

INSTALLATION INSTRUCTIONS

FTS21302		3" CANYON/COLORADO UNIBALL UCA KIT
1	FT21001	UPPER CONTROL ARM (DRIVER)
1	FT21002	UPPER CONTROL ARM (PASSENGER)
1	FT21003	HARDWARE SUBASSEMBLY

FT21003		HARDWARE SUBASSEMBLY
4	FT1037	BUSHING
4	FT1038	BUSHING
1	FT21011	HARDWARE KIT
1	FT21302i	INSTRUCTIONS
4	FT646	SLEEVE
4	FT84	GREASE FITTING
2	FT90152	MISALIGNMENT SPACER (UPPER)
2	FT90153	MISALIGNMENT SPACER (LOWER)
1	FT90154	BEARING CAP KIT
2	FT94538	UNIBALL ADAPTER PIN L
1	FTAS12	STICKER
1	FTAS16	DRIVER WARNING DECAL
1	FTLUBE	URETHANE LUBE PACKET
1	FTREGCARD	REGISTRATION CARD

FT21011 - HARDWARE KIT		LOCATION
4	1/4-20 C-LOCK NUT	
4	1/4-20 X 3/4" HEX BOLT	
2	1/2-20 X 1" FERRY CAP BOLT	
2	9/16" SAE FLAT WASHER	
2	9/16-18 C-LOCK NUT	
4	CUSHIONED CLAMP	
1	THREAD LOCKING COMPOUND	

2024 GM CANYON/COLORADO 4WD 3" UNIBALL UPPER CONTROL ARM KIT

FTS21302

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Fabtech Motorsports | 2213 Industrial Park Rd. Lancaster, SC 29720

Tech Line: 909-597-7800 | Web: www.fabtechmotorsports.com

- TOOL LIST -

Required Tools (Not Included)

Basic Hand Tools
Floor Jack
Jack Stands
Assorted Metric and S.A.E sockets, and Allen wrenches
Torque Wrench

- PRE-INSTALLATION NOTES -

For technical assistance call: **909-597-7800** or e-mail: **info@fabtechmotorsports.com**

READ THIS BEFORE YOU BEGIN INSTALLATION -

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Read all instructions thoroughly from start to finish before beginning the installation. If these instructions are not properly followed severe frame, driveline and / or suspension damage may occur.

Check your local city and state laws prior to the installation of this system for legality. Do not install if not legal in your area.

Prior to the installation of this suspension system perform a front end alignment and record. Do not install this system if the vehicle alignment is not within factory specifications. Check for frame and suspension damage prior to installation.

The installation of this suspension system should be performed by two professional mechanics. This suspension must be installed with Fabtech shock absorbers.

Installation of all fasteners requires the use of provided thread locking compound with proper torque values as indicated throughout the installation. Apply thread locking compound upon the final torque of the fastener.

WARNING- Installation of this system will alter the center of gravity of the vehicle and may increase roll over as compared to stock. Extreme care should be taken to operate the vehicle safely at all times to prevent rollover or loss of control resulting in serious injury or death.

Vehicles that receive oversized tires should check ball joints, uniballs, tie rods ends, pitman arm and idler arm every 2500-5000 miles for wear and replace as needed.

Verify differential fluid is at manufactures recommended level prior to kit installation. Installation of the kit will reposition the differential and the fill plug hole may be in a different position. (For example, if the manufacture recommends 3 quarts of fluid, make sure the diff has 3 quarts of fluid). Check your specific manual for correct amount of fluid.

Read all warnings and warranties on the last page of these instructions before starting installation.

FOOTNOTES -

- Some models may not sit level after install

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- INSTRUCTIONS -

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.
2. Starting on the drivers side. Disconnect the sway bar from the lower control arm and the Tie rod end from the factory knuckle. Disconnect the ABS/Bracke line from the factory upper control arm. Loosen but do not remove the upper ball joint nut. Disconnect the upper ball joint from the knuckle by striking the knuckle with a large hammer next to the upper ball joint on the knuckle to dislodge the ball joints. Use care not to hit the ball joints when removing. **SEE FIGURE 1**

