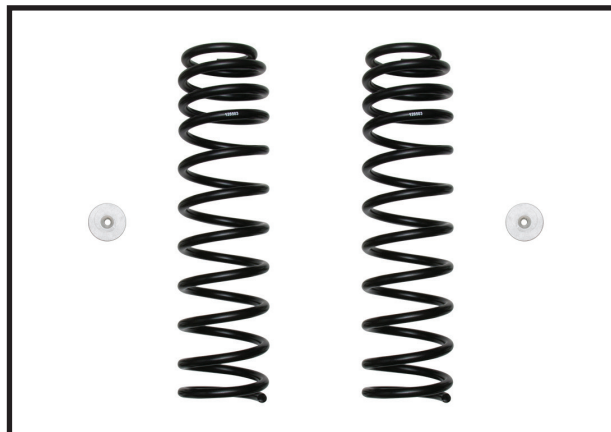


PART #	DESCRIPTION
22025	18-UP JL/20-UP JT 2.5" LIFT FRONT DUAL RATE SPRING KIT

COMPONENTS INCLUDED	
(2) 128503 JL/JT FRONT DUAL RATE SPRING (1) 128005 JL/JT .375" FRONT COIL SHIM	(1) 22025H JL/JT FRONT COIL HARDWARE KIT
HARDWARE INCLUDED	
22025H HARDWARE KIT	
(2) 127200 JL/JT FRONT BUMPSTOP SPACER 1" (2) 605111 3/8-16 X 1.750 FLATHEAD SCREW (2) 605122 3/8-16 C-LOCK NUT	(2) 605133 3/8 FLAT WASHER (2) 605971 BLACK CABLE TIE W/ OVAL TREE
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH 6MM ALLEN WRENCH	5/32" ALLEN WRENCH 9/16" SOCKET / WRENCH 15MM SOCKET / WRENCH 18MM SOCKET / WRENCH
TECH NOTES	
1. THE SUPPLIED COIL SHIM IS USED TO ACCOUNT FOR THE DIFFERENCE IN HEIGHTS FROM SIDE TO SIDE AND CORRECT A PASSENGER SIDE LEAN.	



WARNING!
<p><b>** 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!</b></p> <p><b>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.</b></p> <p><b>** 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.</b></p>

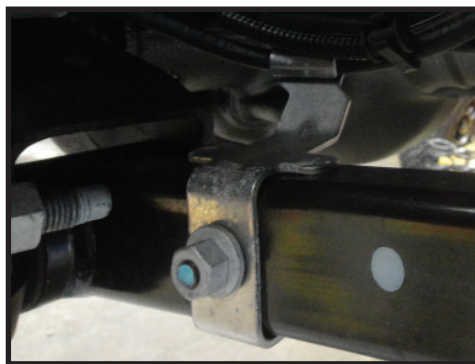
## INSTALLATION

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 sway bar links from the axle using (2) 18mm wrenches. Remove the front sway bar links from the sway bar using a 6mm allen wrench and an 18mm. [FIGURE 1]

FIG.1



FIG.2



3. Remove the nut from the brake line bracket, then slide the bracket off of the stud on the lower link using a 15mm. Slide the brake line in the bracket to gain some extra slack. [FIGURE 2]

**4.** Remove the nut from the front lower shock mount using an 18mm. [FIGURE 3]

FIG.3

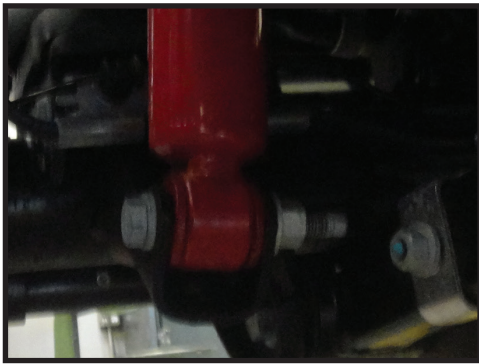


FIG.4

**5.** Support the axle with a jack to remove the tension from the lower shock mount and remove the factory shock bolt. **RUBICON ONLY\*** Disconnect the front locker plug from the differential and remove the clip from the upper link arm.

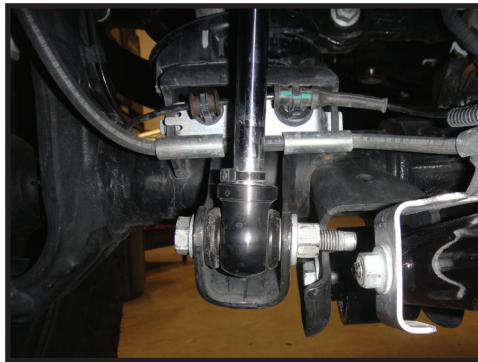
**6.** With a marker, make a line on the coil isolator and coil bucket to indicate isolator clocking. Carefully lower the front axle until the coil springs can be removed. Use caution to not overextend any brake or ABS lines when lowering the axle. [FIGURE 4]

**7.** Remove the front coil springs. Make sure the upper and lower coil isolators are still in place with locating prongs in holes on driver's side. Remove locating pins from passenger side isolator to install supplied shim. Install the supplied (128005) coil shim between the upper isolator and coil bucket on the passenger side. Remove tip from the factory coil isolator so that the shim can be installed.

