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PART #	DESCRIPTION
44000T	21-UP BRONCO TUBULAR REAR LOWER LINK KIT

COMPONENTS INCLUDED	
(1) 144032 21-UP BRONCO TUBULAR REAR LOWER LINK DRVR ASSEMBLED	(1) 144033 21-UP BRONCO TUBULAR REAR LOWER LINK PASS ASSEMBLED
HARDWARE INCLUDED	
(1) 605969 RED THREAD LOCKER 2ML BULLET	
TOOLS REQUIRED	
FLOOR JACK JACK STANDS (4) TAPE MEASURE & FINE-TIP FELT MARKER CUT-OFF WHEEL FLAT SCREWDRIVER SOFT DEAD BLOW HAMMER PRY BAR AND SPUD BAR	FUEL LINE DISCONNECT TOOL BODY PANEL REMOVAL TOOL TORQUE WRENCH 18MM SOCKET / WRENCH 24MM SOCKET / WRENCH 9/64" HEX KEY T25 TORX
TECH NOTES	
<p>1. INSTALLATION WILL REQUIRE LOWERING OF THE VEHICLE'S FUEL TANK, THEREFORE IT IS RECOMMENDED TO HAVE LESS THAN A 1/4 TANK OF FUEL WHEN PERFORMING THE INSTALLATION, TO LIGHTEN THE TANK AND MAKE HANDLING IT EASIER.</p> <p>2. IF FUEL RETURN LINE RETAINING CLIP IS BROKEN USE DORMAN 800-041.</p> <p>3. DO NOT EXCEED 3.375" ADJUSTMENT FROM THE CENTER OF THE ROD END TO THE EDGE OF THE BILLET LINK. FAILURE CAUSED BY EXCESSIVE ADJUSTMENT WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.</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. Ensure the vehicle is parked on a flat, level surface with the transmission in PARK (or in first gear if the vehicle is equipped with a manual transmission) the parking brake set and the engine turned off. Securely chock the front tires to prevent the vehicle from rolling forward or backward when the rear tires are lifted. Wear safety glasses from this point forward.
2. Use a floor jack under the rear differential to lift the rear of the vehicle and remove the rear tires.
3. Place two heavy duty jack stands under the manufacturer's recommended lift points at the rear of the vehicle's frame (not under the axle or suspension components). Ensure that the vehicle is at a sufficient height to allow 3-4" of clearance between the floor and the wheel hubs/rotors with the suspension extended. Make sure that the vehicle's weight is securely supported on the jack stands with no wobbling or movement before proceeding. NEVER WORK UNDER AN UN-SUPPORTED VEHICLE.
4. Use a 24mm socket and ratchet or driver to remove the lower track bar pivot bolt from the rear-passenger side of the rear axle [FIGURE 1]. It may be necessary to attach a ratchet strap between the upper and lower track bar mounts to draw them together and relieve pressure, to remove the bolt. [FIGURE 2]

FIG.1



FIG.2



5. Install the passenger side lower link first, which will require lowering the fuel tank to access the frame-side pivot bolts. Begin by disconnecting the wiring harness from the rear of the fuel tank. The connector is located above the fuel filler hose.

**6.** Use a flat screwdriver to loosen the hose clamp from the fuel filler hose where it attaches to the top-rear of the fuel tank [FIGURE 3]. Use a fuel line spring-lock tool to disconnect the fuel vent line [FIGURE 4].

FIG.3



FIG.4



**7.** Position two jack stands underneath the vehicle's fuel tank, one at each end of the tank. The following procedure will be easier using screw-jacks rather than notch-bar jack stands, to facilitate controlled lowering of the tank.

**8.** Use an 18mm socket and ratchet or driver to loosen the bolts that secure the vehicle's fuel tank skid plate to the frame, eight (8) bolts (with skid plates), four (4) bolts (with straps). Take care to ensure that the fuel tank's weight sits securely on to the jack stands before completely removing these bolts. [FIGURE 5 & 6]

FIG.5



FIG.6



**9.** Slowly lower the fuel tank down a few inches, taking care to keep the tank as level as possible, until you can see and reach the fuel return line on the top of the tank. The line will be located along the side of the frame rail above the tank. The connector will have a white retaining clip on it [FIGURE 7]. Remove the retaining clip and disconnect the fuel line [FIGURE 8]. A small pick may be used to carefully pull the retaining clip.

