



TORKLIFT

I N T E R N A T I O N A L

OVER 35 YEARS OF INNOVATION, QUALITY, SAFETY.



TRUE FRAME MOUNTED CAMPER TIE DOWNS

IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS

C2213 / C2220

Minor movement (or settling) can occur in some incidental harsh driving conditions (On or off road). A rubber bed mat is not a requirement to maintain the lifetime warranty on a Torklift system, but a strong recommendation, simply as a safety precaution to protect the truck bed, the bottom of the camper and to give the camper additional support.

Warning!!

TORKLIFT DOES NOT RECOMMEND: Installing your truck camper in your truck on top of a drop in plastic bed liner!!! **THIS WILL VOID YOUR WARRANTY!**

The drop in plastic bed liners can slide on top of the truck bed surface, and the camper can slide on top of the slick surface of the bed liner. The liner can also act as a spring causing a trampoline effect increasing vertical truck camper movement, independent of the vehicle, possibly resulting in truck bed damage and/or camper damage!

C2213/C2220 PARTS INVENTORY

- 2- 1-1/2" X 3/16" X 17-7/8" BENT INSERT
- 1- 1/2" BOLT FISHER
- 2- [TIE DOWN FRAME PLATE](#)
- 2- SPRING PERCH PLATE
- 6- 1/2" -13 GR5 HEX NUT
- 6- 1/2" GR5 LOCK WASHER
- 2- 1/4" 2-5/8" INSERT SNAPPER PIN
- 6- 1/2" GR5 FLAT WASHER
- 2- 1/4" X 1" X 2" PLATE WASHER
- 2- 1/2" GR5 STAR WASHER
- 2- 1/2" -13 X 1-1/2" GR5 HEX BOLT
- 2- 1/2" -13 X 2" GR5 HEX BOLT
- 2- 1/2" -13 X 1-1/2" SQUARE BOLT

INSTALLATION INSTRUCTIONS:

Locate and inventory all parts to become familiar with all brackets. Read and understand all instructions. Make sure the vehicle is in park, on a level surface and wheels are chocked before starting the installation.

