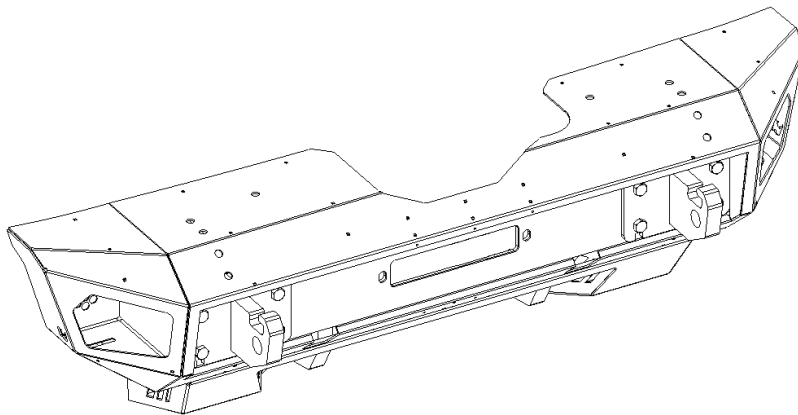




INSTALLATION INSTRUCTIONS



PART NO.

- 230211T

PRODUCT DESCRIPTION:

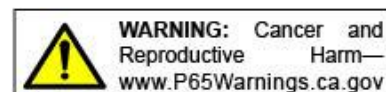
- TRAILLINE FRONT WINCH BUMPER - STUBBY

APPLICATION:

- JEEP WRANGLER JL & JT

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.

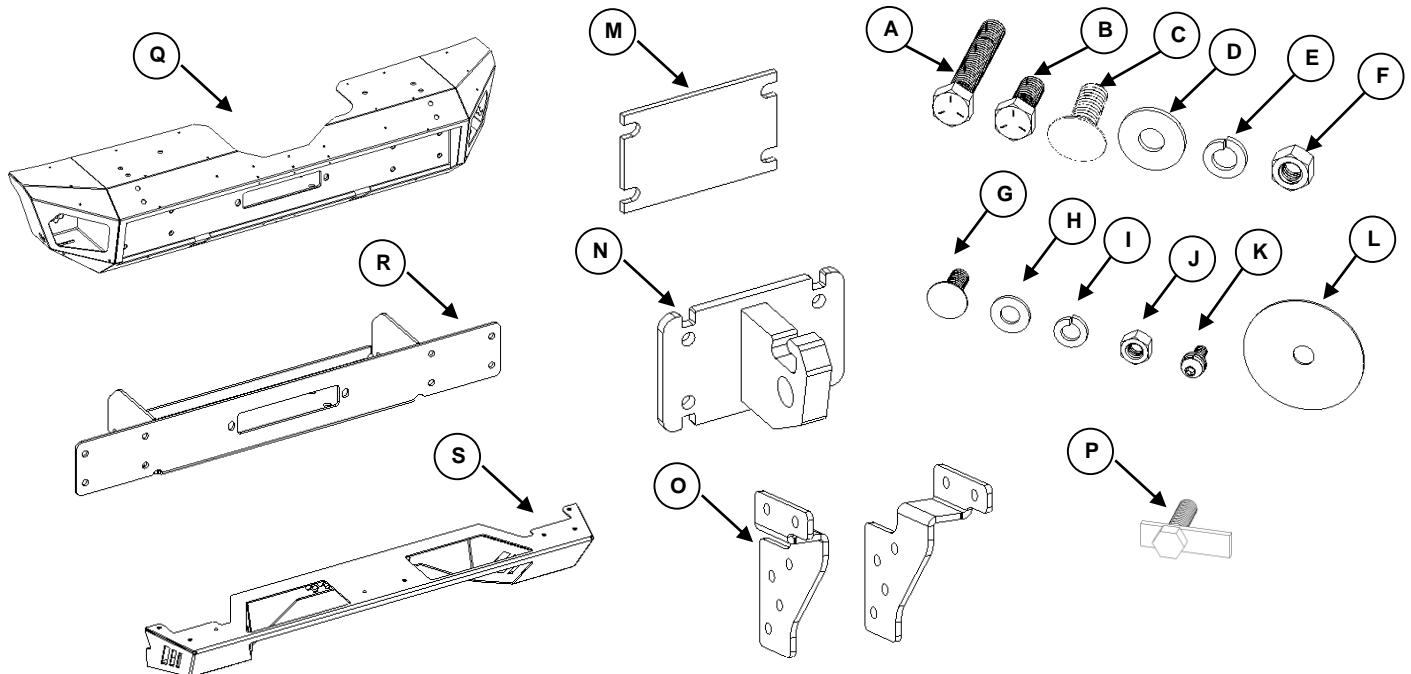
- Installation of some of these products may alter the factory sensor system performance.
- Factory sensors may read shackles or hooks protruding from the fairlead and or tow hooks.
- All sensor testing is completed by Go Rhino Products and or third party testing labs on modified vehicles.
- Sensor sensitivity,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



INSTALLATION INSTRUCTIONS

PARTS INCLUDED IN THIS LIST:

ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
A	8	1/2" x 3" Hex Head Bolt	K	8	1/4" x 1" Button SEMS bolt
B	4	1/2" x 1 1/4" Hex Head Bolt	L	4	Vinyl Gasket
C	4	1/2" x 1 1/4" Carriage Head Bolt	M	10	Spacer Plate
D	28	1/2" Flat Washer	N	4	Tow Hook Bracket
E	16	1/2" Lock Washer	O	1 pair	Auxiliary Bracket
F	16	1/2" Hex Nut	P	4	3/8" Bolt Plate
G	4	3/8 x 1 1/4" Carriage head bolt	Q	1	Trail line Front Bumper-Stubby
H	8	3/8" Flat Washer	R	1	Winch Tray
I	8	3/8" Lock Washer	S	1	Skid Plate
J	8	3/8" Hex Nut			



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

TOOLS NEEDED FOR INSTALLATION:

- Inch & Metric Sockets / Ratchet, Ratchet Extensions & Swivel Joint Adapter
- Inch & Metric Wrenches
- Slotted Screw Driver or Panel clip removal tool
- 5/32" Hex Key
- Drill Motor & 1/2" Drill Bit

ESTIMATED TIME FOR INSTALLATION:

1 1/2 hrs.

