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# ICON Vehicle Dynamics K53297T Installation Instructions

Stage 7 Tubular UCA Suspension System for Toyota Tacoma (2024-2025)

Part number: K53297T

trailfortress.com/stage-7-tubular-uca-suspension-system-toyota-tacoma-icon-vehicle-dynamics-k53297t

Scan for fitment, price and install help

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# 58780 INSTALLATION INSTRUCTIONS

4-29-2024 REV.A

| PART # | DESCRIPTION |
|---|---|
| 58780 | 24 TACOMA 2.5 VS RR COILOVER KIT |

## COMPONENTS INCLUDED

| | |
|---|---|
| (1) 154602RD 24 TACOMA DRVR 2.5 VS RR CO<br>(1) 154602RP 24 TACOMA PASS 2.5 VS RR CO<br>(1) 611025 HARDWARE KIT | (1) 150143 FRONT DRVR RESI MOUNT<br>(1) 150144 FRONT PASS RESI MOUNT<br>(1) 611051 HOSE CLAMP KIT |

## HARDWARE INCLUDED

| | |
|---|---|
| (4) 605144 3/8-12 X .750 SELF TAP BOLT | (1) 605969 VIBRATITE RED |

## TOOLS REQUIRED

| | |
|---|---|
| JACK<br>JACK STANDS<br>TORQUE WRENCH<br>RATCHET<br>HAMMER<br>BALL JOINT SEPARATOR<br>FLAT BLADE SCREW DRIVER<br>PLIERS, TORQUE WRENCH<br>9/16 WRENCH AND SOCKET | 5/16 NUT DRIVER<br>10MM SOCKET / WRENCH<br>12MM SOCKET / WRENCH<br>14MM SOCKET / WRENCH<br>19MM SOCKET / WRENCH<br>22MM SOCKET / WRENCH<br>24MM SOCKET / WRENCH<br>35MM SOCKET / WRENCH |

## TECH NOTES

*1. YOUR ICON COILOVER ASSEMBLIES COME FACTORY CHARGED TO 250 PSI. RELEASING NITROGEN PRESSURE MAY LEAD TO SHOCK MALFUNCTION AND REDUCED RIDE QUALITY. FAILURE CAUSED BY LOW NITROGEN PRESSURE IS NOT COVERED UNDER ICON'S WARRANTY POLICY.*

*2. YOUR ICON COILOVER ASSEMBLIES COME SHIPPED AT ICON'S RECOMMENDED RIDE HEIGHT. REDUCING DROOP TRAVEL WILL REDUCE RIDE QUALITY. DO NOT PRELOAD THE COIL BEYOND 2" OF EXPOSED THREADS BETWEEN THE BOTTOM OF THE TOP CAP AND THE TOP OF THE COIL ADJUSTER NUT. ADJUSTING PRELOAD BEYOND THIS SETTING WILL CAUSE THE COIL TO BIND AND DAMAGE WILL OCCUR TO COILOVER AND/OR VEHICLE.*

*3. 55160 REQUIRED.*

*4. LIFTING OVER 2" REQUIRES ICON UCA.*

*5. ESTIMATED INSTALL TIME: 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.*

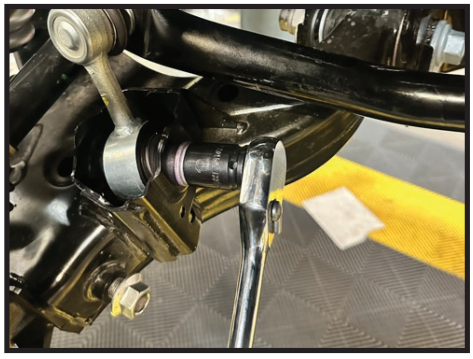
## INSTALLATION

***1.*** Place the truck on a flat surface with the parking brake engaged, chock the REAR/FRONT tires.

***2.*** Use a suitable floor jack in the manufacturer designated spot on the frame to lift the front of the truck, then place a suitable jack stand under the frame and set the truck down securely on the jack stand. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the FRONT/REAR wheels and tires.

