

## 2004 - 2013 Ford F150 2WD/4WD 2.5" Level Lift Kit

### Parts:

2 - Front Strut Extensions    6 - 3/8"x2" Bolts  
6 - 3/8" FlangeLock Nuts

## PRE-INSTALLATION

**Professional installation by a certified technician is strongly recommended.**

*No responsibility for altered products. No claims are made regarding any lifting devices. Any and all claims implied in this document excluded.*

### NOTES:

The following instructions assume the use of factory wheels with size 35x12.50x18 tires. The use of wider tires will require trimming and offset wheels. **IMPORTANT: Most 2011 and newer vehicles require EPAS (Electronic Power Assist Steering) plugs to be disconnected before installing this kit. Failure to do so may result in damage to the EPAS module, requiring its replacement.**

### REQUIRED TOOLS:

15mm Wrench    15mm Socket    29mm Socket    1 1/16" Wrench  
21mm Wrench    21mm Socket    16mm Wrench    3/8" Wrench  
9/16" Wrench    9/16" Socket    Hammer    Floor Jack & Stands

2014 Models Only: 18mm Socket    Air Chisel    Round Nose Punch

### Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16"	15 ft/lbs	20 ft/lbs	12MM	55ft/lbs	75ft/lbs
3/8"	30 ft/lbs	35 ft/lbs	14MM	85ft/lbs	120ft/lbs
7/16"	45 ft/lbs	60 ft/lbs	16MM	130ft/lbs	165ft/lbs
1/2"	65 ft/lbs	90 ft/lbs	18MM	170ft/lbs	240ft/lbs
9/16"	95 ft/lbs	130 ft/lbs			
5/8"	135 ft/lbs	175 ft/lbs			
3/4"	185 ft/lbs	280 ft/lbs			

## INSTALLATION INSTRUCTIONS

**STEP 1:** Jack up front of vehicle so that front wheels are off the ground. Support vehicle with jack stands.

**STEP 2:** Remove front wheels. (21mm deep well socket)

**STEP 3: IMPORTANT: (2011-up if equipped) Disconnect EPAS (Electronic Power Assist Steering) plugs from EPAS module. Module is located on steering assembly near front differential. Must be disconnected BEFORE installation.**

**STEP 4:** Support knuckle with jack stand and remove upper ball joint nut. (21mm wrench) Hit the knuckle with hammer on the side to separate the ball joint from the knuckle, but don't let the knuckle to pull out so far that the shaft pulls out of the differential.

**STEP 5:** Remove nut from the steering linkage. (21mm wrench) Hit the side of the knuckle with hammer where the steering linkage is connected and remove from knuckle. Push the linkage forward until out of the way. (Save factory hardware)

**STEP 6:** Remove sway bar nut and bushings. (15mm wrench - Save factory hardware)

**STEP 7:** Remove nuts on upper strut tower that holds assembly in place - one nut may be left on upper bolts to hold strut in place. (15mm wrench)

**STEP 8a:** 04-13 Models - Remove strut bolt from lower control arm. Remove strut assembly from vehicle. Make note of direction of lower bolt and save for reinstallation. (29mm Socket and 1 1/16" Wrench)

**STEP 8b:** 2014 Models - Remove lower strut nuts from underside of lower control arm. Use air chisel with round nose punch to dislodge studs from strut bar pin. Remove strut assembly from vehicle. (18mm Socket - Save factory hardware)

**STEP 9:** Insert included 3/8"x2" bolts into hex-head holes in strut spacers so heads sit flush with surface. (may require light tap to seat bolt head in flush in hole)

**STEP 10:** Install new strut spacer on strut using factory hardware. (9/16" Socket - Torque to 30 ft/lbs)

**STEP 11:** Install strut assembly into strut tower. Secure with included 3/8" flange lock nuts. (9/16" Wrench - Torque to 30 ft/lbs)

**STEP 12a:** 04-13 Models - Install lower strut bolt in original direction. (29mm Socket and 1 1/16" Wrench - Torque to factory specs)

**STEP 12a:** 2014 Models - Install factory studs back into bar pin on lower mount of strut. Hitting top of strut with hammer may be required to seat splines, then tighten factory nuts. (18mm Socket)

**STEP 13:** Raise lower control arm, connect upper ball joint on upper control arm to spindle and torque to factory specs. (21mm wrench) Use 3/8" wrench to keep ball joint from turning while tightening,

**STEP 14:** Reinstall steering linkage nut. (21mm wrench)

**STEP 15:** Repeat steps 4-14 on opposite side of vehicle

## **INSTALLATION INSTRUCTIONS** *Continued*

**STEP 16:** Reinstall sway bar bushings and nut. (15mm wrench and factory hardware) Torque to factory specs.

**STEP 17:** Reinstall front wheels. (21mm deep well socket)

**STEP 18:** Reconnect EPAS plugs (if removed)

**STEP 19:** Jack up vehicle and remove jack stands. Lower vehicle to floor. Torque all bolts to factory specs.

**STEP 20:** Have alignment done to factory specifications by a certified alignment professional.

## **POST-INSTALLATION**

**STEP 1:** Check for proper torque on all fasteners. Check steering for proper working order and check for interference. Test brake system. Check clearance between all rotating, mobile, fixed and hot parts.

**STEP 2:** Check distance between tire sidewall and the brake hose during full-turn to full-turn steering sweep. Do not skip this step! Any contact may result in component failure.

**STEP 3:** Readjust headlights to proper alignment.

**MAINTENANCE:** After 500 miles, re-torque all fasteners. (Recommended every 1000 miles thereafter) Have all suspension, driveline and steering components inspected by a certified technician during routine maintenance (Recommended every 3000 miles)