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

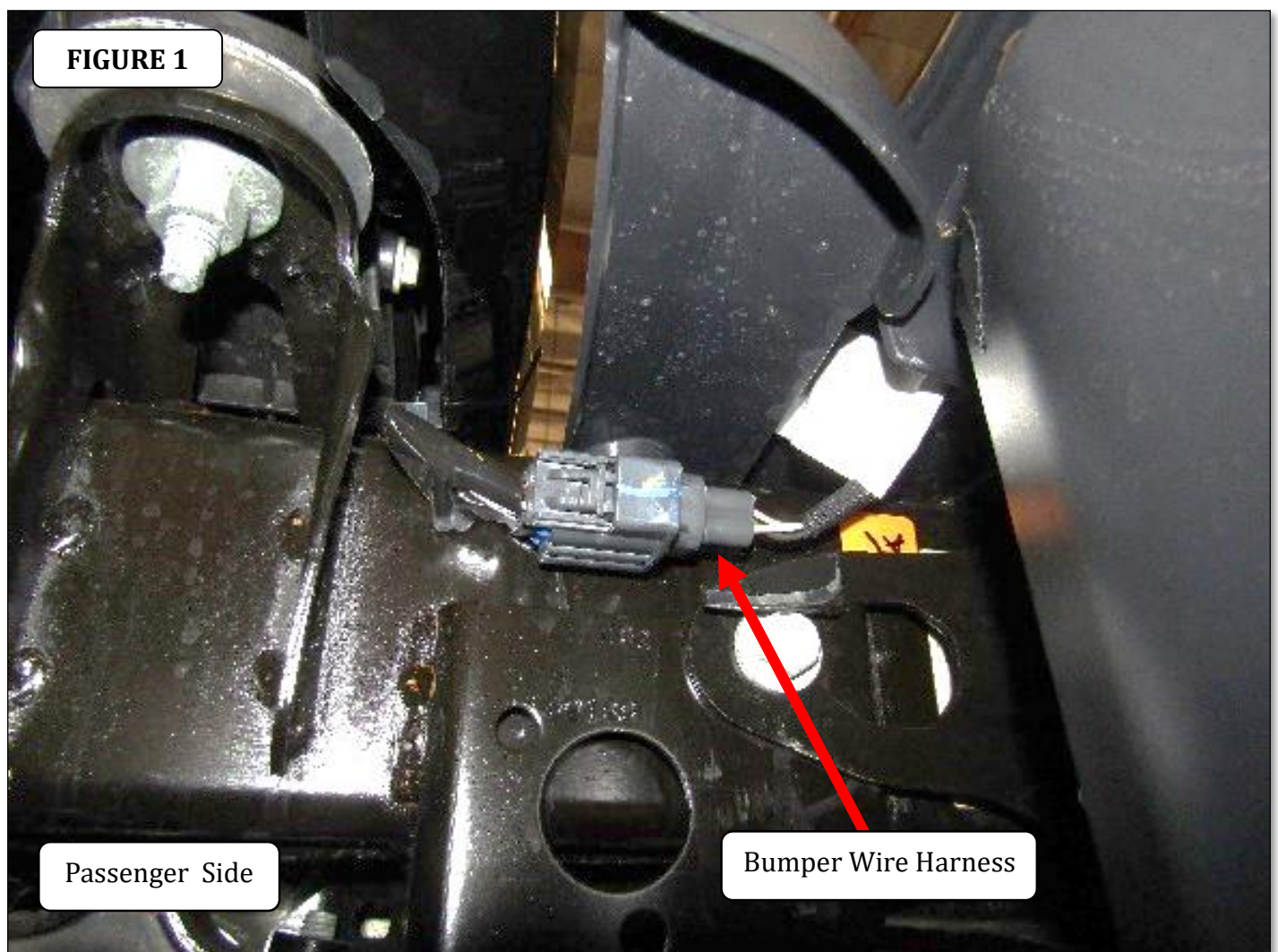


INSTALLATION INSTRUCTIONS

Wrangler JL & JT OEM Bumper Removal

Step-1 Open the hood and disconnect the vehicle battery or batteries.

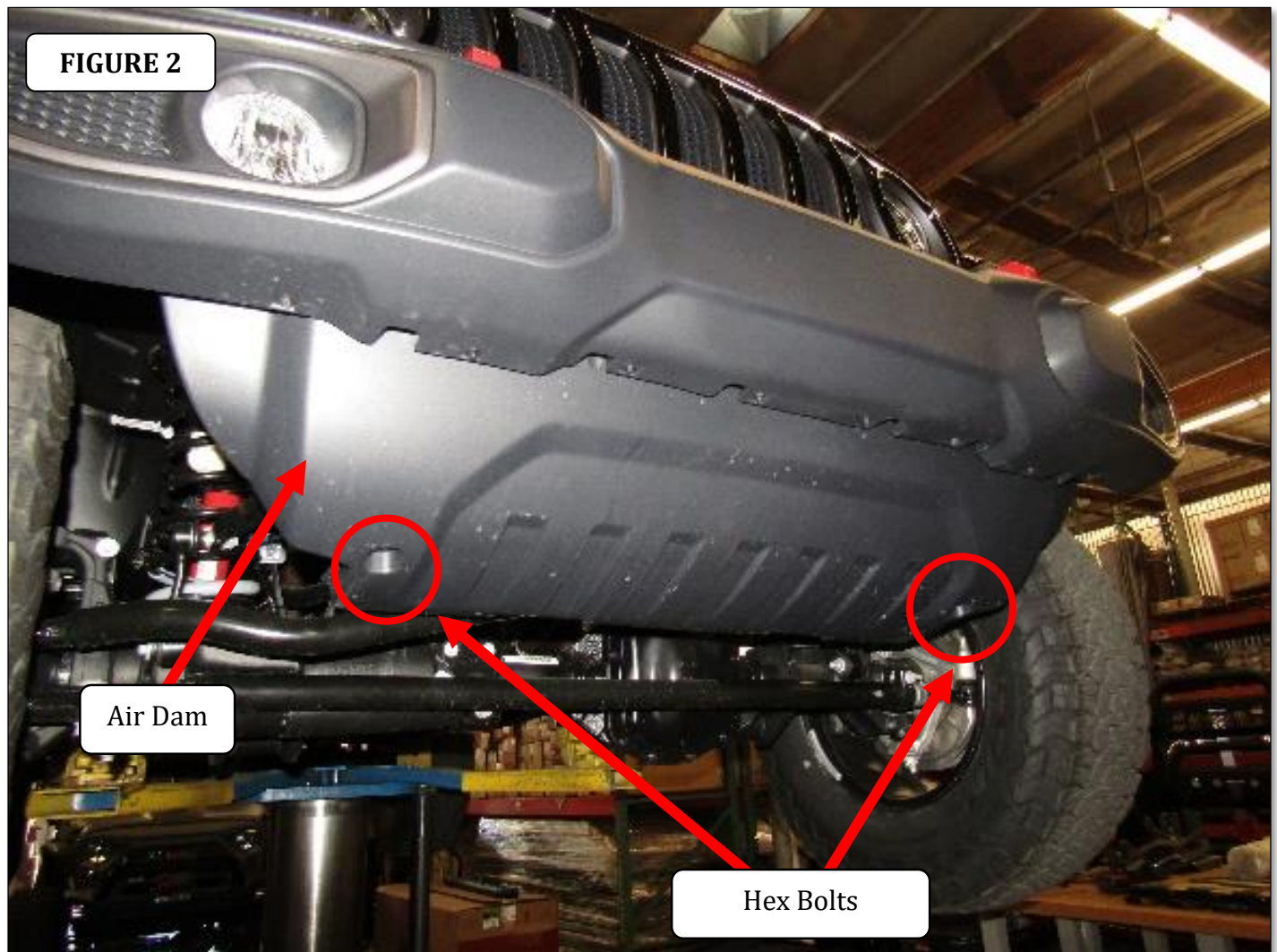
Step-2 On the passenger side, disconnect the bumper wire harness from the vehicle wire harness, (FIGURE 1).