**NOTE:** If retaining clip is broken please see tech note.

FIG.7

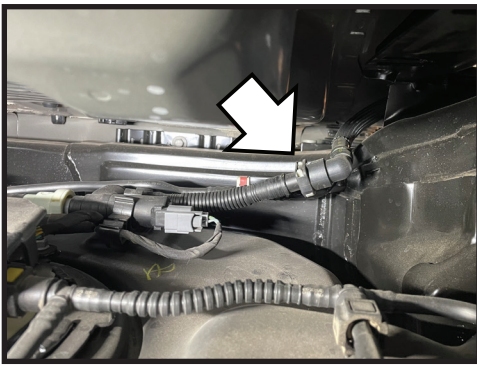


FIG.8



**10.** Disconnect the wiring harness from the top of the fuel tank. [FIGURE 9]

FIG.9



**11.** Near the top-front of the tank, use a body clip removal tool to pull the wiring harness retainer from the retaining hole in the tank (4-Door Bronco only) [FIGURE 10]. Dislodge the fuel line from the groove in the top of the tank. [FIGURE 11]

FIG.10



FIG.11



**12.** Carefully lower the fuel tank, taking care to keep it steady and secure on the jack stands as it is lowered. Lower the tank enough to allow access to the lower link bracket on the inboard side of the passenger side frame rail.

**13.** Note the sheet metal cover that covers the head of the passenger side lower link pivot bolt [FIGURE 12]. Use a T25 Torx bit and ratchet to remove the two screws that secure the bolt cover [FIGURE 13]. Set the cover aside.

FIG.12

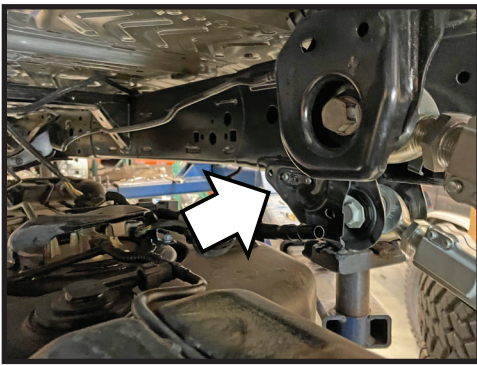
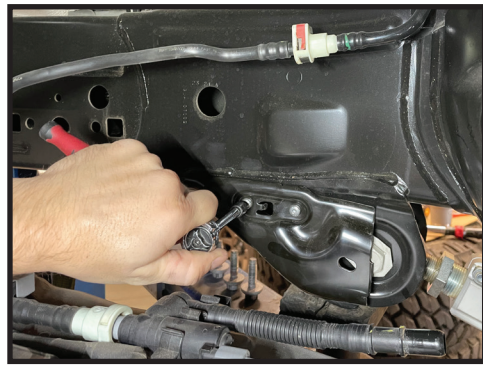


FIG.13



**14.** Use a 24mm deep socket and ratchet or driver to remove the nut from the lower link pivot bolt, frame end. Remove the bolt while taking care to secure the link with a bungee cord, ratchet strap or the hand of a friend, as it may fall out of the link pocket once the bolt is moved.

**15.** Use the 24mm socket and ratchet to remove the front lower link pivot bolt and nut from the axle end of the lower link. Remove the OE lower link and set it aside as it will not be re-used.

**16.** The rear lower link bolt nut has a long keeper tab, measure 1-1/4" from the end of the keeper tab and mark it. Use a cut-off wheel to cut at the mark. The result should be that the keeper tab (on the axle housing pivot bolt only) is 1-1/4" shorter, as shown on the left in. [FIGURE 14]

FIG.14



**17.** Install the either side lower link with the bushing toward the axle housing and the bend near the rearward end pointed up. Insert the heim/spacer into the lower link mount on the vehicle's frame, with the longer heim spacer oriented toward the outboard side of the frame rail [FIGURE 15]. Re-install the OE lower link (frame end) bolt through the mount, heim and spacer.

**FIG.15**  
(Driver side shown)



**18.** Insert the bushing end of the ICON link arm into the lower link mounts on the axle housing. The link will be offset in the axle housing, with the wide spacer towards the center of the vehicle. It may be necessary to carefully tap the link into place using a soft dead-blow mallet to avoid marring the anodized finish of the arm. Re-install the modified pivot bolt (with the shortened retainer tab) and tap it into place. [FIGURE 16]

**FIG.16**  
(Driver side shown)



**19.** Re-install the OE lock nuts onto both the front and rear lower link pivot bolts. Use a 24mm socket and torque wrench to torque them to factory-recommended specifications.

