



Installation and Assembly of the TC460 Carrier





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Tools Required for Assembly:

- 3/4" Wrench
- 7/16" Wrench
- Ratchet with 3/4" & 7/16" Sockets
- Never Seize Paste
- Zip Ties

NOTE: Always wear appropriate safety equipment (safety glasses, gloves, etc.) when performing component installations or repairs.

Supplied with the TC460 Carrier Kit:

- Carrier Platform Assembly
- Carrier Ramp Assembly
- (2) Carrier Platform Support Tubes
- (2) 2-1/2" Receivers (if required)
- Mounting & Assembly Hardware Kit:
 - (2) 5/8" Dia. Hitch Pins with Cotter Pins
 - (4) 1/2"-13 x 4 3/4" Lg Gr.8 Hex Cap Bolts
 - (2) 1/2"-13 x 3 3/4" Lg Gr.8 Hex Cap Bolts
 - (12) 1/2" Flat Washers
 - (6) 1/2"-13 Lock Nuts Gr.8
 - (2) 1/4"-20 x 1" Lg Hex Cap Screws
 - (4) 1/4" Flat Washers
 - (2) 1/4"-20 Lock Nuts

IMPORTANT: To safely handle, install, and assemble the TC460 Carrier will require at least (2) two people.

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UNPACK THE SHIPPING PALLET:



The carrier components are arranged on the shipping pallet as shown above. The position of the components on the pallet does NOT represent their final assembly position.

* If supplied

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RECEIVER INSTALLATION (if supplied with TC460 Carrier):

It is recommended the truck to which the carrier will be installed, and the complete TC460 carrier kit be delivered to the fabrication shop performing the receiver installation.

Installation of the receivers must be performed by a certified welder. Keep in mind that the overall weight of the TC460 carrier combined with the weight of the TR460 spreader may be as much 1000 lbs. In addition, driving over rough, bumpy or uneven roads at highway speeds will further stress the welded receivers. Make sure to mount the receivers in a sturdy manner.

To ensure proper fitment and functionality of the remaining carrier components, make sure the following dimensional requirements are carefully adhered to.

Using a certified welder / fabricator, install the receivers per the following:

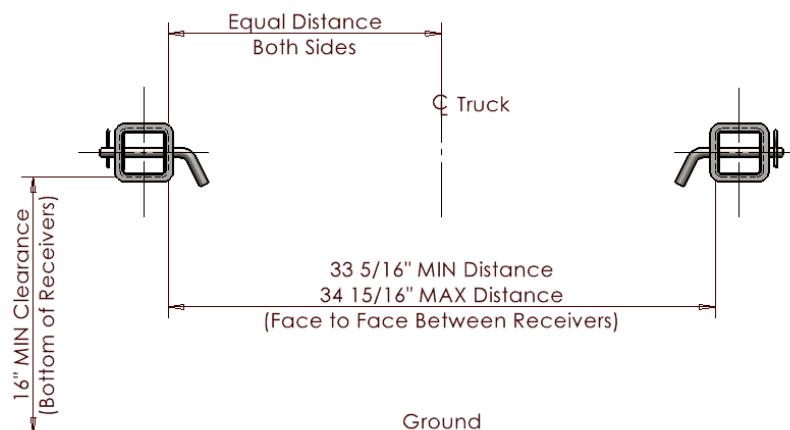
STEP 1:

Locate the (2) two receivers (PN TC3902) supplied with the TC460 carrier kit.



STEP 2:

Locate the receivers on the vehicle. The TC460 carrier receivers should be centered on the hitch or frame of the truck with a minimum distance of $33 \frac{5}{16}$ " to a maximum distance of $34 \frac{15}{16}$ " between the faces of the $2 \frac{1}{2}$ " square portion of the receivers. A minimum height of 16" from the ground to the bottom of the receivers should be maintained.

