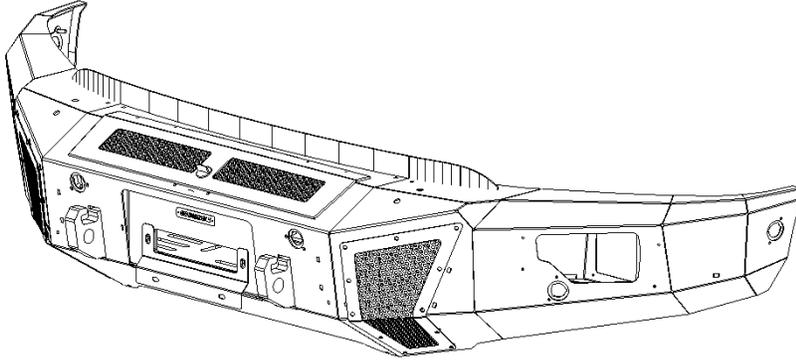


GO RHINO®

INSTALLATION INSTRUCTIONS



PART NO.

- 24398T

PRODUCT DESCRIPTION:

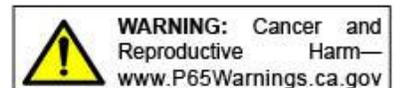
- BR6 FRONT BUMPER REPLACEMENT

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

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.

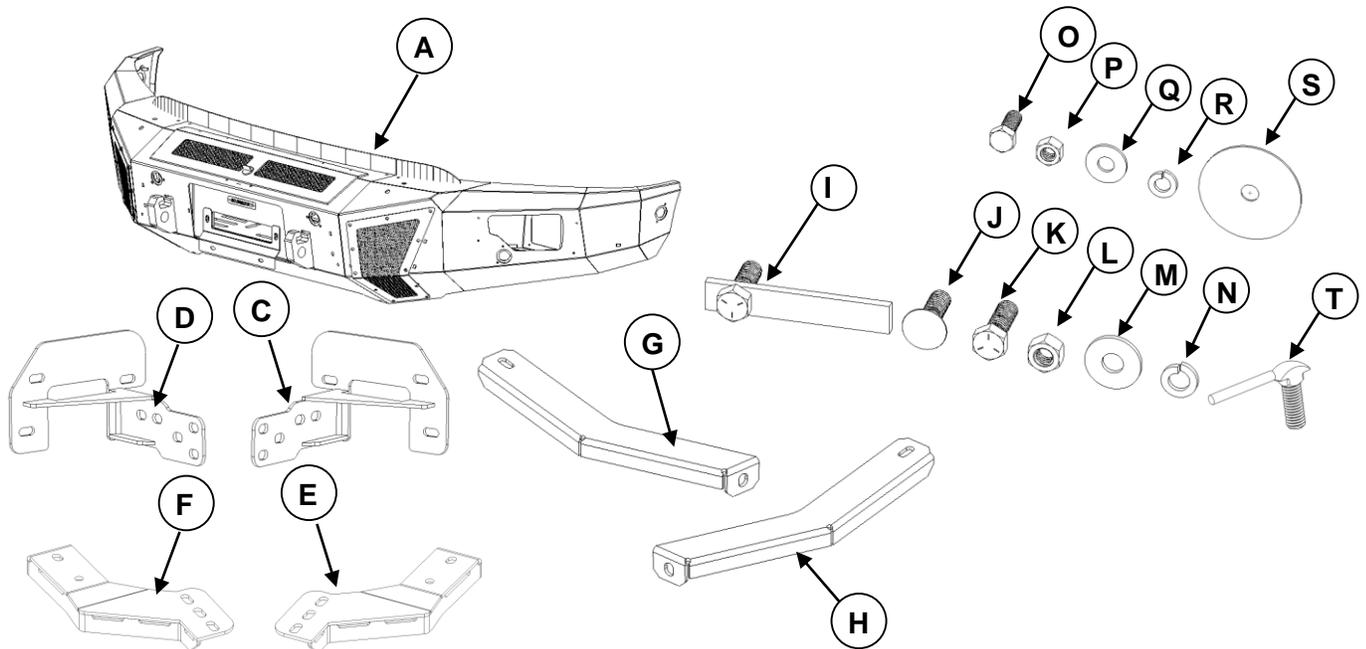
- Installation of some of these products may alter the factory sensor system performance.
- Factory sensors may read shackles or hooks protruding from the fairlead and or tow hooks.
- All sensor testing is completed by Go Rhino Products and or third party testing labs on modified vehicles.
- Sensor sensitivity,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

