

PART #	DESCRIPTION
54000T	07-UP FJ/03-UP 4RNR/08-UP LC 200/03-UP GX TUBULAR LOWER LINK KIT

COMPONENTS INCLUDED	
(1) 154400 FJ/4RUNNER LOWER TUBULAR LINK (DRVR)	(1) 154401 FJ/4RUNNER LOWER TUBULAR LINK (PASS)
HARDWARE INCLUDED	
(2) 127005 HEIM SPACER JM16 X .570 X 2.625 (2) 157430 HEIM SPACER JM16 X .570 X 2.075 (2) 295510 JM16-1T 1-14 RH ROD END F1 FIT	(2) 297102 GREASELESS PRESS IN BUSH 2.135 X 14.3MM X 58.85MM (2) 605920 1-14 JAM NUT
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH	1.5" OPEN END WRENCH 12MM SOCKET / WRENCH 19MM SOCKET / WRENCH 21MM SOCKET / WRENCH
TECH NOTES	
<ol style="list-style-type: none"> DO NOT EXCEED 3.5" FROM LINK FACE TO CENTERLINE OF ROD END. BUSHINGS ARE GREASELESS AND DO NOT REQUIRE MAINTENANCE. LOWER ARMS MOUNT SO THAT THE REAR BUSHING HOUSING IS TANGENT WITH THE TUBE ON BOTTOM. IF MOUNTED UPSIDE DOWN, LINK TUBE WILL BIND ON AXLE HOUSING. KDSS EQUIPPED VEHICLES WILL REQUIRE THE SYSTEM TO BE DEACTIVATED BEFORE INSTALLATION, AND REACTIVATED AFTER INSTALLATION IS COMPLETE. REFER TO FACTORY SERVICE MANUAL FOR MORE INFORMATION. 	



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. If your vehicle is equipped with Kinetik Dynamic Suspension System (KDSS), deactivate the system before performing ANY work to the vehicle. Refer to the factory service manual for information on how to deactivate this system. KDSS will need to be reactivated once the installation is complete.

2. Using a properly rated jack, raise the rear of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the rear wheels

NOTE: REMOVE AND REPLACE ONLY ONE FACTORY LINK ARM AT A TIME.

3. Lay ICON link arm over the factory link to set a starting point for adjustment (26.75").

4. Use the factory hardware to install the link arm on the axle end using a 19mm socket/wrench. [Torque to factory spec] [FIGURE 1 & 2]

FIG.1

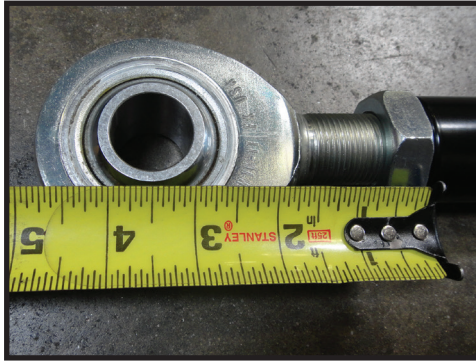


FIG.2



- 5.** The pinion angle can be adjusted as desired once both links are installed. Do not adjust longer than 3.5". [FIGURE 3]

FIG.3



- 6.** Connect the link to the frame using the factory hardware with the short spacer towards the inside of the vehicle. This will move the front link pivot points closer together on the frame to help correct roll-steer geometry on lifted vehicles. [FIGURE 4 & 5]

FIG.4



FIG.5



- 7.** Tighten jam nut using an 1.5" open end wrench. [Torque to 200 ft-lbs] Make sure the rod end is vertical as it is tightened.

- 8.** Tighten the front bolt on the lower link arm using a 19mm socket/wrench [Torque to factory spec]. Fasten emergency brake mount to the link arm with a 12mm socket/wrench using the factory hardware. [FIGURE 6]

FIG.6



- 9.** Repeat steps on the opposite side.

- 10.** Reinstall wheels and lower vehicle to the ground. [Torque to factory spec]

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.

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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.



