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# 2004-2008 Ford F150 2WD / 4WD 3" Front Strut Suspension Lift Installation Instructions

### Required Tools List:

- SAE Hex Key & SAE Sockets \ Wrenches  
(5/32" Hex Key Socket & 9/16", 7/8", 1-1/16" & 1-3/16")
- Metric Hex Key & Metric Sockets \ Wrenches  
(15mm, 18mm & 21mm)
- Strut Spring Compressor
- Ball Peen Hammer
- Wheel Chock
- Jack Stands
- Torque Wrench
- Safety Glasses
- Floor Jack
- Paint Marker
- Measuring Tape



Before beginning installation, read these instructions & enclosed driver's WARNING NOTICE thoroughly & completely. Also affix WARNING decal in passenger compartment in clear view of all occupants. Please refer to Parts List to insure that all parts & hardware are received prior to disassembly of vehicle. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain needed items. If you have any questions or reservations about installing this product, contact SKYJACKER® Technical Assistance at 318-388-0816.

Make sure you park vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from factory, but is usually not noticed until a lift kit has been installed which makes difference more visible. Using a measuring tape, measure front & rear (both sides) from ground up to center of fender opening above axle. Record this information below for future reference.

Driver Side Front:	_____ / _____	Passenger Side Front:	_____ / _____
	BEFORE / AFTER		BEFORE / AFTER
Driver Side Rear:	_____ / _____	Passenger Side Rear:	_____ / _____
	BEFORE / AFTER		BEFORE / AFTER

### Important Notes:

- This Suspension Lift is NOT Designed to Fit the Following Models:
  - 2004 Ford F150 Heritage Models.
- If Larger Tires (10% More Than the OEM Diameter) Are Installed, Speedometer Recalibration Will Be Necessary. Contact Your Local FORD Dealer or an Authorized Skyjacker® Dealer for Details.
- After Installation, a Qualified Alignment Facility Is Required to Align the Vehicle to the OEM Specifications.

**Component Box Breakdown:****Part # F430STB**

Item #	Description	Qty
F423ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1

**Part # F430STBB**

Item #	Description	Qty
F423ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1
B8560 (REAR)	BLACK MAX SHOCK W/BLK BOOT	2

**Part # F430STBH**

Item #	Description	Qty
F423ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1
H7060 (REAR)	HYDRO SHOCK W/RED BOOT	2

**Part # F430STBM**

Item #	Description	Qty
F423ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1
M9560 (REAR)	M95 MONOTUBE SHOCK	2

**Part # F430STBN**

Item #	Description	Qty
F423ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1
N8060 (REAR)	NITRO SHOCK W/RED BOOT	2

**Hardware Bag Breakdown:****Part # HB-916**

Item #	Description	Qty
916FTN	9/16 NYLON INSERT LOCK NUT	8

**Component Box Breakdown:****Part # F432STB**

Item #	Description	Qty
F4132ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
EPS3456	F150 STRUT POLY SPACER	2
RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1

**Part # F432STBB**

Item #	Description	Qty
F4132ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
EPS3456	F150 STRUT POLY SPACER	2
RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1
B8560 (REAR)	BLACK MAX SHOCK W/BLK BOOT	2

**Part # F432STBH**

Item #	Description	Qty
F4132ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
EPS3456	F150 STRUT POLY SPACER	2
RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1
H7060 (REAR)	HYDRO SHOCK W/RED BOOT	2

**Part # F432STBM**

Item #	Description	Qty
F4132ST-S	F150 STRUT 4WD, SINGLE 2-3"	2
F430CS-S	F150 STRUT METAL SPACER	2
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RBF202	REAR BLOCK, 2" FLAT DUAL PIN	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQ U-BOLT	4
HB-916	HDWR BAG: 9/16 NI LOCK NUT	1
M9560 (REAR)	M95 MONOTUBE SHOCK	2

