

## Rusty's WJ Grand Cherokee 2" Budget Kit RK-BB20-WJ INSTALLATION INSTRUCTIONS

Last Revised: 6/22/2018

### 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.

<b>Part #</b>	<b>DESCRIPTION:</b>	<b>Quantity</b>
RC-SP200F-WJ	Rusty's WJ Front 2" Poly Coil Spacer (Pair)	1
RC-SP200R-WJ	Rusty's WJ Rear 2" Poly Coil Spacer (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 the front of the vehicle with a jack and secure a jack stand under each frame rail. Chock the rear tires to prevent any accidental movement.
2. Lower the vehicle to the jack stands.
3. Place a jack under the front axle to support it.
4. Remove the front wheels and tires from the vehicle.
5. Remove the factory front shocks using an 13mm socket or wrench to unbolt the lower shock bolt at the axle mount. Remove the upper shock mount using a 15mm wrench. Save all hardware for re-use.
6. Unbolt the front sway bar links at the axle mounting points with use of a 15mm and 18mm wrench. Save all hardware for re-use.
7. Remove the bolts that secure the front brake lines to the frame rail in order to prevent damaging the brake line when lowering the axle. Save all hardware for re-use.
8. Remove the hardware that secures the factory coil spring retainer clips to the axle mount, located on the lower coil spring mounting points.
9. Remove the factory coil springs from vehicle. Slowly lower the jack used to support the axle if needed to remove the coil springs. (Note: If using a coil spring compressor, take special care.)



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

### Front Installation Instructions (Continued)

10. Remove the factory upper coil spring isolators from the vehicle.
11. Install the supplied Rusty's WJ Front 2" Poly Coil Spacers at this time. Make sure that the side of the spacer with a lip is facing the ground. (**Note:** The use of a little dish washing detergent on the spacer shaft and the inside of each spacer will make the installation process easier. It maybe necessary to lightly tap the spacer into position.)



12. Set the factory coil springs back into place and reinstall the factory coil spring retainer clips you removed in step 8. (Torque to 10 ft. lbs.)
13. Raise the jack used to support the front axle until the coil springs are seated in to position. (**Note:** Use caution not to lift the vehicle off of the jack stands.)
14. Install the new Rusty's front shocks (RX-27) 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 not tightening properly.)
15. Install the lower end of the shock to the axle using the factory hardware. (Torque to 20 ft. lbs.)
16. Reinstall the factory sway bar links at this time using factory hardware.
17. Reinstall the bolts to reattach the brake lines to the frame rails.
18. Install tires and wheels. Jack up vehicle and remove jack stands and lower to the ground.
19. Front Installation Completed!

### Rear Installation Instructions

20. Raise the rear of the vehicle with a jack and secure a jack stand under each frame rail. Chock the front tires to prevent any accidental movement.
21. Lower the vehicle to the jack stands.
22. Place a jack under the rear axle to support it.
23. Remove the rear wheels and tires from the vehicle.
24. Remove the factory rear shocks with the use of a 15mm and 18mm wrench or socket. Save all hardware for re-use.



### Rear Installation Instructions (Continued)

25. Unbolt the rear sway bar links at the frame mounting points with use of a 15mm wrench. Save all hardware for re-use.
26. Remove the factory coil springs from vehicle. Slowly lower the jack used to support the axle if needed to remove the coil springs. (**Note:** If using a coil spring compressor, take special care.)
27. Remove the factory coil spring isolators from the lower coil spring mounting point.
28. Install the supplied Rusty's WJ Rear 2" Poly Coil Spacers at this time to the rear lower coil spring mounting point. Position spacer with the part numbers facing down.



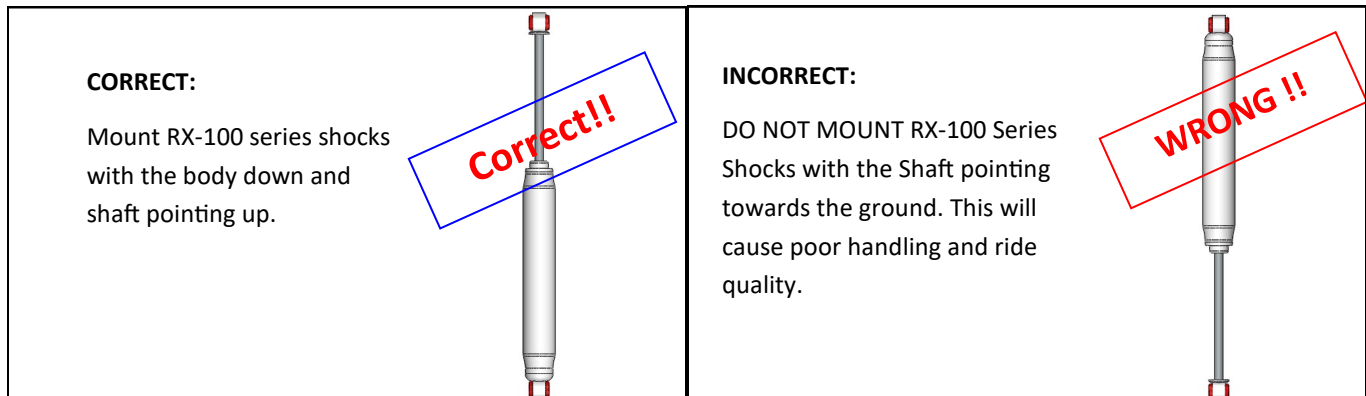
29. Reinstall the factory coil spring isolators removed in step 8 on top of the Rusty's WJ Rear 2" Poly Coil Spacers.



30. Set the factory coil springs back into place.
31. Raise the jack used to support the rear axle until the coil springs are seated in to position. (Note: Use caution not to lift the vehicle off of the jack stands.)

### Rear Installation Instructions (Continued)

32. Assemble the bushings and sleeves in the rear shock absorbers (RX-26). Install the shocks using the original hardware and torque to factory specifications. (**Note:** Make sure that the white body is installed body down and shaft pointing up as pictured below.)



33. Reinstall the factory rear sway bar links at this time using factory hardware.
34. Install tires and wheels. Jack up vehicle and remove jack stands and lower to the ground.
35. 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 Degrees Positive
- Camber: 0

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