ITEM	QTY.	PART NUMBER	DESCRIPTION	ITEM	QTY.	PART NUMBER	DESCRIPTION
A	1		Bumper Replacement	K	20		1/2 x 1 1/2" Hex Bolt
B	1		Winch Tray (not shown)	L	18		1/2" Hex nut
C	1		Main Bracket (driver)	M	38		1/2" Flat Washer
D	1		Main Bracket (passenger)	N	28		1/2" Lock washer
E	1		Lower Extension Bracket (driver)	O	4		3/8 x 1" Hex Bolt
F	1		Lower Extension Bracket (passenger)	P	4		3/8" Hex nut
G	1		Auxiliary Bracket (driver)	Q	8		3/8" Flat Washer
H	1		Auxiliary Bracket (passenger)	R	4		3/8" Lock washer
I	2		1/2" Tab bolt	S	2		Vinyl Gasket
J	6		1/2" x 1 1/2" Carriage Bolt	T	4		1/2" Rod bolts



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
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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

Bumper Removal

Step-1 On each side 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.

FIGURE 1



FIGURE 2

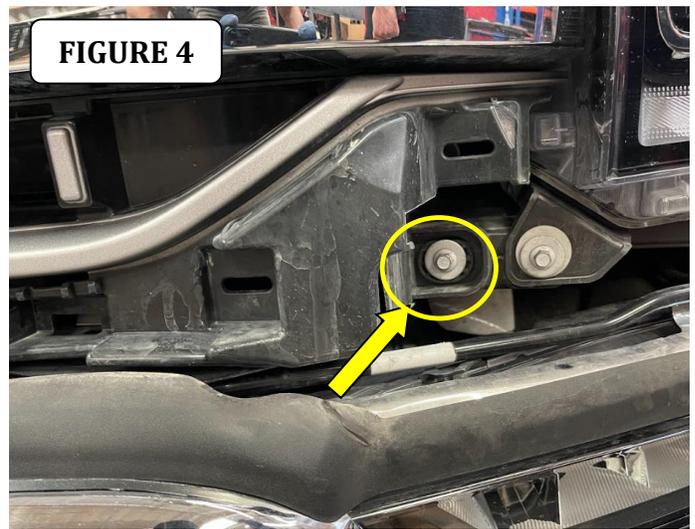


Step-3 Remove the bolt shown on each side of the vehicle, (Figures 3 & 4).

