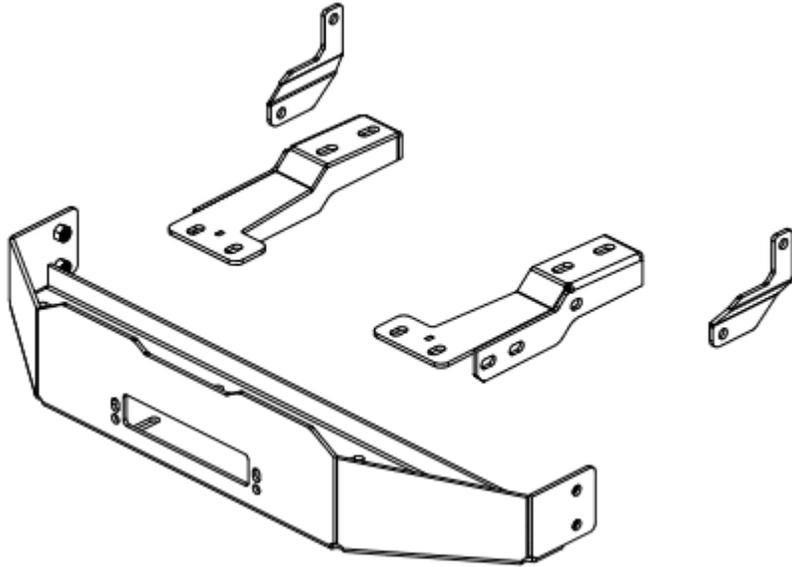


# GO RHINO®

## INSTALLATION INSTRUCTIONS



### PART NO.

- 32981T

### PRODUCT DESCRIPTION:

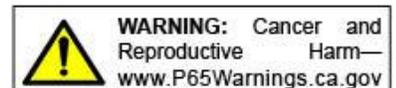
- 3100 SERIES WINCH MOUNT KIT

### APPLICATION:

- FORD F-150

### 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](http://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.

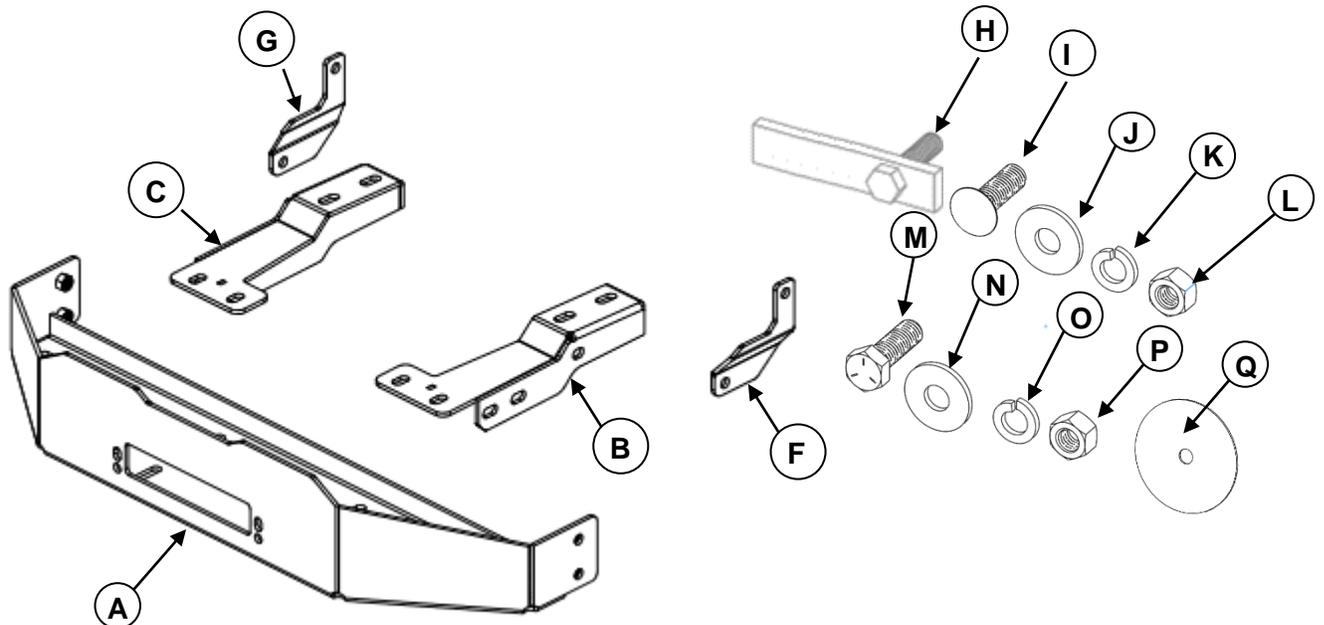
- Installation of some of these products may alter the factory sensor system performance.
- Factory sensors may read shackles or hooks protruding from the fairlead and or tow hooks.
- All sensor testing is completed by Go Rhino Products and or third party testing labs on modified vehicles.
- Sensor sensitivity, 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!

