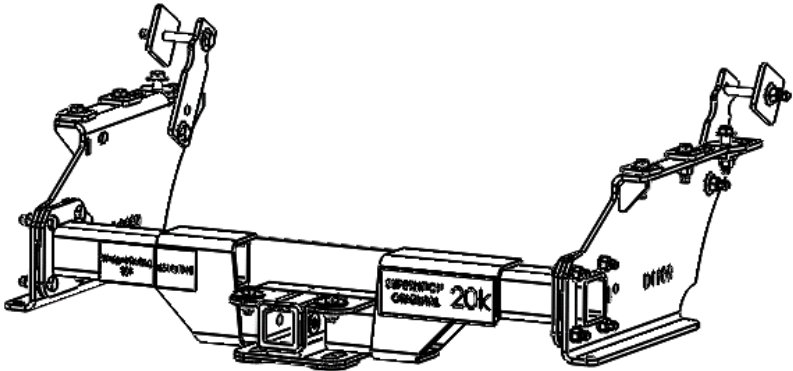


# **TORKLIFT** **INTERNATIONAL**

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

## **- SUPER HITCH - SUPER TRUSS EXTENSION** IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS

D1109



Version 2 - 8/3/2018 BY: CW

TECH SUPPORT (800) 246-8132

**AFTER INSTALL, PLEASE GIVE  
THIS BOOKLET TO YOUR CUSTOMER**

# **Hitch Weight Capacity**

## **Weight Carry**

17,000 lbs maximum pull weight  
1,700 lbs maximum tongue weight

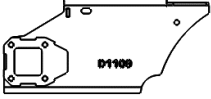
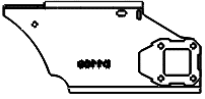

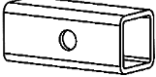

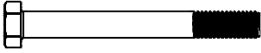

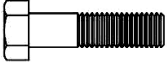
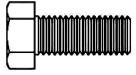





## **Weight Distribution**


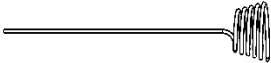
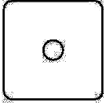




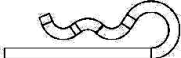

20,000 lbs maximum pull weight  
2,000 lbs maximum tongue weight.

## **Warning**

Do not exceed the factory weight ratings of  
your vehicle

Parts Inventory

Image	Description	Qty	Item#
	Driver Side Plate	1	D1109-W1-D
	Passenger Side Plate	1	D1107-W1-P
	Cross Tube	1	SH-3.00-38.00-A2
	2" x 2" Factory Receiver Adapter	1	SH-ADPTSLV-A
	1/2" Star Washer	6	4566
	1/2"-13 x 4-1/2" Grade 8 Hex Bolt	2	10155
	1/2"-13 x 2-1/2" Grade 8 Hex Bolt	2	9887
	1/2"-13 x 2" Grade 8 Hex Bolt	16	3659
	1/2"-13 x 1-1/4" Grade 5 Hex Bolt	2	7321
	1/2" x 2" x 3/16" Fender Washer	2	4623
	1/2" x 2" x 1/16" Fender Washer	2	12461
	1/2" USS Flat Washer	28	6039
	1/2" Lock Washer	20	9302
	1/2"-13 Grade 5 Serrated Flange Nut	2	7181

	1/2"-13 Grade 8 Hex Nuts	20	1751
	1/2" Bolt Fisher	1	3818
	3"(8cm) x 3"(8cm) Plate Washer	2	D1107-P8
	1"(2cm) x 2"(5cm) Plate Washer	4	10859
	2" x 2" Square Plate Washer	6	11403
	No Drill Strap	2	SH-SS-P2
	5/8" Hitch Pin	2	3703
	Hitch Pin Clip	2	
	2" x 8-1/4" UHMW Strip	1	Shear-11409- 8.25

# **! WARNING!**

It is very important that you read and follow the installation instructions on this particular installation. Be sure to identify and familiarize yourself with the hitch and all hardware. Any modification to this hitch will VOID your warranty!!! This hitch is meant to be installed in conjunction with the factory receiver hitch.

## INSTALLATION INSTRUCTIONS

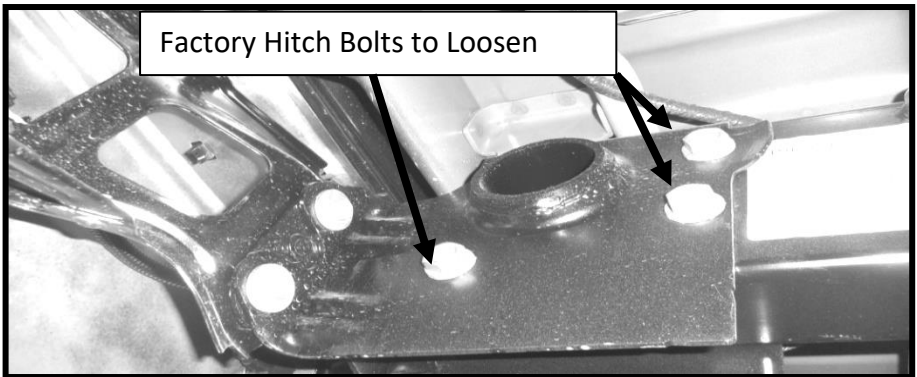
### **Step 1**

- Temporarily remove the spare tire, then remove the two screws holding the heat shield in place on the passenger side frame rail.