INSTALLATION INSTRUCTIONS

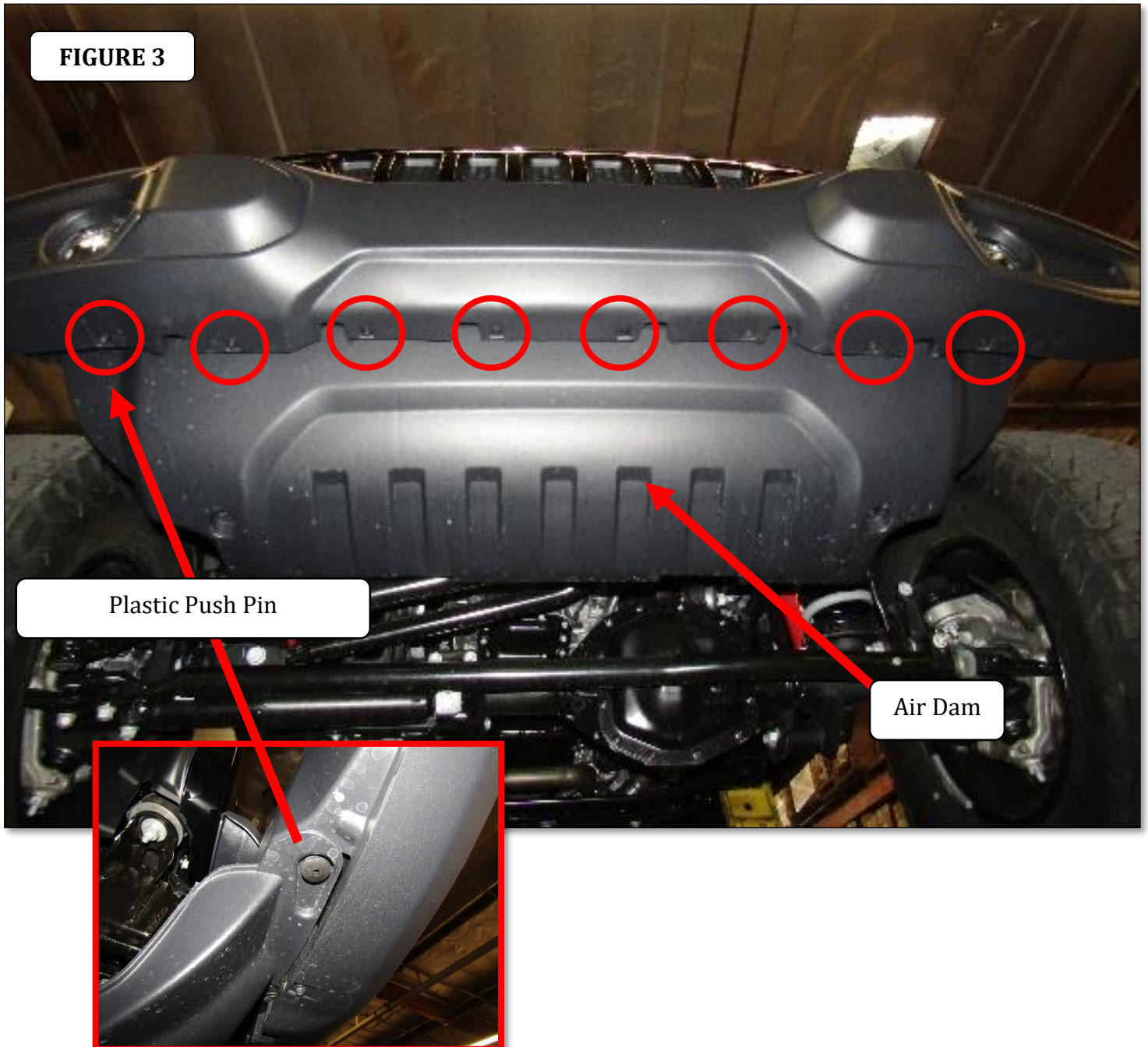
Step-3 Using an 8mm socket, remove (1) hex bolt on each side of the vehicle securing the air dam to the metal shield behind the air dam, (FIGURE 2).





