

PART #	DESCRIPTION
81520C	2016-UP TITAN XD 2-3" 2.5 VS RR CDCV COILOVER KIT

COMPONENTS INCLUDED	
(1) 184950RD 16+ TITAN XD 2.5 RR CDCV (DRVR)	(1) 611019 COILOVER HARDWARE KIT
(1) 184950RP 16+ TITAN XD 2.5 RR CDCV (PASS)	(1) 611051 HOSE CLAMP SET
(2) 250002 7.50 RESERVOIR MOUNTING PLATE	
HARDWARE INCLUDED	
(2) 605144 3/8-12 X .750 SELF TAPPING SCREW	
611019 HARDWARE KIT	
(6) 605101 3/8-16 X 1.000 BOLT	(6) 605131 3/8 SPLIT LOCK WASHER
611051 HARDWARE KIT	
(4) STAINLESS STEEL HOSE CLAMPS	
TOOLS REQUIRED	
JACK	TORQUE WRENCH
JACK STANDS	5/16" SOCKET / WRENCH
PLIERS	9/16" SOCKET / WRENCH
DRILL	14MM SOCKET / WRENCH
11/32" DRILL BIT	22MM SOCKET / WRENCH
TECH NOTES	
<p>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.</p> <p>2. YOUR ICON COILOVER ASSEMBLIES COME SHIPPED AT ICON'S RECOMMENDED RIDE HEIGHT. REDUCING DROOP TRAVEL WILL REDUCE RIDE QUALITY. DO NOT PRELOAD THE COIL BEYOND 0.50" OF EXPOSED THREADS BETWEEN THE BOTTOM OF THE TOP CAP AND THE TOP OF THE COIL ADJUSTER NUT. ADJUSTING PRELOAD BEYOND THIS SETTING WILL CAUSE THE COIL TO BIND AND DAMAGE WILL OCCUR TO COILOVER AND/OR VEHICLE.</p> <p>3. ADVERTISED LIFT HEIGHTS ARE DERIVED FROM DIESEL EQUIPPED MODELS. ACTUAL LIFT HEIGHTS MAY VARY BASED ON CERTAIN DRIVETRAIN AND TRIM CONFIGURATIONS.</p>	

PRODUCT IMAGE



COMING SOON

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 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.
2. Disconnect the outer tie rod end on both sides. Remove the cotter pin and loosen the nut a few turns using a 22mm socket/wrench. 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. [FIGURE 1 & 2]

FIG.1



FIG.2



3. Remove the (3) nuts securing the upper coil seat to the frame mount using a 14mm socket/wrench. DO NOT loosen or remove the large center nut securing the spring seat to the shock shaft. This will result in the stock coil assembly to come apart violently, causing damage to components and possible injury. [FIGURE 3]

FIG.3



4. Remove the bolt connecting the shock to the lower control arm using a 22mm socket/wrench. Note orientation, as this bolt will be reused. The head of the bolt should be facing forward. [FIGURE 4]

FIG.4



5. Remove the stock coilover assembly. Be careful not to damage any brake lines or wires.

6. Install new ICON coilover assembly with the reservoir hose pointing outward and toward the front of the vehicle. Fasten using (3) 3/8-16 X 1.000 bolts and (3) 3/8" lock washers. [Torque to 35 ft-lbs] [FIGURE 5]

FIG.5

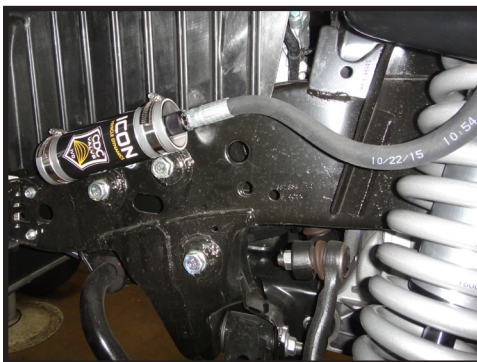


7. Fasten the coilover to the lower control arm: The lower shock mount has (1) long and (1) short spacer. Make sure that the long spacer is placed towards the rear of the vehicle. This will position the shock further forward for maximum coil to CV clearance. Reinstall the factory lower shock bolt. [Torque to factory spec]

8. Reinstall the outer tie rod end using a 22mm socket/wrench, and install a new cotter pin. [Torque to factory spec]

9. Drill a hole in the frame using an 11/32" drill bit. Fasten the reservoir mount using a 9/16" socket and the supplied self tapping screws. [FIGURE 6]

FIG.6



10. Mount the reservoir using the supplied hose clamps and a 5/16". Position the reservoir so the clamp bands are in the recessed groove on the reservoir and secure. **[FIGURE 7]**

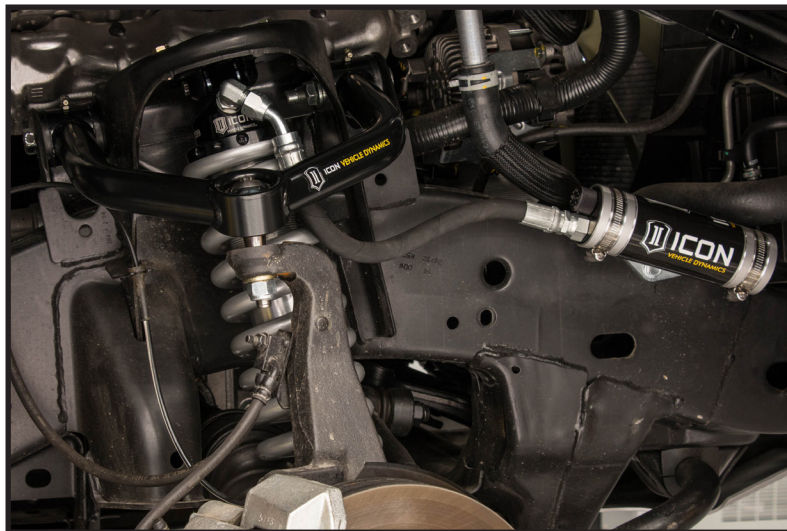
FIG.7



11. Reinstall the wheels and lower the vehicle back to the ground.

12. Have the vehicle professionally aligned.

[PASSENGER SIDE SHOWN]



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

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