ICON Vehicle Dynamics 56111 Installation Instructions

Rear Hydraulic Bump Stop Kit for Toyota Tundra

Part number: 56111

trailfortress.com/icon-vehicle-dynamics-22-25-tundra-rear-hyd-bump-stop-kit-56111

Scan for fitment, price and install help

ICON VEHICLE DYNAMICS®
7929 Lincoln Ave. Riverside, CA 92504
Phone: 951.689.ICON | Fax: 951.689.1016

56111 INSTALLATION INSTRUCTIONS

8-2-2022 REV.A

PART #	DESCRIPTION
56111	22-UP TUNDRA REAR AIR BUMP KIT

COMPONENTS INCLUDED

(1) 154164 A 22-UP TUNDRA REAR BUMP MNT DRVR (1) 154165 A 22-UP TUNDRA REAR BUMP MNT PASS (1) 154166 A 22-UP TUNDRA REAR AXLE STRIKER PAD DRVR	(1) 154167 A 22-UP TUNDRA REAR AXLE STRIKER PAD PASS (2) 204908 A 2.0 AIR BUMP, 2.5 TRAVEL. 1:1 RATIO HD SHORT UPKG (1) 56111H A 22-UP TUNDRA REAR AIR BUMP HARDWARE KIT

HARDWARE INCLUDED

(2) 290024 A WASHER .939" X .505" X .1046"	(3) 294007 A NUT TAB 1/2-13 4.0 W/BEND BLK ZINC

56111 HARDWARE KIT

(2) 297514 A SLEEVE .500 X .340 X 1.400 CZINC (2) 605300 1/2-13 X 1.000 HHCS GR8 YZINC (3) 605301 1/2-13 X 1.250 HHCS GR8 YZINC (2) 605321 1/2-13 NYLOCK NUT GR8 YZINC (7) 605330 1/2 FLAT WASHER GR8 YZINC	(4) 605052 1/4-20 NYLOCK NUT GR8 YZINC (2) 605053 1/4 SAE FLAT WASHER GR8 YZINC (4) 605057 1/4-20 X 2.000 HHCS GR8 YZINC (2) 605861 M8-1.25 X 50MM HHCS GR8.8 CZINC

TOOLS REQUIRED

TORQUE WRENCH RATCHETS PLIERS DRILL 1/2" DRILL BIT CUT OFF WHEEL FLAT BLADE SCREWDRIVER	#2 PHILLIPS SCREWDRIVER 8MM SOCKET / WRENCH 12MM SOCKET / WRENCH 17MM SOCKET / WRENCH 19MM SOCKET / WRENCH 7/16" SOCKET / WRENCH 3/4" SOCKET / WRENCH

TECH NOTES

1. YOUR ICON BUMP STOP ASSEMBLIES COME FACTORY CHARGED TO 100 PSI. PLEASE CONSULT ICON PRIOR TO MAKING ANY NITROGEN PRESSURE CHANGES.

2. DOES NOT FIT TRD PRO MODELS

3. WILL WORK WITH FACTORY SPRING AND SHOCKS

4. INSTALL TIME: 2-3 HOURS



WARNING!

*** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!*

*** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.*

*** ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.*

INSTALLATION

1. Remove e-brake wiring bracket from axle using a 12mm. **[FIGURE 1]**



FIG.1

2. Remove the lower link bolt using a 19mm. Loosen the bolt, the nut is designed to lock into the mount and not rotate. The lower shock eyelet might need to be removed to get the bolt completely out. Use a 17mm. Support the lower link. **[FIGURE 2]**

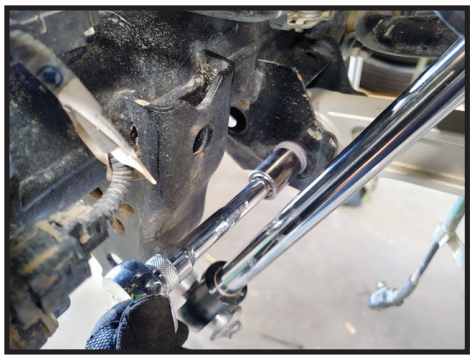

FIG.2

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3. Locate and install the driver side bump stop striker pad. Place it into position and reinstall the factory bolt and nut. The bolt can be installed from the inside to help avoid the shock. **[FIGURE 3 & 4]**

FIG.3





FIG.4

4. Install the supplied 1/2-13 x 1.000 grade 8 bolt, washer, black zinc washer into the link pocket thru the striker pad. Install second flat washer and nylock nut. Torque to 70 ft-lbs. **[FIGURE 5, 6, 7]**

FIG.5

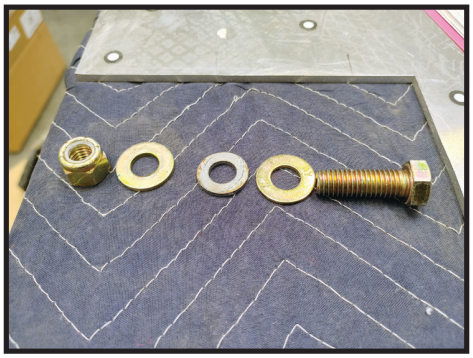




FIG.6

FIG.7



5. Torque the lower link bolt to factory specs. Hold the nut stationary with a 19mm while tightening the bolt. The nut can be damaged if rotated.

