

# GO RHINO®

## INSTALLATION INSTRUCTIONS



### PART NO.

- 3324B / 3324C

### PRODUCT DESCRIPTION:

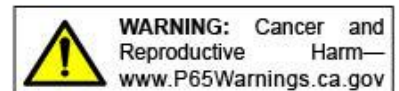
- 3000 SERIES STEP GUARD

### APPLICATION:

- FORD E-SERIES CARGO & PASSENGER VAN

## 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)

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## 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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QTY	DESCRIPTION	QTY	DESCRIPTION
10	3/8" X 1 1/4" HEX BOLT	2	3323 SIDE PLATE
10	3/8" LOCK WASHER	1	TT3293 2" X 38 1/4" TOP TUBE
4	3/8" HEX NUT	1	CP3293 38 1/4" CENTER PLATE
4	3/8" FLAT WASHER	1	ST3293 3" X 38 1/4" BOTTOM STEP TUBE

### GRILLE GUARD ASSEMBLY (FIGURE 1)

**STEP-1** BEGIN THE GRILLE GUARD ASSEMBLY BY LAYING THE COMPONENTS OUT ON A PROTECTIVE SURFACE.

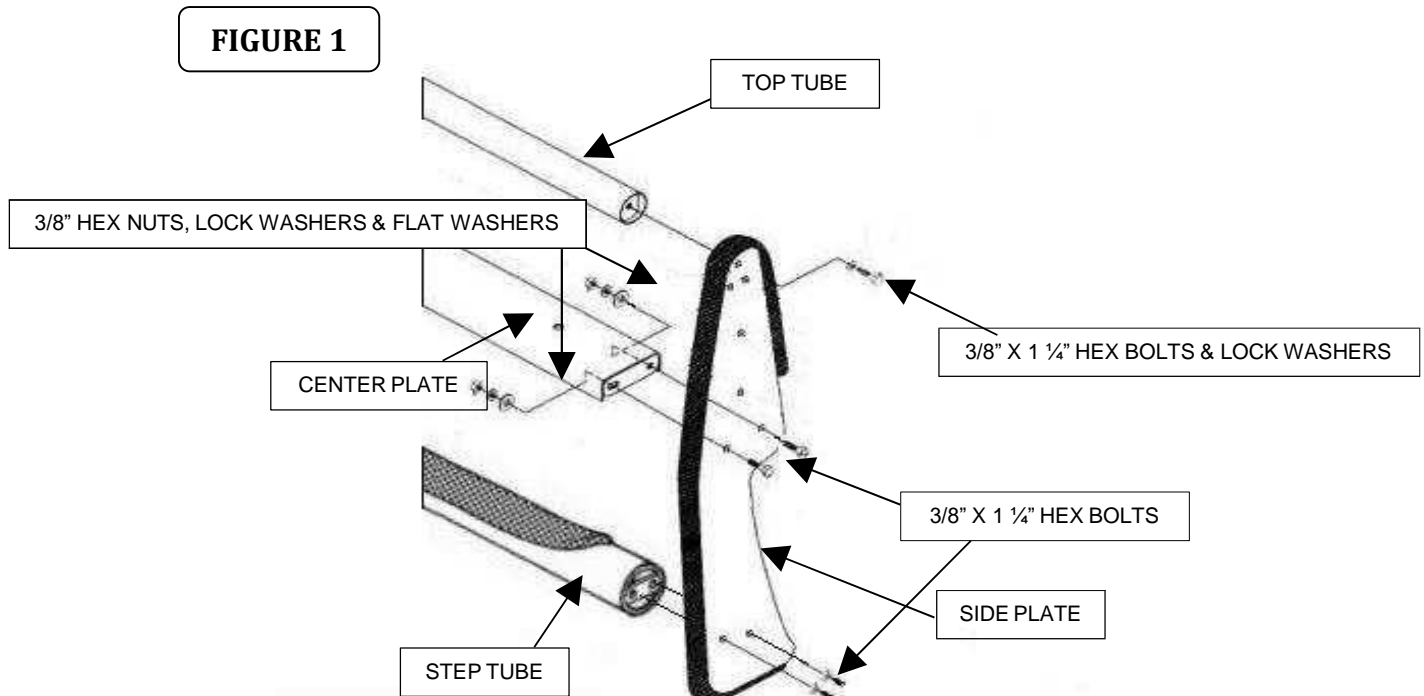
**STEP-2** POSITION THE GRILLE GUARD SIDE PLATES WITH THE FRONT EDGE DOWN AND THE TOP AND BOTTOM STEP TUBE BETWEEN THE SIDE PLATES.

