

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

IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS

**GLOW STEP** 

#### RV CAMPER LOCKABLE BRACKET

A7502, A7802 / 2-STEP mounting bracket height of 19.5"(50cm)

A7503, A7803 / 3-STEP mounting bracket height of 27"(69cm)

 $A7504,\ A7804\ /\ 4\text{-}STEP\ \text{mounting bracket height of 34.5"(88cm)}$ 

 $A7505,\,A7805$  / 5-STEP mounting bracket height of 42"(107cm)

A7506, A7806 / 6-STEP mounting bracket height of 49.5"(126cm)

#### **UNIVERSAL RV SCISSOR STEPS**

#### 11.09.2010 MOUNTING BRACKET REDESIGN

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 <u>DOES NOT</u> RECOMMEND: Installing your truck camper in your truck on top of a drop in plastic bed liner!!! <u>THIS WILL VOID YOUR WARRANTY!</u>

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!

#### **WEIGHT CAPACITIES**

$$A7502 = 325lbs(147kg)$$

$$A7802 = 350lbs(158kg)$$

$$A7502 + GlowGuide = 350lbs(158kg)$$

A7802 + GlowGuide = 375lbs(170kg)

$$A7503 = 325lbs(147kg)$$

$$A7803 = 350lbs(158kg)$$

A7803 + GlowGuide = 375lbs(170kg)

$$A7504 = 325lbs(147kg)$$

$$A7804 = 350lbs(158kg)$$

$$A7804 + GlowGuide = 375lbs(170kg)$$

$$A7505 = 275lbs(125kg)$$

$$A7805 = 300lbs(136kg)$$

$$A7505 + GlowGuide = 300lbs(136kg)$$

A7805 + GlowGuide = 325lbs(147kg)

$$A7506 = 275lbs(125kg)$$

$$A7806 = 300lbs(136kg)$$

$$A7506 + GlowGuide = 300lbs(136kg)$$

A7806 + GlowGuide = 325lbs(147kg)

## Northern-Lite Campers Addendum

\*Glow Step Mounting Bracket cannot be mounted onto a Northern Lite Camper without a Bumper\*

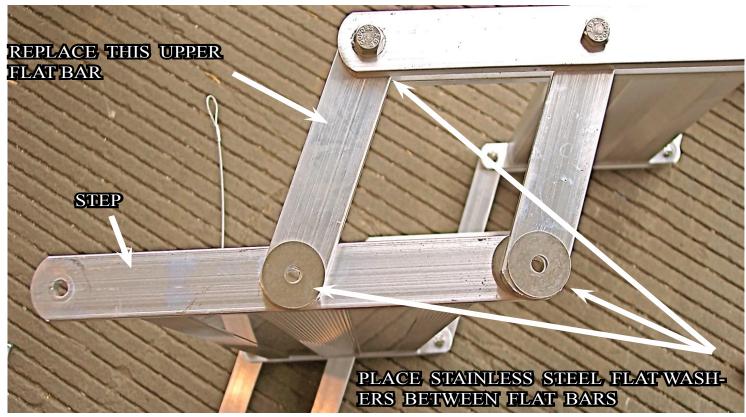
## Hinge Tension Adjustment Addendum

In case you find that the Glow Step is difficult to open and close, you can back the nylon locking nuts out 1/4" of a turn to loosen the hinge points. Please be sure that there is at least 3/4" threads into the nylon nut.

