

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

PART #	DESCRIPTION
214200	14-UP RAM 2500 FRONT 2.5" DUAL RATE SPRING KIT

COMPONENTS INCLUDED	
(1) 218210P 14+ RAM HD FRONT 2.5" DUAL RATE COIL (PASS) (1) 218210D 14+ RAM HD FRONT 2.5" DUAL RATE COIL (DRVR)	(1) 214200H HARDWARE KIT (1) 611068 14-UP RAM HD E-BRAKE RELOCATION KIT
HARDWARE INCLUDED	
214200H HARDWARE KIT	
(2) 217120 14+ RAM 2500 REAR SWAY BAR DROP (1) 214108 14+ RAM HD BRAKE BRKT DRVR (1) 214109 14+ RAM HD BRAKE BRKT PASS	(2) 605823 M12-1.75 NYLOCK NUT (2) 605835 M12-1.75 X 70MM BHCS (2) 605230 7/16 FLAT WASHER
611068 E-BRAKE RELOCATION KIT	
(1) 210002 14-UP RAM HD E-BRAKE BRACKET (1) 605101 3/8-16 X 1.000 HHCS (1) 605121 3/8-16 NYLOCK NUT	(2) 605133 3/8 FLAT WASHER (1) 605239 M10-1.5 X 20MM BHCS
TOOLS REQUIRED	
JACK JACK STANDS 9/16" SOCKET / WRENCH 10MM SOCKET / WRENCH 13MM SOCKET / WRENCH 18MM SOCKET / WRENCH 19MM SOCKET / WRENCH 22MM SOCKET / WRENCH	27MM SOCKET / WRENCH 36MM WRENCH 42MM WRENCH 6MM ALLEN WRENCH 8MM ALLEN WRENCH PLIERS TORQUE WRENCH
TECH NOTES	
1. FAILURE TO INSTALL BRAKE LINE RELOCATION BRACKETS WITH AFTERMARKET SHOCKS WILL CAUSE THE SHOCK BODY TO CRASH INTO THE BRAKE LINE CAUSING BRAKE FAILURE.	
2. THIS SPRING KIT INCLUDES A SWAY BAR DROP BRACKET KIT AND EMERGENCY BRAKE CABLE RELOCATION KIT. THESE ITEMS MUST BE USED TO ALLOW FOR THE INSTALLATION OF ICON'S LONGER REAR SHOCK ABSORBERS.	



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 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.

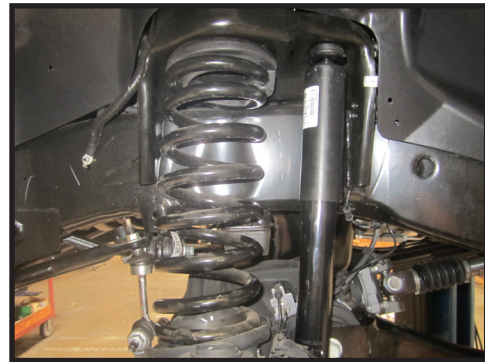
INSTALLATION

- Using a properly rated jack, raise 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 wheels/tires with a 22mm (stock lug nut size).
 - Support the front axle with a jack and remove the track bar bolt from the frame with a 27mm
- NOTE:** Failure to remove the track bar bolt will slow down the process and make the install much more difficult.
- Remove the front shocks using a 21mm for the lower and 19mm for the upper. [FIGURE 1 & FIGURE 2]

FIG.1



FIG.2



4. Remove the sway bar links from the sway bar using a 10mm and an 18mm. [FIGURE 3]

FIG.3

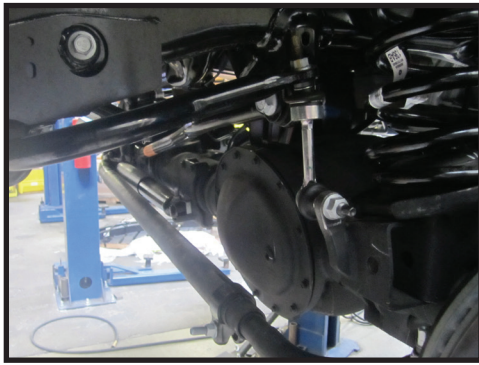


FIG.4

5. Slowly lower the axle with the support jack until both driver and passenger springs become free. Remove the factory coil springs, leave the factory rubber isolators installed and located with the locating nipple in the upper coil bucket. [FIGURE 4]