**STEP-3** ATTACH THE TOP AND BOTTOM STEP TUBE TO THE SIDE PLATES USING THE 3/8" X 1 1/4" HEX BOLTS AND LOCK WASHERS. DO NOT TIGHTEN.

**STEP-4** POSITION THE CENTER PLATE BETWEEN THE GRILLE GUARD SIDE PLATES, WITH THE SLOTTED MOUNTING HOLES IN THE CENTER PLATE DOWN.

**STEP-5** INSERT THE 3/8" X 1 1/4" HEX BOLTS THROUGH THE HOLES IN THE SIDE PLATES AND CENTER PLATE, AND INSTALL THE 3/8" FLAT WASHERS, LOCK WASHER AND HEX NUTS. DO NOT TIGHTEN.

**STEP-6** ALIGN THE GRILLE GUARD, AND TIGHTEN ALL NUTS AND BOLTS.



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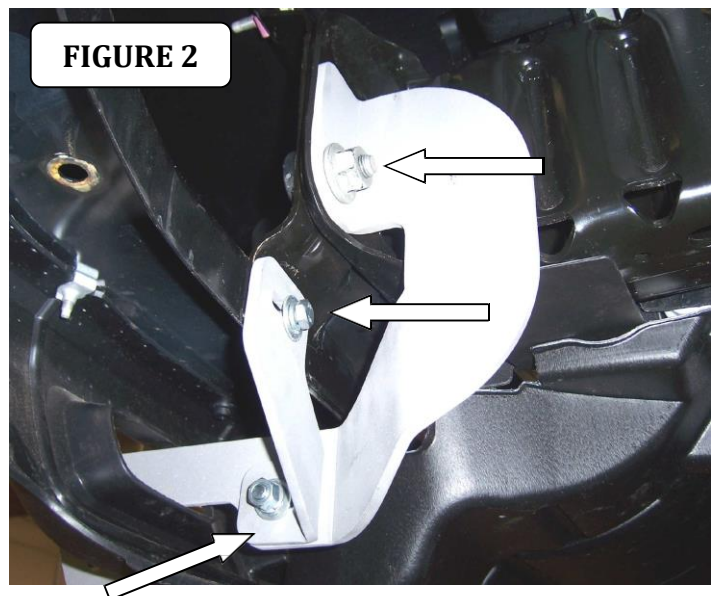
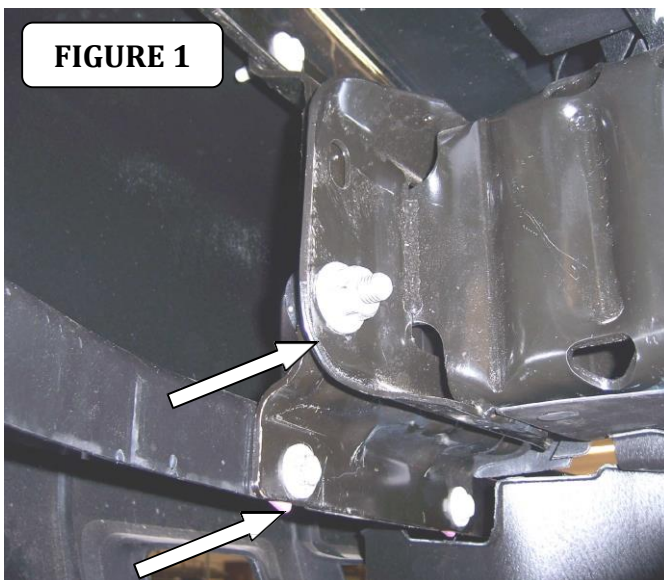
QTY	DESCRIPTION	QTY	DESCRIPTION
2	1/4" X 3/4" HEX BOLT	4	1/2" X 1 1/2" HEX BOLT
2	1/4" FLAT WASHER	4	1/2" FLAT WASHER
2	1/4" NYLON LOCK NUT	4	1/2" LOCK WASHER
4	8M-1.25 X 30M HEX BOLT	4	1/2" HEX NUT
4	5/16" LOCK WASHER	1	32410 DRIVER LOWER BRACKET
4	5/16" FLAT WASHER	1	32410 PASSENGER LOWER BRACKET
4	3/8" X 1 1/4" HEX BOLT	1	32430 DRIVER AUXILIARY BRACKET
4	3/8" FLAT WASHER	1	32430 PASSENGER AUXILIARY BRACKET
4	3/8" LOCK WASHER	1	32420 DRIVER UPPER BRACKET
4	3/8" HEX NUT	1	32420 PASSENGER UPPER BRACKET
		1	32442 LICENSE PLATE BRACKET

