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ecoHITCH Designed Specifically For Your **Green Vehicle**

Installation Instructions

Toyota Sienna
X7422S

Stainless Steel Receiver

Trailer Weight Rating 3,500 lbs

Tongue Weight Rating 525 lbs

Torklift Central

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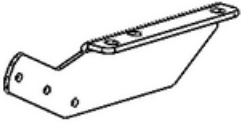
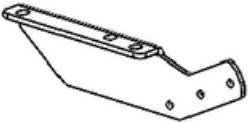


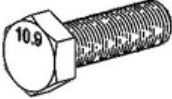






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Parts Inventory

Description	Image	Item #	Qty.
X7422 Receiver Hitch		X7422S-A1	1
Passenger Side Support Bracket		X7422S-P1-P	1
Drivers Side Support Bracket		X7422S-P1-D	1
M12 Flat Washer		20003	6
M12 Split Lock Washer		20004	6
M12-1.25 x 40 mm Class 10.9 Hex Bolt		3661	6
3/8"-16 Nut Grade 8		9959	6
3/8"-16 x 1-1/2" Grade 8 Hex Bolt		3312	6
3/8" Split Lock Washer		6003	6
3/8" SAE Flat Washer		14139	12

Step 1:

- Chock the front wheels and lift the rear of the vehicle high enough to access the underside of the vehicle.
- Lift the rear hatch. On each side of the vehicle, remove the two screws on the inside of the taillight, and the two screws directly below them in the body panel. See Figure 1.1.

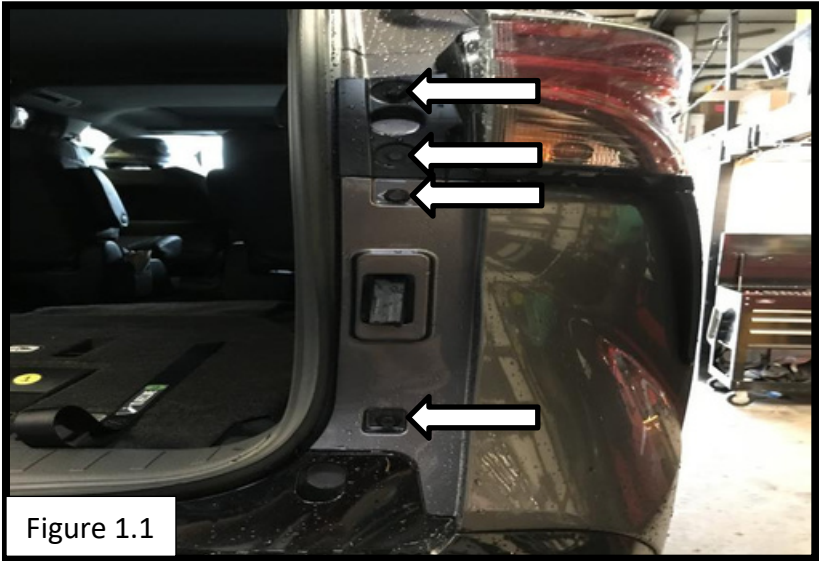


Figure 1.1

- Remove both taillight assemblies by pushing them towards the rear of the vehicle. Make sure not to drop the assemblies or let them hang from the wiring harnesses.
- Remove the three electrical plugs from each taillight assembly starting with the smallest one first. Using a small flat bladed screwdriver may be needed See figure 1.2.

