



#F1509 Installation Instructions 2020 Ford Super Duty F350 Dually 4WD Rear Suspension Lift

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

www.zoneoffroad.com may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to tech-zone@ridefox.com detailing your issue for a quick response.

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

» 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.

Difficulty Level

easy 1 2 **3** 4 5 difficult

Estimated installation: 4-6 hours

Special Tools Required

Heavy Duty Floor Jack and Stands

Tire/Wheel Fitment

Tire:

37 x 12.50

Wheel:

9" Wide with 4.5" backspacing

Kit Contents

F1509 Rear Box Kit (2020)

Qty	Part
1	5" Rear Block - DRV
1	5" Rear Block - PASS
4	5/8" x 3-5/8" x 19" U-bolts/nuts/washers
8	5/8 SAE Flat Washer -Black
8	5/8 Fine High Nut Black E-coat
1	E-Brake Relocation Bracket
1	E-Brake Clamp Bracket
1	989 Bolt Pack
2	<i>Wire Clamp</i>
1	<i>1/2"-13 x 1-1/4" Bolt, Grade 5, Clear Zinc</i>
1	<i>1/2"-13 Prevailing Torque Nut, Clear Zinc</i>
2	<i>1/2" SAE Washer, Clear Zinc</i>
2	<i>5/16"-18 x 1-1/4" Bolt, Grade 5, Clear Zinc</i>
2	<i>5/16"-18 Prevailing Torque Nut, Clear Zinc</i>
4	<i>1/4" USS Washer, Clear Zinc</i>

INSTALLATION INSTRUCTION

» REAR INSTALLATION

1. Block the front wheels for safety.
2. Raise the rear of the vehicle and support with jack stands under the frame rails just ahead of the spring hangers.
3. Remove the wheels.
4. Support the axle with a hydraulic jack.
5. Remove the factory shocks. Retain all mounting hardware.
6. Remove the factory lift block. It will not be reused.
7. Lower the axle enough to place the provided lift block between the axle and the leaf spring. Position the block so the bump stop wing faces inward, and the small side of the block faces forward. **Figure 1**



Figure 1

8. Raise the axle to engage the block spring alignment pins. Fasten the entire assembly with the provided u-bolts, washers, and nuts. Snug but do not torque the U-bolts at this time. Figure 2

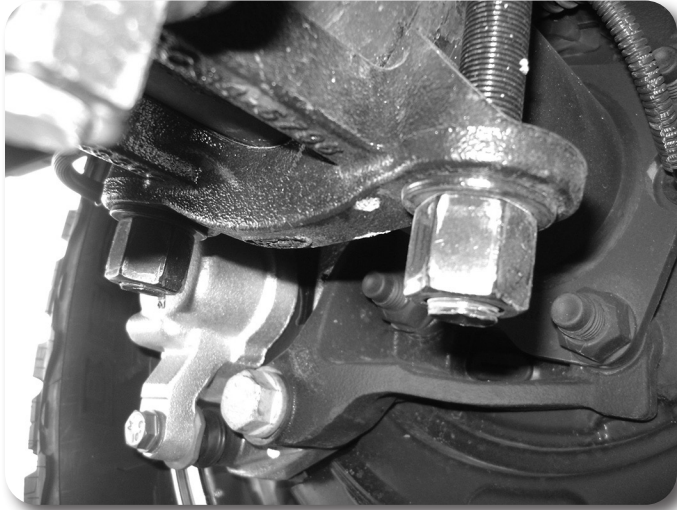


Figure 2

9. Repeat block installation of the driver's side. Take care not to over extend the brake lines.
10. Gain slack from the E-Brake cable on the driver's side. It is easiest to pull on the cable and use a pair of vise grips to hold the cable, be careful not to damage the cable.
11. Cut the bracket for the E-brake cable that is going to the passenger side of the vehicle in order to release the cable from the bracket. See Figure 3 for which bracket and where to cut. It is easiest to cut most of the way through the steel and then bend the flange up to release the cable from the bracket. Be careful not to cut the E-brake cable!

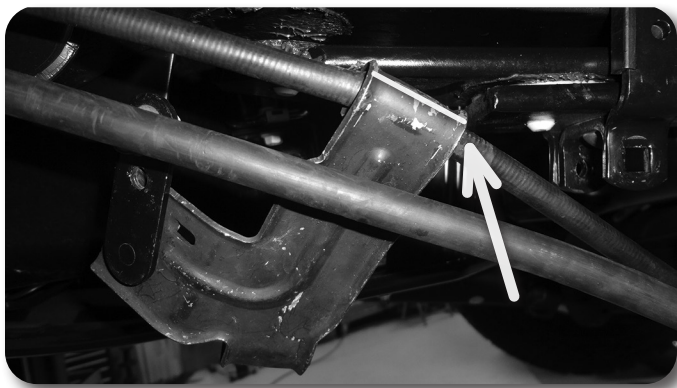


Figure 3

12. Depress the tabs and remove the passenger side E-brake cable from the mount on the frame.
13. Once the passenger side E-brake cable is free, remove the bolt and J-nut attaching the bracket to the frame.
14. Remove the driver side E-brake cable from the bracket and discard the bracket and hardware.
15. Remove the bolt and J-nut for smaller E-brake cable bracket. The E-brake cable relocation bracket will be reinstalled after the new leaf springs are installed.

Step 19 Note

Hardware for the E-Brake Relocation is in Bolt Pack 989.

16. Install the new E-brake cable bracket with the provided 1/2" hardware and 5/16" hardware as shown in Figure 3. The smaller driver side E-brake cable bracket will be installed in the same position as it was from the factory, but attached with the 5/16" hardware.