### **Step 2**

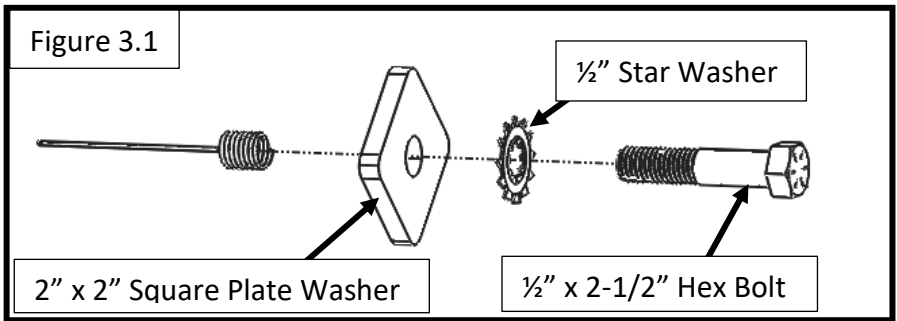
- Loosen the three bolts on both sides of the truck holding the factory hitch to the side of the frame. See Figure 2.1.

Figure 2.1



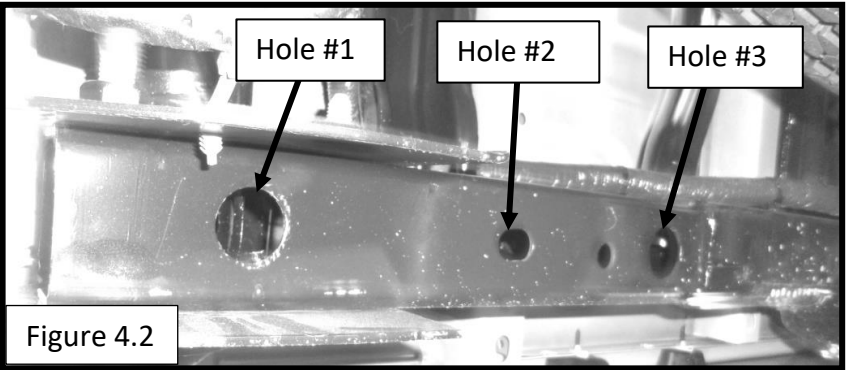
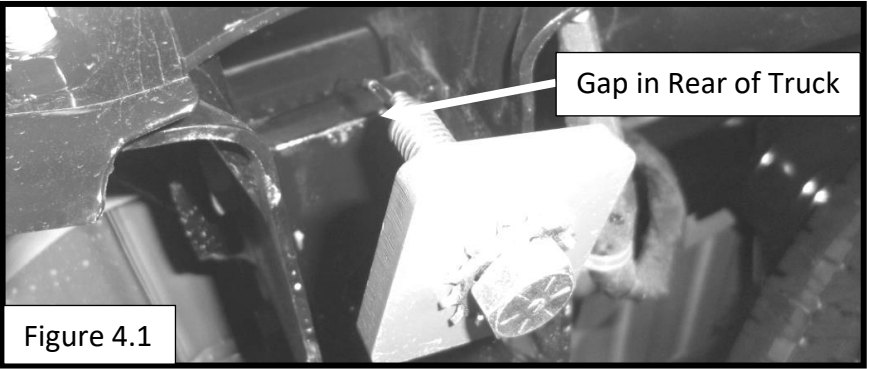
### Step 3

- Begin installation on the passenger side of the vehicle.
- Attach one **1/2"-13 x 2-1/2" Grade 8 Hex Bolt** to the coiled end of the **1/2" Bolt Fisher**.
- Slide one **1/2" Star Washer**, and one **2" x 2" Square Plate Washer** over the wire end of the **1/2" Bolt Fisher**. Leave the hardware separated on the bolt fisher. See **Figure 3.1**



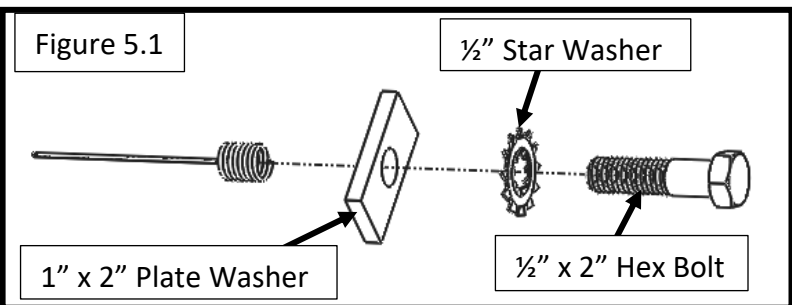
### Step 4

- Insert the straight end of the **1/2" Bolt Fisher** through the gap in the rear of the truck frame, then feed it out through Hole #3. See **Figure 4.1** and **Figure 4.2**
- Use the straight end of the bolt fisher to pull the hardware through the frame until the threads of the bolt protrude from Hole #3.
- Remove the **1/2" Bolt Fisher** for use on the next bolt.