6. Remove the factory brake line tabs mounted to the radius arm with a 13mm. Slide the pressure clip off of the back of the brake line and bracket using pliers. Only grab from the tang of the clip. Pull the ABS line off of the top of the bracket. Replace with the supplied bracket on the driver side (PN: 214108) and on the passenger side (PN: 214109). Do not over-tighten the bolt. Push the ABS line isolator through the top of the bracket and remount the brake line clip. [FIGURE 5]

NOTE: Failure to use this relocation bracket will cause the shock body to crash into the brake line causing brake failure.

FIG.5

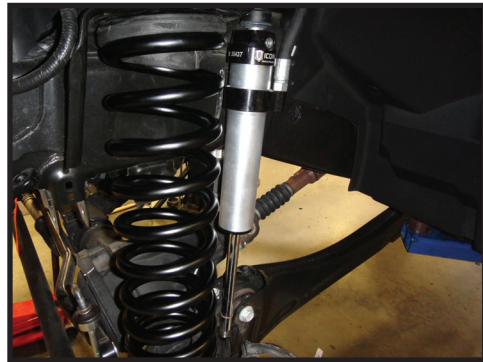


FIG.6

7. Lower the axle enough that the ICON coil springs (PN: 218210) can be installed with the progressive windings down towards the axle. [FIGURE 6]

NOTE: Installing the progressive coil windings at the upper coil bucket instead of at the axle side will not allow the factory rubber isolator to seat properly.

8. Raise the jack to preload the springs slightly and verify proper engagement of the top and bottom coil seats.

9. Mount the shocks using a 19mm for the upper and 21mm for the lower. Using the support jack, line up the lower mount after the upper is loosely mounted. Refer to shock installation instructions for more detailed instruction. [Torque to factory spec]

NOTE: Use the handle of a hammer or large screwdriver to pry between the plastic fender liner and the coil bucket to increase access to the upper stem top hardware.

10. Reinstall the factory track bar bolt with a 27mm. [Torque to factory spec]

11. Reconnect the sway bar links to the sway bar using a 10mm and an 18mm. [Torque to factory spec]

12. Remove the factory emergency brake bracket from the top of the rear differential using a 14mm. Mount the supplied emergency brake cable relocation bracket to the differential using the factory bolt and the supplied (605839) bolt. Tighten using a 14mm and 6mm allen wrench. [FIGURE 7]

FIG.7



- 13.** Mount the factory emergency brake cable bracket to the ICON relocation bracket using the supplied 3/8" hardware, tighten using a 9/16". [Torque to 35 ft-lbs]
- 14.** Install the wheels and set the vehicle on the ground. [Torque the lugs to factory spec]
- 15.** Center the steering wheel by loosening the jam nuts on the drag link with 36mm and 42mm and turn until the wheel is straight. Once the wheel is centered, tighten jam nuts. [Torque to factory spec]
- 16.** Supplied in this kit are rear billet sway bar drop brackets (PN: 217120) to allow longer than stock rear shocks. Remove the factory swaybar link from the chassis and mount the billet drop using the factory nut and bolt to the chassis. Use the supplied 12mm hardware to attach the link to the billet drop with a 8mm allen and 19mm socket/wrench. [Torque to 50 ft-lbs] [FIGURE 8]

FIG.8



NOTE: Failure to use these brackets with ICON rear shocks cause the swaybar links to overextend and will cause permanent damage. These brackets are only sold with the spring kit and not available separately and can be used on a vehicle with stock rear shocks. It is ICON's recommendation if you plan to purchase longer than stock rear shocks in the future to install them now.

