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PART #	DESCRIPTION
51010	22-23 TOYOTA TUNDRA 6" CROSS MEMBER KIT
51011	22-23 TOYOTA TUNDRA 6" FRONT BOX KIT
51014	22-23 TOYOTA TUNDRA 6" FRONT KNUCKLE KIT
51017	22-23 TOYOTA TUNDRA 6" FRONT SKID PLATE



COMPONENTS INCLUDED

<p>51010 INCLUDES:</p> <ul style="list-style-type: none"> (1) 154170 22 TUNDRA FRONT CROSS MEMBER (1) 154171 22 TUNDRA REAR CROSS MEMBER <p>51014 INCLUDES:</p> <ul style="list-style-type: none"> (1) 158100D STEERING KNUCKLE DRIVER (1) 158100P STEERING KNUCKLE PASSENGER (4) 157030 22 TUNDRA STEERING STOP (8) 605993 1/4-20 X 1 SHCS 18-8 <p>51017 INCLUDES:</p> <ul style="list-style-type: none"> (1) 154177 22 TUNDRA 6" DIFF SKID PLATE 	<p>51011 INCLUDES:</p> <ul style="list-style-type: none"> (1) 150133 22 TUNDRA FRONT UPPER BRAKELINE BRKT DRIV (1) 150134 22 TUNDRA FRONT UPPER BRAKELINE BRKT PASS (1) 150135 22 TUNDRA FRONT LOWER BRAKELINE BRKT DRIV (1) 150136 22 TUNDRA FRONT LOWER BRAKELINE BRKT PASS (1) 150138 22 TUNDRA KNUCKLE ABS BRKT DRIV (1) 150139 22 TUNDRA KNUCKLE ABS BRKT PASS (1) 150141 22 TUNDRA KNUCKLE BRAKELINE BRKT DRIV (1) 150142 22 TUNDRA KNUCKLE BRAKELINE BRKT PASS (2) 154160 22 TUNDRA TIE ROD (1) 154175 22 TUNDRA 4" SWAY BAR DROP DRIV (1) 154176 22 TUNDRA 4" SWAY BAR DROP PASS (2) 154184 22 TUNDRA FRONT BUMP STOP EXTENSION (1) 154185 22 TUNDRA FRONT BUMP STOP SUPPORT DRIV (1) 154186 22 TUNDRA FRONT BUMP STOP SUPPORT PASS
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HARDWARE INCLUDED

51010H HARDWARE KIT	51011H HARDWARE KIT
<ul style="list-style-type: none"> (2) 605824 M18-2.50 X 160MM HHCS GR10.9 YZINC (2) 605820 M18-2.50 X 160MM HHCS GR10.9 YZINC (4) 605833 M18-2.5 C-LOCK GRC CZINC (8) 605832 M18 FALT WASHER GR 10.9 YZINC (1) 605969 VIBRATITE RED 2ML BULLET 	<ul style="list-style-type: none"> (1) 295003-08 8" TUNDRA BREATHER HOSE (4) 605330 1/2 SAE FLAT WASHER GR9 YZINC (4) 605302 1/2-13 X 1.500 HHCS GR8 YZINC (4) 605333 1/2-13 FLANGED NYLOCK NUT GRG YZINC (16) 605016 5/16 SAE FLAT WASHER GR8 YZINC (8) 605011 5/16-18 X 0.750 HHCS GR8 YZINC (8) 605015 5/16-18 NYLOCK NUT GR5 CZINC (4) 605060 1/4-20 X .599 LO PRO BHCS BOXIDE (2) 605830 M10-1.25 SERRATED FLANGE NUT GR8.8 CZINC (2) 605808 M10-1.25 X 25MM SHCS (2) 605866 M10 FLAT WASHER SS (6) 605121 3/8-16 NYLOCK NUT GR8 CZINC (6) 605101 3/8-16 X 1.000 HHCS GR8 YZINC (12) 605133 3/8 SAE FLAT WASHER GR8 YZINC (4) 605321 1/2-13 NYLOCK NUT GR8 YZINC (4) 605301 1/2-13 X 1.250 HHCS GR8 YZINC
51017H HARDWARE KIT	
<ul style="list-style-type: none"> (5) 605301 1/2-13 X 1.250 HHCS GR8 YZINC (5) 605333 1/2-13 FLANGED NYLOCK NUT GRG YZINC (5) 605330 1/2 SAE FLAT WASHER GR8 YZINC (1) 605969 VIBRATITE RED 2ML BULLET 	

TOOLS REQUIRED

<ul style="list-style-type: none"> JACK JACK STANDS SPRING COMPRESSOR BALL JOINT SEPERATOR FLAT BLADE SCREWDRIVER PLIERS TORQUE WRENCH RATCHETS 	<ul style="list-style-type: none"> HAMMER 4.5" GRINDER WITH CUT OFF WHEEL, RECIPRICATING SAW, DIE GRINDER WITH SANDING PAD 10, 12, 13, 14, 17, 19, 21, 22, 24, 26 SOCKET/WRENCH 38MM 12 POINT AXLE NUT SOCKET 5/32 HEX KEY 1/2", 9/16", 3/4" SOCKET/WRENCH
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TOOLS REQUIRED