6. Use the supplied 1.400" sleeve and M8-1.25 x 50mm bolt and reattach the brake line bracket to the frame. The sleeve is used to raise the bracket to clear the striker pad. Torque to factory spec. **[FIGURE 8]**

FIG.8

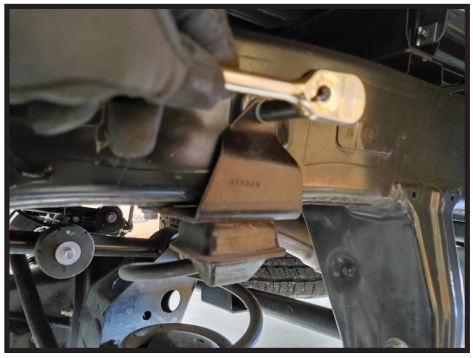


7. Repeat steps on passenger side for the striker pad installation.

DRIVER SIDE BUMP-STOP INSTALLATION

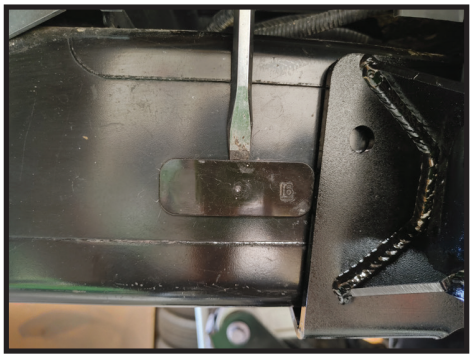
8. Remove the factory bump stop bracket from the frame using a 12mm. Two of the bolts will be reused, the third will be used on the passenger side. **[FIGURE 9]**

FIG.9



9. Remove the plastic caps from either side of the bump stop. Use a screwdriver to press in the clips and pry them out. **[FIGURE 10 & 11]**

FIG.10



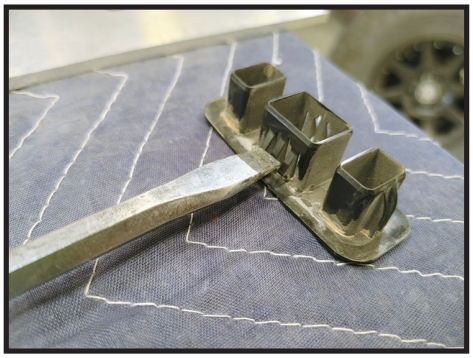


FIG.11

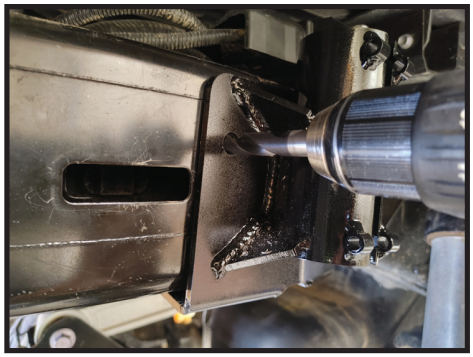
10. Find and place the driver side air bump stop bracket onto the frame and secure it with the 2 factory bolts thru the bottom. Torque to 20 ft-lbs. **[FIGURE 12]**

FIG.12



11. Use a 1/2” drill bit to drill out the holes thru the bump stop bracket into the frame. **[FIGURE 13]**

FIG.13



12. With both holes drilled, insert the supplied 1/2-13 x 1.25" grade 8 bolts and flat washers into the holes. Then insert the supplied 1/2-13 nut tabs into the slotted holes and thread the bolts into the nut tabs. Torque to 70 ft-lbs. **[FIGURE 14 & 15]**

FIG.14

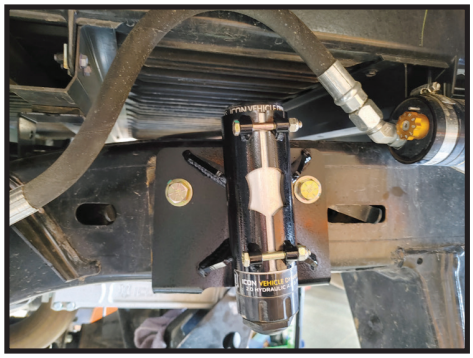




FIG.15

13. Insert the ICON 2.0 hydraulic bump stop into the mount and secure with the supplied 1/4-20 x 2.00 grade 8 bolts and nylock nuts. Torque to 8-10 ft-lbs. **[FIGURE 16]**

