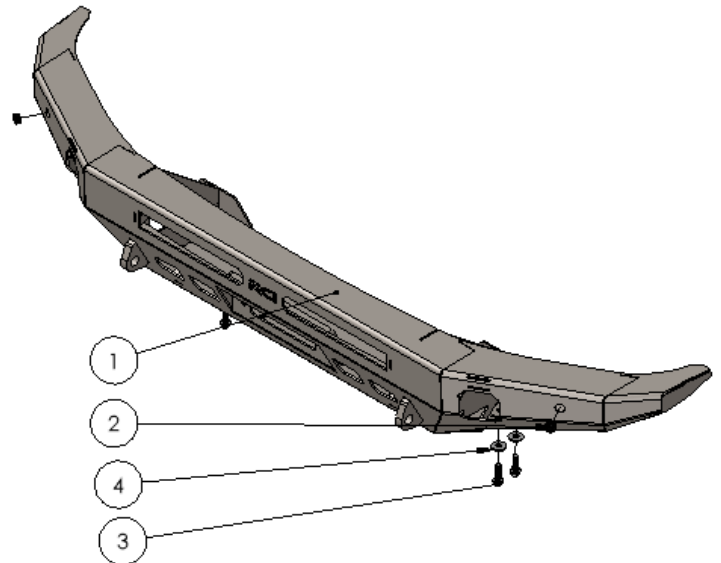


RCI 14-21 Toyota Tundra - Front Bumper Install Guide

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SM-00443	14-21 Tundra Front Bumper	1
2	HW-00058	Toyota Bumper Panel Plugs	2
3	HW-00057	M12 x1.25 x40mm Flanged Hex Bolt	4
4	HW-00022	1/2" Washer	4
5	HW-00060	07-21 Tundra Power Steering Relocation Bracket	2
6	HW-00067	5/16 x 3/4 Carriage Bolt	2
7	HW-00037	5/16 USS FLAT WASHER ZINC	2
8	HW-00062	5/16-18 Nylock Nut	2
9	HW-00028	Full Moon Spacer	4



UNLESS OTHERWISE SPECIFIED:		PROPRIETARY AND CONFIDENTIAL		NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 0.010 ANGULAR: BEND ± 0.5 TWO PLACE DECIMAL ± 0.015 THREE PLACE DECIMAL ± 0.010		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RCI Offroad. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF RCI Offroad IS PROHIBITED.		DRAWN	NA
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TITLE:					
14-21 Tundra Front Bumper Install Guide					
Item Number					REV
Hardware					1
DO NOT SCALE DRAWING		SCALE: 1:48		WEIGHT:	SHEET 1 OF 1

Figure 1:BOM

INSTALLATION STEPS:

****Use hand tools, impact wrenches may cause damage if over torqued.****

- 1) Begin by unpacking and removing all components and hardware. Please verify that all hardware and mounting components are present. Reference your original order invoice and verify all items are accounted for.
- 2) Remove the plastic trim on the inner fenders of the vehicle.
 - a. Remove the screws and clips holding the liner to the bumper and remove the liner to access the fog light and parking sensor wiring.