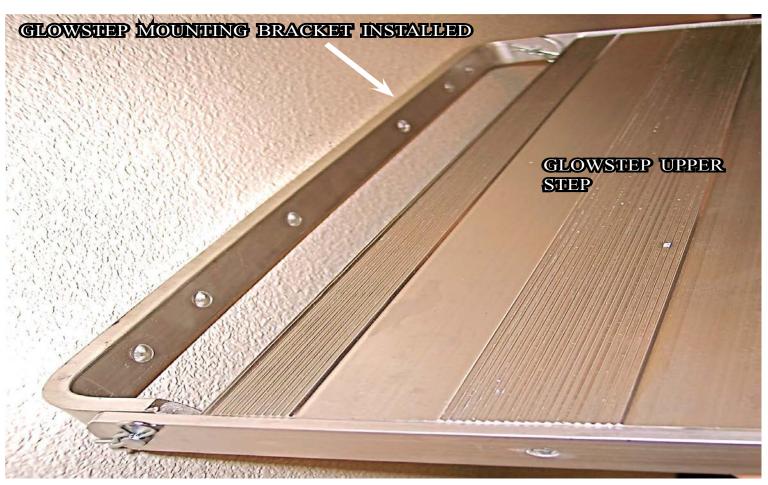
# GlowStep Platform Addendum

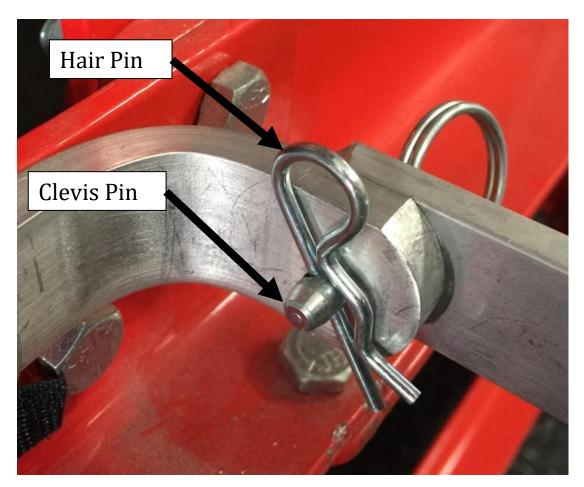
This is an addendum for those wanting to have the upper step as a platform. Note: This adaption is only for 6" deep GlowSteps and will not work with 8" deep GlowSteps.











## **GLOWSTEP BRACKET INVENTORY**

6- SS 3/8"-16 X 1-1/4" HEX BOLT

6- SS 3/8"-16 HEX NUT

6- SS 3/8" X 7/8" O.D. WASHER

6-SS 3/8" STAR WASHERS

6- SS 3/8" LOCK WASHER

6- SS #14 X 1-1/2" LAG SCREW

2- SS 1/4" X -20 HEX NUT NYLOCK

6- SS 1/4" X 3/4" O D FLAT WASHER

1- GLOWSTEP MOUNTING BRACKET

2- SS 1/4"1" O.D FENDER WASHER

2- SS 1/4" -20 X 1" BEVEL HEAD BOLT

2- 1/4" X 1" X 3-1/4" ALUMINUM STIFFENER PLATE

1- 3/8" X 48" BOLT FISHER

2- 1/4" X 3/4" CLEVIS PIN

2- 1/8" X 1-15/16" HAIR PIN (#216)

#### \* <u>IMPORTANT</u>:

TORKLIFT INTERNATIONAL WARRANTIES THE GLOWSTEP MOUNTING BRACKET, NOT THE SURFACE OR BODY OF WHERE IT IS MOUNTED. STRENGTH OF THE MOUNTING SURFACE IS UP TO THE DISCRETION OF THE INSTALLER. TORKLIFT DOES NOT WARRANTY LEAVING THE STEP ATTACHED UNLESS IT IS BOLTED ON WITH GRADE 5 OR GREATER 3/8" HEX BOLTS AND NUTS. YOU MAY NEED TO USE A 3/16" PILOT DRILL BIT FOR SOME INSTALLATIONS

#### INSTALLATION INSTRUCTIONS FOR CAMPER MOUNT:

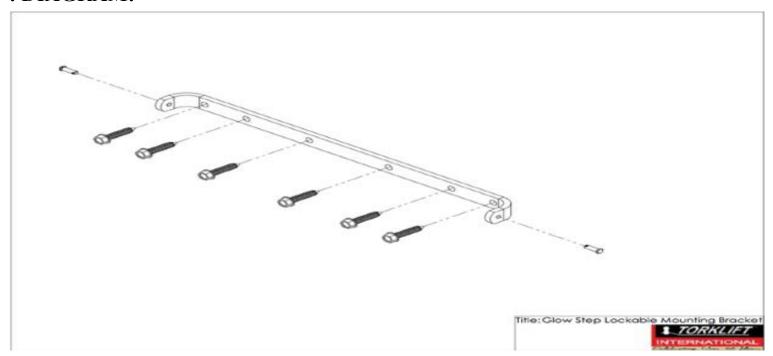
1. LINE UP THE NEW GLOWSTEP MOUNTING BRACKET UNDER THE CAMPER DOOR. MARK HOLES. **PHOTO A)** 

2. USE ONE SS 1/4" X 3/4" O.D. FLAT WASHER ON EACH OF THE 1-1/2" SS LAG SCREWS. SCREW THEM IN PLACE. USE DIAGRAM BELOW (IF USING THE BOLTS FOR A STRONGER CONNECTION TO CAMPER)

INSTALL ONE 3/8"-16 X 1-1/4" HEX BOLT AND 3/8" FLAT WASHER THROUGH THE BRACKET, THEN SECURE EACH WITH A 3/8" FLAT WASHER, 3/8" LOCK WASHER, AND 3/8" HEX NUT. TIGHTEN TO 45 FT-LB.(61nm) WITH A TORQUE WRENCH. **PHOTO B**)