- 17.** Reinstall the wheels and lower the vehicle 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

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.

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PART #	DESCRIPTION
214204	2014-UP RAM HD REAR ADJUSTABLE TRACK BAR

COMPONENTS INCLUDED	
(1) 217121 14+ RAM 2500 REAR TRACK BAR	
HARDWARE INCLUDED	
(2) 157430 HEIM SPACER NARROW (2) 217115 HEIM SPACER WIDE (1) 295510 JM161T, 1-14 RH ROD END	(1) 295513 JM16-1T, 1-14 LH ROD END (1) 605920 1-14 JAM NUT THIN GR5 CZINC (1) 605921 1-14 LH JAM NUT THIN GR5 CZINC
TOOLS REQUIRED	
24MM SOCKET / WRENCH 1-1/4" OPEN END WRENCH	1-1/2" OPEN END WRENCH TORQUE WRENCH
TECH NOTES	
<p>1. TRACK BAR IS DESIGNED TO BE ADJUSTED ON THE VEHICLE WITH LEFT AND RIGHT HAND THREADS AT EACH END, THE WITNESS MARK AT THE END OF THE BAR INDICATES LEFT HAND THREAD. ADJUSTING IT OFF THE VEHICLE BY TURNING ONLY ONE ROD END WILL LEAD TO INCORRECT THREAD ENGAGEMENT AND FAILURE. ALWAYS ADJUST EQUALLY.</p> <p>2. SOLID MOUNTED ENDS INCREASE VEHICLE RESPONSE AND VEHICLE FEEDBACK BUT CAN GENERATE INCREASED ROAD NOISE.</p> <p>3. TRACK BAR SHOULD BE ADJUSTED ROUGHLY 1/16" LONGER FOR EACH INCH OF LIFT ASSUMING FACTORY TRACK BAR MOUNTING LOCATION. FINAL NUMBER DETERMINED BY PROFESSIONAL ALIGNMENT.</p>	



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** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.

INSTALLATION

1. With the vehicle in park and on a level surface remove the factory rear track bar from the frame and axle using a 24mm. (FIGURE 1)

FIG.1



2. The ICON track bar comes pre-assembled loosely from ICON with the parts listed above. The factory track bar length from center to center is 35.83".

3. Lay the ICON track bar assembly over the stock track bar and adjust each end equally until the eye to eye dimensions are close to factory.

4. Install the rod end side into the axle mounting pocket using the spacers (Part #157430, Part #217115) and the factory hardware. The wider spacer goes towards the front of the vehicle to space the trackbar away from the differential. Use the factory bolt and 24mm to tighten. [Torque to factory spec.] (FIGURE 2)

FIG.2



5. Install the rod end side into the frame mounting pocket using the spacers (Part #157430, Part #217115) and the factory hardware. The wider spacer goes towards the front of the vehicle to space the trackbar away from the diff. Use the factory bolt and a 24mm to tighten. [Torque to factory spec.] (FIGURE 2)
6. Verify that the axle is centered under the truck. Adjust as needed using a 1-1/4" wrench on the machined wrench flats. Verify both rod ends are clocked parallel to each other and torque the jam nuts using a 1-1/2" wrench. [Torque to 200ft-lbs]
7. 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

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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
214206	14-UP RAM 2500 .5" REAR PERFORMANCE SPRING KIT

COMPONENTS INCLUDED	
(2) 218216 14+ RAM HD REAR .5" PERFORMANCE COIL	
HARDWARE INCLUDED	
N/A	
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH 1 7/16" SOCKET / WRENCH	8MM SOCKET / WRENCH 16MM SOCKET / WRENCH 17MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH
TECH NOTES	
<p>1. ICON HAS A SPECIFIC VALVE CODE AND SHOCK LENGTH FOR USE WITH THE PERFORMANCE SPRING KITS. IF YOU ARE UPGRADING FROM THE STOCK SPRING TO THE ICON PERFORMANCE SPRING, YOUR EXISTING ICON SHOCKS CAN BE REVALVED AND LENGTHS CAN BE ALTERED TO TAKE ADVANTAGE OF THE ADDITIONAL WHEEL TRAVEL.</p> <p>2. THIS KIT REQUIRES ICON SWAY BAR DROP BRACKETS INCLUDED IN (214200) SPRING KIT. USE IF SHOCKS EXCEED 25.00" AT FULL EXTENSION.</p>	