**8.** Install the (128503) coil springs, taking care to seat the coil properly in the upper and lower isolators as well as align the mark made in step 6 on passenger side. It will be necessary to lower the front axle further to install the new coils. Be careful to not damage any lines when lowering the axle. Verify that the coil springs are properly oriented.

**9.** With the new coil springs installed, lift the axle enough to install the longer shocks using the factory hardware and an 18mm. [Torque to factory spec] [FIGURE 5]

FIG.5



**10.** Slide the brake line in the steel bracket to gain extra slack with the suspension fully extended. Connect the brake line bracket to the front lower link using the factory nut and a 15mm. [Torque to factory spec]

**11.** Slide the bump stop spacer through the coil spring. Make sure that the spacer is centered on the striker pad. Fasten the bump stop spacer to the striker pad using the supplied 3/8" hardware. On the passenger side, the nut is hard to reach. It is helpful to remove the brake line bracket from the back side of the coil spring mount using a 10mm. [Torque to 30 ft-lbs] [FIGURE 6]

FIG.6

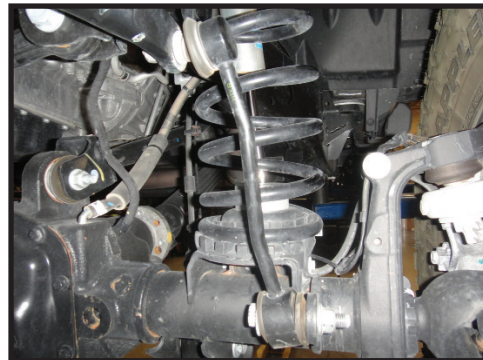


FIG.7

**12.** **\*\*\*WRANGLER JL ONLY\*\*\*** Mount the factory rear sway bar links (to the front axle housing) using factory hardware and a 6mm allen wrench and an 18mm. [Torque to factory spec] [FIGURE 7] **RUBICON ONLY\*** Use the supplied oval tree cable ties to allow extra slack for the front differential locker wiring harness at full suspension extension.

**NOTE: \*\*\*WRANGLER JL ONLY\*\*\*** ICON supplies longer rear sway bar links with the rear coil spring kit (22026).

**13.** Install the wheels and lower the vehicle back to the ground. [Torque lugs 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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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
22061	18-UP JL/20-UP JT FRONT SWAY BAR LINK KIT

COMPONENTS INCLUDED	
(2) 197031 3/4" HEX BAR END LINK 6.25" LONG	
HARDWARE INCLUDED	
(2) 127212 JL/JT SWAY BAR END LINK SPACER (1) 295503 ROD END 1/2-20 RIGHT HAND SHANK AND STUD (2) 295504 ROD END 1/2-20 LEFT HAND SHANK RIGHT HAND STUD (1) 295512 ROD END 1/2-20 RIGHT HAND SHANK	(6) 605330 1/2" FLAT WASHER (3) 605350 1/2-20 C-LOCK NUT (2) 605355 1/2-20 JAM NUT THIN (2) 605356 1/2-20 JAM NUT THIN LEFT HAND
TOOLS REQUIRED	
DRILL 1/2" DRILL BIT TORQUE WRENCH	5/8" SOCKET / WRENCH 3/4" SOCKET / WRENCH 18MM SOCKET / WRENCH
TECH NOTES	
END LINK MAX ALLOWABLE ADJUSTMENT FORM CENTER OF ROD END TO CENTER OF ROD END IS 9.75"	



WARNING!
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## 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.
- Remove the factory sway bar links using an 18mm. [FIGURE 1]

FIG.1

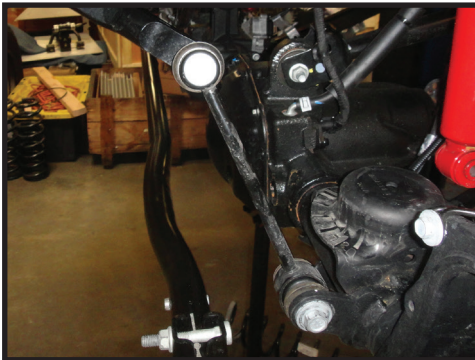


FIG.2



- Using a 1/2" drill bit, carefully drill out the sway bar hole. [FIGURE 2]
- The sway bar links come preassembled by ICON, verify that the studs are in the proper orientation before mounting.