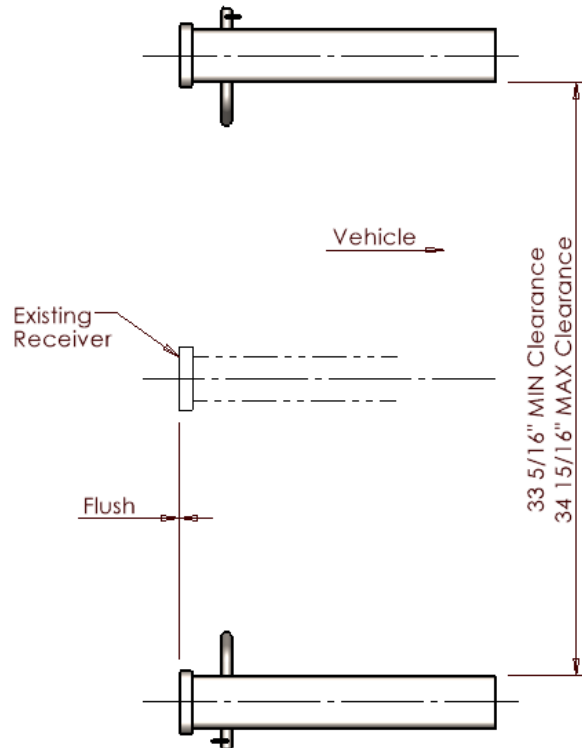


NOTE: Make sure receivers are oriented with the hitch pin holes horizontal and parallel to the ground as shown above. Receivers should be even and level to each other.

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STEP 2: (cont.)

The receivers should extend out from the rear of the vehicle to be even or flush with the end of the existing receiver previously installed on the vehicle.



NOTE: If no existing receiver is installed on the vehicle, the TC460 receivers should extend out only far enough to easily access the hitch pin holes.

STEP 3:

Weld Receivers. All welding should be performed by a certified welder to carry a load equal to 2000 lbs.

Turfware, Inc. does NOT assume liability for the mounting of receivers unto the customer's vehicle.

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TC460 CARRIER INSTALLATION & ASSEMBLY:

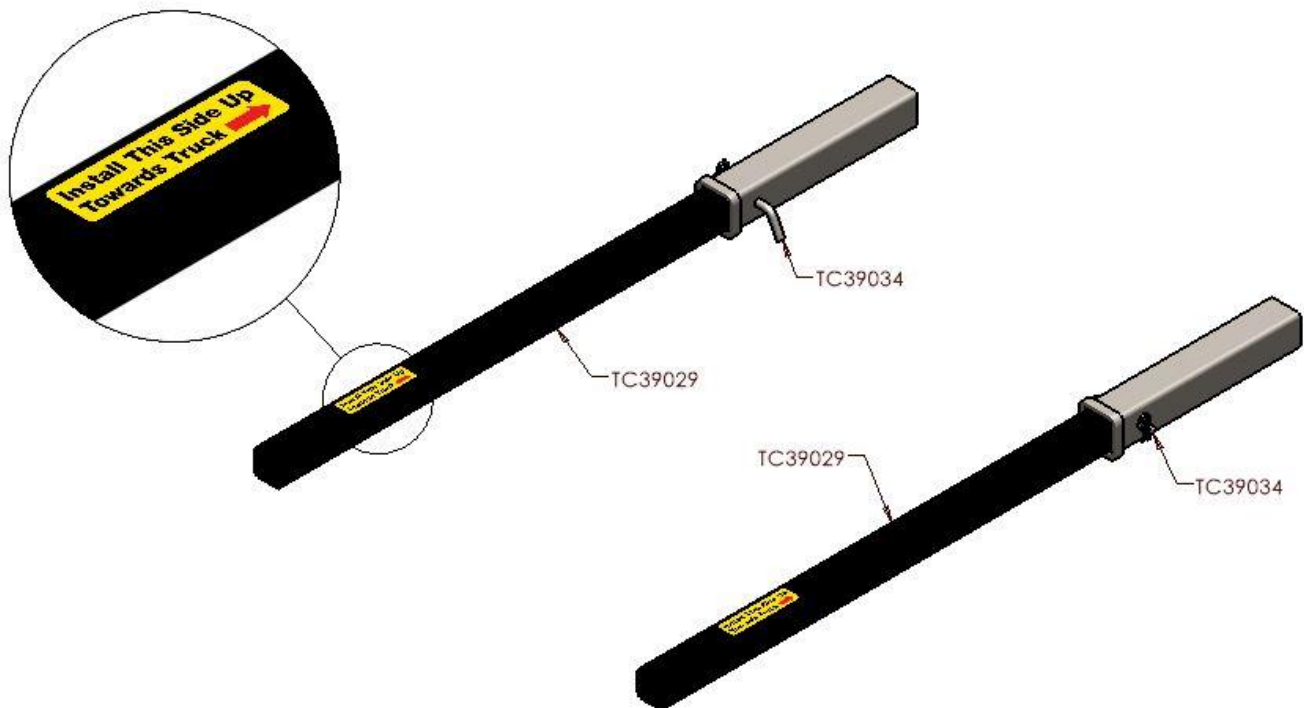
Due to the weight and bulkiness of the carrier components, the assembly and installation process will require a minimum of (2) people.