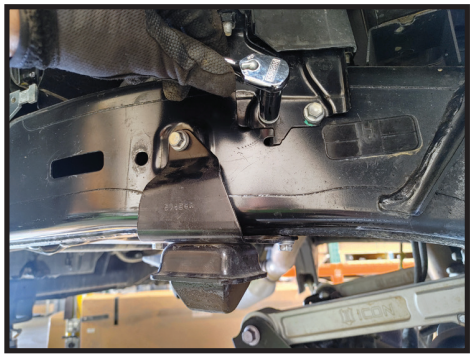
FIG.16



PASSENGER SIDE BUMP-STOP INSTALLATION

14. Remove the fuel pump controller from the frame using a 12mm. These bolts will not be reused. **[FIGURE 17]**

FIG.17



15. Remove the plastic cover from the fuel pump controller using a 12mm. **[FIGURE 18]**

FIG.18



16. Remove the controller from the bracket and secure the controller so it does not stress the wiring. A #2 phillips or 8mm can be used to remove the 2 screws. **[FIGURE 19]**

FIG.19

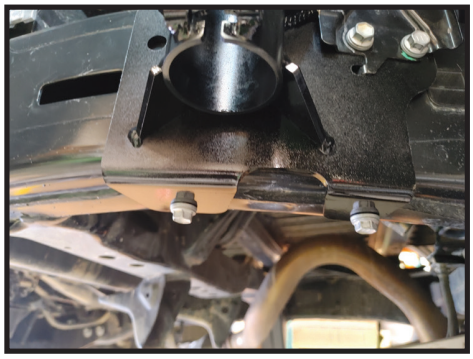


17. Remove the factory bumpstop using a 12mm. The bolts will be reused.

18. Remove the plastic plug from behind the bump stop.

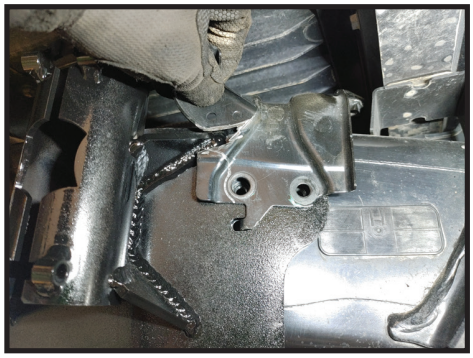
19. Place the Icon bump stop bracket labeled passenger onto the frame and secure it from the bottom using the longer factory bolts. **[FIGURE 20]**

FIG.20



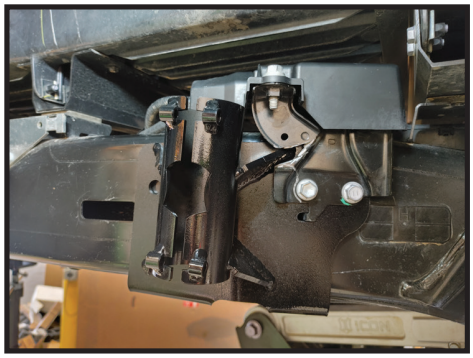
20. Take the fuel pump controller bracket and place it over the mounting holes and mark it to be cut to clear the bump stop bracket gusset. Cut it with a cut off wheel. Paint the exposed metal to prevent rust from forming. **[FIGURE 21]**

FIG.21



21. Reinstall the controller and plastic cover onto the bracket and install the bracket onto the frame, over the ICON bracket using the remaining 2 long bolts (1 from passenger side and 1 from driver side). Torque to 20 ft-lbs. **[FIGURE 22]**

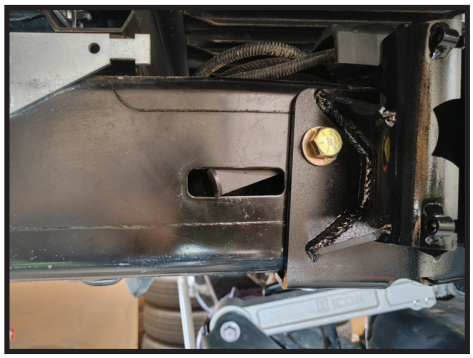
FIG.22



22. Using the bump stop bracket as a guide, drill the rear hole out to 1/2".

23. Insert the supplied 1/2-13 x 1.25" grade 8 bolt and washer into the newly drilled out. Insert the 1/2-13 nut tab thru the slot and thread the bolt into it. Torque to 70 ft-lbs. **[FIGURE 23]**

FIG.23



24. Slip the remaining hydraulic bump stop into the can and secure it with the 1/4-20 x 2.0 grade 8 bolts and nylock nuts. Torque bolts to 8-10 ft-lbs. **[FIGURE 24]**

FIG.24



VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

ICON VEHICLE DYNAMICS LIMITED LIFETIME WARRANTY

ICON Vehicle Dynamics warrants to the original retail purchaser who owns the vehicle on which the product was originally installed. ICON Vehicle Dynamics does not warrant the product for finish, alterations, modifications and/or installation contrary to ICON Vehicle Dynamics instructions. ICON Vehicle Dynamics products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. (A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America and Canada.

ICON Vehicle Dynamics' obligation under this warranty is limited to the repair or replacement, at ICON Vehicle Dynamics' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered.

ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty.

This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.

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