# GO RHINO®

## INSTALLATION INSTRUCTIONS

### PARTS INCLUDED IN THIS LIST:

ITEM	QTY.	PART NUMBER	DESCRIPTION	ITEM	QTY.	PART NUMBER	DESCRIPTION
A	1	329610AA	Winch Tray	I	4		1/2 x 1 1/2" Carriage Bolt
B	1		Lower Bracket(driver)	J	8		1/2" Flat Washer
C	1		Lower Bracket (passenger)	K	8		1/2" Lock washer
D	1		Auxiliary Bracket (driver)	L	4		1/2" Hex nut
E	1		Auxiliary Bracket (passenger)	M	2		1/2 x 1 1/4" Hex Bolt
F	2		1/2" T-bolt	N	6		1/2" Flat Washer zinc plated
G				O	4		1/2" Lock Washer zinc plated
H				P	4		1/2" Hex nut zinc plated
				Q	2		Vynil gasket



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:

- Inch / Metric Socket & Wrench Set
- Ratchet, Ratchet Extensions & Swivel Joint Adapter
- Trim Removal Tool or Slotted Blade Screw Driver
- Drill Motor & 1/4" Drill Bit
- Cutoff Tool & Diagonal-Cutting Pliers

ESTIMATED TIME FOR INSTALLATION:

1.5 Hour

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

# GO RHINO®

## INSTALLATION INSTRUCTIONS

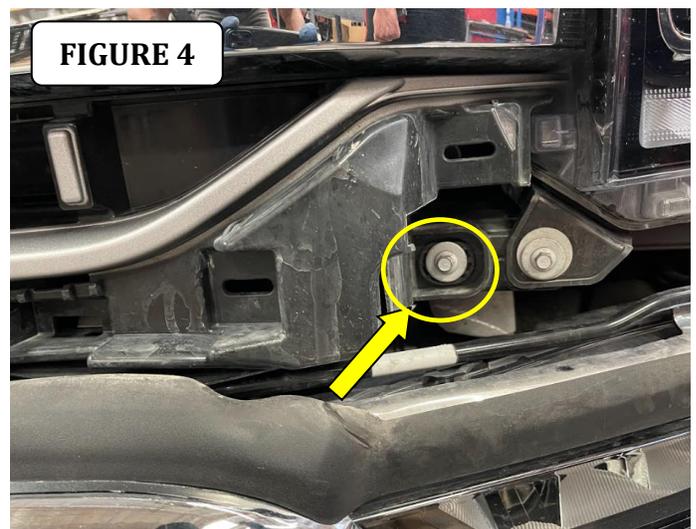
### Grille Removal

**Step-1** Remove the (2) screws securing the front section of the fender liner to the bumper cover, (FIGURE 1).

**Step-2** Starting where the screws were removed, pull gently the bumper cover until release it from the clips.



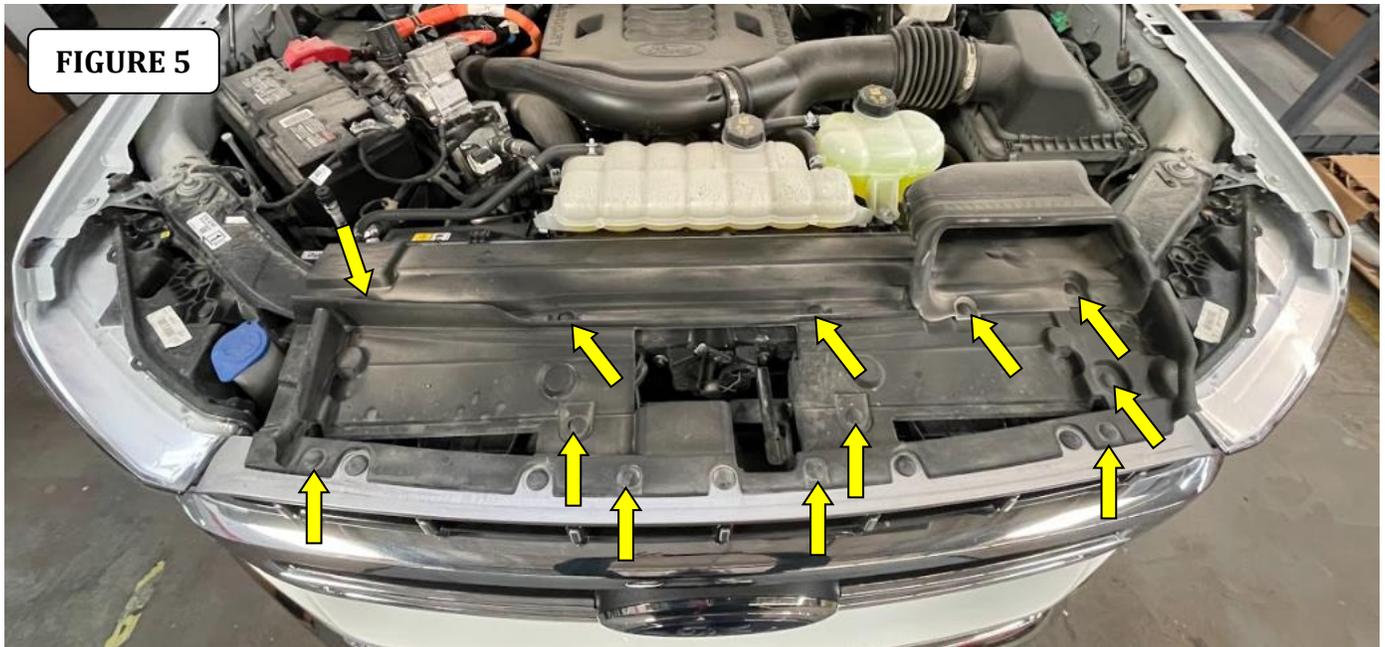
**Step-3** Remove the bolt shown on each side of the vehicle, (FIGURE 3 & 4).



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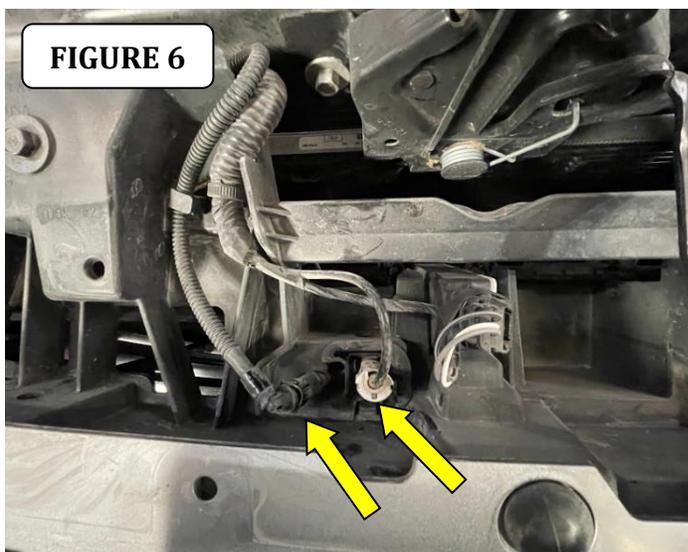
## INSTALLATION INSTRUCTIONS

