

PART #	DESCRIPTION
55160	24 TACOMA FRONT DIFF DROP

COMPONENTS INCLUDED	
(1) 154190 24 TACOMA DIFF DROP DRIVER	(1) 154191 24 TACOMA DIFF DROP PASSENGER
HARDWARE INCLUDED	
(2) 605990 M16 X 1.5 HEX LOCK NUT CL8 (1) 605968 VIBRATITE BLUE 2ML BULLET	(4) 297028 HAT BUSHING 1.375 X .875 X .775 (2) 157563 SLEEVE .875 X .640 X 2.690
TOOLS REQUIRED	
FLOOR JACK JACK STANDS TORQUE WRENCH	PRY BAR 19MM 22MM 12MM HEX KEY
TECH NOTES	
1. INSTALL TIME: 30 MINUTES.	
2. AFTER INSTALL CHECK FLUE LEVEL AFTER DIFF ANGLE CHANGE MAKING SURE IT IS FULL.	



WARNING!
<p>** 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!</p> <p>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.</p> <p>** 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.</p>

INSTALLATION

1. Place the truck on a flat surface with the parking brake engaged, chock the rear 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.
3. Use the floor jack to support the front differential.

4. Remove the 12mm bolts and nuts from the diff mounts at the frame using a 19mm. [FIGURE 1 & 2]

FIG.1



FIG.2



- 5.** Remove the two 12mm bolts from the driver side diff mount at the diff using a 19mm (These bolts will be reused). **[FIGURE 3]**

FIG.3



- 6.** Remove the two 16mm bolts from the passenger side diff mounts at the diff using a 22mm (These bolts will be reused). **[FIGURE 4]**

FIG.4



- 7.** Assemble the bushings and sleeves into the new differential mounts. Apply a high quality moly grease to all surfaces of the bushings before pressing them into the mounts. Press the sleeves into the bushings once installed in the mount.

- 8.** Using a 12mm hex key loosen the rear diff mount.

- 9.** Install the mounts into the frame tabs and onto the diff. The Driver side first, use the OEM bolt and nut on the frame side and the differential side. Do not tighten yet. **[FIGURE 5 & 6]**

FIG.5



FIG.6



- 10.** Install the passenger mount now reusing all OEM hardware and the two supplied M16 nuts. **[FIGURE 7 & 8]**

FIG.7

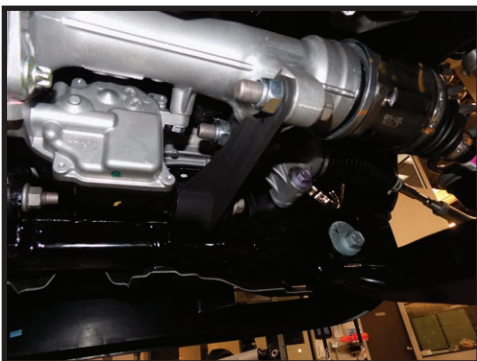


FIG.8



- 11.** Once all the bolts are installed, begin torquing them as follows.
- 12.** M12 bolt and nut: 70 ft-lbs.
- 13.** M16 bolts and nuts on passenger mount: 150 ft-lbs
- 14.** M12 hex key torque to 74 ft-lbs.
- 15.** Be sure to check fluid in the differential making sure it filled to the correct level after differential angle change.

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

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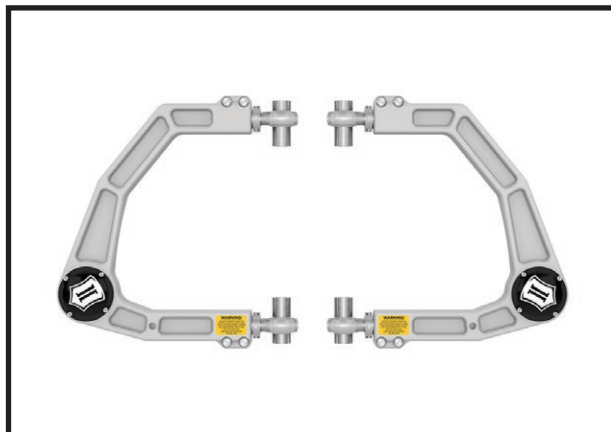


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PART #	DESCRIPTION
58552DJ	24 TACOMA 24 LC250 24 GX550 BILLET UCA KIT

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	
<p>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.</p> <p>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.</p> <p>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.</p> <p>4. ESTIMATED INSTALL TIME: 3 HOURS.</p>	



