

7929 Lincoln Ave. Riverside, CA 92504  
Phone: 951.689.ICON | Fax: 951.689.1016

PART #	DESCRIPTION
51100	96-UP TACOMA/00-06 TUNDRA 1.5" ADD A LEAF KIT

COMPONENTS INCLUDED	
(2) 158501 05+ TACOMA/00-06 TUNDRA ADD A LEAF PACK	(1) 52050 8" U-BOLT KIT
HARDWARE INCLUDED	
N/A	
TOOLS REQUIRED	
JACK JACK STANDS CUT OFF WHEEL CENTER PUNCH	9/16" SOCKET / WRENCH 7/8" SOCKET / WRENCH 14MM SOCKET / WRENCH 19MM SOCKET / WRENCH TORQUE WRENCH
TECH NOTES	
<p>1. SOME LEAF PACKS MAY HAVE A SPRING CLIP THAT WILL NEED TO BE REMOVED TO ALLOW FOR INSTALLATION OF THE ICON ADD A LEAF KIT.</p> <p>2. LEAVING THE FACTORY OVERLOAD LEAF INSTALLED IS NOT RECOMMENDED.</p>	



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

## INSTALLATION

- 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.
- Remove the lower rear shock bolts using a 19mm socket/wrench.
- Use a jack to support the axle then loosen and remove the driver side U-bolts using a 19mm socket/wrench. Make sure the axle is well supported or it could fall when the U-bolts are removed.
- Slowly lower the axle away from the springs and remove the factory centering pin and factory overload spring. Clamp the factory spring together before removing center pin. Remove the factory overload spring at this time, this will not be reused.
- If your factory leaf pack is equipped with a spring clip that interferes with the ICON add a leaf spring clip, the factory spring clip must be removed from the leaf. To remove the spring clip, cut the head of the rivet off and pound the rivet out of the leaf with a center punch. Sand the rivet hole smooth on both sides. Use touch up paint to prevent corrosion.
- The add a leaf has a different length front to rear of the centering pin. The longer side is to be placed towards the REAR of the vehicle.
- Remove the spring clip hardware and center pin nut from ICON add a leaf for installation.
- Place the new add a leaf pack between the axle and factory spring pack, make sure the ICON add a leaf clamp bolts and center pin nut are unbolted before installation. Slide new center pin through factory leaf spring pack, reinstall the supplied center pin nut and tighten. Trim the excess length of the center pin, leaving about 1/2" of threads sticking out from the top of the nut.
- Use a jack to raise the axle and guide the spring center pin into the hole on the top of the axle. Install supplied U-bolts (long U-bolts on driver side), washers, and nuts. [Torque to 90ft-lbs]
- Reinstall the spring clip bolts.
- Reinstall shock to the factory lower shock mount using a 19mm socket/wrench. [Torque to factory spec]
- Repeat steps 2-11 on opposite side of the vehicle.
- Reinstall wheels and lower 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.



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PART #	DESCRIPTION
56503R	05-UP TACOMA 4WD 0-1.5" REAR 2.0 VS RR

