

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

PART #	DESCRIPTION
91355	19-UP FORD RANGER EXTENDED TRAVEL 2.5 VS RR COILOVER KIT

COMPONENTS INCLUDED

(1) 194931RD 19-UP RANGER EXT TRAVEL 2.5 VS RR COILOVER (DRVR)	(2) 250002O 7.5 OFFSET RESI MOUNT PLATE
(1) 194931RP 19-UP RANGER EXT TRAVEL 2.5 VS RR COILOVER (PASS)	(1) 611019 COILOVER HARDWARE KIT (PAIR)
	(1) 611051 STAINLESS STEEL HOSE CLAMP KIT
	(1) 611052 COILOVER LOWER HARDWARE KIT (PAIR)

HARDWARE INCLUDED

(2) 605131 3/8" SPLIT LOCK WASHER	(2) 605144 3/8-12 X .750 SELF TAP BOLT
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611019 HARDWARE KIT

(6) 605101 3/8 X 1.00 BOLT	(6) 605131 3/8 SPLIT LOCK WASHER
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611052 HARDWARE KIT

(4) 605205 7/16-14 X 2.750 BOLT	(4) 605231 WASHER 1.00
(4) 605230 7/16 FLAT WASHER	

TOOLS REQUIRED

FLOOR JACK	TORQUE WRENCH
JACK STANDS	15MM SOCKET / WRENCH
DRILL	18MM SOCKET / WRENCH
11/32" DRILL BIT	5/16" SOCKET / WRENCH
AIR HAMMER	9/16" SOCKET / WRENCH
SAWZALL / ANGLE GRINDER	5/8" SOCKET / WRENCH

TECH NOTES

1. THIS EXTENDED TRAVEL COILOVER REQUIRES AN UPPER CONTROL ARM (PN: 98510DJ) OR (PN: 98520DJ). FAILURE TO USE ICON UPPER CONTROL ARM WITH THIS SHOCK WILL LEAD TO FAILURE, NOT COVERED UNDER ICON'S WARRANTY POLICY.

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 LESS THAN .438" OR MORE THAN 2.25" 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.

3. YOUR ICON SHOCK 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.

4. TO FIT ICON'S RECOMMENDED TIRE SIZE, THE FRAME HORN EXTENSION MUST BE REMOVED. ALTHOUGH THE BARS ARE EASILY UNBOLTED THEY CAN NOT SLIDE OUT OF THE MOUNTS WITHOUT CONTACTING THE BODY. THEREFORE, IT IS NECESSARY TO CUT THE BARS AND REMOVE THEM IN 2 PIECES.



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

- 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.
- Disconnect the UCA from the spindle using an 18mm. 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. [FIGURE 1]

FIG.1



FIG.2



- Remove the studs from the lower shock bar pin mount where it attaches to the lower arm. This can be difficult, it is recommended to use an air hammer to knock the studs out. It can be done with a heavy hammer or hand sledge. [FIGURE 2]

- Remove the nut from the rear stud first, leaving the front one tight, as this is the harder one to get to. Doing this will help to hold the bar pin securely while you hammer the rear one out. The stud has a press fit knurled surface. Hammer the stud up and out of the bar pin. Now remove the nut from the front of the bar pin and hammer out the other stud.

5. Disconnect the tie rod from the spindle using an 18mm. 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 using a ball joint separator or by striking the spindle on the outside of the taper with a large hammer. [FIGURE 3]

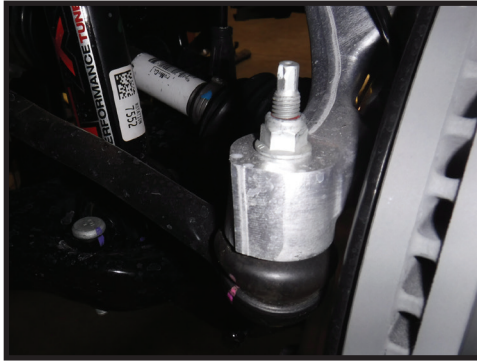


FIG.3



FIG.4

6. Using a 15mm, remove the (3) nuts from the upper mount. DO NOT loosen or remove the large nut in the center of the coil assembly! [FIGURE 4]

7. Install the ICON coilover. This may require you to pry downward on the lower arm to get the rod end into the lower control arm pocket.