### INSTALLATION

**STEP-1** REMOVE THE LICENSE PLATE AND PLASTIC MOUNTING BRACKET FROM THE FRONT BUMPER.

**STEP-2** BEGINNING WITH THE DRIVER SIDE, LOCATE AND REMOVE THE LOWER BUMPER BOLT AND THE HEX NUT SECURING THE BUMPER BRACKET TO THE FRAME RAIL, (FIGURE 1).

**STEP-3** POSITION THE DRIVER SIDE LOWER BRACKET OVER THE BUMPER BRACKET BOLT AND RE-INSTALL THE FACTORY NUT. DO NOT TIGHTEN. ATTACH THE DRIVER SIDE AUXILIARY BRACKET TO THE BUMPER BRACKET USING (1) 8M HEX BOLT, 5/16" LOCK WASHER AND FLAT WASHER, AND TO THE LOWER BRACKET USING (1) 3/8" X 1 1/4" HEX BOLT, FLAT WASHERS LOCK WASHER AND HEX NUT, (FIGURE 2). DO NOT TIGHTEN.

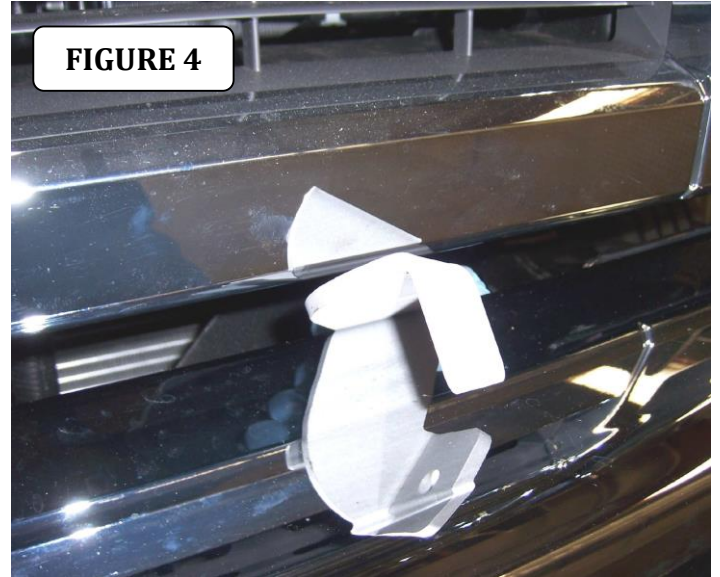
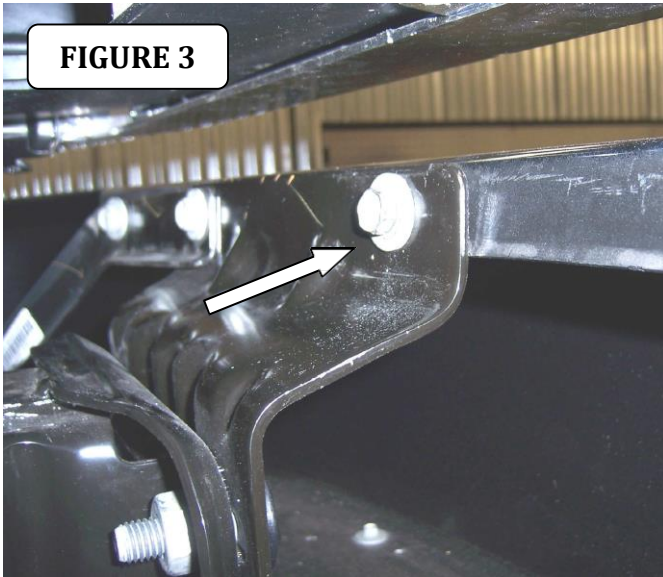