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INSTALLATION

1. Disconnect the rear track bar from the differential using a 21mm socket/wrench.
2. 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.
3. Disconnect the rear sway bar links from the chassis. Remove using an 8mm and 18mm socket/wrench.
4. Using a jack, lift the rear axle to relieve tension from the rear suspension.
5. Remove the rear shocks using an 18mm and 21mm socket/wrench.
6. Lower the jack slowly until the coils become loose then remove the coils and upper coil isolators. [FIGURE 1]

FIG.1



7. Set the new coils (218216) on the lower coil seats. Set the upper coil spacer on the top of the coil and then position the coil on the lower coil seat.
8. Lift the axle enough to allow for alignment of the rear shock mounts. Check to make sure the upper coil seat is positioned correctly in the coil bucket.

9. Refer to appropriate ICON rear shock installation instructions. [FIGURE 2]

FIG.2



10. Reinstall the wheels and lower vehicle to the ground. [Torque to factory spec]

ON THE GROUND:

11. Install the rear track bar using the factory hardware and a 21mm socket/wrench. Make sure both rod ends have an equal amount of thread engagement, and adjust the length until the bolts can be installed. [Torque to factory spec]

12. Center the rear axle by adjusting the rear track bar. Once the differential is centered, check to make sure the rod ends are vertical, then tighten the jam nuts using a 1 7/16" socket/wrench. [Torque to 300 ft-lbs]

13. Check the torque on all hardware. Drive the truck 1-2 miles and re-torque all nuts, bolts and lugs.

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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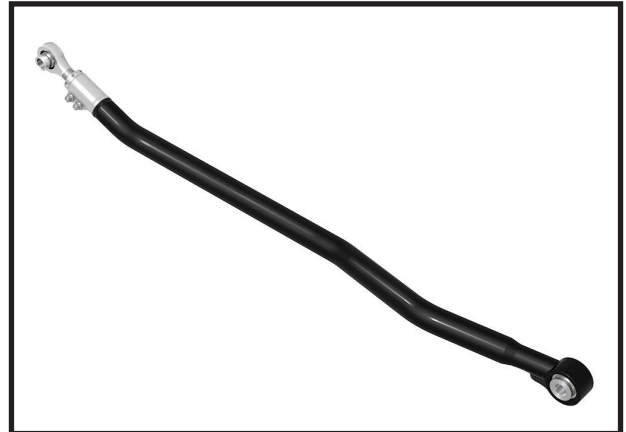
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PART #	DESCRIPTION
214214	19-UP RAM 2500 FRONT ADJUSTABLE TRACK BAR KIT

