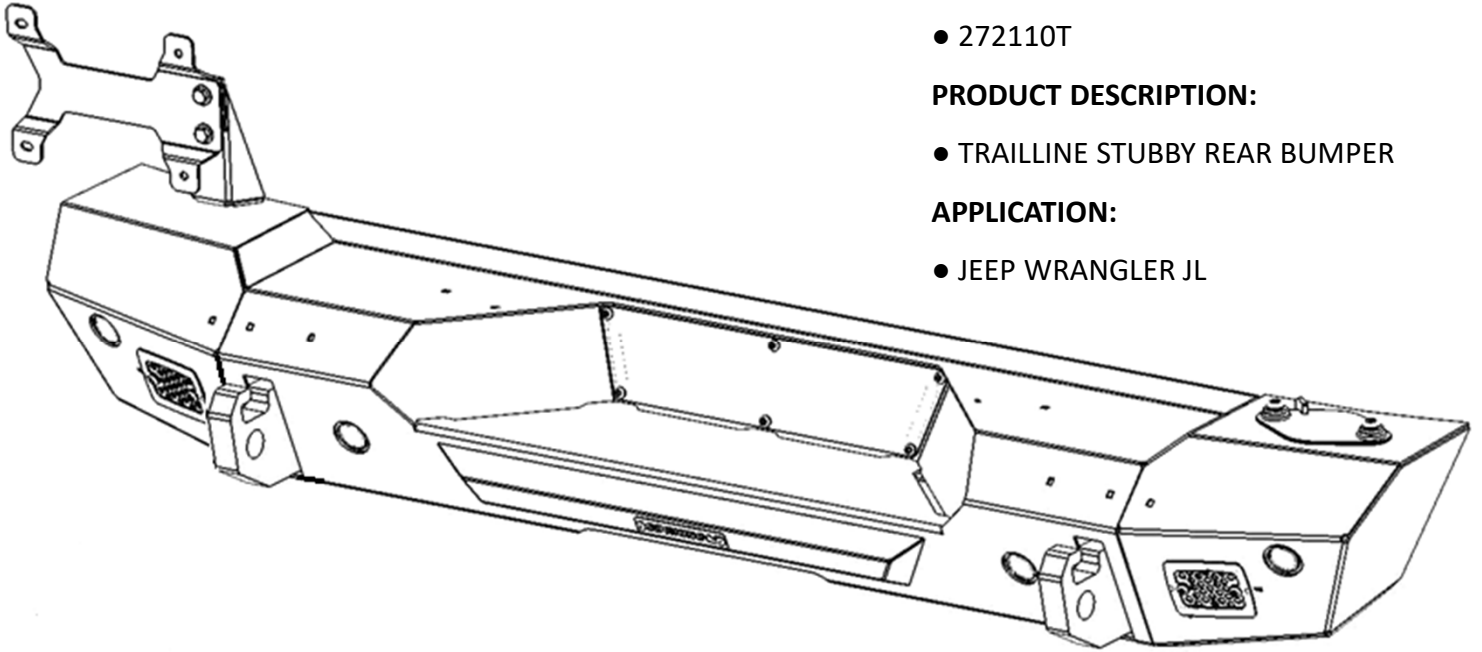


GO RHINO®

INSTALLATION INSTRUCTIONS



PART NO.

- 272110T

PRODUCT DESCRIPTION:

- TRAILLINE STUBBY REAR BUMPER

APPLICATION:

- JEEP WRANGLER JL

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.

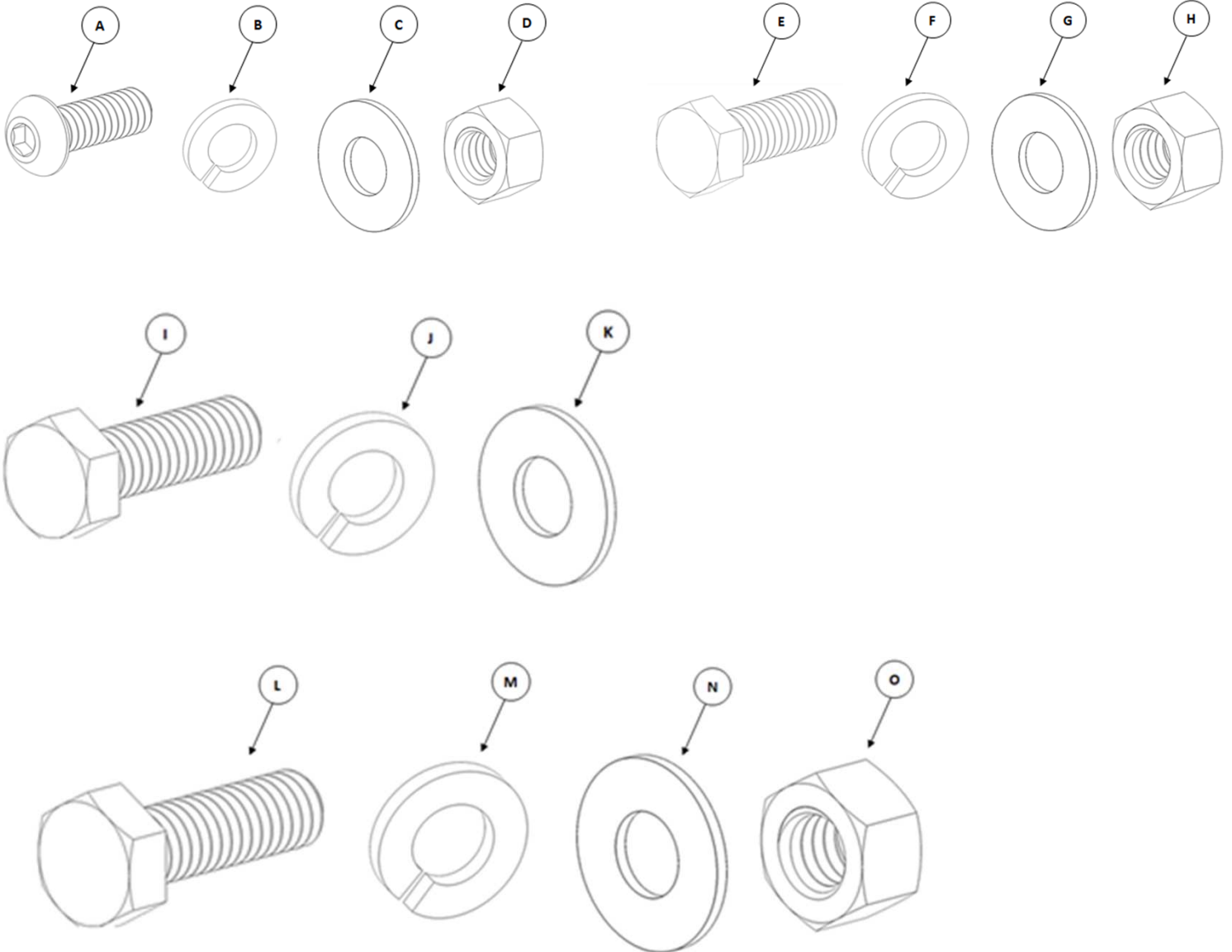
- Installation of some of these products may alter the factory sensor system performance.
- Factory sensors may read shackles or hooks protruding from the fairlead and or tow hooks.
- All sensor testing is completed by Go Rhino Products and or third party testing labs on modified vehicles.
- Sensor sensitivity, 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.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
A	4	1/4" x 3/4" Button Head Hex Drive Bolt	I	2	3/8" x 1 1/4" Hex Bolt
B	4	1/4" Lock Washer	J	2	3/8" Lock Washer
C	8	1/4" Flat Washer	K	2	3/8" Flat Washer
D	4	1/4" Hex Nut	L	4	1/2" X 1 1/2" Hex Bolt
E	4	5/16" x 1" Hex Bolt	M	8	1/2" Lock Washer
F	4	5/16" Lock Washer	N	8	1/2" Flat Washer
G	8	5/16" Flat Washer	O	4	1/2" Hex Nut
H	4	5/16" Hex Nut			