CARRIER PLATFORM

STEP 1:

Install platform support tubes (PN TC39029) to receivers installed on vehicle. Pin in place using the hitch pins (PN TC39034) included in the hardware kit.

Apply never seize paste (supplied with the carrier) to the ends of the support tubes prior to insertion into the receivers. This will aid in removal of the tubes later and help to prevent rust development at wear points.

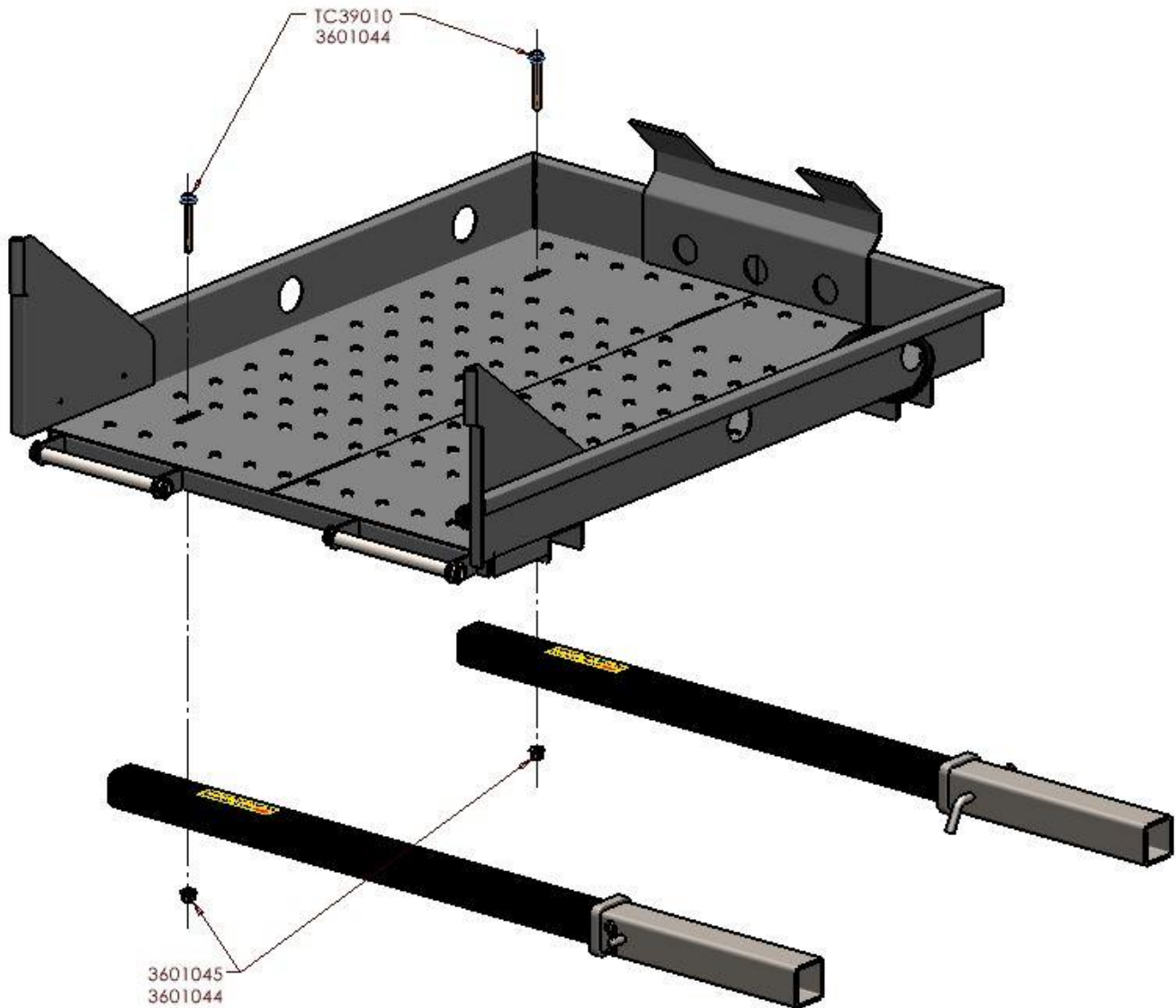


NOTE: Make sure the carrier support tubes are oriented relative to the vehicle as indicated on the decals on each component.