***3.*** Remove sway bar link bolt using a 19mm socket. **[FIGURE 1]**

**FIG.1**





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***4.*** Remove the two bolts that hold on the brake line and ABS bracket to the knuckle using a 12mm socket. **[FIGURE 2 & 3]**

**FIG.2**

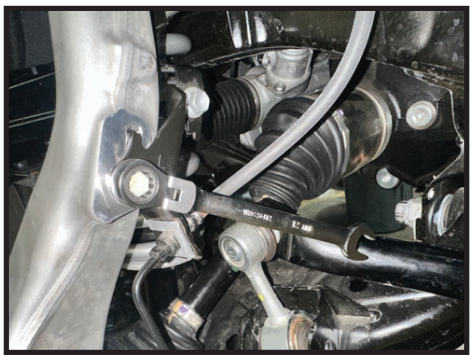




**FIG.3**

***5.*** Remove the ABS sensor from knuckle using a 10mm socket. **[FIGURE 4 & 5]**

**FIG.4**

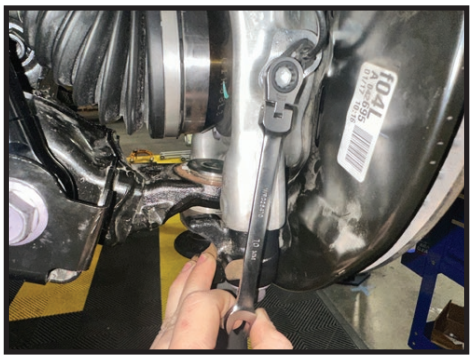




**FIG.5**

***6.*** Remove the brake caliper from the spindle using a 19mm. Once removed, use a strap or rope to support the caliper so it does not hang by the brake line. Remove the brake rotor and set aside. **[FIGURE 6 & 7]**

**FIG.6**





**FIG.7**

***7.*** Remove the cotter pin from the tie rod nut using pliers, then remove tie rod nut using 24mm. **[FIGURE 8 & 9]**

**FIG.8**





**FIG.9**

***8.*** Use a ball joint separator or a hammer to loosen the tie rod taper. **[FIGURE 10]**

**FIG.10**



***9.*** Remove the hub dust cap using a flat blade screwdriver. **[FIGURE 11]**

**FIG.11**



***10.*** Using a screw driver, pry up the indent in the nut and remove with a 35mm socket. **[FIGURE 12 & 13]**

**FIG.12**

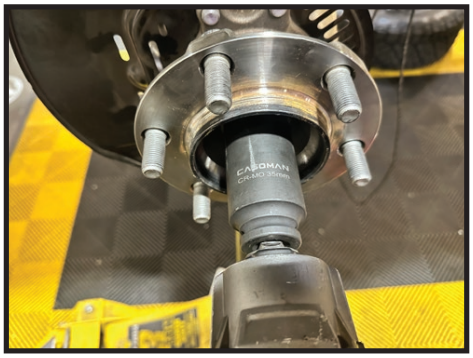




**FIG.13**

***11.*** Using a dead blow hammer, Hit the stub axle to free it form the hub. It will not come out completely yet. **[FIGURE 14]**

**FIG.14**



***12.*** Remove the lower two knuckle bolts using a 22mm socket. **[FIGURE 15 & 16]**

FIG.15

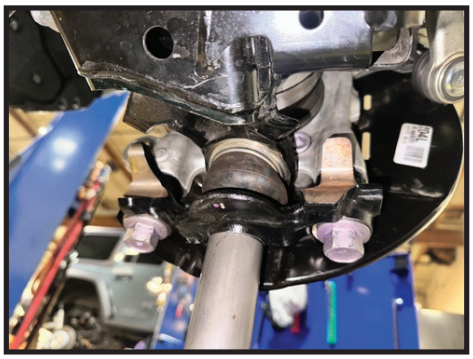


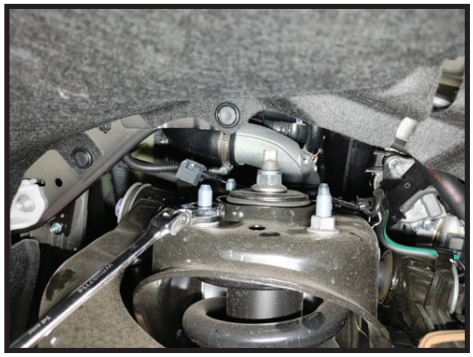


FIG.16

***13.*** Support the CV shaft and remove steering knuckle.

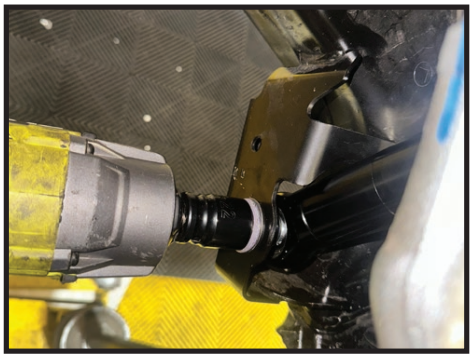
***14.*** Support the lower control arm. Using a 14, socket remove the four upper nuts from the factory coilover. **[FIGURE 17]**