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## INSTALLATION INSTRUCTIONS

**STEP-5** LOCATE AND REMOVE THE UPPER BUMPER BOLT, (FIGURE 3).

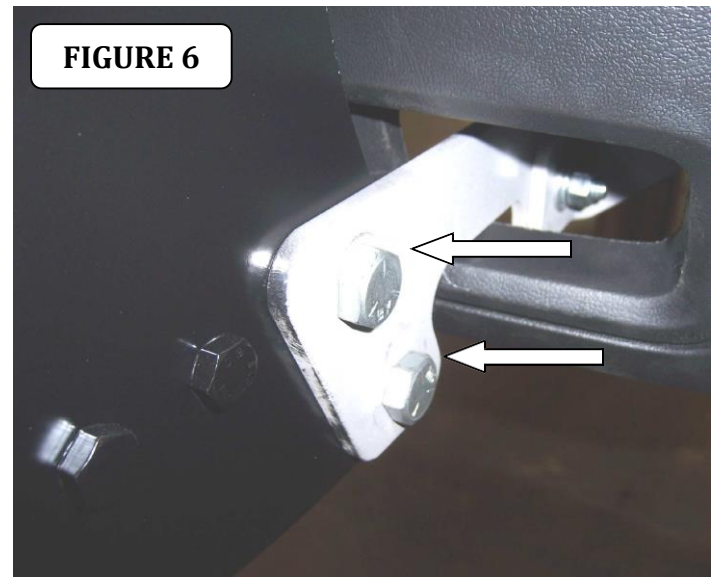
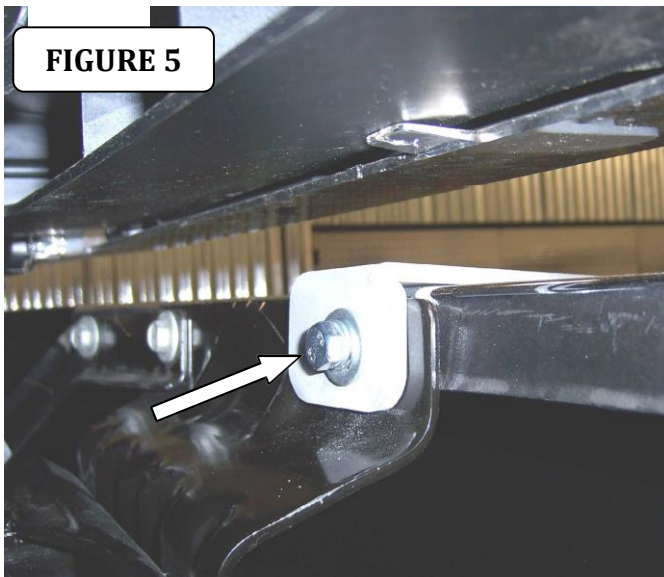
**STEP-6** FROM BEHIND THE BUMPER, INSERT THE UPPER BRACKET THROUGH THE OPENING BETWEEN THE GRILLE AND BUMPER, (FIGURE 4).



**STEP-7** ATTACH THE UPPER BRACKET TO THE BUMPER BRACKET USING (1) 8M HEX BOLT, LOCK WASHER AND FLAT WASHER, (FIGURE 5). DO NOT TIGHTEN.

**REPEAT THE ABOVE PROCEDURE TO INSTALL THE PASSENGER SIDE BRACKETS.**

**STEP-8** ATTACH THE GRILLE GUARD ASSEMBLY TO THE LOWER BRACKETS USING (4) 1/2" X 1 1/2" HEX BOLTS, FLAT WASHERS, LOCK WASHERS AND HEX NUTS, (FIGURE 6). DO NOT TIGHTEN.



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## INSTALLATION INSTRUCTIONS

**STEP-9** ATTACH THE GRILLE GUARD ASSEMBLY TO THE UPPER BRACKETS USING (2) 3/8" X 1 1/4" HEX BOLTS, FLAT WASHERS, LOCK WASHERS AND HEX NUTS.