8. Mount the top of the coilover to the frame using (3) bolts and washers from the (611019) hardware kit. Rotate the charge port of the shock outward and forward 30 degrees so that the correct set of threaded holes aligns with the coil bucket. Fasten using a 9/16". [Torque to 30 ft-lbs] [FIGURE 5]



FIG.5



FIG.6

9. Mount the bar pin to the lower control arm: Confirm that the nut on the bar pin is facing forward. Use the supplied (611052) hardware kit to install the 7/16" bolts and washers up through the arm and into the bar pin. There are two washers per bolt, the heavy black washer goes against the arm and the standard washer goes against the head of the bolt. Start the bolts, slide the bottom of the coilover as far forward as you can in the pocket and then tighten with a 5/8" socket wrench. [Torque to 50 ft-lbs] [FIGURE 6]

10. Position the reservoir on the reservoir bracket against the frame to find the mounting hole location. Mark the hole position for drilling. [FIGURE 7]

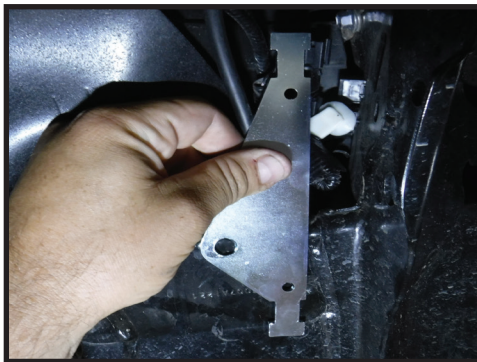


FIG.7



FIG.8

11. Use an 11/32" drill bit to drill a hole in the position indicated. [FIGURE 8]

12. Using the supplied 3/8" self tapping screws and a 9/16" socket, tighten the screws to form threads in the hole. After the hole is fully threaded, remove the screw. [FIGURE 9]

FIG.9



13. Mount the reservoir bracket using the self-tapping screw and a 9/16".

14. Mount the reservoir to the bracket using the supplied hose clamps and a 5/16". [FIGURE 10 & 11]

FIG.10



FIG.11



15. Refer to the appropriate ICON UCA instructions and follow directions for installation.

16. Connect the tie rod to the spindle using an 18mm. [Torque to factory spec]

17. To fit ICON's recommended tire size, the frame horn extension must be removed. Although the bars are easily unbolted they can not slide out of the mounts without contacting the body. Therefore, it is necessary to cut the bars and remove them in 2 pieces. Using a sawzall or cutting disc cut the tubes as shown. Unbolt and remove the remaining inner pieces. [FIGURE 12 & 13]

FIG.12



FIG.13



18. Repeat steps for opposite side.

19. Install the front wheels and lower the vehicle to the ground. [Torque lugs to factory spec]

20. 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.

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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
97730P	19-UP FORD RANGER REAR 2.5 PIGGYBACK RESERVOIR SHOCKS

COMPONENTS INCLUDED	
(2) 194932 19-UP RANGER REAR 2.5 PIGGYBACK RESERVOIR	(4) 198400 19-UP RANGER OVERLOAD CONTACT PAD
TOOLS REQUIRED	
FLOOR JACK JACK STANDS	TORQUE WRENCH 15MM SOCKET / WRENCH
TECH NOTES	
1. YOUR ICON SHOCK 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.	



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INSTALLATION

1. Using a properly rated jack, raise the back 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.
2. Remove the factory rear shock using a 15mm socket/wrench.
3. Install the rod end of the ICON shock in the upper mount. [FIGURE 1]

FIG.1



4. Install the ICON shock in the lower mount. Make sure the reservoir is inboard and slightly toward the differential as shown. Firmly pull down on the differential enough to line up the shock with the lower mounting hole and start the bolt. Make sure the nuts are properly retained in the sheet metal retainers. When tightening the lower shock bolt, push up on the shock as much as possible to prevent contact with the mounting tabs. Slight sanding of the mounting tabs may be necessary. Torque upper and lower shock bolts to factory spec using a 15mm. [FIGURE 2] & [FIGURE 3]

FIG.2



FIG.3



5. Replace the overload leaf spring contact pads. Pop out the existing rubber tip contact pads located on both ends of the overload leaf. Press in the supplied low profile tip contact pads. This will allow the overload to engage further into the travel of the suspension, improving the ride and performance while reducing rear spring kick.

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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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.

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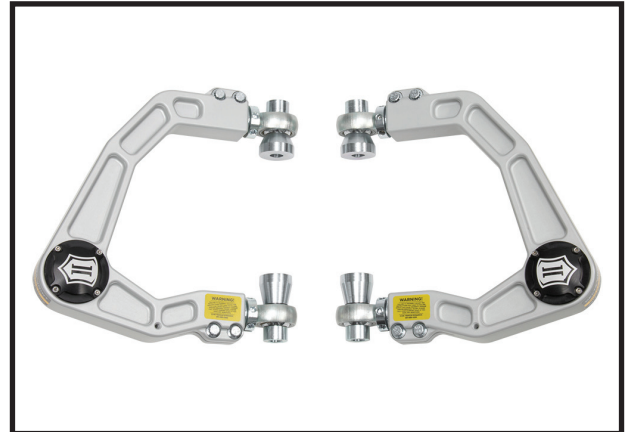
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PART #	DESCRIPTION
98520DJ	2019-UP FORD RANGER BILLET UCA DJ KIT