**Part # F432STBN**

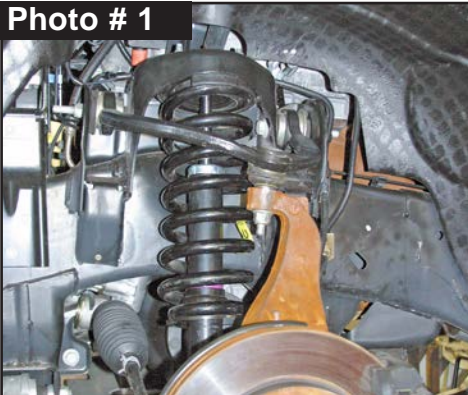
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HB-916	HDWR BAG: 9/16 NI LOCK NUT	1
N8060 (REAR)	NITRO SHOCK W/RED BOOT	2

**Front Installation: Note: Save all factory components & hardware for reuse, unless noted.**

1. With vehicle on flat level ground, set emergency brake & chock rear tires \ wheels.
2. Raise front of vehicle, support frame rails using jack stands at indicated lift points in OEM service manual.

3. Remove the front tires \ wheels using a 21mm socket \ wrench. (See Photo # 1)
4. If equipped with front OEM skid plate, remove skid plate using a 15mm socket \ wrench.
5. Disconnect Electronic Power Assist Steering (EPAS) plugs on steering assembly next to front differential. (See Photo # 2) **Tech Note:** Red safety lock clip must be slid rearward to unlock. Press & hold rearward tang down, grab connector & pull away while from plug-in.
6. Disconnect OEM outer tie rod ends from OEM steering knuckles using a 21mm socket \ wrench. (See Photo # 3) **Note:** It may be necessary to strike the OEM steering knuckles to dislodge the OEM tie rod ends. Be careful not to damage the OEM tie rod ends.

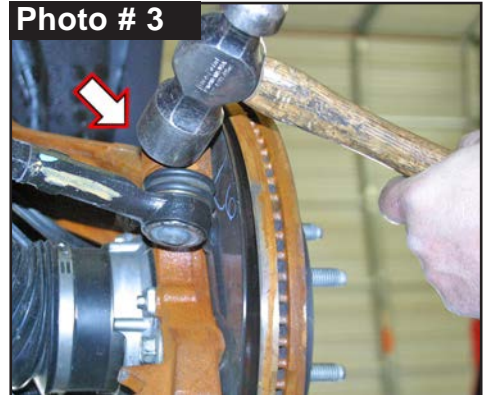
**Photo # 1**



**Photo # 2**



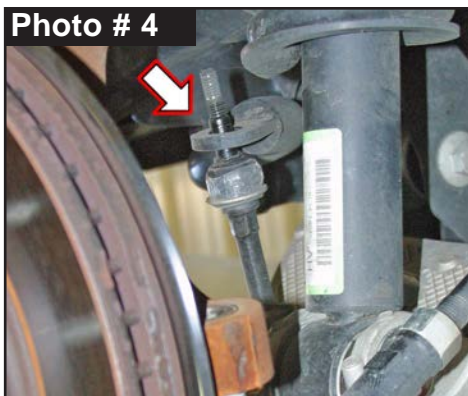
**Photo # 3**



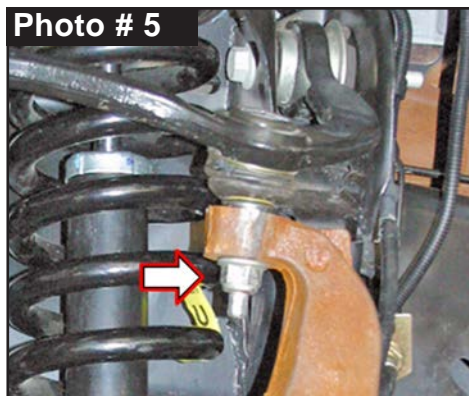
7. Disconnect OEM sway bar end link using a 15mm socket \ wrench. (See Photo # 4)
8. Support the bottom of OEM Lower Control Arm (LCA) with jack. Loosen, but do not remove upper OEM ball joint nut from OEM knuckle using a 21mm socket \ wrench. (See Photo # 5) To unseat upper OEM ball joint taper, strike ball joint boss of knuckle using ball peen hammer to dislodge. **Note:** ONLY strike knuckle portion only. Remove nut & remove ball joint from knuckle. **Tech Note:** You may need to pry upper control arm down to disconnect ball joint.
9. Ease knuckle to rest back away from front strut. **CAUTION:** Do not let knuckle fall to side abruptly. It could cause damage to brake lines or pull CV axle shaft out. **Note:** Do Not Overextend CV Axle Shaft. **Tech Note:** Use a bungee or ratchet strap to secure knuckle assembly from overextending.

