



## #J5610 Installation Instructions 2007-2012 Jeep Wrangler JK Rear Coil Retainer Kit

### Read and understand all instructions and warnings prior to installation of product and operation of vehicle.

Zone Offroad Products recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known. Minimum tool requirements include the following: Assorted metric and standard wrenches, hammer, hydraulic floor jack and a set of jack stands. See the "Special Tools Required" section for additional tools needed to complete this installation properly and safely.

#### » PRODUCT SAFETY WARNING

Certain Zone Suspension Products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. Zone Offroad Products does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

#### » TECHNICAL SUPPORT

*Live Chat* provides instant communication with Zone tech support. Anyone can access live chat through a link on [www.zoneoffroad.com](http://www.zoneoffroad.com).

[www.zoneoffroad.com](http://www.zoneoffroad.com) may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to [tech@zoneoffroad.com](mailto:tech@zoneoffroad.com) detailing your issue for a quick response.

**888.998.ZONE** Call to speak directly with Zone tech support.

#### Difficulty Level

easy 1 **2** 3 4 5 difficult

Estimated installation: 1 hour

#### Special Tools Required

11/16 Step Drill

#### » PRE-INSTALLATION NOTES

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
4. Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
5. Secure and properly block vehicle prior to installation of Zone Offroad Products. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, Zone Offroad Products recommends rear alterations first.
7. Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.

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**\*Important\* Verify you have all of the kit components before beginning installation.**

## Kit Contents

Qty	Part	Qty	Part
2	High nut	1	938 Bolt Pack
2	2" dia x 1.25" tall block	2	1/2"-13 x 2" bolt - grade 8
2	1/2" Rivet Nuts	2	1/2" SAE thru hardened washer
2	Upper Coil Retainer Plate	2	1/2" external serrated edge washer
		2	1/2"-13 x 2-1/2" bolt - grade 5
		2	1/2"-13 x 1-1/4" bolt - grade 5
		4	1/2" SAE Washer
		2	1/2"-13 flanged serrated edge nut

## Installation Instructions

1. Park vehicle on a clean, flat, and level surface. Block the front wheels for safety.
2. Disconnect the rear trackbar from the axle. Disconnect the brakeline mounting brackets from the frame rails. Remove ABS wire clips from axle. This will allow everything to droop out and not become overextended. Retain all hardware.
3. Jack up the rear of the vehicle and support the frame with jackstands.
4. Place a hydraulic jack under the rear axle for support. Remove the lower shock and lower sway bar hardware.
5. Lower the axle and remove the rear coils. Check and make sure all cables are not overstretched.
6. Drill the lower axle pad out to 11/16". A step drill is highly recommended. If a drill bit that size is unavailable, a die grinder can be used to enlarge the factory hole. **Figure 1**

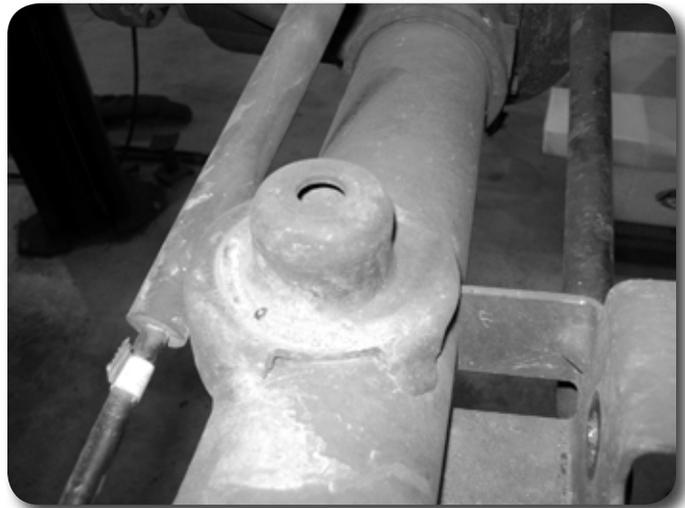


Figure 1

7. Assemble rivet nut installation tool as shown: 1/2" x 2" grade 8 bolt (yellow zinc), washer, 9/16" high nut, 1/2" serrated edge lock washer, threaded into the rivet nut.
8. Install into the 11/16" hole, with a wrench on the high nut, tighten the bolt until the rivet nut deforms and locks into the axle. **Figure 2** See detailed rivet nut installation instructions at the end of this instruction sheet.



Figure 2

9. Reinstall the coil with isolator on top and body lift block inside the coil.
10. Attach the provided 2" block to the axle with  $\frac{1}{2}$ " x 2-1/2" hardware (clear zinc), tighten to 45 ft-lbs.
11. Attach the coil to the frame with the upper retaining clips. Attach to the factory hole with  $\frac{1}{2}$ " bolt, washer, and serrated edge flange nut on top of the frame. Tighten to 65 ft-lbs. **Figure 3**



Figure 3

12. Reattach shocks with factory hardware. Tighten to 65 ft-lbs.
13. Reattach sway bar links, ABS wires, and brakeline brackets to the frame rail. Check for adequate slack, especially when installing longer shocks. Tighten

## Post-Installation Warnings

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.
3. Perform head light check and adjustment.
4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.