COMPONENTS INCLUDED	
(1) 197515 19-UP RANGER BILLET UCA (DRVR)	(1) 197516 19-UP RANGER BILLET UCA (PASS)
HARDWARE INCLUDED	
(2) 177200BJ DELTA JOINT (1) 605968 VIBRATITE BLUE THREAD LOCK	(4) 197502 HEIM SPACER RSMX12 X 14MM X 2.125 (2) 297011 HEIM SPACER 14MM X 2.625 X 1.47 (2) 297012 HEIM SPACER 14MM X 3.25 X 1.35
DUST COVER COMPONENTS KIT	
(2) 155110 -032 O-RING, NITRILE 70A (2) 157507 BILLET UCA DUST COVER	(8) 605002 6-32 X 0.500 SOCKET SCREW
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH FLATHEAD SCREWDRIVER	3MM ALLEN WRENCH 3/8" 12PT SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH
TECH NOTES	
<p>1. 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>2. 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>3. DO NOT EXCEED 1.875" ADJUSTMENT FROM THE CENTER OF THE ROD END TO THE EDGE OF THE BILLET UPPER CONTROL ARM. FAILURE CAUSED BY EXCESSIVE ADJUSTMENT WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY. REFER TO TECH NOTE PHOTO #2.</p>	



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>

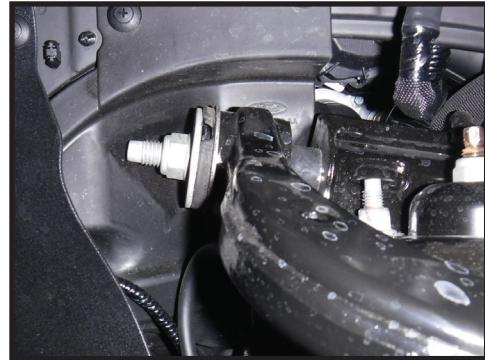
INSTALLATION

- 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.
- Carefully pull the ABS wire retainers from the UCA. [FIGURE 1]

FIG.1



FIG.2



- Remove the nut from the frame bolt using an 18mm on the bolt head and 21mm on the nut. [FIGURE 2]

4. Disconnect the UCA from the spindle using an 18mm. 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. [FIGURE 3]

FIG.3

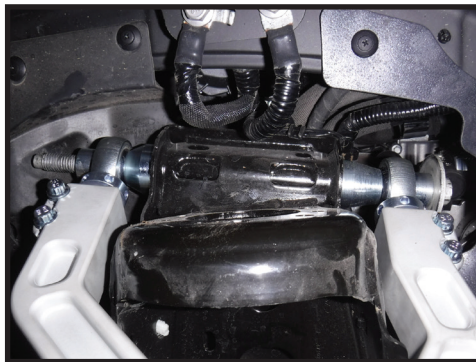


5. Separate the UCA from the spindle and support the spindle so that it does not overextend the CV joints when detached.

6. Slide the frame bolt out from the back of the UCA and remove the assembly from the vehicle.

7. Install the ICON UCA. Hold the UCA in position and slide the frame bolt in from the back of the UCA. Install the nut and tighten using an 18mm and 21mm. [Torque to factory spec] [FIGURE 4]

FIG.4



8. 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. Rotate the upper control arm downward and install the stem through the spindle taper. Install two washers per side with the supplied flanged nut on the taper pin. Connect the UCA to the spindle using an 18mm. [Torque to 60 ft-lbs]

9. Connect the ABS lines to the threaded hole in the bottom of the UCA.

10. Install the dust cover: Make sure that the o-ring is seated in the groove in the cap and apply anti-seize to the (4) allen head screws. DO NOT over tighten.

11. Repeat steps on opposite side.

12. Reinstall wheels and carefully lower vehicle to the ground. [Torque lugs to factory spec]

13. Have the vehicle professionally aligned.

14. Once aligned, apply BLUE thread locker to the outer pinch bolts located on the sides of the arm. Tighten the pinch bolts in an opposing pattern at least 3 times. [Torque to 35 ft-lbs]