**Step-3** Open the hood. Remove the radiator cover by removing the plastic clips, (FIGURE 5).



**Step-4** Unplugged the front camera harness if the vehicle is equipped with, (FIGURE 6).

**Step-5** Pull gently the grille to remove it from the vehicle.



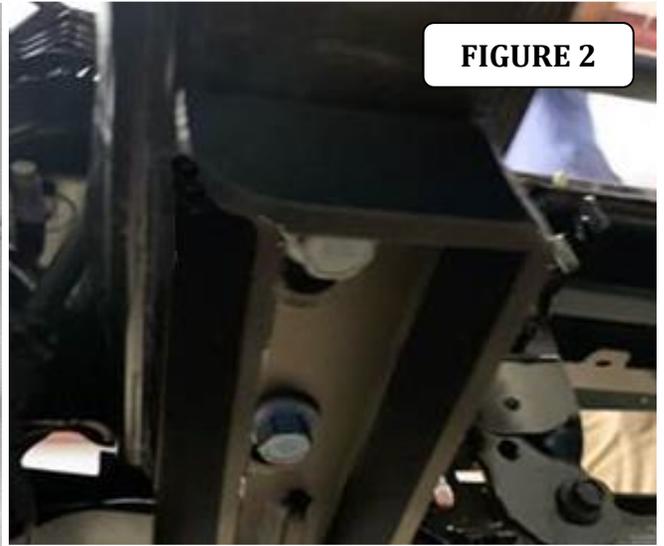
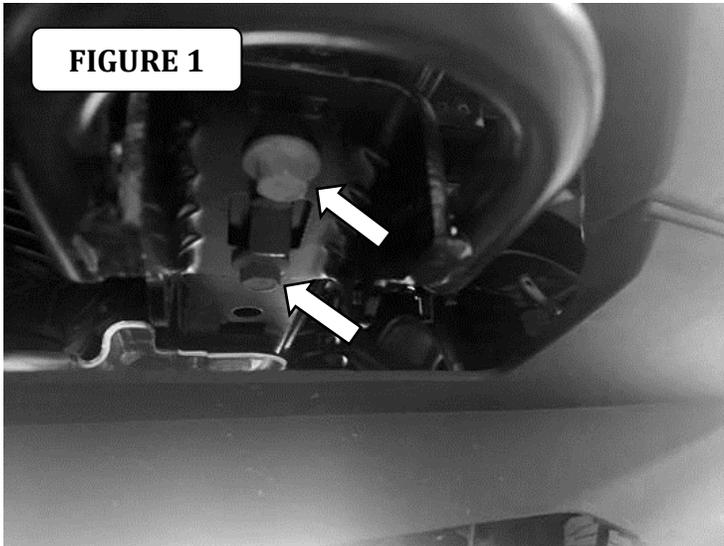
# GO RHINO®

## INSTALLATION INSTRUCTIONS

### Grille Guard Installation

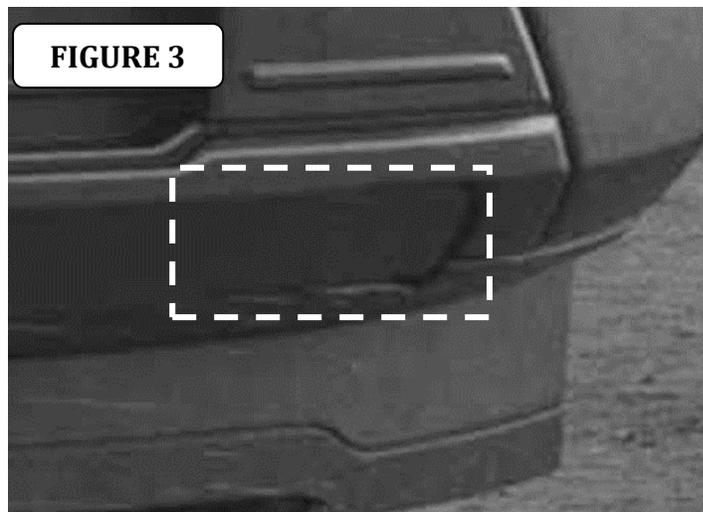
**Step-1** If the vehicle has tow hooks remove the black rubber tow hook cover .

**Step-2** Remove the tow hooks. The tow hooks will not be used to continue this installation. See Figure 1. **NOTE:** If vehicle does not have tow hooks follow to step 4.



**Step-3** Place the main bracket on the bottom frame. Re-attach using the factory bolts removed in previous step. Figure 2. Leave loose. Follow to step 7.

**Step-4** If the vehicle does not have the tow hooks, you must to cut out the lower valance. Figure 3. **NOTE:** PROFESSIONAL INSTALLATION RECOMMENDED.