INSTALLATION INSTRUCTIONS

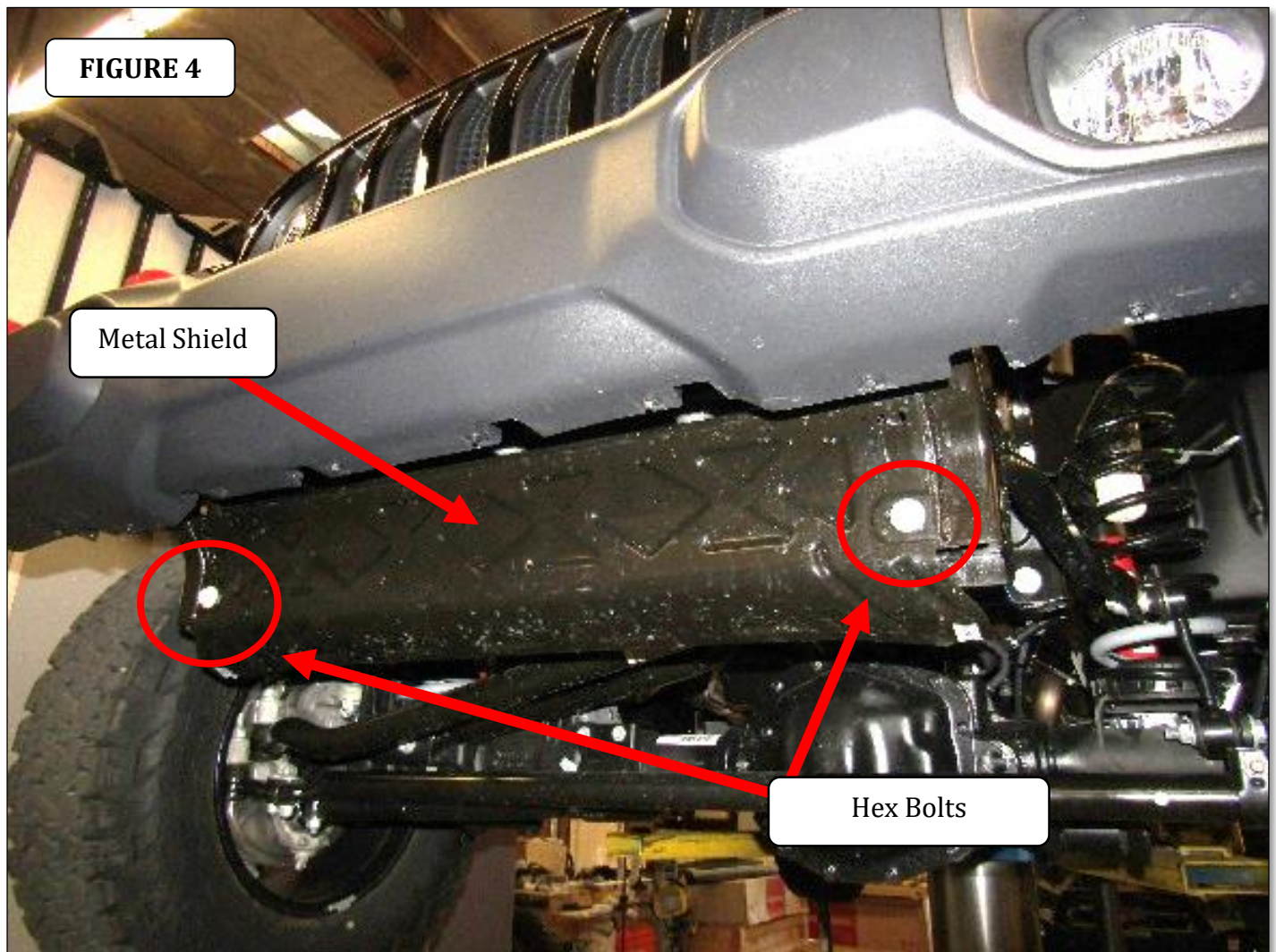
Step-4 Using a slot screwdriver or panel clip removal tool, remove the (8) plastic push pins securing the air dam to the bumper, (FIGURE 3). Remove the air dam from the vehicle.





INSTALLATION INSTRUCTIONS

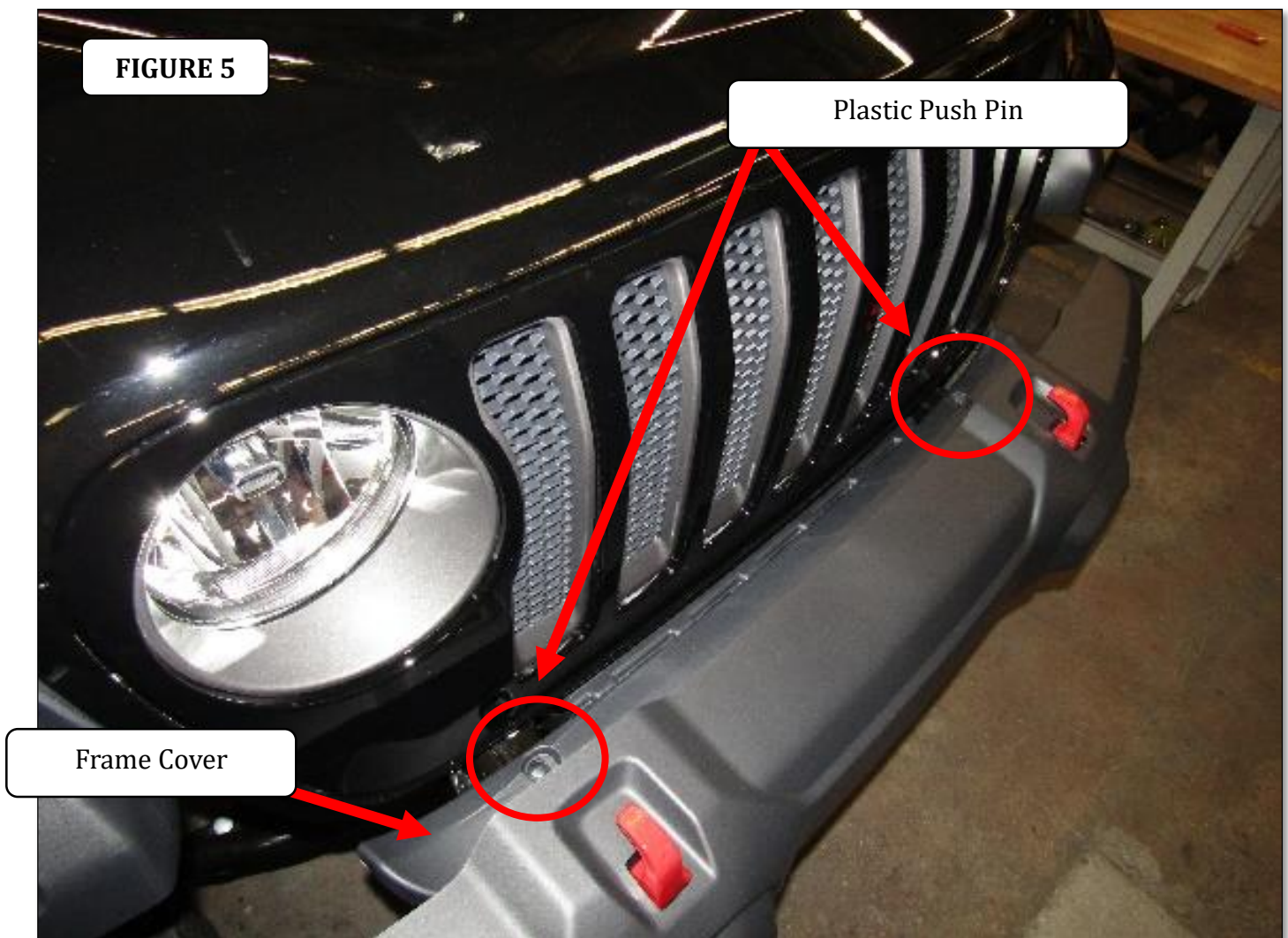
Step-5 Using a 16mm socket remove, the (2) hex bolts securing the metal shield to the frame, (FIGURE 4). Remove the metal shield from the vehicle.