**STEP-10** ALIGN THE GRILLE GUARD ASSEMBLY WITH THE FRONT OF THE VEHICLE AND TIGHTEN ALL NUTS AND BOLTS.

FIGURE 7

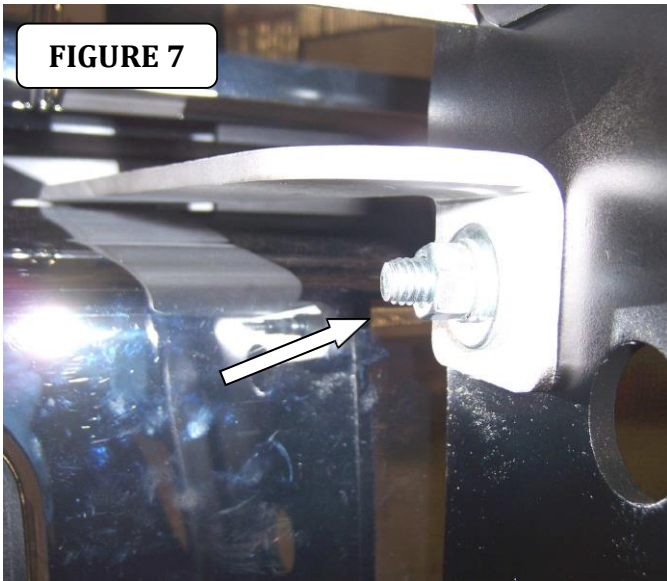


FIGURE 8



IF YOUR STATE LAW REQUIRES A FRONT LICENSE PLATE, LOCATE AND REMOVE THE VALANCE BOLT AND ATTACH THE SUPPLIED LICENSE PLATE BRACKET TO THE INSIDE OF THE BUMPER USING THE FACTORY BOLT, (FIGURE 9 & 10). ATTACH THE BOTTOM OF THE LICENSE PLATE TO THE BRACKET USING (2) 1/4" X 3/4" HEX BOLTS, FLAT WASHERS AND LOCK NUTS.

FIGURE 9

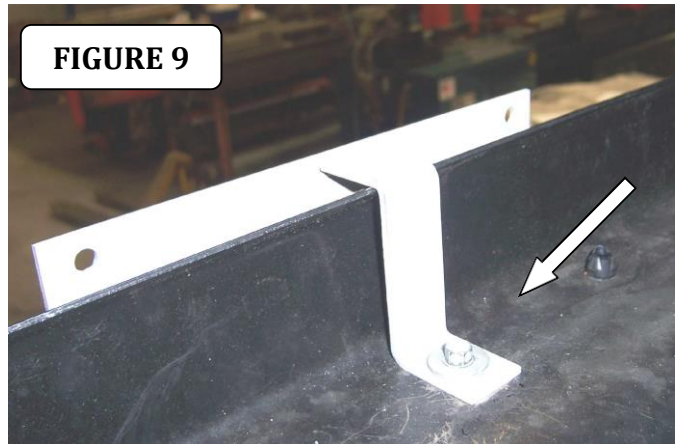


FIGURE 10

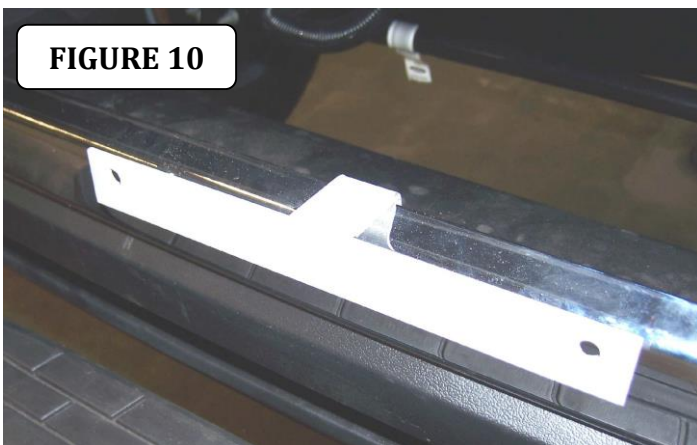


FIGURE 11





# 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, 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, 1002 Carriers Drive, Laredo, Texas 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)

[www.bigcountryauto.com](http://www.bigcountryauto.com)

[www.gorhinopd.com](http://www.gorhinopd.com)



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