<ol style="list-style-type: none"> 1. INSTALL TIME: 6-8 HOURS 2. LIFT HEIGHTS INDICATED ARE FOR A STOCK EQUIPPED VEHICLE. INCREASING EIGHT OF VEHICLE DUE TO ACCESSORIES WLL ALTER LIFT RANGE. 3. NOT COMPATIBLE WITH TUNDRAS EQUIPPED WITH LOAD-LEVELING REAR HEIGHT CONTROL AIR SUSPENSION. 	<p>WARNING!</p> <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>
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INSTALLATION

1. Open and inspect all hardware and components. Compare to the lists above to be sure all hardware and components are present. Contact ICON customer service if anything is missing.
2. Place vehicle in park on a level surface. Engage parking brake. Lift front of vehicle and place jack stands under the frame, near the front body mounts. Remove the front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE.
3. Disconnect the sway bar link from the lower arm using a 19mm. Use a dead blow hammer to remove the link from the stud on the lower arm. Reinsert the bolt into the arm to keep track of it. [FIGURE 1]

FIG.1



4. Loosen and remove the sway bar from the frame using a 17mm. The skid plate/splash shield may need to be removed to access the sway bar brackets.
5. Remove the 2 12mm bolts that hold the brake line and speed sensor bracket to the spindle. [FIGURE 2]

FIG.2



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 3 & 4]

FIG.3

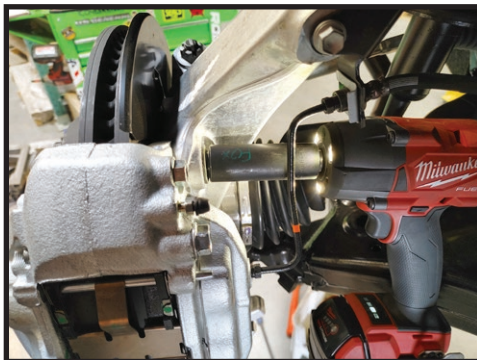
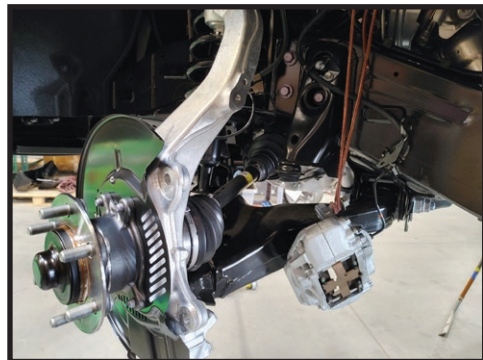


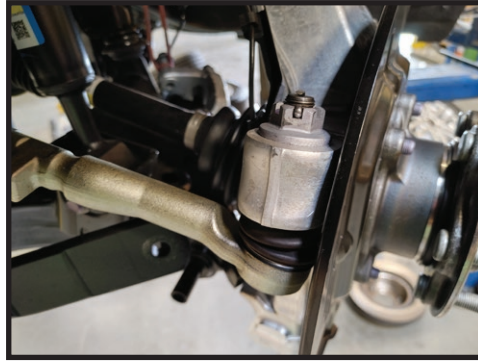
FIG.4



7. Loosen the jam nut on the tie rods.

8. Use a pliers to remove the cotter pin from the tie rod nut/stud. Remove the tie rod nut using a 24mm. [FIGURE 5]

FIG.5



9. Use a ball joint separator or a hammer to loosen the tie rod stud taper from the spindle. Remove the outer tie rod from the inner tie rod. [FIGURE 6]

FIG.6



10. Remove the wheel speed sensor from the front side of the spindle using a 10mm. Remove the bracket from the spindle using a 12mm. [FIGURE 7 & 8]

FIG.7



FIG.8



11. Remove the hub cap from the hub using a flat blade screwdriver to pry it away and off. [FIGURE 9 & 10]

FIG.9

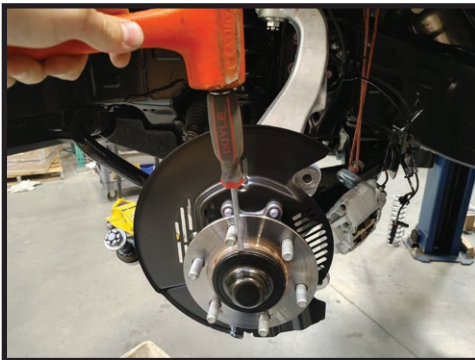
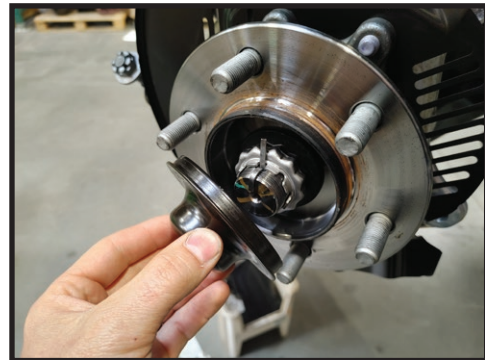
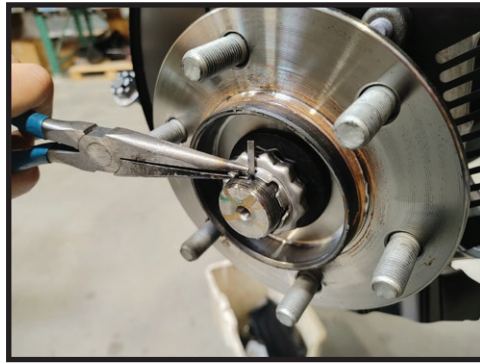


