frame brackets.
- With assistance remove the factory bumper from the vehicle and set aside.

STEP # 8



- Using a Phillips screwdriver remove the 2 fasteners securing the frame cover.
- Remove cover .

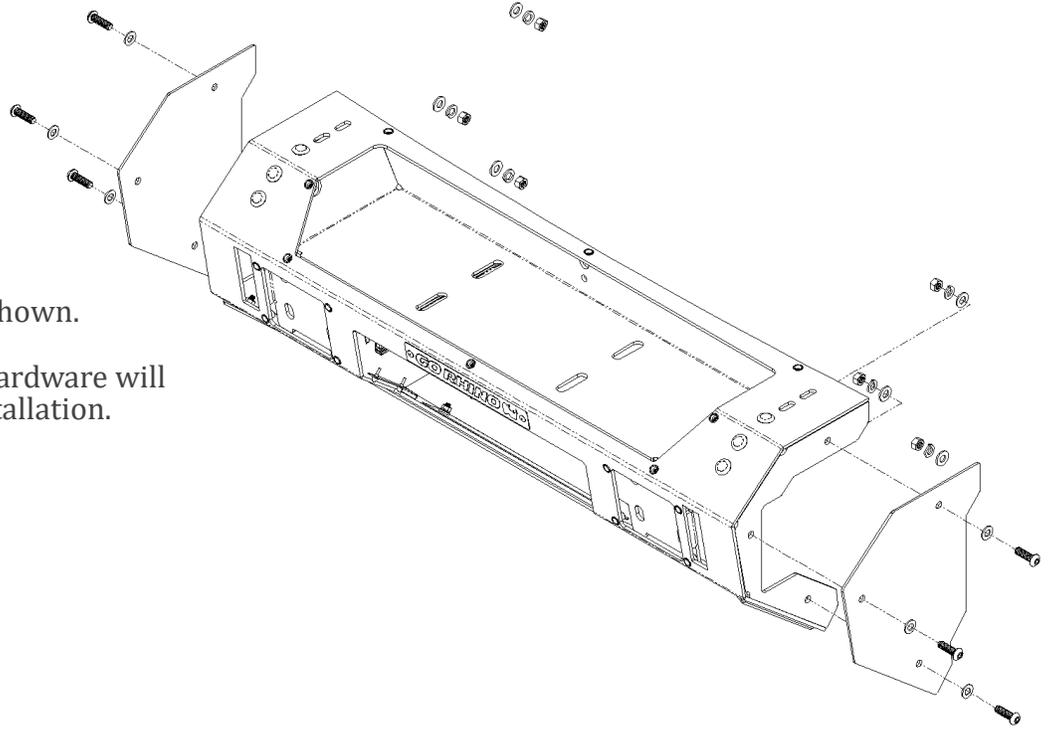
GO RHINO®

INSTALLATION INSTRUCTIONS

THIS SECTION REFERS ONLY TO INSTALLATION OF THE BRJ40 MODULAR FRONT BUMPER END CAPS IF PURCHASED (END CAPS SOLD SEPARATELY)

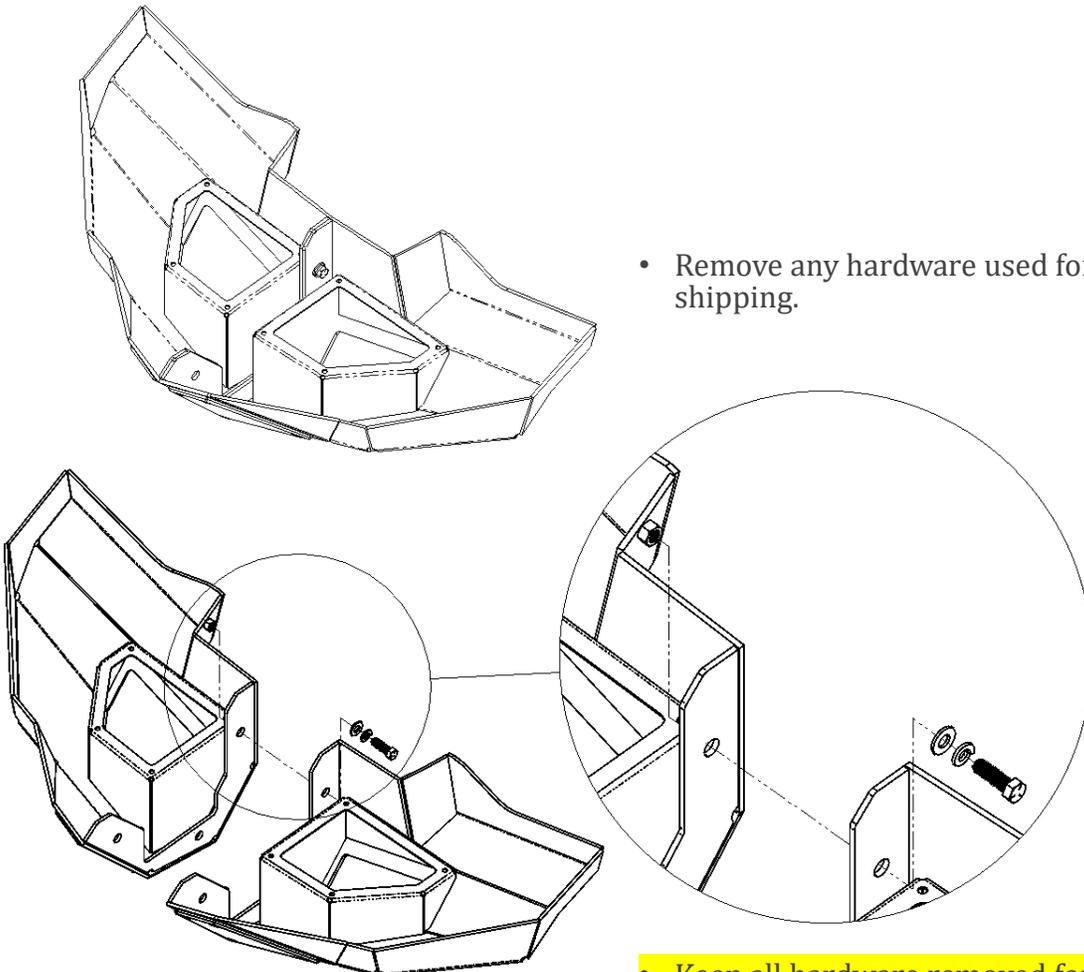
STEP # 1

- Remove the side plates as shown.
- Side plates and side plate hardware will not be used for end cap installation.



STEP # 2

- Remove any hardware used for shipping.