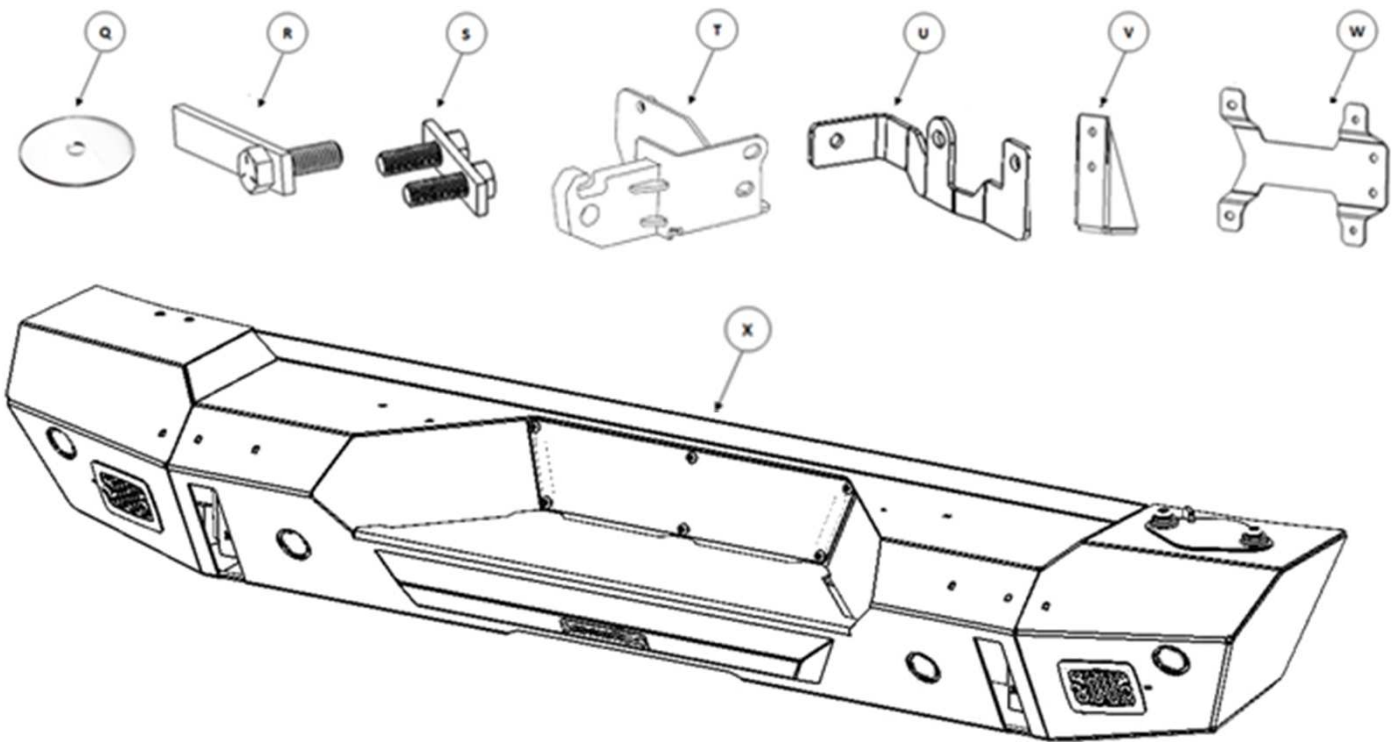


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INSTALLATION INSTRUCTIONS

PARTS INCLUDED IN THIS LIST:

ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
Q	2	Vinyl Washer	V	1	License Plate Base Bracket
R	2	1/2" Bolt Plate	W	1	License Plate Bracket
S	1	1/2" Double Bolt Plate	X	1	Tralline Stubby Rear Bumper
T	1Pr.	Frame Bracket (Passenger Side Shown)			
U	1Pr.	Corner bracket (Passenger Side Shown)			



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

TOOLS NEEDED FOR INSTALLATION:

- 8mm, 16mm, 18mm, 21mm, 7/16", 1/2" & 3/4" Sockets
- 8mm, 16mm, 18mm, 21mm, 7/16", 1/2" & 3/4" Wrenches
- 5/32" Hex Key
- Ratchet, Ratchet Extensions & Swivel Joint Adapter

ESTIMATED TIME FOR INSTALLATION:

2 Hour

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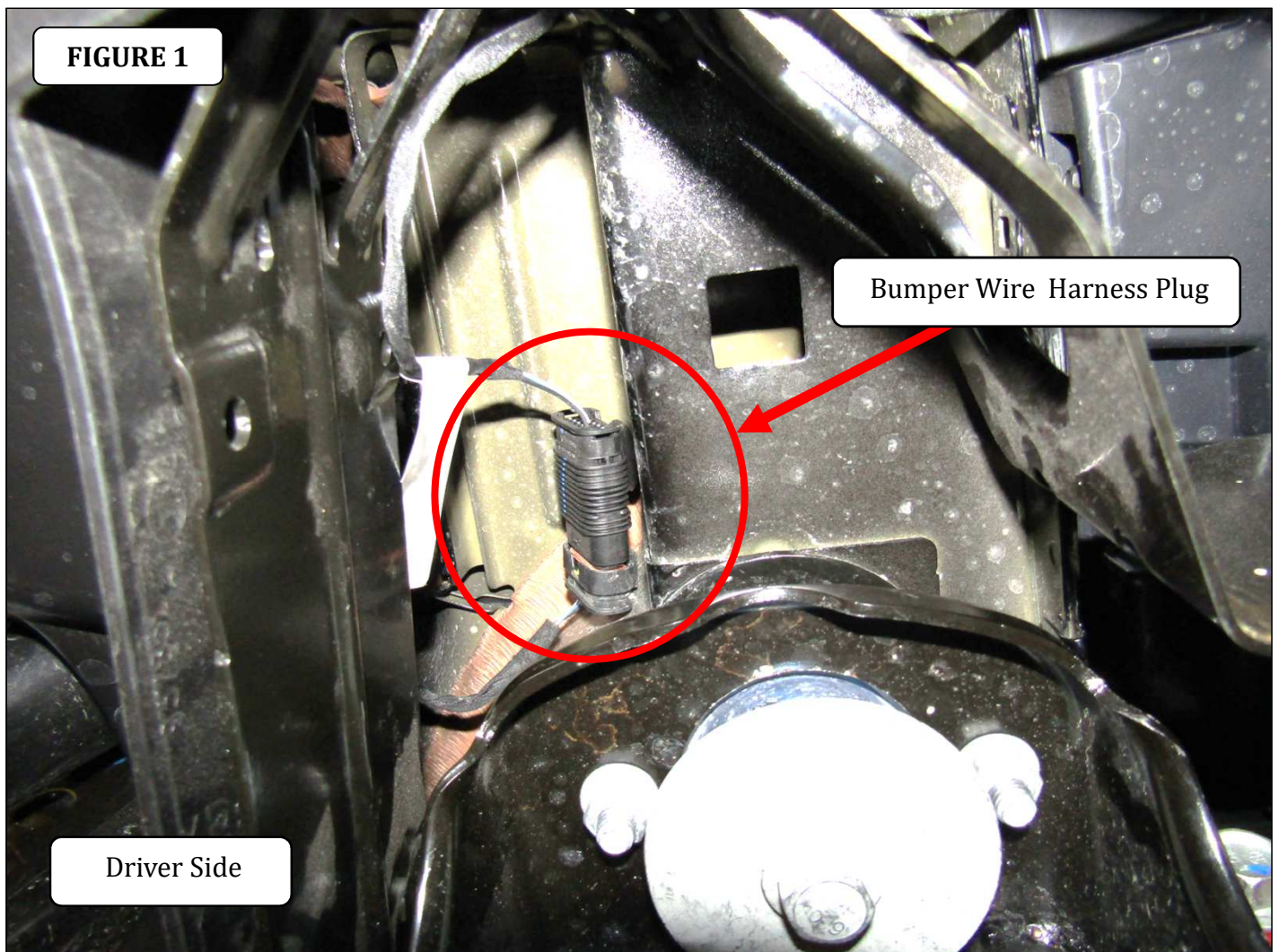
INSTALLATION INSTRUCTIONS

OEM Bumper Removal

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

Step-2 Remove the OEM spare tire.