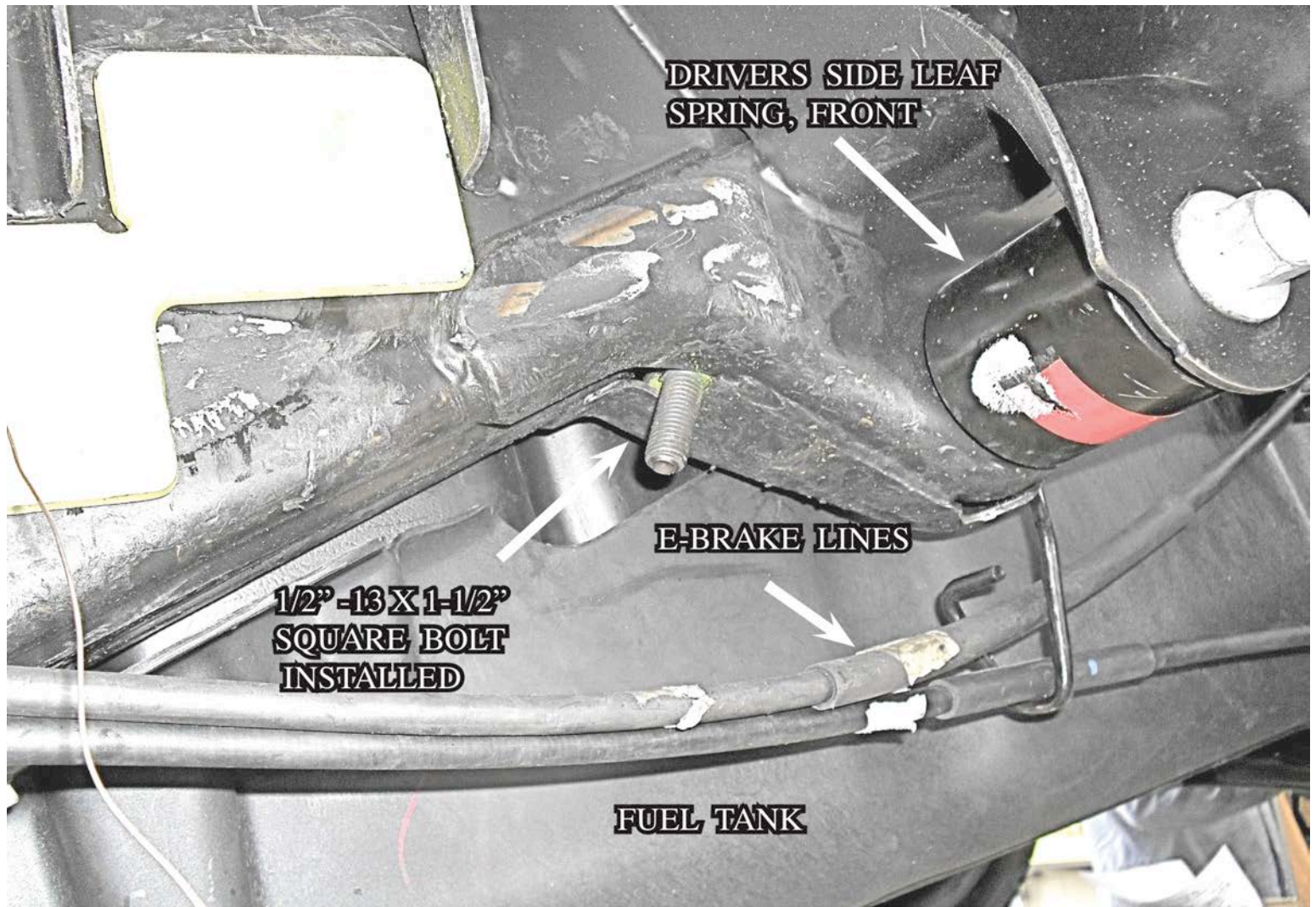
STEP 1

Locate the driver's side rear axle front spring perch. Insert the 1/2" bolt fisher coiled end through the small hole on the underside of the spring perch and out the side. Place one 1/2" -13 x 1-1/2" square bolt onto the bolt fisher and string it through. **See photo 1.1 & 1.2 (Bolt fishing guide on Page 11)**

PHOTO 1.1



PHOTO 1.2



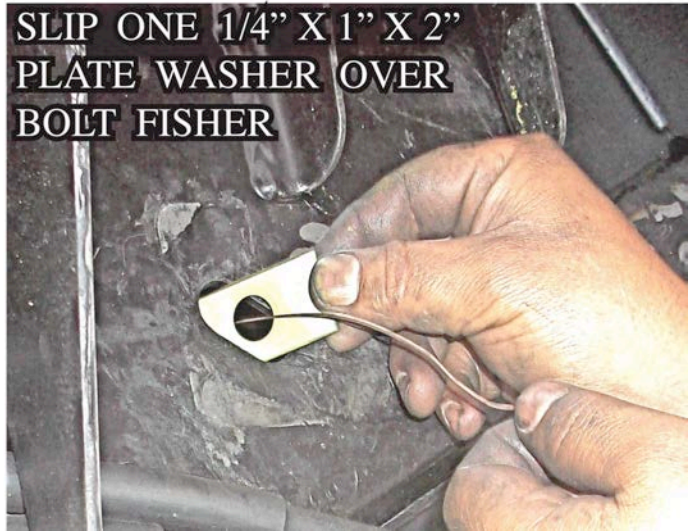
STEP 2

Locate the driver's side cab and spring mount. Locate the oval hole between the two mounts and the circular hole just to the front of the cab mount. Insert the 1/2" bolt fisher's coiled end first through the oval hole and out the circular hole. Connect the 1/2" -13 x 2" GR5 hex bolt to the bolt fisher and string it back through. Once through insert one 1/2" GR5 star washer, and one 1/4" x 1" x 2" plate washer through the open end of the bolt fisher and place individually through the oval hole and pull back through. **SEE PHOTO 2.1 & 2.2**

PHOTO 2.1



PHOTO 2.2



STEP 3

Locate the driver's side front bed cross member perch. Remove the factory bolt from the perch and bed cross member (keep the factory bolt handy). **SEE PHOTO 3.1**

PHOTO 3.1



STEP 4

Locate the driver's side tie down and insert the bolt fisher end through the left hole in the tie down. Place the tie down against the frame and placing the upper support strap on the tie down up into the bed cross member perch. Replace the factory bed cross member bolt and hand tighten. Remove the bolt fisher from the 1/2" -13 x 2" GR5 hex bolt and install one 1/2" GR5 flat washer, one 1/2" GR5 lock washer and one 1/2" -13 GR5 hex nut. **SEE PHOTO 4.1 & 4.2**