INSTALLATION INSTRUCTIONS

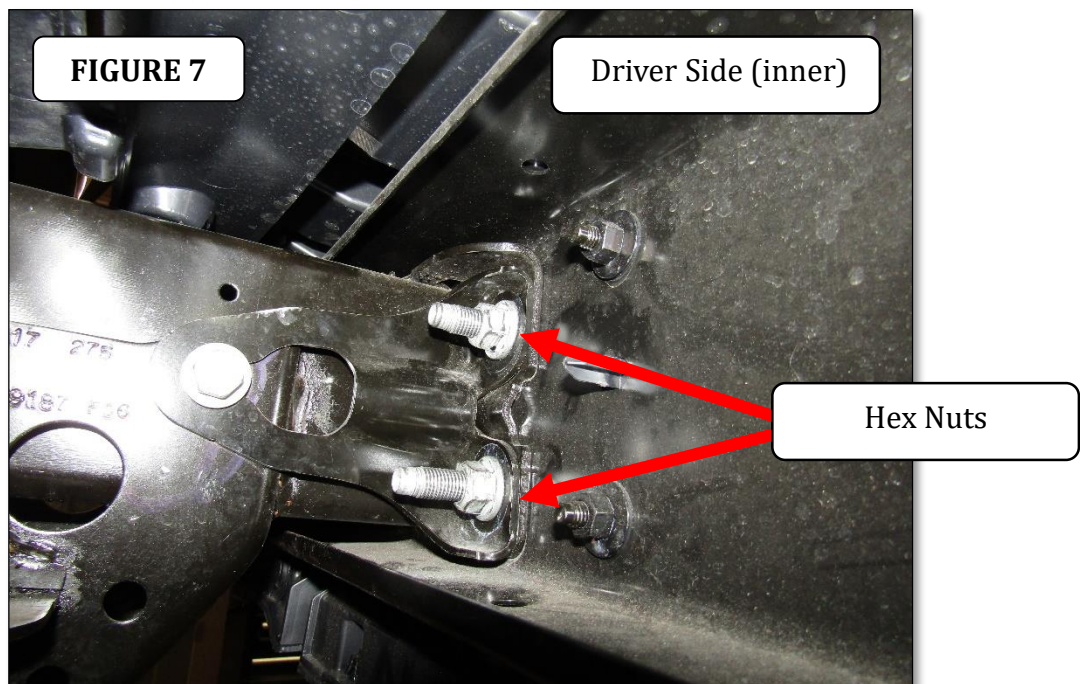
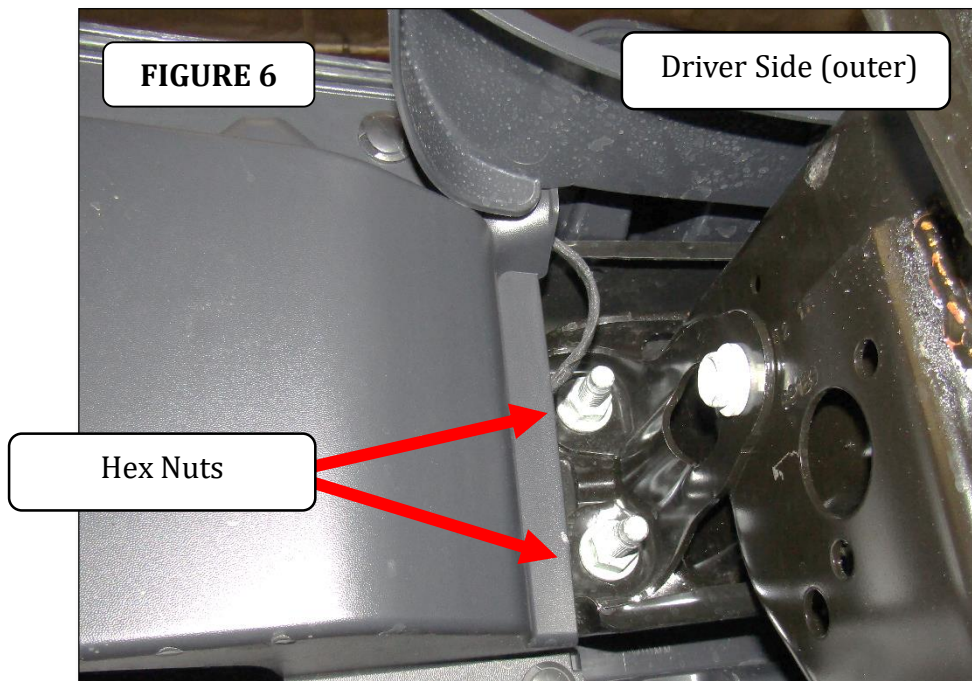
Step-6 on each side of the vehicle, use a slot screwdriver or panel clip removal tool and remove (1) plastic push pin securing the frame cover to the frame rail, (FIGURE 5).





INSTALLATION INSTRUCTIONS

Step-7 On each side of the vehicle, use an 18mm socket and remove the (2) hex nuts from the studs on each side of the vehicle frame securing the OEM front bumper to the frame, (FIGURE 6 & 7).

