

Rusty's WJ Grand Cherokee 2.5" Basic Kit RK-250B-WJ INSTALLATION INSTRUCTIONS

Last Revised: 12/4/2018

Introduction:

Rusty's recommends that this installation be performed by a certified automotive technician or a person with professional mechanical knowledge. Installing this kit without this expertise may jeopardize the handling and safety of the vehicle.

Read instructions several times before starting. Be sure you have all the needed parts and know where they install. Read each step completely as you go. Exhaust modifications may be necessary. Prior to drilling or cutting, check behind the surface being worked on for any wires, lines, or hoses that could be damaged. After any drilling or cutting, remove burrs and grind smooth any surfaces. An inclinometer or similar tool may be needed to measure driveshaft angles before and after the installation.

Warning:

- It is the owners' responsibility to inspect all Rusty's products for proper torque specs to prevent loosening of components.
- Seat belts and shoulder harnesses should be worn at all times.
- Re-check all bolts and nuts after the first 100 miles and after any off-road usage during the first 300 miles.
- Although all of our products are made from the highest quality materials possible, they are not a substitute for Safe and Careful driving. In other words, have good safe on-road / off-road sense. Know the terrain, the speed limitations, and any obstacles that may lie ahead. Please remember to preserve our right to enjoy public land through the proper use of off-road vehicles.

Before Starting Installation:

1. Carefully Read all warnings and instructions completely before beginning.
2. Verify all parts have been received in this kit by checking the parts list on page#2 of this document.
3. Only install this kit on the vehicle for which it is specified.
4. Park the vehicle on a clean, dry, flat, level surface and block the tires so the vehicle cannot roll in either direction.
5. Be certain the vehicle is safely secured on jack stands or a vehicle lift prior to working around or under a vehicle. Never rely on a jack alone to support a vehicle's weight; use appropriately rated stands to support the vehicle's frame and any other heavy components.

Parts List:

Note: Please be sure that you have all the provided parts listed below before continuing with the installation.

Part #	DESCRIPTION:	Quantity
RC-CS500-WJ	Rusty's WJ Front 2.5" Coil Springs (Pair)	1
RC-CS520-WJ	Rusty's WJ Rear 2.5" Coil Springs (Pair)	1
RX-27	Rusty's RX100 Performance Shock: RX-27 (Contents Below)	2
	(Bushing Packs: PO1533 & PO1318)	
RX-26	Rusty's RX100 Performance Shock: RX-26 (Contents Below)	2
	(Bushing Packs: PO1532 & PO1313)	
	12mm Shock Sleeves	4

Front Installation Instructions

Note: Save all factory components and hardware for reuse, unless noted.

1. Raise vehicle and place jack stands under the frame. Chock the rear tires to prevent any accidental movement.
2. Support the front axle with the floor jack.
3. Remove the tires and wheels.
4. Remove the factory shocks at the top inside of the fender well and at the bottom, do not discard. The hardware will be reused.
5. Unbolt the sway bar links on both sides, don't discard hardware.
6. Remove the bolts that secure the front brake lines to the frame rail to prevent damaging the brake line when lowering the axle.
7. On each side, remove the bolt that holds the factory coil spring retainer clip, it's located on the lower coil spring mount.
8. Remove the factory coil springs from vehicle. Lower the jack used to support axle if needed to remove the coil springs. (**Note:** If using a coil spring compressor, take special care.)
9. Set the new front coil springs into place and reinstall the factory coil spring retainer clips you removed in step 7. (Torque to 10 ft. lbs.)
10. Raise the jack used to support the front axle until the coil springs are seated into position. (**Note:** Use caution not to lift the vehicle off of the jack stands.)



Front Installation Instructions (Continued)

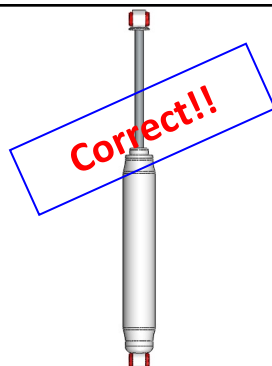
11. Install the new Rusty's front shocks into their upper mounting position with the supplied hardware. (Torque to 17 ft. lbs.) (**Note:** It is a good idea to take a wire brush and clean any excess paint from the threads on the stud to prevent the nut from tightening properly.)
12. Install the lower end of the shock to the axle using the factory hardware. (Torque to 20 ft. lbs.)
13. Reinstall the factory sway bar links at this time using factory hardware.
14. Reinstall the bolts to reattach the brake lines to the frame rails.
15. Install tires and wheels. Jack up the vehicle and remove jack stands and lower to the ground.
16. Front Installation Completed!

Rear Installation Instructions

17. Raise vehicle and place jack stands under the frame. Chock the front tires to prevent any accidental movement.
18. Support the rear axle with the floor jack.
19. Remove the tires and wheels.
20. Remove the factory shocks at the top inside of the fender well and at the bottom, do not discard. The hardware will be reused.
21. Unbolt the rear sway bar links on both sides, don't discard hardware.
22. Remove the factory coil springs from the vehicle. Lower the jack used to support axle if needed to remove the coil springs. (**Note:** If using a coil spring compressor, take special care.)
23. Set the new rear coil springs into place.
24. Raise the jack used to support the front axle until the coil springs are seated into position. (**Note:** Use caution not to lift the vehicle off of the jack stands.)
25. Install the bushings and sleeves in the new Rusty's shocks. Install them on the vehicle with the factory hardware. (Torque upper bolts to 23 ft. lbs. and lower bolts to 74 ft. lbs.) (**Note:** Please note the orientation of the rear shocks.

CORRECT:

Mount RX-100 series shocks with the body down and shaft pointing up.



INCORRECT:

DO NOT MOUNT RX-100 Series Shocks with the Shaft pointing towards the ground. This will cause poor handling and ride quality.



Rear Installation Instructions (Continued)

26. Install tires and wheels. Jack up the vehicle and remove jack stands and lower to the ground.

27. Rear Installation Completed!

Final Notes

At this point there should be no parts left but installing the stickers. The vehicle will need to have an alignment as soon as possible, if you don't you may get the "death wobble", poor tire wear or just a bad handling vehicle.

Alignment Recommended Specifications

- Toe: Should be set at 0 to 1/32" Toe Out
- Castor: 7.5 Degrees Positive
- Camber: 0

WARNING

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For Questions or Suggestions, contact our Tech Department (256-442-0607)