Remove OEM lower strut mount bolt from OEM LCA using a 1-1/16" & 1-3/16" socket \ wrench. Remove bolt. (See Photo # 6)

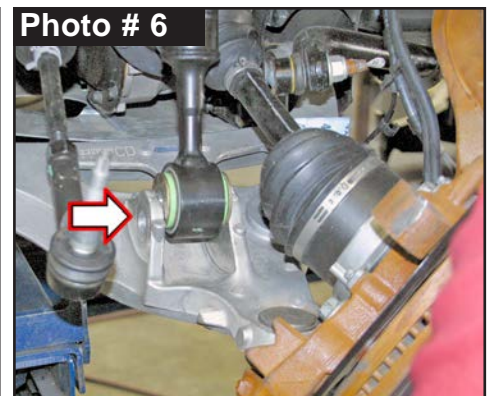
**Photo # 4**



**Photo # 5**



**Photo # 6**



10. Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 15mm socket \ wrench. (See Photo # 7) **Note:** Do Not remove center strut rod nut.

Remove OEM strut assembly.

11. **Note:** For strut alignment purposes, mark top hat upper strut mount isolator, rubber isolator & coil spring at top of strut. (See Photo # 8)

Compress coil spring on strut assembly with a suitable strut spring compressor & remove OEM upper strut isolator nut using a 9/16" socket \ wrench. (See Photo # 8) Remove OEM strut from OEM coil spring.

**Tech Note:** Leave OEM rubber isolator in place on top of OEM coil spring.

12. Locate Skyjacker Replacement Strut. Part # F423ST-S 4WD Models. Part # F4132ST-S 2WD Models. At the upper hex portion of the shaft, rotate the shaft of the Skyjacker strut 'Counter Clockwise' in order to unlock & extend the shaft.

**NOTE: 4WD Models: Proceed to Step 13. 2WD Models: Proceed to Step 15.**

13. Assemble Skyjacker strut. Slide supplied Skyjacker # F430CS-S Metal Coil Spring Spacer, then Coil Spring Pad onto shock cylinder. (See Photo # 9). Next slide supplied Skyjacker Bump Stop onto shaft.

14. Align OEM top hat upper strut mounting isolator, rubber isolator & coil spring with previous marks & assemble Skyjacker \ OEM strut assembly with OEM hardware using a 9/16" socket \ wrench. (See Photo # 10) Proceed to Step 18.