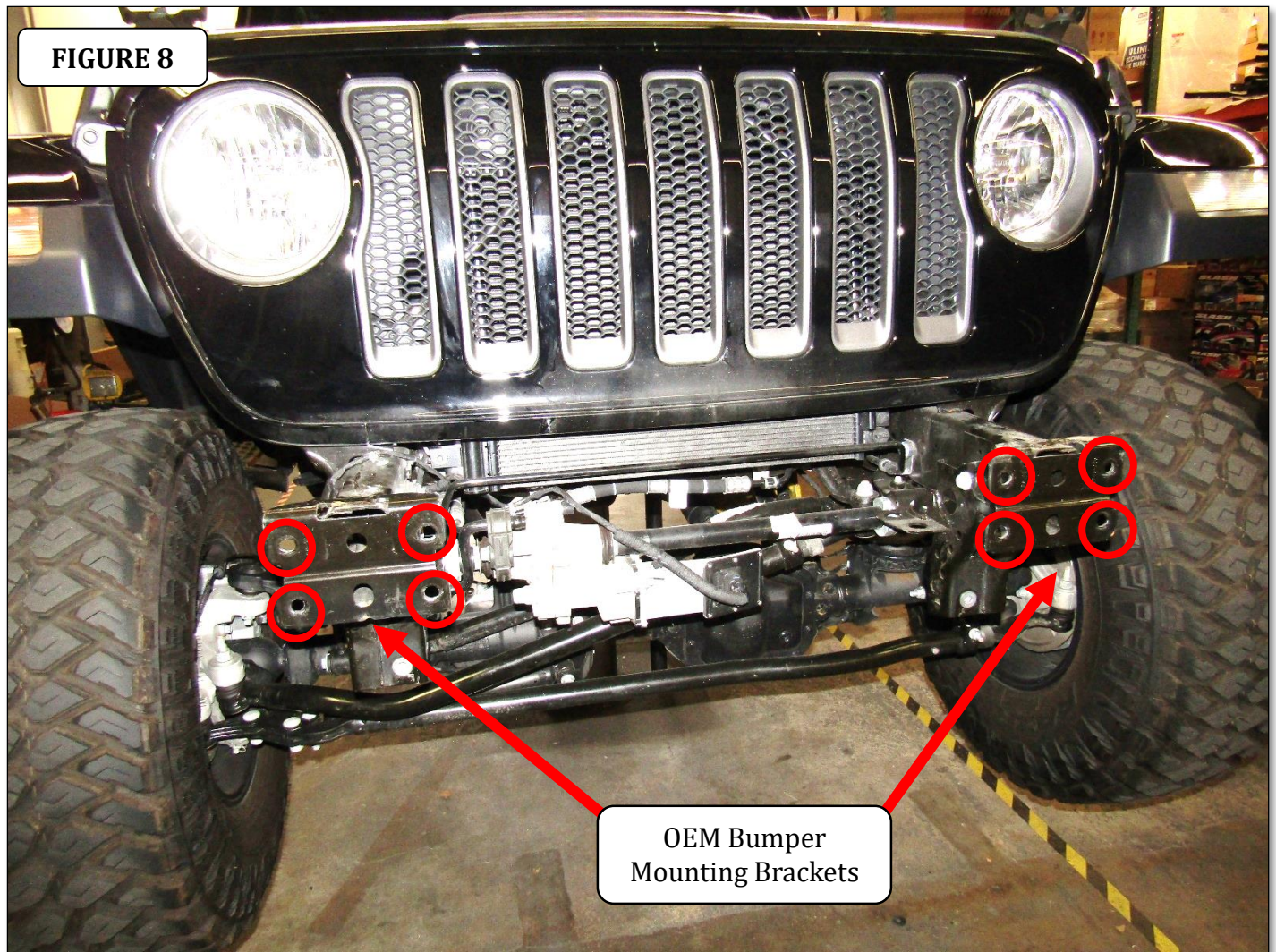




INSTALLATION INSTRUCTIONS

Step-8 With assistance remove the OEM front bumper from the vehicle.

Step-9 On each side of the vehicle, drill the OEM bumper mounting bracket holes to 1/2", (FIGURE 8).

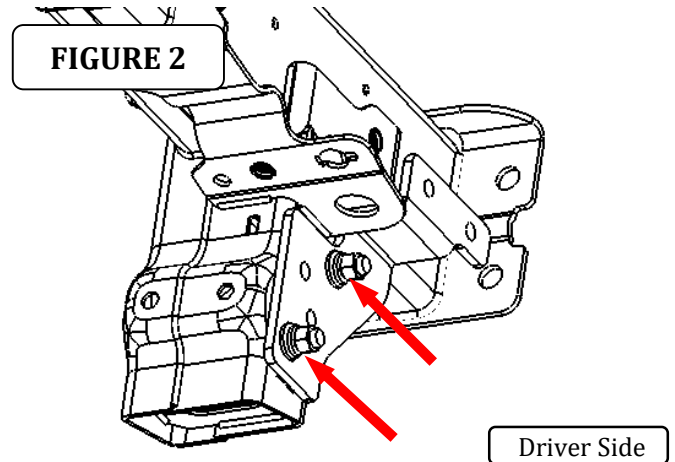
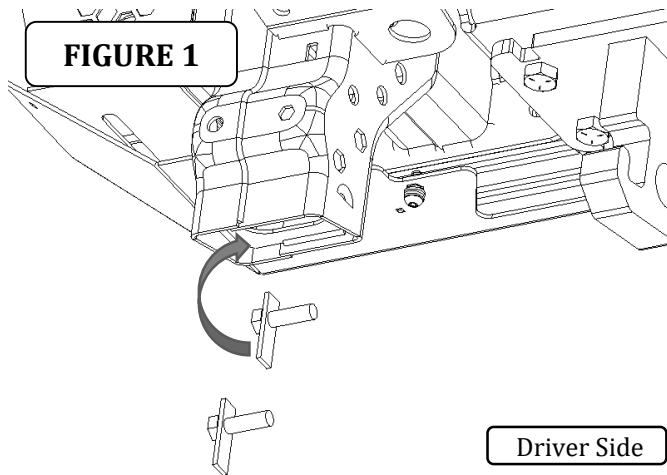