**20.** Repeat the installation process for the remaining 21-UP FORD BRONCO REAR LOWER TUBULAR LINK.

**21.** Use a T25 Torx driver to re-install the pivot bolt cover on the inboard side of the frame rail at the axle end pivot bolt, which was removed in a previous step.

**NOTE:** If installing 21-UP FORD BRONCO REAR UPPER TUBULAR LINK KIT (Part #44100T) at the same time as this kit, switch to those instructions at this time to complete the upper arm installation before lifting the fuel tank back into place. After installing the upper control arms, return to these instructions to complete the installation of the lower control arms.

**22.** Re-connect all fuel tank lines and wires then lift the fuel tank back into place. Work backwards through the previous steps for disconnecting and lowering the fuel tank, to make sure all necessary connections are made. Be careful when lifting the tank back into place, taking care not to drop the tank off of it's jack stands or pinch any lines or wires while lifting it back.

**23.** Apply red thread locker compound (605969) to the threads of the OE fuel tank/skid plate mounting bolts and reinstall them [FIGURE 17]. Use an 18mm socket and torque wrench to torque these fasteners to factory specifications [FIGURE 18].

**FIG.17**



**FIG.18**



**24.** Reinstall fuel fill hose and reconnect the fuel vent line and electrical connection at the rear of the fuel tank.

- 25.** Move to the driver side and repeat the previous steps (minus lowering the fuel tank) to install the driver side lower link. At the frame end, remember to orient the long side of the heim spacer toward the outboard side of the vehicle. At the axle end, remember to trim 1-1/4" from the keeper tab on the pivot bolt for the axle end of the link. Torque both pivot bolts to factory specifications.
- 26.** Reinstall the lower track bar pivot bolt into the track bar and bracket at the rear-passenger side of the rear axle. It may be necessary, again, to attach a ratchet strap between the upper and lower track bar mounts to draw them together and relieve pressure while re-installing the bolt [FIGURE 1]. Torque the lower track bar pivot bolt to factory specifications.
- 27.** If the vehicle is equipped with ICON coilover shocks, use the included Billet Hose Clamps (147024) to secure the shock reservoir hoses to the top of the Lower Control Arm. Use a 9/64" hex key and the included #8-32 X 3/4 SS Socket Head Cap Screws to secure the hose with two (2) clamps on each control arm. If the vehicle is not equipped with coilover shocks, the clamps are not used.
- 28.** Reinstall the vehicle's wheels and tires. Tighten the wheel lug nuts to factory specifications.
- 29.** If custom pinion angle is desired you can adjust this with the vehicle on the ground. Do not adjust further than 3.375" from the center of the rod end to the edge of the billet link.

**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.



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PART #	DESCRIPTION
48400DJ	21-UP BRONCO TUBULAR UCA DJ PRO KIT

COMPONENTS INCLUDED	
(1) 144000 21-UP BRONCO DRIVER UCA (1) 144001 21-UP BRONCO PASSENGER UCA (2) 297166 DELTA PRO TUBULAR UCA DUST COVER	(2) 290023 UCA CAP 3M DBL STICK 2.6 X 2.2 X 5 MIL
HARDWARE INCLUDED	
(4) 147014 21 BRONCO UCA 1.375 X .563 X 2.830 SLEEVE (8) 297034 HAT BUSHING 1.625 X 1.000 X .850	(4) 297042 POLY RING 1.590 X 1.005 X .250 BLK (4) 605903 1/4-28 X 90 DEG STEEL ZERK FITTING
TOOLS REQUIRED	
JACK STANDS JACKS RATCHETS EXTENSIONS PHILLIPS SCREWDRIVER BODY CLIP REMOVAL TOOL TORQUE WRENCH	3/8 12-PT 8MM SOCKET / WRENCH 10MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM 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>	