- **Keep all hardware removed for installation.**

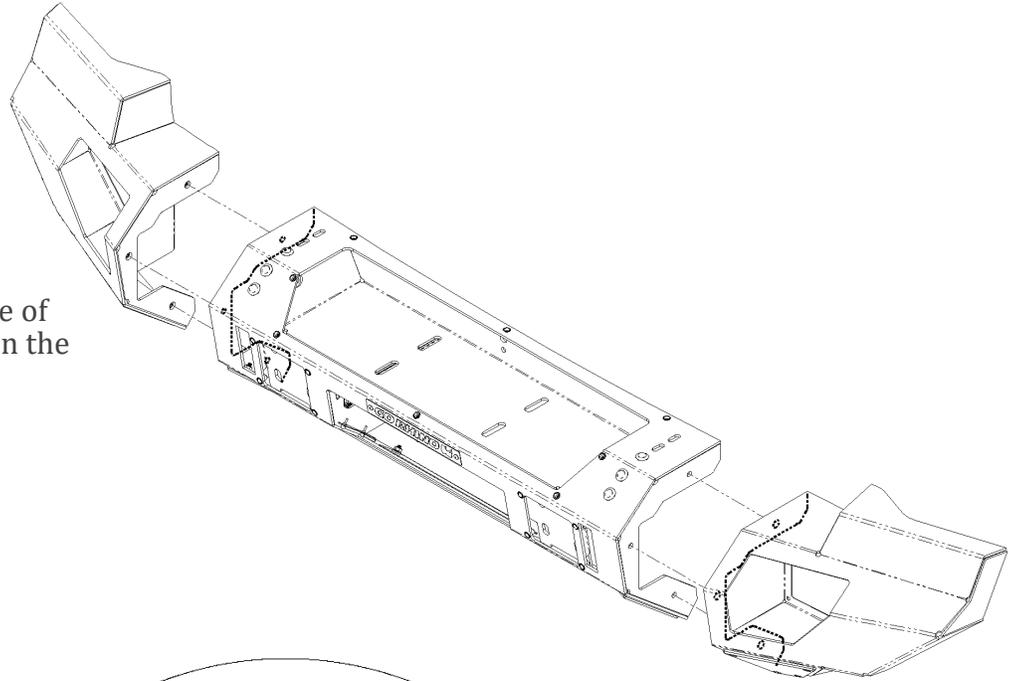
GO RHINO®

INSTALLATION INSTRUCTIONS

THIS SECTION REFERS ONLY TO INSTALLATION OF THE BRJ40 MODULAR FRONT BUMPER END CAPS IF PURCHASED (END CAPS SOLD SEPARATELY)

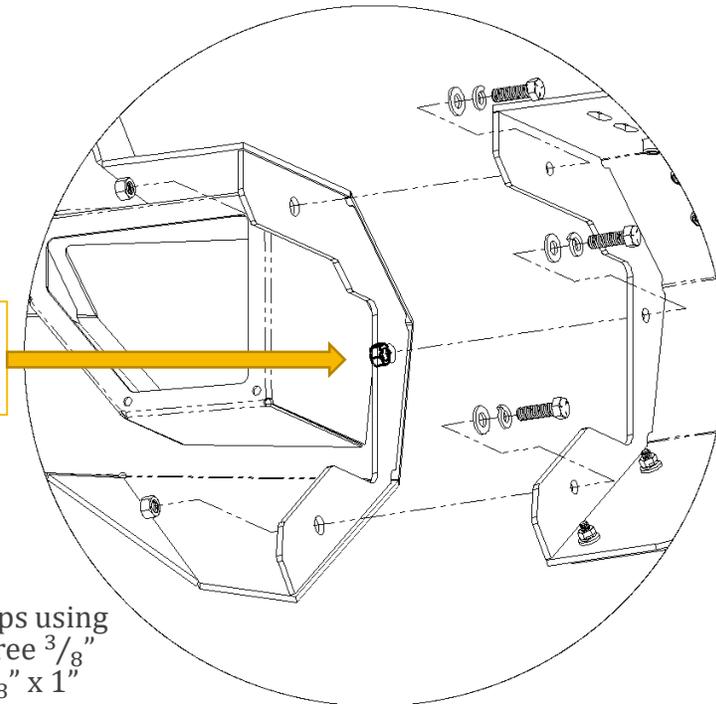
STEP # 3

- Align the three holes in the flange of the bumper with the weld nuts on the flange of the end cap.

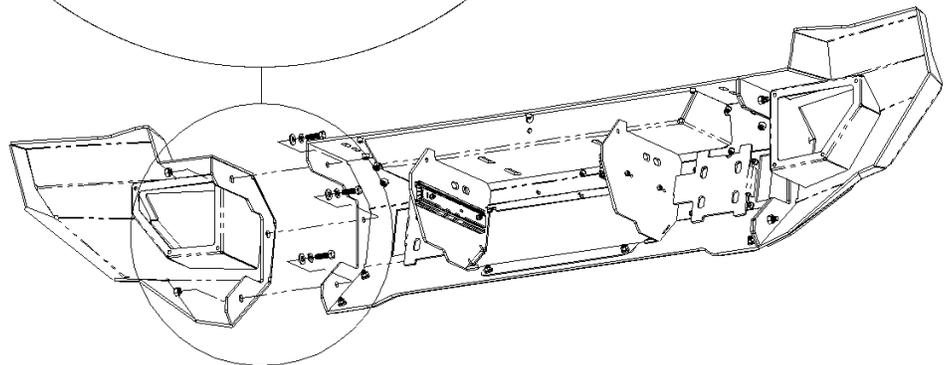


STEP # 4

- Weld nut located on center mounting hole



- Attach the bumper end caps using three $\frac{3}{8}$ " flat washers, three $\frac{3}{8}$ " lock washers and three $\frac{3}{8}$ " x 1" hex bolts and two $\frac{3}{8}$ " hex nuts Both sides.