### Step 5

- Attach one **1/2"-13 x 2" Grade 8 Hex Bolt** to the coiled end of the **1/2" Bolt Fisher**.
- Slide one **1/2" Star Washer**, and one **1" x 2" Plate Washer** over the wire end of the **1/2" Bolt Fisher**. Leave the hardware separated on the bolt fisher. See **Figure 5.1**

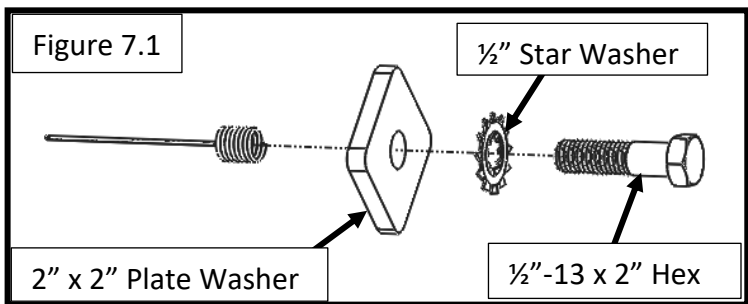


## Step 6

- Insert the straight end of the **1/2" Bolt Fisher** through the gap in the rear of the truck frame, then feed it out through Hole #2. See **Figure 4.1** and **Figure 4.2**
- Use the straight end of the bolt fisher to pull the hardware through the frame until the threads of the bolt protrude from Hole #2.
- Remove the **1/2" Bolt Fisher** for use on the next bolt.

## Step 7

- Attach one **1/2"-13 x 2" Grade 8 Hex Bolt** to the coiled end of the **1/2" Bolt Fisher**.
- Slide one **1/2" Star Washer**, and one **2" x 2" Plate Washer** over the wire end of the **1/2" Bolt Fisher**. Leave the hardware separated on the bolt fisher. See **Figure 7.1**

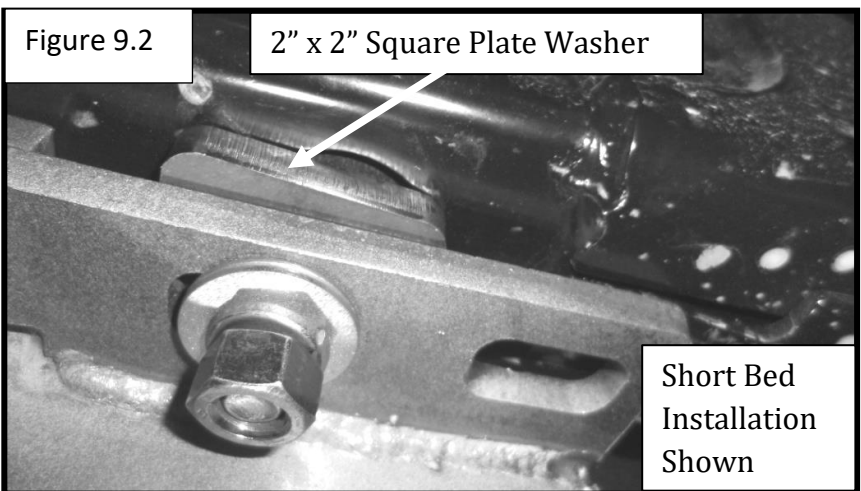
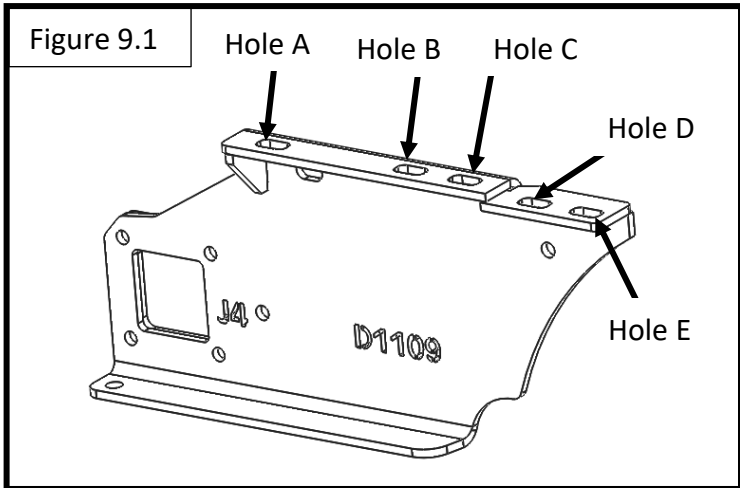


## Step 8

- Insert the straight end of the **1/2" Bolt Fisher** through the gap in the rear of the truck frame, then feed it out through Hole #1. See **Figure 4.1** and **Figure 4.2**
- Use the straight end of the bolt fisher to pull the hardware through the frame until the threads of the bolt protrude from Hole #1.
- Remove the **1/2" Bolt Fisher** for use on the next bolt.