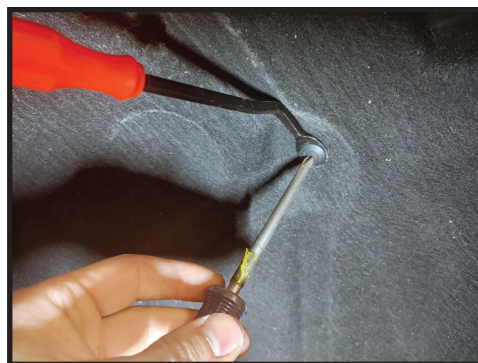


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## INSTALLATION

1. Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.
2. Remove fender line for easier access to bolts. (UCA removal and installation can be done without removing the fender liner) Four 7mm screws holding the liner to the fender. 14 phillips push pins spread through the rest of the liner. Apply pressure behind the pin while unscrewing the plastic screw. Once the screw is out, pull the rest of the pin assembly out. [FIGURE 1]

FIG.1



**3.** On Driver side only, disconnect the steering shaft coupler. Remove the 10mm bolt and push the black grooved shaft into the body. Before removal, make sure the steering wheel is straight. Do not turn steering while disconnected.

**4.** On passenger side of 4-cylinder models, remove the heat shield using an 8mm. [FIGURE 2 & 3]

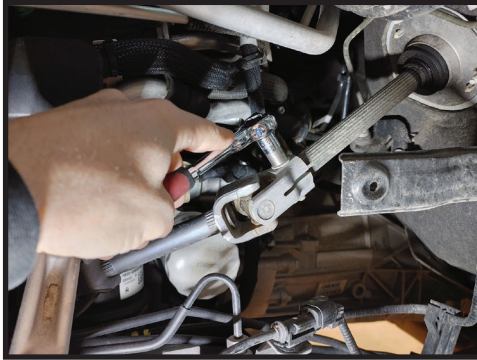


FIG.2



FIG.3

**5.** Remove balljoint from the spindle using an 18mm, leave the nut on loosely. To free the taper from the spindle, a hammer or balljoint separator can be used. [FIGURE 4]



FIG.4

**6.** Support the spindle so the CV joints do not overextend and remove the balljoint nut.

**7.** Loosen and remove the UCA pivot bolt from the frame, using a 21 and 24 mm. remove the UCA.

**8.** Before installing the ICON tube UCA, the bushings need to be greased and assembled with high grade moly or wheel bearing grease.

**9.** Install the supplied 90° grease zerks into the bushings housings, making sure the zerks point out, towards the tire.

**10.** Install the UCA now using factory pivot bolt and torque to factory spec.

**11.** Install the delta joint into the spindle using the supplied nut and 21mm. [Torque to 75 ft-lbs]

**12.** Reconnect steering shaft and torque pinch bolt to factory spec. Using a small amount of blue thread locker.

**13.** Reinstall heat shield on passenger side.

**14.** Reinstall fender liner if removed.

**15.** Reinstall wheels and tires, lower to ground and get 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 LIMITED LIFETIME WARRANTY

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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.

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PART #	DESCRIPTION
48700	21-UP FORD BRONCO FRONT VS RR COILOVER KIT

### COMPONENTS INCLUDED

(1) 144930RD 21-UP BRONCO FRONT 0-3.5" 2.5 C/O RR UPKG DRIVER	(1) 2500020 7.50 UNIVERSAL RESI MT PLATE OFFSET CZINC
(1) 144930RP 21-UP BRONCO FRONT 0-3.5" 2.5 C/O RR UPKG PASSENGER	(2) 141007 21-UP BRONCO RESI MOUNT
(1) 250002 D 7.50 UNIVERSAL RESI MT PLATE CZINC	(1) 611019 COILOVER HARDWARE KIT
	(1) 611052 COILOVER LOWER HARDWARE KIT
	(1) 611083 BRONCO SWAY BAR DROP KIT

### HARDWARE INCLUDED

(4) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT CZINC	(4) 611051 #36 1.188-2.750 STAINLESS HOSE CLAMP KIT
611019 COILOVER HARDWARE KIT	
(6) 605101 3/8-16 X 1.000 HHCS GR8 YZINC	(6) 605131 3/8 SPLIT LOCK WASHER GR8 YZINC
611052 COILOVER LOWER HARDWARE KIT	
(4) 605205 7/16-14 X 2.750 HHCS GR8 YZINC	(4) 605231 WASHER 1.00 X .469 X .125 BOXIDE
(4) 605230 7/16 SAE FLAT WASHER GR8 YZINC	
611083 BRONCO SWAY BAR DROP KIT	
(2) 147042 SWAY BAR SPACER	(4) 605749 7/16-14 X .750 HHCS GR8 YZINC
(2) 290025 WASHER 1" X .505" X .375"	(4) 605918 M12 X 1.75" X 30MM BHCS ZINC
(4) 605230 7/16 SAE FLAT WASHER GR8 YZINC	(1) 605968 VIBRATITE BLUE 2ML BULLET