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STEP 2:

Position the carrier platform on the installed support tubes and align the slots in the platform to the holes in the top of the tubes. Install the 1/2"-13 x 3 3/4" long bolts (PN TC39010) with 1/2" flat washers (PN 3601044) from the top of the platform down through the support tubes. Loosely attach the 1/2"-13 locknuts (PN 3601045) with 1/2" flat washers to the underside of the support tubes (see below).

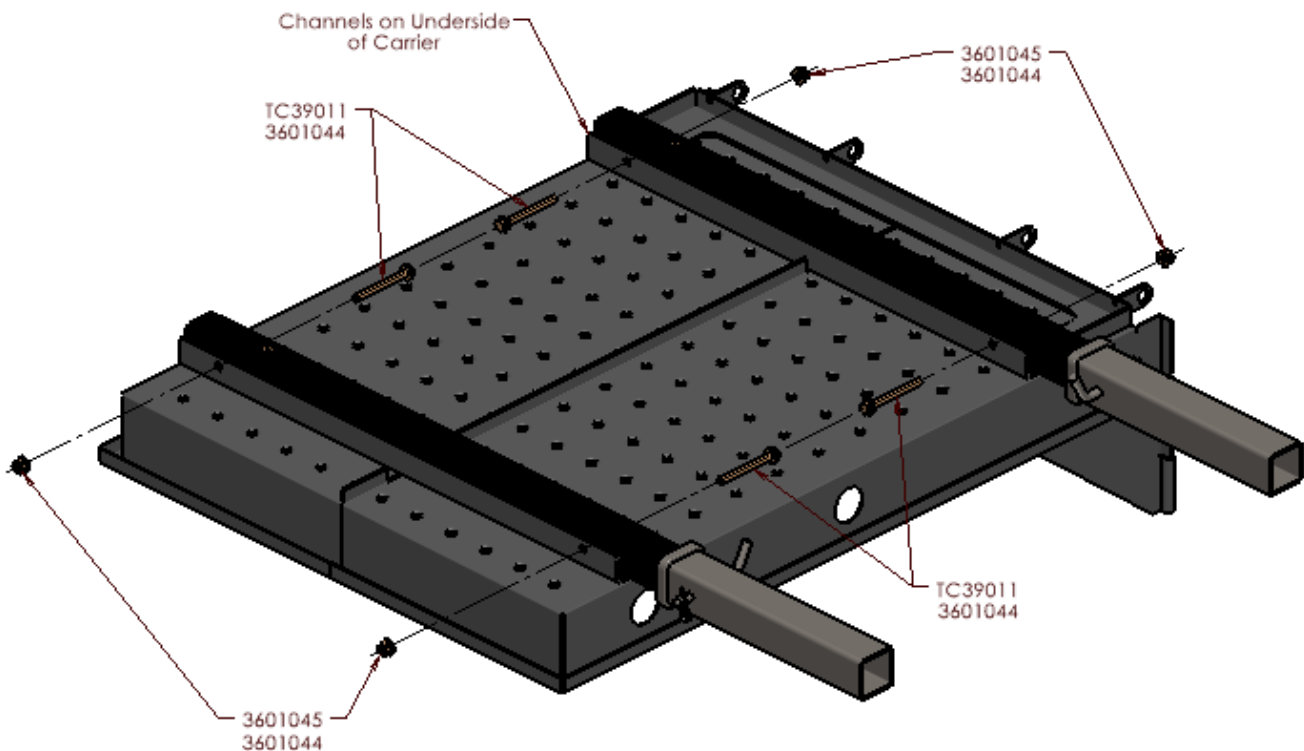


NOTE: Apply never seize paste to all nuts and bolts prior to assembly.