PHOTO 4.1

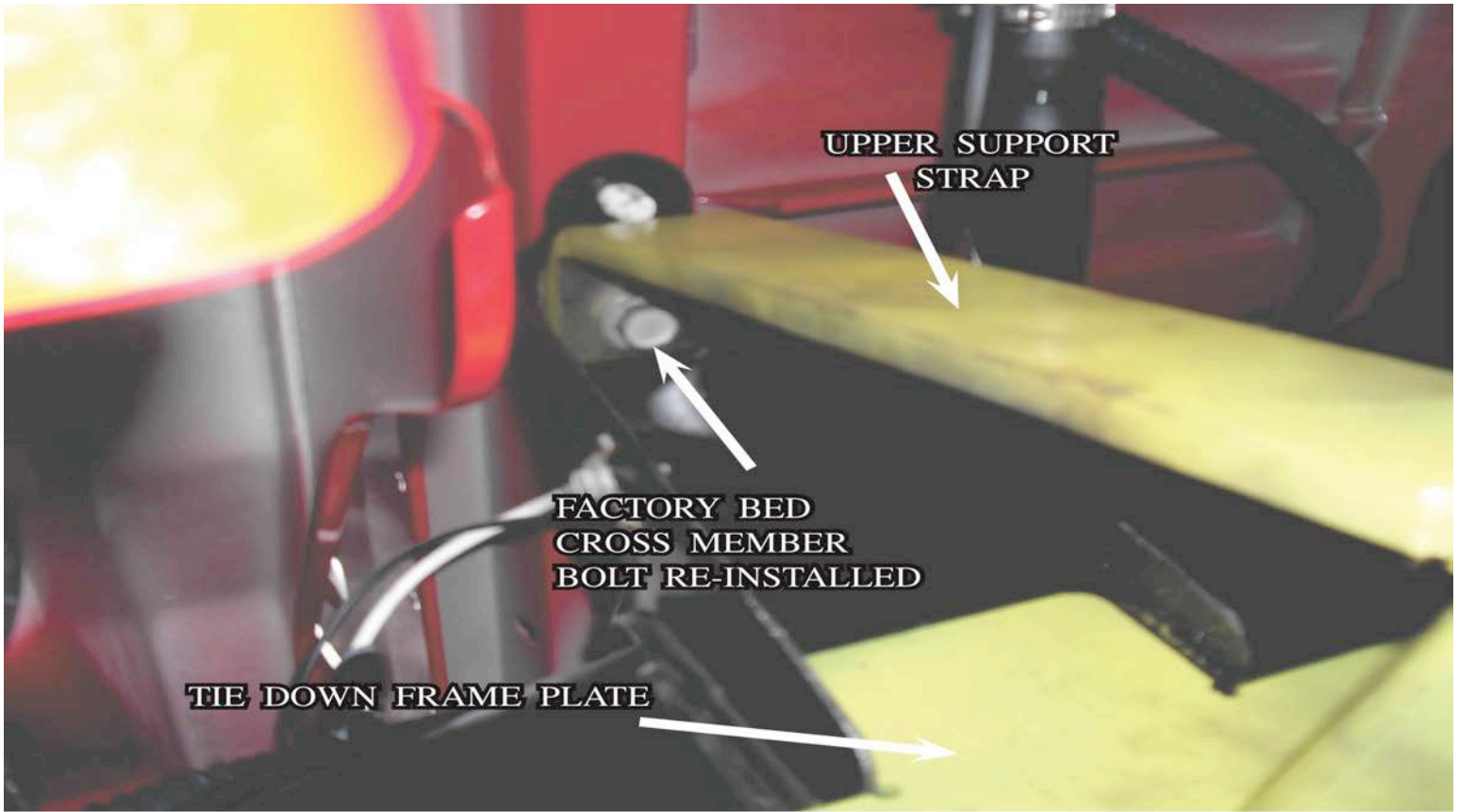
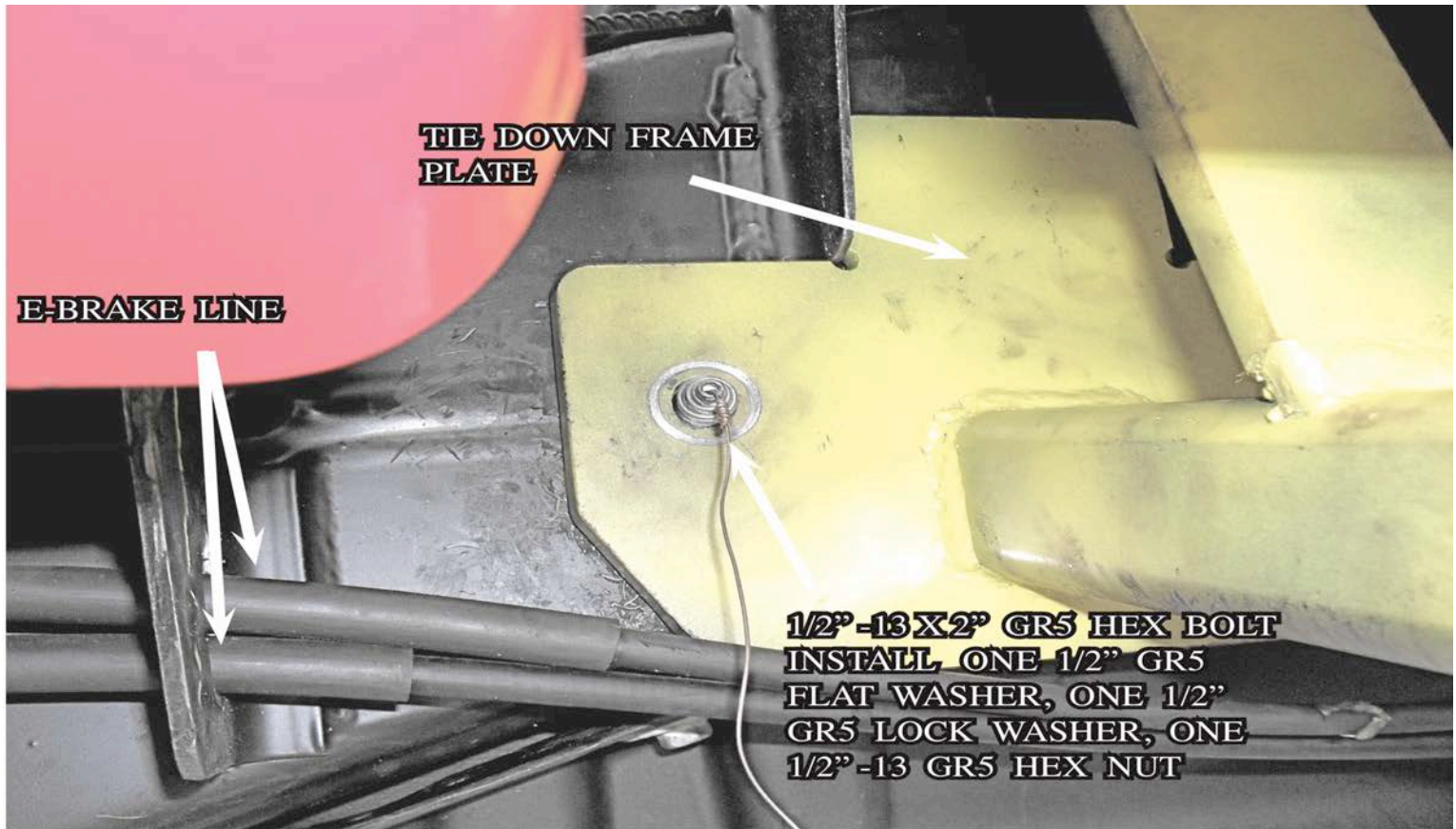