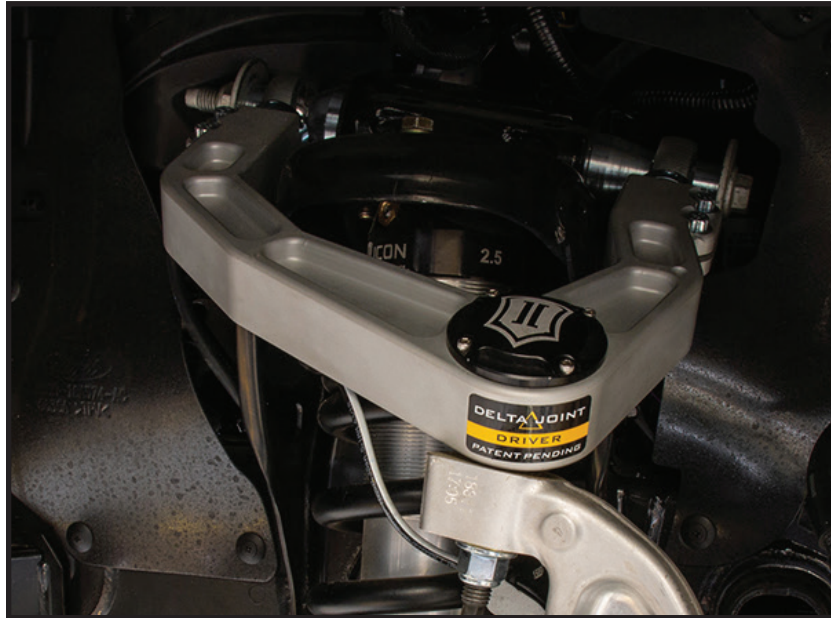
ALIGNMENT NOTE

ICON SHIPS THE BILLET UPPER CONTROL ARM AT THE MOST COMMON ALIGNMENT SETTING. ONE OF THE MAJOR PERFORMANCE ADVANTAGES OF AN ICON BILLET ADJUSTABLE UPPER CONTROL ARM IS THE ABILITY TO IMPROVE WHEEL POSITION. IMPROVING WHEEL POSITION IMPROVES FIREWALL CLEARANCE ALLOWING FOR LARGER TIRES AS THE SUSPENSION CYCLES. IN ORDER TO TAKE ADVANTAGE OF THIS FEATURE, DISCUSS WITH YOUR PROFESSIONAL ALIGNMENT SHOP THAT YOU WOULD LIKE TO CAM THE LOWER CONTROL ARM TO MAXIMIZE WHEEL POSITION FORWARD AND THEN ADJUST CAMBER AND CASTER WITH THE UPPER THREADED ADJUSTERS.

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.

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

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PART #	DESCRIPTION
191205	UNIVERSAL FOAM BUMP STOP KIT

COMPONENTS INCLUDED	
(2) 255150 UNIVERSAL FOAM BUMP STOP	(2) 297052 UNIVERSAL BUMP STOP CUP
HARDWARE INCLUDED	
(2) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT	
TOOLS REQUIRED	
TOOLS REQUIRED WILL VARY DEPENDING ON APPLICATION	
TECH NOTES	
<p>1. THIS IS A UNIVERSAL BUMP STOP KIT. THE INSTALLER IS RESPONSIBLE FOR PROPER MOUNTING OF THESE COMPONENTS. ICON RECOMMENDS CYCLING THE SUSPENSION TO ENSURE PROPER FITMENT OF THIS KIT.</p>	



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. Remove factory bump stop from factory bump stop cup. [FIGURE 1 & 2]

FIG.1

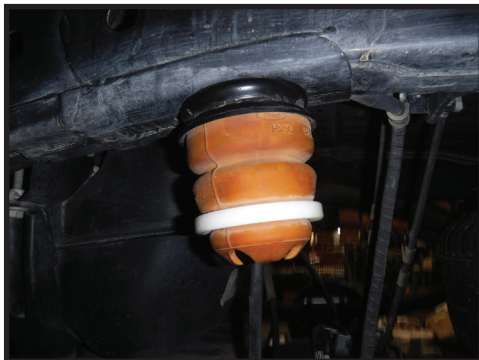


FIG.2



2. Using appropriate tools, remove the factory BUMP STOP cup by removing the center bolt.

3. Using the factory bolt, fasten the Bump Cup (PN: 297052). [FIGURE 3 & 4] [Torque to factory spec]

FIG.3

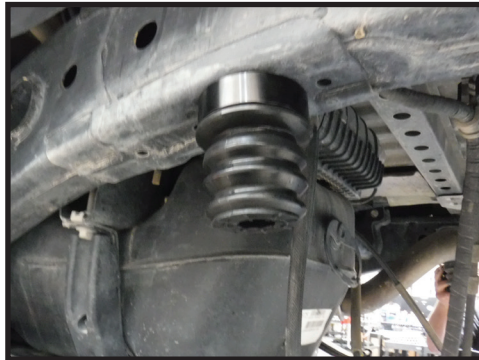


FIG.4



4. Snap the bump stop into the bump cup as shown. [FIGURE 5]

FIG.5



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.

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.