COMPONENTS INCLUDED	
(1) 154913R 05-UP TACOMA 4WD 0-1.5" REAR 2.0 VS RR	(1) 611007 9/16" MEDIUM DUTY STEM BUSHING KIT (1) 611050 2.0 UNIVERSAL 6" RESI MOUNT KIT
HARDWARE INCLUDED	
611007 HARDWARE KIT	
(2) MEDIUM DUTY 9/16" ID STEM BUSHING (1) MEDIUM DUTY 9/16" ID STEM WASHER	(1) MEDIUM DUTY 12MM ID STEM WASHER (1) M12-1.25 LOCK NUT
611050 HARDWARE KIT	
(1) 605131 3/8 SPLIT LOCK WASHER (1) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT	(2) 605928 1/2 X 1 5/16 - 2 1/4 ID#28 SS HOSE CLAMP (1) 250000 6.00 UNIVERSAL RESI MT PLATE
TOOLS REQUIRED	
JACK JACK STANDS DRILL CENTER PUNCH 21/64" DRILL BIT LOCKING PLIERS	17MM SOCKET / WRENCH 19MM SOCKET / WRENCH 5/16" SOCKET / WRENCH 9/16" SOCKET / WRENCH TORQUE WRENCH BARREL SANDER
TECH NOTES	
<p>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.</p> <p>2. FAILURE TO MAKE SURE SHOCK RESERVOIR FITTING ORIENTATION IS CORRECT CAN RESULT IN FITTING COLLIDING INTO SHOCK MOUNT AND BECOMING LOOSE OR BREAKING, WHICH CAN CAUSE OIL LOSS AND SHOCK FAILURE. VERIFY FITTING IS CLOKED DOWNWARD AND CLEAR OF MOUNT AS SHOWN. INCORRECT INSTALLATION IS NOT COVERED UNDER ICON'S WARRANTY.</p> <p>3. FAILURE TO ALLOW FOR ADEQUATE SLACK IN RESERVOIR HOSE CAN CAUSE THE HOSE ASSEMBLY TO PULL FITTING AS THE SHOCK CYCLES WHICH CAN CAUSE DAMAGE. INCORRECT INSTALLATION IS NOT COVERED UNDER ICON'S WARRANTY.</p> <p>4. FAILURE TO SAND SHOCK MOUNT MAY CAUSE DAMAGE TO RESERVOIR FITTING, WHICH IS NOT COVERED UNDER ICON'S WARRANTY POLICY.</p>	



**WARNING!**

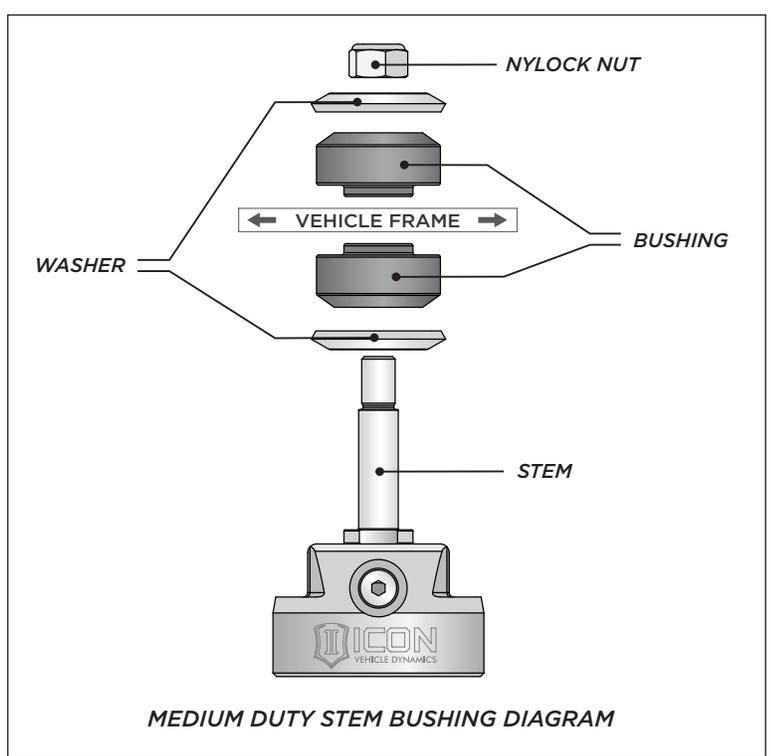
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**\*\* ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.**

**\*\* ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLTION 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

- 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.
- 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.
- Remove the rear shock from vehicle.
- Install the lower shock mount in the factory location and reinstall the factory lower shock bolt and nut using a 17mm socket/wrench. [Torque to factory spec]
- Install stem hardware as seen in diagram. Tighten the stem nut until it is flush with the top of the stem. 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.