3. USE THE 1/4" X 3/4" CLEVIS PIN AND 1/8" X 1-15/16" HAIR PIN (#216) AND/OR LOCK\* TO CONNECT TO THE NEW BRACKET. **PHOTO C, D)** 

#### : DIAGRAM:



#### LANCE CAMPER BUMPER GLOW STEP INSTALLATION:

- 1. TAKE THE GLOW STEP MOUNTING BRACKET AND INSTALL THE ALUMINUM STIFFENER PLATES ON THE ENDS OF THE GLOW STEP MOUNTING BRACKET. USE TWO 1/4" SS FENDER WASHERS, TWO 1/4" 20 SS BEVEL HEAD BOLT AND TWO 1/4" 20 SS HEX NUT NYLOCK. **SEE PHOTO E, F)**
- 2. LOCATE THE FOUR FACTORY BOLTS PROTRUDING FROM THE BOTTOM OF THE LANCE CAMPER BUMPER.
- 3. LINE UP THE GLOW STEP MOUNTING BRACKET WITH THE FACTORY BOLTS AND INSTALL FOUR 3/8" SS WASHERS, FOUR 3/8" SS LOCK WASHERS, AND FOUR 3/8" SS HEX NUTS. TIGHTEN TO 45 FT-LB.(61kg) WITH A TORQUE WRENCH. **SEE PHOTO G)**
- 4. USE THE 1/4" X 3/4" CLEVIS PIN AND 1/8" X 1-15/16" HAIR PIN (#216) AND/OR LOCK\* TO CONNECT TO THE NEW BRACKET. **PHOTO C, D**)

#### UNIVERSAL BUMPER GLOW STEP INSTALLATION:

- 1. LOCATE ON THE BUMPER (EITHER ON THE BOTTOM OR THE SIDE); YOUR DESIRED MOUNTING SPOT.
- 2. TAKE THE GLOW STEP MOUNTING BRACKET AND MARK THE SIX HOLES WITH A MARKER.USE A 3/16" PILOT DRILL BIT TO MAKE THE INITIAL HOLES, THEN USING A 7/16" DRILL BIT, DRILL OUT THE HOLES.
- 3. INSERT THE 48" X 3/8" BOLT FISHER INTO THE HOLE AND OUT THE SIDE OF THE BUMPER. PLACE ONE 3/8" SS STAR WASHER, AND ONE SS 3/8"-16 X 1-1//4" HEX BOLT ONTO THE BOLT FISHER AND STRING THROUGH TO EACH HOLE.
- 4. INSTALL THE GLOW STEP MOUNTING BRACKET AND USE ONE 3/8" SS FLAT WASHER, ONE 3/8" SS LOCK WASHER AND ONE 3/8" HEX NUT ON EACH BOLT. TIGHTEN TO 45 FT-LB(61NM). WITH A TORQUE WRENCH SEE PHOTO H, I)
- 5. USE THE 1/4" X 3/4" CLEVIS PIN AND 1/8" X 1-15/16" HAIR PIN (#216) AND/OR LOCK\* TO CONNECT TO THE NEW BRACKET. **PHOTO C, D)**



PHOTO B)

GLOW STEP MOUNTING
BRACKET



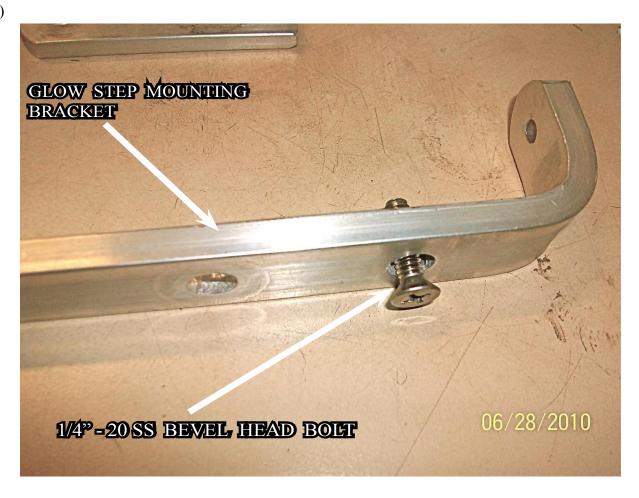
PHOTO C)