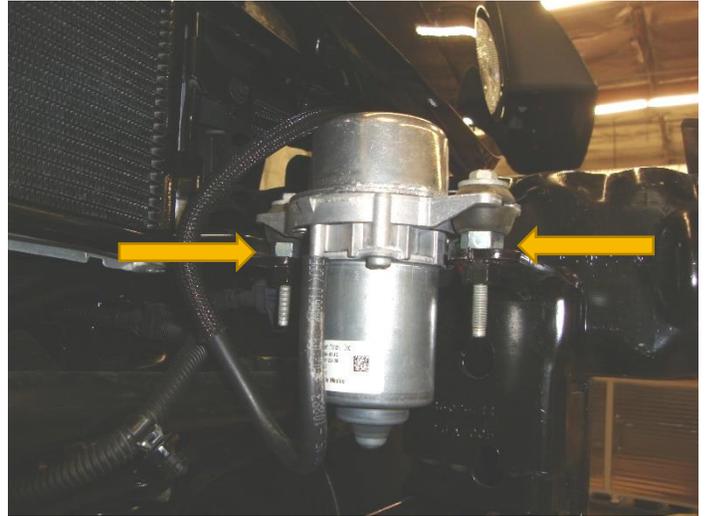
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INSTALLATION INSTRUCTIONS

STEP # 9

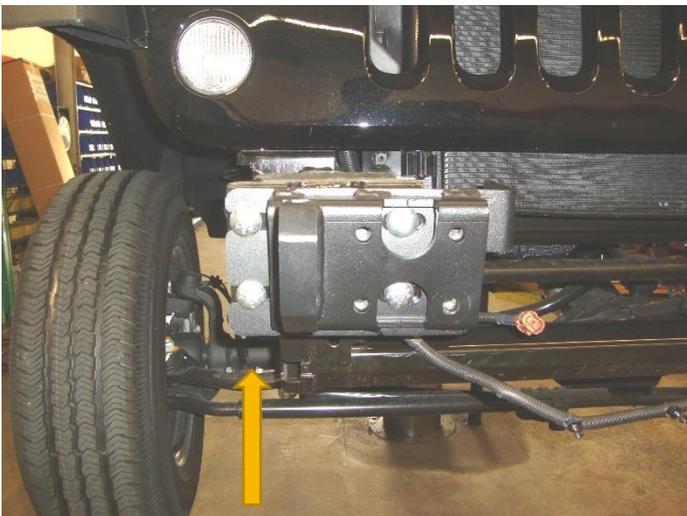


- Remove the 2 bolts securing the vacuum canister using a 10mm socket.
- Lift and rotate canister clockwise 180 degrees.



- Raise the canister by placing two 3/8" hex nuts under the mounting flanges.
- Reinstall and tighten the factory bolts.

STEP # 10



- Position passenger side Mounting Bracket to end of frame on vehicle passenger side. Align holes on bracket to holes on frame.
- Secure mounting bracket using four 1/2" X 1 1/2" long carriage bolt.



- Reinstall the factory backing plates.
- Use four 1/2" flat washers, four 1/2" lock washers and four 1/2" hex nuts on back side.
- Leave the nuts and bolts loose for final adjustment.

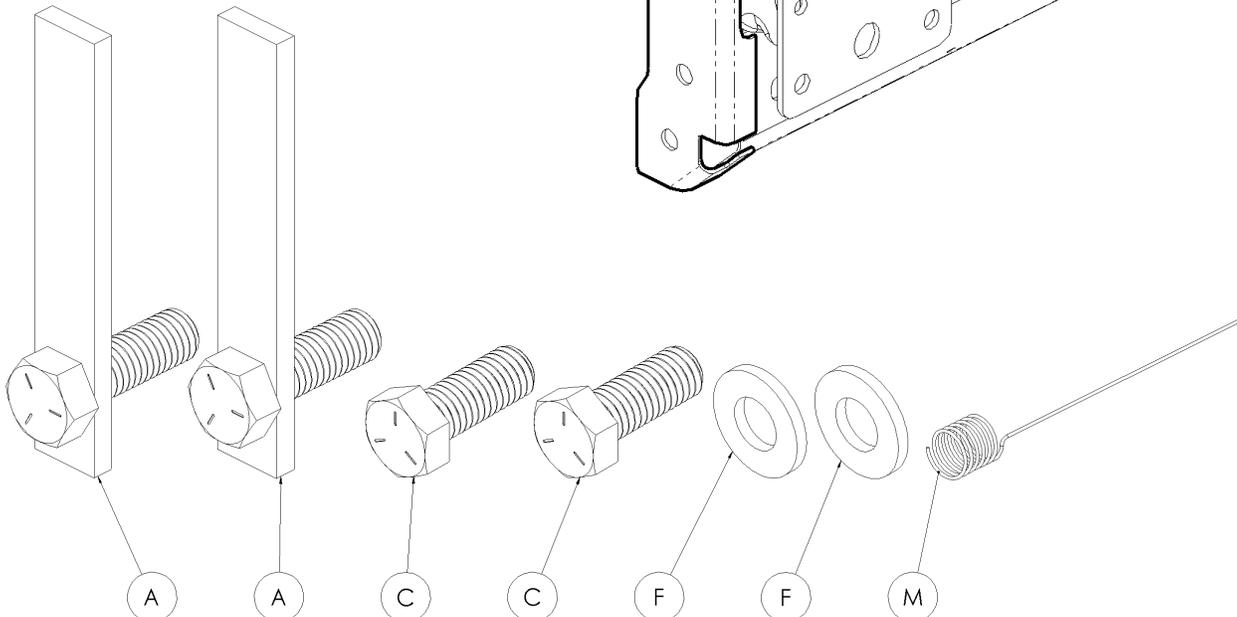
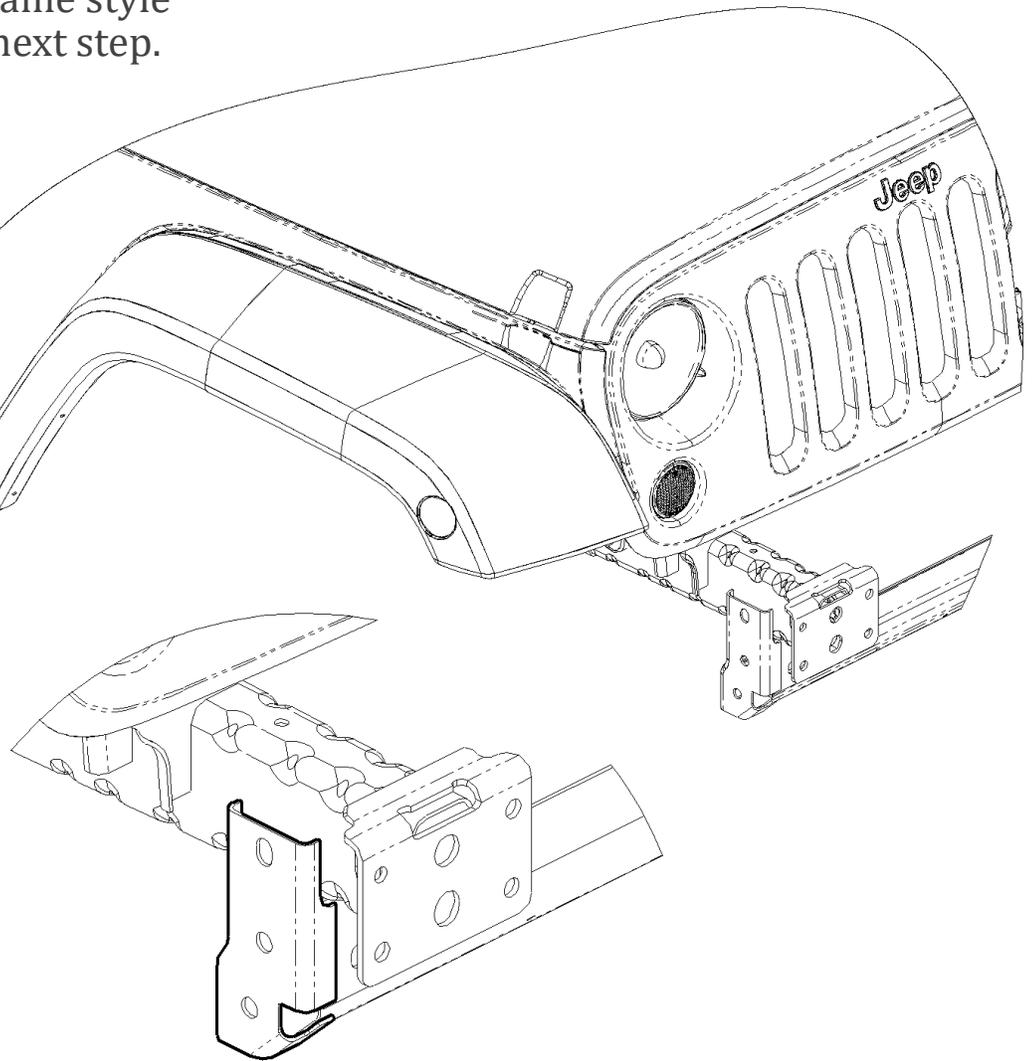
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INSTALLATION INSTRUCTIONS

