

Rusty's KJ Liberty 2" Budget Boost Kit RK-BB20-KJ INSTALLATION INSTRUCTIONS

Last Revised: 11/2/2018

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
RK-BB20-KJ	2.5" KJ Liberty Budget Kit	1
RC-SP200F-KJ	Rusty's Spacers - 2" Front (KJ)	2
RC-SP200R-KJ	Rusty's Spacers - 2" Poly Rear (KJ)	2
RX-906	Rusty's RX100 Performance Shock: RX-906 (Optional Rear Shocks)	2

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. Remove the tires and wheels.
3. Disconnect the lower strut fork at the lower control arm and at the lower portion of the strut assembly.
4. Remove the air box by removing the air cleaner and lifting it up and out. Remove the upper 4 strut tower nuts from inside the engine compartment on both sides.
5. Remove the strut assemblies.
6. With the struts removed, grind or cut the un-threaded stud end off the top of the stud. Install the supplied front strut spacer and tighten the hardware. (Torque to 75 ft. lbs.)
7. Reinstall the strut assembly into the vehicle and start the upper nuts, hand tighten only, reinstall the lower strut fork and tighten the bolt at the coil spring and then at the lower control arm. (Torque to 85 ft. lbs.)
8. Tighten the upper 4 new nuts and washers on each side and reinstall the air box. (Torque to 75 ft. lbs.)
9. Install the wheels.
10. Remove jack stands and lower the vehicle to the ground.

Rear Installation Instructions

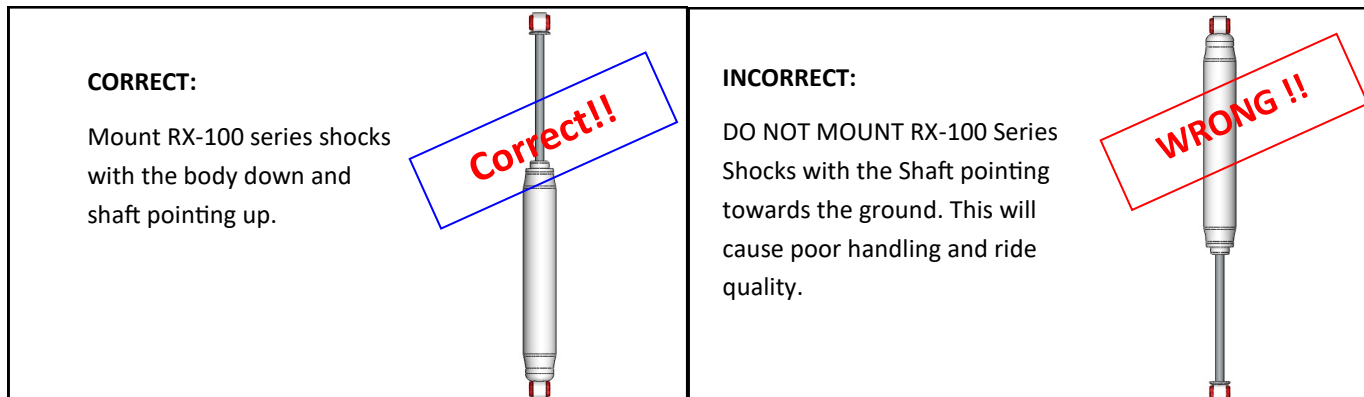
Note: Save all factory components and hardware for reuse, unless noted.

11. Raise vehicle and place jack stands under the frame. Chock the rear tires to prevent any accidental movement.
12. Remove the tires and wheels.
13. With a floor jack supporting the axle, disconnect the shock.



Rear Installation Instructions (Continued)

14. Lower the axle and remove the coil springs.
15. Remove the lower coil spring isolator.
16. Install the coil spring spacer in the same position as the lower isolator.
17. Install the coil spring on top of the coil spring spacer. (Disconnecting the rear sway bar may make it easier.)
18. Raise the floor jack to align and reinstall the shocks to the shock mounting points. (Torque to 30 ft. lbs.) If you purchased the optional rear shocks install them by installing the bushings and sleeves in the new Rusty's shocks. Install them on the vehicle with the factory hardware. (Torque upper bolts to 18 ft. lbs. and lower bolts to 40 ft. lbs.) (Note: Please note the orientation of the rear shocks.)



19. Install the wheels.
20. Remove jack stands and lower the vehicle to the ground.
21. Installation is now complete.

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

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