FIG.10



12. Use a pliers to remove the cotter pin holding the nut lock plate in place. [FIGURE 11]

FIG.11



13. Use a 38mm 12 point socket on an impact wrench to remove the axle nut. [FIGURE 12]

FIG.12



14. Use a deadblow hammer to hit the stub axle free of the hub. It won't come completely out of the hub yet.

15. Remove the cotter pin from the upper control arm stud/nut.

16. Use a 19mm to loosen the upper control arm ball joint nut. [FIGURE 13]

FIG.13



17. Use a 22mm to remove the 2 bolts from the bottom side of the spindle. Remove spindle being sure the stub axle comes out of the spindle. [FIGURE 14 & 15]

FIG.14

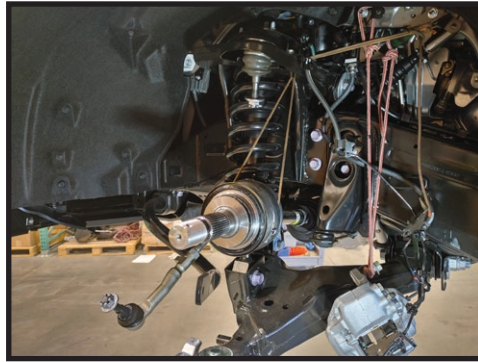


FIG.15



18. Use a rope or strap to support the cv/axle assembly out of the way. [FIGURE 16]

FIG.16

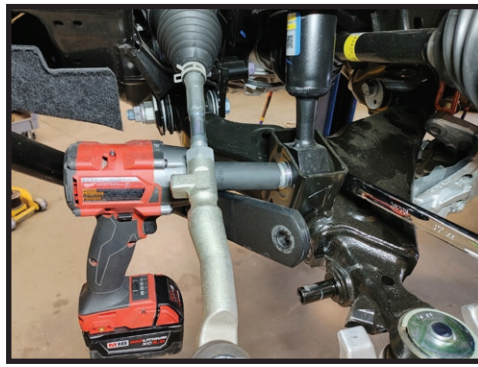


19. Remove the lower ball joint cotter pin and nut using a 24mm. Use a ball joint spreader to dislodge the taper from the knuckle adapter. Set aside, it will not be reused.

20. Support lower control arm and loosen the pivot bolts at the frame using a 24mm.

21. Remove the lower shock bolt using a 22mm. [FIGURE 17]

FIG.17



22. Remove upper shock mount nuts using a 14mm. [FIGURE 18]

FIG.18



23. Lower the control arm and remove the coilover assembly. [FIGURE 19]

FIG.19



24. Remove the bumpstop from the frame using a large adjustable wrench. [FIGURE 20]

FIG.20



25. Remove the lower control arm from the frame using a 24mm to loosen and remove the pivot/alignment bolts. Set aside the bolts as they will be reused.

26. Repeat all steps on passenger side.

27. Next will be to remove the front differential.

28. Remove the driveshaft from the back of the front differential using a 14mm. A pry bar or large screwdriver can be wedged between the frame and U-joint to keep the driveshaft from spinning.

29. The front axles can be removed from the diff using a screw driver or pry bar between the dust cover and diff and prying the axle out. The axle is held in place with a compression snap ring. Care should be taken not to damage the seal that is under the dust cover. The axles can be left in place, be careful not to let the CVs over-extend as damage can occur.

30. Disconnect the wiring harness from above the steering rack. Follow the wires that connect to the diff. Unplug the connector and remove the retaining clip so the differential can be removed. [FIGURE 21]

FIG.21



31. Remove the vent line from the top driver side of the differential. [FIGURE 22]

FIG.22



32. Support the front diff with a jack for removal. Remove the 2 bolts from the rear diff mount and diff using a 22 mm. Use a 12mm hex key and remove the purple nut from the rear diff mount from the rear cross member. Jack up the diff up until the rear mount can be removed.

33. Use a 19mm to remove the 2 bolts from the driver side diff and diff mount. Remove the 3 bolts from the passenger side diff mount using a 22mm. [FIGURE 23 & 24]

FIG.23



FIG.24



34. Use a 19mm to remove the 2 diff mounts from the front cross member. Slowly lower and remove the front diff and axles from the vehicle. [FIGURE 25 & 26]

FIG.25



FIG.26



35. With the diff removed, the rear cross member can be cut to clear the lowered differential. Using the photos below as a guide, mark where to cut. Use a cut off wheel or reciprocating saw to cut off the marked section. Clean the edges and spray paint to prevent rust and corrosion from forming. [FIGURE 27 & 28]

FIG.27



FIG.28



36. Install the new front ICON cross member. The stainless-steel shield designates the front of the front cross member. Loosely install the hardware. M18-2.50 X 130mm will be used. Install a washer under the head of the bolt before installing into the frame. Then a washer and C-lock nut. Leave the hardware loose for now. [FIGURE 29]

FIG.29



37. Replace the factory vent line with the supplied longer hose.

38. Lift the differential back in place. Reinstall the diff mounts and bolts into their respective tabs. Use a jack to hold the diff in place while the rear cross member is installed. Be sure not to pinch the wiring harness.