#### PHOTO D)

### \* LOCK SOLD SEPARATELY



#### PHOTO E)



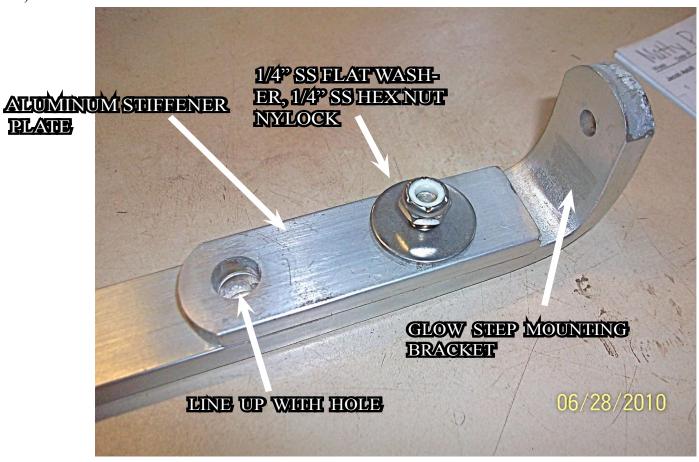
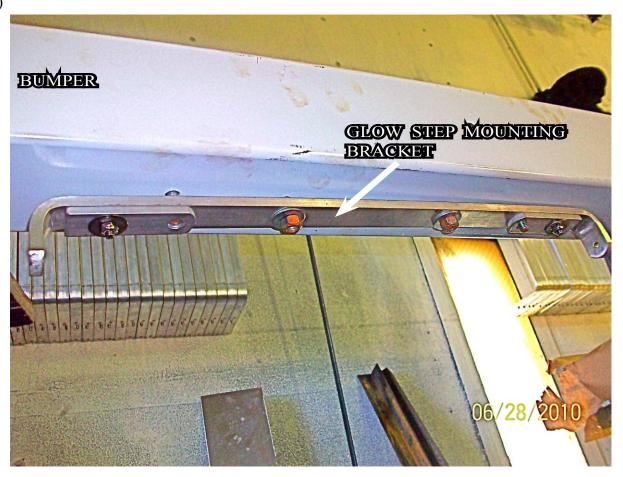
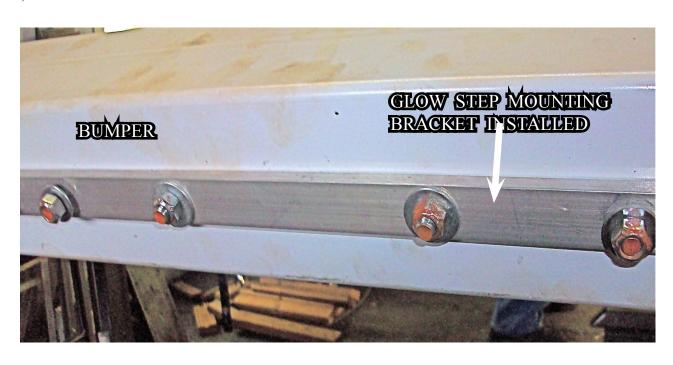


PHOTO G)



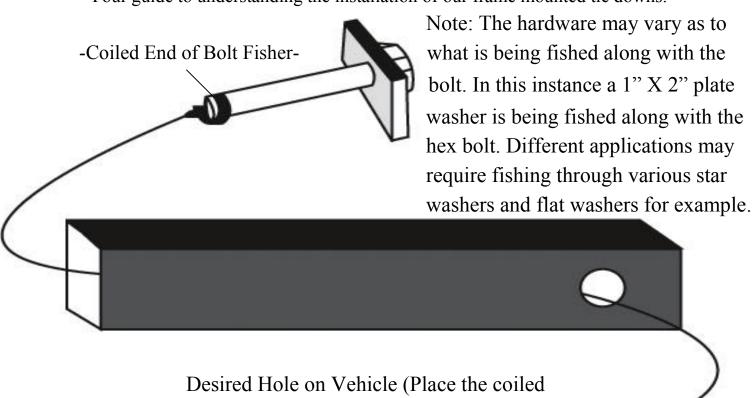






## TORKLIFT'S BOLT FISHING GUIDE

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



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.