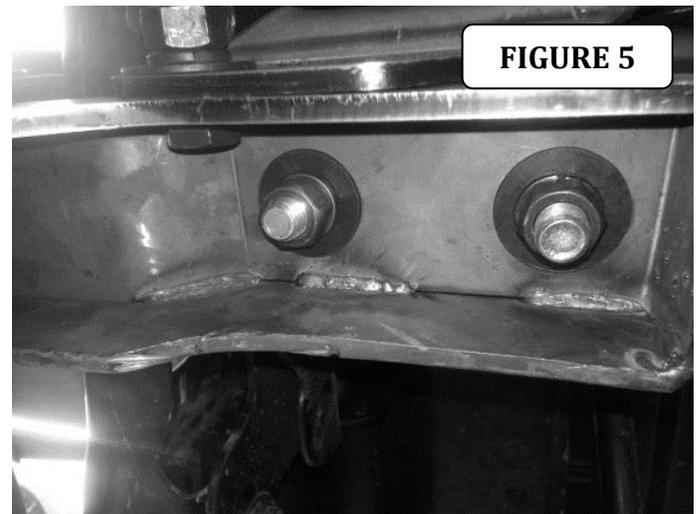
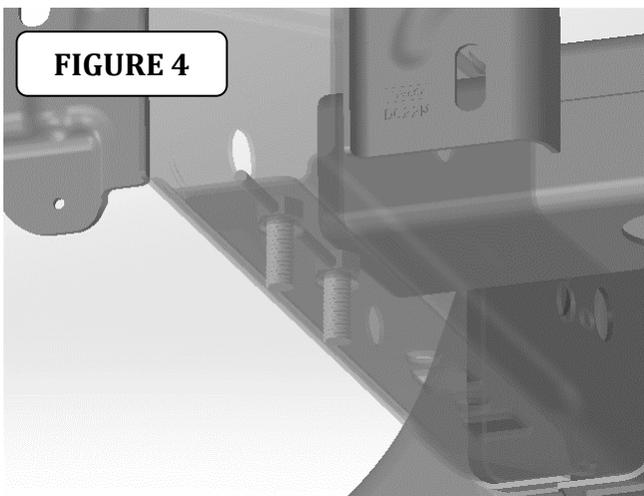


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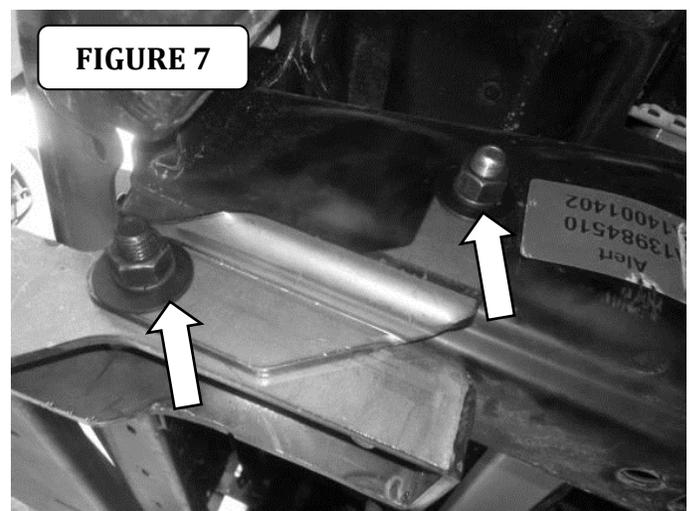
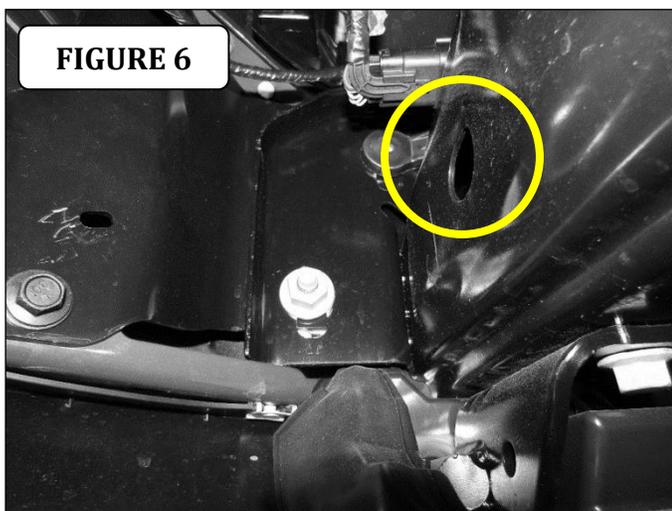
## INSTALLATION INSTRUCTIONS

**Step-5** Once openings were made, place ½" tab bolts into the frame holes as shown at Figure 4. Use the wire guide to place tab bolts. NOTE: These bolts are included on the hardware of the Grille Guard.