FRAME STYLE # 1

NOTE: Confirm vehicle frame style before moving on to the next step.

- If vehicle is equipped with frame style #1 the following hardware will be required.
- Two ½" bolt plates, two ½" hex head bolts, two ½" flat washers and ½" bolt guide.

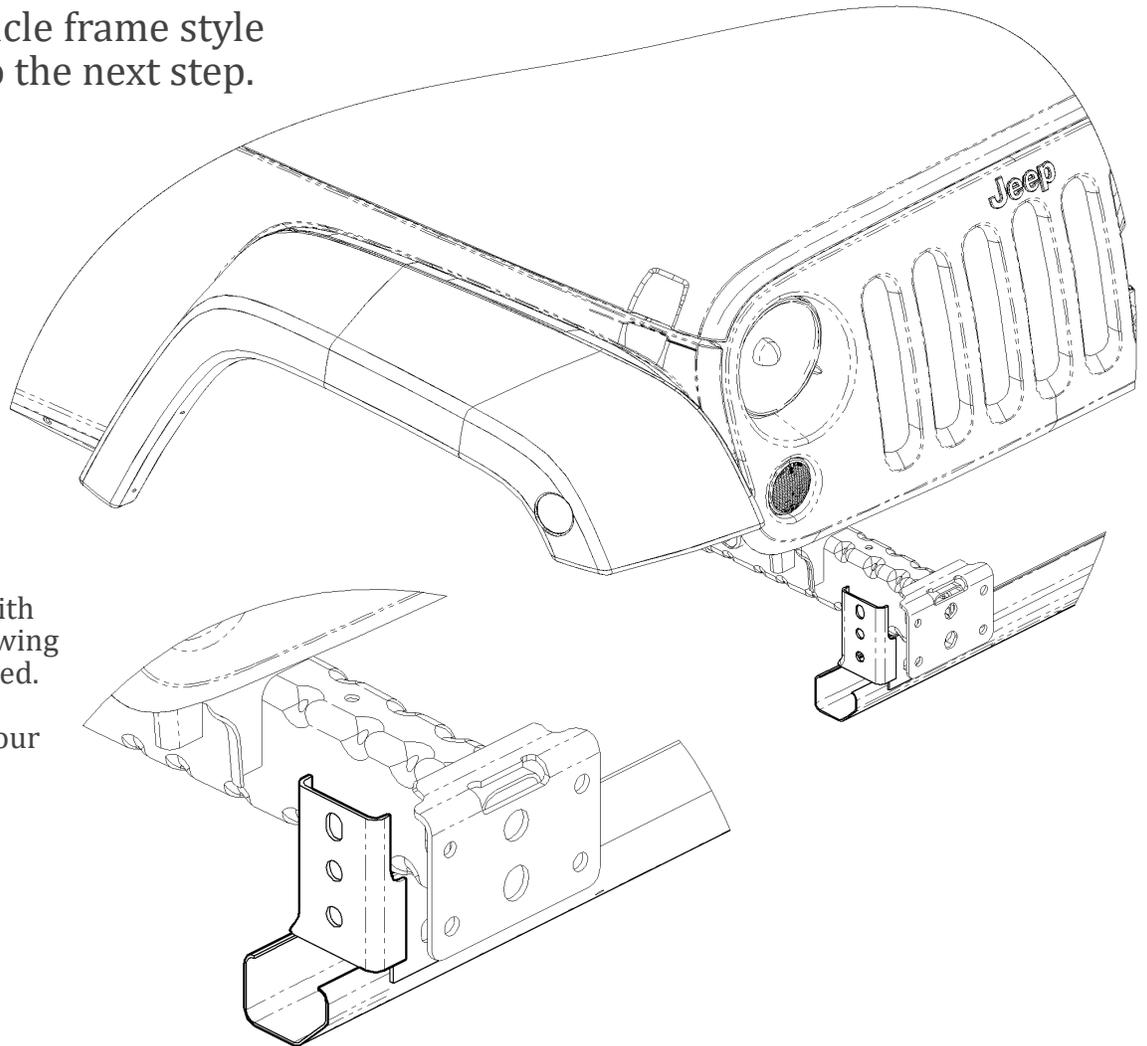


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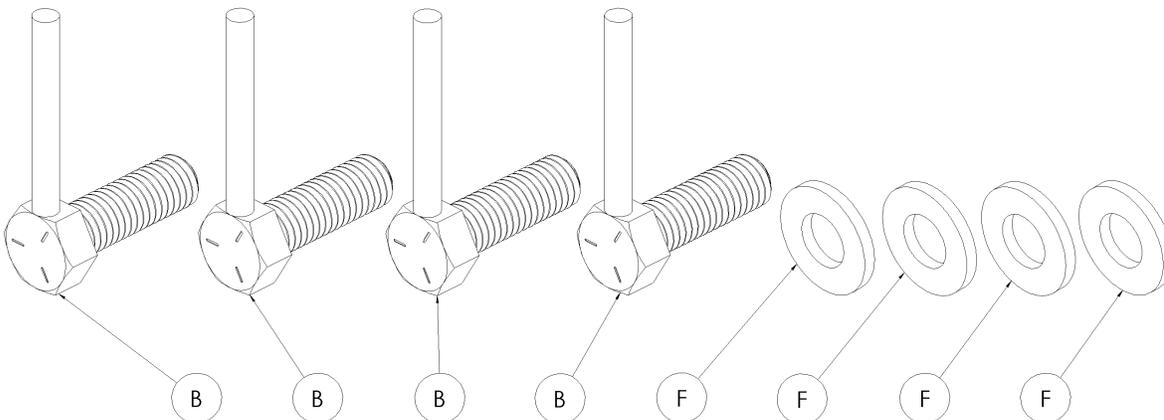
INSTALLATION INSTRUCTIONS

FRAME STYLE # 2

NOTE: Confirm vehicle frame style before moving on to the next step.



- If vehicle is equipped with frame style #2 the following hardware will be required.
- Four ½" bolt rods and four ½" flat washers.
- Move on to STEP #13