**5.** Mount the sway bar link with the open eyelet on the passenger side using the supplied spacers with the factory bolt and an 18mm socket/wrench. [Torque to factory spec] Mount the stud of the rod end to the sway bar using 1/2" washers on both sides with a 5/8" and 3/4" socket/wrench. [Torque nut to 50 ft-lbs] [FIGURE 3]

FIG.3



FIG.4

**6.** Mount the other sway bar link on driver side using 1/2" washers on both sides with a 5/8" and 3/4" socket/wrench. [Torque nut to 50 ft-lbs] [FIGURE 4]

**7.** Keep rod ends parallel and tighten jam nuts using a 3/4" wrench.

**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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PART #	DESCRIPTION
22062	20-UP JT REAR SWAY BAR RELOCATION KIT

COMPONENTS INCLUDED	
(2) 127210 20-UP JT REAR SWAY BAR RELOCATION BLOCK	
HARDWARE INCLUDED	
(4) 605133 3/8" FLAT WASHER	(4) 605100 3/8-16 X .750 BOLT
TOOLS REQUIRED	
TORQUE WRENCH	9/16" SOCKET / WRENCH 15MM SOCKET / WRENCH
TECH NOTES	
N/A	



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## INSTALLATION

- 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 sway bar from the differential using a 15mm. [FIGURE 1]

FIG.1

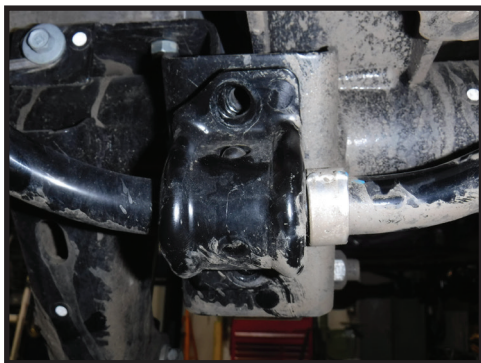


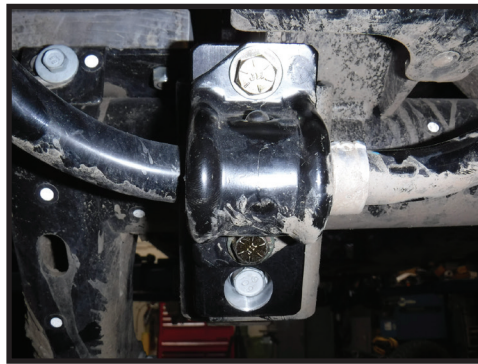
FIG.2



- Mount ICON relocation block using the factory hardware and a 15mm socket/wrench. [Torque to factory spec] [FIGURE 2]

4. Mount the sway bar to the relocation block using the supplied 3/8" hardware and a 9/16". [Torque to 30 ft-lbs] [FIGURE 3]

FIG.3



**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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PART #	DESCRIPTION
22066	20-UP JT 1.5" MULTI-RATE SPRING KIT

COMPONENTS INCLUDED	
(2) 128523 20+ JT REAR 1.5" TRIPLE RATE COIL SPRING	
HARDWARE INCLUDED	
N/A	
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH	10MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH
TECH NOTES	
1. INTENDED FOR USE WITH ICON SHOCKS. 2. REQUIRES: SWAY BAR RELOCATION KIT (PN 22062) OR SWAY BAR LINK KIT (PN 22070).	

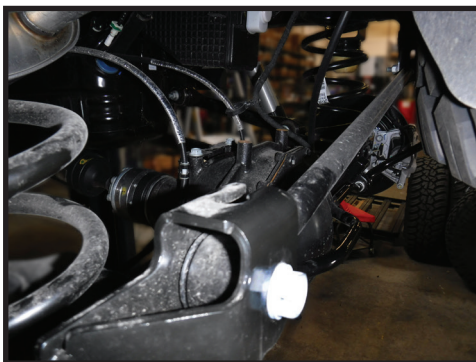


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## INSTALLATION

1. Place the vehicle on a flat surface, verify that the transmission is shifted into PARK, firmly apply the emergency brake, and place wheel chocks on both sides of the tires.
2. Remove the bolt connecting the rear track bar to the frame using a 21mm. [FIGURE 1]

FIG.1



3. 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. Remove the rear wheels.