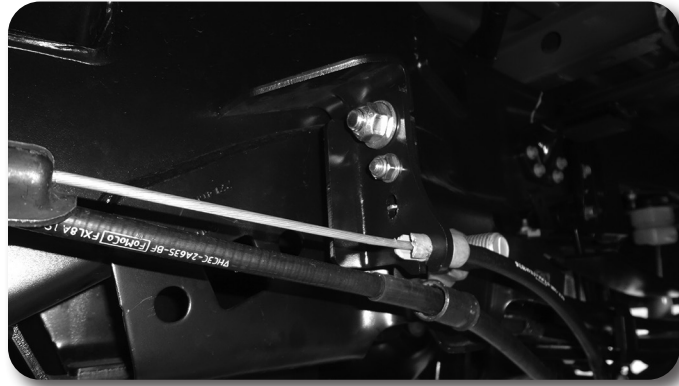


Figure 4

17. Install the passenger side E-brake cable into the bracket, make sure the tabs on the cable lock the cable into place.

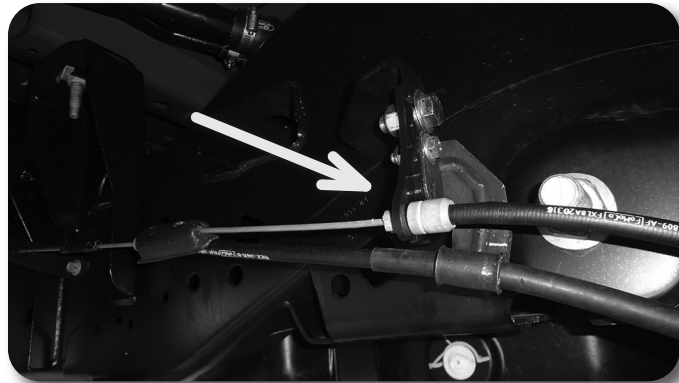


Figure 5

18. Remove the 3/8" bolt on the front leaf springs clamp. Install the E-brake clamp bracket with the new provided 3/8" bolt and nut through the leaf spring clamp. Make sure the E-brake clamp bracket is towards the outside of the leaf spring. Tighten the 3/8" hardware with the spacer tube in between to 25 ft-lbs.



Figure 6

19. Use the two provided wire clips to secure both E-brake cables to the E-brake clamp bracket with the provided 5/16" hardware. Figure 5

20. Install the new shocks with the original mounting hardware.
21. Install wheels and lower the vehicle to the ground.
22. With the weight of the vehicle on the axle, torque the u-bolts to 130-150 ft-lbs.

»» **POST INSTALLATION**

1. Install wheels, cycle steering to check for brakeline, ABS wire, ETC to tire clearance. With clearance verified lower the vehicle to the ground.
2. Cycle steering to check for brakeline, ABS wire, ETC to tire clearance, rotate the driver's side brakeline on the hardline if necessary.
3. An alignment is recommended, but not necessary.
4. Adjust steering wheel with adjustment on the draglink, do NOT drive the vehicle with the steering wheel off-center or adverse traction control affects may arise. Rotate the clamps once the steering wheel is straight as shown. (**Figure A** - incorrect, clamps will interfere with sway bar, **Figure B** - correct clearance). Torque clamps to 41 ft-lbs. Thread the collar to lengthen the drag link.
5. Adjust headlights.
6. Be sure the brake system has been properly bled and the brake fluid is topped off.
7. Check all hardware for proper torque. Check hardware after 500 miles.

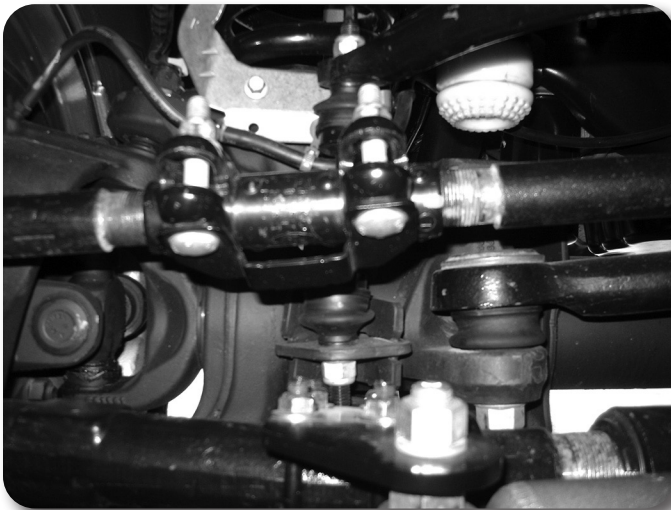


Figure A *Incorrect*

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.

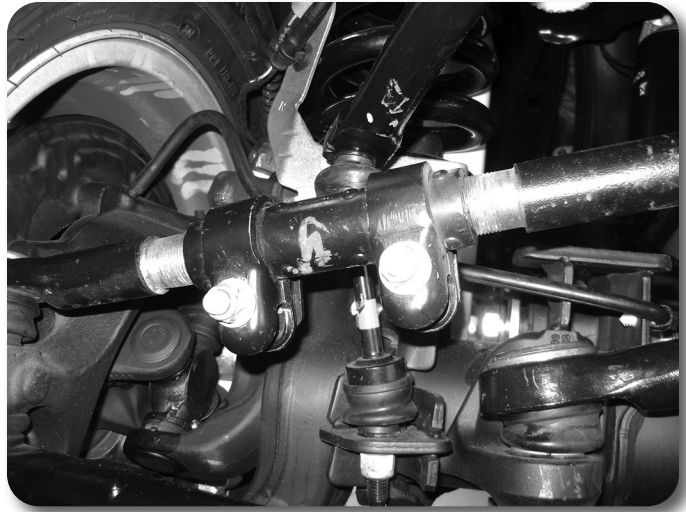


Figure B *Correct*