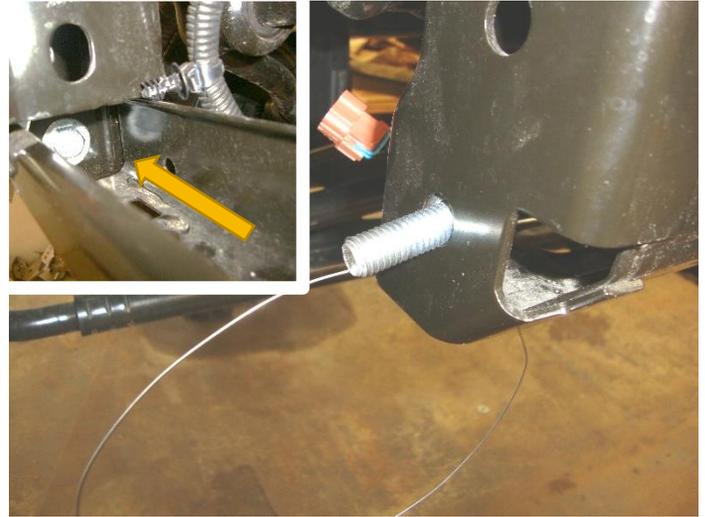
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INSTALLATION INSTRUCTIONS

STEP # 11



- Install a 1/2" flat washer on one of the supplied 1/2" x 1 1/4" hex bolts.
- Wrap the coiled end of the fish wire around the end of the bolt.



- Use the opening in the top of the frame cross member to pull the bolt through the lower hole in the cross member bracket.
- Passenger side shown.

STEP # 12



- Insert one of the supplied 1/2" bolt plates through frame opening as shown.

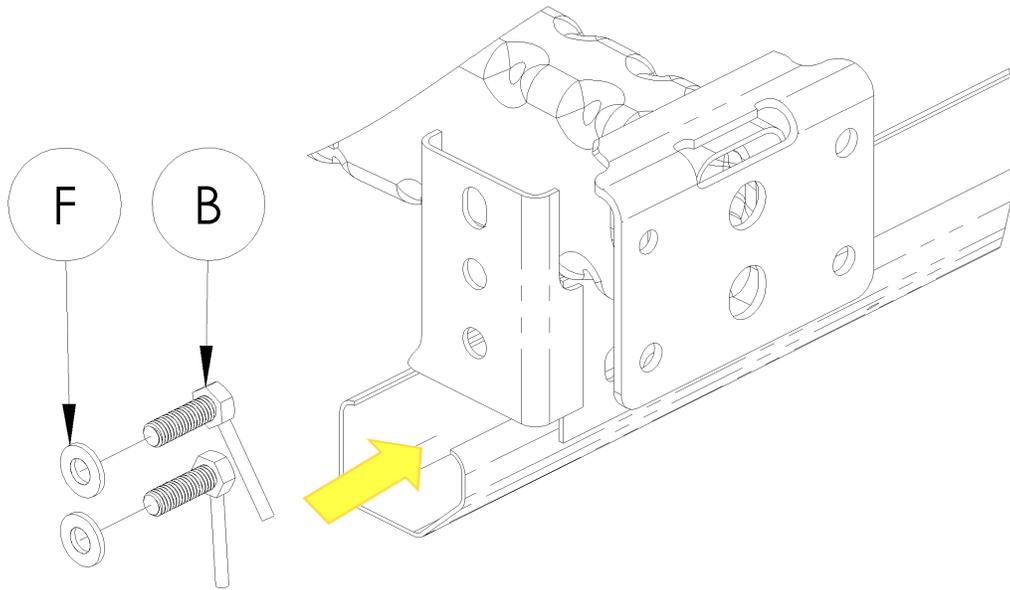


- Use the bolt plate to pull the bolt through the upper hole.
- Bolt plate should rest on frame as show.

