Rusty's Off-Road Products
7161 Steele Station Road
Rainbow City, AL 35906
1-256-442-0607
www.rustysoffroad.com

Rusty's JK Wrangler 2" Plus Kit
RK-200D-JK
INSTALLATION INSTRUCTIONS

Last Revised: 5/31/2017

Introduction:

Rusty's recommends that this installation is 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. Before 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.

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Parts List:

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

Part #	DESCRIPTION:	Quantity
RC-CS222-JK	Rusty's 2" JK Front Coil Springs (Pair)	1
RC-CS244-JK	Rusty's 2" JK Rear 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)	
RC-TB380-JK	Rusty's JK Adjustable Front Track Bar	1
RC-TB390-JK	Rusty's JK Adjustable Rear Track Bar	1
RC-CA211-JK	Rusty's JK Adjustable Front Lower Control Arms w/Forged Rubber Ends (Pair)	1
OR	**OR**	**OR**
RC-CA411-JK	Rusty's JK Adjustable Front Lower Control Arms w/Forged Flex Ends (Pair)	1
RC-CA212-JK	Rusty's JK Adjustable Rear Lower Control Arms w/Forged Rubber Ends (Pair)	1
OR	**OR**	**OR**
RC-CA412-JK	Rusty's JK Adjustable Rear Lower Control Arms w/Forged Flex Ends (Pair)	1

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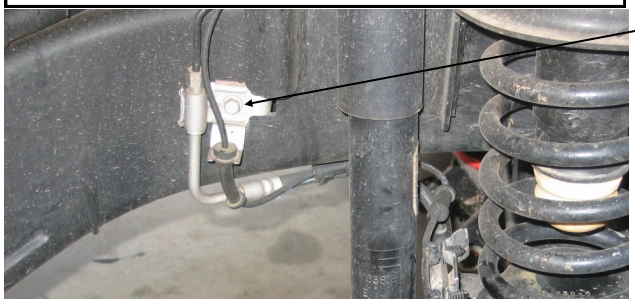
Front Installation Instructions

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, behind the trailing arms.
2. Lower the vehicle to the jack stands. Remove the tires.
3. Place a jack under the front axle to support it.
4. Remove the track bar at the frame and axle mounts using a 21mm socket. Save the hardware; it will be re-used.
5. Remove the factory front shocks using an 18mm socket and wrench to unbolt the lower shock bolt at the axle. Remove the upper shock mount using a 16mm wrench. Save all hardware for re-use.
6. Unbolt and remove the front sway bar links from the axle and sway bar using an 18mm socket.
7. Refer to the images on the following page to determine the correct location to disconnect you brake lines from the vehicle. Both will be removed using a 10mm wrench. (**Note:** The ABS wire may have to be un-clipped from the brake line to allow the axle to be lowered to remove the coil springs.)

Early '07-'11 Model Brake Line Bracket



Loosen with 10mm ratchet and retain the hardware.

2012 & Newer Model Brake Line Bracket

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Front Installation Instructions (Continued)

8. Lower the axle with the jack and remove the front coil springs. The new RC-CS380-JK Front Coils should now be installed. A coil spring compressor may be necessary for installation.
9. Adjust the supplied Rusty's JK Wrangler Adjustable Front Lower Control Arms to the specified length in the chart below for your suspension height. (**Note:** The length of the control arms could need to be adjusted when the vehicle is being aligned as this is just an approximate starting length and can vary.

Front Lower Control Arm Length Chart	
2" Suspension Lift	22-3/4" Center of Hole to Center of Hole

10. Install the supplied front coil springs in the same manner that the factory coil springs where removed and slowly raise the front axle to seat the coil springs. In some cases a coil spring compressor could be needed to install the coil springs. (Note: Make sure to install the springs as labeled, the driver and passenger side coils are side specific.) (Note: Use caution when raising the front axle not to lift the vehicle off of the jack stands.)
11. Reattach the front brake lines to the factory mounting positions.
12. Assemble the bushings and sleeves in the new front shocks (RX-27) and install them using the factory hardware on the bottom and the supplied hardware on the top. Torque the lower hardware to factory specifications. Tighten the upper nut until the bushings swell slightly. (**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.)
13. Reinstall the tires, remove the jack stands and lower the vehicle to the ground.
14. Bolt the supplied front track bar (RC-TB380-JK) to the frame using the factory hardware with a 21mm wrench. The adjustable end of the trackbar bolts to the axle end. Leave the adjustable end unbolted. Center the front axle under the vehicle, once centered, adjust the trackbar to fit.
15. Before bolting to the axle, you will need to center the body over the axle. Look at the front of the vehicle to see if the axle is centered, if not unlock the steering wheel. Turn the steering wheel to shift the body over the axle until centered. Once centered lock the steering wheel and adjust the adjustable end of the track-bar to the proper length and fasten to the axle mount with the factory hardware. Torque to 75 lb.-ft.