PHOTO 4.2



STEP 5

Locate the supplied spring perch plate and install underneath the spring perch. Threading the previously installed 1/2" -13 x 1-1/2" square bolt through the offset hole on the spring perch plate. Install and hand tighten one 1/2" GR5 flat washer, one 1/2" GR5 lock washer and one 1/2" -13 GR5 hex nut. Line up the second hole that is centered on the spring perch plate and install one 1/2" -13 x 1-1/2" GR5 hex bolt from the backside of the spring perch plate and through the tie down. Install and hand tighten one 1/2" GR5 flat washer, one 1/2" GR5 lock washer and one 1/2" -13 GR5 hex nut. **SEE PHOTO 5.1 & 5.2**

PHOTO 5.1

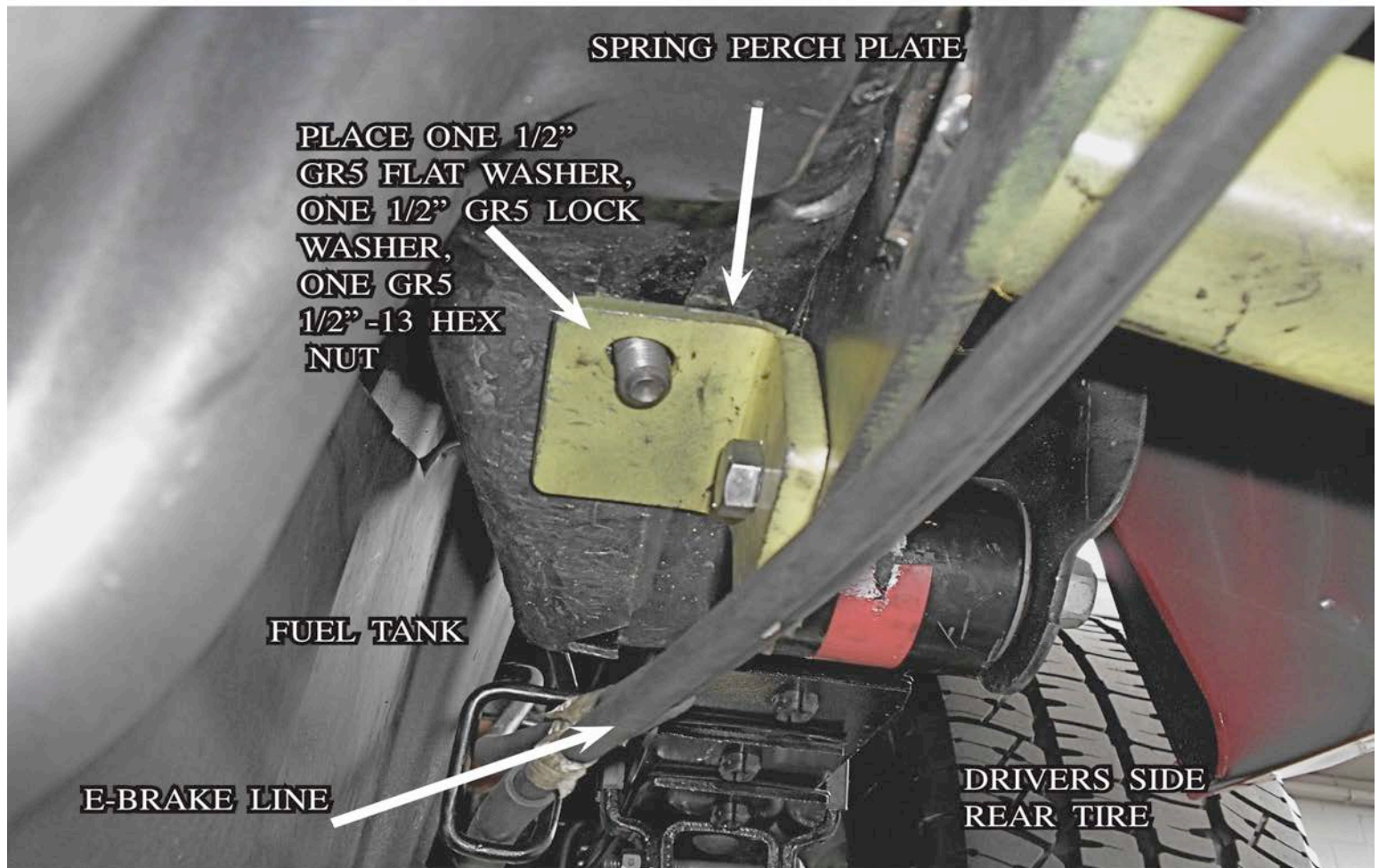
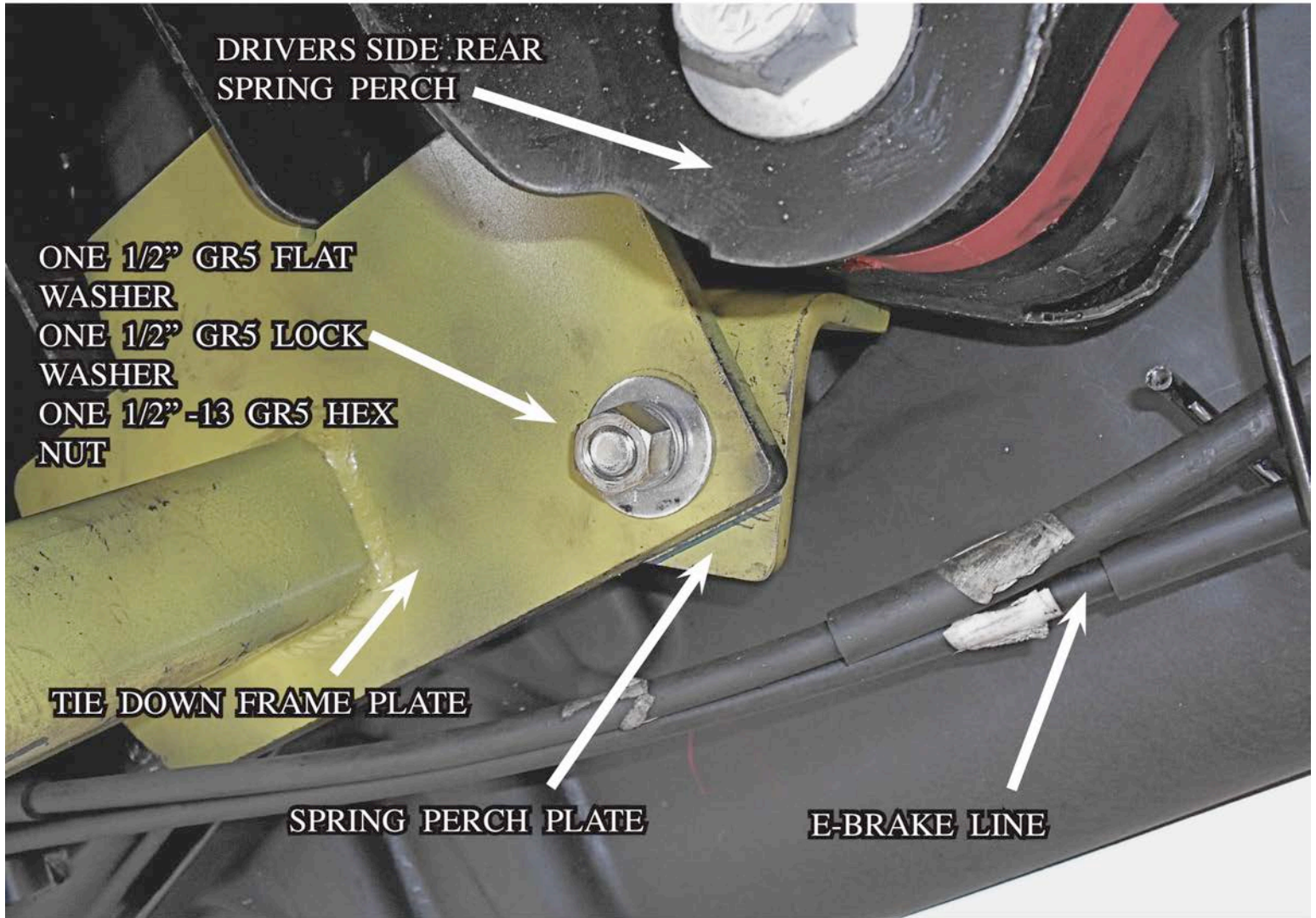