39. Reconnect the wiring harness and vent line.

40. With the diff in place, install the rear ICON cross member using the supplied hardware. The differential mounting tab will point to the rear of the truck. Use the remaining M18 hardware to secure the cross member to the frame mounts. Leave the hardware loose for now. [Figure 30]

FIG.30



41. Install the rear diff mount using the factory nut and bolts. Install the front mounts and bolts now. Check the clearance between the diff and the frame that was cut. Make sure the diff housing is not rubbing against the frame. [FIGURE 31 & 32]

FIG.31



FIG.32



42. Install the lower control arms into the cross-member brackets using the factory hardware. The longer bolt goes in the rear mount. Make sure the cam washer fits between the tabs on the brackets. [FIGURE 33 & 34]

FIG.33



FIG.34



43. The remaining steps can be completed on the left and right side simultaneously.

44. With both lower arms installed, you can now tighten the M18 bolts. Use thread locker on the threads. The alignment bolts need to be tightened once the truck is back on the ground.

45. Install the new bump stop extension using the supplied M10 Bolt and washer. Use thread locker. The extensions fit on both sides.

46. Install the bump stop extension support that connects to the rear cross member. The supports are left/right specific. The hardware on the extension is 3/8-16 x 1.000, washers and nylock nuts. The hardware for the support to cross member is 1/2-13x1.250, washers and nylock nut. Tighten the hardware once all the bolts and nuts are installed. Install the bump stop into the extension using the supplied M10-1.25 serrated nut and thread locker. [FIGURE 35]

FIG.35



47. Remove the upper control arm, if an ICON UCA has been purchased. If continuing to use the OEM UCA, leave it installed.

48. Move onto the OEM knuckle now. You want to remove the hub/bearing assembly. Use a 12mm hex key to loosen and remove the 4 bolts holding the hub to the knuckle. The rotor splash shield will come off with the hub assembly. Note the orientation.

49. Grab the ICON knuckle and install the hub and rotor splash shield in the same way it was removed from the OEM knuckle. Torque the bolts to 120 ft-lbs. Apply thread locker.

50. Install the steering stops, Using the 1/4-20 X 1 stainless screws. Apply blue thread locker before installing and tightening the screws. Torque to 6 ft-lbs.

51. Reinstall the axles now, if removed. Be sure the dust seal inside the differential is not cut. When inserting the axles, push in by hand until they stop, then grab a dead blow hammer, hold the axle straight out and hit the end of the axle until you feel it seat into the differential completely.

52. If any oil leaked out of the differential during removal, refill it now, with the proper spec oil. Refer to owner's manual.

53. Install the knuckle onto the lower ball joint. Rotate the ball joint so it is pointing outwards, insert the threaded end of the axle shaft into the knuckle, then slip the knuckle onto the stud and secure it with the OEM nut. Tighten the nut to OEM spec and secure it with the cotter pin.

54. Install the coil-over now. If no coil-over was purchased, install the coil spacer onto the top of the OEM coil-over and tighten the nuts to 35 ft-lbs. Install the coil-over and spacer assembly into the truck and secure with OEM nuts and bolts. Tighten the upper nuts to 35 ft-lbs. Tighten the lower pivot to OEM spec.

55. Install the axle shaft into the hub and lift the spindle so the upper balljoint can be connected and secured with the nut and cotter pin.

56. Install the axle nut and torque to OEM spec, then install the locking nut with cotter pin. Install dust cover.

57. Install the rotor, secure it with a lug nut, then install the brake caliper, making sure the lines are not twisted. Apply thread locker to the bolts and torque to 100 ft-lbs.

58. Route the speed sensor wires and brake lines so the brackets can be secured, to the knuckle using the 1/4-20 BHCS. The speed sensor wire clips will have to be carefully removed from the factory bracket and installed into the new ICON bracket. Use a needle nose or similar pliers to squeeze the backside of the clips and push them out of the bracket. [FIGURE 36 & 37]

FIG.36



FIG.37



59. Insert the speed sensor into the knuckle, using grease to lubricate the o-ring. Reuse the OEM bolt and tighten.

60. Install the OEM splash shield/skid plate that goes under the radiator, if it was removed.

61. Install the sway bar drop brackets onto the frame. The mounts are a mirror of each other. The flat side with shield should face out. Use the OEM bolts to secure the bracket to the frame. Snug the bolts.

62. Install the sway bar onto the mounts using the 1/2-13 x 1.500 bolts, washers and flanged nylock nuts. Tighten the 1/2" bolts to 70 ft-lbs. Tighten the OEM bolts to OEM specs.

63. If the sway bar links were removed from the sway bar, reinstall them now, then hook them back up to the lower control arm stud. This might need to be done when the truck is on the ground.

64. Install the new ICON tie rod and jam nut onto the OEM inner tie rod. The tie rods are identical, no left/right. Adjust the tie rod length so the knuckle assembly is visually straight. Install the tie rod stud into the knuckle from the top side. Install the supplied nylock nut and tighten to 50 ft-lbs. Tighten the tie rod jam nut.

