



**OVER 35 YEARS OF INNOVATION, QUALITY, SAFETY.**



**IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS**

**D2100**

# 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.

# ADDENDUM



**Depending on the year of your vehicle, the emergency brake line will be positioned either above or below the tie down receiver. To prevent any possible emergency brake line damage, we have provided you with a 3/8" piece of tubing to wrap around the line and four tie straps to secure the tubing. You will have to slit the tubing lengthwise in order to slip the line inside prior to securing the tie straps as shown above.**

# D2100 PARTS INVENTORY

2- <a href="#">TIEDOWN RECEIVERS</a>	4- 1/2" NUTS
2- TIEDOWN BENT INSERTS	2- M10 x 1.5 x 40 HEX BOLT
4- 1/2" X 2" HEX BOLTS	8- 1/2" STAR WASHERS
12- 1/2" FLAT WASHERS	2- 1/4" PINS
6- 1/2" LOCK WASHERS	1- 1/2" BOLT FISHER
1- 3/8" x 9"(22.86cm) RUBBER HOSE	4- TIE STRAPS

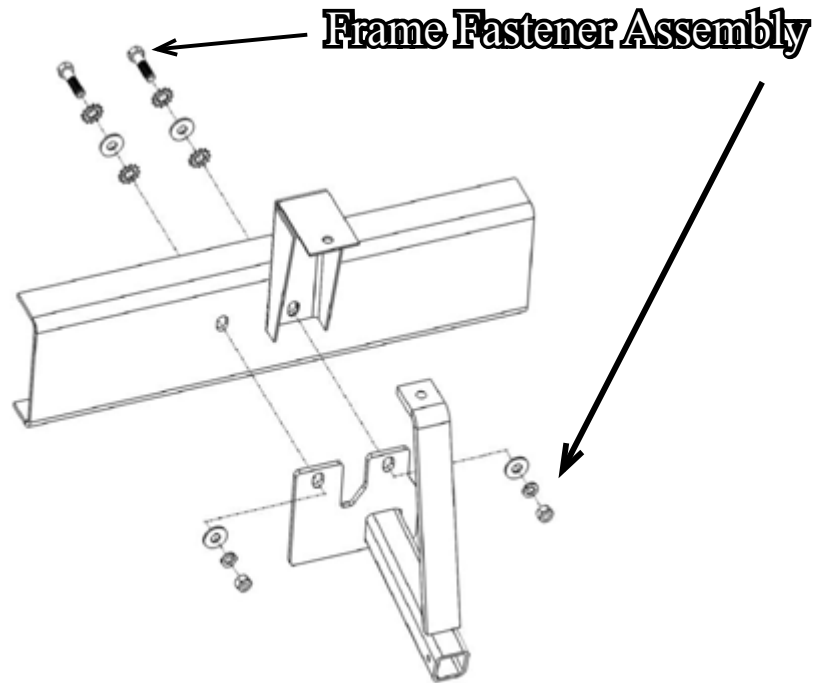
## INSTALLATION INSTRUCTIONS:

1. Locate and inventory all parts to become familiar with all brackets.
2. Find driver's side tie down receiver. Hold the bracket up to the side of the frame at the front of the truck bed, until both of the factory holes in the side of the frame line up with the holes in the receiver (NOTE: on the 96 and some early 97 model year trucks one of the holes in the side of the frame may be missing and will need to be drilled out to 17/32"). Both of these holes will need to have 1/2" x 2" hex bolt, star washer, flat washer and then another star washer fished into them with supplied bolt fisher (See **our bolt fishing guide**).  
**HINT:** Before fishing drivers front bolts, cut the factory plastic steel line/wire harness retainer clips and push them in (see **photo A page 4**). This will allow you to use a pair of screwdrivers to walk the lines down out of the way. Place the first screwdriver through the small holes in the side of the frame just above the lines/wire harness; push the screwdriver handle up, which will push the lines down. Use the other screwdriver in a different hole, and repeat the process until the lines are down out of the way. Fish the bolts in (see **our bolt fishing guide**) and pull the screwdrivers out. Make sure the bolts are perpendicular to the frame before tightening. When fishing these bolts, put the coiled end of the bolt fisher into one of the holes and bring it out on top of the frame between the cab and the bed. Insert the threaded end of the bolt onto the fisher and slowly remove the fisher, pulling the threaded end back through the desired hole.  
**HINT:** Do not force the bolt by pulling hard or jerking on the fisher, as this will likely damage the fisher, and/or drop the bolt into the frame. After both bolt plates are fished into the receiver, install a flat washer; lock washer and a nut onto these bolts and hand tighten.  
**WARNING: Make sure all wire harnesses, brake and fuel lines are clear when tightening or damage may occur!**  
**HINT:** If you do drop a bolt in the frame, use a flat piece of metal or wood with a blunt end as a pry bar. Slide it between the tank and the frame. Have another person pull on the pry bar slowly, just enough to get the bolt out. The factory tank is resilient enough to give without cracking. Put your fingers between the tank and the frame and remove the bolt. You should be able to get the bolt out using this method.
3. Remove the factory bolt that attaches the truck box to the frame tower. Hang the receiver on two frame bolts, and loosely fasten. Next, swing the bracket up and fasten to the upper frame tower with the supplied 10mm x 40mm metric bolt, flat washer, and lock washer (see **photo B on page 4**).
4. Place one bent insert into the receiver using the first hole in the insert, install 1/4" pin.
5. Fasten all bolts to 60 ft. lbs. then double-check that all bolts are tight and that there is 1" of clearance between the insert and bed lip. Repeat steps 3 through 6 on passenger side (relocate factory ground strap on bottom of truck bed for upper support channel, passenger side only).

# ILLUSTRATED DIAGRAM

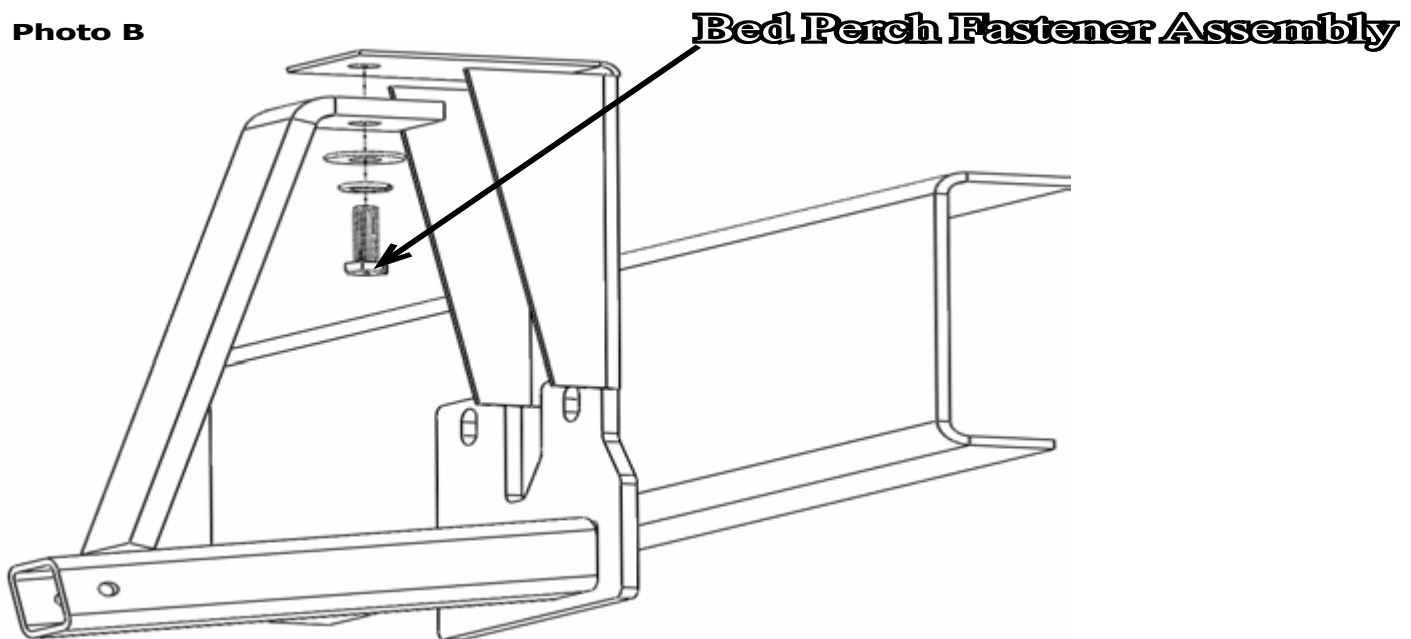
**\*NOTE:** The included tie down inserts come with 2 predrilled pinholes. When hooking up your camper, either hole may be used providing there is a MINIMUM of 2" clearance between the chain/turnbuckle attaching assembly and the truck bed wall. THERE ARE ALSO 2 PRE-PUNCHED HOLES LOCATED ON THE TRIANGULAR BULLET PLATE ON THE END OF EACH TIEDOWN INSERT AND WHILE EITHER OF THE TWO HOLES CAN BE USED, THE HOLE THAT PROVIDES THE GREATEST ANGLE IS PREFERRED.

