

# RCI ADJUSTABLE BED RACK INSTALLATION GUIDE

**\*\*This install guide is applicable to both our HD Series and our SPORT Series of bed racks\*\***



## TOOLS REQUIRED:

Description
3/8" or 1/2" Socket Wrench and Socket Set
Metric Box-End Wrenches

## INCLUDED HARDWARE:

Item	Description	QTY
H1.	3/8" x 1" Carriage Bolt	42 ea. (HD/SPORT)
H2.	3/8" Washer	54 ea. (HD/SPORT)
H3.	3/8" Lock-washer	55 ea. (HD/SPORT)
H4.	3/8" Hex Nut	49 ea. (HD/SPORT)
H5.	3/8" x 1-1/8" Hex Bolt	<u>6 ea.</u> (HD/SPORT)

## INCLUDED COMPONENTS:

Item	Description	QTY
C1.	Leg Section	6 ea. (HD) 4 ea. (SPORT)
C2.	Leg Crossmember	3 ea. (HD) 2 ea. (SPORT)
C3.	Top Brace	2 ea. (HD/SPORT)
C4.	Side Panel	2 ea. (HD/SPORT)
C5.	Logo Backing Plates	2 ea. (HD Only)

## MOUNTING COMPONENTS:

**\*\* (Mounting method may vary based on selection and vehicle)\*\***

### C-CLAMPS:

Item	Description	QTY
CC1.	Clamp Assembly	6 ea. (HD) 4 ea. (SPORT)

### TOYOTA MOUNTING ADAPTERS:

**\*\* (05+ Tacoma/07-21 Tundra/Jeep Gladiator)\*\***

Item	Description	QTY
TM-1.	Adapter Plate	6 ea. (HD) 4 ea. (SPORT)
TM-2.	Track Nut	6 ea. (HD) 4 ea. (SPORT)
TM-3.	3/8" x 1" Carriage Bolt (not included in 05-15 Tacoma kit)	6 ea. (HD) 4 ea. (SPORT)

## INSTALLATION STEPS:

- 1) Begin by unpacking and removing all components and hardware. Please verify that all hardware, components, and mounting components are present. Please reference your original order invoice and verify all items are accounted for.
- 2) Take **TWO** Leg Sections(**C1**) and insert a section on each end of **ONE** Leg Crossmember(**C2**). Insert the Leg Sections(**C1**) until one square hole is present on each of the two slots on the side of the Leg Crossmember(**C2**). Add one 3/8" Carriage Bolt(**H1**) per square hole(**Figure 1**), with the threads towards the center of the Leg Crossmember(**C2**). Add a 3/8" Washer(**H2**), 3/8" Lock-washer(**H3**), and 3/8" Hex nut(**H4**) on the end of the carriage bolts. **DO NOT TIGHTEN**. You should have a total of four carriage bolts per leg section and eight total carriage bolts for the assembly.
  - a. For **HD** Series Racks: Repeat Step 2 until **THREE** total assemblies are built.
  - b. For **SPORT** Series Racks: Repeat Step 2 until **TWO** total assemblies are built.



**Figure 1**

- 3) Place all **THREE** leg(HD Series)/**TWO** leg(SPORT Series) and crossmember assemblies onto the bed sides of the vehicle, spanning the truck bed width. Evenly space all three/two assemblies apart from each other.
- 4) Attach **ONE** Side Panel(**C4**) to the sloping portion on the driver side of the bed rack. Using two 3/8" carriage bolts(**H1**), 3/8" Washers(**H2**), 3/8" Lock-washers(**H3**), and 3/8" Hex nut(**H4**) per leg assembly with the carriage bolt threads pointing towards the center of the truck bed. **DO NOT TIGHTEN.**
  - a. For **HD** Series Racks: Repeat Step 4 on the passenger side. Once both side panels are loosely attached, insert one Logo Backing Plate(**C5**) between the center leg assembly and side panel. (**Figure 2**).
  - b. For **SPORT** Series Racks: Repeat Step 4 on the passenger side.
  - c. Adjustment of the side panel, higher or lower, on the Leg Section(**C1**) may vary based on accessories or desired aesthetic.

Figure 2



- 5) Your RCI Bed rack will include **TWO** Top Brace(**C3**) components. These can both be mounted to the top of the bed rack that is assembled so far, or only one can be used. Installation of both Top Brace components is recommended on all **SPORT** Series racks. Installation of a single Top Brace component is recommended only on **HD** Series racks.
  - a. For installation of both Top Brace(**C3**) components, evenly space both components from each other on the top of the rack. The square holes on each end of the Top Brace(**C3**) should line up with a large slot on the Leg Crossmember(**C2**). This will allow for a wide range of placement variety. Choose the best component spacing that fits your application needs. Attach the top brace with 3/8" carriage bolts(**H1**), 3/8" Washers(**H2**), 3/8" Lock-washers(**H3**), and 3/8" Hex nut(**H4**) at each Leg Crossmember(**C2**). Installation of both Top Brace components is recommended on all **SPORT** Series racks. **DO NOT TIGHTEN.**
  - b. For installation of a single Top Brace(**C3**) component, place the component in the center on top of the rack. The square holes on the Top Brace(**C3**) should line up with a matching set of square holes on Leg Crossmembers(**C2**). Attach the top brace with 3/8" carriage bolts(**H1**), 3/8" Washers(**H2**), 3/8" Lock-washers(**H3**), and 3/8" Hex nut(**H4**) at each Leg Crossmember(**C2**). **DO NOT TIGHTEN.**
- 6) The primary structure of the bed rack is now assembled! (**Figure 3**) All fasteners between components should still be loose and allow for movement/placement of the rack on the vehicle. Once the rack has been placed satisfactorily, proceed to the installation of your mounting method.