# TRUE FRAME MOUNTED CAMPER TIE DOWNS

IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS
GLOW STEP
RV CAMPER LOCKABLE BRACKET

A7502, A7802 / 2-STEP MOUNTING BRACKET HEIGHT OF 19.5"
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A7505, A7805 / 5-STEP MOUNTING BRACKET HEIGHT OF 42"
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UNIVERSAL RV SCISSOR STEPS

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A7502 = 325lbs	A7802 = 350lbs
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A7505 = 275lbs	A7805 = 300lbs
<b>A7505</b> + <b>GlowGuide</b> = <b>300lbs</b>	A7805 + GlowGuide = 325lbs
A7506 = 275lbs	A7806 = 300lbs
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# Northern-Lite Campers Addendum

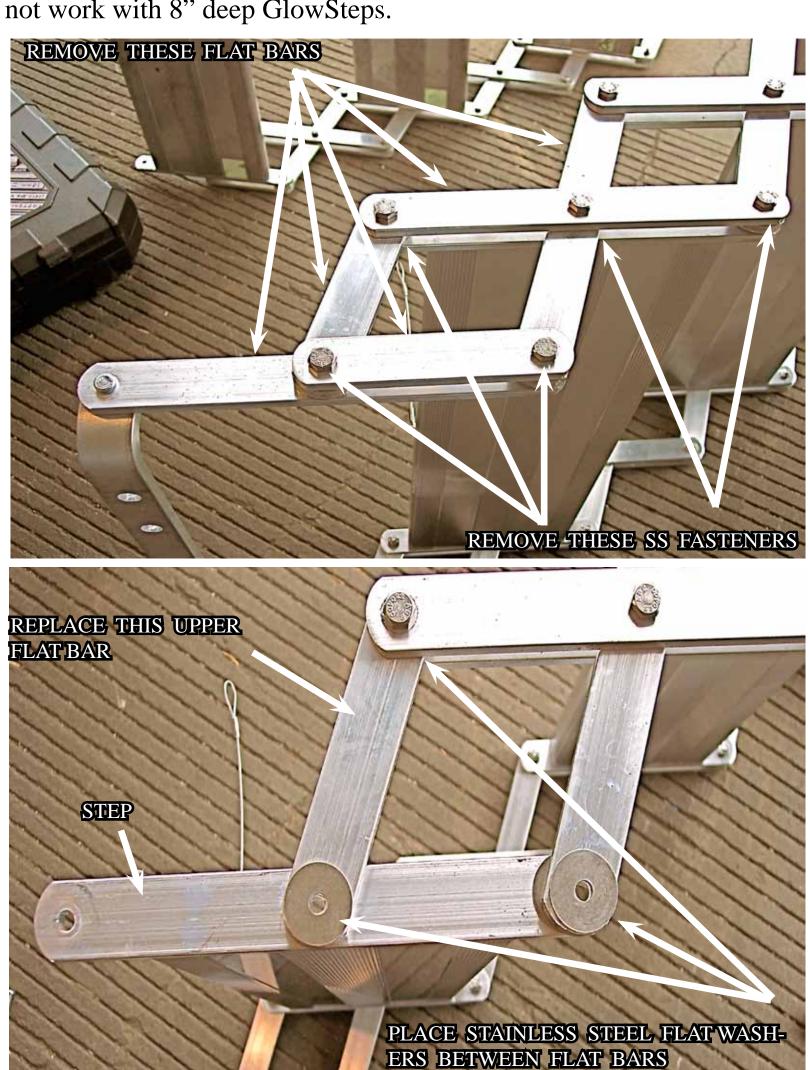
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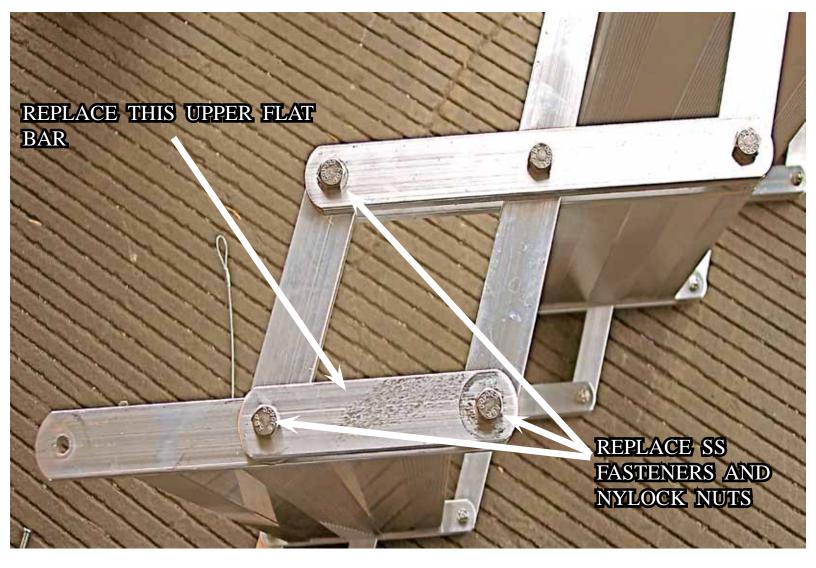
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# Glowstep Platform Addendum