**Step-6** Place the main bracket on the bottom frame, fasten using 1/2" flat and lock washers and hex nuts. Figure 5.



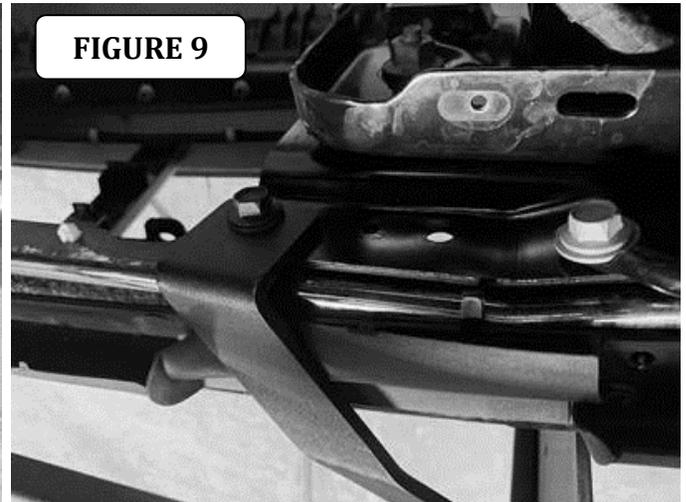
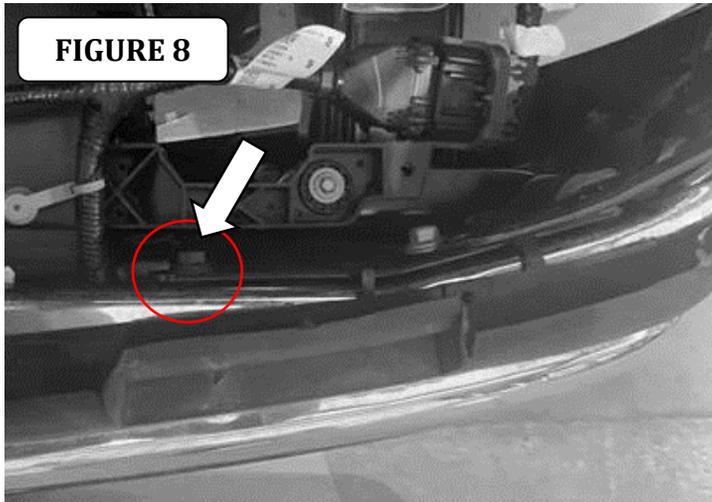
**Step-7** Locate the existing hole on external side of the frame, then insert a 1/2" t-bolt inside the frame with the bolt extending out through the hole on the side of the frame. Install (1) vinyl gasket on the bolt to keep the t-bolt from falling back into the frame. Place the auxiliary bracket and secure to the t-bolt using 1/2" flat and lock washers and hex nuts. Secure the other end of the auxiliary bracket to the lower bracket using ½ x 1 ¼" hex bolt, 1/2" flat and lock washers and hex nuts. Figure 7. Do not tighten.



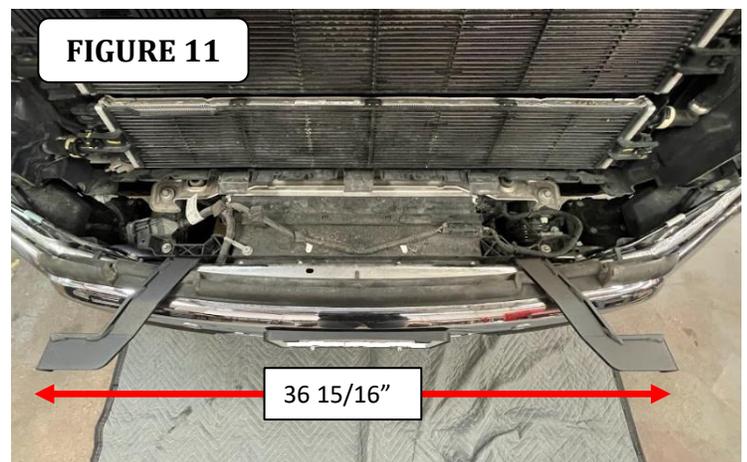
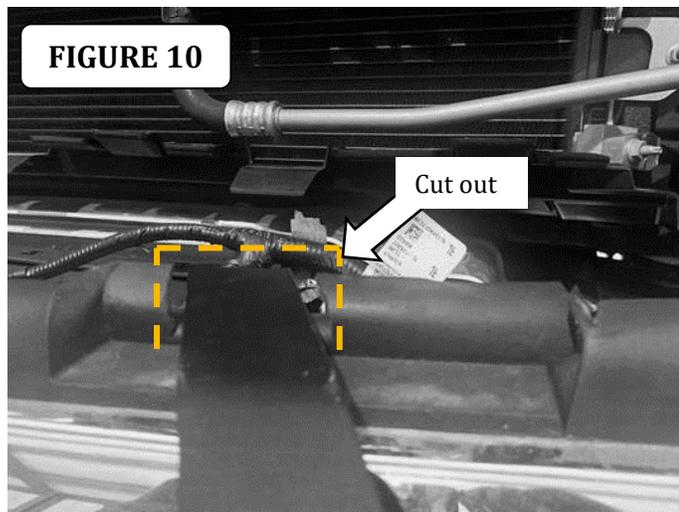
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## INSTALLATION INSTRUCTIONS

