# ICON Vehicle Dynamics K53004T Installation Instructions

Stage 4 Suspension System with Tubular UCA, Toyota Tacoma 4WD

Part number: K53004T

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# 56503R INSTALLATION INSTRUCTIONS

1-24-2020 REV.D

| 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<br>(1) 611050 2.0 UNIVERSAL 6" RESI MOUNT KIT |

## HARDWARE INCLUDED

611007 HARDWARE KIT

| | |
|---|---|
| (2) MEDIUM DUTY 9/16" ID STEM BUSHING<br>(1) MEDIUM DUTY 9/16" ID STEM WASHER | (1) MEDIUM DUTY 12MM ID STEM WASHER<br>(1) M12-1.25 LOCK NUT |

611050 HARDWARE KIT

| | |
|---|---|
| (1) 605131 3/8 SPLIT LOCK WASHER<br>(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<br>(1) 250000 6.00 UNIVERSAL RESI MT PLATE |

## TOOLS REQUIRED

| | |
|---|---|
| JACK<br>JACK STANDS<br>DRILL<br>CENTER PUNCH<br>21/64" DRILL BIT<br>LOCKING PLIERS | 17MM SOCKET / WRENCH<br>19MM SOCKET / WRENCH<br>5/16" SOCKET / WRENCH<br>9/16" SOCKET / WRENCH<br>TORQUE WRENCH<br>BARREL SANDER |

## 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. 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 CLOCKED DOWNWARD AND CLEAR OF MOUNT AS SHOWN. INCORRECT INSTALLATION IS NOT COVERED UNDER ICON'S WARRANTY.*

*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.*

*4. FAILURE TO SAND SHOCK MOUNT MAY CAUSE DAMAGE TO RESERVOIR FITTING, WHICH IS NOT COVERED UNDER ICON'S WARRANTY POLICY.*



## 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

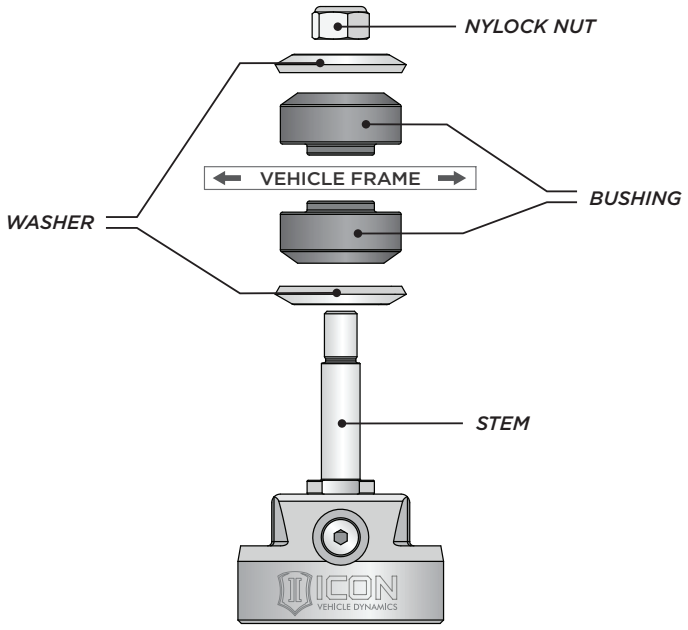
**1.** Using a properly rated jack, raise the rear of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the rear wheels.

**2.** 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.

**3.** Remove the rear shock from vehicle.

**4.** 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]

**5.** 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.




*MEDIUM DUTY STEM BUSHING DIAGRAM*



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***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]



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***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.***



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# 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.

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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