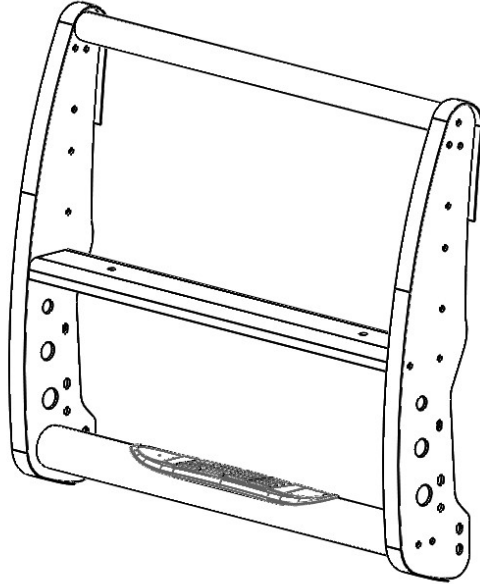




INSTALLATION INSTRUCTIONS



PART NO.

- 3296T

PRODUCT DESCRIPTION:

- 3000 SERIES STEP GUARD

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.



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.

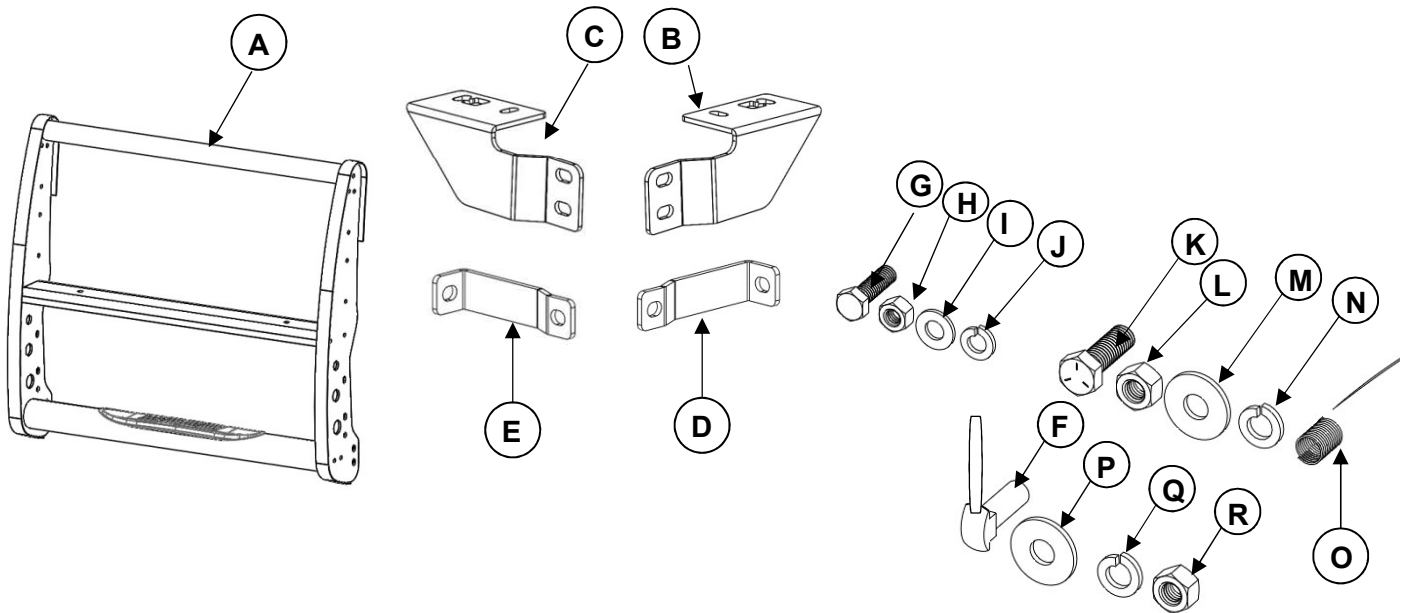
- Installation of some of these products may alter the factory sensor system performance.
- Factory sensors may read shackles or hooks protruding from the fairlead and or tow hooks.
- All sensor testing is completed by Go Rhino Products and or third party testing labs on modified vehicles.
- Sensor sensitivity, 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	3296T	Grille Guard (Unassembled)	J	12	AST-RPR07G4	3/8" Lock Washer
B	1	504334BA	Main Bracket (driver)	K	4	AST-T826G4	1/2 x 1 1/2" Hex Bolt
C	1	504334BA	Main Bracket (passenger)	L	4	AST-TU120G4	1/2" Hex nut
D	1	52962AA	Auxiliary Bracket (driver)	M	8	AST-RP115G4	1/2" Flat Washer
E	1	52962AA	Auxiliary Bracket (passenger)	N	4	AST-RPR69G4	1/2" Lock washer
F	4	501640AA	1/2" Tab bolt	O	1	AST-TU68	Bolt guide
G	12	AST-T861G4	3/8 x 1 1/4" Hex Bolt	P	4	AST-RPR01	1/2" Lock Washer
H	6	AST-TU105G4	3/8" Hex Nut	Q	4	AST-RP01	1/2" Flat Washer
I	8	AST-RP120G4	3/8" Flat Washer	R	4	AST-TU04	1/2" Hex nut



Go Rhino recommends you, the installer, read this installation instruction manual from front to back before installing the product.

