

PART #	DESCRIPTION
54100T	07-UP FJ/03-UP 4RNR/03-UP GX TUBULAR UPPER TRAILING ARM KIT

COMPONENTS INCLUDED	
(2) 154300 FJ/4RUNNER TUBULAR REAR LINK UPPER	
HARDWARE INCLUDED	
(4) 157431 HEIM SPACER JM12 X .50 X 55MM (2) 295511 JM 12T ROD END F1 FIT	(2) 297103 GREASELESS PRESS IN BUSHING 2.135 X 12.2MM X 54.75MM (2) 605640 3/4-16 JAM NUT
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH	1.25" OPEN END WRENCH 17MM SOCKET / WRENCH 21MM SOCKET / WRENCH
TECH NOTES	
<ol style="list-style-type: none"> DO NOT EXCEED 2.0" FROM LINK FACE TO CENTERLINE OF ROD END. BUSHINGS ARE GREASELESS AND DO NOT REQUIRE MAINTENANCE. THE ROD END CAN BE MOUNTED AT AXLE END OR FRAME END. 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: ONLY REMOVE AND REPLACE ONE FACTORY LINK AT A TIME.

3. Lay ICON link over the factory link to set a starting point for adjustment. The factory link length is 12.31".

4. Use the factory hardware to install the bushing side of the link to the axle mount using a 17mm socket/wrench. [Torque to factory spec] [FIGURE 1]

FIG.1



- 5.** The pinion angle can be adjusted as desired once both links are installed. Do not adjust longer than 2.0". [FIGURE 2]

FIG.2



- 6.** Connect the rod end side of the link to the frame mount using the factory hardware. [Torque to factory spec] [FIGURE 3 & 4]

FIG.3



FIG.4



- 7.** Tighten jam nut using an 1.25" open end wrench. [Torque to 120 ft-lbs] Make sure the rod end is vertical as it is tightened.
- 8.** Tighten the front bolt using a 17mm socket/wrench. [Torque to factory spec]
- 9.** Repeat steps on the opposite side.
- 10.** Reinstall wheels and lower vehicle to the ground. [Torque lugs 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.



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PART #	DESCRIPTION
57810CP	07-UP FJ/03-UP 4RNR/03-UP GX 1-3" REAR 2.5 VS RR CDCV PAIR

COMPONENTS INCLUDED	
(2) 154969C 07+ FJ/03+ 4RUNNER 0-3" REAR 2.5 CDCV (2) 250002 7.50 UNIVERSAL RESI MT PLATE	(2) 611007 9/16" 9/16 MEDIUM DUTY STEM BUSHING KIT (1) 611051 #36 1.188-2.750 STAINLESS HOSE CLAMP KIT (4)
HARDWARE INCLUDED	
(1) 605033 #14-14 X .750 #3 HWH SELF DRILL SCREW CZINC (2) 605131 3/8 SPLIT LOCK WASHER	(2) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT (2) 605934 #12 (3/4) ADEL CLAMP
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 LOCK NUT
611051 HARDWARE KIT	
(4) STAINLESS STEEL HOSE CLAMP	
TOOLS REQUIRED	
JACK JACK STANDS DRILL CENTER PUNCH 21/64 DRILL BIT LOCKING PLIERS TORQUE WRENCH	8MM NUT DRIVER 3/8" SOCKET (FOR IMPACT DRIVER) 10MM SOCKET / WRENCH 14MM SOCKET / WRENCH 15MM SOCKET / WRENCH 17MM SOCKET / WRENCH 19MM SOCKET / WRENCH
TECH NOTES	
1. YOUR ICON SHOCK ASSEMBLIES COME FACTORY CHARGED TO 150 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. DRIVER AND PASSENGER SHOCKS DIFFER ONLY BY RESERVOIR STICKER ORIENTATION	
3. 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!

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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 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.

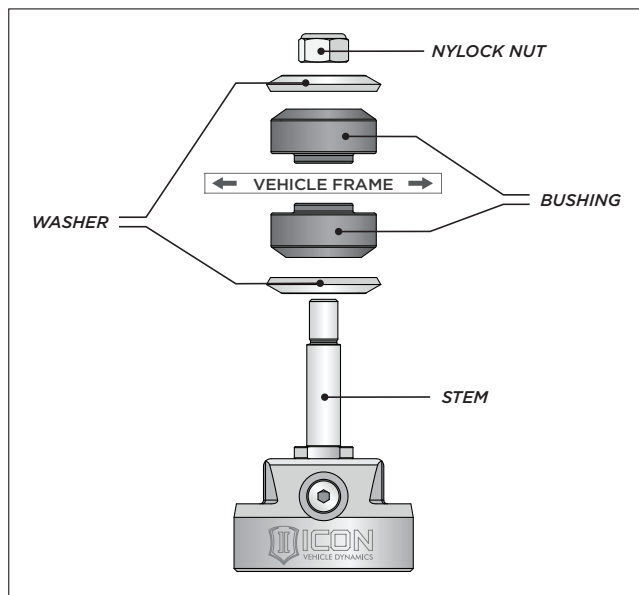
3. Place a floor jack under the axle housing and slightly raise the jack to remove tension from the shock. Loosen and remove the lower shock bolt using a 17mm socket/wrench. Make sure the axle is well supported, then remove the stem bushing nut and upper stem bushings using a 17mm socket/wrench.

