

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

| PART # | DESCRIPTION                                 |
|--------|---|
| 71505  | 07-UP GM 1500 0-2.5" 2.5 VS IR COILOVER KIT |

| COMPONENTS INCLUDED  |   |
|--|---|
| (2) 174952 07-UP GM 1500 2.5 VS IR CO  | (1) 611019 COILOVER HARDWARE KIT (PAIR)                               |
| HARDWARE INCLUDED  |   |
| 611019 HARDWARE KIT  |   |
| (6) 605101 3/8-16 X 1.000 BOLT   | (6) 605131 3/8 SPLIT LOCK WASHER                                      |
| TOOLS REQUIRED   |   |
| JACK<br>JACK STANDS<br>TORQUE WRENCH   | 9/16" SOCKET / WRENCH<br>15MM SOCKET / WRENCH<br>18MM SOCKET / WRENCH |
| TECH NOTES   |   |
| <p>1. ICON RECOMMENDS USING UPPER CONTROL ARM KIT (78600). IF NOT USING UPPER CONTROL ARM KIT (78600), TRIMMING OF THE FACTORY DROOP STOP IS REQUIRED.</p> <p>2. YOUR ICON COILOVER ASSEMBLIES COME SHIPPED AT ICON'S RECOMMENDED RIDE HEIGHT. REDUCING DROOP TRAVEL WILL REDUCE RIDE QUALITY. DO NOT PRELOAD THE COIL BEYOND 1.25" 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.</p> <p>3. YOUR ICON COILOVER 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.</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 INSTALLTION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.</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.
- Support the lower control arm with a jack, then remove the (3) nuts holding the factory coilover to the coil bucket using an 18mm socket/wrench. [FIGURE 1]

FIG.1



FIG.2



- Remove the (2) bolts from the lower bar pin using a 15mm socket/wrench. [FIGURE 2]
- Slowly lower the jack, then apply some downward force on the spindle to allow room for removal of the factory coilover.
- Apply downward force to the spindle and install the ICON coilover assembly.
- Orient the hex side of the bar pin towards the rear of the truck.

7. Use a jack to help align the coilover into the proper mounting position. Using the supplied (605101) (605131) hardware and a 9/16" socket/wrench, connect the upper mount to the coil bucket. [Torque to 30 ft-lbs] [FIGURE 3]

FIG.3



FIG.4

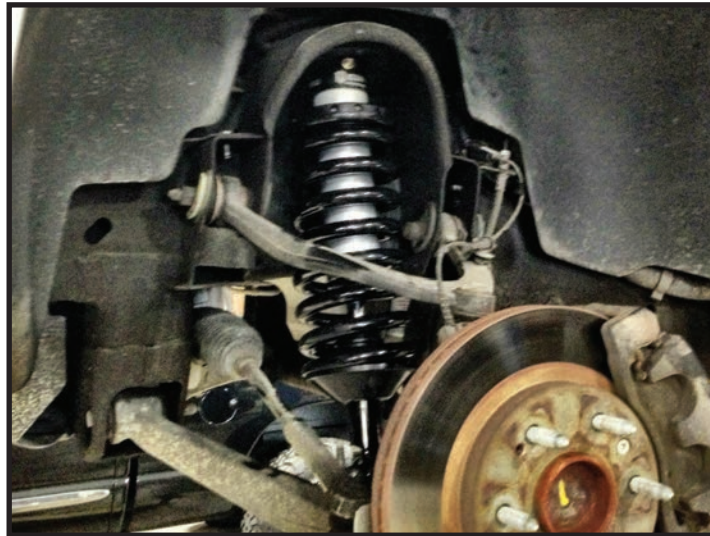
8. Use a 15mm socket/wrench to connect the factory bolts and bar pin to the lower control arm. [Torque to factory spec] [FIGURE 4]

9. Install the wheels and lower the truck to the ground. [Torque to factory spec]

10. 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.

ICON Vehicle Dynamics' obligation under this warranty is limited to the repair or replacement, at ICON Vehicle Dynamics' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered.

ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty.

This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.

To send a shock in for warranty please visit our website <http://www.iconvehicledynamics.com/tech-support/shock-service/>

## ICON VEHICLE DYNAMICS

PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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| PART # | DESCRIPTION                         |
|--------|-------------------------------------|
| 77700P | 07-UP GM 1500 0-1.5" REAR 2.5 VS PB |

| COMPONENTS INCLUDED  |                                       |
|--|---------------------------------------|
| (2) 174946 07+ GM 1500 0-1" REAR 2.5 VS PB   |                                       |
| HARDWARE INCLUDED  |                                       |
| N/A  |                                       |
| TOOLS REQUIRED   |                                       |
| JACK<br>JACK STANDS<br>DREMEL OR SMALL SANDER  | TORQUE WRENCH<br>21MM SOCKET / WRENCH |
| TECH NOTES   |                                       |
| <p>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.</p> |                                       |



