



**SDHQ Motorsports**  
190 S McQueen Rd  
Ste 109 Gilbert, AZ 85233  
Phone: 480-633-2929

## Product Packing List

**Product:** SDHQ-53-1410/1411-G3

**Description:** 2007-2021 Toyota Tundra Traction Bar

(2) Frame Mounts (Boxed Separately)

\_\_\_\_\_ (1) CrewMax Driver Side

SDHQ-53-1410-G3-AD

\_\_\_\_\_ (1) CrewMax Passenger Side

SDHQ-53-1410-G3-AP

OR

\_\_\_\_\_ (1) Double/Regular Cab Driver Side

SDHQ-53-1411-G3-AD

\_\_\_\_\_ (1) Double/Regular Cab Passenger Side

SDHQ-53-1411-G3-AP

\_\_\_\_\_ (2) Traction Bars

SDHQ-53-1410-G3-B

\_\_\_\_\_ (1) Axle Mount Driver Side

SDHQ-53-1410-G3-CD

\_\_\_\_\_ (1) Axle Mount Passenger Side

SDHQ-53-1410-G3-CP

\_\_\_\_\_ (4) Shackle Plates

SDHQ-53-1410-G3-D

\_\_\_\_\_ (2) Frame Clamp Brackets

SDHQ-50-1540-P3

\_\_\_\_\_ (1) Hardware Package

SDHQ-53-1410-G3-HP

Inspected and Packaged By: \_\_\_\_\_ Date: \_\_\_\_\_

For questions or help with the installation, please call SDHQ Offroad @ 480-633-2929  
Mon.-Fri. 8:00am-5:30pm and Sat. 8:00am-3:30pm Arizona Time. [www.sdhqoffroad.com](http://www.sdhqoffroad.com)

Included in Hardware Package SDHQ-53-1410-63-HP:

- (1) M8 - 1.25 x 30mm Class 10.9 Flange Head Bolt
- (2) 3/8" - 16 x 1 1/2" S.S. Button Head Bolt
- (3) 3/8" - 16 x 1 1/4" Grade 8 Hex Head Bolt
- (6) 3/8" Grade 8 Flat Washer
- (2) 3/8" Grade 8 Lock Washer
- (1) 3/8" - 16 Grade 8 Locknut
- (6) 5/8" - 11 x 3 1/2" Grade 8 Hex Head Bolt
- (12) 5/8" Grade 8 Flat Washers
- (6) 5/8" - 11 Grade 8 Locknut
- (2) 7/8" X 7/8" RH FK Heim
- (2) 7/8" RH Jam Nut
- (2) 7/8" Heim Boot
- (4) 7/8" x 5/8" Misalignment Spacer
- (8) Delrin Bushings
- (4) 1" OD x 5/8" ID Bushing Inner Sleeve
- (4) Bump stops
- (1) ICON 8" U-bolt Hardware Kit
- (2) 1/8" Bump stop Spacers
- (2) 1/4" Bump stop Spacers
- (1) Tube of Anti-Seize
- (1) Tube of Blue Loctite



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## INSTALLATION INSTRUCTIONS

**Product:** SDHQ-53-1410-G3

**Description:** 2007-2020 Toyota Tundra Traction Bars



<u>Parts List</u>	<u>Hardware List</u>	<u>Required Tools</u>
(2) Frame Mounts Crew Max SDHQ-53-1410-G3-AD SDHQ-53-1410-G3-AP <u>OR</u> Double/Single Cab SDHQ-53-1411-G3-AD SDHQ-53-1411-G3-AP (2) Traction Bar SDHQ-53-1410-G3-B (2) Axle Mounts SDHQ-53-1410-G3-CD SDHQ-53-1410-G3-CP (4) Shackle Plates SDHQ-53-1410-G3-D (2) Frame Clamp Bracket SDHQ-53-1540-P3 (1) Hardware Package SDHQ-53-1410-G3-HP	(1) M8 – 1.25 x 30mm Class 10.9 Flange Head Bolt (2) 3/8” – 16 x 1 1/2” S.S. Button Head Bolts (3) 3/8” – 16 x 1 1/4” Grade 8 Hex Head Bolts (6) 3/8” Grade 8 Flat Washers (2) 3/8” Grade 8 Lock Washers (1) 3/8” – 16 Grade 8 Locknut (6) 5/8” – 11 x 3 1/2” Grade 8 Hex Head Bolts (12) 5/8” Grade 8 Washers (6) 5/8” – 11 Grade 8 Locknuts (2) 7/8” x 7/8” RH FK Heim (2) 7/8” RH Jam Nuts (2) 7/8” Heim Boots (4) 7/8” x 5/8” Misalignment Spacers (8) Delrin Bushings (4) 1” OD x 5/8” ID Bushing Inner Sleeve (4) Bump stops (1) Icon U-Bolt Hardware Kit (2) 1/8” Aluminum Bump stop Spacers (2) 1/4” Aluminum Bump stop Spacers (1) Tube of Anti-Seize (1) Tube of Blue Loctite	12mm, 13mm, 14mm, 22mm, 9/16” and 15/16” Sockets Ratchet and Extensions Wobble Adapter Jack Stands Jack 9/16”, 15/16” Wrenches 1/4” Hex Drive Pry Bar Wheel Chocks Pliers Small Flat Head Screwdriver Small Pick