65. If purchased, install the skid plate now. Using 1/2-13 x 1.250" bolts and washers and flanged nylock nuts. Start with rear center mounting hole. A second set of hands will be helpful to hold the skid plate in place. Then install the remaining 4 bolts. 2 in the rear corners, and 2 in the front, that go through the front cross member. [FIGURE 38, 39, 40, 41]

FIG.38

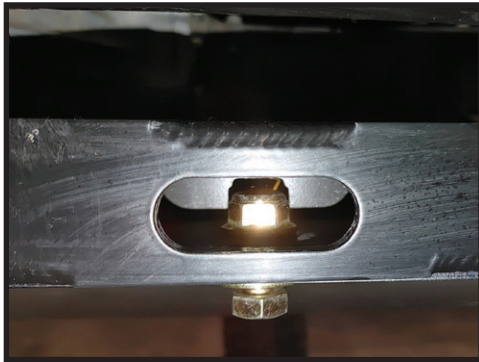


FIG.39



FIG.40



FIG.41



66. Install new wheels and tires. Set vehicle on ground and torque the lower arm pivots. 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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PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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PART #	DESCRIPTION
51012	22-23 TUNDRA REAR BOX KIT

COMPONENTS INCLUDED

(1) 150128 22 TUNDRA REAR UPPER BRAKELINE BRACKET (1) 150129 22 TUNDRA REAR LOWER BRAKELINE BRACKET (1) 150131 22 TUNDRA REAR UPPER LINK BRACKET DRV (1) 150132 22 TUNDRA REAR UPPER LINK BRACKET PASS	(1) 154172 REAR TRACK BAR BRACKET (1) 154173 22 TUNDRA REAR SWAY BAR LINK MNT DRV (1) 154174 22 TUNDRA REAR SWAY BAR LINK MNT PASS (2) 154189 22 TUNDRA REAR FOAM AXLE PAD 6"
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HARDWARE INCLUDED

51012H HARDWARE KIT

(1) 159690 SLEEVE 1.000 X 0.561 X 1.580 CZINC (2) 159691 SLEEVE 1.250 X 0.561 X 2.715 CZINC (2) 290024 WASHER .939" X .505 X .505 (2) 605011 5/16-18 X 0.750 HHCS GR8 YZINC (2) 605015 5/16-18 NYLOCK NUT GR5 CZINC (4) 605016 5/16 SAW FLAT WASHER GR8 YZINC (1) 605101 3/8-16 X 1.000 HHCS GR8 YZINC (1) 605121 3/8-16 NYLOCK NUT GR8 CZINC (2) 605133 3/8-16 SAE FLAT WASHER GR8 YZINC (1) 605202 7/16-14 X 1.250 HHCS GR8 YZINC (1) 605220 7/16-14 NYLOCK NUT GR8 YZINC	(2) 605300 1/2-13 X 1.000 HHCS GR8 YZINC (4) 605301 1/2-13 X 1.250 HHCS GR8 YZINC (6) 605321 1/2-13 NYLOCK NUT GR8 YZINC (12) 605330 1/2 SAE FLAT WASHER GR8 YZINC (2) 605443 9/16-12 X 4.500 HHCS GR8 YZINC (1) 605445 9/16-12 X 3.000 HHCA GR8 YZINC (6) 605455 9/16 FLAT WASHER YZINC (3) 605450 9/16-12 C-LOCK NUT GR5 CZINC (2) 605926-BLK 5-1/2 X 0.14 NYLON CABLE TIE, BLACK
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TOOLS REQUIRED

JACK JACK STAND RATCHET EXTENSIONS TORQUE WRENCH HAMMER / DEADBLOW HAMMER PLIERS 1/2 SOCKET / WRENCH 9/16 SOCKET / WRENCH	5/8 SOCKET / WRENCH 3/4 SOCKET / WRENCH 13/16 SOCKET / WRENCH 7/8 SOCKET / WRENCH 8MM SOCKET / WRENCH 10MM SOCKET / WRENCH 17MM SOCKET / WRENCH 19MM SOCKET / WRENCH
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TECH NOTES

1. ESTIMATED INSTALL TIME: 3-4 HOURS.
2. NOT COMPATIBLE WITH AVS EQUIPPED TRUCKS.
3. NOT COMPATIBLE WITH AIR RIDE EQUIPPED TRUCKS.
4. NOT COMPATIBLE WITH TRD PRO



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!**

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**** 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 truck on flat ground, engage parking brake, block tires.
2. Remove the track bar before lifting the vehicle, as the track bar is under less load now and is easier to remove. Use a 19mm.

3. Lift rear of vehicle and place jack stands under the frame. The floor jack can be used under the axle for future steps. Do not work under an unsupported vehicle. Remove rear tires. Removing the spare tire can make this easier, refer to owners manual.

4. Remove the rear shocks, using a 17mm for the lower mounting stud, and a 8mm and 19mm for the upper bushing mount. Support the rear axle so it does not drop. [FIGURE 1 & 2]

FIG.1



FIG.2



5. Loosen and remove the brake line brackets from the frame and passenger upper link mount using a 10mm. [FIGURE 3 & 4]

FIG.3



FIG.4



6. Using a 10mm, loosen and remove the brake line clamp from the backside of the center of the axle. The clamp will need to be spread and removed from the line, then flipped over and reattached. The same will need to be done for the clamp that is attached to the backside of the passenger upper link mount. [FIGURE 5 & 6]

FIG.5



FIG.6



7. Remove the E-locker wiring bracket from the frame using a 10mm.

8. Install the upper ICON brake line drop bracket onto the frame using the OEM hardware. Torque the bolt to 80 in/lbs. Then secure the OEM brake line bracket to the ICON bracket using a 5/16-18 x .750 bolt, washers and nylock nut. Torque to 10 ft-lbs. [FIGURE 7]