FIGURE 3



FIGURE 4



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INSTALLATION INSTRUCTIONS

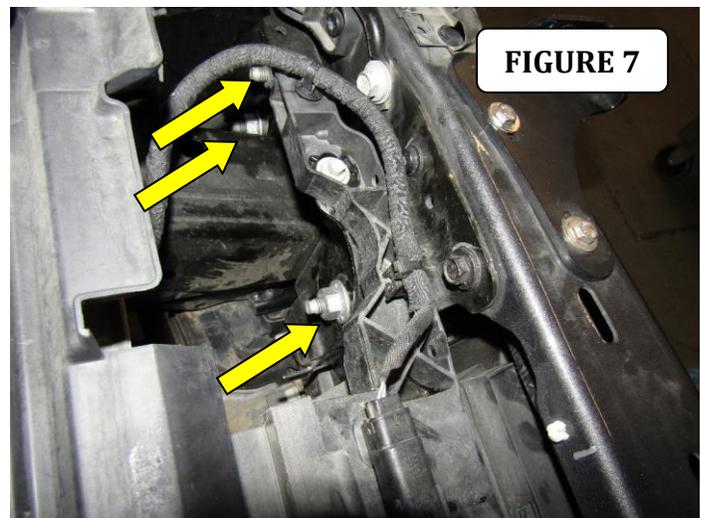
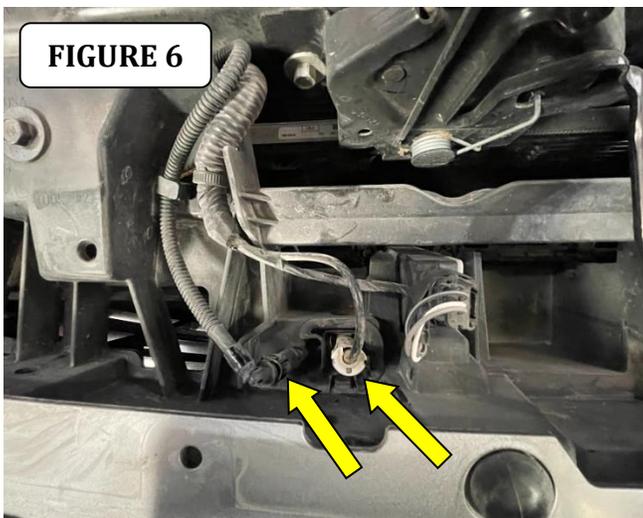
Step-4 Open the hood, locate and remove the plastic connectors securing the radiator cover (12) and hex bolts (4) securing the top of the grille. (Figure 5).



Step-5 Unplugged the front camera harness if the vehicle is equipped with, (Figure 6).

Step-6 Pull gently the grille to remove it from the vehicle.

Step-7 Remove the 3 nuts per side to release the bumper, (Figure 7). **NOTE:** Unplug the fog lights if equipped. **PROFESSIONAL INSTALLATION RECOMMENDED.**



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INSTALLATION INSTRUCTIONS

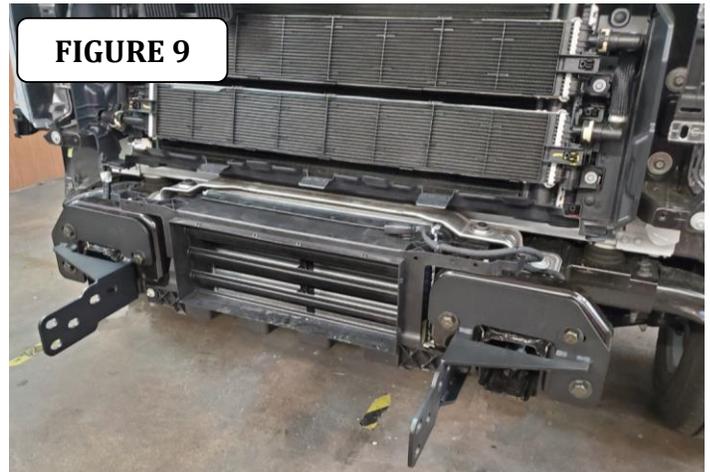
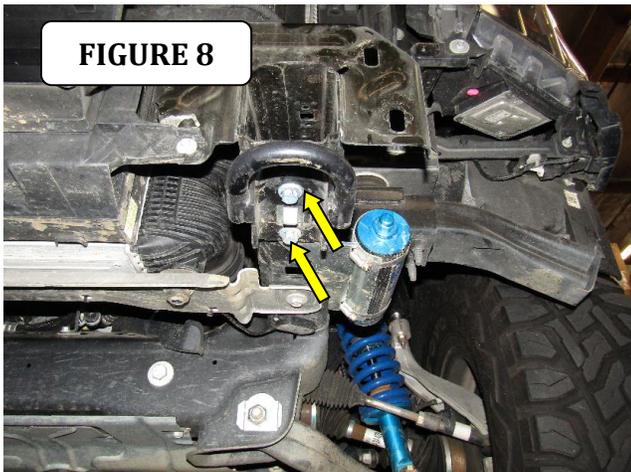
BR6 Bumper Installation

Step-8 Remove the (2) bolts and tow hook from the bottom of the frame, (Figure 8).