### **Tech Notes**

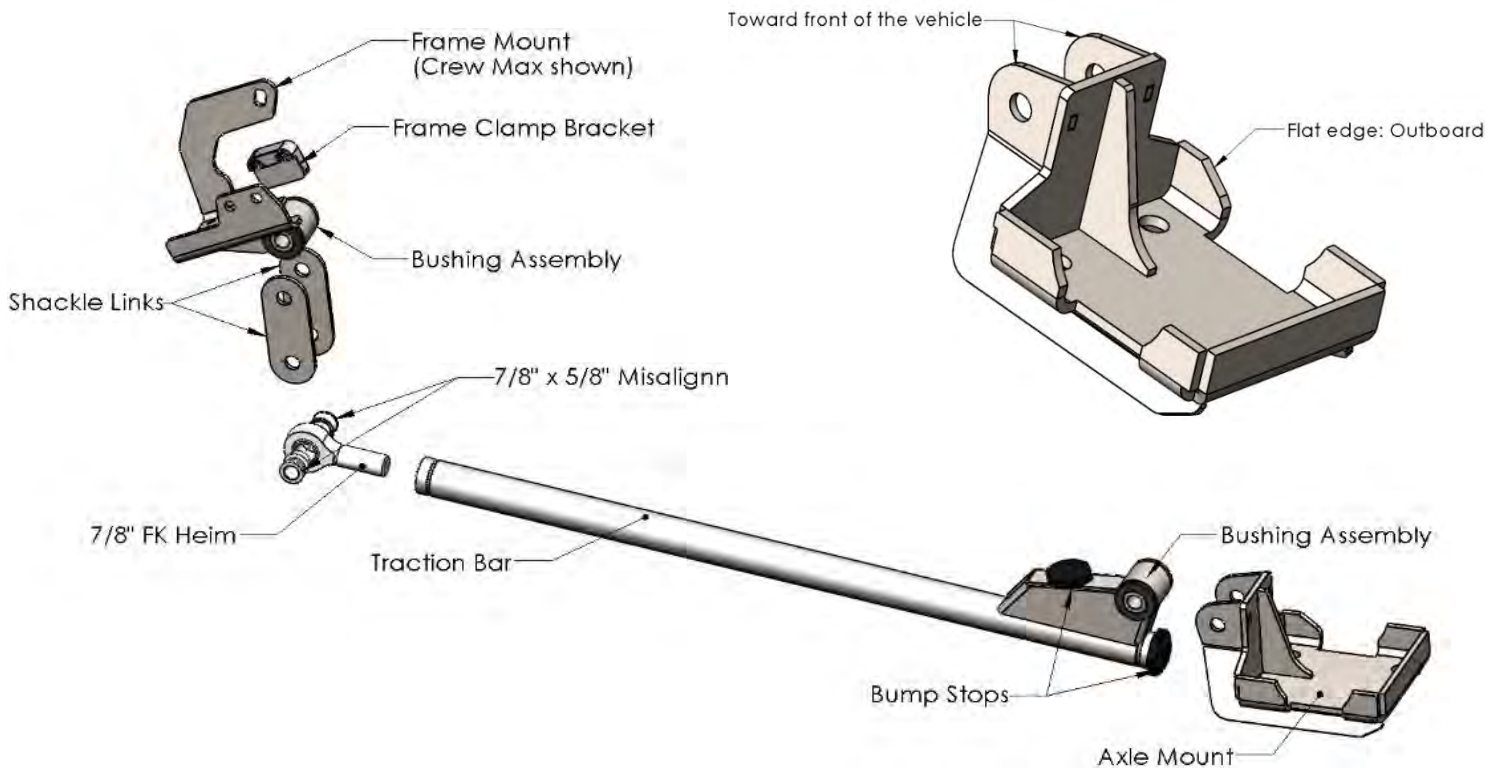
The driver's side Frame Mount can be tricky to bolt up next to the gas tank.  
 Follow instructions carefully in order to save time and frustration.  
 Frame and Axle Mounts are Driver/Passenger Side dependent.

Supplied U-Bolts are 8” long. Measure your U-Bolts before starting. Purchase longer U-Bolts if necessary.  
 Upper Bump stop is to prevent metal on metal contact between the leaf springs and traction bar, no spacers are necessary.  
 Use Anti-Seize on all Stainless Steel (S.S.) Hardware.