Photo A



**DO NOT INSTALL YOUR TRUCK CAMPER IN YOUR TRUCK ON TOP OF A DROP IN PLASTIC BEDLINER! YOUR CAMPER CAN SLIDE, RESULTING IN SEVERE BED DAMAGE!! USING A RUBBER BED MAT WILL MINIMIZE MOVEMENT AND WILL ENSURE THE WARRANTY ON YOUR TIEDOWN SYSTEM.**

Photo B



# **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.**

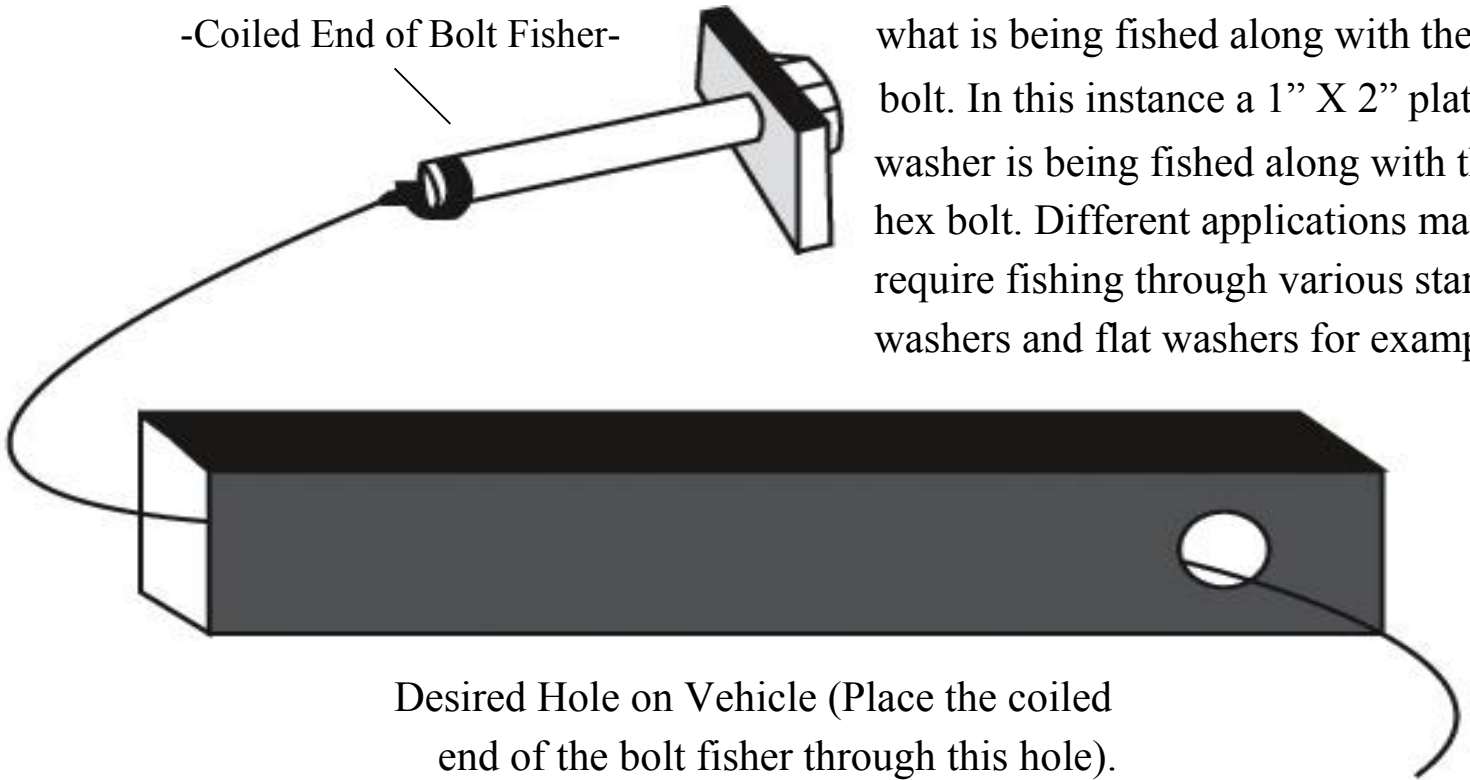
**We recommend occasional polishing of our product to maintain its attractive finish. Use an approved stainless steel cleaning/polishing product, which can be purchased from any automotive supplier.**