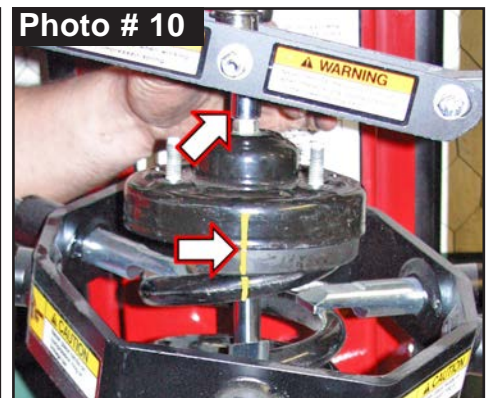
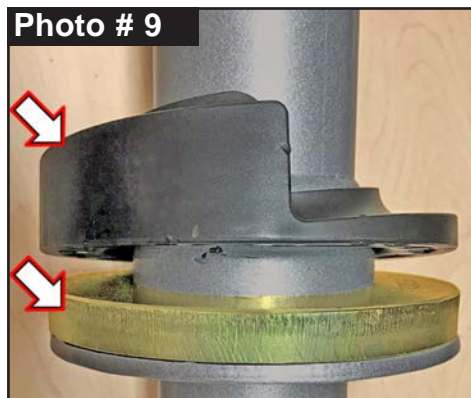
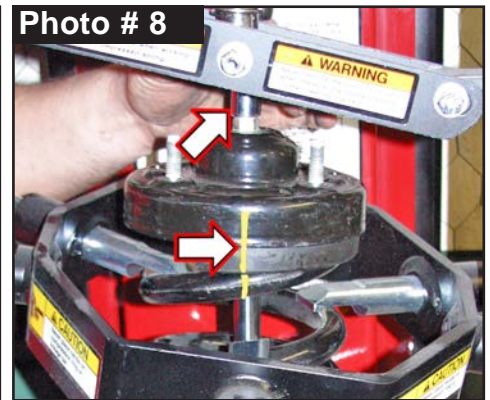
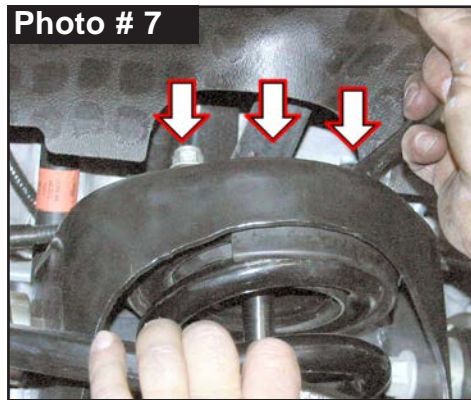
15. Assemble Skyjacker strut. Slide supplied Skyjacker # F430CS-S Metal Coil Spring Spacer, then Coil Spring Pad onto shock cylinder. (See Photo # 9). Next slide supplied Skyjacker Bump Stop onto shaft.

16. Remove OEM rubber isolator from OEM top hat upper strut mounting isolator.

Install Skyjacker Polyurethane Spacer into the OEM strut mount. (See Photo # 11)

**Note:** It may be necessary to lubricate or to use a press to get the new polyurethane spacer over the OEM strut mount cup.

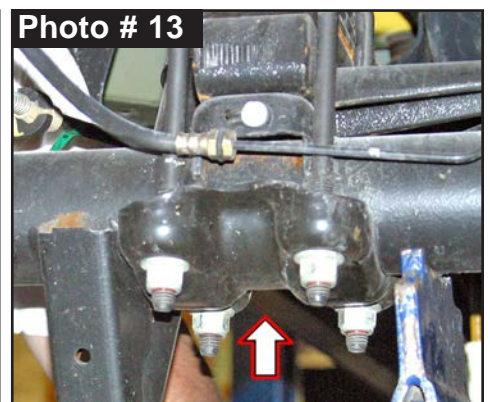
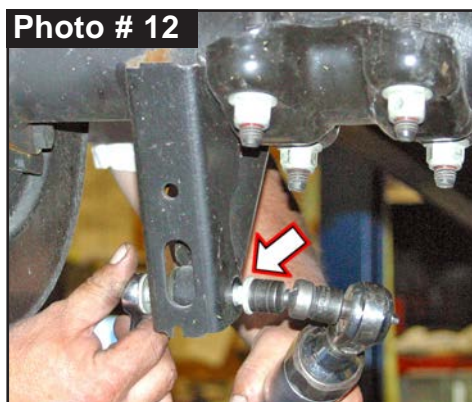
17. Align OEM top hat upper strut mounting isolator, new polyurethane spacer & coil spring with previous marks & assemble Skyjacker \ OEM strut assembly with OEM hardware using a 9/16" socket \ wrench. (See Photo # 10) Proceed to Step 18.