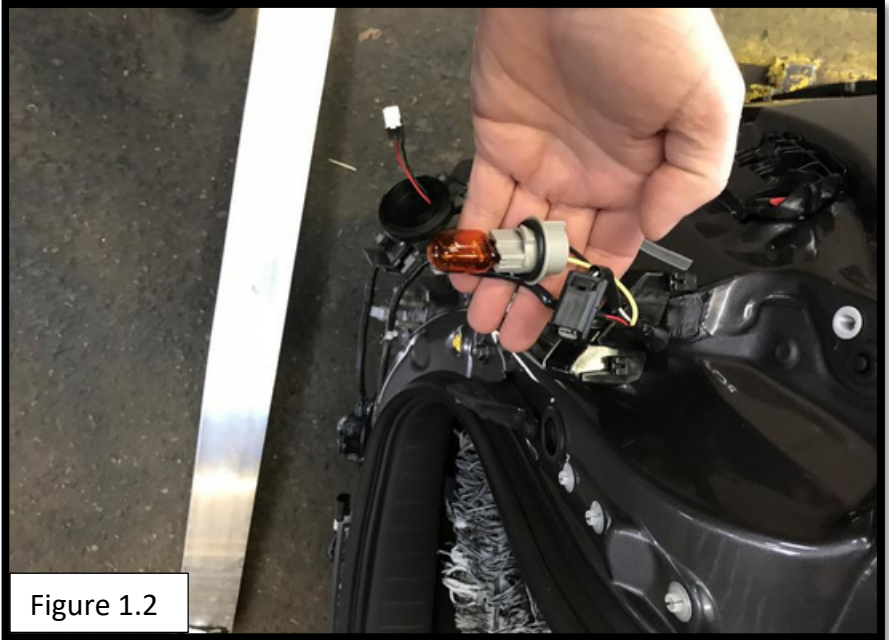


Figure 1.2

Step 2:

- Remove the push in clips in the back of the wheel openings on both sides of the vehicle. See figure 2.1.
- Behind the rear wheels on the front side of the mud guards, remove two screws on the driver side and one screw on the passenger side. See figure 2.2.
- Unclip the plastic panel behind the driver side rear wheel by removing the four push pin clips on the rear under panel. See figure 2.3.



Figure 2.1 – Passenger side shown.

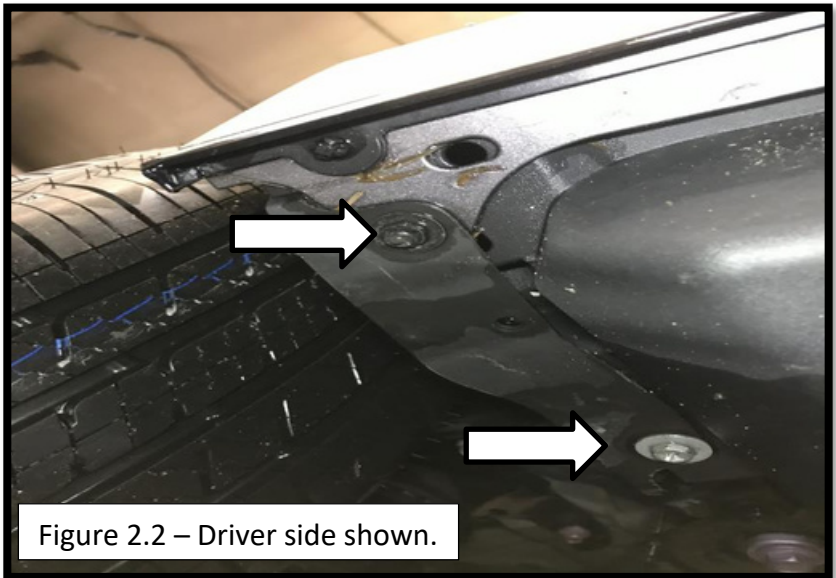


Figure 2.2 – Driver side shown.