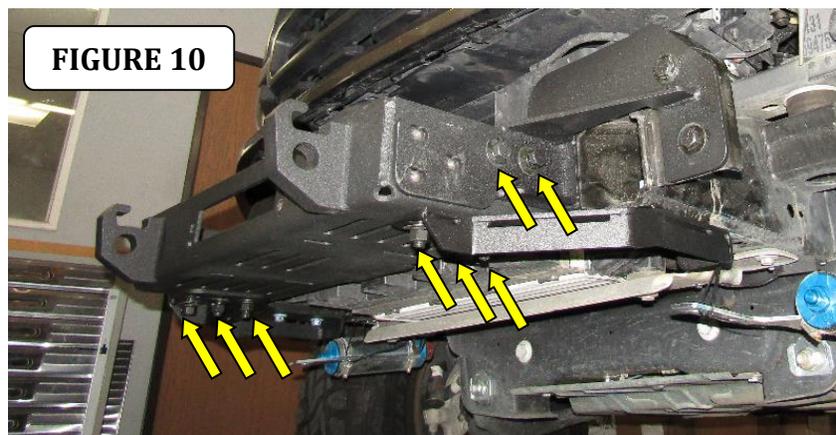
NOTE: The tow hook will not be reinstalled.

Step-9 Place main brackets on the frame ends, fasten using (3) 1/2" hex bolts, (6) 1/2" flat washers, (3) 1/2" lock washers and (3) 1/2" hex nuts per bracket. Figure 9.

Step-10 Position the driver side lower extension bracket on the bottom of the frame, align the holes in the bracket with the tow hook attachment holes and secure the lower extension bracket using the factory tow hook bolts and nut plates. Snug but do not fully tighten the nuts and bolts. Repeat to install the passenger side lower extension bracket. **NOTE:** If the vehicle does not have the tow hooks, you must use the 1/2" rod bolts with 1/2" hardware to secure the lower extension brackets.



Step-11 Position the winch tray on top of the lower extension brackets. Align the holes and secure the winch tray to each frame bracket on the rear holes using (2) 1/2" x 1 1/2" hex bolts, (2) 1/2" flat washers, (2) 1/2" lock washers, and to each lower extension bracket using (3) 1/2" x 1 1/2" carriage bolts, (3) 1/2" flat washers, (3) 1/2" lock washers and (3) 1/2" hex nut, (Figure 10). Leave the nuts and bolts loose for final adjustment.



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INSTALLATION INSTRUCTIONS

Step-12 If the vehicle is equipped with front parking assist sonar, remove the parking sensors wiring harness from the OEM bumper.

Step-13 Remove each parking sensor from the plastic bezel by gently spreading the bezel tabs and pulling out on the back of the sensor. Figure 11. Note: Do not push on the front of the sensor as this may damage it.



FIGURE 11



FIGURE 12

Step-14 Remove the parking sensor bezels from the OEM bumper by depressing the tabs around the base and pushing the bezel out through the front of the bumper.

Step-15 Remove the covers from the 4 sensor bezel plates that are preinstalled in the BR6 bumper.

Step-16 Aline the protrusions on each sensor bezel with the profile in the matching bezel plate, then from the front of the BR6 bumper push the bezel through the profile in the plate until the tabs around the base lock in position. Figure 12. Note: The Park Assist sensors and bezels have to be installed in the BR6 bumper replacement in the same position as removed from the OEM bumper.

Step-17 Install the parking sensors in the sensor bezels and transfer the OEM bumper wiring harness to the BR6 bumper and re connect to the parking sensors, (Figure 13).