## Step 9

- Align the passenger **Side Plate** holes with the three previously installed bolts.
- Short bed trucks will utilize side plate holes A,B, and D. Long bed trucks will utilize holes A,C,and E. See Figure 9.1.
- While holding a **2"x2" Plate washer** over hole D/E, Lift the plate into position. Be careful not to push the bolts back into the frame. See Figures 9.1 and 9.2



## Step 10

- While holding the **Side Plate** in place, install two **1/2" USS Flat Washers** followed by one **1/2" Lock Washer** and one **1/2" Grade 8 Hex Nut** onto each bolt. Leave the nuts loose to allow for movement. See Figure 10.1.

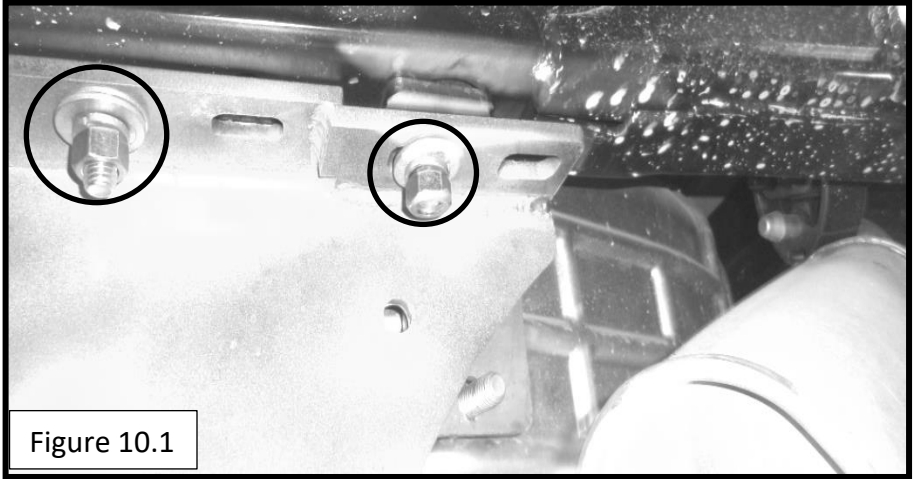


Figure 10.1

## Step 11

- Install one **1/2"- 13 x 2" Grade 8 Hex Bolt** with two **1/2" USS Flat Washers** through the side of the Super Hitch Side Plate and out through the slotted hole in the factory hitch plate as shown in **Figure 11.1**.

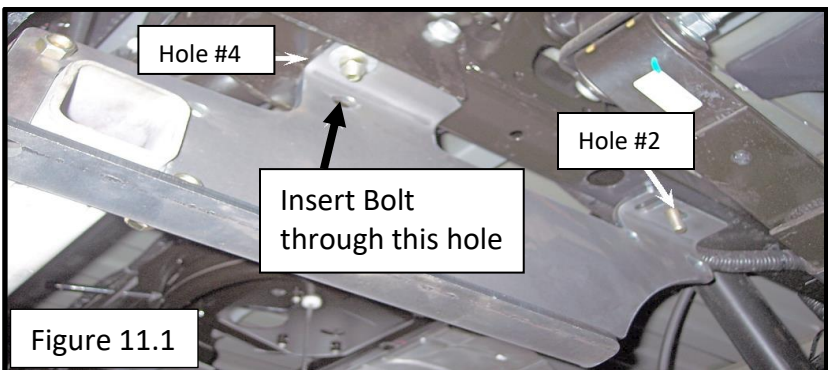
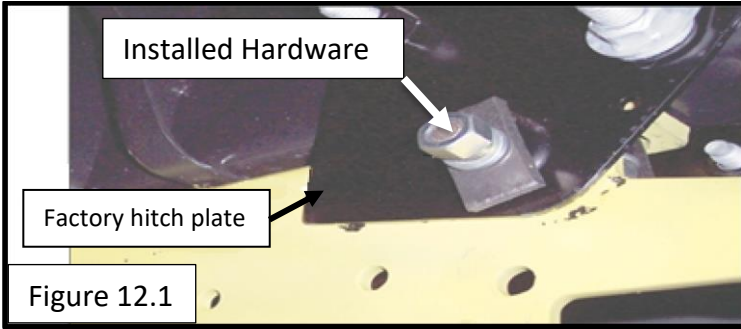