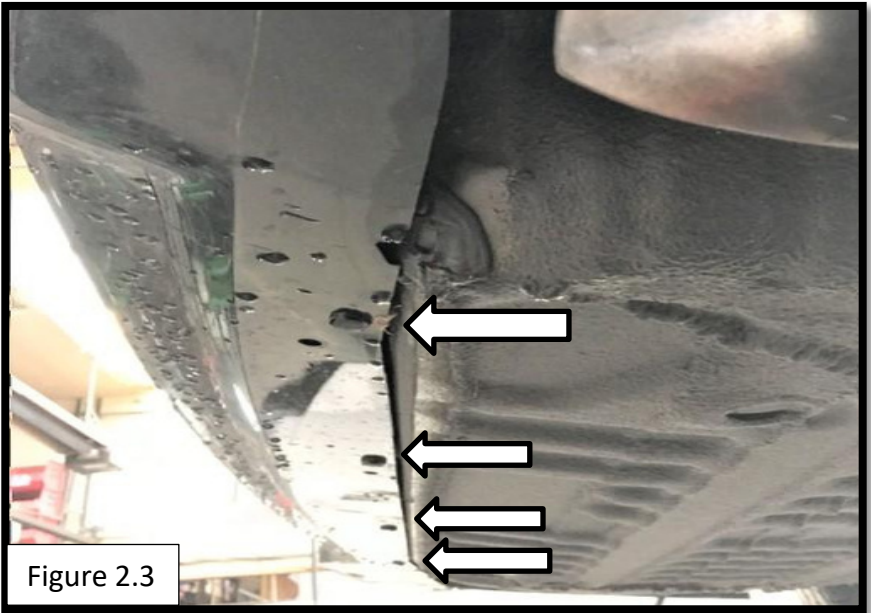


Figure 2.3

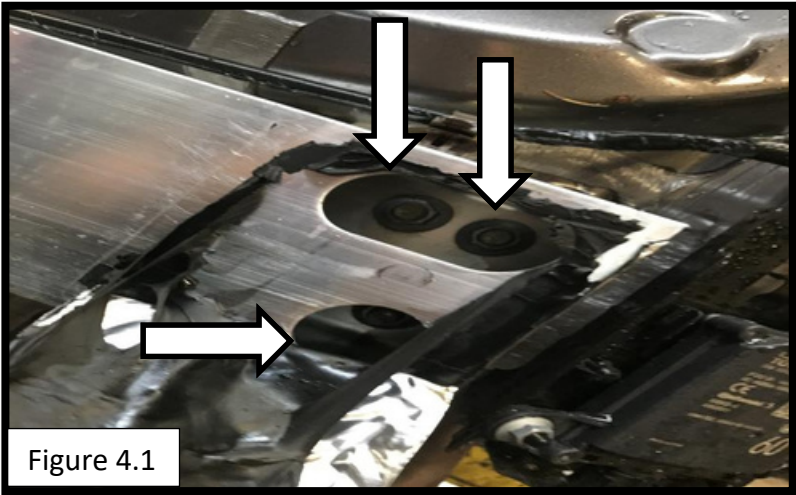
Step 3:

- With the help of an assistant, remove the rear bumper cover. start by pulling outwards and back on the outer ends working towards the center of the vehicle. Disconnect any wiring harness connectors attached to the cover. Set the bumper in a safe place where a cut out can be made for the receiver.

*Be careful not to damage the bumper finish.*_____

Step 4:

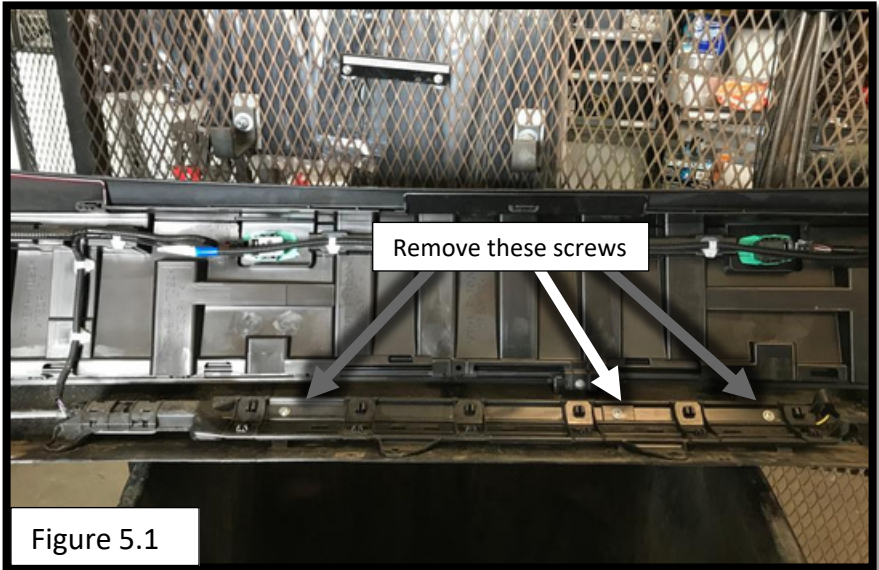
- Remove any wiring attached to the factory cross member.
- Peel back the metal tape from the ends of the cross member to access its retaining nuts.
- Remove nuts and the cross member. See figure 4.1.



Step 5:

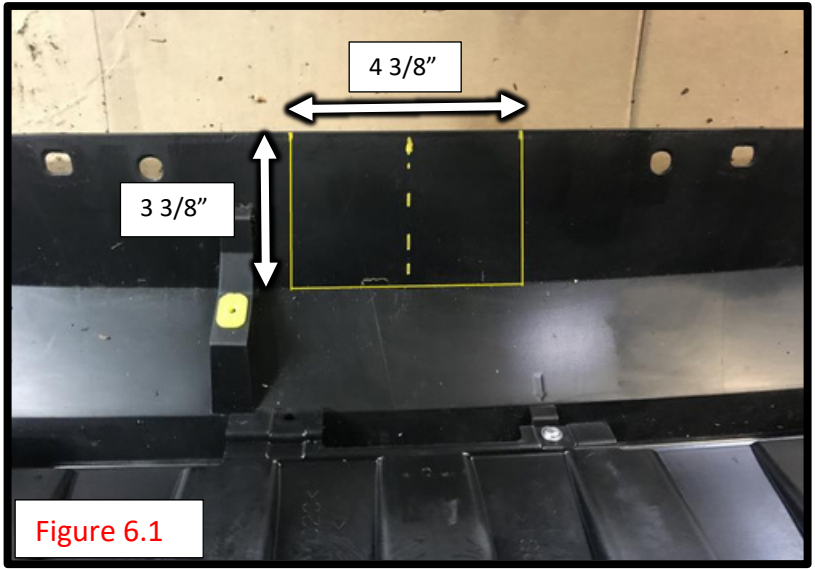
Note: Skip to step 6 if you do not have a kick sensor on the vehicle.