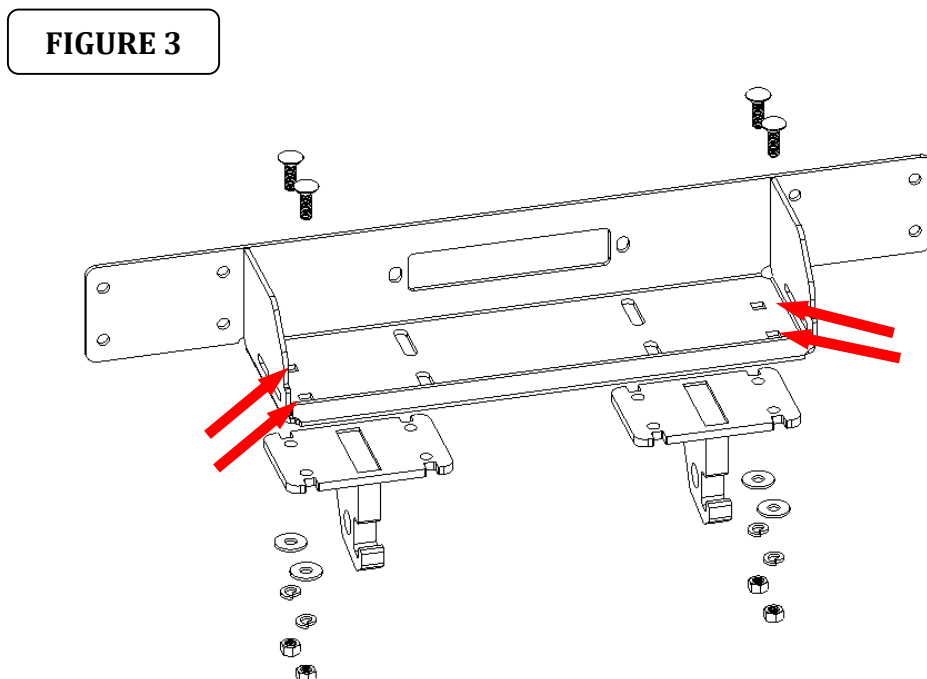
INSTALLATION INSTRUCTIONS

Trailline Bumper Installation

Step-1 Use the bottom opening of the frame horn to install (2) 3/8" bolt plates in the holes on each side, (FIGURE 1). Place a vinyl gaskets on the bolts to prevent the bolt plate from falling out of the frame horn. Install auxiliary bracket onto the frame horn and secure using (2) 3/8" flat and lock washers and (2) 3/8" hex nuts onto the 3/8" bolt plates, (FIGURE 2). Leave the nuts and bolt plates loose for final adjustment.



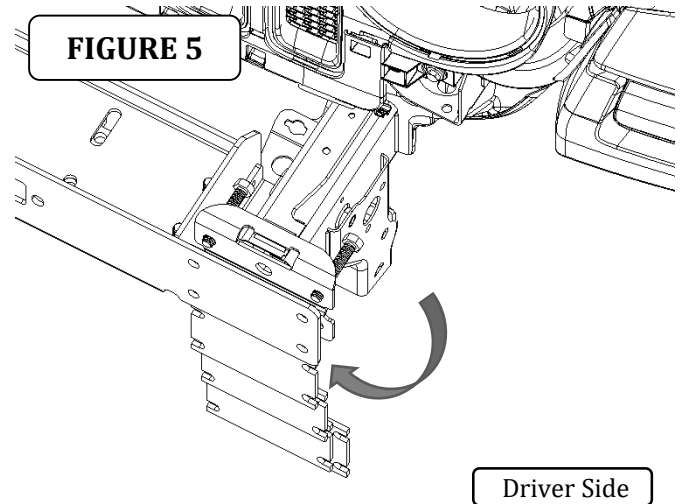
Step-2 Install the tow hook brackets on the bottom of the winch tray, beginning with the outer holes using (2) 1/2" x 1 1/4" carriage bolts, (2) 1/2" flat washers, (2) 1/2" lock washers and (2) 1/2" hex nuts, bolts, per side (FIGURE 3). Leave the nuts and bolts loose for final adjustment.



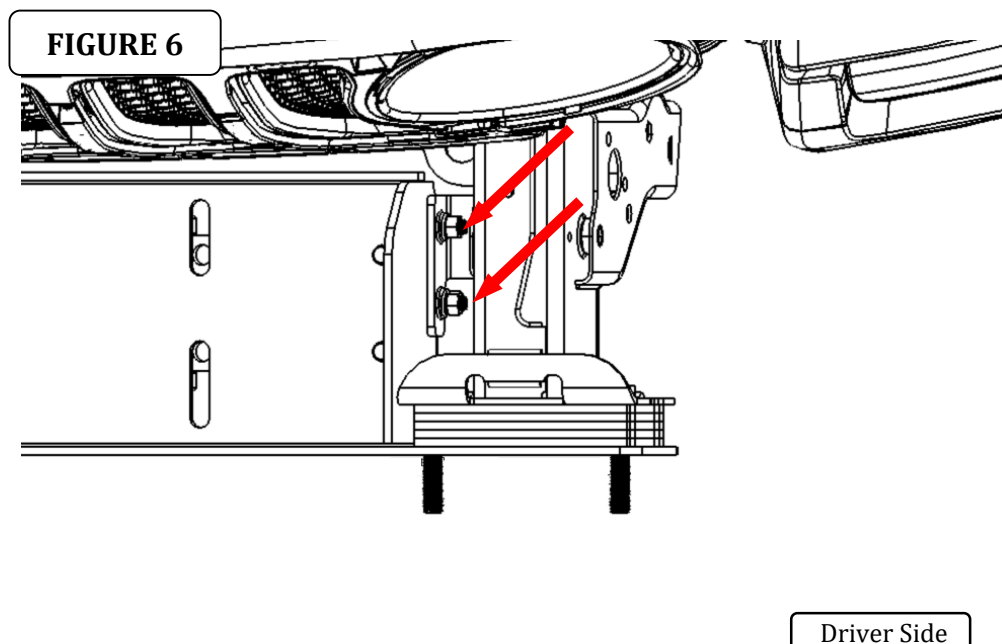


INSTALLATION INSTRUCTIONS

Step-3 Position the spacers between the end of the frame and the winch tray, use more spacers if you want the bumper further away or use less if you want the bumper closer to the vehicle grille, (FIGURE 4) . Align the holes in the spacers with the upper holes in the frame end plate. Introduce two bolts from the inside of the frame end plate through the spacers and the winch tray holes , (FIGURE 5 & 6).



Step-4 Secure the auxiliary bracket to the winch tray using (2) 3/8" x 1 1/4" carriage bolts, (2) 3/8" flat and lock washers and (2) 3/8" hex nuts per side, (FIGURE 6). Tighten the nuts.