Figure 11.1

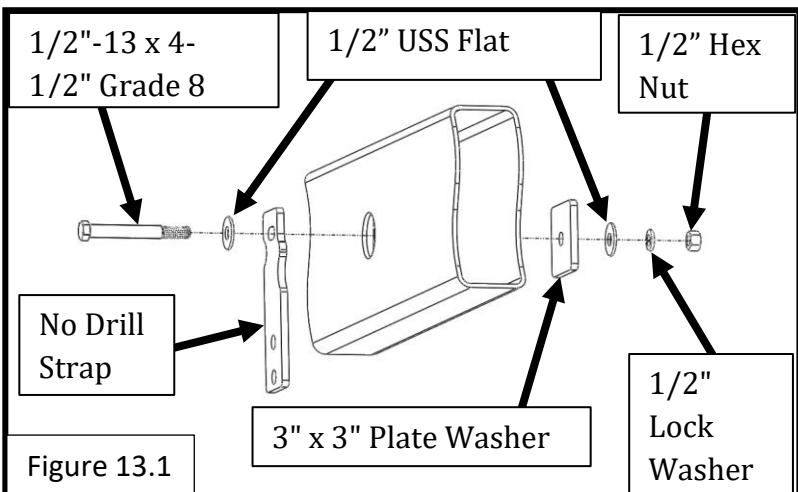
## Step 12

- Secure the bolt with one **1"x2" Plate Washer**, one **1/2" Lock Washer**, and one **1/2"-13 Grade 8 Hex Nut**. Leave the hardware loose. See **Figure 13.1**.



## Step 13

- The **No Drill Strap** will be installed between the frame and the spare tire heat shield. To install the **No Drill Strap**, align the slotted hole with the hole in the truck frame above the front of the **Side Plate**. Use one **1/2"-13 x 4-1/2" Grade 8 Hex Bolt** with one **1/2" USS Flat Washer** and insert it through the **No Drill Strap** and out the other side of the frame. See **Figure 13.1**.

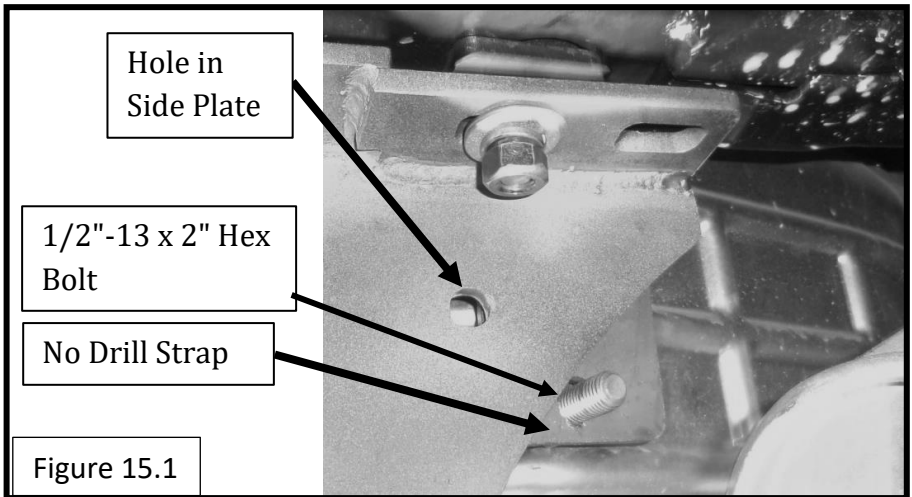


## Step 14

- Secure the **1/2"-13 x 4-1/2" Grade 8 Hex Bolt** holding the **No Drill Strap** in place with one **3" x 3" Plate Washer**, followed by one **1/2" USS Flat Washer**, one **1/2" Lock Washer** and one **1/2" Grade 8 Hex Nut**, hand tighten. See figure 13.1.

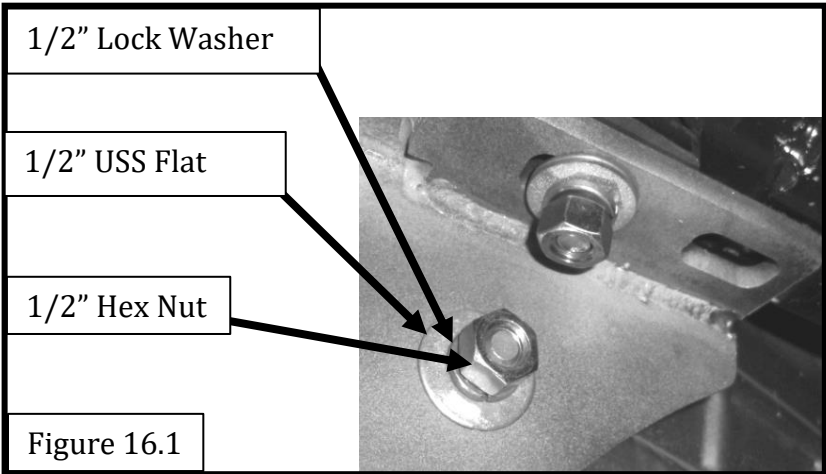
## Step 15

- Align the hole at the front of the **Side Plate** with one of the two lower holes located on the **No Drill Strap**. Place one **1/2"-13 x 2" Hex Bolt** with one **1/2" USS Flat Washer** through the **No Drill Strap** and out through the hole in the **Side Plate**. See **Figure 15.1**.



## Step 16

- Secure the **1/2"-13 x 2" Hex Bolt** with one **1/2" USS Flat Washer**, one **1/2" Lock Washer**, and one **1/2" Hex Nut**, hand tighten. See Figure 16.1.



## Step 17

- Repeat steps 3 through 16 for installation of the Driver Side Plate.

