



## F2300 Installation Instructions 2004-2020 Ford F150 4WD Replacement Upper Control Arms

### 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](http://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](mailto: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: 2-3 hours

#### Special Tools Required

Ball Joint Separation Tool

#### Tire/Wheel Fitment

2-3" Lift: 35 x 12.50 w/5.5" BS \*Trimming Required\*

Max 5.5" BS required on 12.50 wide tires

Stock wheels and stock tires can be installed, but are tight to the ball joint cup

Kits using a replacement steering knuckle follow MFG recommendation for wheel / tire fitment.

### ZONF2300 Kit Contents

<i>Qty</i>	<i>Part</i>	<i>Qty</i>	<i>Part</i>
		1	PASS Arm Assembly
1	DRV Arm Assembly	1	Ball Joint
1	Ball Joint	2	Rubber Bushing
2	Rubber Bushing	1	Ball Joint Cap
1	Ball Joint Cap	1	Grease Zerk
1	Grease Zerk	1	O-ring
1	O-ring	2	Washers

## PRE-INSTALLATION NOTES

1. Do NOT hit the aluminum knuckle on later model trucks with a hammer to separate the ball joint. Use appropriate ball joint separation tool.
2. For replacement ball joints use service kit ZONF8202 or ZONF8212. Ball joint is directional and must be installed with the 'dot' facing either inward or outward on the vehicle, otherwise damage may occur.
3. These upper arms are designed to work with Fox Coilovers, Zone 2" Strut Spacer, or 6" Zone IFS Lift. They may not work with all spacer kits available. Check for upper ball joint to coil clearance before installation of the arms. If the factory arm in the balljoint area hits the factory coil, or has less than 1/8" of clearance, the arms will not fix the problem. A different aftermarket strut spacer or replacement Fox coilover are recommended, **Figure 1**.

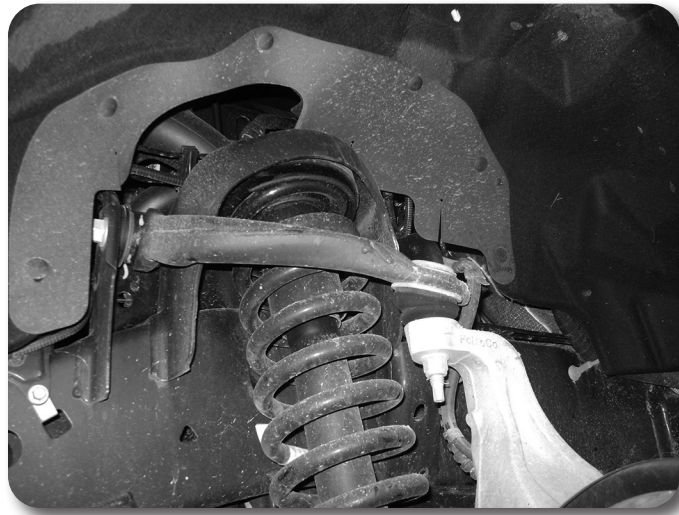


Figure 1

## INSTALLATION INSTRUCTIONS

4. Park vehicle on clean, flat, and level surface.
5. Block the rear wheels for safety.
6. Raise the front of the vehicle. Support the frame rails with jackstands. Remove the front wheels.
7. Disconnect the upper ball joint from the steering knuckle. Do not strike the side of the steering knuckle to get the taper to pop loose. Use appropriate ball joint separation tool to avoid damaging the steering knuckle (especially 2015+ models with aluminum knuckles). **Figure 2**



Figure 2

8. Remove the upper control arm from the vehicle and retain the upper control arm hardware.
9. If installing with Fox Coilovers or a strut spacer, install at this time. Follow instructions included with the coilovers or strut spacer.
10. Install new upper control arm with factory hardware. Do not tighten the bushing hardware at this time.
11. Attach upper control arm to the steering knuckle with included nut and washer. Tighten to 50 ft-lbs. **Figure 3**. Zone ball joints do not require the factory torque specification.



Figure 3

12. Grease the ball joint at this time.
13. Use the included grease packet to lube the o-ring. Install o-ring onto the cap and install cap into the arm. Note: The cap must be removed to grease the ball joint.
14. Reinstall wheels and torque lug nuts to factory specifications.
15. Lower the vehicle to the ground and torque upper control arm hardware to 122 ft-lbs.
16. Recheck hardware after 500 miles.
17. Remove the cap and grease the ball joint at regular service intervals. Replacement ball joint # is 500-1104

## **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.

## **Post-Installation**

1. Check all hardware for proper torque.
2. Reconnect the positive and negative battery cables if removed.
3. The vehicle will need a complete front end alignment.
4. Check all hardware after 500 miles.
5. Adjust headlights if installed in conjunction with a lift kit.