18. While supporting OEM LCA, install Skyjacker\OEM strut assembly into upper strut mount at frame with OEM hardware using a 15mm socket \ wrench. (See Photo # 7)  
Secure, but **Do Not Completely Tighten** strut hardware at this time. To set bushings properly for ride height, these will be tightened once vehicle is on ground with full vehicle weight on tires \ wheels.
19. Install Skyjacker \ OEM strut assembly into lower strut mount at OEM LCA with OEM hardware. (See Photo # 6) Secure, but **Do Not Completely Tighten**.
20. While supporting OEM LCA, connect OEM UCA to steering knuckle with OEM hardware using a 21mm socket \ wrench. (See Photo # 5) **CAUTION:** Ensure castle nut & cotter pin align properly into UCA ball joint. Never loosen castle nut to align cotter pin; always tighten.
21. Connect OEM tie rod end to OEM steering knuckle with OEM hardware using a 21mm socket \ wrench. (See Photo # 3) Torque 111 ft-lbs.
22. Connect OEM sway bar end link to sway bar with OEM hardware using a 15mm socket \ wrench. (See Photo # 4)
23. Connect EPAS plugs on steering assembly. (See Photo # 1) **Tech Note:** Press & hold rearward black tang down, grab connector & push plug-in. Push red slide into lock position. **Note:** Pull out on connector to verify that it is securely plugged in properly.
24. If equipped with front OEM skid plate, install skid plate using a 15mm socket \ wrench.
25. Install front tires \ wheels using a 21mm socket & lower the front vehicle to the ground.

**Rear Installation: Note: Save all factory components & hardware for reuse, unless noted.**

1. Chock front tires \ wheels, raise rear of vehicle & support frame rails using jack stands at indicated lift points in service manual.
2. Remove rear tires \ wheels using a 21mm socket.
3. Support rear axle with a hydraulic jack. Allow ample room to lower rear axle.
4. Remove OEM rear shock using a 15mm & a 18mm socket \ wrench. (See Photo # 12)
5. Remove OEM u-bolts using a 21mm socket \ wrench. (See Photo # 13) Discard u-bolts & hardware. Retain lower OEM u-bolt plate.
6. While checking for appropriate slack in ABS lines, brake lines, rear emergency brake cables, & etc. Lower axle away from leaf springs to allow clearance for block.

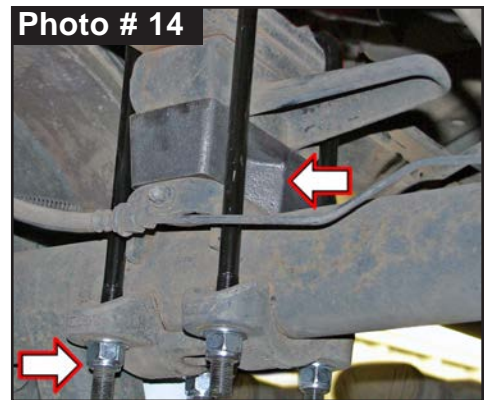


Clean spring pads of all debris. Position Skyjacker # RBF202 2" Flat Block with Dual Pin on top of axle pad. (See Photo # 14) **Tech Note:** If your model has a OEM block with built-in bump stop, OEM bump stop goes on top as shown.

Raise axle to mate leaf springs to lift blocks.

**Note:** Be sure that leaf spring center bolts head seat properly into block & that block pins seat properly into top of axle pad.

7. Install Skyjacker 9/16" U-Bolts over OEM top plate\leaf springs down into OEM u-bolt plate. Install supplied 9/16" Nylon Insert Nuts using a 7/8" socket\wrench. (See Photo # 14)  
Torque u-bolts evenly using an 'X' crisscross tightening sequence. Torque 125 ft.-lbs.