ICON VEHICLE DYNAMICS®
PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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PART #	DESCRIPTION
56505	07-UP FJ/03-UP 4RNR/03-UP GX 1-3" REAR 2.0 VS IR

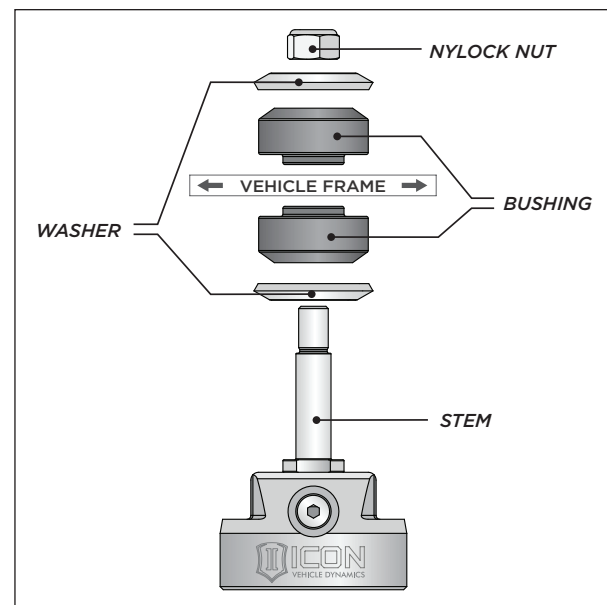
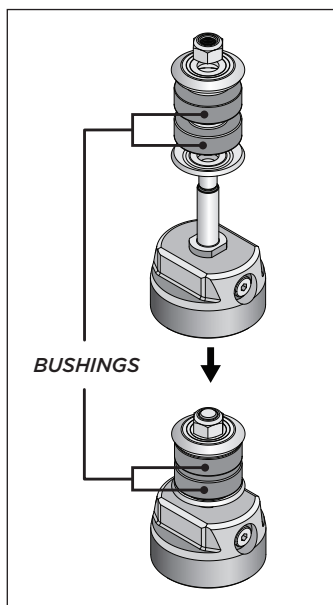
COMPONENTS INCLUDED	
(1) 154915 07+ FJ/03+ 4 RNR 0-3" REAR 2.0 IR VS	(1) 611007 STEM BUSHING HARDWARE KIT
HARDWARE INCLUDED	
611007 HARDWARE KIT	
(2) MED DUTY 9/16" ID STEM BUSHING (1) MED DUTY 9/16" ID STEM WASHER	(1) MED DUTY 12MM ID STEM WASHER (1) M12 - 1.25 NYLOCK NUT
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH	LOCKING PLIERS 14MM SOCKET / WRENCH 15MM SOCKET / WRENCH 17MM SOCKET / WRENCH
TECH NOTES	
<p>1. THIS UNIT IS CHARGED WITH 150 PSI OF NITROGEN. DO NOT DISCHARGE.</p> <p>2. KDSS EQUIPPED VEHICLES WILL REQUIRE THE SYSTEM TO BE DEACTIVATED BEFORE INSTALLATION, AND REACTIVATED AFTER INSTALLATION IS COMPLETE. REFER TO FACTORY SERVICE MANUAL FOR MORE INFORMATION.</p>	



WARNING!
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INSTALLATION

1. If your vehicle is equipped with Kinetik Dynamic Suspension System (KDSS), deactivate the system before performing ANY work to the vehicle. Refer to the factory service manual for information on how to deactivate this system. KDSS will need to be reactivated once the installation is complete.
2. Using a properly rated jack, raise the rear of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE.
3. Use a 17mm socket/wrench to remove the driver side upper shock mount bolt in order to remove the OEM shock bushings and washers. Use locking pliers to hold the shaft from rotating.
4. Compress the shock enough to allow the stem to clear the frame and pull the upper portion of the shock away from the frame rail to relieve any tension on lower shock mount.
5. Using a 17mm socket/wrench, remove the driver side lower stud bolt and remove shock.
6. Install the lower shock mount as follows: shock rodend, shin guard (56100)*, factory stud bolt. [Torque to factory spec] (*56100 Shin guard optional)
7. Use a 19mm socket/wrench to install the shock stem bushing kit onto the factory shock mount as follows: 9/16" ID stem washer, stem bushing (locator lip up), factory shock mount, stem bushing (locator lip down), 12mm ID stem washer, 12mm nylock nut. Fasten until bushing assembly is snug and nylock is engaged. (SEE DIAGRAMS)
8. Repeat step 3-7 for passenger side.



MEDIUM DUTY STEM BUSHING DIAGRAM & ASSEMBLY

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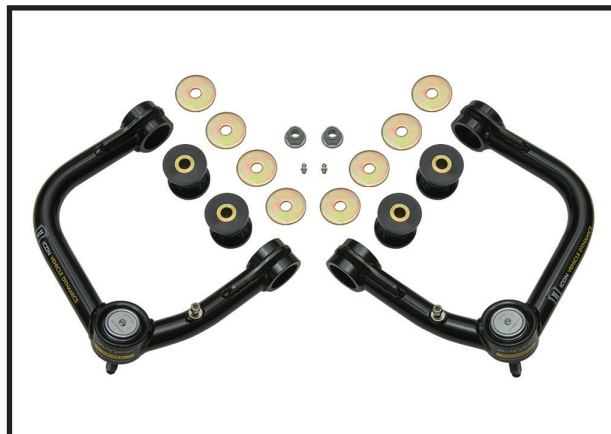
ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty.