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**\*\* 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 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 rear wheels.
- Remove the OEM rear shocks using a 21mm. [FIGURE 1]

FIG.1



**3.** Slightly sand the upper shock mount for adequate top cap clearance. Install the upper bolt first with the wide spacer to the outside spacing the shock away from the frame for added clearance using a 21mm [Torque to factory spec] [FIGURE 2]

FIG.2



**4.** Install the lower bolt using a 21mm. Use the offset spacers to space the shock away from the frame. It helps to have the suspension fully extended for this step. [Torque to factory spec] [FIGURE 3]

FIG.3



**5.** Install the wheels and lower vehicle to the ground. [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.***

## 2.5 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.

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| PART #  | DESCRIPTION                                    |
|---------|--|
| 78600DJ | 07-16 GM 1500 TUBULAR UCA DJ KIT (SMALL TAPER) |

| COMPONENTS INCLUDED   |  |
|---|--|
| (1) 174600 07+ GM 1500 UCA (DRVR)   | (1) 174601 07+ GM 1500 UCA (PASS)  |
| HARDWARE INCLUDED   |  |
| (2) 177200BJ DELTA JOINT<br>(8) 150025 WASHER 2.125 X .565 X .188<br>(4) 179107 SLEEVE 1.000 X .563 X 1.766<br>(4) 605903 1/4-28 X 90 DEG STEEL ZERK FITTING  | (8) 297034 HAT BUSHING 1.625 X 1.000 X .850<br>(4) 605053 1/4 FLAT WASHER<br>(2) 605800 M6-1.0 FLANGE NUT<br>(2) 605862 M6-1.0 X 25MM SHSS |
| TOOLS REQUIRED  |  |
| JACK<br>JACK STANDS<br>TORQUE WRENCH  | 18MM SOCKET / WRENCH<br>21MM SOCKET / WRENCH   |
| TECH NOTES  |  |
| <p>1. ICON RECOMMENDS OPTIONAL BILLET DUST COVER SET (191011) TO PREVENT DEBRIS FROM PACKING UP AROUND THE ZERK FITTING.</p> <p>2. 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>3. IF YOUR VEHICLE IS EQUIPPED WITH A LARGE SPINDLE TAPER BORE, STOP AND RETURN KIT FOR (78601/78601DJ).</p> <p>4. 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>5. ONLY COMPATIBLE WITH OE SPINDLES. DO NOT INSTALL IN COMBINATION WITH ANY AFTERMARKET SPINDLES.</p> |  |

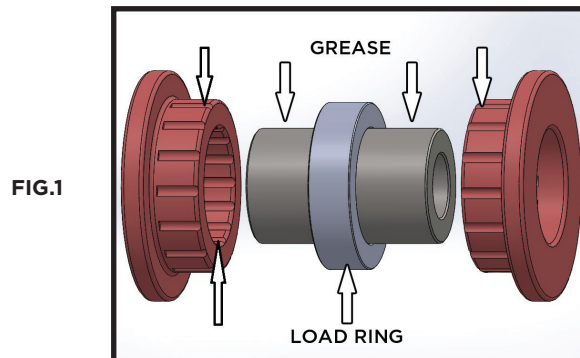


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## INSTALLATION

- 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.
- Using a jack, slightly lift the lower control arm to prevent the suspension from being at full droop.
- Turning the steering wheel to the driver side will allow easy access to the nut on the upper control arm ball joint that connects the spindle and upper control arm. Remove the safety cotter pin and loosen the ball joint nut using an 18mm socket/wrench.
- Support the spindle so that it does not overextend the CV joints when detached.
- With the upper control arm disconnected from the spindle, loosen the upper control arm from its mounts on the frame using a 21mm wrench/socket. Remove OEM upper control arm.
- Before installing your new upper control arms, care must be taken to grease the bushings (liberally) prior to installing assembly. Failure to grease properly will cause premature bushing wear and increased noise. [FIGURE 1]

NOTE: PHOTO USED FOR ILLUSTRATION PURPOSES ONLY, NOT ALL BUSHINGS WILL INCLUDE A LOAD RING.



7. Each arm is clearly labeled which side and it should be installed on.
8. With the control arm completely assembled, slide the arm into the upper mounts (with large washers on each side of the bushings) and insert the OEM hardware loosely.
9. 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.
10. Rotate the upper control arm downward and install the stem through the spindle taper. Install the supplied flanged nut on the taper pin. [Torque to 60 ft-lbs]
11. Tighten the upper control arm mounts on the chassis using a 21mm socket/wrench. [Torque to factory spec]
12. Install wheels and lower vehicle to the ground. [Torque lugs to factory spec]
13. Repeat steps on opposite side.
14. 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 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.

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