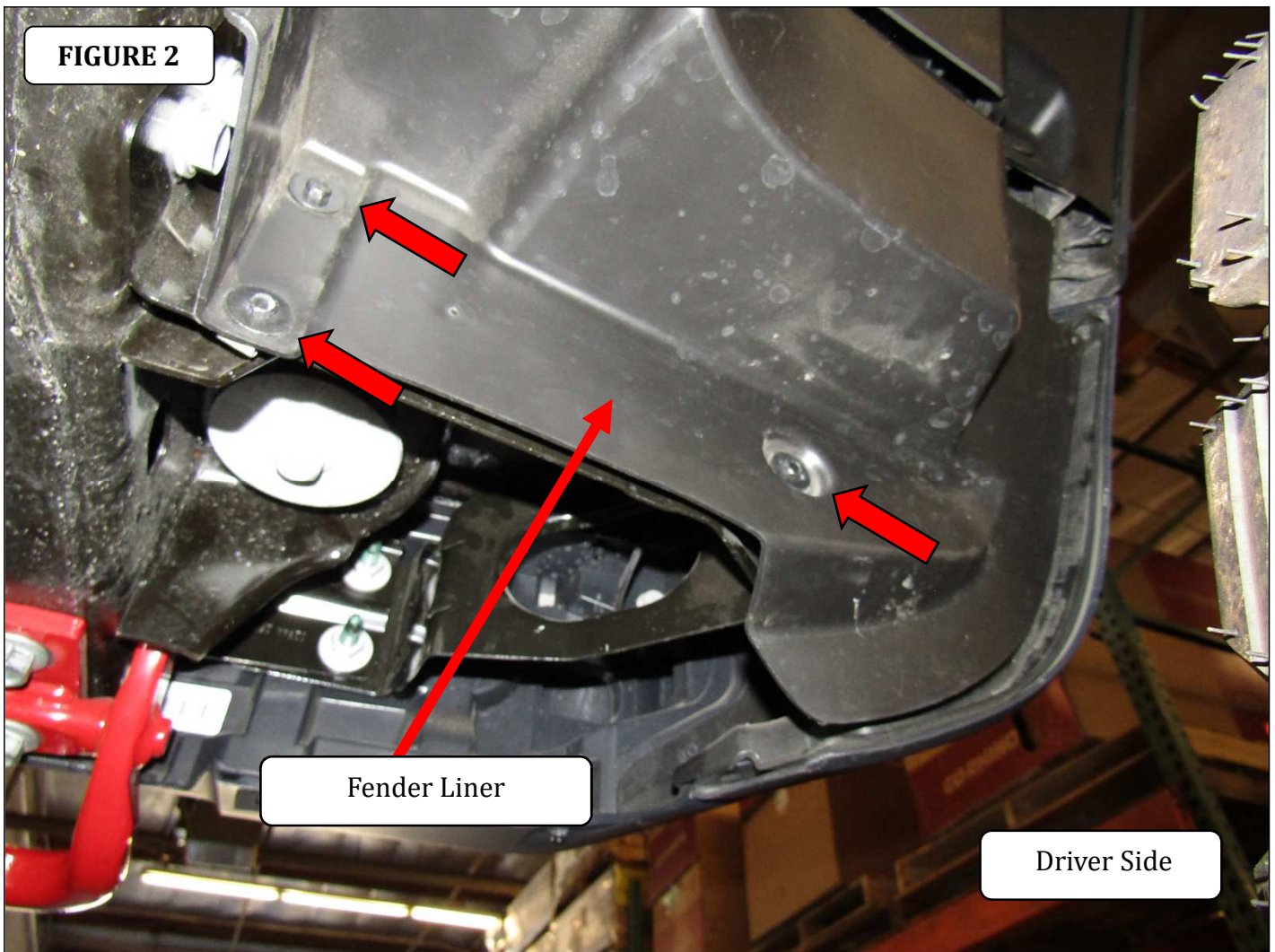
Step-3 On the driver side, disconnect the bumper wire harness from the vehicle harness, (FIGURE 1).



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INSTALLATION INSTRUCTIONS

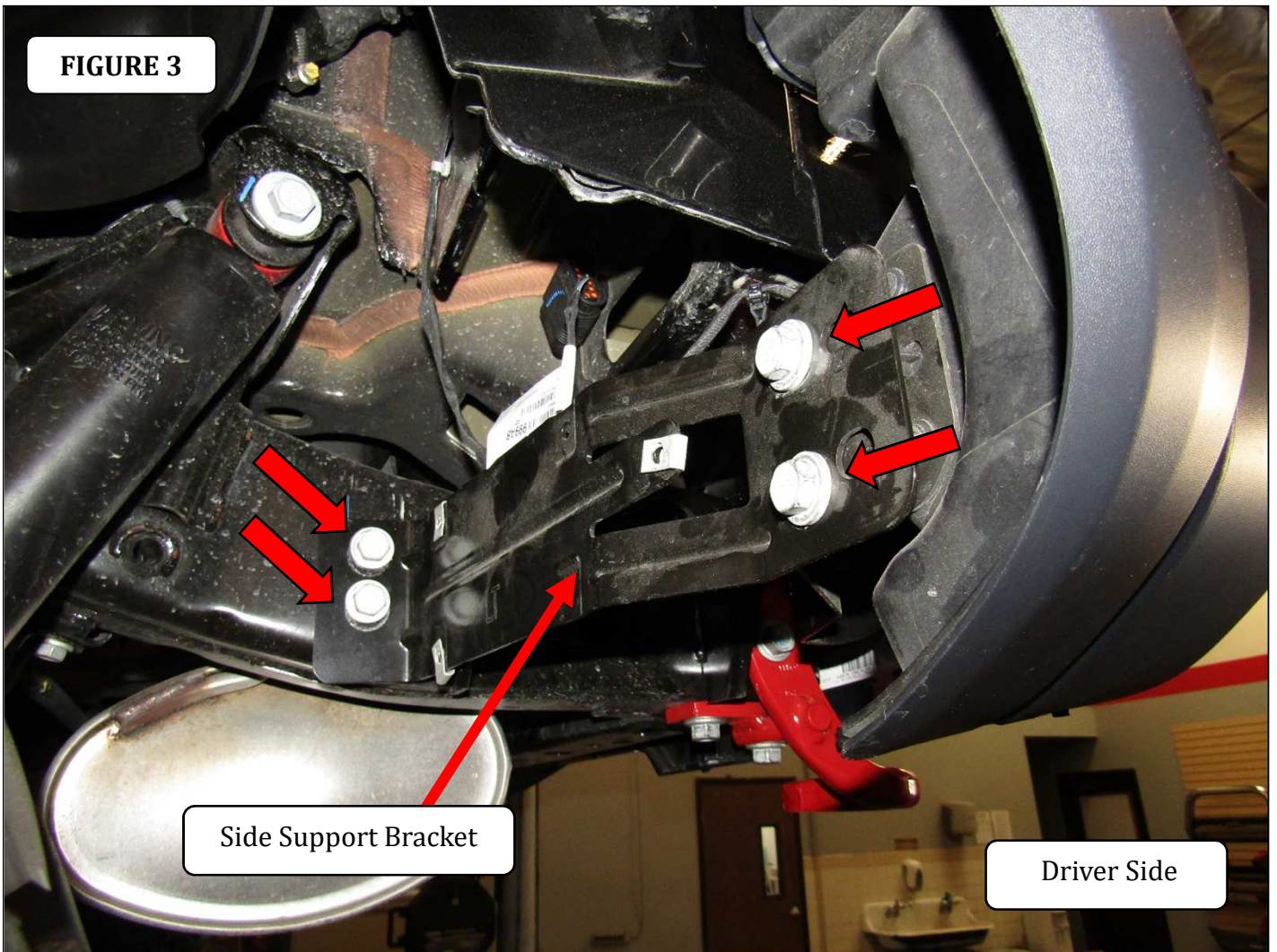
Step-4 On each side of the vehicle, use a M8 socket and remove the (3) screws securing the lower section of the fender liner to the bumper side support bracket, (FIGURE 2). Note: The fender liners will not be re-installed.



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INSTALLATION INSTRUCTIONS

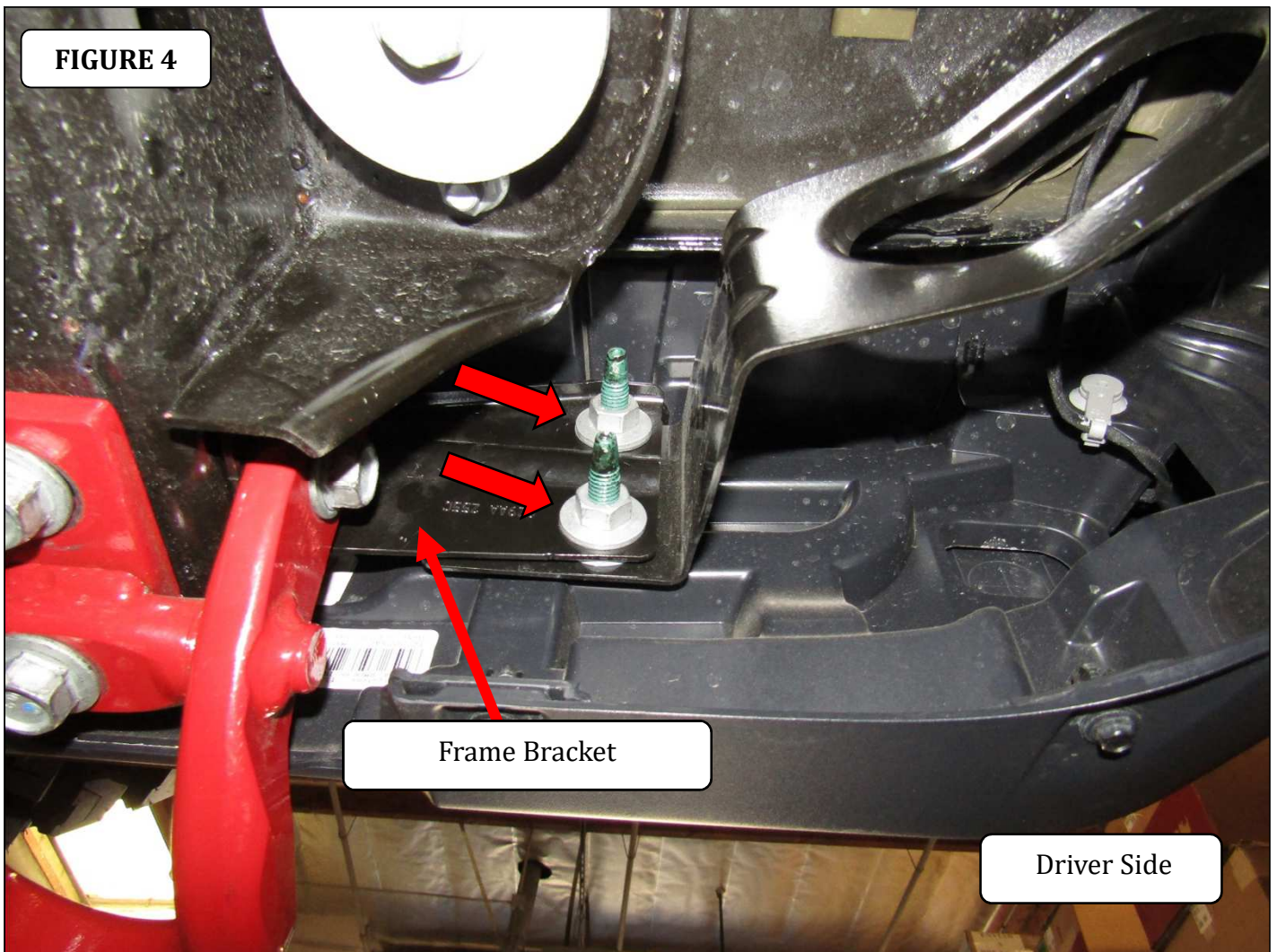
Step-5 On each side of the vehicle, use a M16 socket and remove the (2) bolts securing the bumper side support bracket to the frame and the (2) bolts securing the side support bracket to the bumper, (FIGURE 3).