4. Remove the rear shock.

5. Install the lower shock mount as follows: shock spacer, shock rod end, shock spacer, shin guard (56100)*, factory stud bolt. [Torque to factory spec] *(56100 shin guard optional)

NOTE: If factory shock mount has been deformed, sand slightly to allow for proper spacer fitment.

6. Use a jack to raise the axle housing far enough to guide the shock stem into position in the factory shock mount. Install stem hardware as seen in diagram. Use a 19mm socket/wrench to install the lock nut until lock is engaged. Do not overtighten bushing assembly as this can lead to premature bushing wear. Failure caused by incorrect installation of bushings is not covered under ICON's warranty policy.



MEDIUM DUTY STEM BUSHING DIAGRAM

- 7.** Use a 10mm socket/wrench to remove the (4) bolts and rivet clip that holds the driver side mud flap in place. Remove mud flap.
- 8.** Reservoir hose should be oriented towards the rear of the vehicle. Mount the remote reservoir to the reservoir mount plate (250002) using the provided (605931) hose clamps. Be sure to install the hose clamp to the ends of the reservoir within the machined areas on the outer surface of the remote reservoir.
- 9.** Orient the reservoir mounting bracket on frame rail forward of the body mount and mark center of the hole. The remote reservoir and bracket should not come in contact with any part of the frame or frame brackets. The reservoir bracket bolt can be measured to within the following approximate dimensions: 2" up from the bottom of the frame rail and 4" forward of the body mount. [FIGURE 1]

FIG.1



- 10.** Using the hole in the bracket as a guide, center punch and drill to 21/64".
- 11.** Use a 9/16" socket/wrench to thread the supplied (605144) self tap bolt into the frame rail, minimum 2 full rotations.
- 12.** Remove the (605144) self tap bolt and secure remote reservoir bracket. [Torque to 30ft-lbs]
- 13.** Place reservoir in the reservoir mounting bracket with the ICON shield logo oriented up into the fender well and secure reservoir with the supplied (605931) hose clamps using an 8mm nut driver. [FIGURE 2]

FIG.2



FIG.3



- 14.** Install the supplied (605934) adel clamp at the center of the remote reservoir hose in the fender well. Use a 3/8" socket to drive the #14 self drill/tap screw (605033) and secure adel clamp to the pinch weld above the frame in the wheel well. [FIGURE 3]
- 15.** Use a 10mm socket/wrench to reinstall the mud flap and rivet clip.
- 16.** Repeat steps 3-15 on opposite side.
- 17.** Install wheels and lower vehicle back 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.

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.

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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/>



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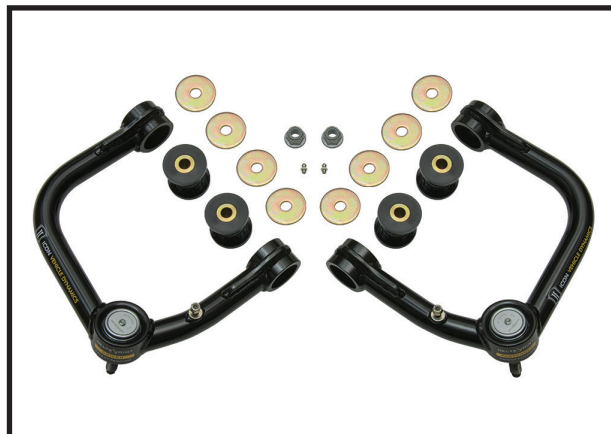


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PART #	DESCRIPTION
58451DJ	07-UP FJ/03-UP 4RNR/03-UP GX TUBULAR UCA DJ KIT