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STEP 3:

Install the remaining 1/2"-13 x 4 3/4" long bolts (PN TC39011) with 1/2" flat washers (PN 3601044) through the channels on the underside on the platform and the carrier support tubes. Loosely attach the 1/2"-13 locknuts (PN 3601045) with 1/2" flat washers (see below).



Underside of Carrier Shown
(Some Components Removed for View Clarity)

NOTE: Apply never seize paste to all nuts and bolts prior to assembly.

STEP 4:

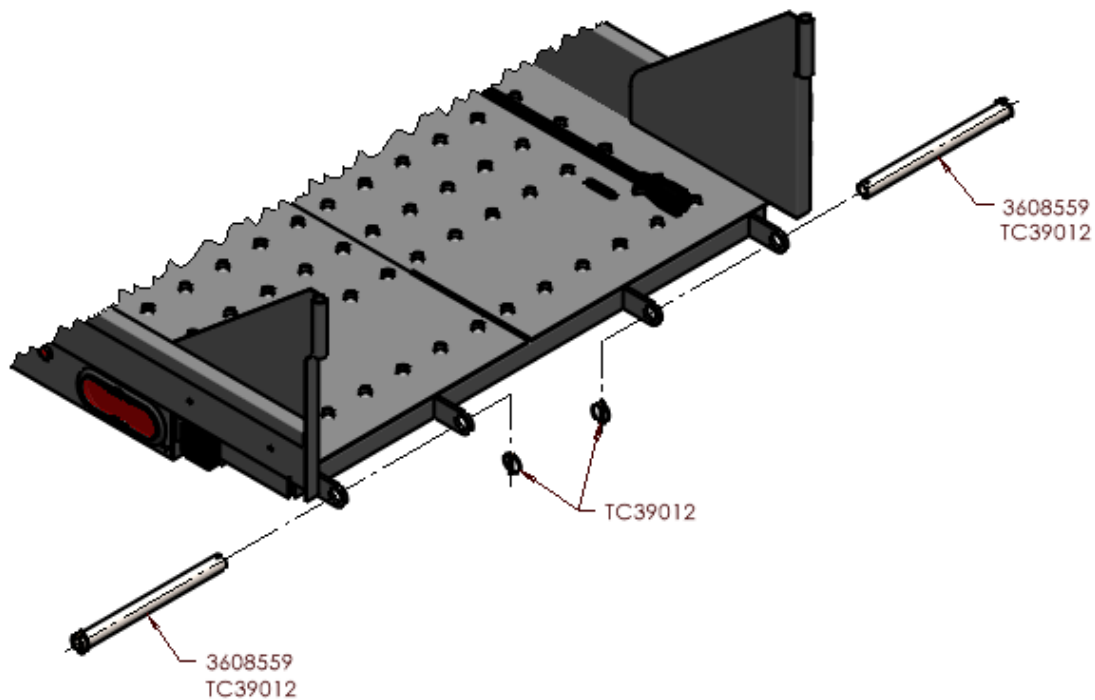
Using a 3/4" wrench and ratchet with 3/4" socket, fully tighten all bolts and nuts.