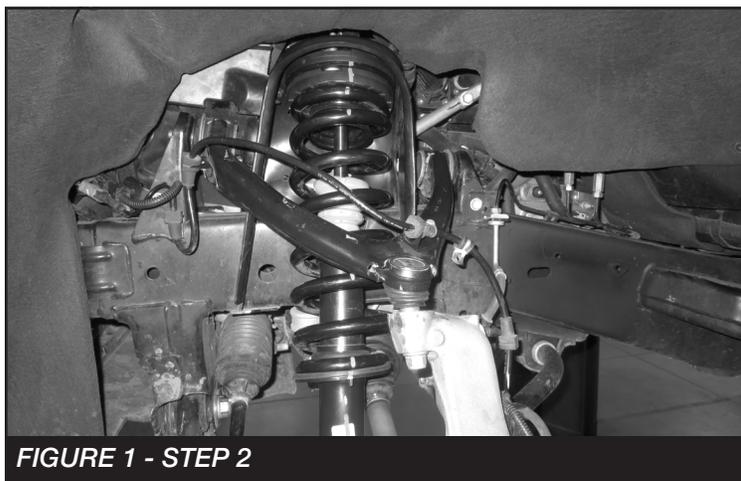


FIGURE 1 - STEP 2

3. Remove the upper control arm and retain the factory hardware.
4. If installing Dirt Logic Coilovers or Fabtech Spacer kit. Do so with the provided instructions at this time. Then, return to Step 8 on these instructions.
5. Locate the new Fabtech control arms, two (FT1037) bushings, two (FT1038) bushings, two (FT84) grease zerks, and two (FT646) sleeves. Install the components into the new control arms. **SEE FIGURE 2**

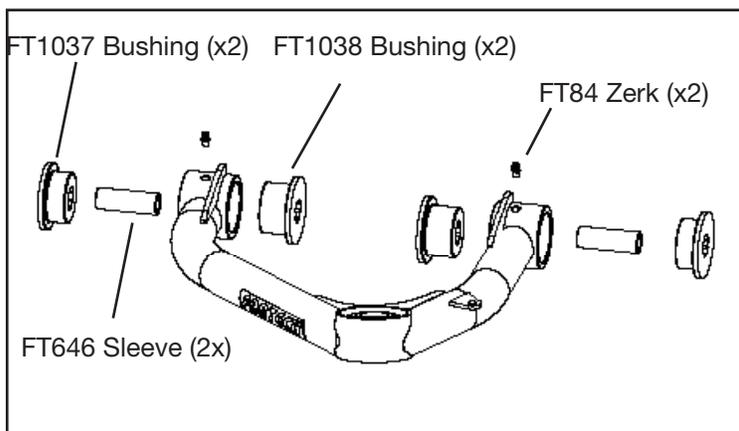


FIGURE 2 - STEP 5

6. Install the upper arm using the factory hardware. **NOTE:** Install the factory bolts from the inside of the bucket. **NOTE:** When installing the arm on the truck make sure the barrel gussets are up. Torque to 128 ft-lbs. **SEE FIGURES 3-5**