### TOOLS REQUIRED

JACK	6MM HEX KEY
JACK STANDS	8MM SOCKET / WRENCH
TORQUE WRENCH	10MM SOCKET / WRENCH
RATCHET	15MM SOCKET / WRENCH
EXTENSIONS	18MM SOCKET / WRENCH
5/16" SOCKET / WRENCH	21MM SOCKET / WRENCH
9/16" SOCKET / WRENCH	22MM SOCKET / WRENCH
5/8" SOCKET / WRENCH	24MM SOCKET / WRENCH

### TECH NOTES

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.
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 2.6" 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. ESTIMATED INSTALL TIME: 4-5 HOURS.



### 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 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.** Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.

**2.** Disconnect sway bar from both lower control arms using a 6mm and 21mm wrench. Rotate sway bar and links up away from the lower arm. [FIGURE 1]



FIG.1

**3.** Remove the sway bar skid plate to gain access to the sway bar brackets (4 x 15mm bolts). [FIGURE 2]

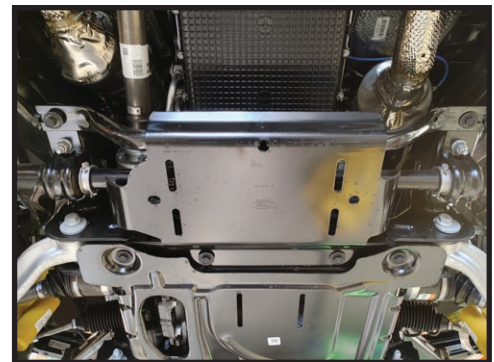
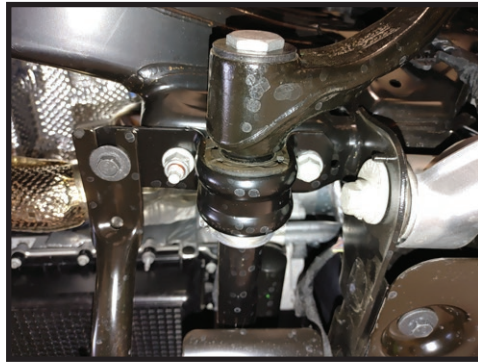


FIG.2

4. Remove one side of the sway bar from the frame to gain access to the lower control arm bolts (18mm). [FIGURE 3]

FIG.3



5. Support the lower control arm and remove the bolts from the frame. Remove the 15mm nuts from the top of the coilover. [FIGURE 4]

FIG.4



6. Remove the 18mm nuts from the bottom of the coilover. [FIGURE 5]

FIG.5



7. Lower the arm down so the coilover can be removed. [FIGURE 6]

FIG.6



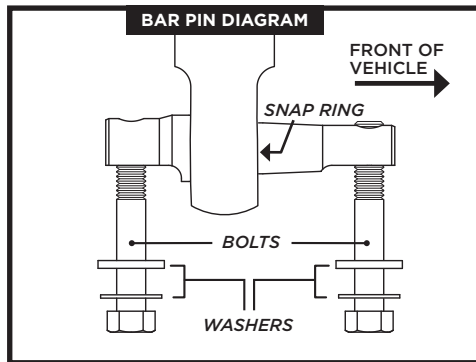
**8.** With the factory coilover removed, install the ICON coilover. Upper mount first using the supplied 3/8-16 x 1.00 GR8 bolts and split lock washers. Torque to 35 ft-lbs using a 9/16. [FIGURE 7]

FIG.7



**9.** Reinstall the lower control arm into the frame pockets using factory hardware (snug bolts only) and connect the lower shock to the control arm using the supplied 7/16 bolts and washers. Torque to 70 ft-lbs. Refer to the photo for proper bolt/washer orientation. [FIGURE 8]

FIG.8



**10.** Install the sway bar relocation brackets now before reinstalling the sway bar.

**11.** Remove the stud from each side using an 8mm. [FIGURE 9]

FIG.9



**12.** Install the ICON sway bar relocation bracket using the supplied 12mm socket head bolts using an 8mm hex key. Apply thread locker to the bolts. Make sure the threaded holes in the relocation bracket are towards the back of the truck. Torque to 55 ft-lbs. [FIGURE 10]