**Step-8** Locate at the inner part of the bumper where the grille was removed the bolt shown and remove it (Figure 8). Attach the auxiliary bracket using the factory bolt removed. Figure 9. **NOTE:** You need to cut out the plastic to allow the auxiliary bracket pass through. Figure 10. Do not tighten. Repeat for the other side.



**Step-9** Center and measure  $36 \frac{15}{16}$ " between the upper auxiliary brackets and tighten the bolts. Figure 11. Reinstall the grille and the bumper cover.

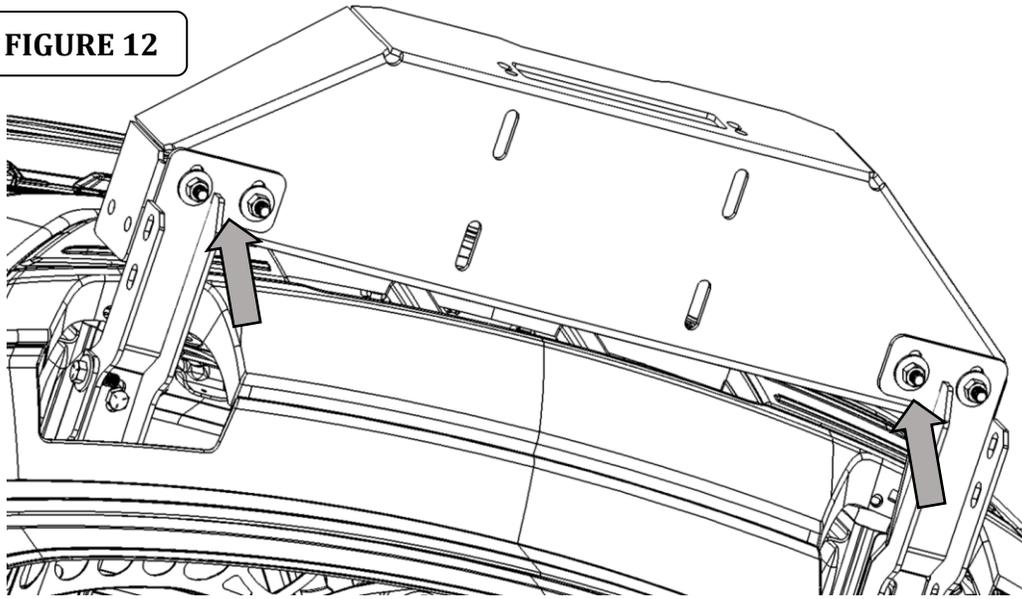


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## INSTALLATION INSTRUCTIONS

**Step-10** Position the winch tray on top of the lower mounting brackets. Align the holes and secure the winch tray to each lower mounting bracket using (2) ½" x 1 ½" carriage bolts, (2) ½" flat washers, (2) ½" lock washers and (2) ½" hex nuts, (Fig 12). Leave the nuts and bolts loose for final adjustment.  
**Note:** If you are installing a winch, place the winch in the winch tray and refer to the winch manufacturer's instructions for installation of the winch and fairlead.