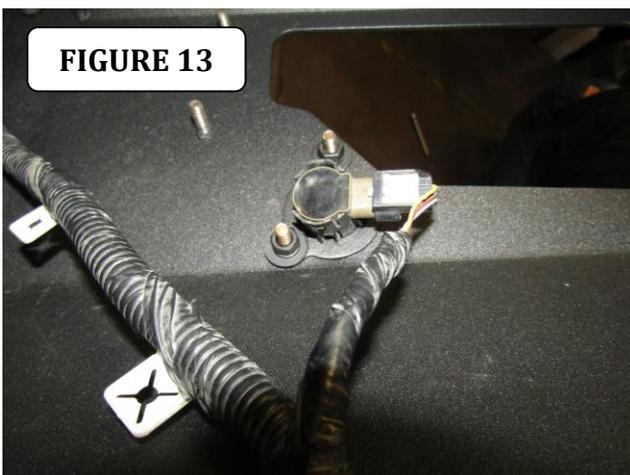
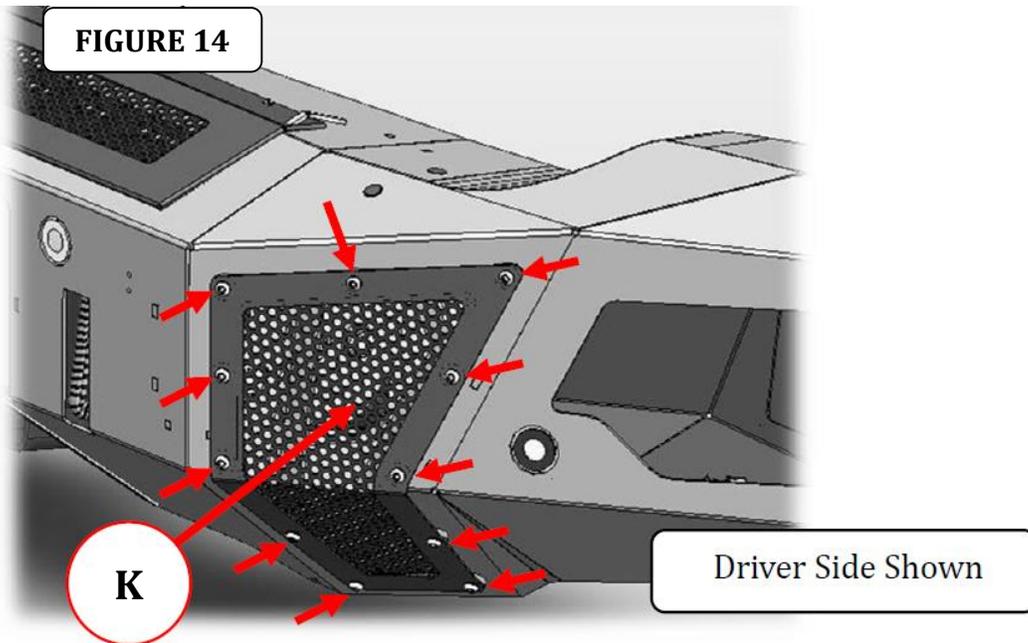