COMPONENTS INCLUDED	
(1) 214421 19+ RAM HD FRONT ADJ TRACK BAR	
HARDWARE INCLUDED	
(2) 217207 HEIM SPACER COM16 X 18MM X 1.600 (1) 217208 HEIM SPACER JMX14 X 18MM X 1.350 (1) 217218 HEIM SPACER JMX14 X 18MM X 1.850 (1) 217520 L-R ADJ SLEEVE 1 1/8-12L / 7/8-14 (1) 295501 COM16T BEARING F1 FIT (1) 295529 JMX14T-772 SP 7/8-14, 4.25 OAL, 2.75 THD	(2) 605145 3/8-16 X 1.000 12PT (1) 605330 1/2 WASHER (1) 605823 M12-1.75 LOCK NUT (1) 605835 M12X1.75 X 70 BUTTON HEAD (2) 605839 M10-1.5 X 20MM BHCS
TOOLS REQUIRED	
TORQUE WRENCH 6MM ALLEN WRENCH 8MM ALLEN WRENCH 27MM SOCKET / WRENCH	36MM SOCKET / WRENCH 42MM WRENCH 3/8" 12 POINT SOCKET / WRENCH 3/4" SOCKET / WRENCH
TECH NOTES	
<p>1. TRACK BAR IS DESIGNED TO BE ADJUSTED ON THE VEHICLE VIA THE THREADED ADJUSTER HOLES. ADJUSTING IT OFF THE VEHICLE BY TURNING ONLY THE ROD END OR ONLY THE ADJUSTER CAN LEAD TO INCORRECT THREAD ENGAGEMENT AND FAILURE. ALWAYS ADJUST USING THE ADJUSTER WITH THE ROD END FIXED. MAXIMUM ADJUSTED LENGTH IS 39.40"</p> <p>2. SOLID MOUNTED ENDS INCREASE STEERING RESPONSE AND IMPROVE VEHICLE FEEDBACK BUT CAN GENERATE INCREASED ROAD NOISE.</p> <p>3. TRACK BAR SHOULD BE ADJUSTED ROUGHLY 1/16" LONGER FOR EACH INCH OF LIFT ASSUMING FACTORY TRACK BAR MOUNTING LOCATION. FINAL NUMBER DETERMINED BY PROFESSIONAL ALIGNMENT.</p> <p>4. ICON DOES NOT RECOMMEND INSTALLING THIS BAR ON NON ICON SUSPENSION SYSTEMS. OTHER MANUFACTURER'S LIFT KITS ABOVE 2.5" LIFT MAY REQUIRE RADIUS ARM DROP BRACKETS OR A TRACK BAR DROP BRACKET. USING ANOTHER MANUFACTURER'S LIFT KIT MAY BIND THE TRACK BAR OR REQUIRE ADJUSTMENTS BEYOND THE SPECIFIED LIMITS.</p> <p>5. OUT OF SPEC CASTER CAN CAUSE RUBBING AND DAMAGE TO VEHICLE COMPONENTS.</p> <p>6. DO NOT EXCEED 2.375" OF ADJUSTMENT FROM THE CENTER OF THE ROD END TO THE EDGE OF THE TRACK BAR PINCH HOUSING. FAILURE CAUSED BY EXCESSIVE ADJUSTMENT WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY. REFER TO TECH NOTE PHOTO #6.</p>	



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INSTALLATION

1. With the vehicle in park and on a level surface remove the factory track bar from the frame and axle using a 27mm.
2. If installing this on an application with increased droop over stock, the passenger side coil seat must be sanded where the adjuster will contact it. ICON recommends cycling the suspension to full droop with shocks installed and sanding until there is no interference. [FIGURE 1]

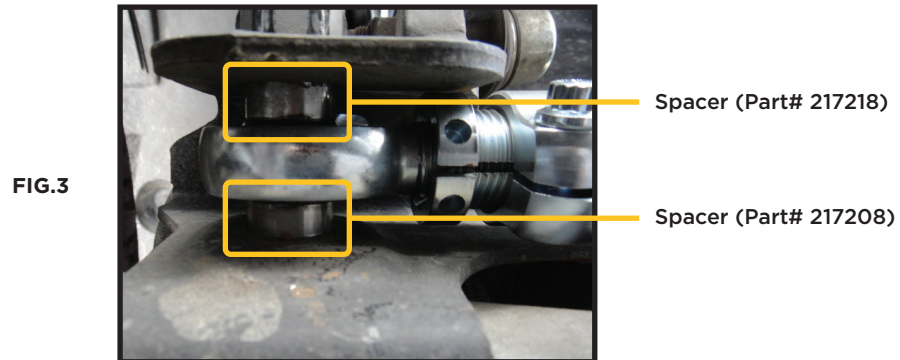


3. If installing on a vehicle that requires the track bar to be at minimum length, sanding for pinch bolt clearance may be required. [FIGURE 2]
4. The ICON track bar comes preassembled from ICON with the parts listed above. The factory track bar length removed in Step 1 from center to center is 38.84".
5. Lay the ICON track bar assembly over the stock track bar and turn the adjuster while holding the rod end fixed until the eye to eye dimensions are close to factory.

