



OVER 35 YEARS OF INNOVATION, QUALITY, SAFETY.



IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS

D2110

Warnings

Truck Bed and Camper Protection

Torklift **does not** recommend installing your camper on top of a plastic bed liner (or other compressible material such as foam). These materials can act as a spring, causing increased vertical truck camper movement independent of the vehicle. Plastic bed liners can slide on the truck bed surface, and the truck camper can slide on top of the bed liner. Using a plastic bed liner or similar compressible material will void your warranty and may additionally cause truck bed and/or camper damage.

Minor movement or settling can occur in some incidental harsh driving conditions (on or off-road). A rubber bed mat is recommended to protect the truck bed and camper, but is not a requirement to maintain the Torklift legendary lifetime warranty.

Suspension

To significantly reduce body roll, sag and sway Torklift strongly recommends the StableLoad. Torklift International StableLoads improve safety, handling, and to help level your truck.

If your truck is additionally equipped with suspension air bags Torklift cautions against over pressurization as this may lead to unsafe vehicle handling characteristics. We have found that airbags used in conjunction with StableLoads have allowed operators to lower air bag pressure by 50% or more. Only pressurize suspension air bags enough to level the truck.

D2110 PARTS INVENTORY

2- TIE DOWN RECEIVERS	4- 1/2" NUTS
2- STRAIGHT TIE DOWN INSERTS	2- 1/4" PINS
8- 1/2" STAR WASHERS	4- 1/2" X 2"(5cm long) HEX BOLTS
12- 1/2" FLAT WASHERS	2- 1/2" BOLT FISHER
4- 1/2" LOCK WASHERS	2- M10 X 1.5 X 60 BED BOLT

INSTALLATION INSTRUCTIONS:

1. Locate and remove the factory bed bolt.
2. Place 2 star washers and a flat washer (**see page 4 for correct fastener assembly**) on to a 1/2" x 2"(5cm long) bolt. Sliding a long screwdriver gently between the backside of the frame and the fuel tank, gently pry the fuel tank away from the frame.
3. Fish the spring end of the bolt fisher into the top hole (**see photo A**) and out Between the frame and the fuel tank. Install the spring of the bolt fisher on to the threads of the bolt.
4. Slide the star washers and flat washer past the spring of the bolt fisher and up the wire **NOTE: This will allow the washers and bolt to fit easier between the fuel tank and the backside of the frame.** Reinsert the long screwdriver back between the fuel tank and the backside of the frame and gently pry the fuel tank away from the frame (**see our bolt fishing guide**).
5. Gently pull on the wire end of the bolt fisher until the washers and bolt slide between the fuel tank and the backside of the frame. (**See photo B**) Remove the long screwdriver from between the frame and fuel tank and insert it into the slotted hole. Gently pull any lines inside of the frame up with the screwdriver so that the washers and bolt do not get snagged.

6. Once the threads of the bolt are through the frame, gently remove the bolt fisher from the threads of the bolt.
7. Place the spring end of the bolt fisher through the oblong hole in the frame located just rear of the spring hanger bolt (**see photo C**), and out the end of the frame.
8. Place 2 star washers and a flat washer on to a 1/2" x 2" (5cm long) bolt and install the spring of the bolt fisher on to the threads of the bolt. Again, slide the star washers and flat washer over the spring and up the wire. Gently pull on the wire end of the bolt fisher, pulling the bolt and washers through the frame and out of the slotted hole located in the bottom of the frame (**see photo D**). Once the threads of the bolt are through the frame, remove the bolt fisher.
9. Locate the driver side tie down receiver and line up the rear most hole in the tie down receiver with the bolt that you just fished through in step 9. Once the threads of the bolt are through the receiver, line up the front hole. **NOTE: By lining the receiver up in this order, you are preventing the front bolt from being knocked back into the frame.** Install 2 flat washers, a lock washer and nut on to the forward bolt and tighten nuts to hand tight at this time.
10. Install one M10 X 1.5 x 60 bed bolt and reinstall through the strap and into the bed. Once the factory bed bolt has been reinstalled to its proper location, install 2 flat washers, a lock washer and a nut on to the rear bolt and hand tighten.
11. Tighten all 1/2" bolts to 60 ft. lbs.(81nm) and bed bolt to 65ft. lbs.(88nm)
12. Repeat all steps for Passenger Side.