**NOTE: Kit With HYDRO, NITRO, Black MAX, or M95 Monotube: Proceed to Step 8.**

**Kit With ADX 2.0 Remote Reservoir: Proceed to Step 9.**

8. Install Skyjacker rear shock. Connect upper shock mount with OEM hardware using a 15mm & a 18mm socket\wrench. Connect lower shock mount with OEM hardware using a 15mm & a 18mm socket\wrench. Secure, but **Do Not Completely Tighten** at this time.
9. Locate Skyjacker ADX rear shock. Loosely assemble two (2) supplied reservoir clamps with two (2) supplied hex head bolts using a 5/32" Hex Key socket. Position clamp into place around shock body & reservoir cylinder. Secure, but **Do Not Completely Tighten** at this time.

Install Skyjacker ADX rear shock. Connect upper shock mount with OEM hardware using a 15mm & a 18mm socket\wrench. Connect lower shock mount with OEM hardware using a 15mm & a 18mm socket\wrench. Secure, but **Do Not Completely Tighten** at this time.

**CAUTION:** Make Sure ADX Shock Reservoir\Reservoir Hose Does Not & Will Not Make Contact with Anything Throughout the Full Travel Cycle of the Suspension. (frame, frame brackets, springs, brake lines, exhaust, etc.) For proper clearance, it may be necessary to change the location or orientation of the reservoir on the shock body. Use a 5/32" Hex Key socket to loosen clamps to position reservoir cylinder as needed.

10. Install the rear tires\wheels using a 21mm socket & lower the rear of the vehicle to the ground.

## **Final Front Steps:**

1. Start vehicle. Make sure there are no dash lights pertaining to suspension.
2. Jounce vehicle a couple of times. This will help suspension settle to new ride height. Cycle steering lock-to-lock & check all components for proper operation & clearances. Pay special attention to clearance between tires\wheels, ADX Shocks & Reservoirs, control arms, brake hoses, ABS wiring, etc.

If Suspension Component Contact or Interference is Present, Lower the Coil Spring Seat by Removing a Coil Spring Seat Spacer Ring Until No Contact or Interference is Present.

3. **Front Tighten & Torque Sequence.**

Skyjacker\OEM strut to upper mount using a 15mm socket\wrench. Torque 30 ft.-lbs.

Skyjacker\OEM strut to lower mount using a 1-1/16" & 1-3/16" socket\wrench. Torque 351 ft.-lbs. ('Ford Torque Specifications' for this bolt).

Tie rod end to steering knuckle using a 21mm socket\wrench. Torque 111 ft.-lbs.

Sway bar end link to sway bar using a 15mm socket\wrench. Torque 35 ft.-lbs.

#### 4 Rear Tighten & Torque Sequence.

Rear shock absorber upper mount using a 15mm & a 18mm socket \wrench. Torque 65 ft-lbs.  
Rear shock absorber lower mount using a 15mm & a 18mm socket \wrench. Torque 65 ft-lbs.  
ADX Reservoir clamp. Double check position & clearance. Tighten with 5/32" Hex Key socket.  
Torque u-bolts evenly using an 'X' crisscross tightening sequence. Torque 125 ft.-lbs.

#### **Final Notes:**

- After installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for proper torque specifications. (**Note:** Do not re-tighten nuts & bolts where thread lock compound was used.)
- With vehicle placed on ground, cycle steering lock to lock & inspect steering, suspension, brake lines, front & rear drivelines, fuel lines & wiring harnesses for proper operation, tightness & adequate clearance.
- Have headlights readjusted to proper settings.
- Have a qualified alignment center align vehicle to OEM specifications.
- After first 100 miles, check all hardware for proper torque & periodically thereafter.

<b>TORQUE SPECIFICATIONS</b>					
<b>INCH SYSTEM</b>			<b>METRIC SYSTEM</b>		
<b>Bolt Size</b>	<b>Grade 5</b>	<b>Grade 8</b>	<b>Bolt Size</b>	<b>Class 8.8</b>	<b>Class 10.9</b>
5/16	180 in-lbs	240 in-lbs	6MM	102 in-lbs	108 in-lbs
3/8	30 ft-lbs	35 ft-lbs	8MM	16 ft-lbs	23 ft-lbs
7/16	45 ft-lbs	60 ft-lbs	10MM	32 ft-lbs	45 ft-lbs
1/2	65 ft-lbs	90 ft-lbs	12MM	55 ft-lbs	75 ft-lbs
9/16	95 ft-lbs	130 ft-lbs	14MM	85 ft-lbs	120 ft-lbs
5/8	135 ft-lbs	175 ft-lbs	16MM	130 ft-lbs	165 ft-lbs
3/4	185 ft-lbs	280 ft-lbs	18MM	170 ft-lbs	240 ft-lbs