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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INSTALLATION INSTRUCTIONS

GRILLE GUARD ASSEMBLY INSTRUCTIONS

Step-1 Begin the grille guard assembly by laying the components out on a protective surface.

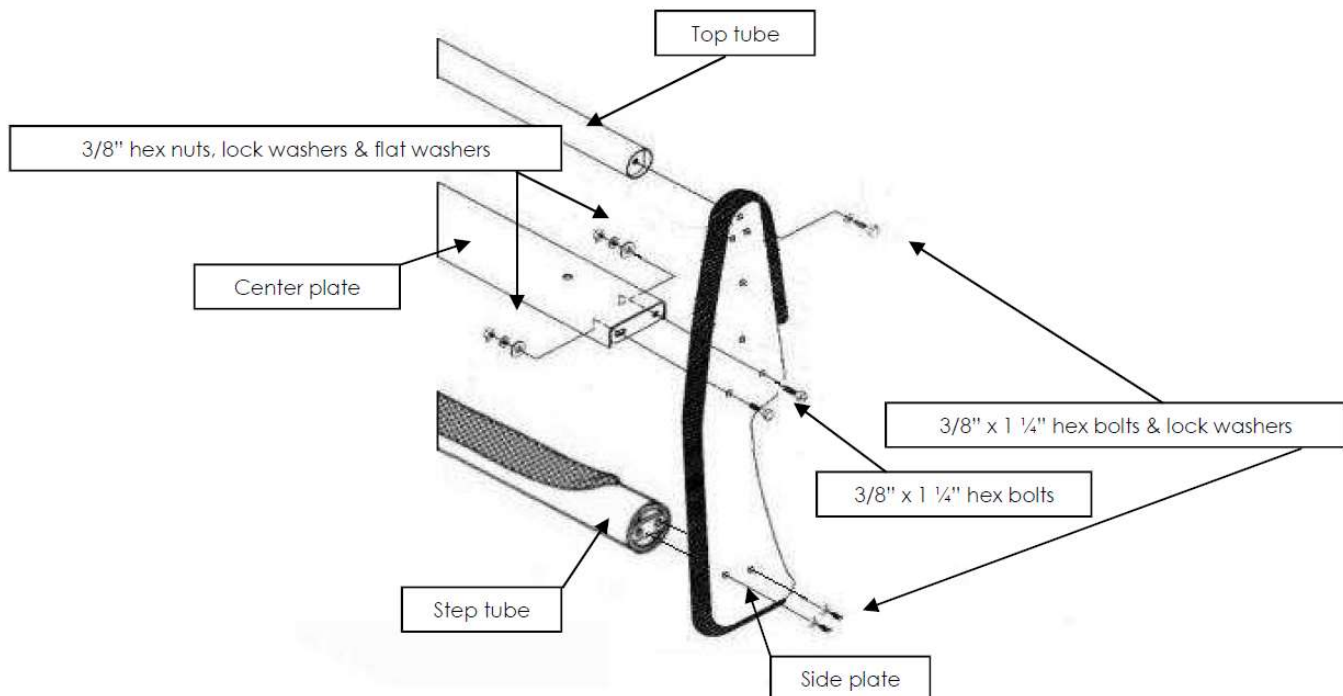
Step-2 Position the grille guard side plates with the front edge down and the 2" top and bottom step tube between the side plates.

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 only the center plate and step tube nuts and bolts.

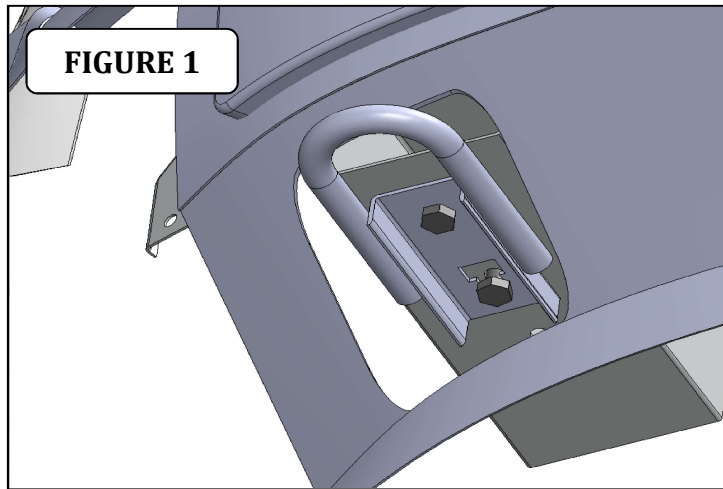


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INSTALLATION INSTRUCTIONS

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

Step-2 Remove the tow hooks by removing the front tow hook's bolt and loosen the rear tow hook's bolt. See Figure 1. **NOTE:** If vehicle does not have tow hooks follow to step 4.