FIG.10



**13.** Using the supplied 7/16 x 3/4 bolts and washer (apply thread locker) install the sway bar back into place. Torque bolts to 50 ft-lbs using a 5/8. [FIGURE 11]

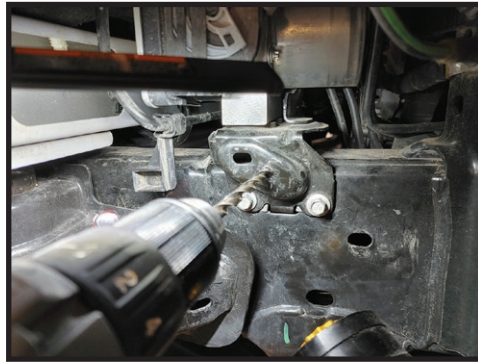


**FIG.11**

**14.** For models with the electronic disconnect sway bar, reinstall the factory skid plate with the supplied washers between the frame cross member and skid plate. The rear will bolt back to the sway bar bracket like factory.

**15.** For remote reservoir coilovers on 4-cylinder models:

- a. Remove the lower rubber fender liner and move the fabric fender liner out of the way to gain access to the ABS control module. Complete removal of fender liner can make install easier. Four 7mm screws and 14 phillips push pins retain the liner.
- b. Drill a 5/16 hole into the ABS bracket as shown. [FIGURE 12]



**FIG.12**

**16.** Install the 250002 bracket as shown using one 3/8" self tapping bolt. [FIGURE 13]



**FIG.13**

**17.** Passenger side install on 4 cylinder models. Remove the lower rubber fender line and move the fabric liner out of the way. Remove the rear 10mm bolt that holds the heater lines. Place the 2500020 bracket in position and reinstall factory bolt, as shown. Use supplied hose clamps to secure reservoir to brackets. [FIGURE 14 & 15]

FIG.14



FIG.15

**18.** Cut and trim the fender liner as needed to show off your new reservoirs.

**19.** On V6 models, remove the rubber fender liner and move the fabric line out of the way. Using a 5/16" drill bit, drill 2 holes and mount the supplied reservoir bracket as shown. Use supplied hose clamps to secure reservoir. Cut and trim the fender liners as needed to show off your new reservoirs. [FIGURE 16 & 17]

FIG.16



FIG.17

**20.** Make sure all bolts and nuts are tight. Install wheels and tires.

**21.** Lower vehicle to the ground and tighten the lower control arm pivot bolts.

**22.** Get 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.

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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PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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PART #	DESCRIPTION
48711	21-UP BRONCO REAR 2.5 VS RR COILOVER KIT HEAVY RATE SPRING

### COMPONENTS INCLUDED

(1) 144932RD 21-UP BRONCO REAR RR C/O 2.5 VS DRV Heavy Rate Spring (1) 144932RP 21-UP BRONCO REAR RR C/O 2.5 VS Pass Heavy Rate Spring	(1) 611051 #36 1.188-2.750 Stainless Hose Clamp Kit (4)
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### HARDWARE INCLUDED

(1) 140001 21-UP BRONCO Stud Plate, Rear Upper (1) 140002 21-UP BRONCO Rear Resi Mount DRV (1) 140003 21-UP BRONCO Rear Resi Mount Pass (2) 144005 21-UP BRONCO Rear Resi Nut Plate (1) 147010 21-UP BRONCO Upper Rear C/O Mount (4) 257172 Heim Spacer COM12 X .500 X 1.250 CZINC	(4) 257194 Heim Spacer COM14 X 20MM X 85MM CZINC (4) 605053 1/4 SAE Flat Washer GR8 YZINC (2) 605202 7/16-14 X 1.250 HHCS GR8 YZINC (2) 605334 1/2-13 X 2.250 12 PT Flanged Cap Screw BLK ZINC (4) 605876 1/4-20 X 1 HHCS GR8 YZINC (4) 605881 M12-1.50 NYLOCK Flange Nut CZINC (1) 605970 Vibratite Anti Seize Individual Use Tube
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### TOOLS REQUIRED