**6.** Sand the upper shock mount as shown to provide extra clearance for the hose fitting. This must be done to keep the fitting from hitting the upper mount as the bushings move during normal use. [FIGURE 1]

FIG.1



**7.** The hose must exit as pictured. [FIGURE 2] Allowing the reservoir hose to exit differently OR over tightening of the stem bushing lock nut will cause the reservoir fitting to collide into the frame. [FIGURE 3] displays contact of the reservoir fitting and the frame when the shock is installed incorrectly.

FIG.2



FIG.3



**8.** Mount the remote reservoir to the reservoir mount plate (250000) using the provided (605928) hose clamps. Be sure to install the hose clamp to the recessed ends of the reservoir.

**9.** Orient the reservoir mounting bracket on frame rail, allow for enough hose slack for the shock to cycle. Mark the center of the hole. The remote reservoir and bracket should not come in contact with any part of the frame, frame brackets, or bed. The reservoir fitting should point slightly downward so that it does not contact the mount as the suspension cycles. Failure to provide adequate slack in the line can cause failure as the suspension cycles.

**10.** Center punch and drill to 21/64" [FIGURE 4]

FIG.4



**11.** Thread the supplied (3/8" x 3/4") self tap bolt into the frame rail using a 9/16" socket/wrench, minimum of 2 full rotations.

**12.** Remove the (3/8" x 3/4") self tap bolt and secure remote reservoir bracket using a 9/16" socket/wrench. [Torque to 30ft-lbs]

**13.** Place reservoir in the reservoir mounting bracket with the ICON shield logo oriented up into the fender well. Secure reservoir with the supplied (605928) hose clamps using a 5/16" nut driver. [FIGURE 5]

**FIG.5**



**14.** Repeat step 2-13 on opposite side.

**15.** 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.***

## 2.0 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/>



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PART #	DESCRIPTION
58450DJ	05-UP TACOMA TUBULAR UCA DJ KIT

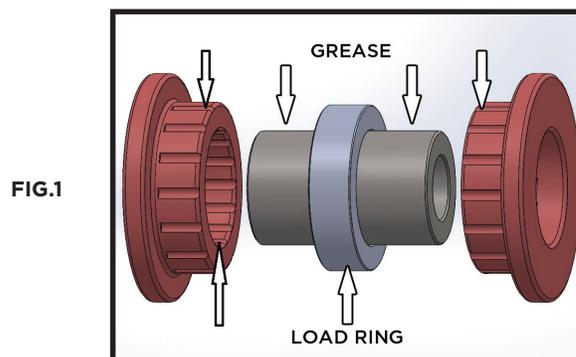
COMPONENTS INCLUDED	
(1) 154100 05+ TACOMA/07+ FJ TUBULAR UCA (DRVR)	(1) 154101 05+ TACOMA/07+ FJ TUBULAR UCA (PASS)
HARDWARE INCLUDED	
(8) 150025 WASHER 2.125 X .565 X .188 (2) 157517BJ 05-UP TACO/07-UP TUNDRA/16-UP TITAN XD DELTA JOINT (4) 159207 SLEEVE 1.000 X .563 X 2.060 (8) 297034 HAT BUSHING 1.625 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>	



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## INSTALLATION

- 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.
- Using a jack, slightly lift the lower control arm to prevent the arms from being at full droop.
- 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.
- Support the spindle so that it does not overextend the CV joints when detached.
- 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.
- 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.
- 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]