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- 6- SS 1/4" X 5/8" O.D. FLAT WASHER

- 1- GLOWSTEP MOUNTING BRACKET
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- 2- SS 1/4" -20 X 1" BEVEL HEAD BOLT
- 2- 1/4" X 1" X 3-1/4" ALUMINUM STIFFENER PLATE
- 1- 3/8" X 48" BOLT FISHER
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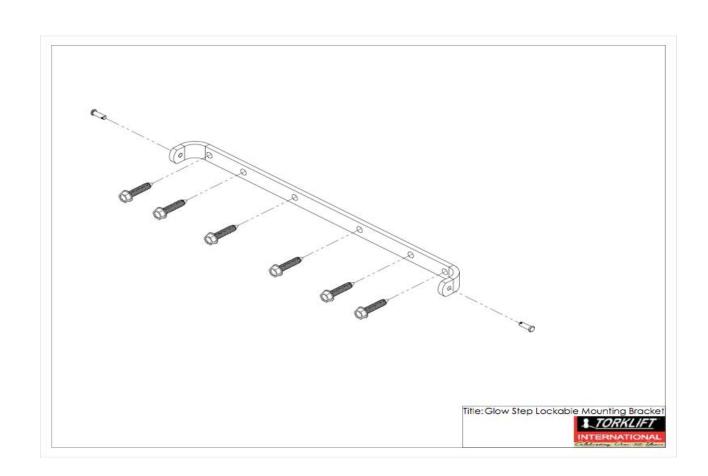
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INSTALL ONE 3/8"-16 X 1-1/4" HEX BOLT, 3/8" LOCK WASHER, 3/8" FLAT WASHER THROUGH BRACKET. THEN, 3/8" FLAT WASHER, 3/8" LOCK WASHER, AND 3/8" HEX NUT IN EACH HOLE. TIGHTEN TO 45 FT-LB. WITH A TORQUE WRENCH. **PHOTO B** )

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PHOTO C, D)

PHOTO A)



PHOTO B)

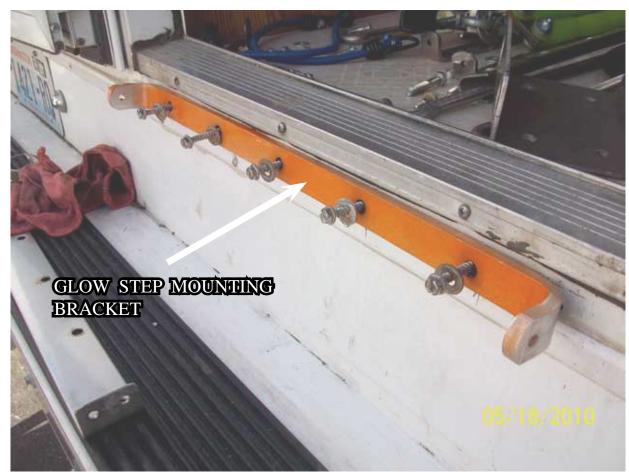


PHOTO C)