FIGURE 13

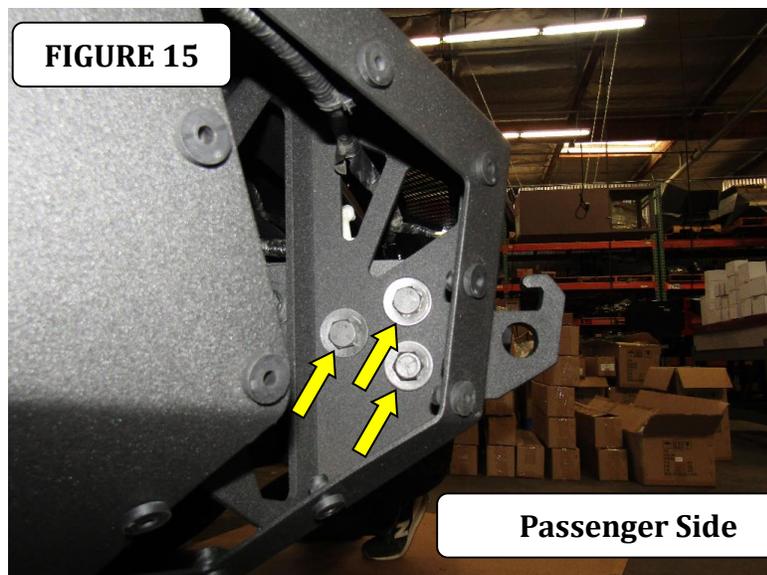
INSTALLATION INSTRUCTIONS

Note: If you are installing a winch, place the winch in the winch tray and refer to the winch manufacturer's instructions for installation. Do not install the fairlead at this time.

Step-11 The pre-installed Mesh Vent Covers need to be removed from each side of the bumper using hand tools to slowly remove the bolts, (Figure 14). Note: Using an air assisted impact or ratchet will damage the bolt threads and rubber rivet-nut assembly.



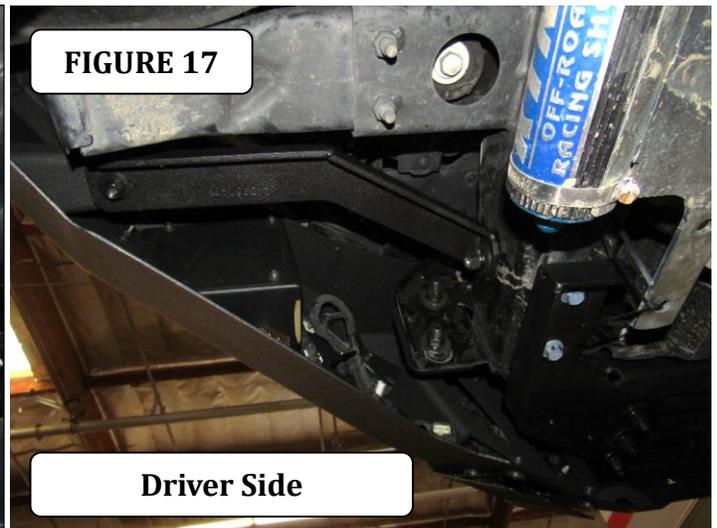
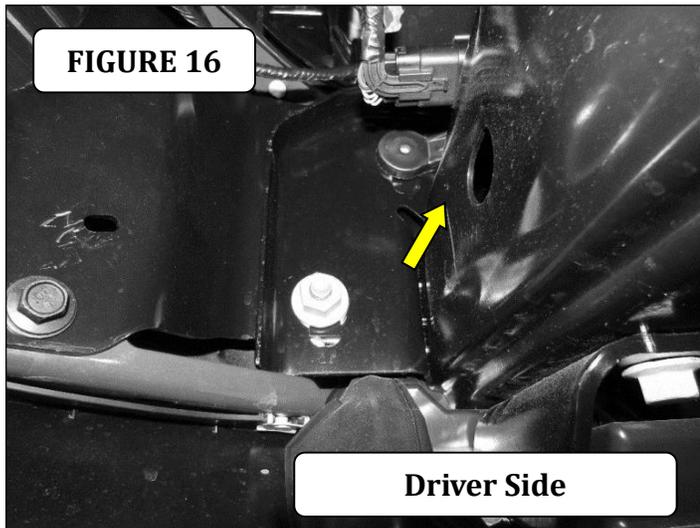
Step-12 With assistance lift the bumper shell up to the vehicle, align the holes in the bumper shell brackets with the holes in the mounting brackets, and weld nuts on the winch tray. Secure the bumper shell bracket to each side of the winch tray using (3) ½" x 1 1/2" hex bolts, (3) ½" lock washers and (3) ½" flat washers, (Figure 15). Leave the bolts loose for final adjustment.



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INSTALLATION INSTRUCTIONS

Step-13 Locate the existing hole on external side of the frame, (Figure 16). 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 1/2" hex nut. Secure the other end of the auxiliary bracket to the bumper bracket using (1) 3/8 x 1" hex bolt, (2) 3/8" flat, (1) 1/2" lock washer and (1) 3/8" hex nut. (Figure 17). Do not tighten. Repeat for the passenger side.