FIG.7



9. Install the ICON lower bracket line riser to the upper link mount using the OEM hardware and torque to 80/in lbs. Then secure the OEM brake line bracket to the ICON bracket using a 5/16-18 x .750 bolt, washers and nylock nut. Torque to 10 ft-lbs. [FIGURE 8 & 9]

FIG.8



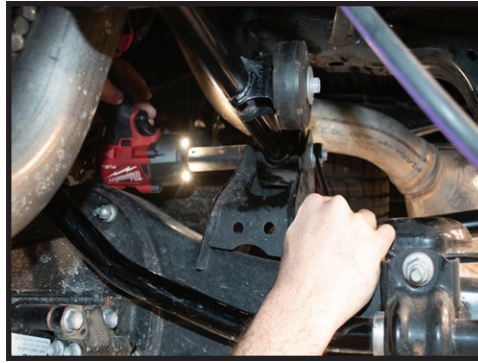
FIG.9



10. Slowly lower the axle down to free the coil springs. Set them aside, they will be reused if spring spacers were ordered. The left/right springs are the same. You can label them if you feel the need to.

11. Remove the upper link from the axle mount using a 19mm. Loosen the bolt and not the nut. The nut has small tangs that dig into the mount and act as a locking nut. If you loosen the nut, it will become damaged. [FIGURE 10]

FIG.10



12. Loosen the frame side pivot also. You can leave the bolt in place if you are not installing Icon links. [FIGURE 11]

FIG.11



13. Install the upper link bracket from the kit as shown. Using the supplied 1/2-13 x 1.25" bolts with washers and nylock nuts on the lower holes. Use the longer sleeve (2.715") to put in place of the link and the 9/16-12 x 4.5" bolt with washers and c-lock nut to secure the spacer and bracket. Reinstall the upper link into the new mounting position using the factory hardware. Torque the 1/2" bolts to 80 ft-lbs. Torque the 9/16" bolt to 110 ft-lbs. If ICON links were installed torque the OEM bolts to 110 ft-lbs now. If OEM links are installed, wait until the truck is under its own weight to torque, as the bushings can be damaged if torqued now. [FIGURE 12 & 13]

FIG.12

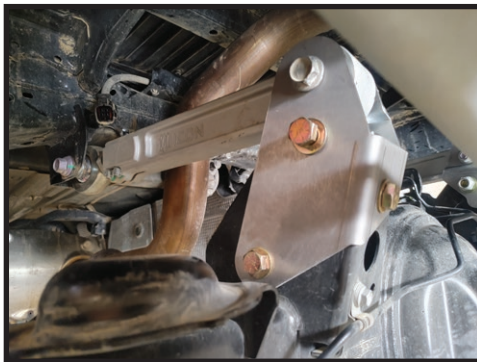


FIG.13



14. Install the trackbar bracket as shown. Use the 7/16-14 x 1.25" with washer and nylock nut. The bolt goes in from the top and the nut will need to be held with a pliers through the slot in the back of the axle mount. Depending on the truck, a pry bar might be needed to open the slot up and allow the nut to fit. Use the 3/8-16 x 1" bolt, washers and nylock nut to secure the bracket to the front side of the axle mount.

Use the OEM bolt and the remaining sleeve (1.580") and loosely secure it into the factory position. Then use the 9/16-12 x 3" bolt, washers and c-lock nut to secure the track bar into the ICON bracket. Torque the 9/16 bolt to 110 ft-lbs. Torque the 7/16" bolt to 50 ft-lbs. Torque the 3/8" bolt to 30 ft-lbs. Torque the OEM bolt to 110 ft-lbs (Icon track bar can be torqued now, OEM trackbar needs to be torqued once the truck is under its own weight). [FIGURE 14 & 15]

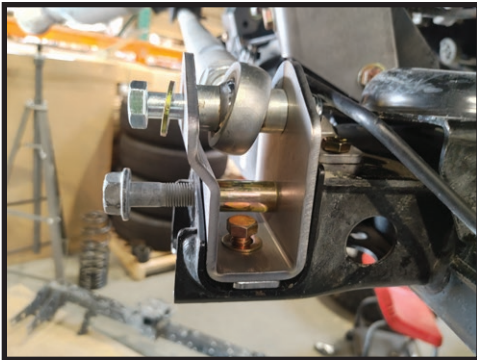


FIG.14



FIG.15

15. Loosen and remove the sway bar links from the frame mounts using a 17mm. Then remove the mount from the frame using a 17mm. The bolts will be reused. [FIGURE 16 & 17]



FIG.16



FIG.17

16. Install the new sway bar link mounts to the frame as shown. Use the OEM hardware and torque to 70 ft-lbs. Torque the Sway bar link nut to 50 ft-lbs. [FIGURE 18 & 19]