6. Install the rod end side into the axle mounting pocket using the 2 spacers (217208, 217218) and the factory hardware (the spacers push the track bar rearward in the frame pocket). Using a 27mm, thread the bolt into the factory nut tab. [Torque to factory spec.]

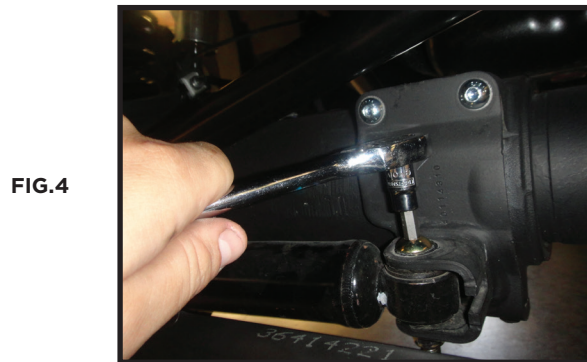
7. Install the uniball side in the frame mounting tabs using the 2 spacers (Part #217207) and factory hardware. [Torque to factory spec.]

8. Verify axle is centered/adjust as needed. Once aligned, apply BLUE thread locker to the pinch bolts in the track bar housing. Tighten the pinch bolts in an opposing pattern at least 3 times. [Torque to 45 ft-lbs] [FIGURE 3]



9. Center the steering wheel if needed by adjusting the drag link adjuster with a 36mm and 42mm. [Torque to factory spec.]

10. If you do not have a bump stop spacer that limits up-travel, replacing the factory stabilizer bolt with the supplied 12mm button head screw is required to keep the track bar from hitting it at full compression. If the factory bump stops failed the track bar can come into contact with the factory bolt. The washer is for the bottom side with the lock nut. [Torque to 50 ft-lbs] [FIGURE 4]



11. If you have low caster, ICON recommends replacing the (2) axle bolts with the supplied (605839) button head bolts for added clearance using a 6mm allen wrench. Vehicles with adequate caster do not have clearance issues. [FIGURE 5 & 6]

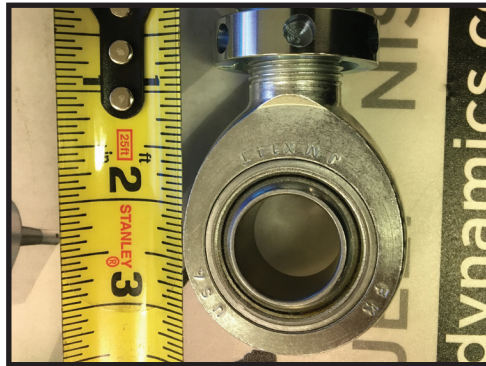


12. Have the vehicle professionally aligned.

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

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[TECH NOTE #6]



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PART #	DESCRIPTION
217705CP	14-UP RAM 2500 .5" PERFORMANCE REAR 2.5 VS PB CDCV PAIR

COMPONENTS INCLUDED	
(2) 214949C 14+ RAM HD .5" PERFORMANCE REAR 2.5 PB CDCV	(1) 214111 14+ RAM HD REAR E BRAKE TAB (2) 611006 9/16 HD STEM BUSHING KIT
HARDWARE INCLUDED	
611006 HARDWARE KIT	
(2) 255200 STEM BUSHING 9/16 ID (2) 254200 9/16 STEM WASHER	(1) 605809 M12-1.25 JAM NUT THIN (1) 605810 M12-1.25 NUT 19MM W X 10MM H
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH	13MM SOCKET / WRENCH 19MM SOCKET / WRENCH 21MM SOCKET / WRENCH
TECH NOTES	
<p>1. THESE REAR SHOCKS REQUIRE THE USE OF ICON'S EMERGENCY BRAKE CABLE RELOCATION KIT (PN: 611068). THIS KIT IS INCLUDED IN ICON'S FRONT COIL SPRING KITS (PN: 214200 & PN: 214201) BUT CAN BE PURCHASED SEPARATELY AS WELL.</p> <p>2. EXTENDED SWAY BAR LINKS MUST BE USED DUE TO THE ADDED DROOP TRAVEL.</p> <p>3. 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>	