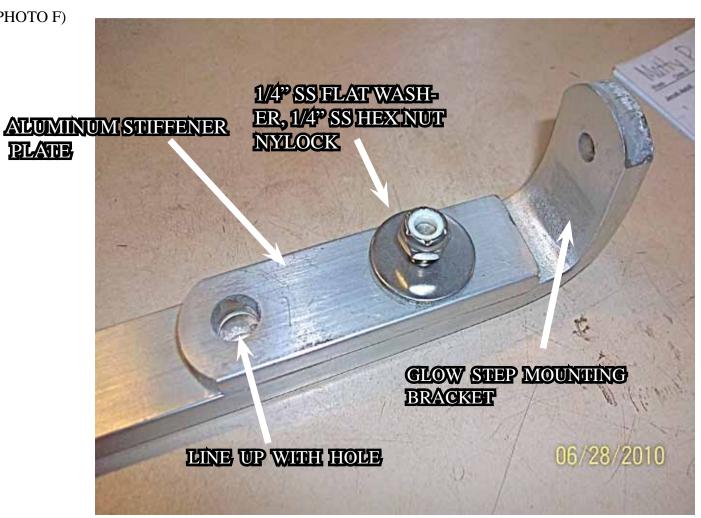


#### PHOTO E)

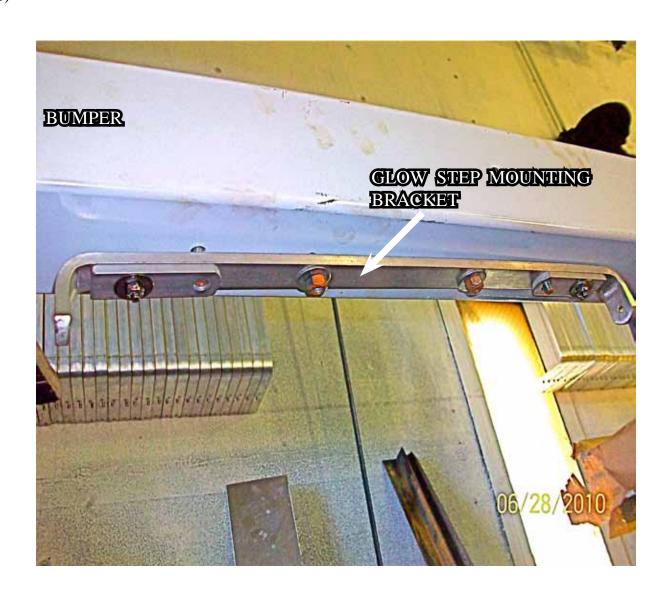


PHOTO F)

PLATE



#### PHOTO G)



SIX SS 3/8" BOLLIS

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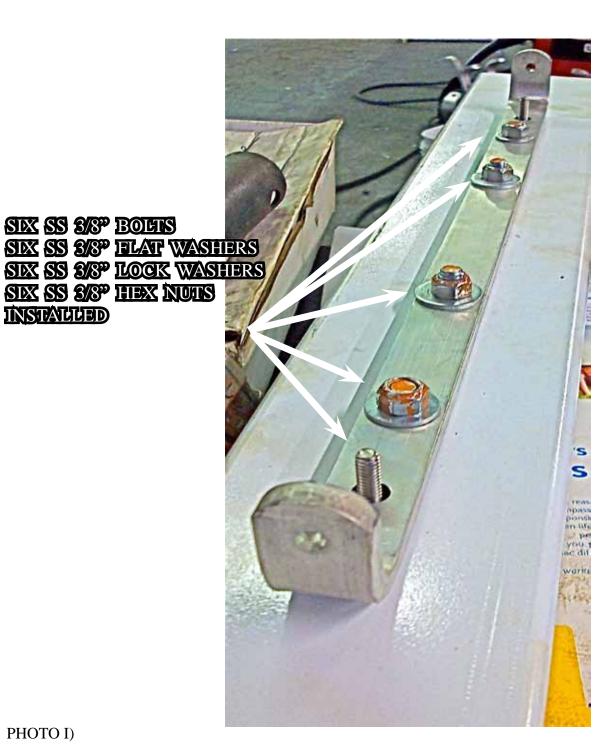
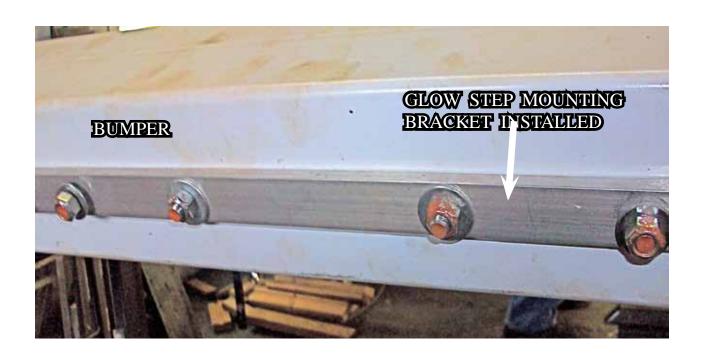


PHOTO I)



# 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.



Leading the camper tie down industry in strength, quality, advanced design and installation. TorkLift TRUE frame mounted tie downs are far superior to all tie down systems available.

The TorkLift system is unique in its design and is patented. Four independent tie down points (with no belly or crossbar) working much like your receiver type trailer hitch as the inserts are removable allowing the system

to be virtually undetectable when not in use.

They are designed for each make and model to fit tight to the frame so as not to compromise ground clearance. TorkLift tie downs are not universal 'one size fits all' therefore all the problems with correct fit for each particular application have been eliminated.