**8.** 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]

**9.** 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.

**10.** 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]

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

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

**13.** Repeat steps on opposite side.

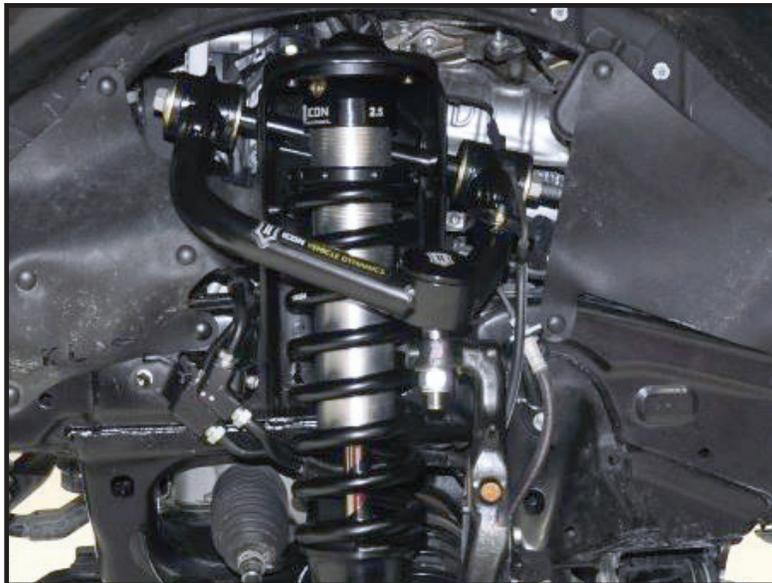
**14.** Have the vehicle professionally aligned.

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***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
58632	05-UP TACOMA FRONT 2.5 EXP COILOVER

### COMPONENTS INCLUDED

(1) 150137 05-UP TACOMA BEAUTY PLATE (1) 154035 05-UP TACOMA EXP UPPER MOUNT ASM (1) 154878 05-UP TACOMA FRONT 2.5 IR EXP COILOVER UNPKG	(1) 294060 EXP COIL MOUNT KIT (1) 605968 VIBRATITE BLUE 2ML BULLET
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### HARDWARE INCLUDED

(2) 290017 WASHER 1.4" X .425" X .25" BLACK ZINC

### TOOLS REQUIRED

JACK JACK STANDS PLIERS PRY BAR RATCHET CUTOFF WHEEL COIL SPRING COMPRESSOR	CIRCLIP RETAINING RING PLIERS 10 SOCKET / WRENCH 12 SOCKET / WRENCH 14 SOCKET / WRENCH 17 SOCKET / WRENCH 19 SOCKET / WRENCH
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### TECH NOTES

1. YOUR ICON COILOVER ASSEMBLIES COME FACTORY CHARGED TO 250 PSI. RELEASING NITROGEN PRESSURE MAY LEAD TO SHOCK MALFUNCTION AND REDUCED RIDE QUALITY. FAILURE CAUSED BY LOW NITROGEN PRESSURE IS NOT COVERED UNDER ICON'S WARRANTY POLICY.
2. A GOOD CIRCLIP RING PLIERS WILL MAKE INSTALLATION EASIER AND REDUCE THE CHANCE OF SCRATCHING THE SHOCK BODY. KNIPEX 4521200 CIRCLIP PLIERS HAVE PROVEN TO BE A GOOD FIT.
3. SEE PAGE 9 FOR EXP SHOCK GROOVE SPECS.
4. INSTALL TIME: 3-4 HOURS



### WARNING!

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## INSTALLATION

1. 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. Remove the front wheels and tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE.
2. Remove the 4 bolts holding the front skid plate on using a 12mm.
3. Remove the sway bar linkage from the spindle using a 17mm. [FIGURE 1]



FIG.1

4. Remove the front cross members to allow the sway bar to be removed. There are three 17mm bolts holding each cross member to the frame.
5. Remove the sway bar brackets and sway bar using a 14mm. [FIGURE 2]

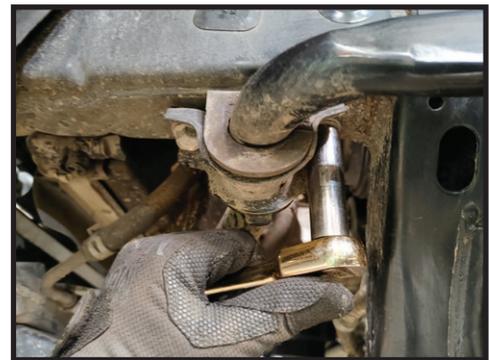


FIG.2

**6.** Remove the tie rod from the spindle. The cotter pin needs to be removed with a pliers, then using a 19mm to loosen the nut and remove it. To dislodge the tie rod from the spindle a hammer or air hammer can be used to strike the side of the mount, as shown. [FIGURE 3, 4, 5, 6]