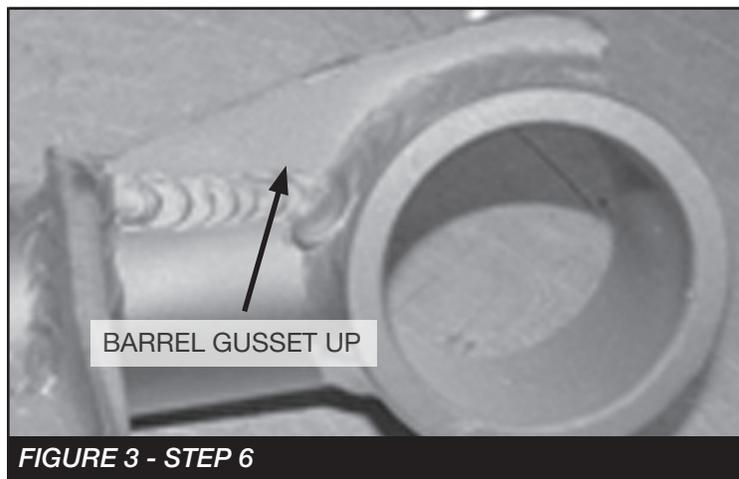


FIGURE 3 - STEP 6

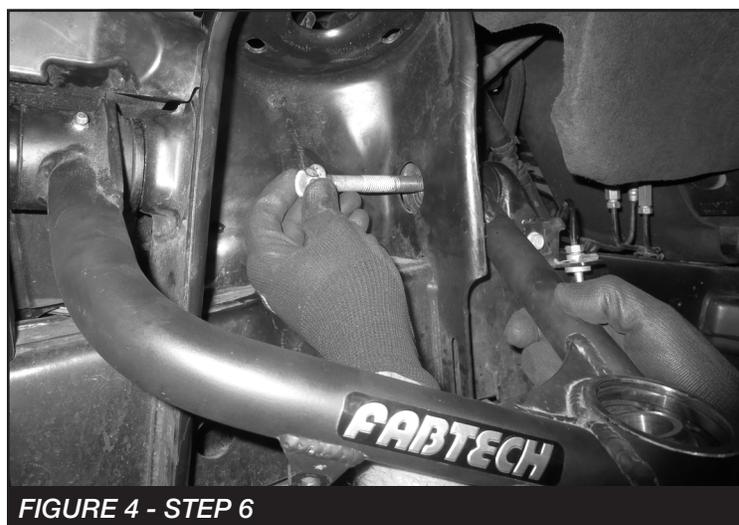


FIGURE 4 - STEP 6



FIGURE 5 - STEP 6

7. Install FT90153 (Lower misalignment) onto FT94538 (Uniball Pin). Then, install into the factory control arm using the supplied 9/16" nut, washer. Torque the nut to 135 ft-lbs. **SEE FIGURE 6**



FIGURE 6 - STEP 7

8. Attach the new upper control arm to the knuckle by inserting the FT90152 (Upper misalignment) into the uniball bearing then the 1/2-20 - 12 point bolt. Torque to 106 ft-lbs. Install FT90154 (Bearing cap). Torque the control arm pivot bolt to 148 ft-lbs **SEE FIGURES 7-8**



FIGURE 7 - STEP 8

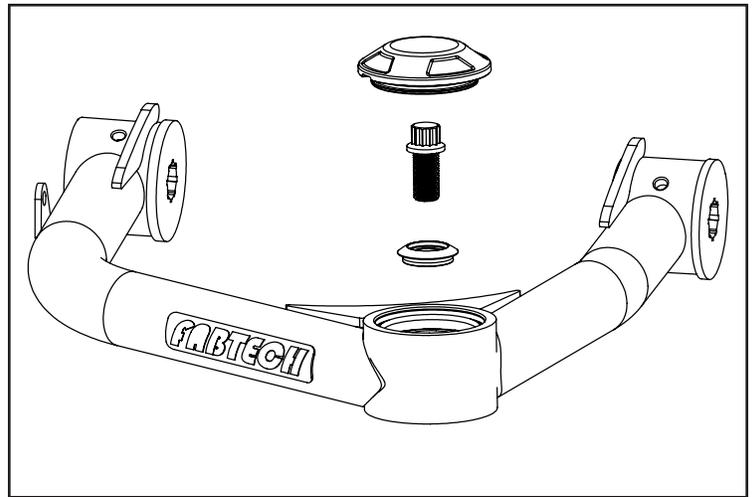


FIGURE 8 - STEP 8

9. Install the ABS line to the new upper control arm using the supplied clamps and 1/4" hardware. Torque to 10 ft-lbs. **SEE FIGURE 9**



FIGURE 9 - STEP 9

10. Repeat steps on the passenger side.
11. Install tires and wheels and torque lug nuts to wheel manufacturer's specifications. Turn front tires left to right and check for appropriate tire clearance. **Note** - Some oversized tires may require trimming of the front bumper & valance.

12. Recheck all bolts for proper torque. **RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER UNTIL TORQUE VALUES ARE RETAINED.**
13. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.
14. Check the fluid in the front and rear differential and fill if needed with factory specification differential oil. **Note - some differentials may expel fluid after filling and driving. This can be normal in resetting the fluid level with the new position of the differential/s.**
15. Check ball joints, uniballs bearings, bushings and all steering components every 2500-5000 miles for wear and replace as required.
16. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.
17. Review all included warnings and warranties with consumer

For technical assistance call: **909-597-7800**

- Product Warranty & Warnings -

Fabtech provides a Limited Lifetime Warranty to the original retail purchaser who owns the vehicle, on which the product was originally installed, for defects in workmanship and materials.

The Limited Lifetime Warranty excludes the following Fabtech items; bushings, bump stops, ball joints, Uniball bearings, tie rod ends, limiting straps, cross shafts, heim joints and driveshafts. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days from the date of purchase for defects in workmanship.

Dirt Logic take apart shocks are considered a serviceable shock with a 1-year warranty against any manufacturer's defects. If a shock fails within the initial year of ownership, the owner must ship the shock to Fabtech for inspection and service. If after examination the shock is determined to have failed due to neglect, damage caused by improper installation, or any reason other than "normal wear and tear," the owner of the shock will be responsible for all service costs. Costs include labor, parts, and shipping. Service seal kits are available separately for future maintenance. All other shocks are covered under our Limited Lifetime Warranty.

