

Parts:

2 - Front Strut Extensions
6 - 10mm Washers
6 - 10mm Lock Nuts
6 - Threaded studs
6 - 10mm Nuts (2015)

F150 2WD/4WD 2" Leveling Strut Extension (Aluminum)

PRE-INSTALLATION

Professional installation by a certified technician is strongly recommended.

Not responsible 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: This vehicle requires 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
18mm Socket

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) Remove front skid plate if equipped. (15mm socket)

STEP 3: IMPORTANT: 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: Remove nut from tie rod on knuckle. (21mm wrench) Use appropriate tool to remove tie rod from knuckle. Move linkage forward to make room. (save factory hardware)

STEP 5: Remove ABS bracket from knuckle. (8mm socket) Remove brake line bracket. (10mm socket)

STEP 6: Remove caliper bolts. (18mm socket) Remove dust shield bolts. (8mm socket) Remove ABS wire from knuckle. (5mm allen wrench) Disconnect vacuum line.

STEP 7: Pull off axle dust cap with pliers. Remove axle nut. (15mm socket)

STEP 8: Remove sway bar nut. (18mm wrench - save factory hardware)

STEP 9: Loosen, but do not remove, lower control arm bolts. (21mm wrench - 1 1/16" socket)

STEP 10: Support knuckle with jack stand and remove upper control arm nut. (18mm wrench) Use appropriate tool to separate the ball joint from the upper control arm, but don't let the knuckle to pull out so far that the shaft pulls out of the differential.

STEP 11: Remove lower strut nuts from underside of lower control arm. (18mm socket - save factory hardware)

STEP 12: Remove nuts on upper strut tower that holds assembly in place. (18mm wrench)

STEP 13: Lower jack to let lower control arm and knuckle swing down. Remove strut from vehicle.

STEP 14: Place bar pin of lower strut mount in vise. Put nuts on end of studs and tap with hammer to remove studs from bar pin. (Save factory hardware)

STEP 15: Install threaded studs up through bottom of new spacer. (Flat side down) Use washers and nuts to pull studs into place.

STEP 16: Install new strut spacer on strut and secure with factory hardware (2014 Model) or included 10mm nuts (2015 Model) and torque to 30 ft/lbs

STEP 17: Reinstall strut assembly in vehicle and secure with included lock washers and nuts. (17mm wrench)

STEP 18: Reinstall factory studs in bar pin of lower strut mount. (Tap with hammer to seat splines) Secure to lower control arm with factory nuts. (18mm socket)

STEP 19: Raise lower control arm with jack and connect upper ball joint on upper control arm to spindle, using 3/8" wrench to hold ball joint if it spins while tightening. (18mm wrench - Torque to factory specs)

STEP 20: Reinstall axle nut (15mm socket), install axle dust cap and steering linkage nut. (21mm wrench)

INSTALLATION INSTRUCTIONS *Continued*

- STEP 21:** Reinstall brake rotor and brake caliper (Factory hardware - 18mm socket)
- STEP 22:** Reinstall ABS lines and vacuum lines on knuckle.
- STEP 23:** Repeat steps 4 - 22 on opposite side of vehicle.
- STEP 24:** Reinstall sway bar with factory hardware. (18mm wrench - Torque to factory specs)
- STEP 25:** Reinstall wheels and tires. (21mm deep-well socket)
- STEP 26:** Reconnect EPAS plugs (if removed)
- STEP 27:** Jack up vehicle and remove jack stands. Lower vehicle to floor. Torque all bolts to factory specs.
- STEP 28:** 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:** Adjust 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)