Figure 2

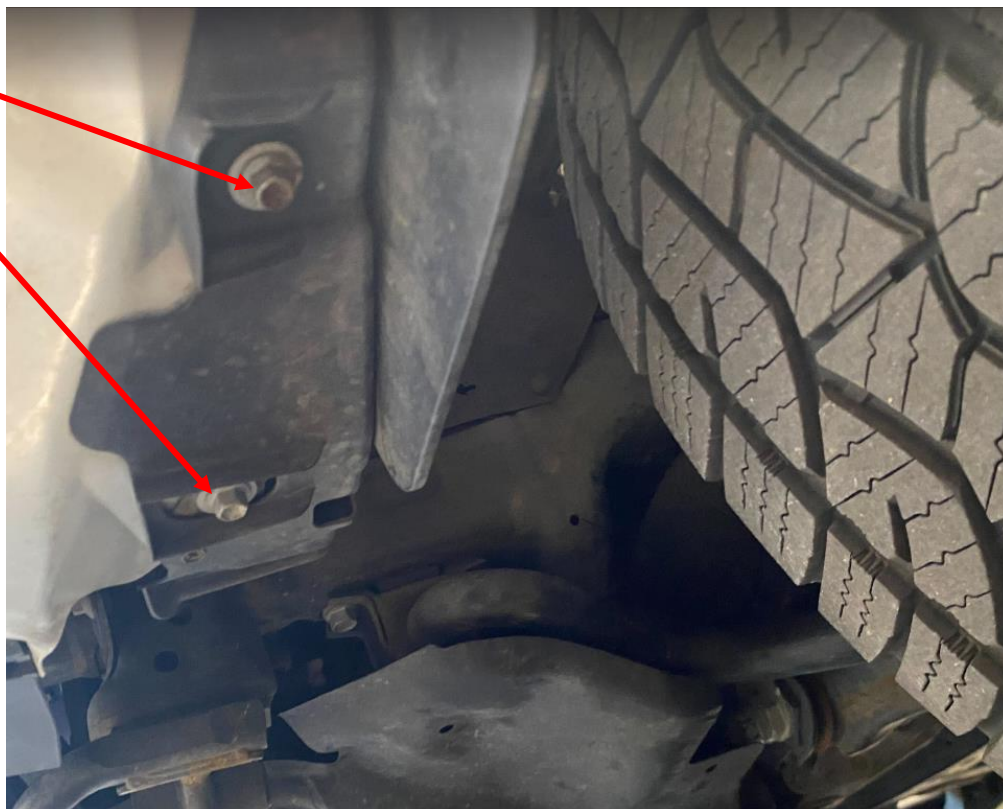


Figure 3

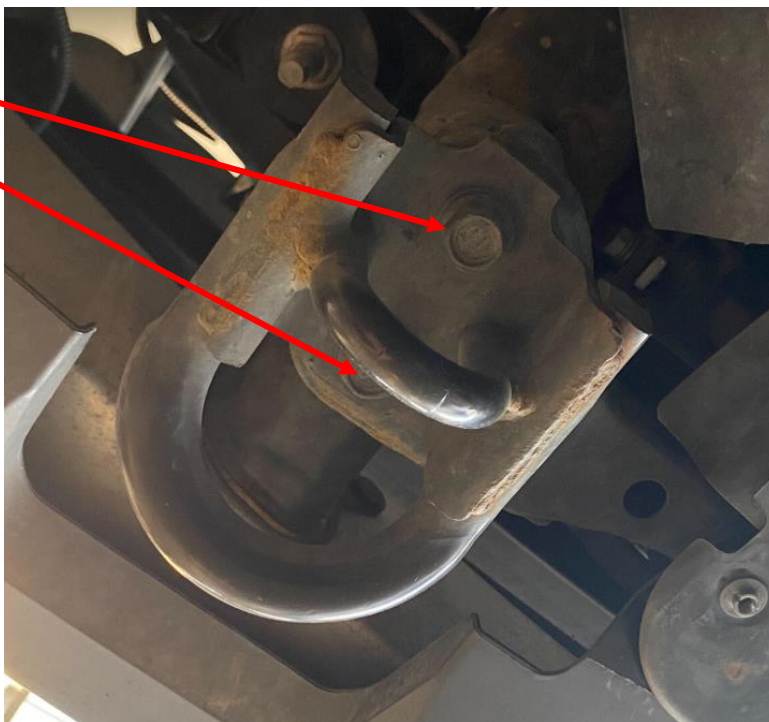
3) Disconnect the fog lights and the parking sensor wiring.