FIG.3



FIG.4



FIG.5



FIG.6



**7.** Remove the 3 nuts from the top of the factory coilover mount using a 14mm. (Do not remove the large center nut as personal injury and damage could occur). [FIGURE 7]

FIG.7



**8.** Remove the lower coilover mounting bolt and nut using a 19mm. You may need to push down or raise the suspension to get the bolt out, once the nut is removed. [FIGURE 8]

FIG.8

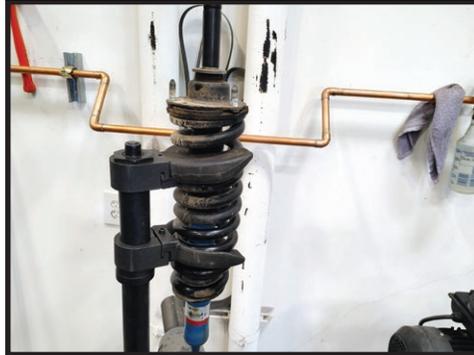


**9.** To remove the factory coilover, you may need to push down on the suspension. For 4wd trucks, turning the spindle may help the lower shock eyelet clear the CV boot while removing the shock from the arm. With the lower eyelet removed, pull the shock down and away from the vehicle.

**10.** Next, you will be removing the factory coil spring from the factory shock. You will be reusing the bushings and upper spring rubber isolator.

**11.** Use a spring compressor to compress the coil spring. [FIGURE 9]

FIG.9



**12.** Use a 17mm to remove the nut that holds the coil spring and upper mount on the shock. The factory 14mm nut will be reused. [FIGURE 10]

FIG.10



**13.** Now you can remove the upper mount, bushings and washers from the shock. Also remove the coil spring and set the factory shock aside. Take the factory upper mount and press the bushing out of it. A suitable socket or tube can be used and a hammer. It does not take much force to remove. [FIGURE 11]

FIG.11



**14.** Take that bushing that you just pressed out and press it into the new ICON upper mount.

**15.** Place in a vice to help with installation of the coil spring.

**16.** Take the supplied circlip and use the external snap ring pliers to spread it and slide it down the shock, into the groove of your choice. Refer to the graphic. Please see page 9 for Groove Specs. [FIGURE 12]

FIG.12



**17.** Next, slide the ICON coil seat over the shock until it sits on the circlip. Remove the factory rubber isolator from the factory upper mount and slip it onto the ICON coil seat. [FIGURE 13 & 14]

FIG.13



FIG.14



**18.** Place the factory coil spring onto the new ICON shock, rotated 180 degrees, so the flat side of the coil spring sits on the rubber isolator. [FIGURE 15]

FIG.15



**19.** Compress the coil spring until the factory washer, ICON upper mount and bushing, factory bushing and washer can be installed. Then thread the nut on and tighten until 4 threads are showing. Apply thread locker to the threads of the nut before installing. [FIGURE 16, 17, 18, 19]

FIG.16



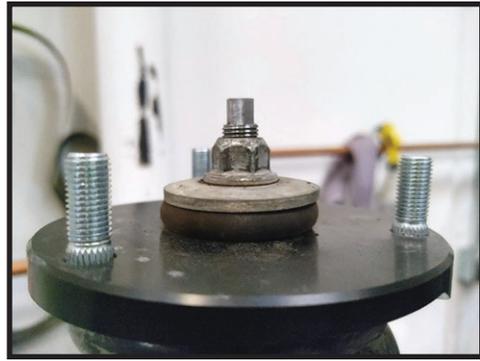
FIG.17



FIG.18



FIG.19



**20.** Make sure the pigtail (end) of the coil spring is lined up with the upper mount before releasing the spring compressor. [FIGURE 20]

FIG.20



**21.** Rotate the upper mount so that when the shock is installed, the coil spring bows inward towards the frame. This will help with install if still running a stock upper control arm.