PHOTO 5.2



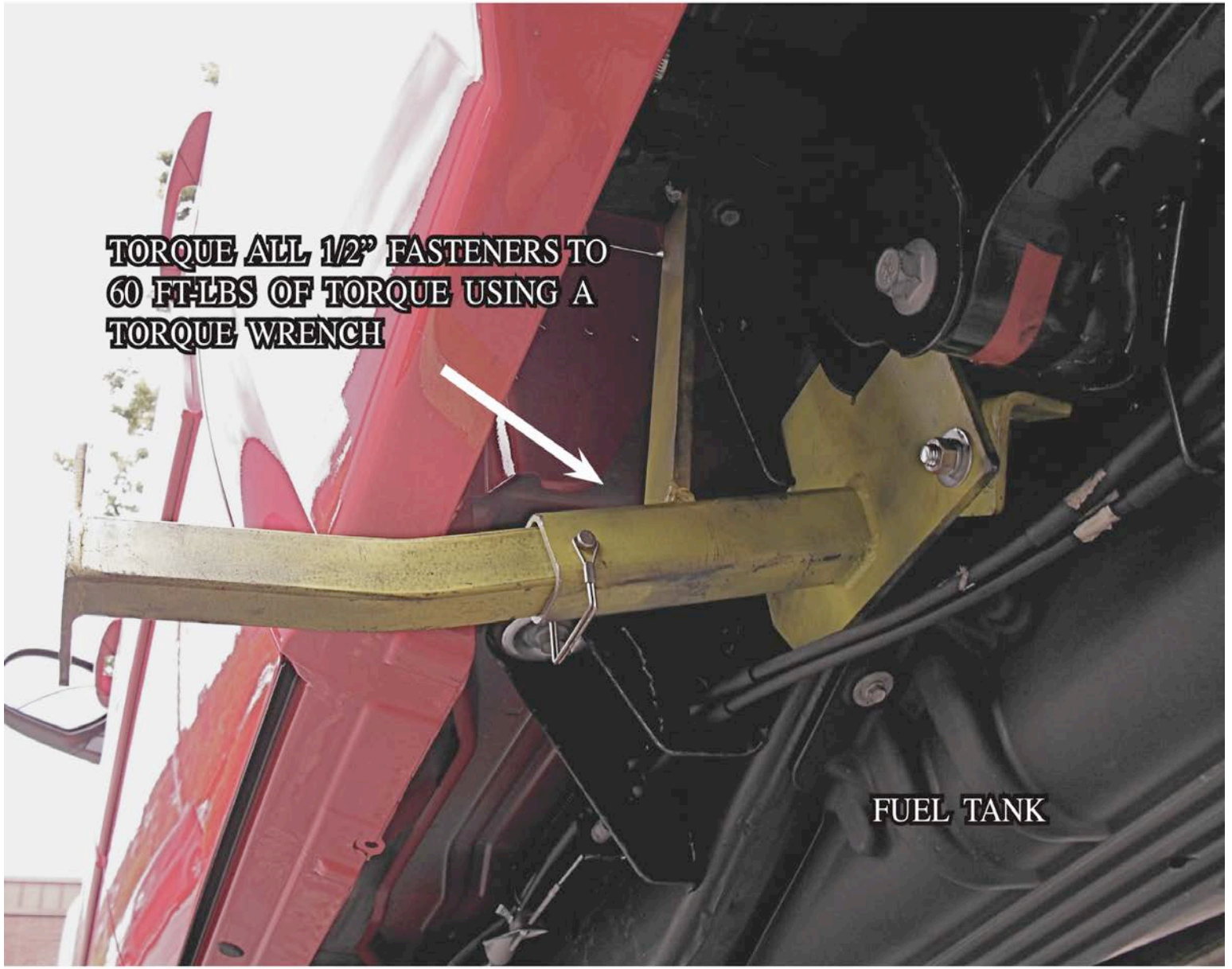
STEP 6

Repeat previous steps on passenger side.