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Rear Installation Instructions

16. Raise the rear of the vehicle and place jack stands under the frame rail, just ahead of the trailing arms.
17. Lower the vehicle to the jack stands. Remove the tires.
18. Place a jack under the axle to support it.
19. Remove the track bar at the frame and axle mounts using a 21mm socket. Save all hardware for re-use.
20. Remove the factory rear shocks using an 18mm socket and wrench to unbolt the lower shock bolt at the axle. Then unbolt the upper end of the shocks and remove them from the vehicle. Save all hardware for re-use.
21. Remove the rear brake line bracket from the frame rail using a 10mm socket. Save all hardware for re-use.
22. Disconnect the rear sway-bar links from the axle.
23. Lower the axle with the jack and remove the rear coil springs. Install the RC-CS390-JK Rear Coils. A coil spring compressor may be necessary for installation.
24. Adjust the supplied Rusty's JK Wrangler Adjustable Rear Lower Control Arms to the specified length in the chart below for your suspension height and install with the factory hardware. (Note: The length of the control arms could need to be adjusted when the vehicle is being aligned as this is just an approximate starting length and can vary.)

Rear Lower Control Arm Length Chart	
2" Suspension Lift	19-7/8" Center of Hole to Center of Hole

24. Install the supplied rear coil springs in the same manner that the factory coil springs where removed and slowly raise the rear axle to seat the coil springs. In some cases a coil spring compressor could be needed to install the coil springs. (Note: Use caution when raising the axle not to lift the vehicle off of the jack stands.)
25. Re-attach the rear sway-bar links to the axle using the factory hardware and tighten to factory specifications.
26. Reattach the rear brake lines to the factory mounting positions.

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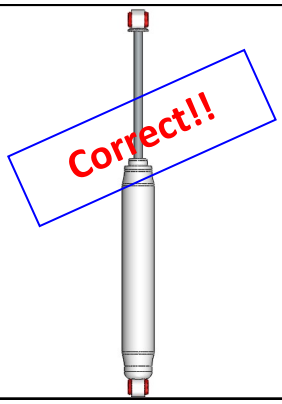
Rear Installation Instructions (Continued)

27. Assemble the bushings and sleeves in the rear shock absorbers (RX-13). Note: Make sure that the white body is installed body down and shaft pointing up as pictured below. If you upgraded to RX-200 or RX-300 shocks, you can mount them in any orientation you prefer. Install the shocks using the original hardware and torque to factory specifications.

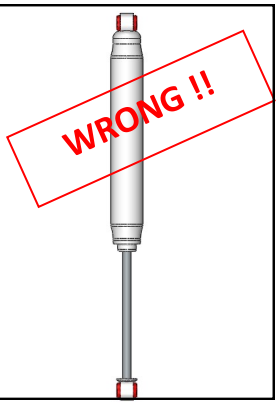
CORRECT:

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.



28. Reinstall the tires, remove the jack stands and lower the vehicle to the ground. Torque lug nuts to factory specifications.
29. Bolt the supplied track bar (RC-TB390-JK) to the axle using the factory hardware with a 21mm wrench. The adjustable end of the track bar bolts to the frame end. Leave the adjustable end unbolted. Using a ratchet strap to center the rear axle under the vehicle, center and adjust the track bar to fit. Take measurements to ensure that the body is centered.
30. Adjust the end of the track bar to line up with the frame mount and secure it using the factory hardware with a 21mm wrench. Torque both ends of the track bar to 75 Ft. lbs. Firmly tighten the jam nut.
31. Double-check all hardware used for installation for proper clearances and torque.
32. IMPORTANT NOTE: Once installation of this lift kit is complete, the drag link MUST be adjusted to center the steering wheel BEFORE the vehicle is driven. Failure to do so will cause the Vehicle Stability Program not to function properly, odd vehicle handling, and poor performance.
33. Adjust the front drag link to center the steering wheel by loosening the two bolts on the drag link adjustment collar and then and rotating the adjustment collar until the steering wheel is centered.
34. Retighten the two bolts on the drag link adjustment sleeve.

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Rear Installation Instructions (Continued)

35. Readjust headlights to proper specs.
36. A professional front end alignment is required. If necessary, the vehicle can be driven to a local alignment shop, but the alignment should be performed as soon as possible.
37. Re-torque all fasteners after 500 miles and recheck after 1000 miles. Visually inspect all hardware components and re-torque fasteners during routine vehicle service.
38. Installation is now complete. Cycle the steering lock-to-lock and double-check all of the components for proper operation, clearances, and torque.

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

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 300 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. Thank you for choosing Rusty's Off Road Products.