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CARRIER RAMP

STEP 4:

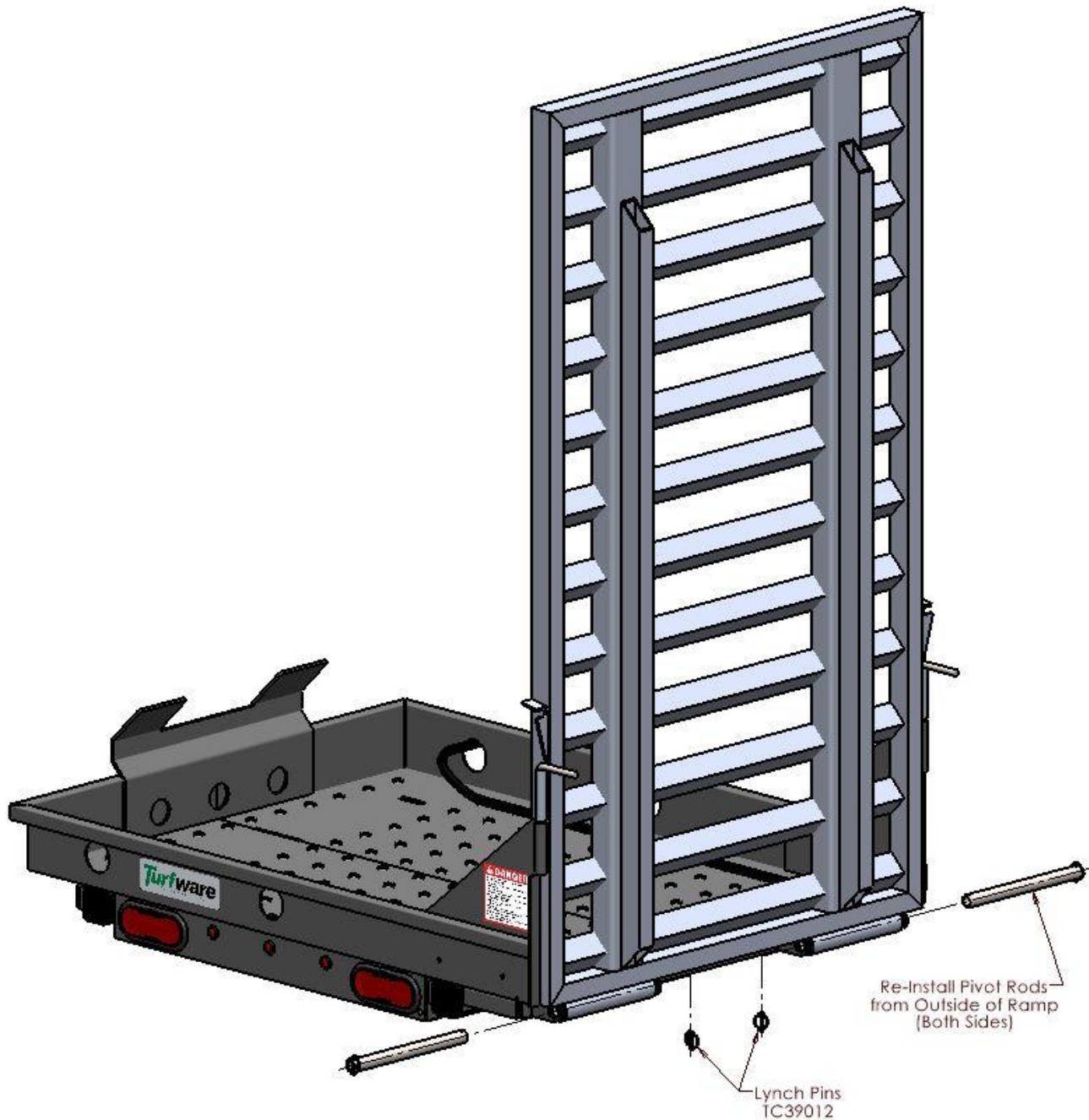
Remove the carrier ramp pivot rods (PN 3608559) and lynch pins (PN TC39012) and set them aside for later use.



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STEP 5:

Install the carrier ramp. Align the bushings in the ramp hinge with the eye hooks on the carrier platform.