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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



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



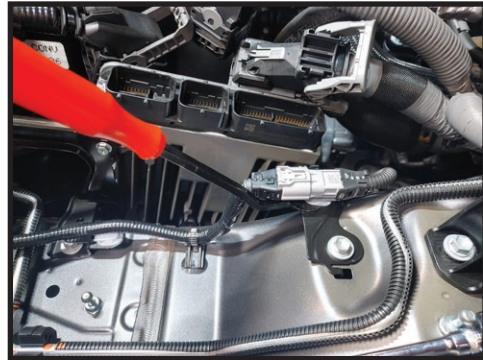
6. Lift up on box and remove. The box is only held in place by the intake tube and rubber grommets underneath.

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



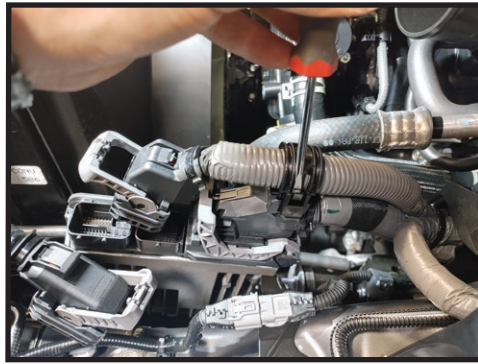
10. Remove the harness clamp from the large wire loom using a small flat blade screwdriver. [FIGURE 7]

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

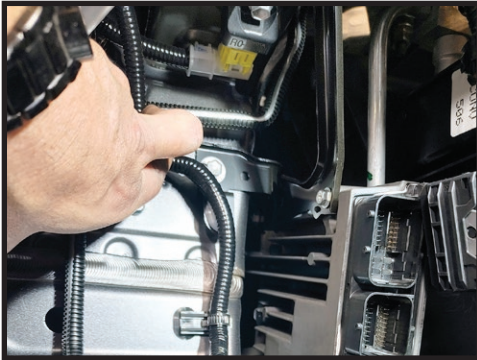


FIG.10



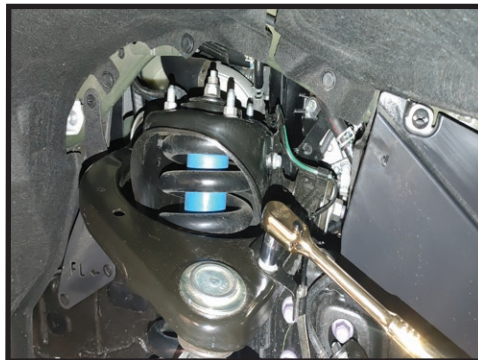
- 13.** Remove the splash guards from the fender well using a needle nose pliers to pinch the clip and pull out. [FIGURE 11]

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

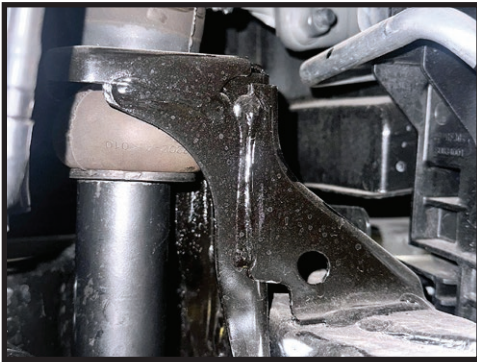
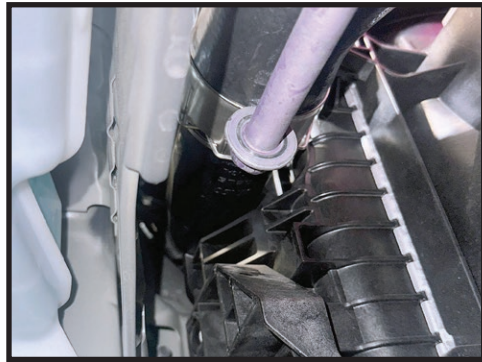