- Remove the kick sensor plastic strip by removing the 3 Phillips head screws holding it to the bumper.



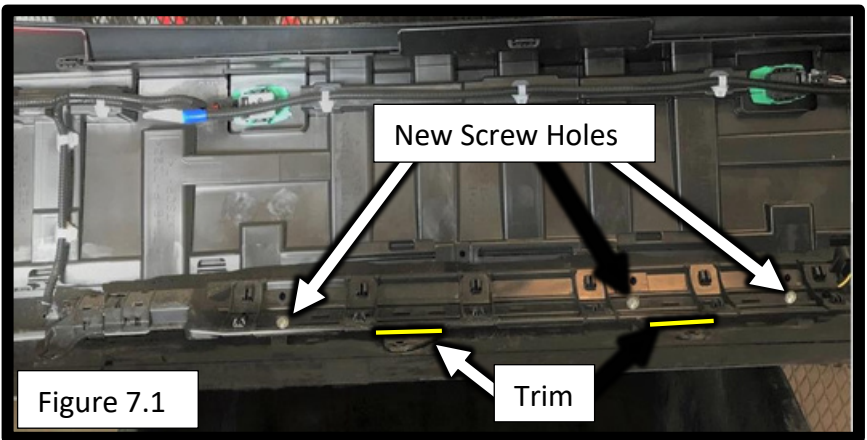
Step 6:

- Measure and mark the centerline of the bumper cover on the bottom of panel.
- Mark a centered section to be cut out that is approximately 3-3/8" tall and 4-3/8" wide. The top of the cut line should be right at the panel body seam line on the bottom of the bumper cover. See figure 6.1.



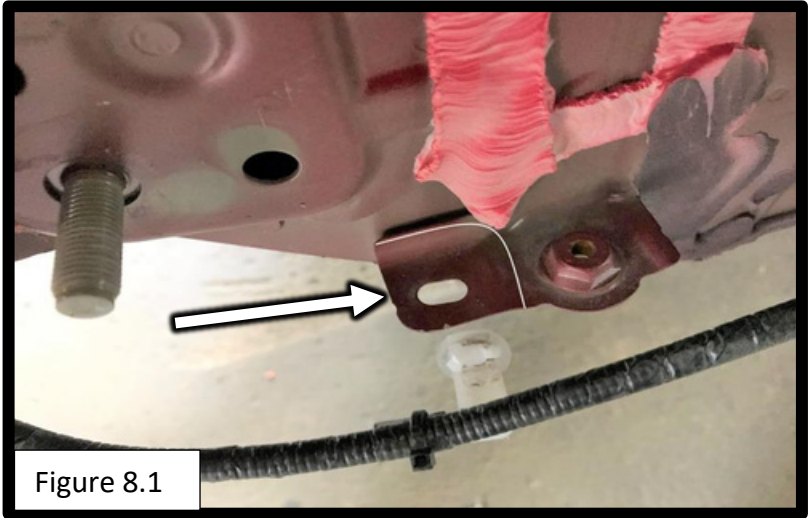
Step 7:

- Reinstall the sensor removed in step 5 moving it up on the rear bumper cover approximately 2" higher than its previous position. Trim off tabs at bottom of sensor mounting plate where indicated. See Figure 7.1. Use the screws to make new holes in the plastic sensor mounting plate. Reinstall the mounting plate into existing the plastic insert nuts. See figure 7.1.



Step 8:

- On some models it may be necessary to trim the sheet metal angle tab on the driver's side using tin snips or a hack saw. See figure 8.1.