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.

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

PART #	DESCRIPTION
58451DJ	07-UP FJ/03-UP 4RNR/03-UP GX TUBULAR UCA DJ KIT

COMPONENTS INCLUDED	
(1) 154100 05+ TACOMA/07+ FJ TUBULAR UCA (DRVR)	(1) 154101 05+ TACOMA/07+ FJ TUBULAR UCA (PASS)
HARDWARE INCLUDED	
(8) 150025 WASHER 2.125 X .565 X .188 (2) 157518BJ 07-UP FJ/03-UP 4RNR/08-UP LC 200 DELTA JOINT (4) 159207 SLEEVE 1.000 X .563 X 2.060 (8) 297034 HAT BUSHING 1.625 X 1.000 X .850 (4) 297042 POLY RING 1.590 X 1.005 X .250 (75D) (4) 605053 1/4 FLAT WASHER	(2) 605800 M6-1.0 FLANGE NUT (4) 605813 M14 FLAT WASHER (2) 605862 M6-1.0 25MM STUD (4) 605903 1/4-28 X 90 DEG STEEL ZERK FITTING (2) 605950 WHT-200 SPIRAL RET RING
TOOLS REQUIRED	
JACK JACK STANDS LARGE HAMMER TORQUE WRENCH NEEDLE NOSE PLIERS	7/64" ALLEN WRENCH 10MM SOCKET / WRENCH 19MM SOCKET / WRENCH 21MM SOCKET / WRENCH 3/8" SOCKET / WRENCH
TECH NOTES	
<p>1. 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>2. ICON RECOMMENDS OPTIONAL BILLET DUST COVER SET (191011) TO PREVENT DEBRIS FROM PACKING UP AROUND THE ZERK FITTING.</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. KDSS EQUIPPED VEHICLES WILL REQUIRE THE SYSTEM TO BE DEACTIVATED BEFORE INSTALLATION, AND REACTIVATED AFTER INSTALLATION IS COMPLETE. REFER TO FACTORY SERVICE MANUAL FOR MORE INFORMATION.</p>	



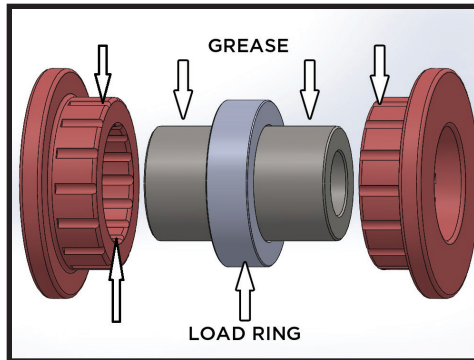
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INSTALLATION

1. If your vehicle is equipped with Kinetik Dynamic Suspension System (KDSS), deactivate the system before performing ANY work to the vehicle. Refer to the factory service manual for information on how to deactivate this system. KDSS will need to be reactivated once the installation is complete.
2. Using a properly rated jack, raise the front of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove front wheels.
3. Using a jack, slightly lift the lower control arm to prevent the arms from being at full droop.
4. Disconnect the upper ball joint: remove the cotter pin securing the upper ball joint nut. Using a 19mm socket/wrench, loosen the nut to the end of the shank but do not remove entirely so that the nut protects the threads. Dislodge the taper by either using a ball joint separator or by striking the spindle on the outside of the taper with a large hammer or hand sledge.
5. Support the spindle so that it does not overextend the CV joints when detached.
6. Using a 10mm socket/wrench, disconnect the ABS line that is routed down the top of the arm. Remove the ball joint nut and disconnect the upper control arm from the spindle.
7. Using a 19mm socket/wrench, remove the large upper control arm pivot bolt. This hardware will be reused, note direction and order of components. Remove the nut and washer from the rear side of the long pivot bolt. Carefully feed the bolt forward until it clears the front of the A-arm. Remove the stock upper control arm.

8. Before installing your new upper control arms, care must be taken to grease the bushings (liberally) prior to installing assembly. Failure to grease properly will cause premature bushing wear and increased noise. [FIGURE 1]

FIG.1



9. Install the new ICON tubular upper control arm into the chassis: Note the side and orientation of the arms, the Delta Joint should be oriented to the back of the vehicle. Make sure that there is a washer placed on each side of the bushings then carefully feed the pivot bolt through the pivots of the arm and through the pivot tube in the chassis. Use the 150025 washers against bushings. Place the 605813 washers under the nut and under the head of the bolt. Grease the zerk fittings until you can see that the grease has worked itself all the way into the bushings and then tighten pivot bolt. [Torque to factory spec]

10. Pivot the Delta Joint stem so that it is inline with the taper bore in the spindle. The new Delta Joint will be very stiff the first time you move it.