JACK JACK STANDS RATCHET, EXTENSIONS TORQUE WRENCH #2 PHILLIPS SCREWDRIVER FLAT HEAD SCREWDRIVER BODY PANEL CLIP REMOVAL TOOL GRINDER/SANDER (OPTIONAL)	5/16" SOCKET / WRENCH 7/16" SOCKET / WRENCH 1/2 12PT SOCKET / WRENCH 5/8 SOCKET / WRENCH 15MM SOCKET / WRENCH 18MM SOCKET / WRENCH 27MM SOCKET / WRENCH
--	---

### TECH NOTES

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.
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 5.75" 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. RESERVOIR HOSE CLAMPS CAN BE PURCHASED FOR FACTORY TUBE LINKS, ICON TUBE LINKS OR COME STANDARD WITH ICON BILLET LINKS.
4. SPRING OPTION DIAGRAM ON PAGE 5.
5. ESTIMATED INSTALL TIME: 3-5 HOURS.



### 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.**

**2.** Remove fender flare. Turn the 1/4 turn fasteners counter clockwise to release the flare. Then pull on flare and it will pop off the vehicle.

**3.** Remove inner fender liner. There are 10 plastic phillip head screw clips, 3 small phillip screws, 1 (driver side), 2 (passenger side) wing nuts to remove. [FIGURE 1 & 2]

## INSTALLATION

**1.** Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.

FIG.1



FIG.2



4. Support the rear axle. Remove upper shock mount nuts (15mm). [FIGURE 3]

FIG.3



5. Remove lower shock bolt and nut using a 27mm and remove the factory coilover. [FIGURE 4]

FIG.4



6. Install the upper mount and stud plate as shown, the stud plate installs from under the frame mount, and the upper mount installed on top of the frame with the 2 studs/nuts accessible from the wheel well and the 7/16" bolt towards the inside (Driver side shown). Torque the 7/16 bolt to 65 ft-lbs. Torque the 12mm nuts to 65 ft-lbs. [FIGURE 5 & 6]

FIG.5



FIG.6



7. Install the reservoir mount to the frame above the lower link pivot. Use the supplied 1/4" nut plate and 1/4" bolts and washers. Grind any high spots in the factory weld to allow the reservoir mount to sit flush against the frame. [FIGURE 6 & 7]

FIG.6

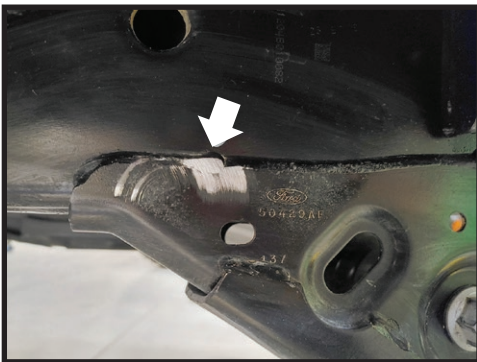


FIG.7



**8.** On the reservoir mount, mark the front hole and drill the frame to 7/32 then use the 1/4" self-tapping bolt to secure the front of the mount to the frame. [FIGURE 8 & 9]

FIG.8



FIG.9



**9.** Install the Icon coilover into the upper mount with the 257172 spacers and 605334 1/2-13 12pt bolt (Apply a small amount of anti-seize to the spacers and bolt). Torque to 90 ft-lbs with a 1/2" 12pt socket. [FIGURE 10]

FIG.10



**10.** Install lower shock eyelet with 257194 spacers into the factory mount and torque the bolt to factory spec (Apply a small amount of anti-seize to the spacers before installing them into the rod end). [FIGURE 11]

FIG.11



**11.** Route the hose along the lower control arm and place on top of the reservoir mount, using the supplied stainless steel hose clamps to loosely secure it. Then secure the hose to the lower link with the clamps provided with the billet links, or the clamps purchased for the tube links. If non ICON or factory links are installed, cable ties are the next option. [FIGURE 12 & 13]