## Step 18

- With both **Side Plates** loosely installed, place the ends of the **Cross Tube** through the square cut outs in the **Side Plates**. It may be necessary to loosen the side plate hardware to be able to swing the side plates far enough apart.

## Step 19

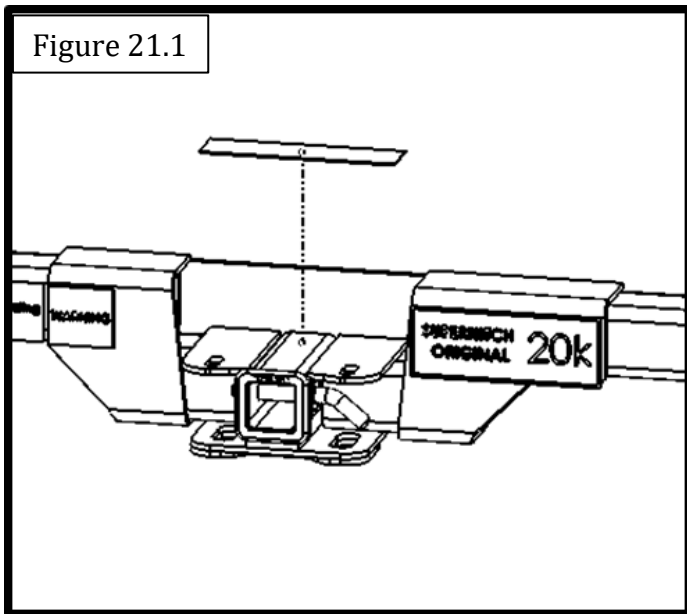
- Install four **1/2"-13 x 2" Hex Bolts** through each end of the **Cross Tube** and out through the **Side Plates**. The threads should be facing towards the outside of the vehicle.

## Step 20

- Lightly secure each **1/2"-13 x 2" Hex Bolt** with one **1/2" Lock Washer** and one **1/2" Hex Nut**. Leave the hardware hand tight.

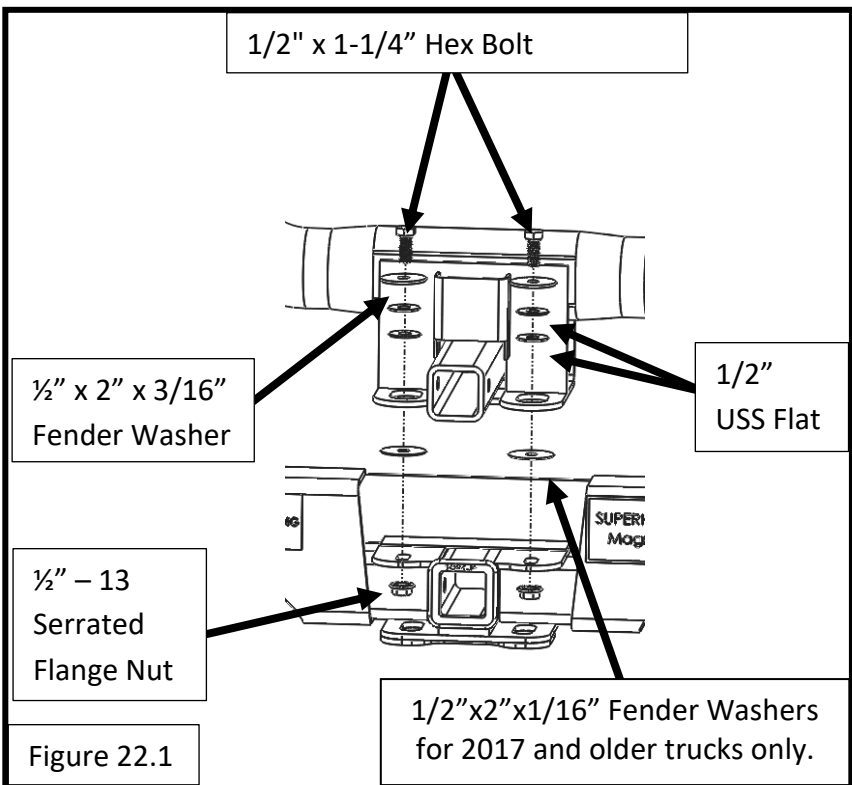
## Step 21

- For trucks of model year 2018 or newer, skip to Step 22.
- To maintain the proper distance between the factory receiver and Super Hitch receiver on 2017 or older trucks, a spacer will need to be installed on the Super Hitch Cross Tube.
- Using a damp cloth, wipe down the top of the Super Hitch receiver tube and adjacent plates to remove any dust or debris. Dry the surfaces before proceeding.
- Remove the backing from the **2" x 8-1/4" UHMW Strip** and apply it to the top of the Super Hitch Receiver, as far away from the receiver opening as possible. Press firmly on the UHMW to ensure a proper bond. See Figure 21.1



## Step 22

- For 2017 or older trucks only, insert a **1/2"x2" Fender Washer** between the **factory hitch chain plate** and the **Super Hitch Cross tube** on either side of the receiver. Align the washers with the **slotted holes** in the top of the Super Hitch Cross Tube. See Figure 21.1.
- Place one **1/2"x2" Thick Fender Washer** and two **1/2" USS Flat Washers** onto the threads of a **1/2"-13 x 1-1/2" Grade 5 Hex Bolt**.
- Insert the bolts with washers through the two large holes in the top of the **factory chain plate** and through the slotted holes in the **Super Hitch Cross Tube**.
- Secure each bolt with one **1/2"-13 Grade 5 Serrated Flange Nut**. Leave the hardware loose. See Figure 22.1.