## Step 1 Note

If the correct drill size is not available, it is possible to drill the hole to an available smaller size and slowly grind it out to until the rivet-nut fits tight.

hardware to factory specifications. Make sure the sway bar is not limiting downtravel.

14. Lower vehicle to the ground, reinstall the trackbar hardware. Tighten to 110 ft-lbs.
15. Check hardware torque after 500 miles.

## Detailed Rivet Nut Installation Instructions

### » HOLE PREPARATION

1. Drill hole to appropriate size for rivet nut installation. 1/2" Rivnuts require an 11/16" hole and 3/8" Rivnuts require a 17/32" drill. It is critical that this hole is drilled to the correct size. Remove any burrs that could keep the rivet nut from seating flat against either side of the hole surface.

### » RIVET NUT INSTALLATION TOOL ASSEMBLY

2. For a 3/8" rivet nut, place the provided 3/8" SAE flat washer on the 3/8" x 1-1/2" bolt, followed by 7/16" hex nut and then a 3/8" serrated washer. **Figure 1** Thread this tool assembly into the rivet nut.
3. For a 1/2" rivet nut, place the provided 1/2" SAE washer on a 1/2" x 2" bolt followed by a 9/16" high nut and 1/2" serrated edge lock washer. Thread this tool assembly into the rivet nut as shown. **Figure 1**

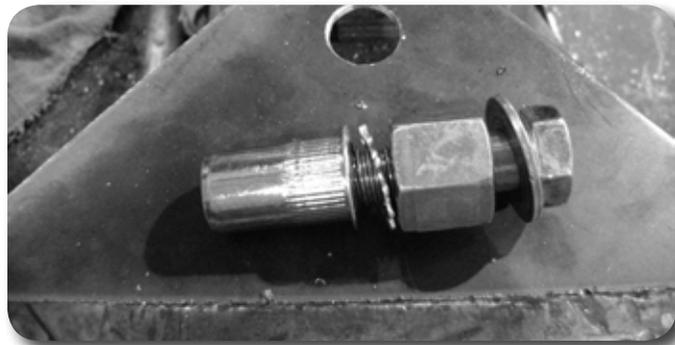


Figure 1 - 1/2" Rivet Nut Shown

### » RIVET NUT INSTALLATION

4. Verify the correct size rivet nut for the application based on the following chart.

Part Number	Thread Size	Body Length (in)	Material Thickness (in)		Drill Size (in)
			Min.	Max.	
95105A159	3/8-16	.690	.027	.150	17/32
95105A168	3/8-16	.805	.150	.312	17/32
95105A169	1/2-13	1.150	.063	.200	11/16
95105A170	1/2-13	1.300	.200	.350	11/16

5. Place the installation tool with the rivet nut threaded on the end into the appropriately sized hole.

6. For a 3/8" rivet nut, hold the nut closest to the rivet nut still with an 5/8" wrench and tighten the 3/8" bolt with a 9/16 wrench or impact gun to set the rivet nut. Be sure to hold the rivet nut flush to the surface and square to the hole as it is tightened. **Figure 2**
7. For a 1/2" rivet nut, hold the nut closest to the rivet nut still with an 7/8" wrench and tighten the 1/2" bolt with a 3/4" wrench or impact gun to set the rivet nut. Be sure to hold the rivet nut flush to the surface and square to the hole as it is tightened. **Figure 2**



Figure 2 - 1/2" Rivet Nut shown

### Step 6 & 7 Note

If available, an impact gun is recommended for tightening the bolt to ensure the rivet nut remains square to the hole and to ease holding the nut from spinning.

### » TORQUE SPECIFICATIONS

8. 3/8" rivet nuts will approach 40 ft. lbs for maximum grip strength. Do not exceed 45 ft-lbs when setting the rivet nut.
9. 1/2" rivet nuts will approach 90 ft lbs for maximum grip strength. Do not exceed 100 ft-lbs when setting the rivet nut.

### Step 8 & 9 Note

If using the recommended impact gun, use caution to not exceed the recommended torque specifications.

### » RIVET NUT TOOL REMOVAL

10. Once the center bolt is tightened, remain holding the nut from spinning with the wrench and loosen the center bolt to remove the installation tool.
11. Verify proper installation by checking for consistent rivet nut deformation to see the threads are square and centered to the rivet nut. **Figure 3.**

### Step 10 \*IMPORTANT\*

It is very important to hold the nut as the bolt is loosened because the grip of the star washer will try to spin the rivet nut and ruin the installation.



Figure 5