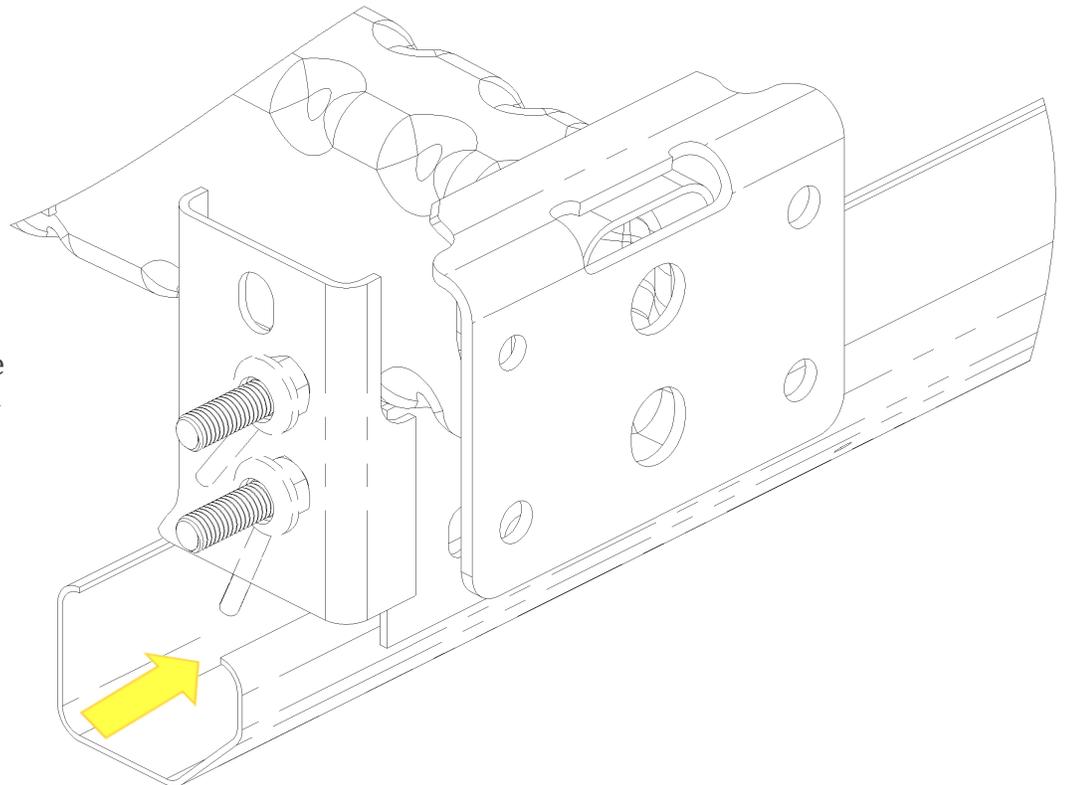
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INSTALLATION INSTRUCTIONS

STEP # 13



- Install a ½" flat washer onto the supplied ½" bolt rods.

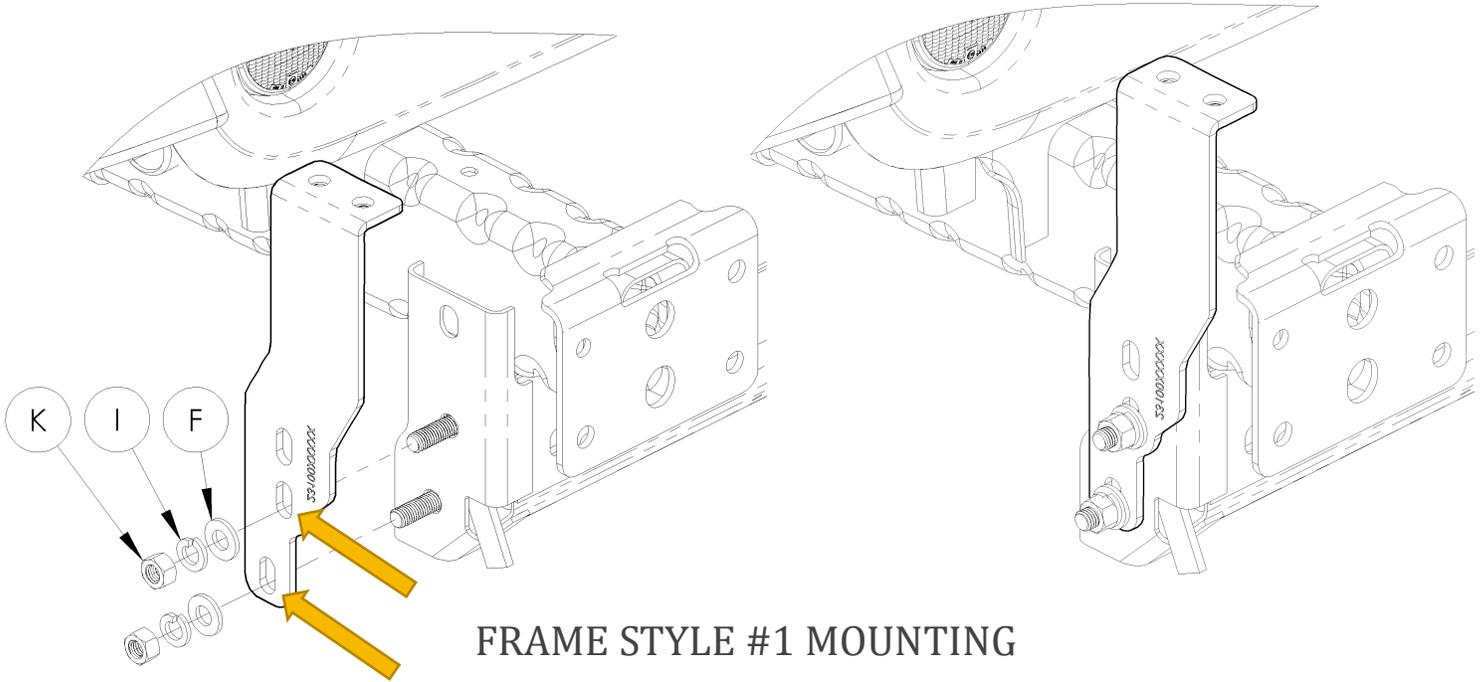


- Use the bottom opening of the frame cross member to install the bolt rods.
- Use the rod to pull the bolt through the holes as shown.
- Passenger side shown.

