

PART #	DESCRIPTION
IVD6125B	17-UP FORD RAPTOR .5-2.25" ATTITUDE ADJUSTMENT COLLAR

COMPONENTS INCLUDED	
(2) 197025 17-UP RAPTOR PERCH THREAD SIDE (2) 197026 17-UP RAPTOR PERCH C-BORE SIDE	(2) 190010 RAPTOR SHOCK TOWER SHIM (1) 605968 VIBRATITE BLUE 2ML BULLET
HARDWARE INCLUDED	
(8) 605086 5/16-18 X 1.50 ALLEN BOLT	(6) 605846 M10-1.50 SERRATED FLANGE NUT
TOOLS REQUIRED	
JACK JACK STANDS HD SPRING COMPRESSOR TORQUE WRENCH 1/4" ALLEN SOCKET	15MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 27MM SOCKET / WRENCH 30MM SOCKET / WRENCH
TECH NOTES	
<p>1. THIS KIT IS CONFIGURABLE TO 5 DIFFERENT RIDE HEIGHTS AS DESIRED. REFER TO CHART ON LAST PAGE TO SEE WHICH CONFIGURATION PROVIDES YOUR DESIRED LIFT HEIGHT. ICON HIGHLY RECOMMENDS THE 1.5" LIFT SETTING WHICH CONSISTS OF THE 3/8" TOP SHIM AND THE COLLAR ON THE LOWER SETTING. THIS WILL YIELD THE BEST OVERALL RIDE QUALITY AND PERFORMANCE.</p>	



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 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. 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. Remove the shock assemblies from the vehicle: NOTE: to gain access to the three nuts on the upper mount it helps to unclip the wiring harness on the side of the battery as shown. On the passenger side, using a long handle ratchet toward the back of the vehicle is the easiest option. [FIGURE 1 & 2]

FIG.1



FIG.2



3. Disconnect the tie rod and upper arm from the knuckle: Loosen the nuts using an 18mm and 21mm and strike the side of the knuckle at the taper to dislodge. Support the top of the knuckle to prevent it from flopping outward and over extending the CV joints. Disconnect the sway bar link at the sway bar using an 18mm. [FIGURE 3]

FIG.3



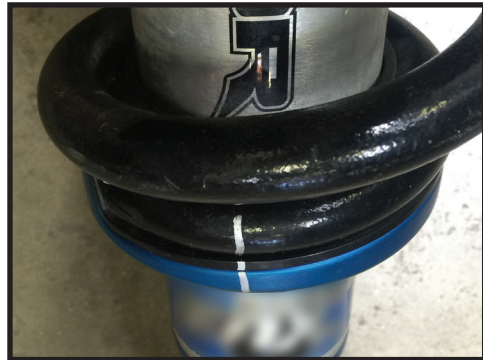
4. Remove the lower shock bolt using a 27mm and 30mm. Remove the three upper shock mount bolts. Do not loosen the center nut on the top of the shock or the assembly can come apart violently resulting in damage and/or injury. Remove the assembly from the vehicle. Push down on the lower control arm to get the bottom of the shock to come out of its mounting pocket in the arm. If the knuckle is held slightly outward from vertical the arm will flex downward easier.

5. With the shock out of the vehicle, mark the alignment of the top and bottom of the coil to the seats and to the shock body. Note that the three studs on the top of the shock are not symmetrical, two are close together, the third is in line with the bolt axes on the bottom. [FIGURE 4 & 5]

FIG.4



FIG.5

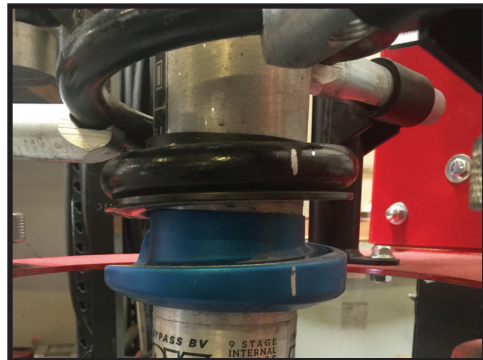


6. It is not necessary to disassemble the shock or coil, however the spring will need to be compressed a couple of inches. A quality spring compressor is necessary; we recommend a three arm style as shown in the photos. [FIGURE 6]