**The Above Specifications Are Not to Be Used  
When the Bolt Is Being Installed With a Bushing.**

**Seat Belts Save Lives, Please Wear Your Seat Belt.**



**JESUS  
FORGIVES  
ROCKS  
DON'T**

### *Jesus Christ Died For You.*

John 3:16

For God so loved the world that He gave His only Son, so that everyone who believes in Him should not perish, but have everlasting life.  
Romans 3:23

For all have sinned; all fall short of God's glorious standard.  
Ephesians 2:8

God saved you by his special favor when you believed. And you can't take credit for this; it is a gift from God.  
Psalms 18:2

The Lord is my Rock, my fortress, and my savior; my God is my Rock, in whom I find protection. He is my shield, the strength of my salvation, and my stronghold.  
Romans 10:9-10

That if you shall confess with thy mouth the Lord Jesus, and shall believe in your heart that God hath raised him from the dead, you shall be saved. For with the heart man believeth unto righteousness; and with the mouth confession is made unto salvation.

#### Pray This Simple Prayer:

God, I come to You admitting I have sinned against You and I need you to take control of my life. The Bible says anyone who calls on the name of the Lord will be saved. I am calling on You, Jesus. I ask that You come live in my heart and be the Lord over my life today. I do believe You died on the cross for me and came back to life to give me life! Thank You, Lord Jesus for a new life in You!

Now, go and tell somebody about your new life in Jesus, get a Bible, begin to read it, and go to a Bible believing church.

If you would like someone to pray with you, call Kenneth Copeland Ministries anytime at 800-600-7395.

To listen to commercial free Christian radio on the web, go to [www.887fm.org](http://www.887fm.org)

### *Jesús murió por ti.*

Juan 3:16

“Porque tanto amó Dios al mundo, que dio a su Hijo unigénito, para que todo el que cree en él no se pierda, sino que tenga vida eterna.”  
Romanos 3:23

“Pues todos han pecado y están privados de la gloria de Dios.”  
Efesios 2:8

“Porque por gracia ustedes han sido salvados mediante la fe; esto no procede de ustedes, sino que es el regalo de Dios.”  
Salmos 18:2

“El Señor es mi roca, mi amparo, mi libertador; es mi Dios, el peñasco en que me refugio. Es mi escudo, el poder que me salva, ¡mi más alto escondite!”  
Romanos 10:9-10

“9 Que si confi esas con tu boca que Jesús es el Señor, y crees en tu corazón que Dios lo levantó de entre los muertos, serás salvo. 10 Porque con el corazón se cree para ser justifi cado, pero con la boca se confi esa para ser salvo.”

#### Ahora dí esta simple oración:

Dios, vengo a Ti y admito que he pecado contra Ti, necesito que tomes el control de mi vida. La Biblia dice que todo aquel que invoca el nombre del Señor escapará con vida. En este momento yo clamo ante Ti, Jesús; te pido que vengas a vivir en mi corazón y que tomes el control de mi vida. ¡Yo creo que tu moriste en la cruz y resucitaste para darme vida! ¡Gracias Señor Jesús, por una nueva vida que tengo en Ti! Amen.

Ahora ve y dile a alguien sobre la nueva vida que tienes en Cristo. Compra una Biblia y empieza a leerla. Busca una Iglesia que cree en la Biblia y hazte parte de esa Iglesia.

Si te gustaría orar con alguien, puedes llamar a este número 800-600-7395

Puedes ir a este sitio de Internet para escuchar música Cristiana sin anuncios, [www.887fm.org](http://www.887fm.org)

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