ICON Vehicle Dynamics K53294S Installation Instructions

Stage 4 Billet Triple Rate Suspension for Toyota Tacoma (2024-2025)

Part number: K53294S

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58552DJ INSTALLATION INSTRUCTIONS

10-24-2024 REV.B

PART #	DESCRIPTION
58552DJ	24 TACOMA 24 LC250 24 GX550 BILLET UCA KIT

COMPONENTS INCLUDED

(1) 157621 24 TACOMA LC 250 GX550 BILLET UCA DRVR	(1) 157622 24 TACOMA LC 250 GX550 BILLET UCA PASS

HARDWARE INCLUDED

(4) 157509 HEIM SPACER JM12 X 16MM X 1.875 CZINC (4) 157510 HEIM SPACER JM12 X 16MM X 2.875 CZINC	(2) 297165 DELTA PRO BILLET UCA DUST COVER (8) 605002 6-32 X 0.500 SHCS 18-8 RAW (2) 605890 M14 FENDER WASHER 36MM OD (1) 605968 VIBRATITE BLUE 2ML BULLET

TOOLS REQUIRED

JACK JACK STANDS #2 PHILLIPS SCREWDRIVER BODY CLIP REMOVAL TOOL SMALL FLAT BLADE SCREWDRIVER NEEDLE NOSE PLIERS TORQUE WRENCH	10MM SOCKET / WRENCH 12MM SOCKET / WRENCH 19MM SOCKET / WRENCH 22MM SOCKET / WRENCH 3/8 12-PT

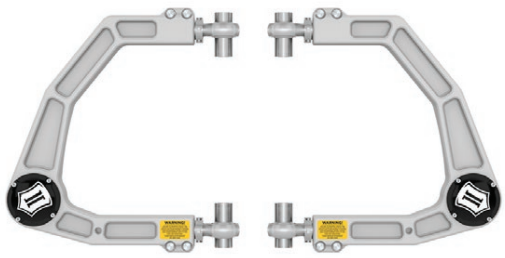
TECH NOTES

1. DO NOT EXCEED 1.875" ADJUSTMENT FROM THE CENTER OF THE ROD END TO THE EDGE OF THE BILLET UPPER CONTROL ARM. FAILURE CAUSED BY EXCESSIVE ADJUSTMENT WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY. REFER TO TECH NOTE 1 PHOTO ON PAGE 6.

2. ICON DELTA JOINTS ARE PRE-GREASED FROM THE FACTORY. ICON RECOMMENDS GREASING THE DELTA JOINT EVERY 3,000 MILES (OR EVERY OIL CHANGE). ADD NEW GREASE UNTIL ALL OF THE OLD GREASE IS EXPELLED FROM THE BOTTOM OF THE DELTA JOINT ASSEMBLY, WIPE AWAY EXCESS WITH A RAG OR SHOP TOWEL.

3. ALL ICON UPPER CONTROL ARMS HAVE BEEN ENGINEERED TO ALLOW FOR THE MOST POSSIBLE CASTER, WHILE STILL ALLOWING THE VEHICLE TO BE PROPERLY ALIGNED. NOTIFY YOUR PROFESSIONAL ALIGNMENT SHOP OF THIS INFORMATION SO THAT MAXIMUM RIDE QUALITY CAN BE ACHIEVED.

4. 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. Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.

2. If installing on a GX550 continue to ***[Step 3].*** If installing on a Tacoma, Land Cruiser 250, skip to ***[Step 13].***

3. Open the hood and disconnect the negative terminal on the battery using a 12mm and unplug the electrical connector.

4. Unplug the electrical connector on the air intake tube. **[FIGURE 1]**

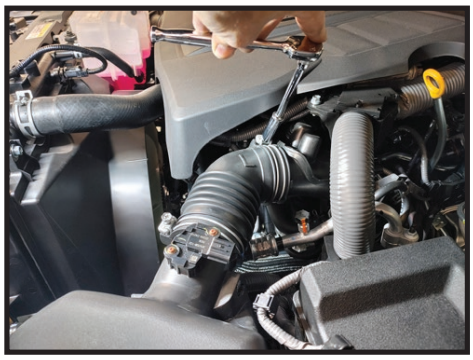
FIG.1



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5. Remove the airbox. Loosen the hose clamp with a #2 phillips screwdriver or 10mm on the air intake hose located closest to the engine. **[FIGURE 2]**