FIG.6



FIG.7

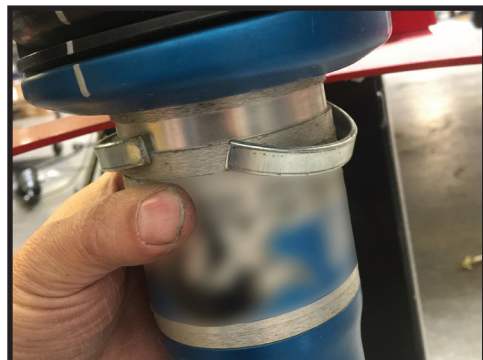


7. Position the compressor to grab as high and low on the coil as possible. Compress the coil until the spring comes out of contact with the lower seat. Using a rubber mallet, tap the blue lower seat up the shock body. It will have to go over the sticker and will be tight at this point. This will expose 2 half ring locking collars, remove the collars. [FIGURE 7 - 9]

FIG.8



FIG.9



8. Position the split preload collar on the shock with the text of the desired lift height upward (note the lift height indicated assumes the upper shim ring is also used). Make sure the inner locking portion is in the locking groove on the shock body. Make sure that both halves have the inner locking portion facing the same way. Secure with the supplied stainless allen head bolts. [Torque to 20 ft-lbs]. Don't over compress one side, make sure that the slit on each side is approximately the same. Slowly release the spring compressor making sure the blue spring seat goes over the nose of the preload collar. [FIGURE 10]

FIG.10



FIG.11



9. As you release tension make sure you have maintained alignment with your marks. By putting a rod or extension in the lower eyelet you can visually check that it is in line with the 3rd mount bolt. [FIGURE 11]

10. Reinstall in vehicle: slide the upper 3/8" ring over the three studs. Secure the upper mount with the supplied flange lock nuts and blue thread locker [Torque to 33 ft-lbs]. Reinstall lower shock bolt. Reinstall upper ball joint to knuckle, tie rod, and sway bar link. [Torque to factory spec]

FIG.12



FIG.13



11. Reinstall wheels and secure the wire harness clip on the side of the battery. Lower vehicle back to the ground. [Torque lugs to factory spec]

12. Have the vehicle professionally aligned.

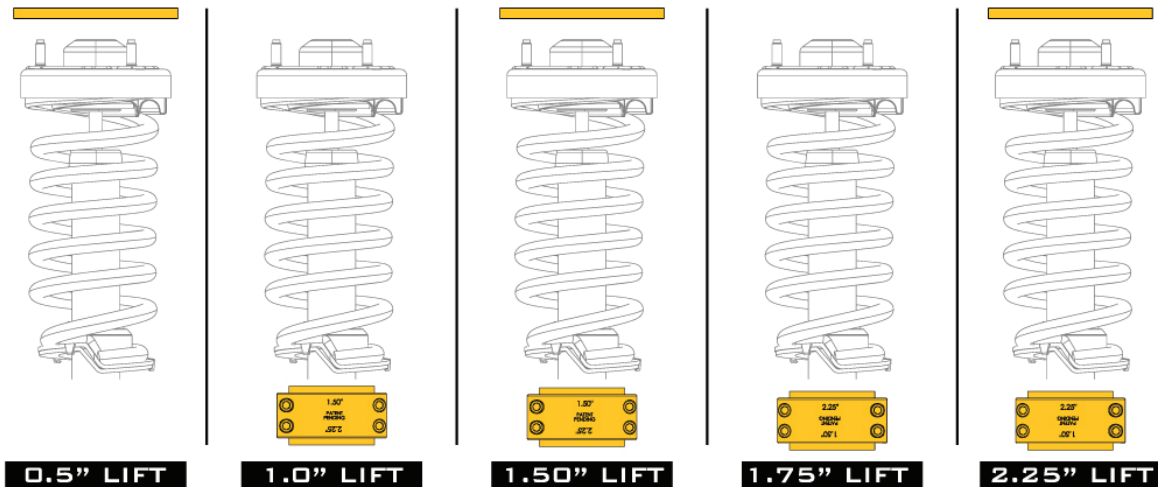
VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

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



ICON VEHICLE DYNAMICS

2017-UP RAPTOR ATTITUDE ADJUSTMENT COLLAR



*COILOVER ASSEMBLY PICTURED DOES NOT REPRESENT 2017-UP RAPTOR, FOR ILLUSTRATION PURPOSES ONLY!

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.

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.

ICON VEHICLE DYNAMICS

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



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