FIG.17



***15.*** Remove the lower shock mount using a 22mm socket and wrench. **[FIGURE 18 & 19]**

FIG.18



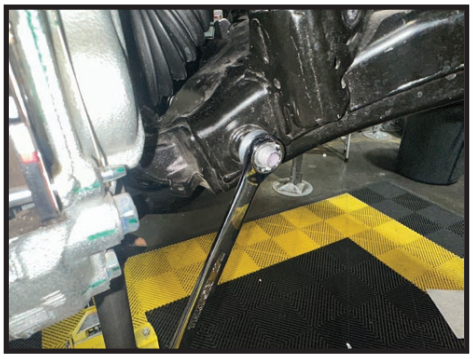
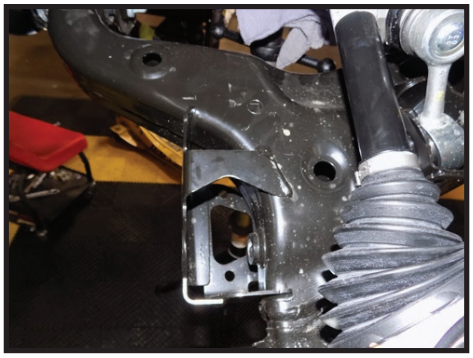


FIG.19

***16.*** Once the stock coilover is removed, you will need to sand the lower shock mount pocket 3/8" and paint afterwards. **[FIGURE 20 & 21]**

FIG.20



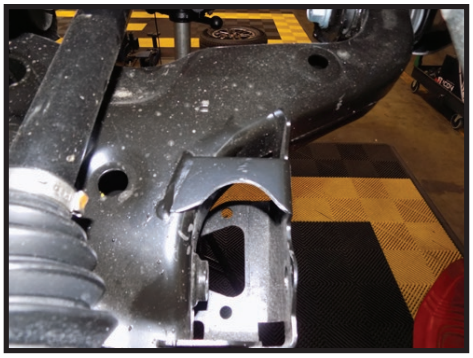


FIG.21

***17.*** Install the ICON coilover in the lower arm making sure the shock mount does not hit the shaft spacer. [Torque to factory specs] **[FIGURE 22]**

**FIG.22**



***18.*** Install the four 3/8 bolt into the upper mount using the washer, lock washer and the supplied thread locker using a 9/16 wrench. Torque to 35 ft-lbs. **[FIGURE 23]**

**FIG.23**



***19.*** Remove the factor rubber cover in front of the upper control arm on the frame using the two holes in the frame. Drill them to 11/32. **[FIGURE 24 & 25]**

**FIG.24**





**FIG.25**

***20.*** Line up the supplied resi bracket and install the supplied 3/8 self thread screw. **[FIGURE 26]**

**FIG.26**



***21.*** Use the supplied hose clamps to secure the resi to the bracket. **[FIGURE 27, 28 & 29]**

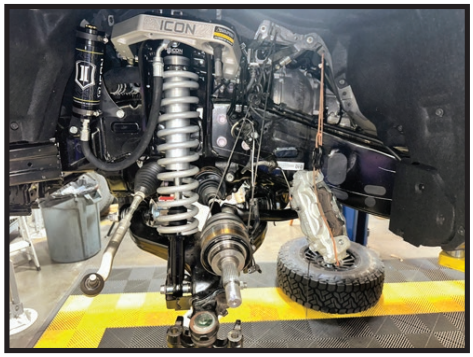
**FIG.27**





**FIG.28**

**FIG.29**




***22.*** Reinstall spindle, insert the stub axle back into the hub, making sure the splines are aligned. Insert the lower 2 bolts into the spindle. [Torque to factory specs]

***23.*** Install tie rod and nut. Torque to factory spec and reinstall cotter pin.

***24.*** Install the upper control arm balljoint into the spindle and secure with the nut.

***25.*** Torque the lower balljoint bolts to factory spec. Torque the upper balljoint to factory spec if using the OEM arm, or 70 ft-lbs for ICON Delta Joint Pro.

***26.*** Install the axle nut and torque to factory spec. Install nut lock plate and cotter pin. Then use a dead blow hammer to install the hub cap.

***27.*** Install rotor onto hub and install brake caliper back onto spindle. [Torque bolts to factory spec]

***28.*** Reconnect brake line and ABS brackets onto spindle.

***29.*** Install ABS sensor back into the spindle and the bracket

***30.*** Repeat steps on opposite side.

***31.*** Install wheels and tires, lower vehicle to the ground. Torque lug nuts.

***32.*** Get vehicle professionally aligned.

***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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