11. Rotate the upper control arm downward and install the stem through the spindle taper. Install the supplied flanged nut on the taper pin. [Torque to 75 ft-lbs]

12. Using a 10mm socket/wrench reattach the ABS line to the threaded hole in the arm with the factory bolt.

13. Install wheels and lower vehicle back to the ground. [Torque to factory spec]

14. Repeat steps on opposite side.

15. Have the vehicle professionally aligned.

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

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

ALIGNMENT NOTE

A MAJOR PERFORMANCE ADVANTAGE OF ALL ICON UPPER CONTROL ARMS IS INCREASED CASTER OVER STOCK. DISCUSS WITH A PROFESSIONAL ALIGNMENT SHOP THAT YOU WANT THE VEHICLE ALIGNED WITH THE CASTER AT THE MAX OF THE FACTORY RECOMMENDED SETTINGS IF YOU WANT TO TAKE ADVANTAGE OF THE DYNAMIC EFFECTS OF INCREASED CASTER.



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www.iconvehicledynamics.com



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PART #	DESCRIPTION
58647	10-UP FJ/4RNR/10-UP GX EXT TRAVEL 2.5 VS IR COILOVER KIT

COMPONENTS INCLUDED

(2) 154953 07+ FJ/03+ 4RUNNER EXT TRAVEL IR
(1) 611019 COILOVER HARDWARE KIT (PAIR)

(1) 611031 10-UP FJ/4RNR SWAYBAR
RELOCATION KIT

HARDWARE INCLUDED

611019 HARDWARE KIT

(6) 605101 3/8-16 X 1.000 BOLT

(6) 605131 3/8" SPLIT LOCK WASHER

611031 HARDWARE KIT

(2) 157110 10+ FJ SWAYBAR BRACKET
(4) 605100 3/8-16 X .750 BOLT
(4) 605133 3/8 FLAT WASHER

(14) 605432 9/16 WASHER THICK 1.18 X .585 X .18
(4) 605808 M10-1.25 X 25MM
(2) 605853 M10-1.25 X 25MM FLANGED BOLT

TOOLS REQUIRED

JACK
JACK STANDS
TORQUE WRENCH
HAMMER
9/16" SOCKET / WRENCH
8MM ALLEN WRENCH

10MM SOCKET / WRENCH
13MM SOCKET / WRENCH
14MM SOCKET / WRENCH
15MM SOCKET / WRENCH
18MM SOCKET / WRENCH
21MM 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. DO NOT PRELOAD THE COIL BEYOND 2.13" (1.13" FOR 700LB COIL #158508) OF EXPOSED THREADS BETWEEN THE BOTTOM OF THE TOP CAP AND THE TOP OF THE COIL ADJUSTER NUT. A REDUCTION IN RIDE QUALITY WILL BE EXPERIENCED IF COILOVERS ARE ADJUSTED TO ALLOW FOR LESS THAN 2" OF DROOP TRAVEL FROM STATIC RIDE HEIGHT.

3. REQUIRES USE OF ICON TUBULAR UPPER CONTROL ARM (58451) OR ICON BILLET UPPER CONTROL ARM (58551).

4. KDSS EQUIPPED VEHICLES WILL REQUIRE THE SYSTEM TO BE DEACTIVATED BEFORE INSTALLATION, AND REACTIVATED AFTER INSTALLATION IS COMPLETE. REFER TO FACTORY SERVICE MANUAL FOR MORE INFORMATION.

5. KDSS EQUIPPED VEHICLES WILL NOT USE SWAYBAR RELOCATION KIT (611031).



WARNING!

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**** 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. If your vehicle is equipped with Kinetik Dynamic Suspension System (KDSS), deactivate the system before performing ANY work to the vehicle. Refer to the factory service manual for information on how to deactivate this system. KDSS will need to be reactivated once the installation is complete.