Step-14 With assistance, adjust and hold the bumper shell visual alignment position, then tighten all factory and supplied nuts and bolts. Note: It may be necessary to loosen the nuts and bolts securing the winch tray and brackets. If installing a winch, install the roller fairlead to the bumper shell at this time. Refer to the winch manufacturer's instructions for installation. If installing an BR6 bumper replacement optional light bar, install the light bar to the bumper replacement at this time. Refer to the light bar instructions for installation.

Step-15 Reinstall the passenger and driver side front vent covers to the bumper shell using the 1/4" x 1" SEMS bolts removed in step 11.

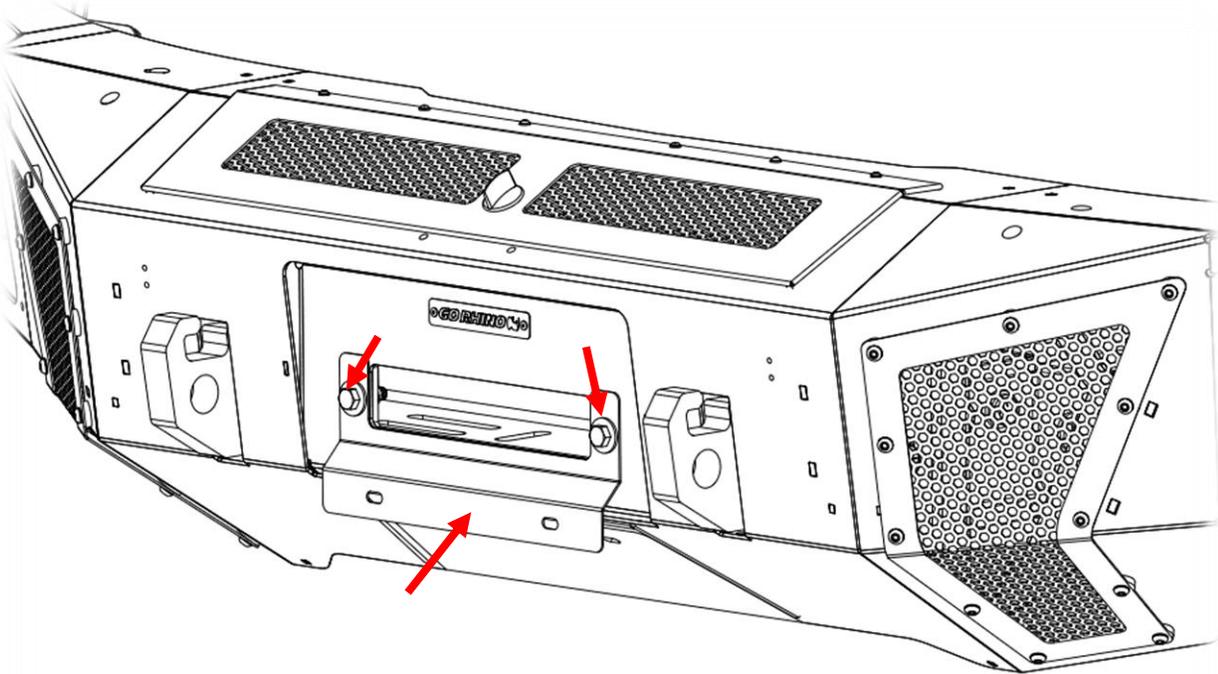


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INSTALLATION INSTRUCTIONS

Step-16 If your state law requires a front license plate, attach the license plate bracket to the holes in the face of the bumper shell, using the supplied 3/8" bolts, washers and nuts. Attach the license plate to the holes in the license plate bracket. If installing a winch, attach the license plate directly to the holes in the hitch cover, (Figure 19).

FIGURE 19





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. 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. 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.

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www.bigcountryauto.com

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