**Approx. Install Time: 3-4 Hours**

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## Passenger Side



**\*\*\*READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION!\*\*\***

### Installation Instructions:

1. Unbox your SDHQ Tundra Traction Bar, check over all of the parts. Familiarize yourself with the parts and diagrams above. Crewmax Front Mounts shown installed below.
2. **Traction Bar Prep.** Install (2) Delrin Bushings and (1) Inner Sleeve into each Frame Mount and Traction Bar as pictured below. Install (2) Bumpstops onto each Traction Bar. Install the heim boot, misalignment spacers and jam nut on the heims. Fully install the heim onto the Traction Bar, using Anti-Seize.  
**\*Pro-Tip\*** Use soap and water to install the heim boot over the heim, then install the spacers.



3. Park the vehicle on flat, level ground. Chock the front wheels. If your Tundra is equipped with a gas tank skid plate, remove the 4 or 6 (depending on tank option) 12mm bolts holding it on, and set aside for ease of installation.

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4. Jack up the rear of the truck tall enough such that there is enough space to work underneath when the gas tank is lowered. Support the truck with jack stands under the rear axle. Although not necessary, it may help with space to remove the rear wheels.
5. The fuel tank will need to be moved to access the Frame Mount. Place a large flat board that fits between the tank straps under the middle of the tank. Jack up the tank with the board enough to take the pressure off the straps. Use a 14mm socket and wobble adapter to loosen the tank strap bolts on the driver side. Lower the tank a few inches and slide the tank towards the passenger side a few inches to allow access to the Frame Mount.
  - \* Some vehicles will have a larger tank with (3) straps.
  - \* Some vehicles may require the driveshaft to be unbolted at the differential to allow for the fuel tank to be pushed over adequately enough.
6. **Front Mount Install.** Remove the brake line bolt pictured below using a 12mm socket. Use pliers to flatten the tab. Align the Driver Side Frame Mount as pictured below and secure it using the supplied M8 Flange Head Bolt, leave slightly loose.



7. Add Blue Loctite to the threads on (1) Frame Clamp Bracket. Align the Frame Clamp Bracket into the C Channel of the frame, behind the Frame Mount installed in Step 6. Thread (2) 3/8" Button Head Bolts and washers through each hole in the Frame Mount into the Frame Clamp Bracket.
8. While pushing the Frame Mount against the frame, tighten the M8 bolt and 3/8" bolts. Torque M8 and 3/8" hardware to 30 ft-lbs.



9. Align the gas tank back into position and secure it with the 14mm head bolts.
10. Align the Passenger Side Frame Mount. Install (1) supplied 3/8" bolt and washer through the top, outside of the frame, and thread on (1) 3/8" washer and locknut inside the frame. Align the Frame Clamp Bracket and begin threading the 3/8" Hex Head Bolts, lock washers and washers.
11. While pushing on the Frame Mount against the frame, torque all 3/8" hardware to 30 ft-lbs.



12. **Axle Mount Install.** Starting on the driver side, remove both U-Bolts and the U-Bolt Plate from the axle. (Refer to page 4 to identify the proper mount to use, they are side dependent.) Align the Driver Side Axle Mount and place the supplied Icon U-Bolts over your leaf pack, through the Axle Mount. Thread on the washers and nuts. Evenly tighten the bolts with a 22mm socket. Torque the nuts to 100-120 ft-lbs once on the ground.
13. Repeat Step 12 for the Passenger Side Axle Mount.



14. **Traction Bar Install.** Align (1) Traction Bar to the Driver Side Axle Mount. Install (1) 5/8" bolt, (2) washers and (1) locknut, securing the Traction bar to the Axle Mount.

**15.** Install (1) 5/8" bolt and washer through (1) Shackle Plate, the Driver Side Frame Mount and a second Shackle Plate. Place a washer and thread a locknut on the bolt. Align the heim on the Traction Bar with the lower hole on the Shackle Plates. Install (1) 5/8" bolt and washer through the Shackle Plates and heim, and install a washer and locknut on the bolt. Leave all 5/8" Hardware loose as adjustments will need to be made.

**16.** Repeat Steps 14 – 15 on the Passenger Side.



**17. Traction Bar Adjustment.** Install the wheels and set the truck on the ground. Adjust the heim such that the shackles are vertical from the ground. Tighten the Jam Nut against the Traction Bar to set the heims.



**18.** Measure the gap between the bump stop on the rear of the Traction Bars, and the bump plate on the Axle Mounts. It is recommended to have ~ 1/8" gap. If required, remove the 5/8" bolt and lower the Traction Bar. Install the supplied 1/8" and/or 1/4" aluminum spacers to reach the recommended gap and install the Traction Bar again.



**19.** With the Traction Bar adjusted and all mounts installed, tight all 5/8" hardware. Torque the U-Bolts to 100-120 ft-lbs. Torque 5/8" hardware to 120 ft-lbs. Your SDHQ Built Traction Bar install is complete! Enjoy your increased traction.

**\*\*\*Double check all hardware is installed correctly and tight\*\*\***

**\*\*\*Re-torque ALL bolts after 100 miles\*\*\***



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