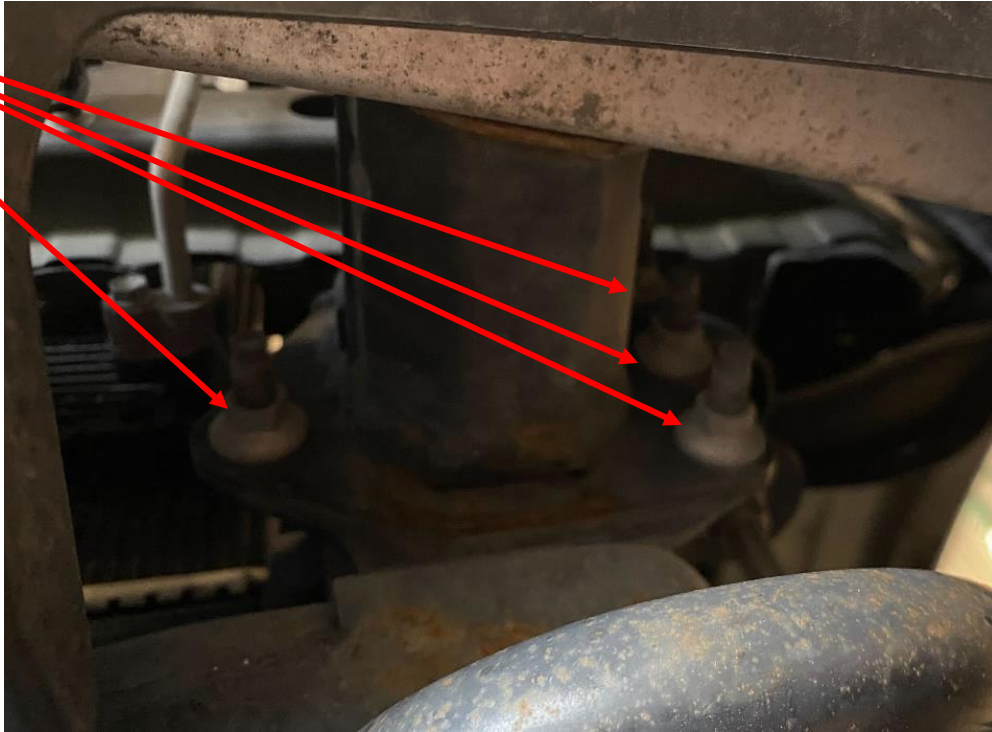
- 4) Remove factory grille.
 - a. Remove the 4 screws on the top of the grill along with the two trim clips on each side.
 - b. Disconnect ACC sensor if applicable.
 - c. After removing the hardware, the grille will only be held on by clips. Pull on the sides of the grille to release it from the vehicle.



- 5) Remove the factory tow hooks from both sides of the vehicle.



- 6) Remove the bumper from the vehicle.
 - a. Remove the 8 nuts securing the bumper (4 per side).



- 7) Once all the hardware is taken off the bumper can be removed and set aside.
- 8) If the vehicle is equipped with parking sensors, they need to be removed from the OEM bumper and re-installed in the RCI bumper before proceeding.
 - a. Remove the parking sensors from the bumper by disconnecting them and taking out the white retaining clip.
 - i. Save the white retaining clip for installation on the RCI bumper.
 - b. Remove the parking sensor wiring harness and set it aside.



- 9) Install the parking sensor into the RCI bumper.
 - a. Feed the sensor through the front of the bumper and secure it in place with the white retaining clip as modeled below.



Figure 4: Example of parking sensor installed (Ignore bracket in model, parking sensor will be mounted directly to the bumper)

10) If installing a winch, the power steering radiator needs to be relocated.

11) Remove the two bolts securing the radiator.



Figure 5: Remove the two M8 bolts securing the radiator

a. Flip the passenger side radiator mount.



Figure 6: Flip passenger side bracket

b. Install the provided relocation brackets as depicted below. Using the OEM hardware and the 5/16" carriage bolts, 5/16" washers, and 5/16" locknut.