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>	



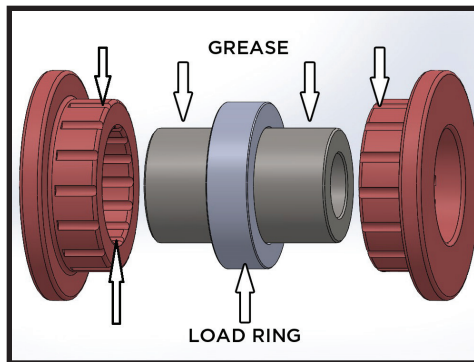
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INSTALLATION

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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PART #	DESCRIPTION
58745C	07-09 FJ/03-09 4RNR/03-09 GX EXT TRAVEL CDCV COILOVER KIT

COMPONENTS INCLUDED

(1) 154004 05+ TACO / FJ RESI MOUNT (PASS)	(1) 611019 COILOVER HARDWARE KIT (PAIR)
(1) 154005 05+ TACO / FJ RESI MOUNT (DRVR)	(1) 611030 05-UP TACO/ 07-09 FJ SWAYBAR RELOCATION KIT
(1) 154950CD 07+ FJ/03+ 4RUNNER CO EXT. TRAVEL CO CDCV (DRVR)	(1) 611051 HOSE CLAMP KIT
(1) 154950CP 07+ FJ/03+ 4RUNNER CO EXT. TRAVEL CO CDCV (PASS)	

HARDWARE INCLUDED

611019 HARDWARE KIT	
(6) 605101 3/8-16 X 1.000 BOLT	(6) 605131 3/8 SPLIT LOCK WASHER
611030 HARDWARE KIT	
(2) 157100 05+ TACO / 07-09 FJ SWAYBAR RELOCATION BRACKET	(4) 605100 3/8-16 X .750 BOLT (4) 605133 3/8 FLAT WASHER
611051 HARDWARE KIT	
(4) STAINLESS STEEL HOSE CLAMP	

TOOLS REQUIRED

JACK JACK STANDS TORQUE WRENCH HAMMER 5/16" NUT DRIVER	12MM SOCKET / WRENCH 14MM SOCKET / WRENCH 17MM SOCKET / WRENCH 19MM SOCKET / WRENCH 21MM SOCKET / WRENCH
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TECH NOTES

1. YOUR ICON COILOVER ASSEMBLIES COME FACTORY CHARGED TO 150 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.


WARNING!

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INSTALLATION

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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. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. Remove the stock coil assembly. Due to rubber bushing stiffness you may need to pull down on the suspension. To make this easier you can use a pry bar over the top of the upper control arm and under the pivot bolt for additional leverage. Be careful not to damage any brake lines or wires that may be routed down the upper control arm.

9. Install new coilover assembly. Install upper mount with the reservoir hose pointing outward using (605101) bolts and (605131) lock washers. [Torque to 35 ft-lbs]

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 1]

FIG.1



11. Reinstall the upper control arm to the knuckle and tighten balljoint nut. [Torque to factory spec]

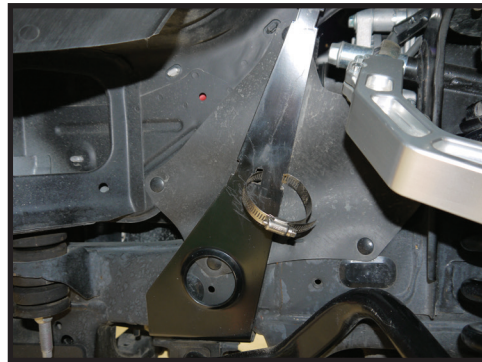
12. Repeat steps 4-10 on opposite side.

13. Install the reservoir mount and sway bar relocation block. Using the factory hardware, bolt the block to the frame with the reservoir mount sandwiched between the relocation block and frame as shown. 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 its new position, forward of factory location. [FIGURE 2 & 3]

FIG.2



FIG.3



14. Mount reservoir according to appropriate year and model; The lower hose clamp goes through the slot in the bracket and the upper registers in the notches at the top of the bracket. Position the reservoir so the clamp bands are in the recessed groove on the can and secure. [FIGURE 4 & 5]

FIG.4

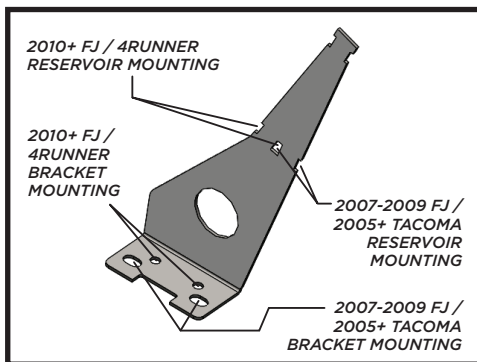


FIG.5



15. Reinstall the outer tie rod end [Torque to factory spec] and install cotter pin.

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

17. 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.

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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