4. Support the rear differential and disconnect the lower shock bolts using a 21mm. [FIGURE 2]

FIG.2



5. Disconnect the rear sway bar from the frame using an 18mm. [FIGURE 3]

FIG.3



6. Disconnect the brake line bracket from the side of the frame using a 10mm. [FIGURE 4 & 5]

FIG.4



FIG.5



7. Disconnect the ABS line from the wire retainer on the differential.

8. Carefully lower the rear differential enough to remove the rear coils. [FIGURE 6 & 7]

FIG.6



FIG.7



**9.** Install the multi-rate coil spring. Ensure the upper coil isolator is located properly on the coil and the locator nipple is in the locating hole in the frame. [FIGURE 8 & 9]

FIG.8



FIG.9



**10.** Lift the differential enough to connect the shock. Connect the shocks using the factory bolt and a 21mm. [Torque to factory spec] [FIGURE 10 & 11]

FIG.10



FIG.11



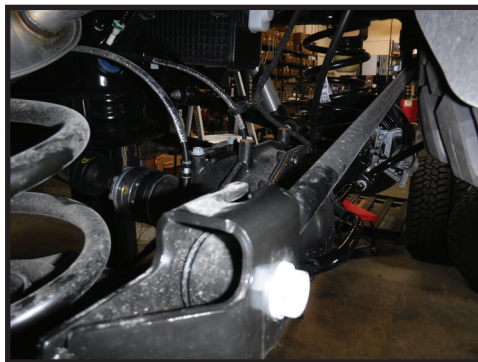
**11.** Connect the ABS wire to the retainer on the differential.

**12.** Connect the brake line bracket to the frame using a 10mm and the factory bolt. [Torque to factory spec]

**13.** Mount the wheels and lower the vehicle to the ground. [Torque lugs to factory spec]

**14.** With the vehicle on the ground, connect the rear track bar using factory hardware and a 21mm. [Torque to factory spec] [FIGURE 12]

FIG.12



**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
26523	18-UP JL/20-UP JT 2.0 ALUMINUM SERIES FRONT SHOCK

COMPONENTS INCLUDED	
(1) 124935 18-UP JL/20-UP JT 2.5" LIFT 2.0 FRONT SHOCK	(2) 209208 STEPPED SHOCK SLEEVE .625 X .480 X 2.750
HARDWARE INCLUDED	
N/A	
TOOLS REQUIRED	
TORQUE WRENCH	18MM SOCKET / WRENCH
TECH NOTES	
<p>1. A MINIMUM OF A 1" BUMP STOP SPACER IS REQUIRED (SUPPLIED WITH ICON COIL SPRING KIT PN: 22025).</p> <p>2. 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.</p>	



WARNING!
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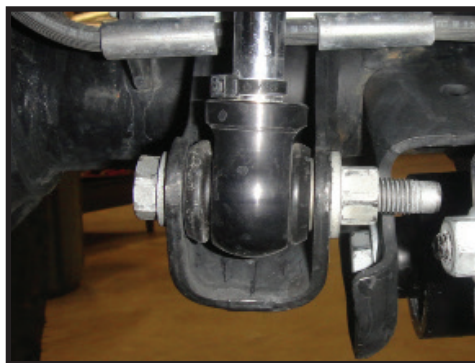
## INSTALLATION

1. Place the vehicle on a smooth, level surface. Ensure that the vehicle is in PARK, engage the emergency brake, and chock the tires before performing any work to the vehicle. ICON will not be held liable for any injuries or failure caused by improper installation.
2. Remove the factory shock using an 18mm.

FIG.1



FIG.2



4. Using factory hardware and an 18mm, install the ICON front shock. [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.**



## 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/>



**ICON VEHICLE DYNAMICS®**  
PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON Fax: 951.689.1016  
[www.iconvehicledynamics.com](http://www.iconvehicledynamics.com)



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PART #	DESCRIPTION
26527	20-UP JT 2.0 ALUMINUM SERIES REAR SHOCK

COMPONENTS INCLUDED	
(1) 124980 20-UP JT 2.5" LIFT 2.0 REAR SHOCK	
HARDWARE INCLUDED	
N/A	
TOOLS REQUIRED	
TORQUE WRENCH	21MM SOCKET / WRENCH
TECH NOTES	
<p>1. INTENDED FOR USE WITH ICON REAR COIL SPACER KIT (PN: 22065)</p> <p>2. 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.</p>	



WARNING!
<p><b>** 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!</b></p> <p><b>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.</b></p> <p><b>** 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.</b></p>

## INSTALLATION

1. Place the vehicle on a smooth, level surface. Ensure that the vehicle is in PARK, engage the emergency brake, and chock the tires before performing any work to the vehicle. ICON will not be held liable for any injuries or failure caused by improper installation.
2. Remove the factory shock using a 21mm.

FIG.1



FIG.2



4. Using factory hardware and a 21mm, install the ICON rear shock with the shaft facing downward. [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.**

## 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

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