PROPER BOLT ASSEMBLY



The star washers have been supplied to keep the bolt from spinning while tightening the nut to proper specifications.

Again, the star washers are only required on fastener applications where the head of the bolt CAN NOT be accessed (inside a boxed frame etc.) with a wrench to hold the bolt from spinning while tightening the nut by hand.

Note: The upper row as shown in the photo including the hex bolt, star washers, and flat washer is the assembly from the inside of the vehicle frame, the lower row which includes the flat washer, lock washer, and nut will be used to tighten the assembly from the outside of the frame.

ILLUSTRATED DIAGRAMS

TOP HOLE

PHOTO A

PHOTO B



SCREWDRIVER BETWEEN FRAME & FUEL TANK

PHOTO C

PHOTO D



OBLONG HOLE

SLOTTED HOLE IN BOTTOM OF FRAME

PHOTO E

PHOTO F



INSTRUCTIONS FOR MAINTENANCE OF POLISHED STAINLESS STEEL PRODUCTS



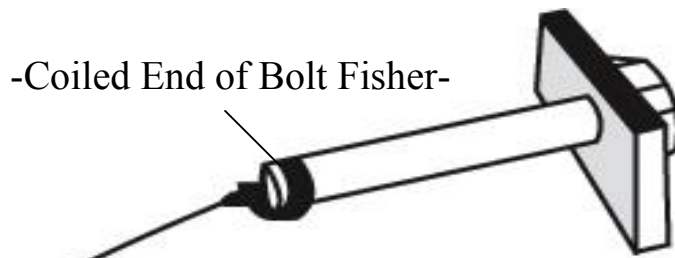
Torklift utilizes quality grade 304 stainless steel in this product.

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.

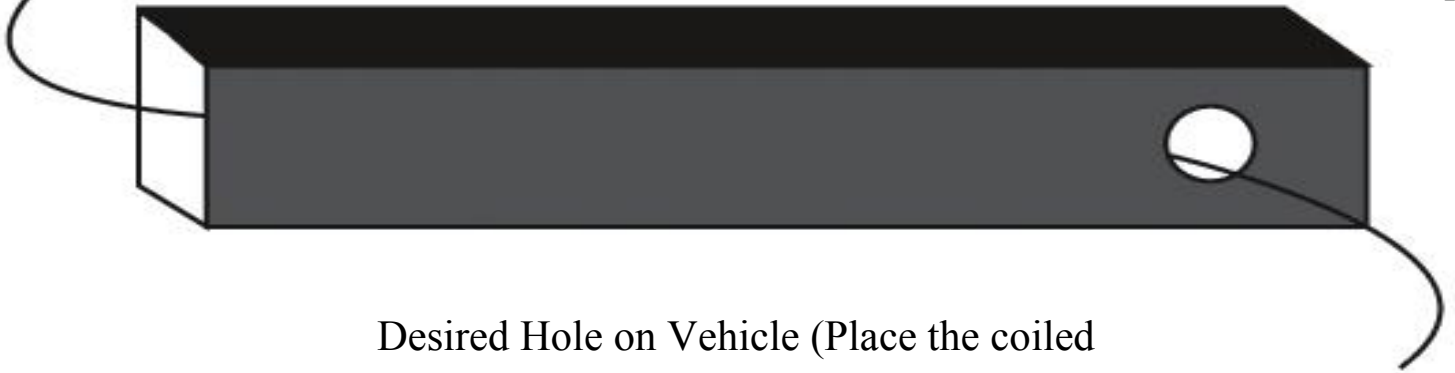
We recommend occasional polishing of our product to maintain its attractive finish. Use an approved stainless steel cleaning/polishing product, which can be purchased from any automotive supplier.

TORKLIFT'S BOLT FISHING GUIDE

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



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



IMPORTANT NOTE: *Your tie down inserts are designed to have clearance inside of the receiver. This is to account for road debris, as well as aid in installation and removal. Some rattle may be expected if the inserts are left installed while not under load from the camper.*

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.

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.

TORKLIFT DOES NOT RECOMMEND: Installing your truck camper in your truck on top of a drop in plastic bed liner!!! 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, and camper damage!

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.