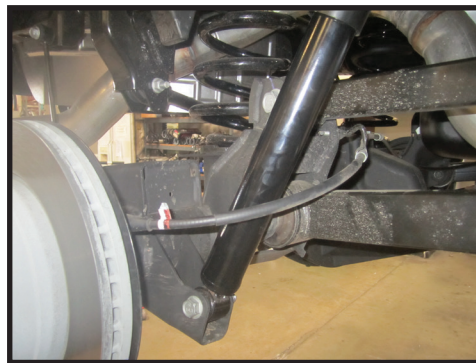


WARNING!
<p>** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!</p> <p>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING 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 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 rear wheels (optional).
- Use a jack to support the rear axle. Loosen the lower shock mount using a 21mm socket/wrench and remove bolt. [FIGURE 1]

FIG.1



- Use a 19mm socket/wrench to loosen the upper shock stem mount and remove the factory nut. Slowly lower the jack to allow enough clearance to remove the shock assembly.

4. Install stem hardware as seen in the diagram. Install (605810) tall nut and fasten bushing assembly until 3-4 threads are exposed for the (605809) jam nut. Install (605809) nut and torque to 50 ft-lbs while holding (605810) with a 19mm wrench. Do not overtighten bushing assembly as this can lead to premature bushing wear. Failure caused by incorrect installation of bushings is not covered under ICON's warranty policy. [SEE DIAGRAM] [FIGURE 2]

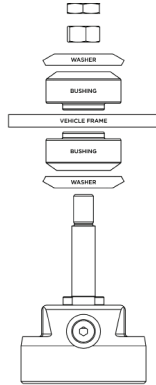


FIG.2

5. With the upper assembly loose, line up the lower mount using the jack to position the axle at the right height, and install the factory lower shock bolt with a 21mm. The wide spacer pushes the shock toward the tire, away from the link. [FIGURE 3]



FIG.3

6. Remove the factory cable routing bracket on the rear passenger upper link. Bracket will not be reused. Use the supplied (214111) bracket and the factory bolt to route the cable above the link arm as shown. The bracket will keep the reservoir from binding up the emergency brake cable. Slack will have to be pulled from the driver side of the truck near the fuel tank to allow for adequate clearance. [FIGURE 4]

NOTE: Failure to install (214111) bracket will cause damage to the shock and emergency brake cable, and will NOT be covered under ICON's warranty policy!

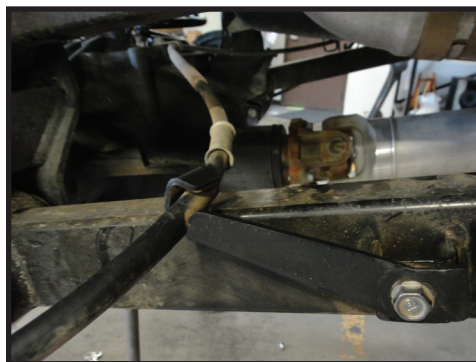


FIG.4

7. Install extended sway bar links (217120) that were included in front coil kit. [FIGURE 5]



FIG.5

8. If the rear wheels were removed in step 1, reinstall them and lower the 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.