Step-3 Slide the main bracket between the rear's tow hook bolt and frame then re-install the tow hook over the main bracket. Re-attach using the factory bolts removed in previous step. Figure 2. Leave loose. Follow to step 8.

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.

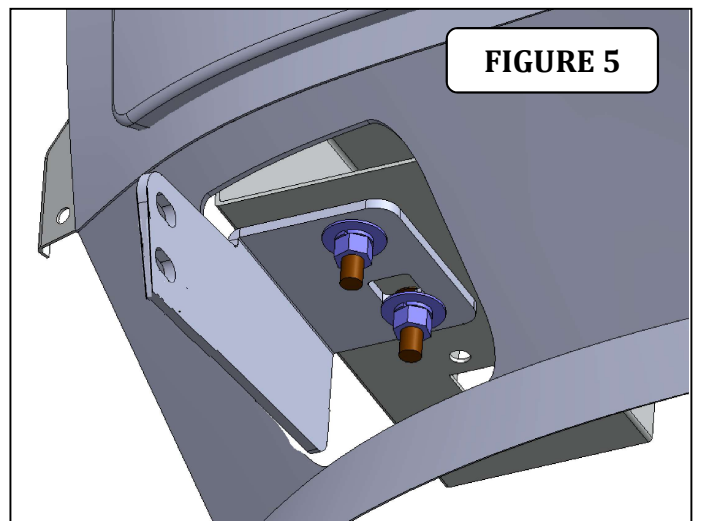
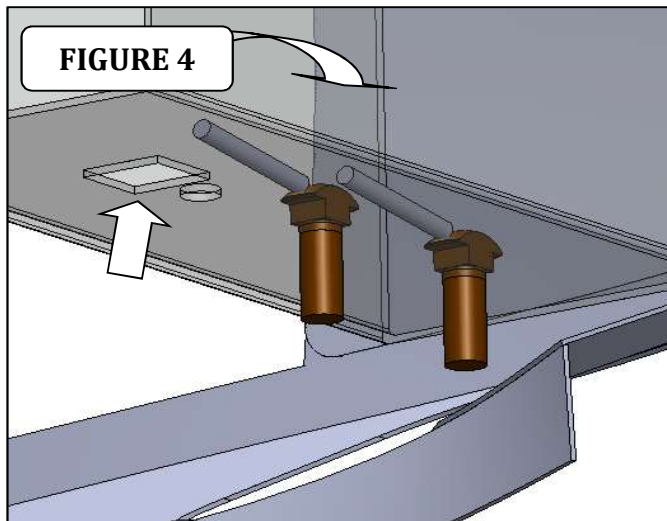


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INSTALLATION INSTRUCTIONS

Step-5 Once openings were made, place tab bolts into the frame holes as shown at Figure 4. Use the wire guide to place tab bolts.

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



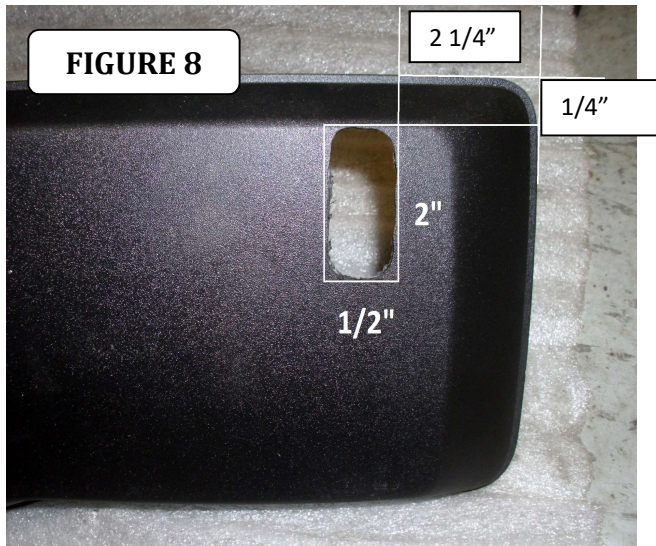
Step-7 Remove the plastic bumper cover (figure 6) and locate the outer factory nut. Remove the nut and position the auxiliary bracket. Secure the auxiliary bracket using the factory nut removed. Figure 7. Do not tighten.



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INSTALLATION INSTRUCTIONS

Step-8 Cut out the plastic bumper cover to allow the auxiliary bracket pass through. Figure 8. Place the plastic cover over the auxiliary bracket and bumper but do not install yet. Figure 9.



Step-9 Place the Grille Guard over the brackets. Secure the lower brackets using (2) 1/2 x 1 1/2" hex bolts, (4) 1/2" flat washers, (2) 1/2" lock washers and (2) 1/2" hex nuts. Secure to auxiliary bracket using (1) 3/8 x 1 1/4" hex bolt, (1) 3/8" flat washer, (1) 3/8" lock washer and (1) 3/8" hex nut. Leave loose. Figure 10.

Step-10 Align the Grille Guard with the front of the vehicle and tighten all bolts and nuts. Reinstall the plastic bumper cover.

Step-11 Periodically it may need re-tighten the bolt.