### Step 23

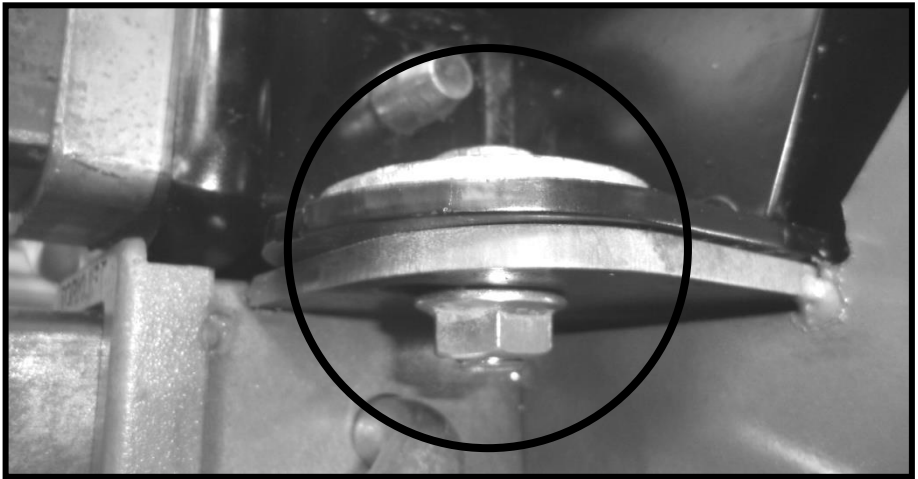
- Before tightening down the **1/2" x 1-1/4" Grade 5 Hex Bolts** holding the **Single Receiver Cross Tube** to the Factory Hitch, make sure the two hitch pin holes are aligned vertically, and the face plate of the **Single Receiver Cross Tube** is aligned horizontally with the Factory Hitch Receiver Face.

*Note: On some Dodge Factory Hitches, it may be necessary to grind the bottom of the Factory Hitch Receiver so it has a flush fit against the **Single Receiver Cross Tube**.*

### Step 24

- Tighten the **1/2" x 1-1/4" Grade 5 Hex Bolts** to **55 ft-lbs(74Nm)**. See figure 24.1 for reference.

figure 24.1



## Step 25

- Torque all **1/2"-13 x 2"** and **1/2"-13 x 2-1/2"** Hex Bolts to **75 ft-lbs(101nm)**.
- Torque the **1/2"-13 x 4-1/2"** Hex Bolts to **30 ft-lbs(40nm)**.
- Torque the Factory Hitch bolts to **60 ft-lbs(81nm)**.

!Warning!

Exceeding this Torque rating may result in a deformation of the factory frame.

## Step 26

- With the **Super Hitch** Installed, hold the Spare Tire shield against the frame and reinstall the screws removed in step 1. Last, reinstall the spare tire. Angle the tire up towards hitch when cranking.

SUPERHITCH INSTALLATION COMPLETED!

# YOUR TOWING EQUIPMENT

## HITCH BALLS

Select by gross trailer weight rating, mounting platform thickness, hole size and coupler socket size. Platform must be at least 3/8 inch thick. Hole must not exceed threaded shank diameter by more than 1/16 inch. Use lock washer. Tighten per instructions. When tightened, shank must protrude beyond bottom of nut. Gross trailer weight rating and ball diameter are marked on Hitch balls.

## TRAILER COUPLERS

The coupler socket should be smooth, clean and lightly lubricated. Tighten or adjust per coupler manufacturer's instructions.

## SAFETY CHAINS

Connect safety chains properly EVERY TIME YOU TOW. Cross chains under coupler. Attach securely to the hitch or tow vehicle so they can't bounce loose. Leave only enough slack to permit full turning. Too much slack may prevent chains from maintaining control if other connections separate. Don't let chains drag on the road.

## TRAILER LIGHTS, TURN SIGNALS, ELECTRIC BRAKES AND BREAK AWAY SWITCH CONNECTIONS

Make these safety-critical connections EVERY TIME YOU TOW, no matter how short the trip. Check operation, including electric brake manual control, before getting on the road.

## SWAY CONTROLS

Sway controls can lessen the effects of sudden maneuvers, wind gusts and buffeting caused by other vehicles. We recommend them for trailers with large surface areas, such as travel trailers. Adjustable friction models can help control trailers with low tongue weight percentage.

## OTHER USEFUL EQUIPMENT

AIR SPRINGS, AIR SHOCKS or HELPER SPRINGS are useful for some hitch applications. A TRANSMISSION COOLER may be necessary for heavy towing. Many states require TOWING MIRRORS on both sides.