**22.** Before installing the new coilover assembly, the ABS/Brake line bracket needs to be modified to clear the larger coilover. Remove the ABS line bracket using a 10mm. [FIGURE 21]

FIG.21



**23.** Use a cut off wheel and cut the portion of the larger brake line bracket off at the bend, as pictured. Be careful not to cut the brake line or ABS line. [FIGURE 22]

FIG.22



**24.** Remove the bracket that is attached to the ABS line. Cut the zip tie and pry open the pinch clamp. [FIGURE 23 & 24]

FIG.23

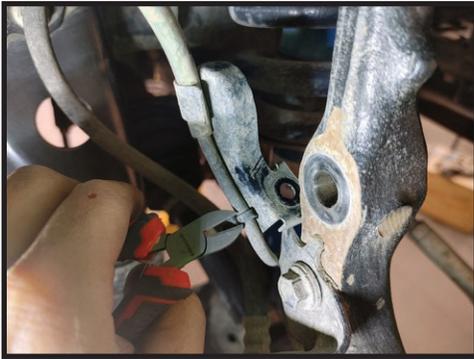
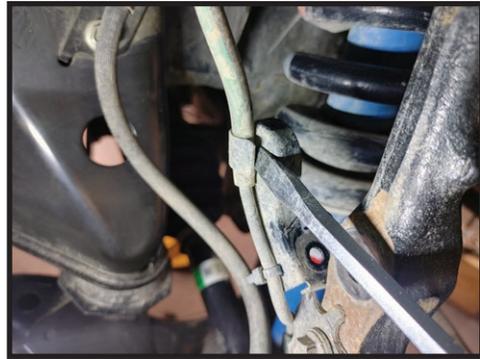


FIG.24



**25.** Remove the clip on the lower portion of the brake line bracket and place it on the backside of the bracket into the same hole. [FIGURE 25 & 26]

FIG.25



FIG.26

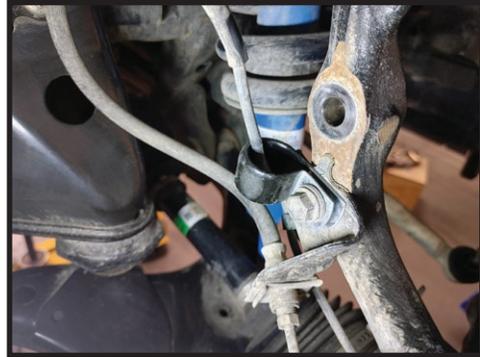


**26.** Remove the 12mm bolt holding the brake line bracket to the spindle. Secure the supplied adel clamp on top of the bracket with the factory bolt. Make sure the ABS line runs thru the adel clamp. [FIGURE 27 & 28]

FIG.27



FIG.28

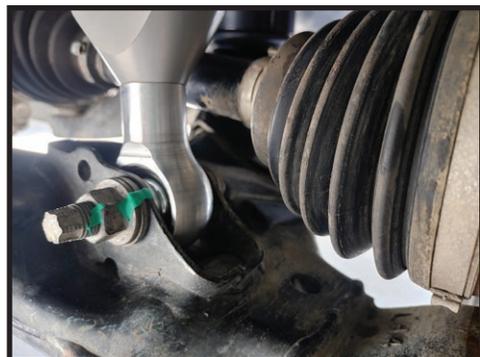


**27.** Install the new ICON coilover into position. Aligning the 3 studs with the 3 holes in the factory frame mount. Then swinging the lower eyelet into the lower arm pocket. The lower spacers are different lengths. The longer spacer goes towards the rear of the truck. Tighten all nuts and bolts to factory specs. [FIGURE 29 & 30]

FIG.29



FIG.30



**28.** Remove factory bump stop from the frame and install the supplied 5/16" thick washer between the bump stop and frame. Apply thread locker to the threads of the bump stop and tighten back onto the frame. [FIGURE 31]

**FIG.31**



**29.** Reinstall the tie rod, nut and cotter pin. [Torque to factory spec].

**30.** Reinstall the sway bar, if the ICON sway bar relocation kit was purchased, refer to those instructions for proper install.