FIG.12



FIG.13

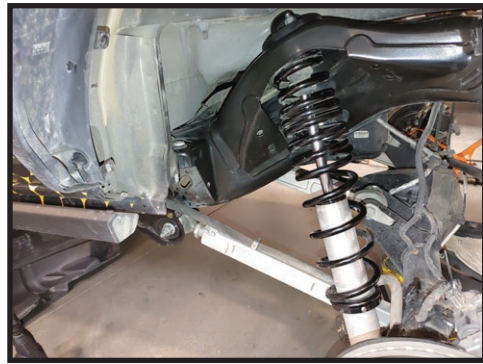


**12.** Secure the reservoir hose clamps with the reservoir in the correct position, as shown. [FIGURE 14 & 15]

FIG.14



FIG.15



**13.** Repeat steps on passenger side.

**14.** Reinstall wheels/tires. Torque lug nuts. Lower vehicle back to the ground.

***VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.  
RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.***

## OPTION 1

1

SPRING INSTALLED  
AT THE  
LOWEST SETTING

IMAGE SHOWN WITH  
OVERLAND SPRING  
INSTALLED WITH NO  
ADDITIONAL WEIGHT



## OPTION 2

2

SPRING SET IN THE  
LOWEST POSITION  
WITH A LEVELED  
STANCE

**150 lbs**  
IN CARGO AREA



## OPTION 3

3

SPRING SET IN THE  
LOWEST POSITION  
WITH A SLIGHTLY  
LOWER REAR

**280 lbs**  
IN CARGO AREA

**520 lbs**  
BACKSEAT



## 2.5 VS SERIES SHOCK & COILOVER TECHNICAL INFORMATION

### MAINTENANCE

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- 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

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### ICON VEHICLE DYNAMICS SHOCK ABSORBER WARRANTY

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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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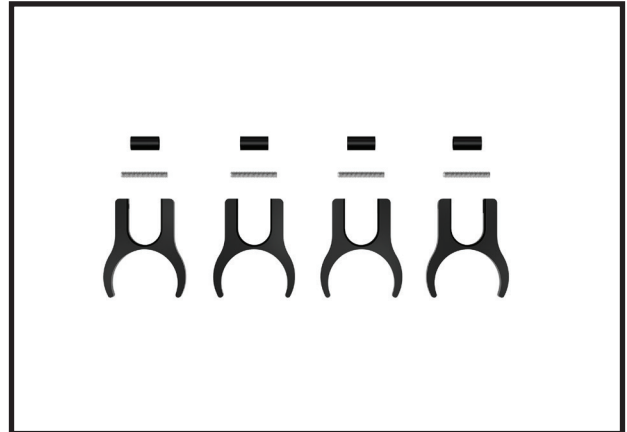
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PART #	DESCRIPTION
611073	21-UP BRONCO HOSE ROUTE KIT REAR LINK 1.75"

COMPONENTS INCLUDED	
(2) 147025 21-UP BRONCO, 1.75" LINK HOSE CLAMP	
HARDWARE INCLUDED	
(4) 605073 10-24 X 1.250 SHSS 18-8 RAW	(1) 605989-03 TUBING, BLACK PVC, 1/4" - 3/4" CUT LENGTH
TOOLS REQUIRED	
JACK JACK STANDS	ADJUSTABLE PLIERS 3/32 HEX KEY
TECH NOTES	
1. CLAMPS CAN BE INSTALLED WHILE LINKS ARE INSTALLED ON VEHICLE.	



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

- For easy access to the rear lower links, lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove rear tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.
- Loosen the jam nut and back it away from the tube enough so the clamp can be slipped over the tube. An adjustable pliers wrapped in a rag or tape can be used to spread the clamp and avoid scratching the link or clamp. [FIGURE 1]

FIG.1

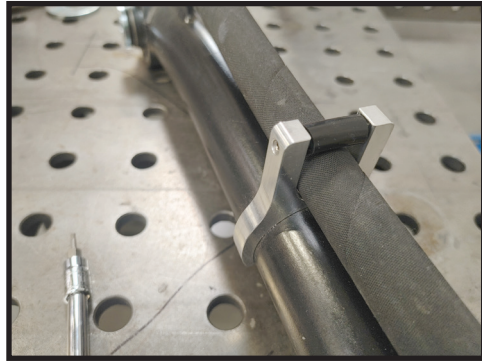


3. Slide the first clamp down the link, so it is approximately 16.75" from the frame pivot. The second clamp should be about 10" from the frame pivot. Both clamps should be oriented with the hose clamp section facing up.
4. With the clamps in the correct position on the link, position the reservoir hose into the clamp and thread the supplied 10-24 x 1.25" set screw into the clamp, position the supplied black PVC tubing over the set screw and tighten. [FIGURE 2 & 3]

FIG.2



FIG.3



5. The reservoir hose should still move freely. Do not try to tighten the set screw down so much that the hose becomes tight, you could break the clamp.
6. Repeat steps on opposite side.
7. Reinstall wheels and tires, torque lug nuts 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**

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