## TIRE INFLATION

Check often. Follow tow vehicle and trailer manufacturer's recommendations. Improper tire inflation can cause trailer sway.

**NO PASSENGERS IN TRAILERS: NEVER allow people in trailers while towing, under any circumstances.**

## 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 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 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.



## Frame Mounted Tie Downs

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.

VISIT [WWW.TORKLIFT.COM](http://WWW.TORKLIFT.COM) FOR MORE INFORMATION

### Original SuperHitch & SuperHitch Magnum

High strength extended hitch system engineered for safely towing all types of trailers behind your truck and camper. With a max towing capacity of 14,000 lbs.(6350Kg. with an extension\* , (17,000 lbs.(7711Kg) to 20,000 lbs.(9071Kg) without\*) the Original SuperHitch and Superhitch Magnum are rated the strongest in the industry.

CONTACT YOUR LOCAL DEALER FOR MORE DETAILS

# Torklift International Limited Lifetime Warranty Information

322 N. Railroad Ave. Kent, WA 98032

Torklift will require proof of purchase to register, with pictures of any defective product before issuing a replacement. Torklift will not register any



product without proof of purchase, which can be faxed, scanned, emailed, or mailed to the information provided below. Torklift warrants it's hitches, custom hitch receivers, frame mounted tie downs, turnbuckles, and accessories (excluding wire harnesses which carry a 90 day warranty) from date of purchase against defects in material and workmanship under normal



use and service for the ownership life of the original consumer purchaser. ALL COMMERCIAL APPLICATIONS ARE WARRANTED FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION/SERVICE. Torklift will replace FREE OF CHARGE any part which proves defective in material or workmanship when presented to Torklift, TRANSPORTATION CHARGES PREPAID by purchaser, at the address above. THIS WARRANTY IS LIMITED TO DEFECTIVE PARTS REPLACEMENT ONLY. LABOR CHARGES AND/OR DAMAGE INCURRED IN INSTALLATION OR REPLACEMENT, AS WELL AS INCIDENTAL AND CONSEQUENTIAL DAMAGES CONNECTED THEREWITH ARE EXCLUDED. This warranty does not include the finish or paint on our products. Rusting, cracking or peeling of the finish is also excluded. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Any damage to Torklift products as a result of misuse, abuse, neglect, accident, improper installation or any use violative of

instructions furnished by Torklift or WHEN USED IN ANY COMMERCIAL APPLICATION WILL VOID THE WARRANTY. This warranty gives you specific legal rights, and you may also have rights which vary from state to state. With warranty service, you may be able to go to a small claims court, a state court or a federal district court.

322 N. Railroad Ave. Kent, WA 98032

Phone (800) 246-8132 Fax (253) 854-8003

Or visit our website: [www.TorkLift.com](http://www.TorkLift.com)

Dear Valued Customer,

Thank you for making TorkLift your choice for truck, camper packages and accessories for your vehicle. By choosing TorkLift products, you have chosen a company that has been serving the RV industry for nearly 40 years and whose name has become synonymous with strength, quality and advanced design and installation.

Please take a few moments of your time to complete the Product Registration Warranty Card on the next page. When registering your newly purchased TorkLift products, you can be assured that your contact information is secure and that you and your product are getting the attention and respect that you deserve.

Thank you again for choosing TorkLift quality products.

Register for your lifetime warranty and receive a free Torklift International gift.

To Fax: Send copies of the questionnaire, warranty card and receipt to  
253-854-8003

To E-mail: Send copies of the questionnaire, warranty card and receipt to  
[warranty@torklift.com](mailto:warranty@torklift.com)

To Mail: Send to Torklift International 322 N Railroad Ave. Kent, WA 98032



## OFFICIAL WARRANTY REGISTRATION CARD

PLEASE FILL OUT THIS FORM COMPLETELY AND RETURN TO TORKLIFT WITHIN

### 1. PART(S) PURCHASED

TODAY'S DATE: \_\_\_\_\_

PART #: \_\_\_\_\_ PART #: \_\_\_\_\_

PART #: \_\_\_\_\_ PART #: \_\_\_\_\_

PART #: \_\_\_\_\_ PART #: \_\_\_\_\_

### 2. PURCHASER INFORMATION

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP / POSTAL CODE: \_\_\_\_\_

PHONE: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ EMAIL: \_\_\_\_\_

### 3. TRUCK INFORMATION

YEAR: \_\_\_\_\_ MAKE: \_\_\_\_\_

MODEL: \_\_\_\_\_ BED LENGTH: \_\_\_\_\_

### 4. CAMPER INFORMATION

YEAR: \_\_\_\_\_ MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

### 5. DEALER INFORMATION

PURCHASED FROM: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP / POSTAL: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_ OWNER ABOVE DEALER ANOTHER DEALER

IF ANOTHER DEALER, WHO: \_\_\_\_\_

30 DAYS OF PURCHASE ACCOMPANIED BY A COPY OF YOUR ORIGINAL RECEIPT