FIG.18

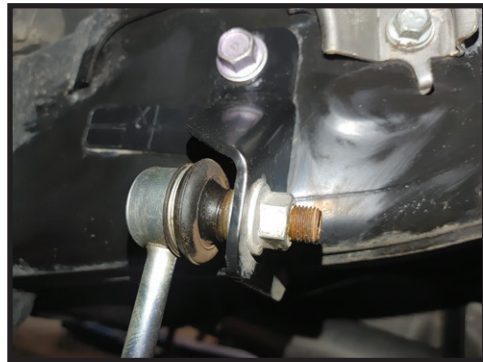


FIG.19

17. Loosen the lower link bolt at the axle, leave the bolt in place and remove the nut. The bolt has to be loosened or the nut may be damaged if rotated while tight. Slide the supplied bump stop bracket over the bolt and axle, reinstall the nut. Install the supplied 1/2-13 x 1.25" bolt with washer through the slotted hole in the bracket. Install the 1/2" black washer along with the gold washer and nylock nut. Torque to 70 ft-lbs. Torque the OEM bolt to 90 ft-lbs. [FIGURE 20 & 21]

FIG.20



FIG.21



18. If the ICON coil springs were purchased, install those now. Refer to those instructions.

19. If spring spacers are to be used, install those now. They are identical left to right. Use the supplied 7/16-14 x 1.25 bolts and washers. The nut plate will be placed on top of the coil bucket. Tighten the bolts to 50 ft-lbs. Install the coil bumpstop into the coil and insert the coil spring back into position. Be sure the lower pig tail fits into the axle perch correctly. [FIGURE 22]

FIG.22



20. Install the new ICON shocks now, refer to the instructions included with the shocks.

21. Install wheels and tires.

22. Lower vehicle to the ground and torque the remaining bolts, if OEM links or trackbar were retained.

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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 Phone: 951.689.ICON | Fax: 951.689.1016

PART #	DESCRIPTION
51015	22-23 TUNDRA/23 SEQUOIA 6" COILOVER SPACER KIT

COMPONENTS INCLUDED	
(2) 154037 6" TUNDRA COILOVER SPACER	
HARDWARE INCLUDED	
(8) 605830 M10-1.25 SERRATED FLANGE NUT GR8.8 CZINC	605969 VIBRATITE RED 2ML BULLET
TOOLS REQUIRED	
RATCHET EXTENSIONS TORQUE WRENCH	14MM SOCKET / WRENCH 24MM SOCKET / WRENCH
TECH NOTES	
<p>1. ADVERTISED LIFT HEIGHT RANGES ARE FOR A STOCK EQUIPPED VEHICLE. INCREASING WEIGHT OF VEHICLE DUE TO ACCESSORIES WILL ALTER LIFT RANGE.</p> <p>2. NOT COMPATIBLE WITH TRD PRO.</p> <p>3. NOT COMPATIBLE WITH AVS EQUIPPED TRUCKS.</p>	



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

- In continuation of the main instructions (51010).
- Place the coilover spacer on top of the OEM coilover, the bolt pattern is designed so the spacer will only fit one way.
- Use the OEM nuts and red threadlocker to secure the spacer onto the coilover and torque the nuts to 35 ft-lbs using a 14mm.
- Place the assembly into the coilbucket, aligning the studs into place. Use the supplied nuts and red threadlocker and torque to 35 ft-lbs using a 14mm.
- Insert the lower eyelet into the lower control arm and torque the OEM bolts to 130 ft-lbs.
- Refer back to the main instructions (51010) to continue install.

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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PART #	DESCRIPTION
51016	22-23 TUNDRA REAR COIL SPACER KIT

COMPONENTS INCLUDED	
(2) 154182 22 TUNDRA SPRING SPACER	(2) 154183 REAR COIL SPACER NUT TAB
HARDWARE INCLUDED	
(4) 605202 7/16-14 X 1.250 HHCS GR8 YZINC (4) 605230 7/16 SAE FLAT WASHER GOR8 YZINC	(1) 605969 VIBRATITE RED 2ML BULLET
TOOLS REQUIRED	
RATCHET EXTENSIONS TORQUE WRENCH	5/8" SOCKET / WRENCH
TECH NOTES	
<p>1. ADVERTISED LIFT HEIGHT RANGES ARE FOR A STOCK EQUIPPED VEHICLE. INCREASING WEIGHT OF VEHICLE DUE TO ACCESSORIES WILL ALTER LIFT RANGE.</p> <p>2. NOT COMPATIBLE WITH TRD PRO.</p> <p>3. NOT COMPATIBLE WITH AVS EQUIPPED TRUCKS.</p> <p>4. NOT COMPATIBLE WITH AIR RIDE EQUIPPED TRUCKS</p>	



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INSTALLATION

1. If spring spacers are to be used, install those now. They are identical left to right. Use the supplied 7/16-14 x 1.25 bolts and washers. The nut plate will be placed on top of the coil bucket.
2. The slotted hole will go towards the front of the truck. The circled holes will be the ones used. [FIGURE 1]



FIG.1
(Passenger Side)

3. Tighten the bolts to 50 ft-lbs. Install the coil bumpstop into the coil and insert the coil spring back into position. Be sure the lower pig tail fits into the axle perch correctly. [FIGURE 2]

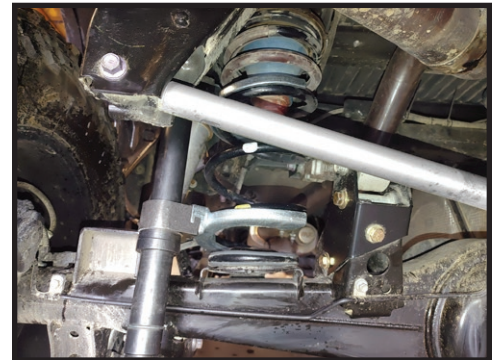


FIG.2

**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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PART #	DESCRIPTION
56517	22-UP TUNDRA 6" REAR 2.0 VS IR