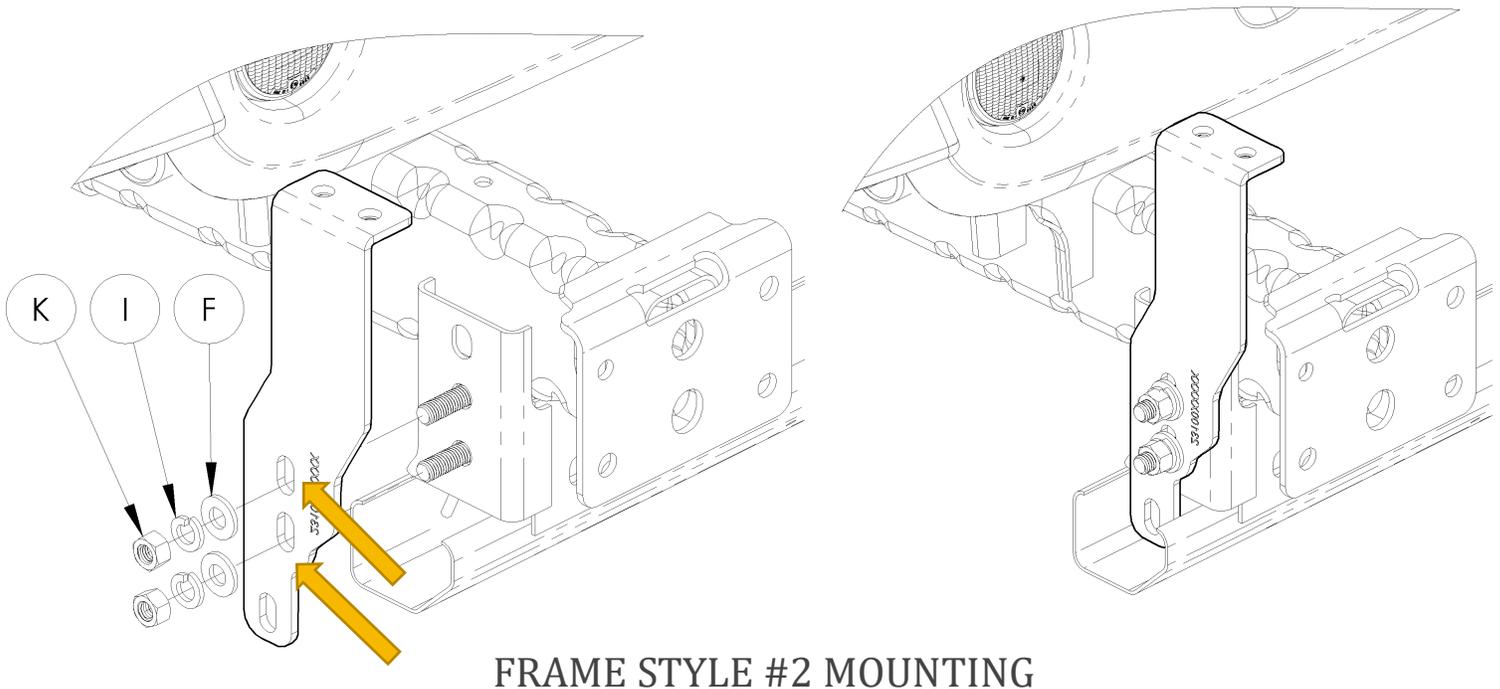
GORRHINO[®]

INSTALLATION INSTRUCTIONS

STEP # 14



- Install passenger side Auxiliary Bracket onto 1/2" bolts.
- Use two 1/2" flat washers, two 1/2" lock washers and two 1/2" hex nuts. Leave loose for final adjustment.
- Repeat steps on driver side.



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INSTALLATION INSTRUCTIONS

STEP # 15



- Mask off Rhino hook to prevent scratching, both sides

STEP # 17



- Align the holes in the bumper interior with weld nuts on the Mounting Bracket.
- Use two 1/2" flat washers, two 1/2" lock washers and two 1/2" x 1 1/4" hex bolts to secure bumper. Leave loose for final adjustment.

STEP # 16



- With assistance, lift the bumper up to the vehicle and align holes on bumper with weld nuts on mounting bracket.
- Use four 1/2" flat washers, four 1/2" lock washers and four 1/2" x 1 1/4" hex bolts to secure bumper.
- Leave the nuts and bolts loose for final adjustment.

STEP # 18



- Align the top bumper holes with weld nuts on Auxiliary Bracket.
- Use two 3/8" plastic washers, two 3/8" flat washers, two 3/8" lock washers and two 3/8" x 1 1/4" button head screws to secure bumper. Leave loose for final adjustment.

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INSTALLATION INSTRUCTIONS

STEP # 19



- With assistance, visually align and hold bumper in place.
- Tighten the bolts securing the bumper to the Mounting Brackets and Auxiliary Brackets.
- Tighten the nuts and bolts securing the Mounting Brackets and Auxiliary Brackets to the frame.
- Reinstall center cover bezel, mesh and front mesh cover using hardware saved from step one.
- Tighten screws to 70 in/lbs Max. DO NOT OVERTIGHTEN SCREWS
- Reconnect the factory fog lights and vehicle battery.
- Check and retighten all nuts and bolts periodically.

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INSTALLATION INSTRUCTIONS

STEP # 20



- Drawer installation.
- Fully retract slides and install drawer in this position.

STEP # 21



 **CORRECT**



 **INCORRECT**

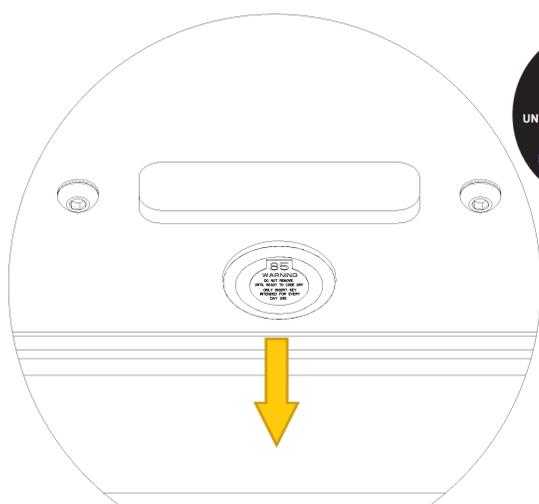
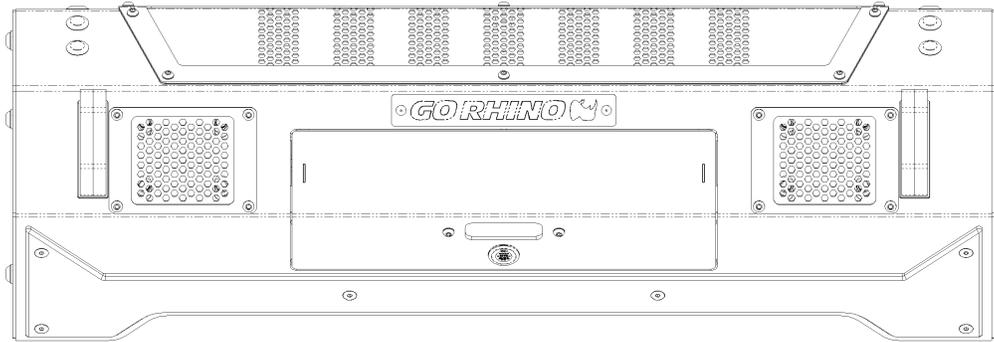
- Once drawer has been installed, stops must be manually engaged on both sides.
- Pull up on plastic lever (driver side), Push down on plastic lever (passenger side).
- Drawer should not open any further than position shown.

- Drawer stops should not be visible.