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
217802CP	14-UP RAM 2500 2.5" FRONT 2.5 VS RR CDCV SHOCKS

COMPONENTS INCLUDED	
(1) 214946C 14+ RAM 2500 2.5" FRONT 2.5 RR CDCV (DRVR)	(4) 605136 3/8-16 X 1.000 BUTTON HEAD
(1) 214946C 14+ RAM 2500 2.5" FRONT 2.5 RR CDCV (PASS)	(2) 611006 9/16 HD STEM BUSHING KIT
(2) 250006 7.5 UNIVERSAL 90 DEGREE RESI MT	(1) 611051 HOSE CLAMP KIT
	(4) 605133 3/8 WASHER
	(4) 605124 3/8-16 LOCKNUT THIN
HARDWARE INCLUDED	
611006 CONTENTS	
(2) 255200 STEM BUSHING 9/16 ID	(1) 605809 M12-1.25 JAM NUT
(2) 254200 9/16 STEM WASHER	(1) 605810 M12-1.25 NUT
611051 CONTENTS	
(4) 605931 1/2 X 2 1/16 - 3 ID #40 SS HOSE CLAMP	
TOOLS REQUIRED	
JACK	7/32" ALLEN
JACK STANDS	5/16" NUT DRIVER
TORQUE WRENCH	9/16" WRENCH
DRILL	19MM WRENCH (X2)
7/16" DRILL BIT	21MM SOCKET / WRENCH
TECH NOTES	
1. FAILURE TO INSTALL THE BRAKE LINE RELOCATION BRACKETS (PART #214108/214109) SUPPLIED WITH THE ICON 2.5" SPRING KIT (PART #214200) WILL LEAD TO BRAKE LINE FAILURE FROM THE SHOCK CRASHING INTO THE BRAKE LINES.	
2. THE DRIVER SIDE SHOCK IS SHOWN ON THE RIGHT SIDE IN THE PHOTO.	



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.**

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.
- Support the front axle with a jack and remove the driver side and passenger side front shocks using a 21mm socket/wrench for the lower shock mount and 19mm socket/wrench for the stem.
- Install the shock using the (254200) stem washer on the stem, followed by a (255200) bushing and then inserting the shock stem into the factory mount. Install the supplied (255200) 9/16" bushing and then a (254200) washer on top of the bushing followed by the taller m12 nut. Install the nut only a few turns so the upper assembly is loose. (FIGURE 1)

FIG.1



NOTE: Installing the upper stem bushing tight before installing the lower bolt will increase the difficulty of the lower bolt installation due to the way the radius arm swings as it cycles down. Leaving it loose allows it much more freedom.

NOTE: Take care not to wedge the reservoir hose against the clip referenced in (FIGURE 1) as it will cut the hose casing.

4. With the upper assembly loose, line up the shock in the lower mount using the jack to position the axle at the right height to install the factory lower shock bolt with a 21mm socket/wrench. [Torque to factory spec] (FIGURE 2)

FIG.2



FIG.3

5. Fasten the supplied (605810) large nut until 2-3 threads are showing and then install the supplied (605809) thin jam nut to lock it against the tall nut. [Torque the jam nut to 50ft-lbs] (FIGURE 3)

6. Locate the reservoir bracket and clamp it to the coil bucket to mark the two holes that need to be drilled. (FIGURE 4)

FIG.4



FIG.5

7. Remove the bracket and protect the backside of where you will be drilling thru. Drill two holes with a 7/16" drill bit. (FIGURE 5)

8. Spray paint the exposed metal to prevent corrosion.

9. Install the bracket with supplied 3/8" button head screws, washers and lock nuts. Use a 7/32" allen wrench and 9/16" socket/wrench to tighten. [Torque to 30 ft-lbs] (FIGURE 6)

FIG.6



FIG.7

10. Attach the reservoir to the bracket using the supplied hose clamps and a 5/16" nut driver. Roll the reservoir into the clamps to roll the hose inward, this will make the compression adjuster knob more accessible. (FIGURE 7)

11. Repeat steps on the passenger side.

NOTE: Over tightening the large stem nut will cause too much bushing preload which will cause premature wear on internal shock components and also effect vehicle ride characteristics.

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- 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.

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