**FIGURE 12**



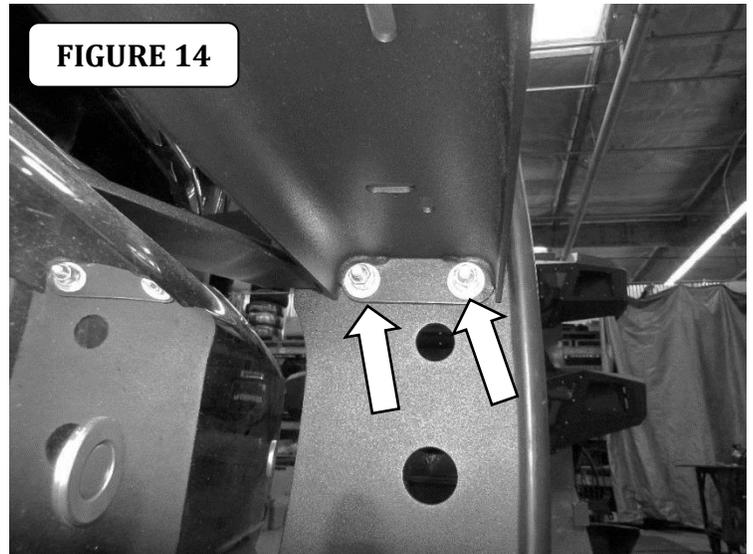
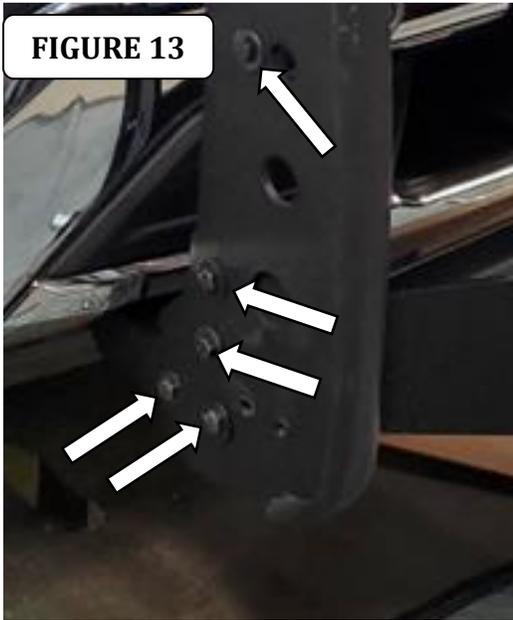
**Step-11** Hold one of the grille guard side plates up in position on the outside of the upper and lower mounting brackets. Fig 13.

**Step-12** Align the holes in the grille guard side plate with the holes in the upper and lower mounting bracket, and the weld nuts on the winch tray and attach the grille guard to the lower mounting brackets using the ½" x 1 ½" hex bolts, ½" flat washers, ½" lock washers and ½" hex nut. Attach to the upper brackets using (1) 3/8 x 1 1/4" hex bolt, (2) 3/8" flat washer, (1) 3/8" lock washer and (1) 3/8" hex nut. NOTE: These bolts are included on the hardware of the Grille Guard. (Fig 13 ). Attach to the winch tray using the supplied ½ x 1 ½" Hex bolt, ½" flat and lock washers.

# GO RHINO®

## INSTALLATION INSTRUCTIONS

**Step-13** Position the center plate between the grille guard side plates. Attach the center plate to each side plate using (2) 3/8" X 1 1/4" bolts, (2) 3/8" flat washers, (2) 3/8" lock washers and (2) 3/8" hex nuts, (Fig 14). **NOTE:** Due to the variation in winch dimensions and access to the winch controls, the center plate can be deleted from the installation.



**Step-14** Position the top tube between the grille guard side plates. Attach the to the top tube to the side plates using (2) 3/8" X 1 1/4" hex bolts and (2) 3/8" lock washers (Fig 15). Align the grille guard center section assembly, then and tighten all nuts and bolts for the grille guard center section assembly, winch tray and mounting brackets.





## INSTALLATION INSTRUCTIONS

**Step-15** If grille guard includes brush guards. Position the driver side brush guard up to the grille guard center assembly. Loosely attach the bottom of the brush guard to the grille guard side plate using (1) 3/8" X 1 1/4" hex bolt and (1) 3/8" lock washer . Attach the top of the brush guard to the side plate using (2) 3/8" X 1 1/4" button head bolts, (2) 3/8" flat washers and (2) 3/8" hex nuts. Do not tighten. Repeat for the passenger side brush guard.

**Step-16** Attach the head light protectors to the brush guards using the 1/4" x 1" button head bolts, and to the side plates using the 5/16" x 1" button head bolts, washers and nuts. Do not tighten.

**Step-17** Align the grille and brush guard assembly, and tighten all nuts and bolts.. Reinstall the plastic bumper cover.

**Step-18** Periodically it may need re-tighten the bolt.



# 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 whether such damages were foreseeable and whether or not Go Rhino has been advised of the possibility of such damages, not withstanding 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](mailto: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, 810 Nafta Blvd Laredo, TX 78045

## PRODUCT REGISTRATION

Please remember to register your new purchase. You may register your product at [www.gorhino.com](http://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](http://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](http://www.gorhino.com)

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