FIG.2



6. Lift up on box and remove. The box is only held in place by the intake tube and rubber grommets underneath.

7. With the box removed, remove the wiring clips from the ECU bracket. **[FIGURE 3 & 4]**

FIG.3



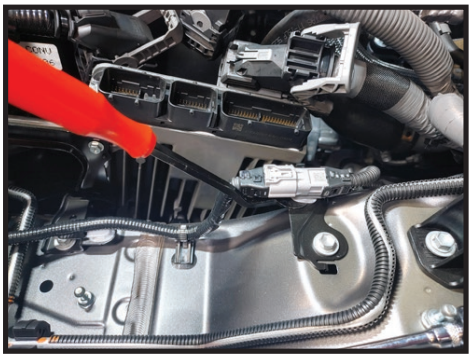


FIG.4

8. Unplug the small grey connector next to the ECU.

9. Unplug the ECU harnesses from the ECU. Push down on the safety latch and push the lever the opposite way. The connector will lift up and you will be able to remove it completely. **[FIGURE 5 & 6]**

FIG.5



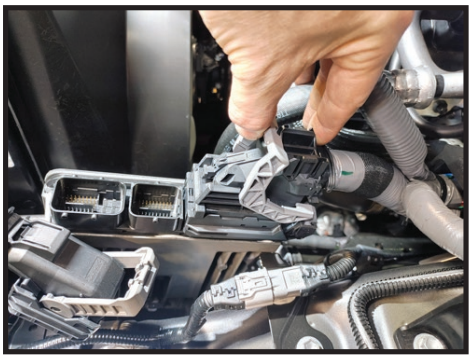
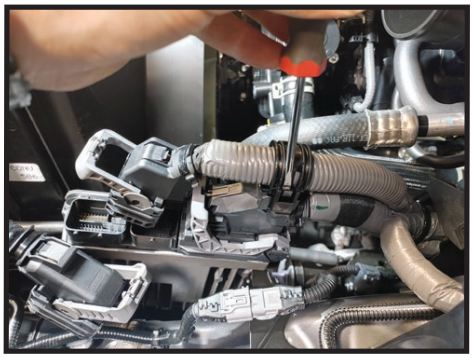


FIG.6

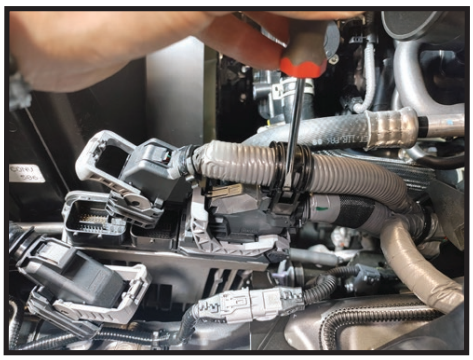
10. Remove the harness clamp from the large wire loom using a small flat blade screwdriver. **[FIGURE 7]**

FIG.7



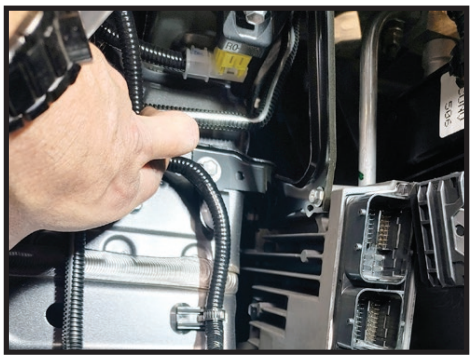
11. Remove the large harness from the ECU. Press lock clip and pull up on the grey lever and pulling plug out. **[FIGURE 8]**

FIG.8



12. Remove (3) 10mm bolts from the ECU bracket. One on the front core support, two on the fender well. **[FIGURE 9 & 10]**

FIG.9



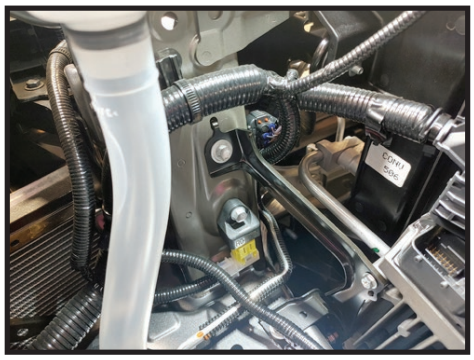


FIG.10

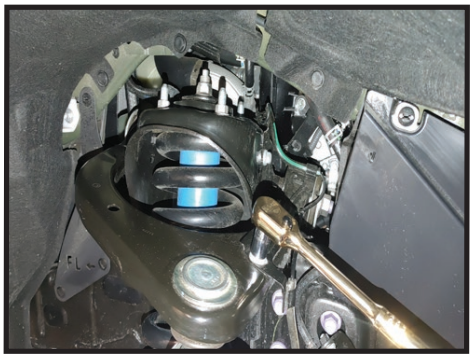
13. Remove the splash guards from the fender well using a needle nose pliers to pinch the clip and pull out. **[FIGURE 11]**

FIG.11



14. Remove the 12mm bolt from the top of the UCA that holds the ABS wire. **[FIGURE 12]**

FIG.12



15. Remove the cotter pin from the UCA balljoint using a small screwdriver or pick to pry over the safety clip and pull out the pin using a needle nose pliers. Loosen the 19mm nut on the balljoint. **[FIGURE 13 & 14]**