Step 9:

- Place the hitch over the studs in the rear of the vehicle. Begin to thread on the OEM nuts, leaving them loose. See figure 9.1.
- Install the driver and passenger side Support Brackets to the bottom of the vehicle frame. Install one 12mm-1.25 x 40mm bolt with one lock washer and one flat washer into each hole. There are 3 holes per side. See figure 9.2.

- Insert three 3/8"-16 bolts with one 3/8" flat washer on each bolt through the hitch side plate holes then through the three support bracket holes on the passenger and driver sides. The threads need to be facing towards the outside of the vehicle. Install a 3/8" flat washer, 3/8" split lock washer then a 3/8"-16 nut on each of the 3/8" bolts. Repeat on the opposite side. See Figure 9.1.
- Center the hitch on the studs and torque the OEM nuts and 3/8" fasteners to 45 ft lb. Torque the 12mm-1.25 bolts to 65 ft lb.

Important Note: Instructions featured online do NOT show detailed drawings or figures referenced in the instructions. Complete instructions with more detailed drawings are available in the kit upon purchase.

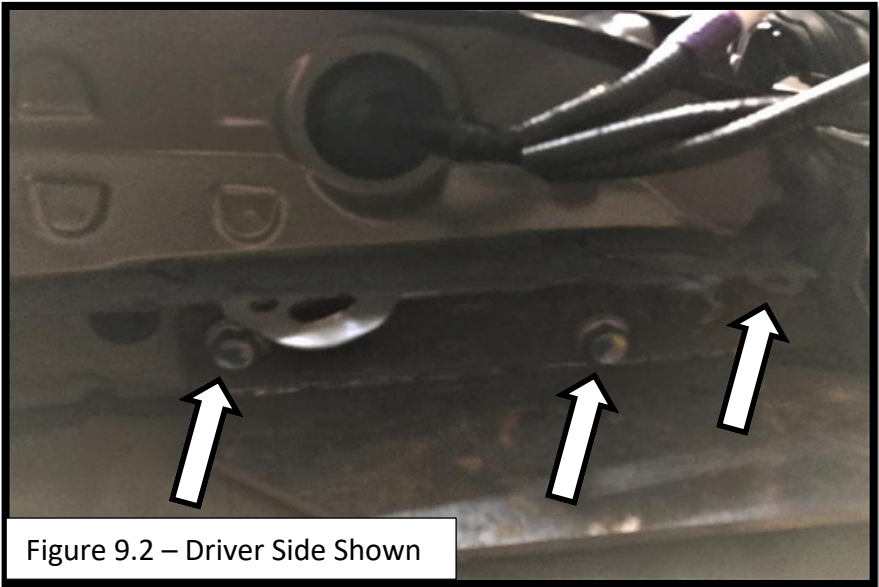


Figure 9.2 – Driver Side Shown

Step 10:

- The driver side rear plastic panel removed on step 2 can either be left off of the vehicle or trimmed for drivers side plate clearance before reinstallation. If cutting the panel, the measurements are 7-½" x 2". See Figure 10.1.