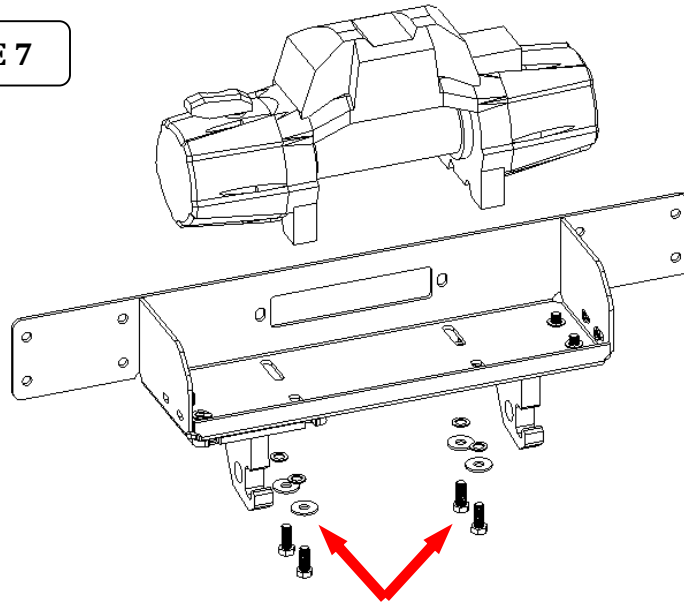




INSTALLATION INSTRUCTIONS

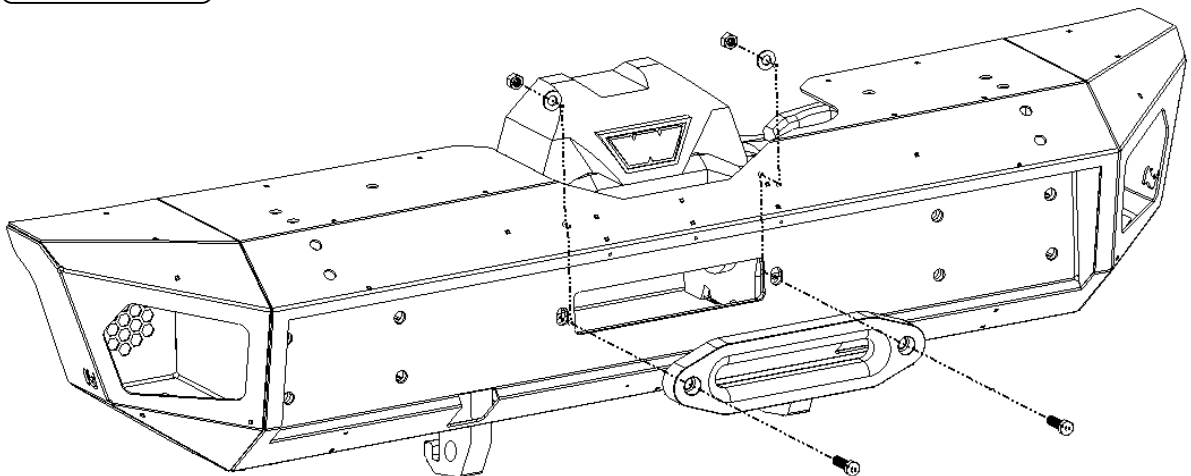
Step-5 Position the winch on the tray, secure the hook brackets previously positioned and the winch using the hardware's winch at the inner holes (FIGURE 7). Leave bolts loose for final adjustment.

FIGURE 7



Step-6 Place the fairlead (sold separately) onto the bumper and attached it using it's own hardware. (FIGURE 8)

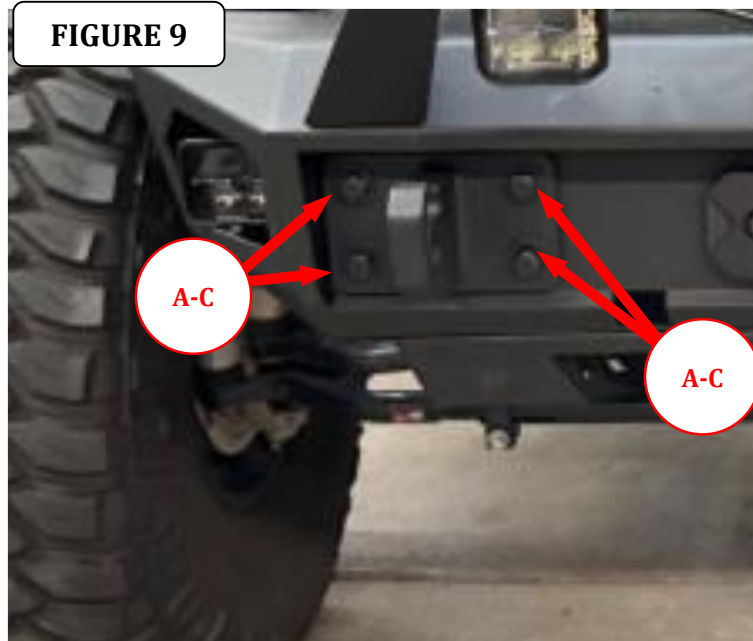
FIGURE 8



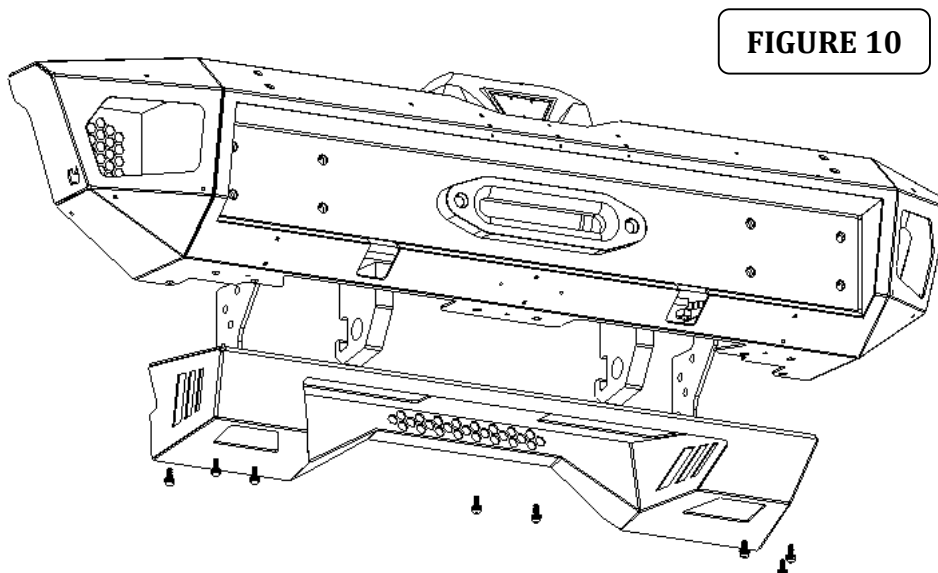


INSTALLATION INSTRUCTIONS

Step-7 With assistance lift the Trailline front bumper up to the vehicle, align the holes in the face of the bumper and the hook brackets with the bolts previously installed. Secure the bumper and tow hook brackets on the other empty holes using (2) $\frac{1}{2}$ " x 3" hex bolts, (4) $\frac{1}{2}$ " flat washers, (2) $\frac{1}{2}$ " lock washers and (2) $\frac{1}{2}$ " hex nuts. Once you secure the two bolts, remove the bolts that were previously installed, one bolt at a time, to turn it around and secure it using same hardware as described before, (FIGURE 9). Leave the nuts and bolts loose for final adjustment.



Step-8 Adjust and hold the bumper visual alignment position, then tighten the nuts and bolts securing the bumper and auxiliary brackets to the vehicle frame. Place the lower skid and secure to the bumper using (8) $\frac{1}{4}$ x 1" SEMS bolts, (FIGURE 10).





INSTALLATION INSTRUCTIONS

Step-10 Check and retighten all nuts and bolts periodically.





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. 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.

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