STEP 7

Tighten all fasteners to 60 ft-lbs. with a torque wrench. **SEE PHOTO 7.1**

PHOTO 7.1



INSTRUCTIONS FOR MAINTENANCE OF POLISHED STAINLESS STEEL PRODUCTS



Torklift utilizes quality grade 304 stainless steel in this product.

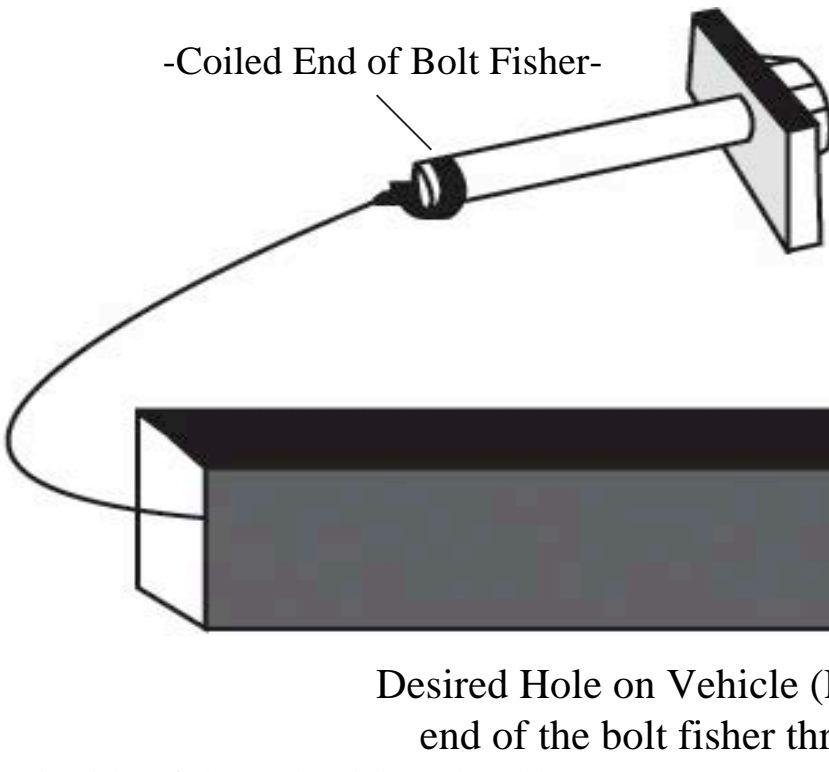
304 stainless steel is well known for its anti corrosive properties, however in some environments such as coastal regions or when in contact with some road chemicals, corrosion may occur.

We recommend occasional polishing of our product to maintain its attractive finish. Use an approved stainless steel cleaning/polishing product, which can be purchased from any automotive supplier.

TORKLIFT'S BOLT FISHING GUIDE

Your guide to understanding the installation of our frame mounted tie downs.