**31.** Reinstall the sway bar links into the spindle. [Torque the nut to factory spec].

**32.** Repeat all steps on opposite side.

**33.** Be sure all nuts and bolts are tight. Reinstall wheels and tires. Torque lug nuts.



***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/>



**ICON VEHICLE DYNAMICS®**  
PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON Fax: 951.689.1016  
[www.iconvehicledynamics.com](http://www.iconvehicledynamics.com)



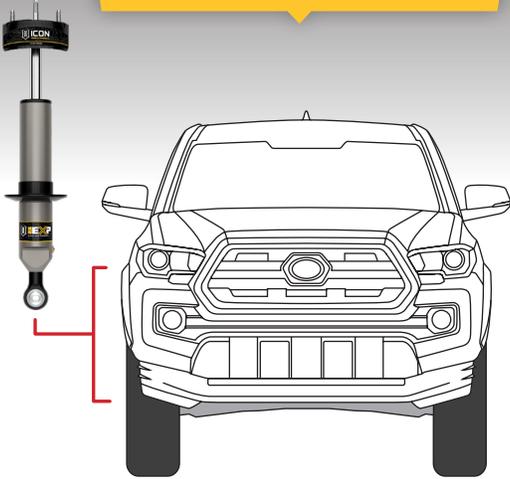
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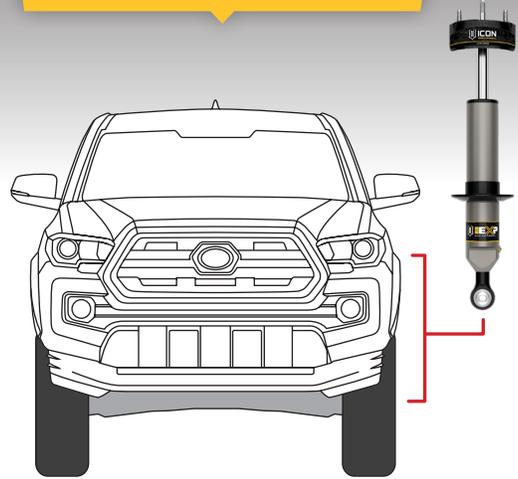
# ICON TACOMA FRONT EXP GROOVE SPECS

## FENDER TO HUB MEASUREMENT

**FACTORY  
RIDE HEIGHT: 21"**



**MAXIMUM  
RIDE HEIGHT: 23"**



**GROOVE 1:**



**Stock Height**

**GROOVE 2:**



**.65" LIFT**

**GROOVE 1 & 2**

**GROOVE 3:**



**1.12" LIFT**

**GROOVE 4:**



**1.5" LIFT**

**GROOVE 5:**



**2" LIFT**

**GROOVE 3, 4, 5**



7929 Lincoln Ave. Riverside, CA 92504  
 Phone: 951.689.ICON Fax: 951.689.1016

PART #	DESCRIPTION
611030	05+ TACO/07-09 FJ SWAYBAR RELOCATION KIT

COMPONENTS INCLUDED	
(2) 157100 05+ TACO SWAYBAR RELOCATION BRACKET	
HARDWARE INCLUDED	
(4) 605100 3/8-16 X .750 BOLT	(4) 605133 3/8 SAE FLAT WASHER
TOOLS REQUIRED	
JACK JACK STANDS	TORQUE WRENCH 14MM SOCKET / WRENCH
TECH NOTES	
N/A	



**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 INSTALLTION 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

- Place the vehicle on flat and level ground, then chock the rear tires.
- Disconnect the swaybar from the frame on both sides. Remove the (2) bolts using a 14mm socket/wrench and remove the bracket from the sway bar.
- Install the (157100) swaybar relocation block. Using the factory hardware, bolt the block to the frame [Torque to factory spec]. Make sure the block is positioned so that the new threaded holes are forward. Using the supplied (605100) bolts, (605133) washers and factory bracket, reinstall the swaybar in its new position. [Torque to 45 ft-lbs] [FIGURE 1 & 2]

FIG.1



FIG.2



**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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