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INSTALLATION INSTRUCTIONS

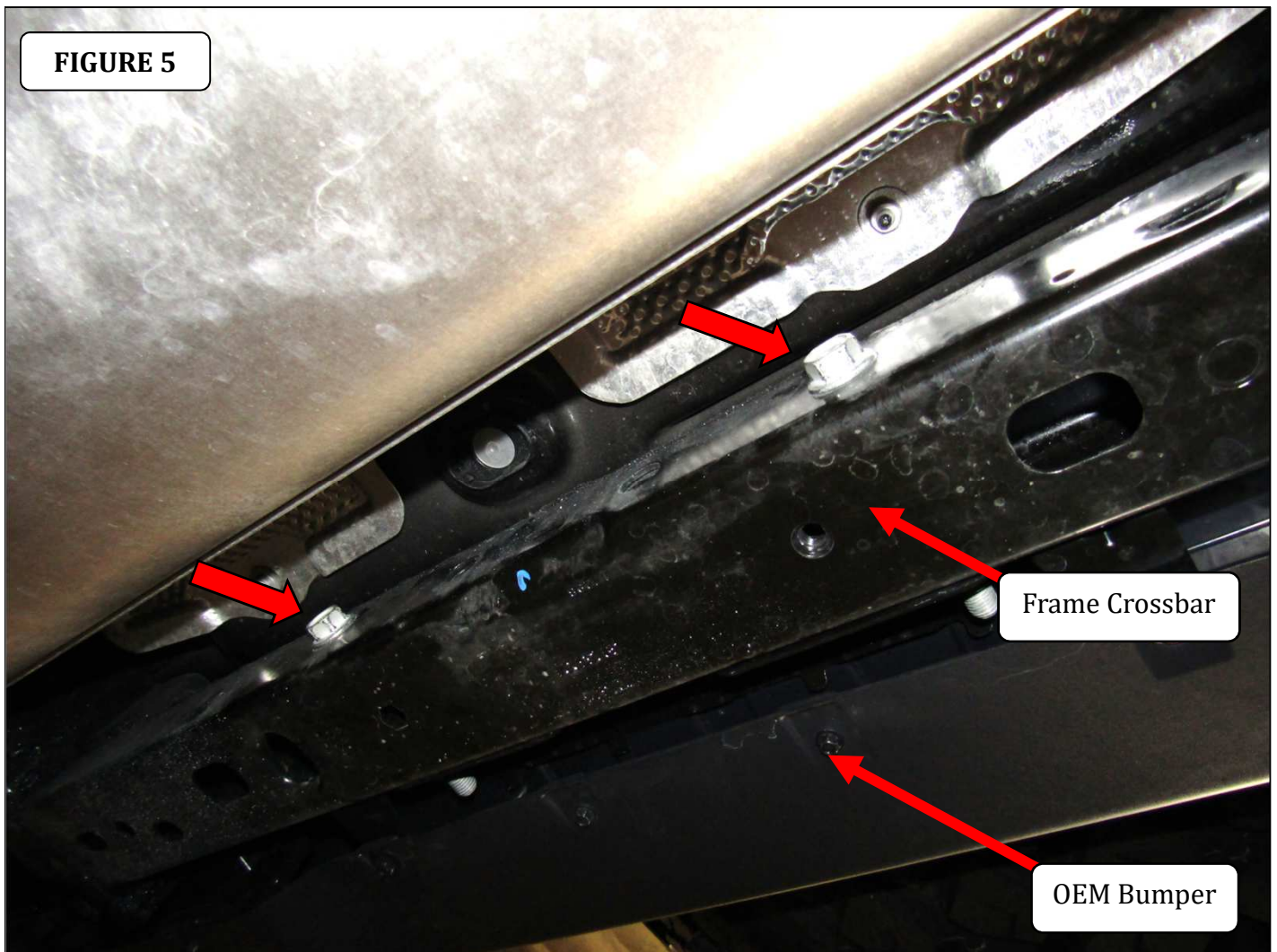
Step-6 On each side of the vehicle use a M16 socket and remove the (2) nuts from the studs securing the bumper to the frame bracket, (FIGURE 4).



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INSTALLATION INSTRUCTIONS

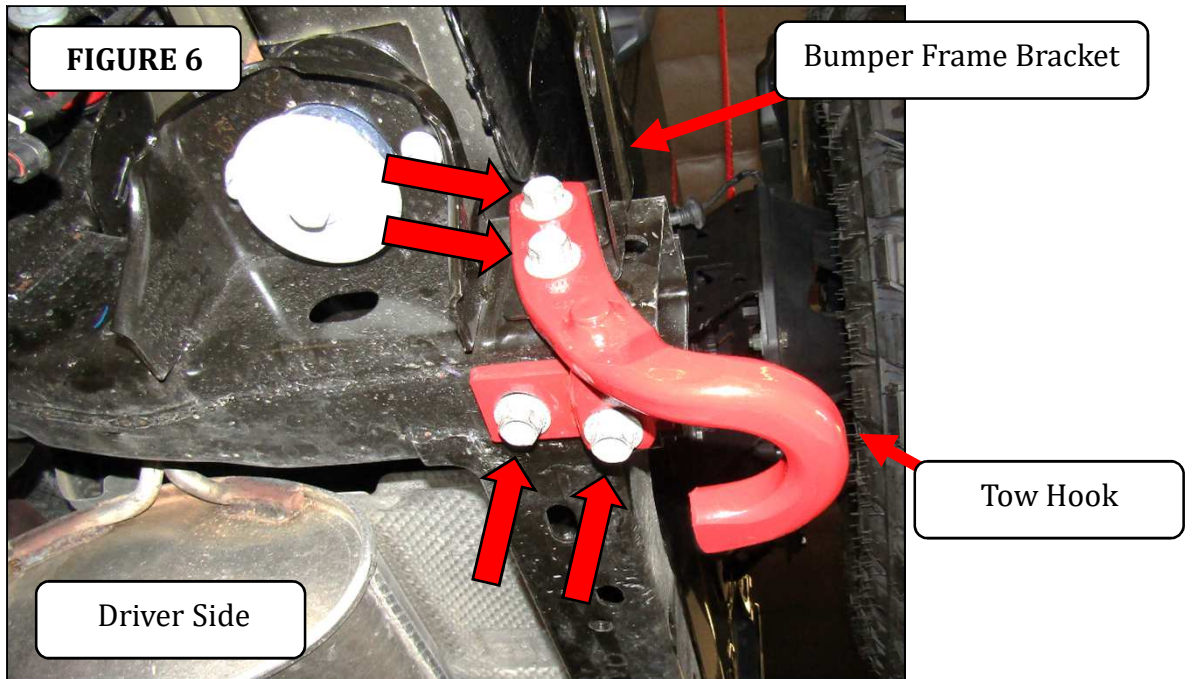
Step-7 Using a M18 socket remove the (2) bolts securing the OEM bumper to the frame crossbar, (FIGURE 5). With assistance remove the OEM bumper from the vehicle.