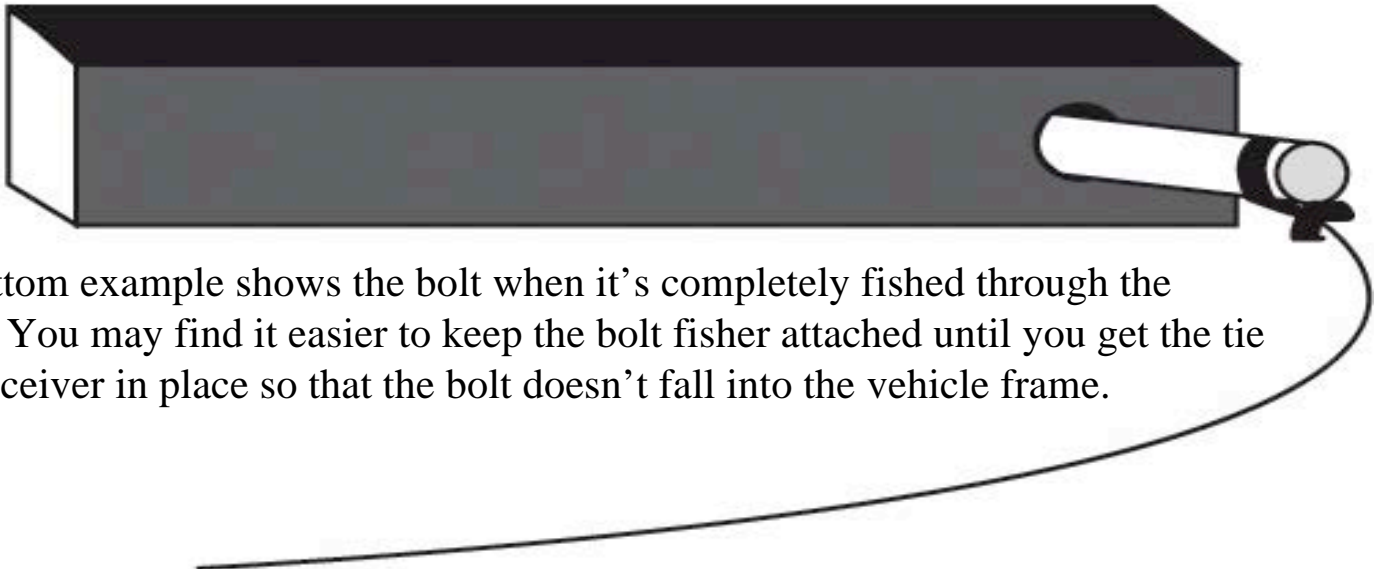
-Coiled End of Bolt Fisher-



Note: The hardware may vary as to what is being fished along with the bolt. In this instance a 1" X 2" plate washer is being fished along with the hex bolt. Different applications may require fishing through various star washers and flat washers for example.

Desired Hole on Vehicle (Place the coiled end of the bolt fisher through this hole).

This side of the Bolt Fisher should come out of a hole where the required hardware (for example 1" X 2" plate washer) can pass through.



This bottom example shows the bolt when it's completely fished through the vehicle. You may find it easier to keep the bolt fisher attached until you get the tie down receiver in place so that the bolt doesn't fall into the vehicle frame.

WARNING: PULLING TOO HARD ON THE BOLT FISHER CAN RESULT IN LOST FASTENERS, OR BROKEN BOLT FISHER.

TIEDOWN INSERT INSTALLATION INSTRUCTIONS

On one end of each of your tie down inserts is a triangular plate referred to by Torklift as a bullet plate. Your tie down inserts should be installed with the shorter side of the bullet plate facing away from each other, i.e.. The shorter side of the front insert should point to the front of the truck and the shorter side of the rear insert should point towards the rear of the truck.

Once installed, attach the TorkLift directional stickers to the face of the bullet plate on the insert as a reminder.

DRIVERS SIDE FRONT

DRIVERS SIDE REAR



SHORTER SIDE

RECOMMENDED TRUCK CAMPER

INSTALLATION INSTRUCTIONS

When securing any heavy load (especially a camper) in your truck bed, your front tie down points should pull the load forward as much as possible. Some camper anchor points may differ with different manufacturers, as well as the camper jack mounting locations. Your Torklift tie down inserts has offset triangular brackets to increase the angle of pull. These are designed to be used in the front facing forward, and the rear facing rearward but can be used in either front or rear. These recommendations are to be considered and followed as a basic rule of thumb. Obviously there will be some applications where this may not be possible. At a minimum, if opposite pull of both front and rear tie downs cannot be achieved for whatever reason, you should have at least a forward pull at the front or rear location.

If your camper does not come with Rubber Bumpers on the front lower portion of the camper, installing Rubber Bumpers (Torklift has Rubber Bumpers available Part A7001) or using a block of wood such as a 2 x 4 in the bed, will prevent the camper from damaging the front bulk head of the truck bed.

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INSTRUCTIONS FOR FINISH MAINTENANCE

OF TORKLIFT PRODUCTS

POWDER COATED STEEL:

To keep your Torklift products looking good follow these guidelines. All steel powder coated Torklift products are sandblasted for maximum adhesion and use a high quality industrial urethane based powder coat. Due to the extreme, harsh, undercar environment that your Torklift products live in, (consistently sprayed with corrosive road chemicals such as salt, and road debris), Torklift does not warranty the power coated finish.

To minimize corrosion from these factors on powder coated steel products, Torklift recommends regularly cleaning and inspecting the powder-coated surface and touching up any affected areas with enamel or urethane based aerosol paint product. If there are any areas of surface rust, there are also aerosol spray rust converters available on the market that can be used as a preparation to touch-up paint application. These finish maintenance products are available at any automotive parts supplier.

POLISHED STAINLESS STEEL:

Torklift utilizes quality grade 304 stainless steel in our stainless steel polished products. 304 stainless steel is well known for its anti-corrosive properties. However, in some environments such as coastal regions or when coming in contact with some road chemicals, corrosion may occur.

For a quick clean simply use WD40 and a cloth rag. We also recommend occasional polishing of our polished stainless products to maintain their attractive finish. Use an approved stainless steel chrome or aluminum mag wheel polish cleaning product, which can be purchased from any automotive parts supplier.