2. Using a properly rated jack, raise the front of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the front wheels.

3. Remove the plastic upper skid plate using a 10mm and a flat head screwdriver. Remove the lower skid plate using a 12mm. Remove the skid plate braces using a 15mm. [FIGURE 1 - 3]

FIG.1



FIG.2



FIG.3



- 4.** Disconnect the outer tie rod end on both sides. Remove the cotter pin and loosen the nut until it is flush with the end of the threads. Strike the end of the steering knuckle arm with a large hammer to dislodge the taper. Remove the nut and swing the tie rod out of the way.
- 5.** Disconnect the sway bar from the frame on both sides. Remove bolts using a 14mm socket/wrench and remove the bracket from the sway bar. Move the sway bar forward to make room for removal and installation of the shock.
- 6.** To make room for removal of the factory coilover assembly, disconnect the knuckle from the upper control arm. Once the knuckle is disconnected from the upper control arm, support the knuckle so that brake line damage does not occur.
- 7.** Support the lower control arm with a jack and remove the (3) nuts securing the upper shock assembly mount to the coil bucket. Do not loosen or remove the large center nut securing the spring seat to the shock shaft. Failure to comply will result in the stock coil assembly to come apart violently, causing damage to components and possible injury.
- 8.** Loosen the bolt connecting the shock to the lower control arm. Lower jack and remove the bolt. Note orientation; as this bolt will be reused. The head of the bolt should be facing forward.
- 9.** Remove the stock coil assembly. Due to rubber bushing stiffness you may need to pull down on the suspension. Be careful not to damage any brake lines or wires that may be routed down the upper control arm.
- 10.** Install lower shock mount to lower control arm: The lower shock mount has (1) long and (1) short spacer. Make sure the long spacer is toward the front of the vehicle. This will position the shock further toward the rear of the lower control arm to ensure adequate sway bar clearance. Reinstall the factory lower shock bolt. [Torque to factory spec] **[FIGURE 4]**

FIG.4



- 11.** If replacing the upper control arms, refer to appropriate UCA instructions now. Mount the upper control arm to the knuckle and tighten the taper nut. [Torque to factory spec]
- 12.** Reinstall the outer tie rod end [Torque to factory spec] and install cotter pin.
- 13.** Remove the factory skid plate using a 14mm socket/wrench and set aside.
- 14.** Install the sway bar relocation block (157110). Using the factory hardware, bolt the block to the frame [Torque to factory spec]. The heads will be recessed in the block. Make sure the block is positioned so that the new threaded holes are forward of the countersunk holes. Using the supplied (605100) bolts, (605133) washers and factory U-clamp, reinstall the sway bar in it's new position, forward of factory location. **[FIGURE 5]**

FIG.5



15. Install the skid plate braces with the supplied skid plate washers (605432) between the frame and skid plate on all six mounting locations. Use (2) washers per bolt with (3) washers on the bolts towards the front of the truck. Use the supplied (605853) hardware for the middle bolts that go into the protruding bung and the factory hardware for the remaining mounting locations and tighten with a 14mm socket/wrench. [Torque to factory spec] **[FIGURE 6]**

FIG.6

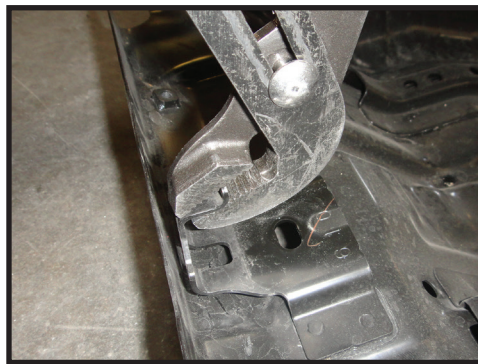


FIG.7

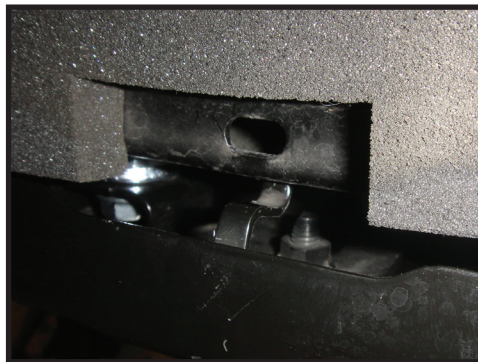
16. Slightly bend the hanger tabs down on the factory skid plate, they will no longer be used. **[FIGURE 7]**

17. Install the OEM skid plate using the factory hardware and a 12mm. **[FIGURE 8 & 9]**

FIG.8



FIG.9



18. Install the plastic upper skid plate using the factory hardware and a 10mm. **[FIGURE 10]**

FIG.10



19. Install wheels and lower vehicle back to the ground. [Torque lugs to factory spec]

20. Have the vehicle professionally aligned.

FOR KDSS EQUIPPED VEHICLES: After completing installation of ICON components, refer to factory Toyota service manual to reset the KDSS system.

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

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

2.5 VS SERIES SHOCK & COILOVER 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 and coil springs 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)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

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)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

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 and coil springs 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.

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.

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



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