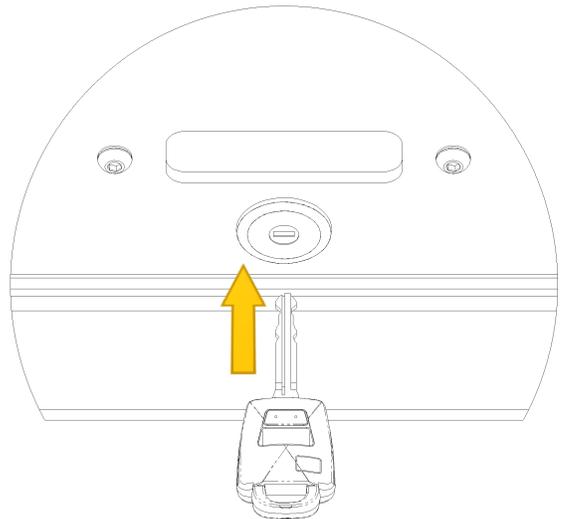
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INSTALLATION INSTRUCTIONS

STEP # 22

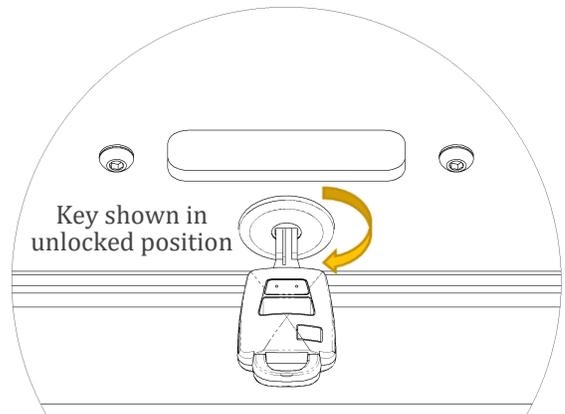
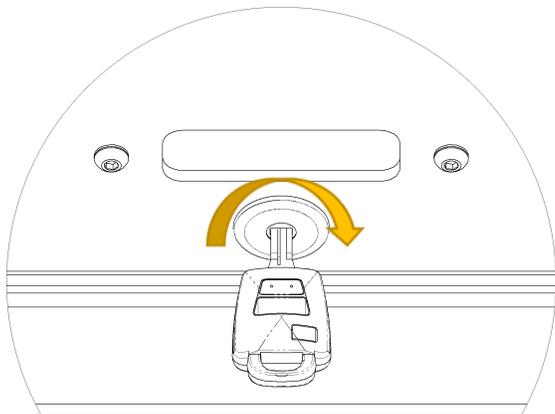


WARNING
DO NOT REMOVE
UNTIL READY TO CODE GRV
ONLY INSERT KEY
INTENDED FOR EVERY
DAY USE



STEP# 20.1
Read warning label and remove it.

STEP# 20.2
FULLY insert ignition key into lock cylinder.



STEP# 20.3
While maintaining FULL key insertion,
rotate key clockwise until it hits a stop
point at about $\frac{3}{4}$ of a turn or 270 degrees.

STEP# 20.4
Key is now in unlocked position. Rotate
90° clockwise to lock.

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INSTALLATION INSTRUCTIONS



- Shown with optional Full End Caps

WARNING

Do not operate vehicle with tool drawer in unlocked position. Tool drawer must be securely closed and locked.
Failure to follow instructions may cause severe damage or loss of drawer.



INSTALLATION INSTRUCTIONS

LIMITED WARRANTY

Go Rhino warrants to Buyer that for a period of five (5) years from the date of shipment of the product(s) ("Warranty Period") for black finishes and chrome finishes, that such products will materially conform to the specifications set forth in Go Rhino's specifications in effect as of the date of shipment(s) and will be free from material defects in material workmanship.

Go Rhino warrants to Buyer that for the life of the product(s) from the date of shipment of the product(s) ("Warranty Period") for polished stainless steel finished products purchased after April 2004, that such products will materially conform to the specifications set forth in Go Rhino's specifications in effect as of the date of shipments and will be free from material defects in material workmanship.

Warranty claims must be accompanied with the original invoice and photos of the product. It is the customer's responsibility to clean regularly and protect finish with regular applications of a nonabrasive polish that is compatible with the product's finish.

This warranty covers the cost of the product only and does not include the cost of removal, installation, third party modifications or shipping of the product. In no event shall Go Rhino be liable to buyer or any third party for any damage or harm caused by the product or use thereof, regardless of weather such damages were foreseeable and whether or not Go Rhino has been advised of the possibility of such damages, notwithstanding the failure of any agreed or other remedy of its essential purpose. This warranty is void if the product shows signs of alteration, misuse, mishandling, improper care, neglect, improper application and/or damage due to improper installation.

With respect to any such product(s) during the limited warranty period, Go Rhino shall, in its sole discretion, either: (i) provide a one-time repair or replacement of such products (or the defective part) or (ii) credit or refund the price of such products at the pro rata contract rate provided that, if Go Rhino so requests, Buyer shall, at Go Rhino's expense, return such product(s) to Go Rhino. The remedies shall be the Buyer's sole and exclusive remedy and Go Rhino's entire liability for any breach of the limited warrant (ies).

Go Rhino disclaims all other warranties except to the extent that any such warranty cannot be validly disclaimed under applicable law.

Finish Limited Warranty:

Limited lifetime on stainless steel products (after April 2004)

5 year warranty on black powder coat products

5 year warranty on chrome products

This warranty does not cover exposed welds

Finish warranty covers peeling, flaking, or cracking. Washing all finishes regularly with car wash soap and rinsing well with water is the best method for maintaining the finish on your products. You must also protect the finish with nonabrasive automotive wax on a regular basis. The use of any compound which contains abrasives becomes a self-defeating exercise as the compound scratches the finish and opens it to corrosion. The use of harsh chemicals used to remove bugs and tar may also cause the finish to fail and should be avoided.

If you are unsatisfied with your purchase please contact the establishment you purchased the product from.

If you need to place a warranty claim or need assistance, the Go Rhino customer service team will answer any questions you may have. Please contact the Go Rhino customer service team at 1-888-427-4466 during normal business hours Monday thru Friday 7 am to 5 pm PST. You may also email warranty@gorhino.com. In order to better serve you please provide a copy of the original invoice / receipt, a photo of the issue you are experiencing and a photo of the vehicle the product is installed on.

All warranty returns must have an approved RGA number. The RGA number must be clearly marked on the exterior of the return package. All approved warranty returns must be shipped to Go Rhino Products, 1002 Carriers Drive, Laredo, Texas 78045.

PRODUCT REGISTRATION

Please remember to register your new purchase. You may register your product at www.gorhino.com. Registering your product may help speed any future warranty or customer service inquiries.

Thank you again for purchasing from Go Rhino Products

Please take a few minutes to view additional products for your vehicle and more at GORHINO.com
These installation instructions are available on the Go Rhino web site along with installation videos for many of our products.

www.gorhino.com

www.bigcountryauto.com

www.gorhinopd.com