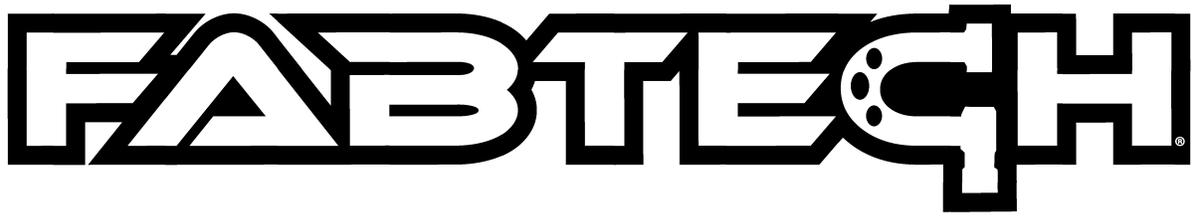
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Installation of most suspension products will raise the center of gravity of the vehicle and will cause the vehicle to handle differently than stock. It may increase the vehicle's susceptibility to a rollover, on road and off road, at all speeds. Extreme care should be taken to operate the vehicle safely at all times to prevent rollover or loss of control resulting in serious injury or death.

Oversized tires and wheels may decrease the vehicle's braking capacity. Drivers should always brake early and be aware of the increased the stopping distance of the vehicle. Drivers should adjust their driving habits to the effectiveness of the braking. Adjust your driving habits to these changes.

Failure to drive safely may result in serious injury or death to driver and passengers. Driver and passengers must ALWAYS wear your seat belts, avoid quick sharp turns and other sudden maneuvers



INSTALLATION INSTRUCTIONS

FTS21304		SPACER KIT
2	FT21008	FRONT UPPER STRUT SPACER
1	FT21009	HARDWARE KIT
2	FT21010	LOWER STRUT SPACER
1	FT21304i	INSTRUCTIONS

FT21009 - HARDWARE KIT		LOCATION
6	M10-1.5 HEX NUT	Strut Spacers
6	M10 FLAT WASHER	
1	THREAD LOCKING COMPOUND	

FTS99100		BLOCK & UBOLT KIT
2	FTBK12	BLOCK 1.0"
4	FT1500U	UBOLT
1	FT916H	UBOLT HARDWARE KIT

FT916H - HARDWARE KIT		LOCATION
8	9/16" WASHERS	
8	9/16-18 NYLOCK NUTS	

2022-2024 GM CANYON/COLORADO 4WD 3" SPACER KIT

FTS21304

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Floor Jack	Torque Wrench
Jack Stands	Die Grinder w/ Cutoff Wheel or Sawzall
Assorted Metric and S.A.E sockets, and Allen wrenches	

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FOOTNOTES -

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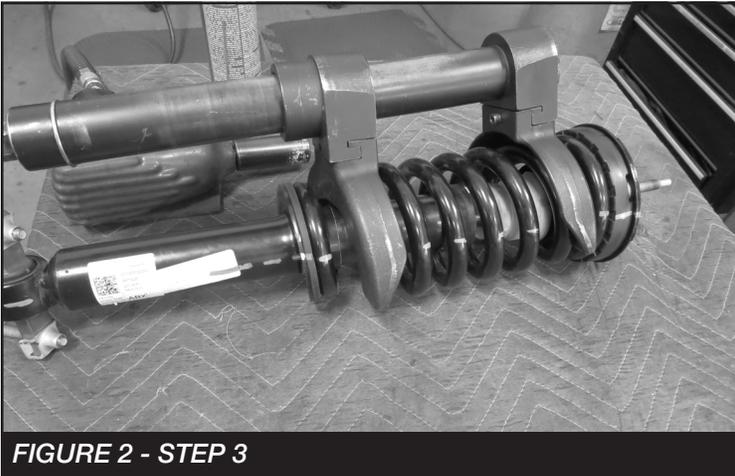
- INSTRUCTIONS -

FRONT SUSPENSION

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.
2. Using a paint pen. Mark the top strut cap and lower strut body to retain the correct orientation. **SEE FIGURE 1**



3. Using a coil spring compressor. Compress the coil enough to relieve pressure on the top mount. Remove and save the top cap nut. Then remove the top mount, coil spring and dust boot. Save all parts. **SEE FIGURES 2-3**



4. Remove the plastic strut body cap. Then, remove the lower coil mount from the strut body. **SEE FIGURES 4-5**



5. Install FT21010 (Lower Spacer) onto the strut. **SEE FIGURES 6-7**



FIGURE 6 - STEP 5



FIGURE 7 - STEP 5

6. Reinstall the lower spring mount, strut cap, dust boot and coil spring. Install the top mount using the factory nut. **NOTE: When tightening make sure the marks on the upper mount, body and lower mount are in line. Torque top nut to 25 ft-lbs. SEE FIGURE 8**