Figure 3 (HD Series with single Top Brace)



Figure 3 (SPORT Series)

- a. For C-Clamps(CC1) or Toyota Mounting adapters(TM-1)+(TM-2), please continue with this guide below.
  - b. For RCI Tonneau Adapters, please reference the installation guide that can be found here: <https://rcimetalworks.com/install-guides/>
    - i. If RCI Tonneau Adapters are used, please tighten all fasteners on the rack AFTER the adapters have been installed and attached. The tonneau cover system should have the rack securely held in place on the truck bed before the final tightening.
  - c. For installation of the rack directly to the vehicle bed (drill and bolt) we recommend a hardened steel self-tapping bolt be used. Selection of this hardware will vary based on the vehicle and bed side construction (length and width of fastener). RCI does not supply this hardware. A coarse thread, hardened steel fastener is recommended. Pre-drilling is highly recommended.
    - i. In extreme cases, it may be recommended to bolt the rack vertically through the bed rack foot. This may only be necessary if the bed side is built with no metal in line with the existing horizontal bolt location. Bolting vertically will require a customer added hole to the bed rack foot. A machine thread screw with washers and a nut may be required to safely attach the rack in this situation.
- 7) Installation of all RCI mounting methods is very simple. Please reference Figure 4, Figure 5, or Figure 6 to determine the mounting method ordered and shipped with your new bed rack.
- a. For installation of the Toyota Mounting Adapter: insert Track Nuts(TM-2) into the factory bedside rail. You will need **TWO** Track Nuts(TM-2) per side for (SPORT Series) racks and **THREE** Track Nuts(TM-2) per side for (HD Series) racks. Once track nuts are inserted, evenly space them out adjacent to the bed rack foot sitting on the bed side. Insert ONE 3/8" carriage bolts(H1) through the Adapter Plate(TM-1) and then insert the threads of the 3/8" carriage bolt through the hole of the bed rack foot. Verify that the Adapter Plate(TM-1) is between the vehicle bed side and the bed rack foot with the carriage bolt threads pointing to the center of the vehicle. Add 3/8" Washers(H2), 3/8" Lock-washers(H3), and 3/8" Hex nut(H4) to the 3/8" carriage bolt and Adapter Plate assembly. **DO NOT TIGHTEN.** Align the lower slots present on the Adapter Plate(TM-1), with the threaded hole on the Track Nut(TM-2).

Before threading the 3/8" x 1-1/8<sup>th</sup>" Hex bolts(H5) through the Adapter Plate(TM-1), be sure to apply a 3/8" Lock-washer(H3) first and a 3/8" Washer(H2) second. Thread the bolt(H5) and washers(H2+H3) through the Adapter Plate(TM-1) and into the Track Nut(TM-2). DO NOT TIGHTEN.

- i. For HD Series Racks: Repeat Step 7a. five additional times.
- ii. For SPORT Series Racks: Repeat Step 7a. three additional times.
- iii. Proceed to final tightening step below!

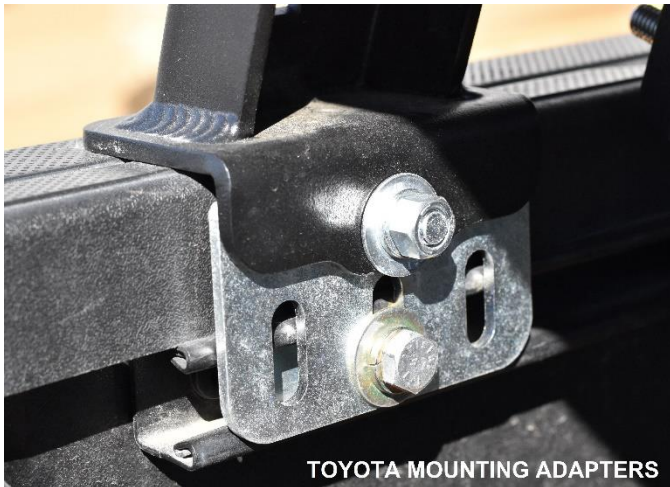


Figure 4



Figure 5



Figure 6

- b. For installation of the C-clamp(CC-1) mounting components, remove all six C-clamps(CC-1) from plastic sleeve and inspect the threaded fastener. Loosen the fastener, but do not completely remove it, and wrap the longer leg of the C-clamp(CC-1) under the bed side. Lever the shorter leg of the C-clamp(CC-1) up and over the bed side and bed rack foot. Adjust the C-clamp(CC-1) until the depth of the jaw is fully seated to the bedside and tighten the fastener. (Figure 5) Hand tool tight is plenty. Do NOT over torque the c-clamp fastener or the threads may shear from the aluminum assembly.

8) Installation of your RCI Bed rack is nearly complete! For final tightening of all fasteners, begin at the lowest fasteners and work towards the top of the rack. Hand tool tight with wrenches is plenty, split washers will assist in keeping the rack tight.

9) Enjoy your new RCI Adjustable Series Bed Rack!



**Share your new install with us on social media!**

**We love seeing our products out in the wild!**

[www.rcimetalworks.com](http://www.rcimetalworks.com)

[sales@rcioffroad.com](mailto:sales@rcioffroad.com)

970-797-3089

REV: 1 | 01/26/2022

Created: AWM