FIG.13





FIG.14

16. Use a hammer or balljoint separator to loosen the balljoint taper from the spindle. **[FIGURE 15]**

FIG.15



17. Loosen and remove the UCA pivot bolt from the frame using a 22mm. **[FIGURE 16]**

FIG.16



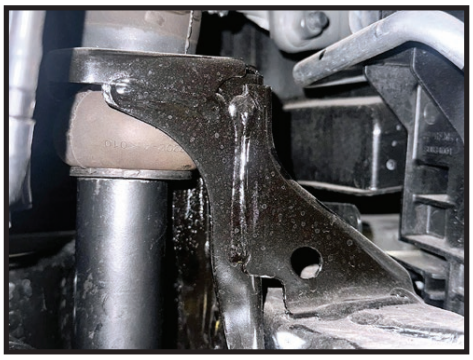
18. If installing on a GX550 skip to ***[Step 20]***. Locate the front driver side core support mount bushing. **[FIGURE 17]**

FIG.17



19. Using a jack carefully apply pressure to the driver front core support bolt this will lift the intercooler up enough to remove the UCA pivot bolt. **[FIGURE 18 & 19]**

FIG.18



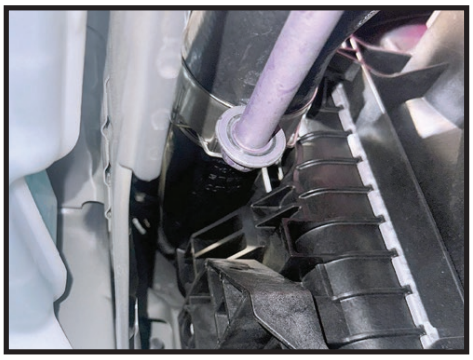


FIG.19

20. If installing on a GX550 remove the bolt from the UCA then remove the factory UCA If installing on a LC250 or Tacoma remove factory UCA. **[FIGURE 20]**

FIG.20



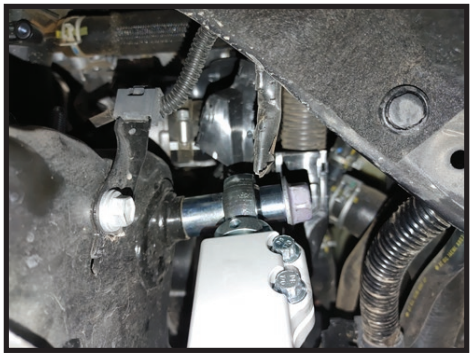
21. Prepare Icon Billet UCA for install. Be sure the heim spacers are correctly installed. Refer to photo. **[FIGURE 21]**

FIG.21



22. Install the ICON UCA into position and slide the factory mounting bolt through the heims, spacers and frame. **[FIGURE 22 & 23]**

FIG.22



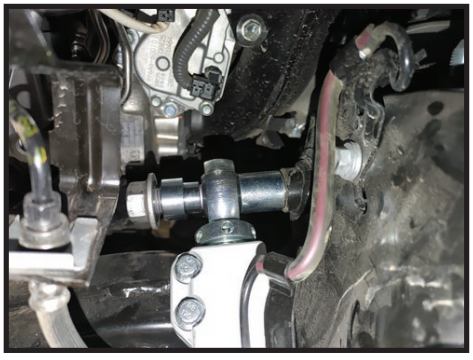


FIG.23

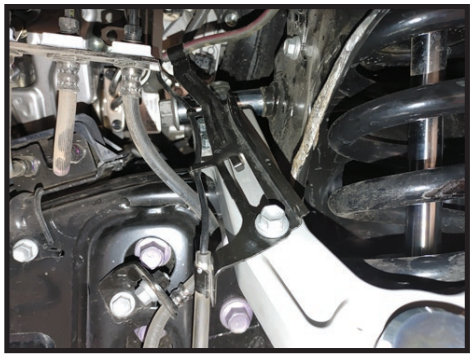
23. Install the Delta Joint Pro into the spindle, apply included blue thread locker to threads on flange nut and thread on to Delta Joint Pro with washer (605890) between the flange nut and spindle [Torque the nut to 70 ft-lbs]. **[FIGURE 24]**

FIG.24



24. Install the ABS bracket onto the Billet UCA using the factory bolt. **[FIGURE 25]**

FIG.25



25. Torque the factory long pivot bolt to OEM spec.

26. Install the supplied delta joint dust cap and o-ring using the four 6-32 x .500 stainless screws with a small amount of blue thread locker to the threads. **[FIGURE 26]**

FIG.26



27. If installing on a GX550 reinstall the ECU and airbox in reverse order of removal.

28. Repeat steps 2-15 on passenger side. There is no need for the jack on the core support on the passenger side.

29. Reinstall wheels and tires and carefully lower vehicle to the ground. Torque lug nuts to factory spec.

[TECH NOTE #1]



VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE. RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

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