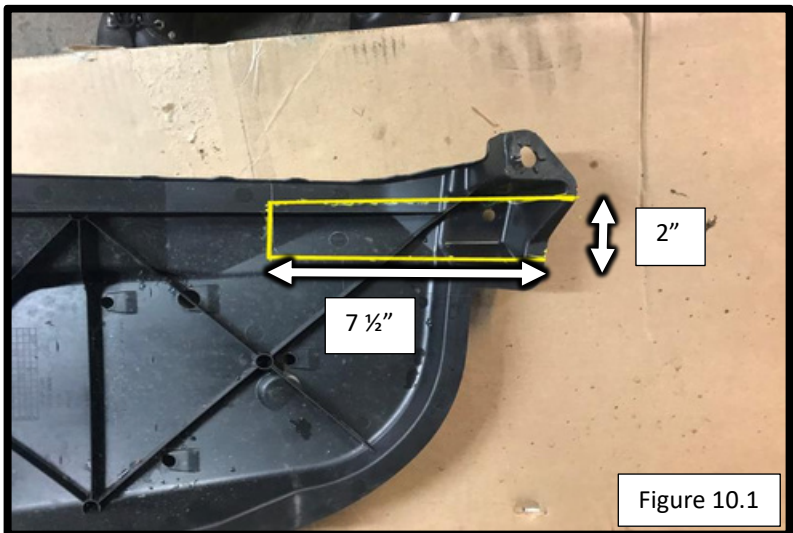


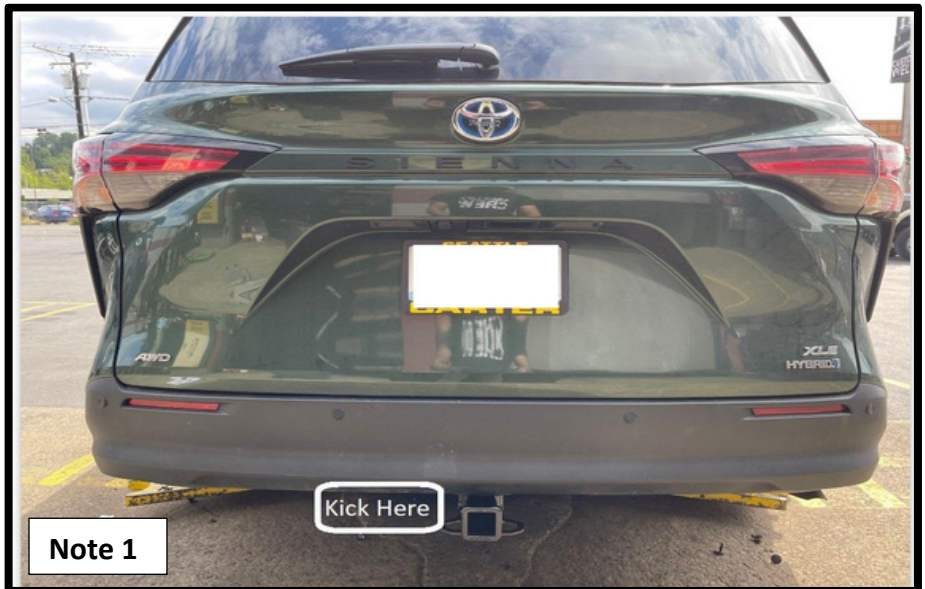
Figure 10.1

Step 11:

- Re-install the bumper panel by snapping it back into place. Reinstall all other components in reverse order of disassembly starting at step 3. The cross member will not be reinstalled. Verify all of the rear lights work and the bumper cover is securely snapped back into place.
- If present, the kick sensor should be functional on the passenger side of the car.

Note:

Installation of this hitch may change the characteristics of how the kick sensor is triggered. Our testing has confirmed the kick sensor rear hatch release will still function but the optimal position for triggering the sensor may change and potentially be a smaller area. Our testing has proven that in most cases the optimal position is off to the drivers side of the hitch receiver and a little higher than previously (See **Note 1**).



Installation is complete.

WARRANTY/DISCLAIMER INFORMATION

Torklift Central requires proof of purchase for warranty claim registration, with pictures of any defective product before issuing a replacement. Torklift will not accept claims on any product without proof of purchase, which can be faxed, scanned, emailed or mailed to the information provided below. Torklift Central warrants its hitches, custom hitch receivers and accessories (excluding electrical wire harnesses which carry a warranty from their specified manufacturer) from date of purchase against defects in material and workmanship under normal use and service for the ownership life of the original consumer purchaser. Torklift Central will replace free of charge any part that proves defective in material or workmanship when presented to Torklift Central, transportation charges prepaid by purchaser, at the address below.

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 normal wear and tear or the finish and paint. 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 Central products as a result of misuse, abuse, neglect, accident, improper installation or any use violative of instructions furnished by Torklift Central 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.

Although Torklift Central trailer hitches are both tested and rated for towing within the specific capacity label found on each trailer hitch. Torklift Central assumes no liability for vehicle manufacturers warranty due to the use of a Torklift Central trailer hitch being used for towing behind any vehicle or using the trailer hitch in a manner that it was not designed for. Although this specific trailer hitch has a load rating, which includes trailer tongue weight, and a trailer weight carrying capacity, Torklift Central is not responsible for the voiding of any warranty on any vehicle due to factory towing limitations. All vehicle warranties are the sole property and responsibility of the owner of the vehicle that the Torklift Central trailer hitch is installed upon. Torklift Central does not endorse towing behind any vehicle if the vehicles manufacturer states that towing is not recommended. Check your vehicle's owner's manual for the proper tow rating of your vehicle.

ADDRESS:

315 Central Ave N. Kent, WA 98032

WARNING

Your vehicle may have a lower tow rating than this trailer hitch. If your vehicle's tow rating is less than the rated towing capacity on your Torklift Central trailer hitch, your trailer hitch capacity is limited to your vehicle's factory rated towing capacity.

DANGER Never exceed your vehicle's

manufacturer's

recommended towing capacity which may be a lower rating than this trailer hitch