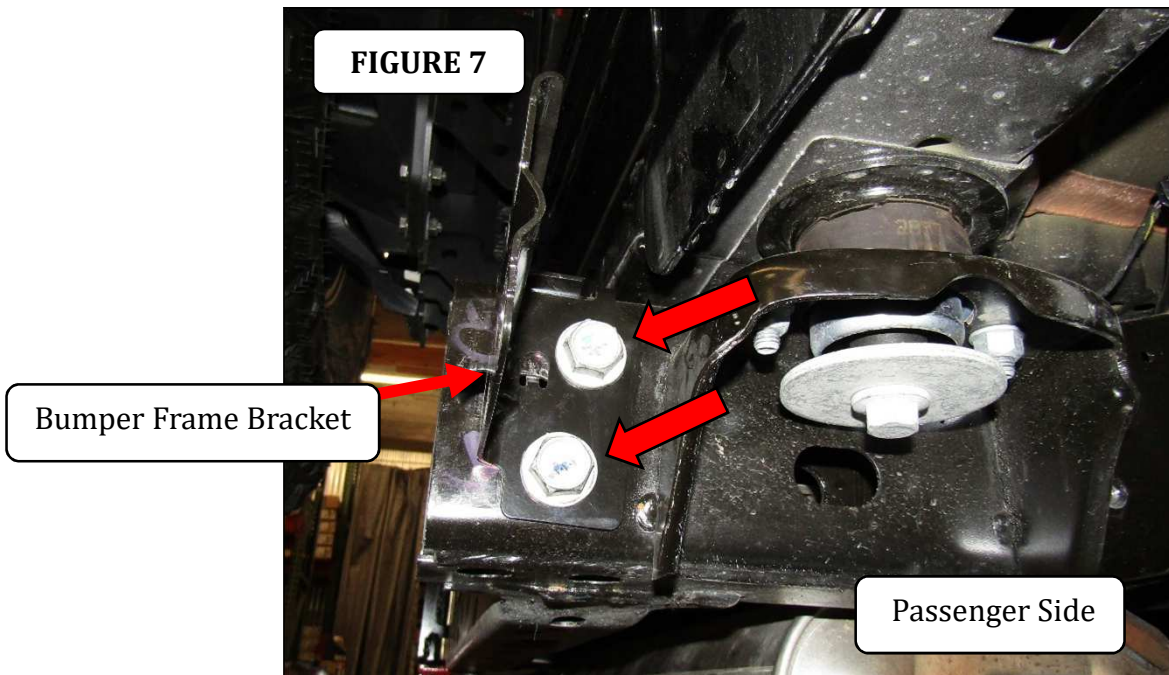
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INSTALLATION INSTRUCTIONS

Step-8 On the driver side of the vehicle use a M18 socket and remove the (4) bolts securing the tow hook and bumper frame bracket to the frame, (FIGURE 6). Retain the 4 bolts, the tow hook will not be re-installed.



Step-9 On the passenger side of the vehicle use a M21 socket and remove the (2) bolts securing the bumper bracket to the frame, (FIGURE 7). Retain the 2 bolts.



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INSTALLATION INSTRUCTIONS

Trailline Bumper Installation

Step-1 If equipped with park sensors remove the wiring harness, sensors, mounting rings and bezels from the OEM bumper. **Note:** The sensors, mounting rings and bezels have to be positioned in the Rockline rear bumper in the same location (inner and outer), (driver and passenger) as removed from the OEM bumper.

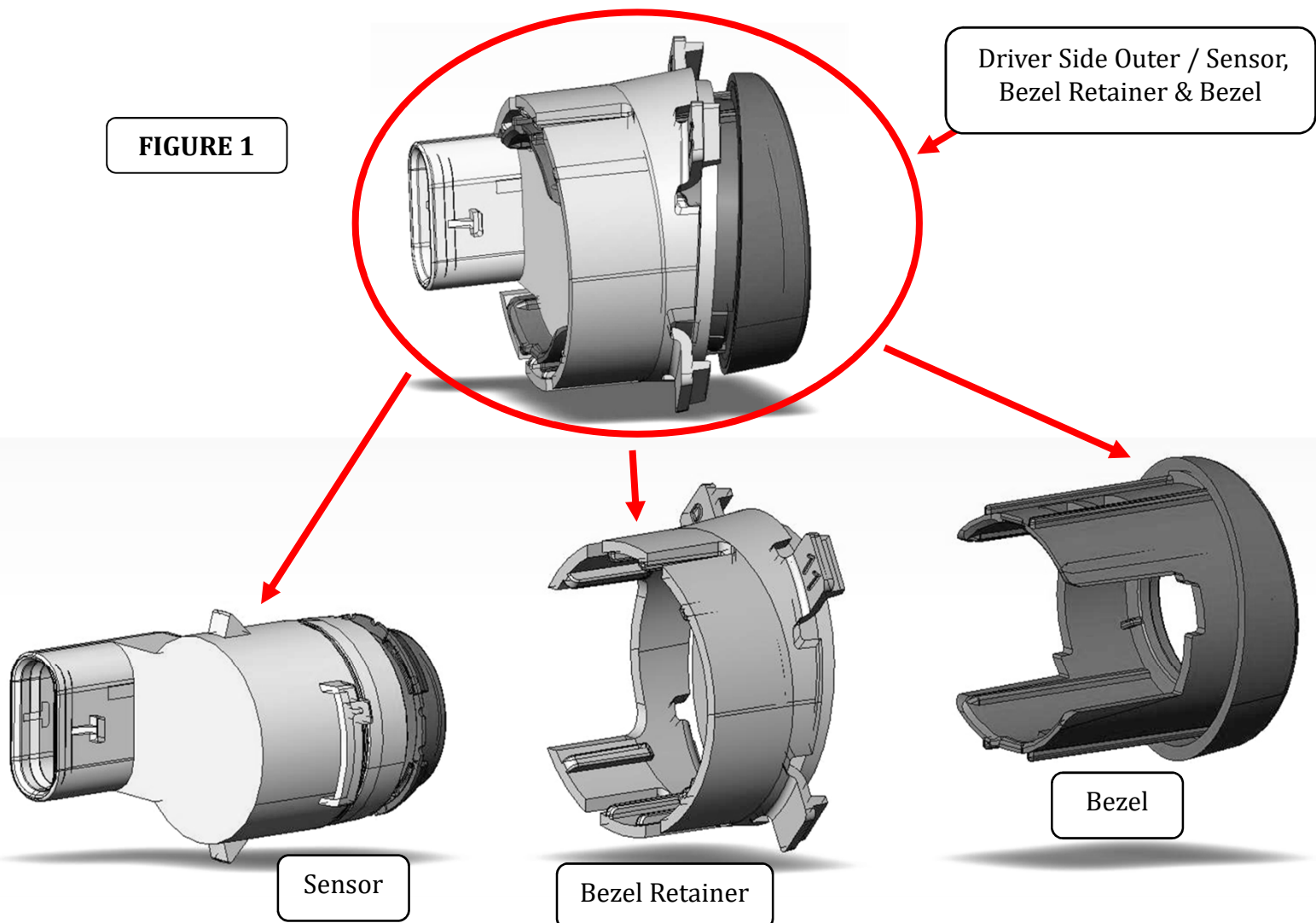
1a Unplug the sensors from the wiring harness and remove the wiring harness from the OEM bumper.

1b Remove the sensor by spreading the tabs on the bezel and releasing the sensor out the back side of the bumper.

1c Spread the tabs on the bezel retainer to release it from the bezel.

1d Press the tabs in on the bezel to push it out the front side of the bumper.

FIGURE 1



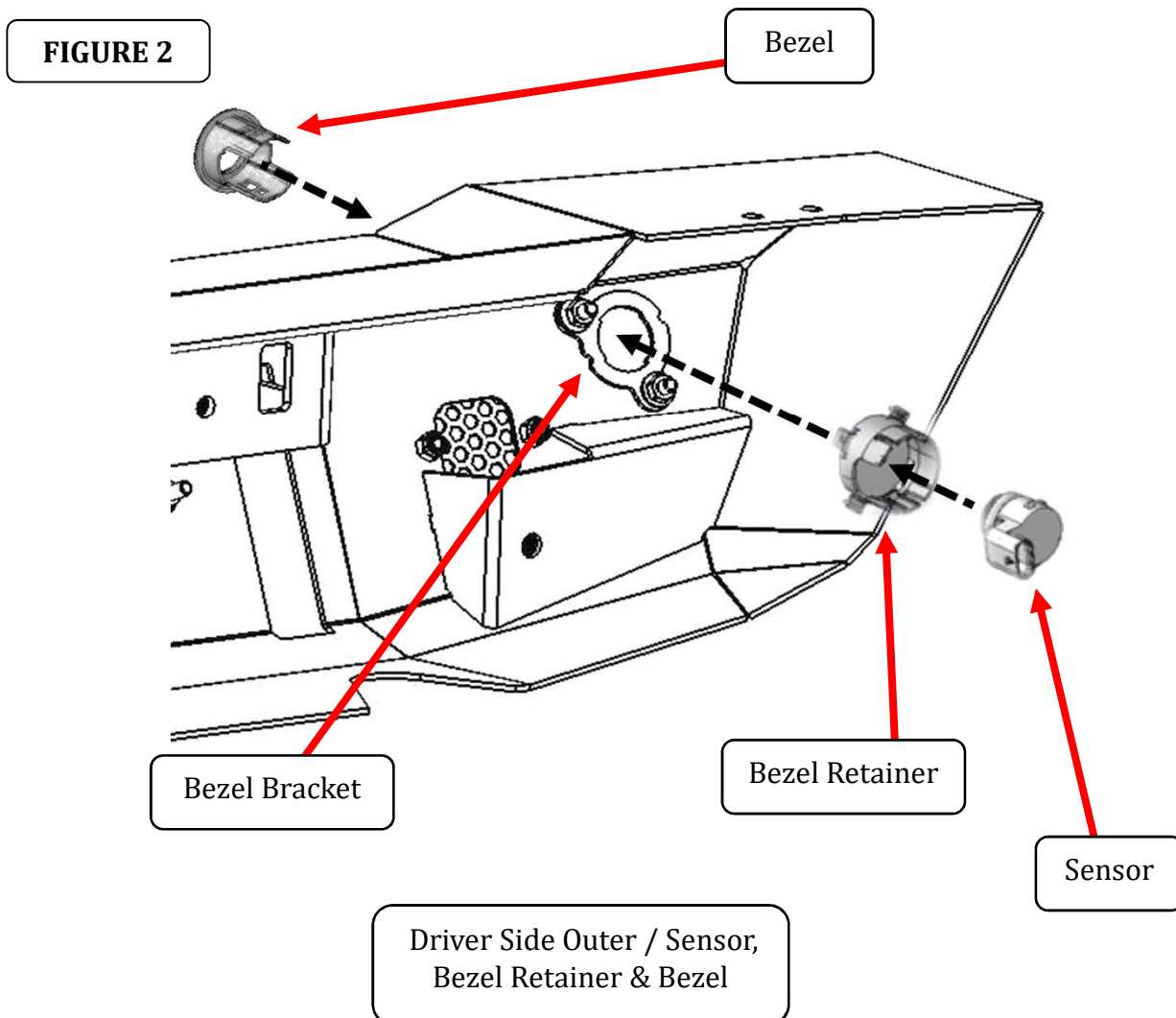
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INSTALLATION INSTRUCTIONS