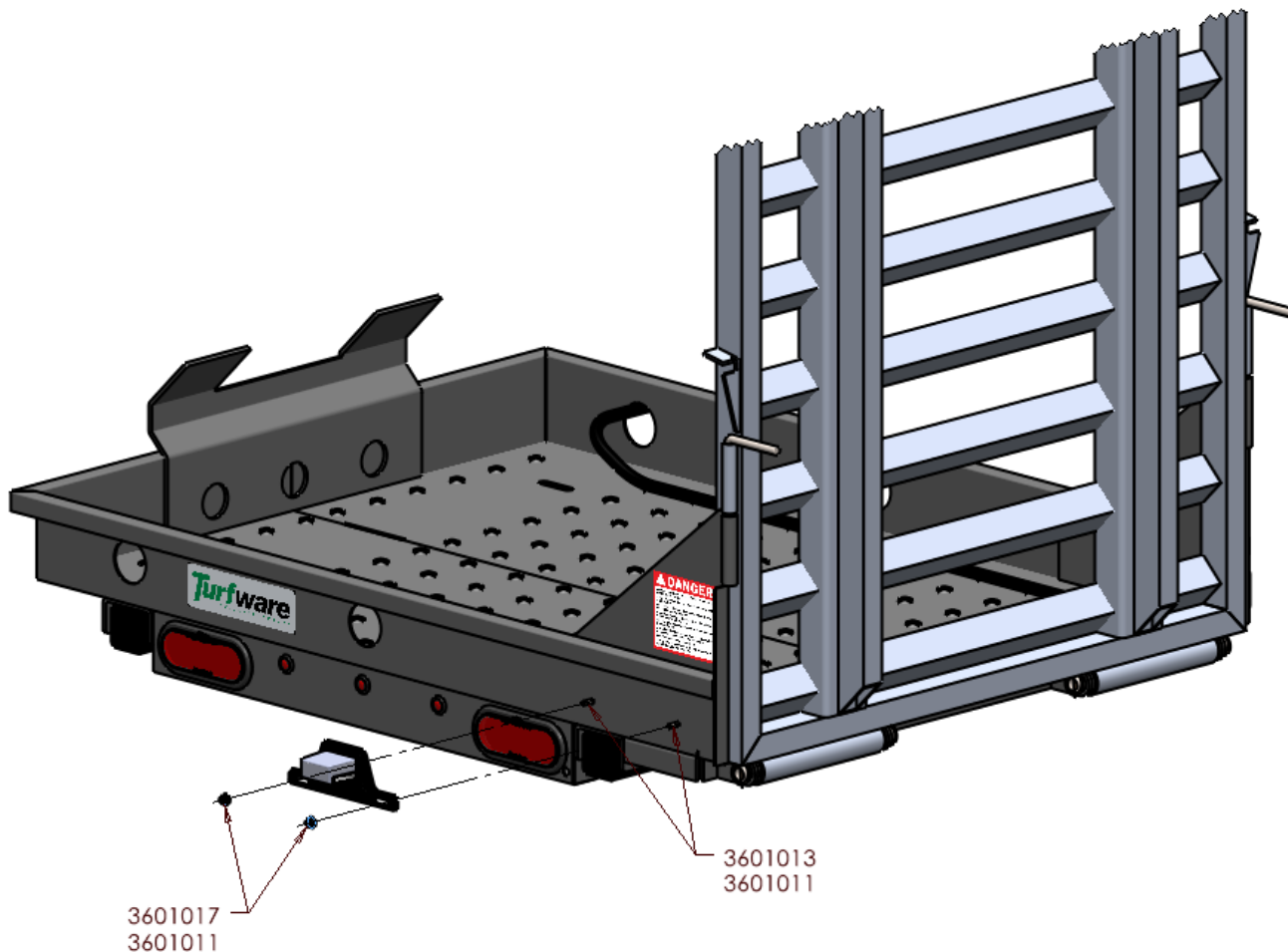


CAUTION: Make sure the ramp bushings are properly aligned to the platform eye hooks prior to “tapping” the pivot rods into place. Misalignment may cause damage to the nylon bushings during re-installation of the rods.

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STEP 6:

Mount the pre-wired license plate bracket to the rear side panel of the carrier platform. The platform is pre-drilled for mounting the bracket using the 1/4"-20 x 1" long bolts (PN 3601013), 1/4" flat washers (PN 3601011) and 1/4"-20 locknuts (PN 3601017) supplied in the carrier hardware kit.



Using a 7/16" wrench and ratchet with a 7/16" socket, fully tighten all mounting bolts and nuts.

STEP 7:

Plug the TC460 carrier into your vehicle. Use zip ties to secure any loose, excess electrical wiring.