FIG.19



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



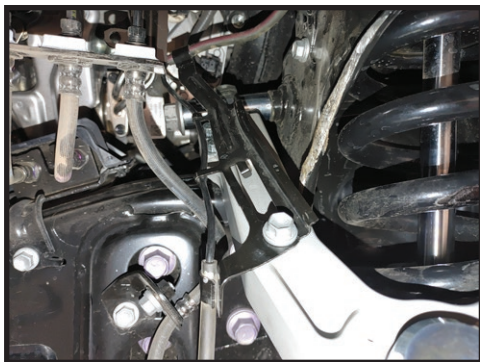
23. Install the Delta Joint Pro into the spindle, apply included blue thread locker to threads on flange nut and thread on to Delta Joint Pro with washer (605890) between the flange nut and spindle [Torque the nut to 70 ft-lbs]. [FIGURE 24]

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]



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TORQUED BEFORE DRIVING VEHICLE.
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PART #	DESCRIPTION
58680	24 TACOMA 2.5 VS COILOVER KIT

COMPONENTS INCLUDED

(2) 154602 24 TACOMA 2.5 VS CO (1) 611025 HARDWARE KIT (1) 150143 FRONT DRVR RESI MOUNT	(1) 150144 FRONT PASS RESI MOUNT (1) 611051 HOSE CLAMP KIT
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HARDWARE INCLUDED

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

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



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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



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

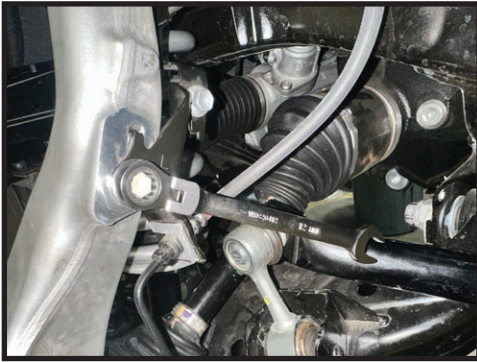


FIG.3



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 from 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

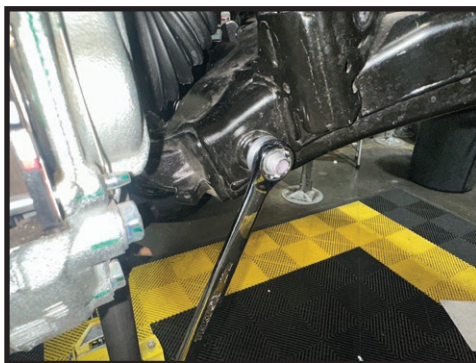


15. Remove the lower shock mount using a 22mm socket and wrench. [FIGURE 18 & 19]

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

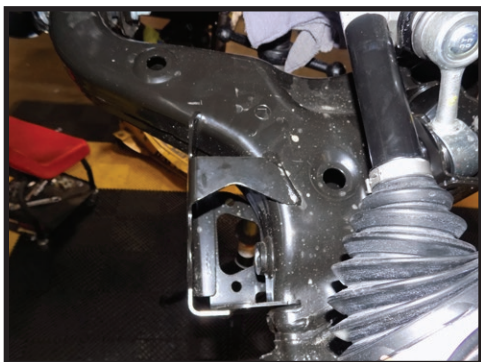
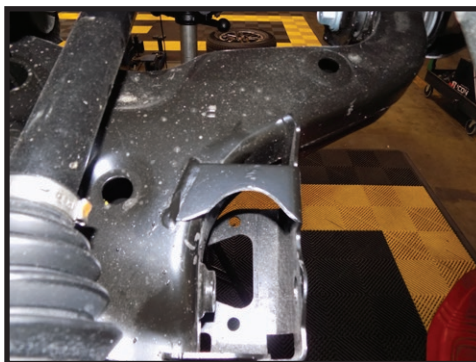


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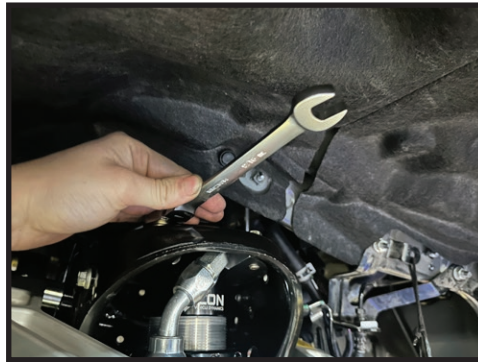
17. Install the ICON coilover in the lower arm making sure the shock mount does not hit the shaft spacer. [Torque to factory specs] [FIGURE 22]

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. 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]

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

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

22. 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.

23. 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.

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

25. Reconnect brake line and ABS brackets onto spindle.

26. Install ABS sensor back into the spindle and the bracket

27. Repeat steps on opposite side.

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

29. Get vehicle professionally aligned.

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