COMPONENTS INCLUDED	
(1) 154931 22 TUNDRA 6" REAR 2.0 IR UPKG	
HARDWARE INCLUDED	
(1) 611007 9/16 MEDIUM DUTY STEM BUSHING KIT	
TOOLS REQUIRED	
JACK JACK STANDS RATCHETS TORQUE WRENCH	8MM SOCKET / WRENCH 17MM SOCKET / WRENCH 19MM SOCKET / WRENCH
TECH NOTES	
<p>1. YOUR ICON SHOCK 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.</p> <p>2. BE CAUTIOUS WHEN LOWERING THE AXLE WITHOUT THE SHOCKS ATTACHED, THE BRAKE LINES CAN BECOME STRETCHED AND CAUSE DAMAGE.</p> <p>3. INSTALL TIME: 30-40 MINUTES</p>	



WARNING!

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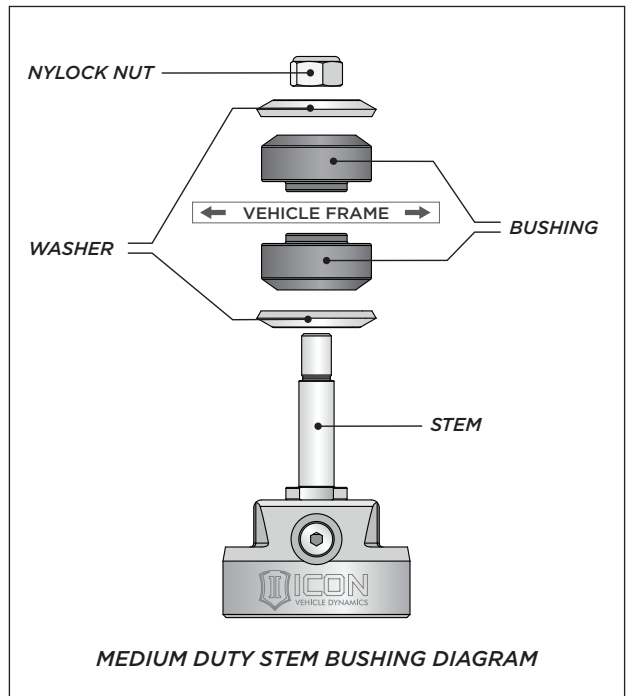
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INSTALLATION

- To be used in conjunction with (51012 instructions), 6" rear box kit.
 - Install the new Icon stem bushings onto the Icon shock. Place the washer with the bigger hole on, then a bushing . Place the stem into the upper shock mount, then another bushing and the washer.
- The bushings should center themselves into the factory mount. Thread on the supplied nylock nut until 2-3 threads are showing. [FIGURE 1]



FIG.1



3. Install the lower eyelet of the Icon shock onto the axle stud. A deadblow hammer can be used to get the lower eyelet on the stud completely. Use the factory bolt and torque to factory specs. [FIGURE 2]

FIG.2



4. With the shocks installed. Refer back to (51012 instructions).

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

2.0 ALUMINUM SERIES TECHNICAL INFORMATION

MAINTENANCE

ICON shock absorbers are a high quality rebuildable race style shock absorber designed for optimal performance. With a unit of this caliber on your vehicle, routine maintenance is required to keep them looking and operating in like new condition. Residual oil and assembly lube may be present at all seal paths from the factory out of the box and is considered normal. Pooling of oil however is not acceptable at any time and one should contact the ICON dealer where purchased.

BELOW ARE GUIDELINES BASED ON HOW YOU USE YOUR VEHICLE BUT YOUR MILEAGE MAY VARY:

STREET USE:

- Send in for factory servicing every 40,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Remove any buildup of road salt, mud, or debris from shocks anytime accrued
- Clean with mild soap and water with each oil change or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure yearly. (252004 charge needle assembly available at any ICON distributor)

STREET/DIRT:

- Send in for factory servicing every 15,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Clean with mild soap and water with each oil change, offroad trip, or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure each dirt outing. (252004 charge needle assembly available at any ICON distributor)

DIRT USE:

- Send in for factory servicing every 1,000 miles.
- Check nitrogen pressure each outing. (252004 charge needle assembly available at any ICON distributor)
- Remove any buildup of mud or debris from shocks after every outing.

SELF-SERVICE:

- Contact ICON for service kits & tools at (951) 689-4266.

PRODUCT REGISTRATION

Please visit: <http://www.iconvehicledynamics.com/tech-support/registration/> to register your product.

ICON VEHICLE DYNAMICS SHOCK ABSORBER WARRANTY

This shock absorber has a 1 year warranty against any manufacturer's defects. If a shock fails within the initial year of ownership, the shock must be shipped to ICON Vehicle Dynamics for inspection and service. If a shock is inspected and it has been determined the shock failed due to neglect, damage caused by improper installation or any other reason besides "normal wear and tear", the owner of said shock is responsible for all service costs. This includes labor, parts, and shipping.

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To send a shock in for warranty please visit our website <http://www.iconvehicledynamics.com/tech-support/shock-service/>



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