1e Remove the (4) plastic plugs from the bezel brackets that are preinstalled in the Rockline rear bumper;

1f Install the OEM parking sensors in the Rockline rear bumper by pressing each bezel in from the front of the bumper into place in the bezel bracket, then press the bezel retainer onto the bezel from the backside. Next press the sensor into the bezel from the back side.

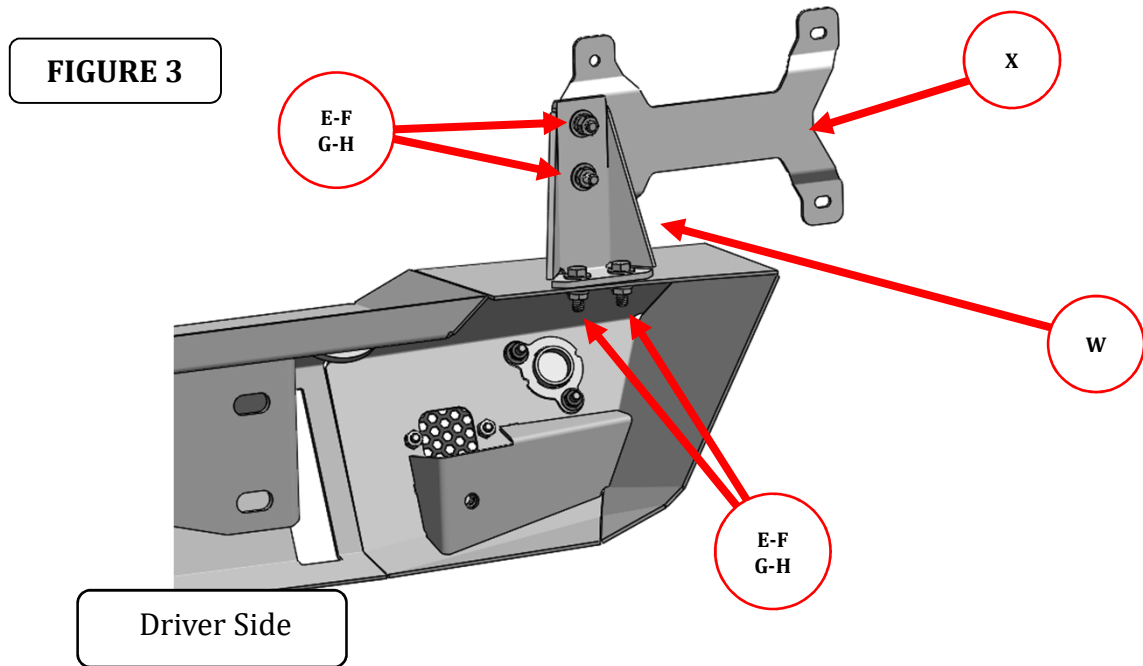
1g Transfer the OEM bumper wiring harness to the Rockline rear bumper and connect to the parking sensors.



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INSTALLATION INSTRUCTIONS

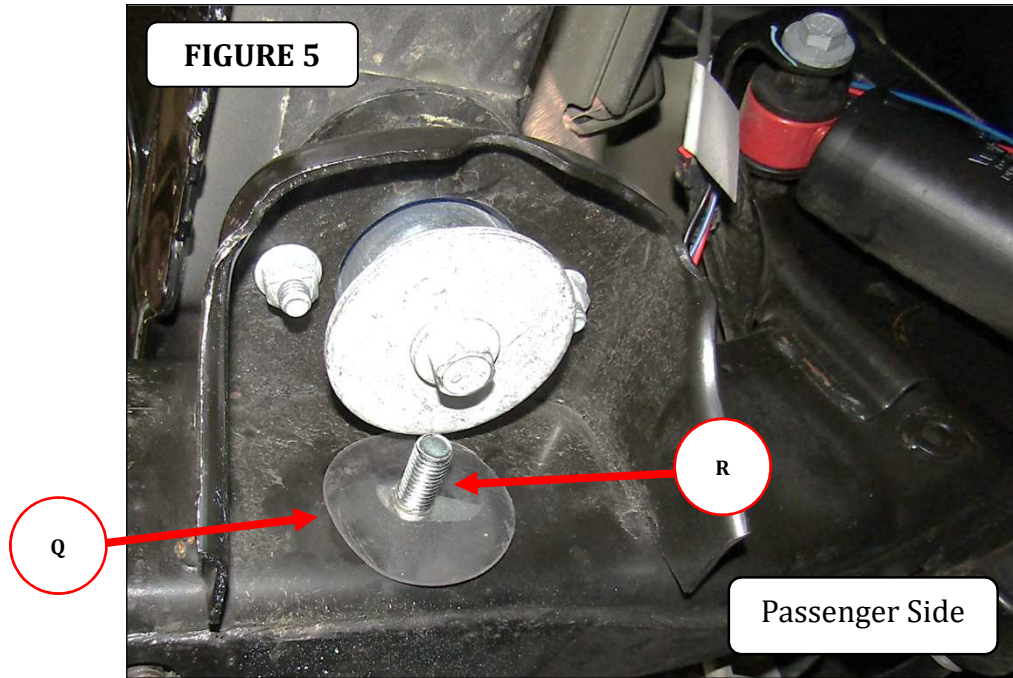
Step-2 Attach the license plate base bracket to the holes in the top, on the driver side of the Trailline bumper using (2) 5/16" x 1" hex bolts, (4) 5/16" flat washers, (2) 5/16" lock washers and (2) 5/16" hex nuts, then attach the license plate bracket to the base bracket using (2) 5/16" x 1" hex bolts, (4) 5/16" flat washers, (2) 5/16" lock washers and (2) 5/16" hex nuts, (FIGURE 3). Tighten the nuts and bolts.



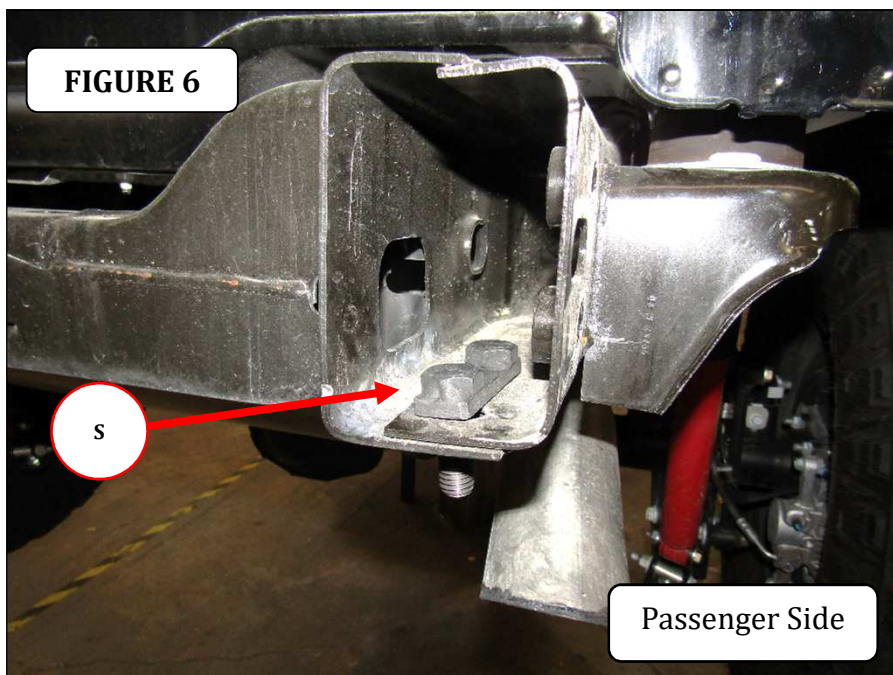
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INSTALLATION INSTRUCTIONS

Step-3 Locate the large obround hole in the passenger side of the frame next to the body mount, and install (1) 1/2" T-Bolt in the frame and install (1) vinyl gasket over the threads to prevent the T-Bolt from falling into the frame, (FIGURE 5). Repeat for the driver side.