# TORKLIFT'S BOLT FISHING GUIDE

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

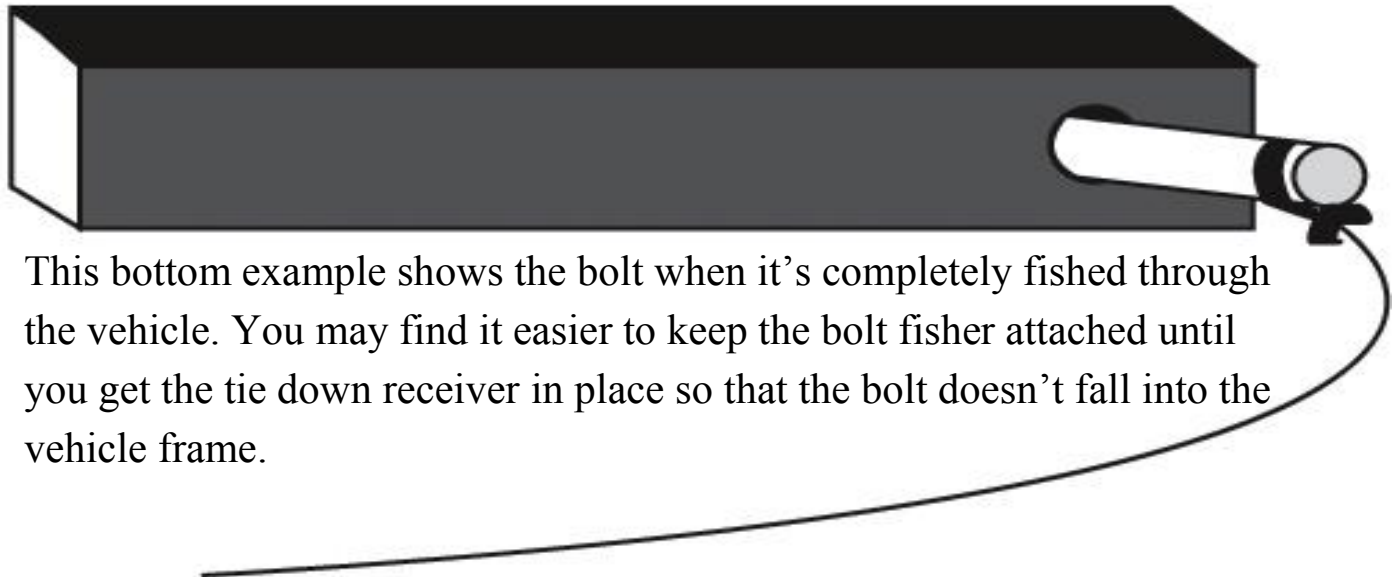
Note: The hardware may vary as to what is being fished along with the bolt. In this instance a 1" X 2" plate washer is being fished along with the hex bolt. Different applications may require fishing through various star washers and flat washers for example.

-Coiled End of Bolt Fisher-



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.