## Super Hitch

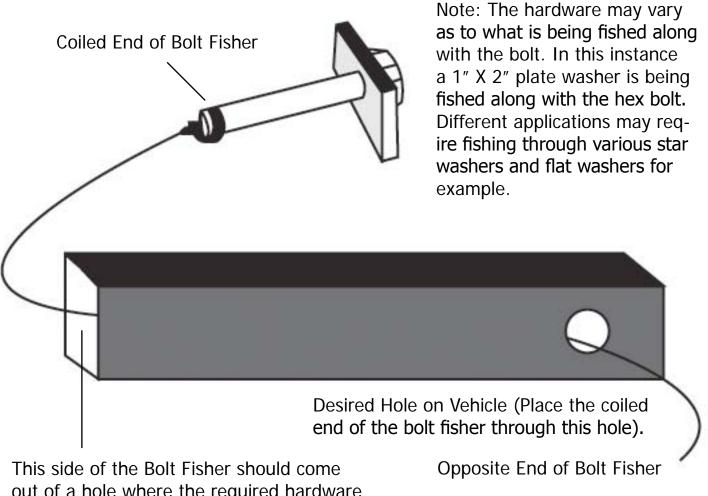
High strength extended hitch system engineered for safely towing all types of trailers behind your truck and camper. With a towing capacity of 12,000 lbs. with an extension, (17,000 lbs. without) the SuperHitch is rated the strongest in the industry.



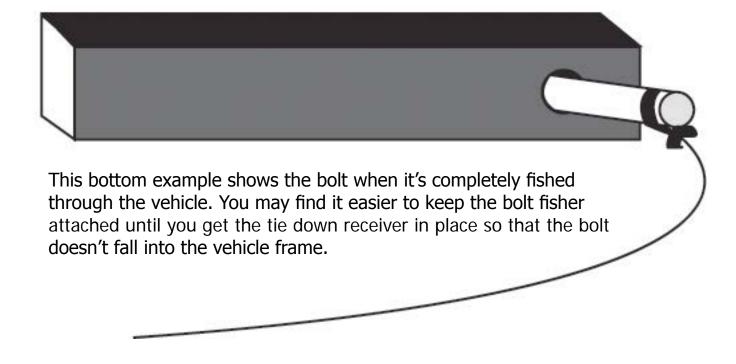
CONTACT YOUR LOCAL DEALER FOR MORE DETAILS

## TORKLIFT'S BOLT FISHING GUIDE

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



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



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

# TIEDOWN INSERT INSTALLATION INSTRUCTIONS

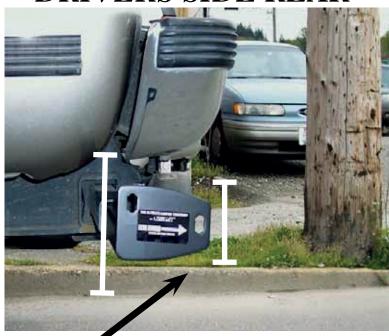
On one end of each of your tiedown inserts is a triangular plate referred to by Torklift as a bullet plate. Your tiedown inserts should be installed with the shorter side of the bullet plate facing away from each other, i.e.. The shorter side of the front insert should point to the front of the truck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

# TURNBUCKLE SPRINGLOAD OPTIONS CONTACT YOUR LOCAL DEALER FOR MORE DETAILS

Torklift requires all 4 tiedown points to be spring loaded in order to qualify for our manufacturer's

**Industry Exclusive Camper Anchor and Truck Frame Warranty** 

# BASIC SPRINGLOAD KIT - S9000

Includes 2 External Springload Units & 2 Heavy Duty Forged Turnbuckles.

Lifetime Guarantee





#### **FASTGUNS LEVER ACTION TURNBUCKLES**

S9520-GREY SS / S9521-WHITE SS / S9527-POLISHED SS FOR BED MOUNTED TIEDOWNS

S9522-GREY SS/ S9523-WHITE SS/ S9526-POLISHED SS S9529-BLACK SS

#### FRAME OR BUMPER MOUNTED TIEDOWNS

Includes 2 Stainless Steel Turnbuckles with an Internal "Set" Spring. Available in 2 Lengths and 3 Finishes (Grey, White or Polished Stainless Steel)

Lifetime Guarantee

# FASTGUN DERRINGERS Zinc S9524 Stainless Powdercoat S9525 Polished Stainless S9528

Transforms Your Pre-Existing Conventional
Turnbuckles into a Lever Action
FastGun Style Turnbuckle.
Kit includes 4 lever action Derringers





#### SPRINGLOAD XL KIT - S9050

This set includes 2 Long Chrome Barreled
Turnbuckles with an Internal "Set" Spring.
The Springload XL Kit comes with a Polished Chrome Finish and is compatible with the FastGun Derringers.

2 year warranty

# 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 have 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 tiedowns 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  $2 \times 4$  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 reccommendation simply as a safety precaution to protect the truck bed, the bottom of the camper and to give the camper additional support.

<u>TORKLIFT DOES NOT RECOMMEND:</u> 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 guidlines. 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, (consistantly 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 an 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.