

RUGGED OFFROAD

5-101

2004-08 F150 4WD
2004-15 F150 2WD

Step by step instructions and checklist: Use the proper tools and safety equipment to perform all work. Torque all fasteners to proper specifications. Align your vehicle after installation.



Lift vehicle securely and remove wheels/tires.



Remove lower sway bar end link hardware.



Loosen upper ball joint nut, but do not remove.



Loosen upper strut mount nuts.



Carefully strike spindle as shown to separate ball joint.



Pull down and remove upper ball joint nut.



Loosen lower strut bolt/nut and remove.



Remove top strut mount nuts and remove assembly.



Attach strut extension spacer with **GOLD Flange Nuts**, tighten.



Use **SILVER Flange Nuts** to re-attach top of strut to vehicle.



Reconnect lower strut mount and torque to spec.



Use jack and pry bar to reattach upper ball joint to spindle.

		<p>Install wheels and torque to spec., measure and align.</p>
<p>Tighten upper ball joint and torque to spec.</p>	<p>Reconnect lower sway bar end links and torque to spec.</p>	

Final Checks & Adjustments

Post Installation Warnings: Once the vehicle is lowered to the ground, check all parts which have rubber or urethane components to insure proper torque. Torque wheels to factory specs. Move vehicle backwards and forwards a short distance to allow suspension components to adjust. Turn the front wheels completely left then right and verify adequate tire, wheel, brake line, and ABS wire clearance. Test and inspect steering, brake and suspension components for tightness and proper operation. Inspect brakes hoses and ABS lines for adequate slack at full extension. Failure to perform the post inspection checks may result in vehicle component damage and/or personal injury or death to driver and/or passengers. Test drive vehicle and re-check the torque of all fasteners and re-torque wheels on vehicle. Readjust headlamps.

Vehicle Handling Warning:

Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle.

Wheel Alignment/Headlamp Adjustment:

It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician. Align the vehicle to factory specifications. It is recommended that your vehicle alignment be checked after any off-road driving. In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle headlamps for proper aim and alignment

Vehicle Re-Torque and Safety Inspection:

Upon completion of all services and adjustments performed on your vehicle, and within 50 miles of driving, check to ensure all fasteners and hardware are properly torqued to specification as noted in the vehicles factory service manual.