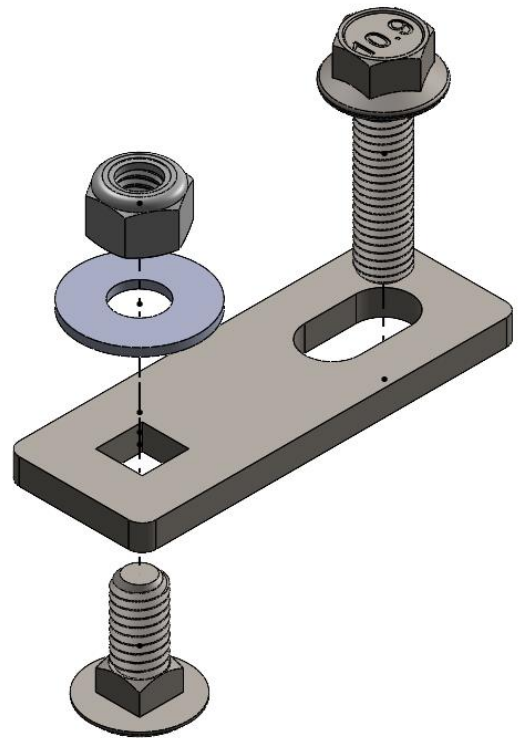


Figure 7: Passenger side correct installation



Figure 8: Driver side correct installation

- 12) Before mounting the bumper to the vehicle, install any desired lights, winches, or fairleads.
- 13) If installing the bumper with an OEM front skid plate remove the frontmost bolts so the bumper can be mounted above the skid plate.

- 14) With the help of a friend, mount the bumper to the vehicle.
- Align the slots on the bumper with the studs on the vehicle and reinstall the OEM nuts to hold the bumper in place.
 - Don't fully tighten the nuts.



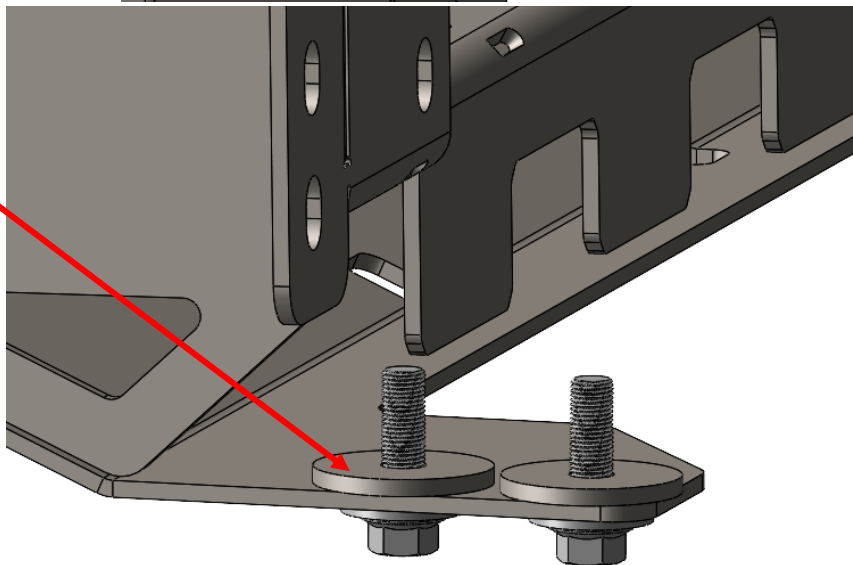
Figure 9: Correct installation of bumper on mounting surface

- 15) Collect the provided M12 bolts and 1/2" washers and install them in the lower threaded holes where the OEM tow hooks were mounted.
- Fully tighten these lower M12 bolts
 - If height adjustment is needed, add the provided full moon spacers between the bottom of the bumper and the frame of the vehicle before installing the M12s.



Full Moon Spacer

(Only install if
bumper needs to
sit lower on the
vehicle)



- 16) With the lower mounts tight, fully tighten the 8 nuts mounting the bumper.
- a. Tighten the front skid plate.



Figure 10: Example of OEM skid installed with RCI front bumper

- 17) If applicable, plug in parking sensors.
- 18) Reinstall the truck's grille to complete the installation.

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