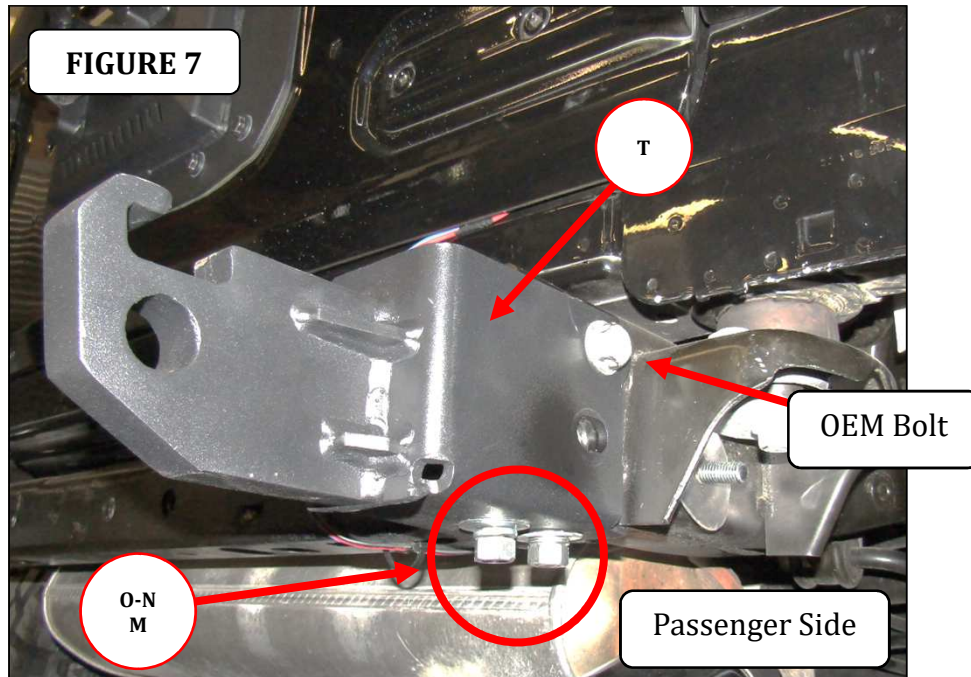
Step-4 Position the 1/2" double bolt plate inside the passenger side frame rail, so the (2) bolts extend down through the (2) holes in the bottom of the frame rail, (FIGURE 6).



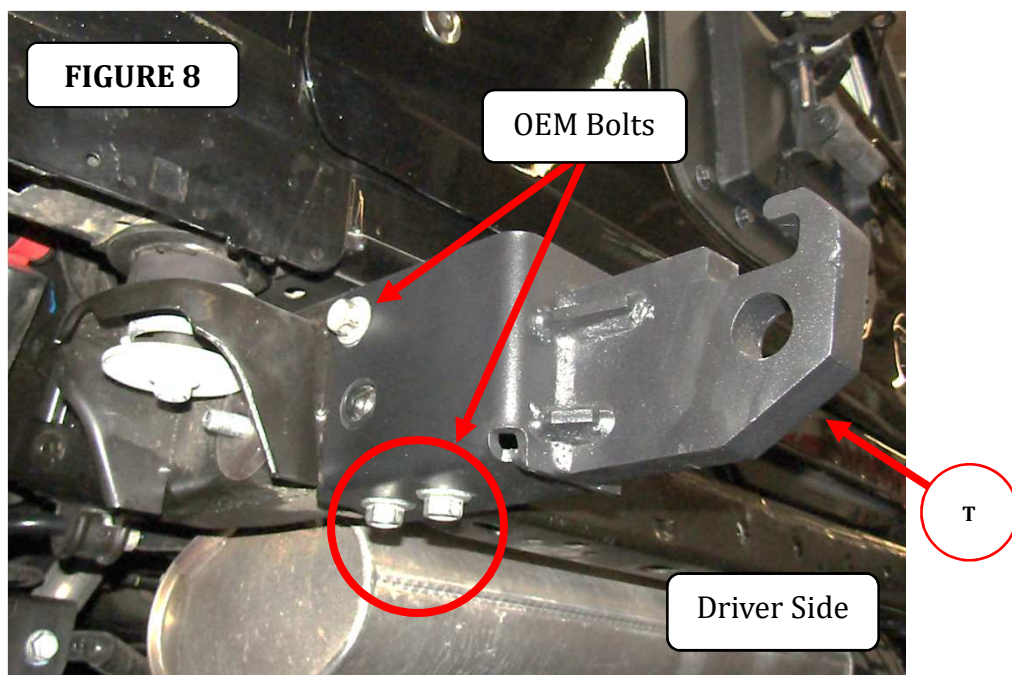
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INSTALLATION INSTRUCTIONS

Step-5 Attach the passenger side frame bracket to the side of the frame using (1) OEM bolt used for attachment of the OEM bumper frame bracket, and to the bottom of the frame using the ½" double bolt plate, (2) ½" flat washers, (2) ½" lock washers and (2) ½" hex nuts, (FIGURE 7).



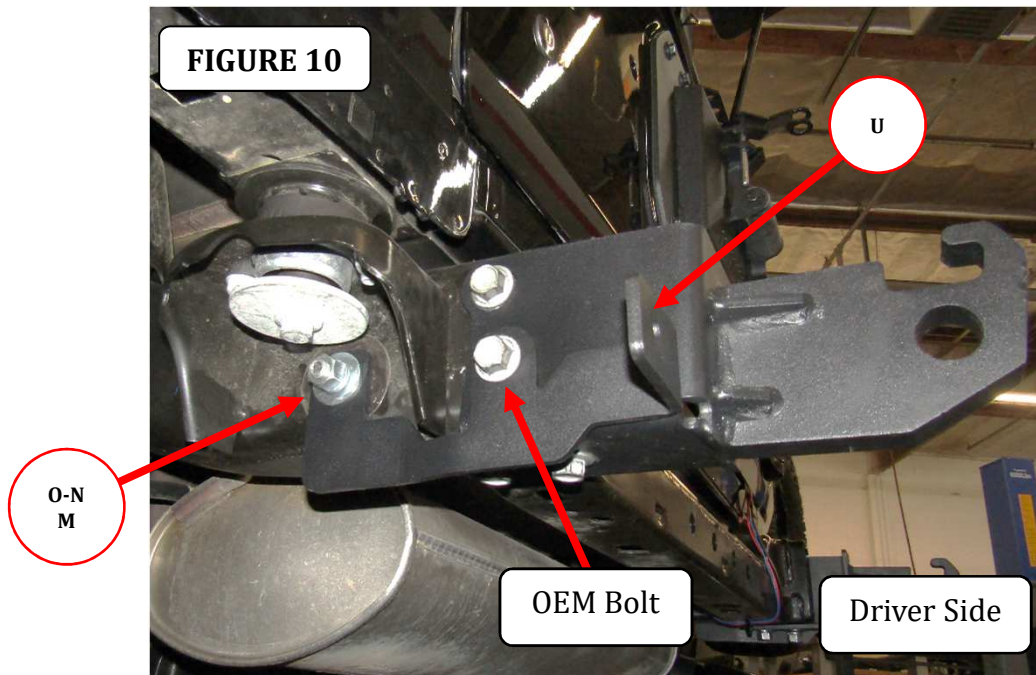
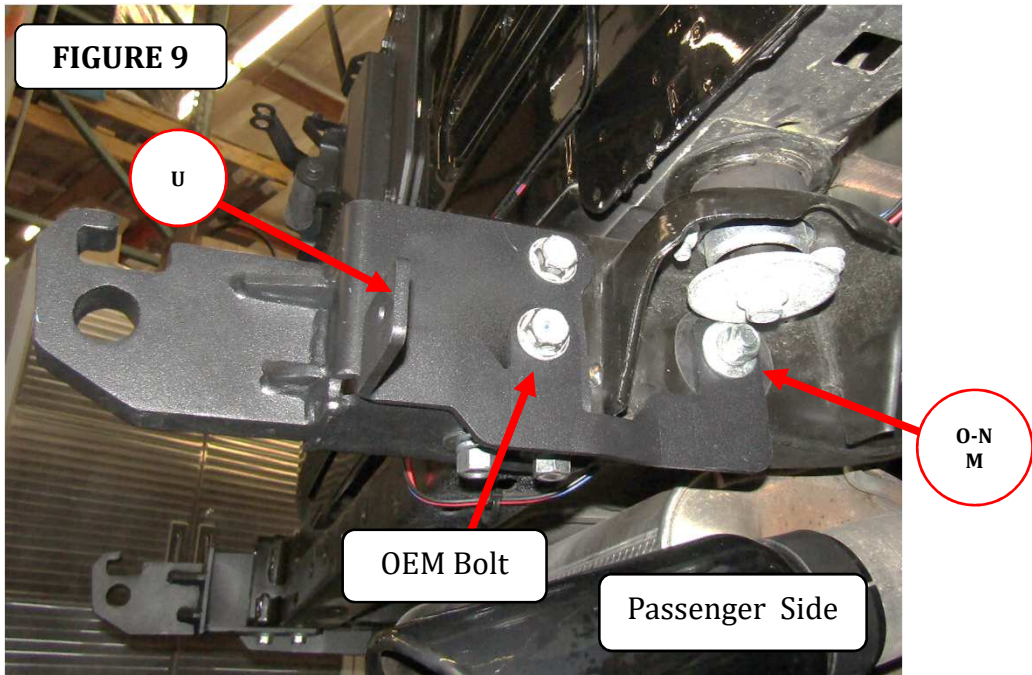
Step-6 Position the driver side frame bracket on the bottom and outside of the vehicle frame, and attach the bracket to the side of the frame using (1) OEM bolt, and to the bottom of the frame using the (2) OEM bolts used for attachment of the OEM tow hook and bumper frame bracket, (FIGURE 8).



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INSTALLATION INSTRUCTIONS

Step-7 Position the hole in the end of the passenger side corner bracket over the ½" T-Bolt. Align the hole in the center of the corner bracket with the hole in the frame bracket and the weld nut inside the frame. Secure the corner bracket and frame bracket to the frame using (1) OEM bolt and to the side of the frame using the ½" T-Bolt, (1) ½" flat washer (1) ½" lock washer and (1) ½" hex nut, (FIGURE 9). Leave the bolt and nut loose for final adjustment. Repeat for the driver side, (FIGURE 10).



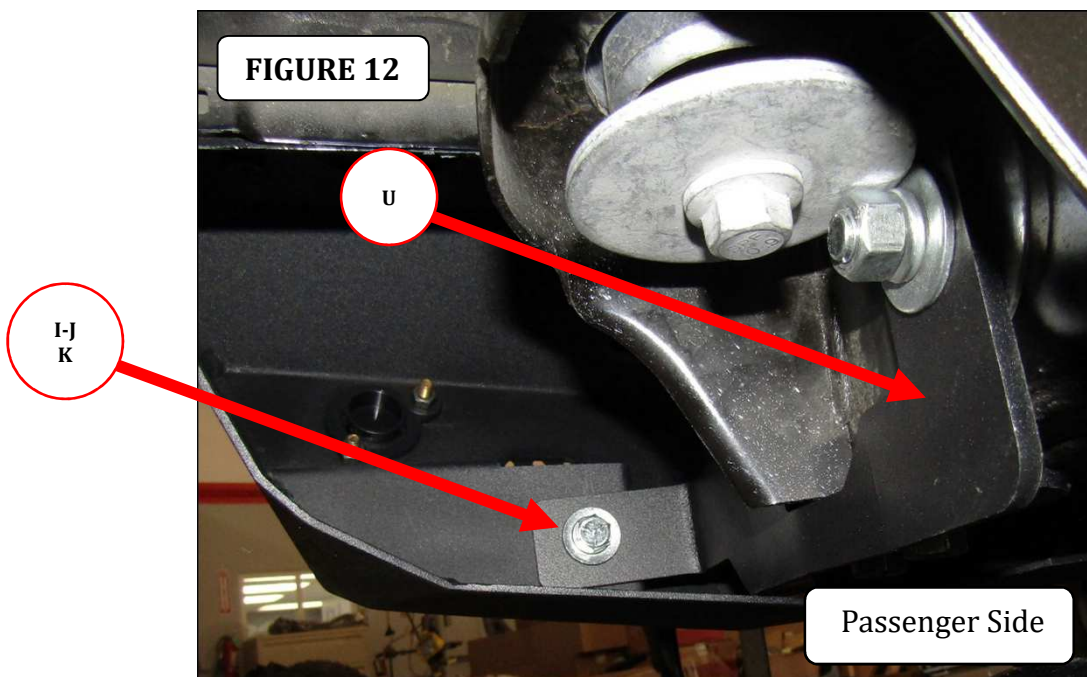
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INSTALLATION INSTRUCTIONS

Step-8 With assistance lift the Trailline bumper up to the vehicle, and position the bumper so the driver and passenger side frame bracket D-Shackle mounts protrude out through the rectangular openings in the Trailline bumper, (FIGURE 11).



Step-9 Secure the corner bracket to the weld nuts in the Trailline bumper using (1) 3/8" x 1 1/4" hex bolt, (1) 3/8" lock washer and (1) 3/8" flat washer, (FIGURE 12). Leave the bolt loose for final adjustment. Repeat for the driver side.

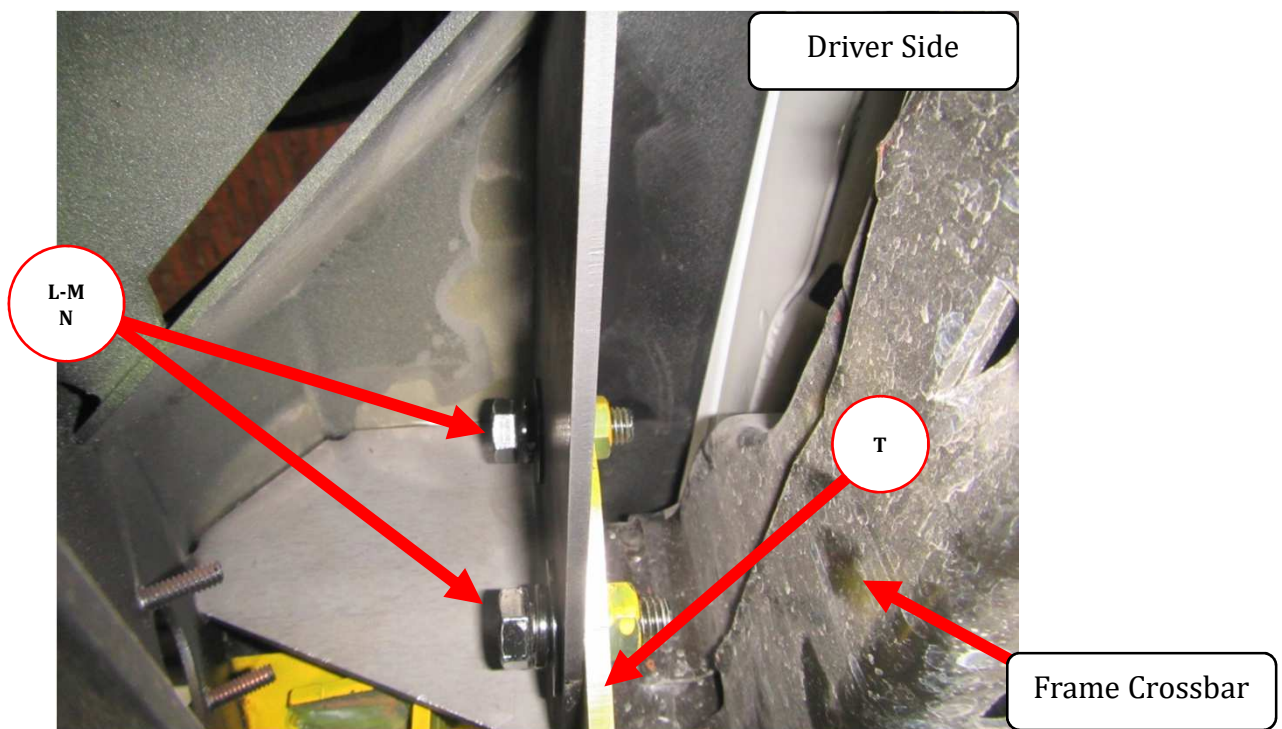


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INSTALLATION INSTRUCTIONS

Step-10 Align the holes in each bumper center bracket with the holes in the frame bracket, and attach the Trailline rear bumper to the frame bracket using (2) 1/2" x 1 1/2" hex bolt, (2) 1/2" lock washer, (2) 1/2" flat washers, (FIGURE 13). Leave the bolt loose for final adjustment.

FIGURE 13



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INSTALLATION INSTRUCTIONS

Step-11 Align the Trailline rear bumper with the vehicle, then tighten all nuts and bolts.



Step-12 Attach the license plate to the license plate bracket using the supplied $\frac{1}{4}$ " x $\frac{3}{4}$ " button head hex drive bolts, $\frac{1}{4}$ " flat washers, $\frac{1}{4}$ " lock washers and $\frac{1}{4}$ " hex nuts.

Remember to check and retighten all nuts and bolts periodically.