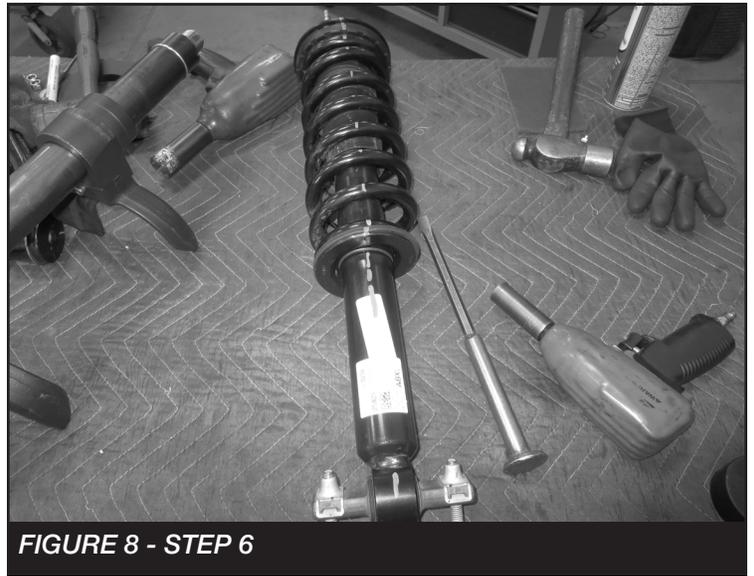


FIGURE 8 - STEP 6

7. Locate FT21008 (coilover spacer) and 10mm c-lock nuts. Install the spacer on to the factory coilover. **SEE FIGURE 9**



FIGURE 9 - STEP 7

8. Using the supplied 10mm hardware, install the coilover in the vehicle. Torque to 52 ft-lbs. **SEE FIGURES 10-11**

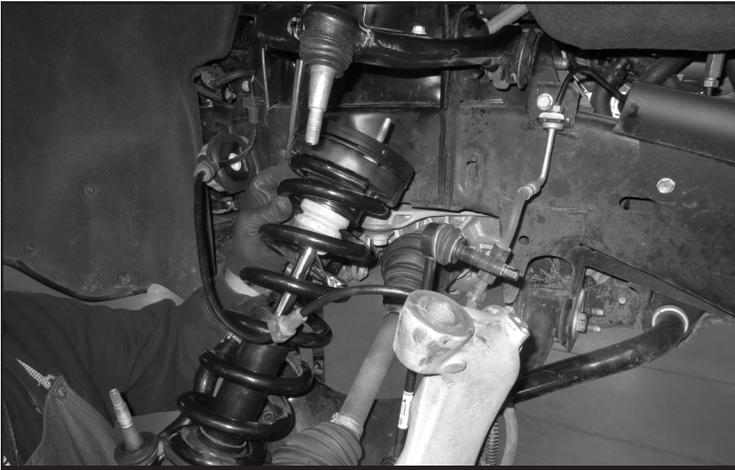


FIGURE 10 - STEP 8

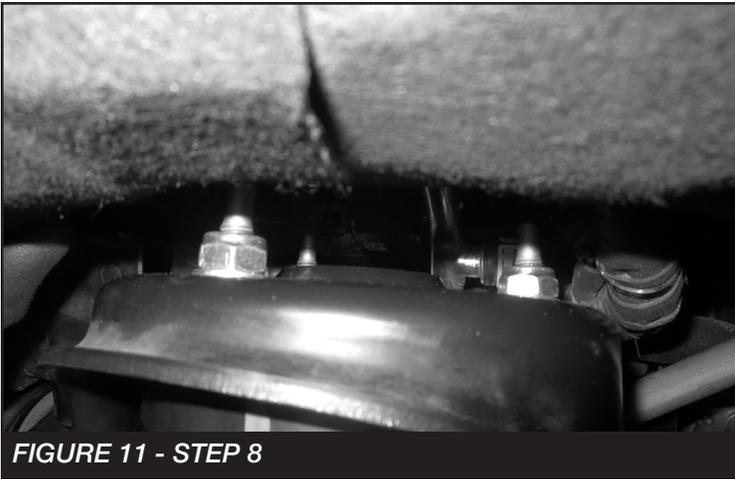


FIGURE 11 - STEP 8

9. Install the lower coilover bolts, torque to 37 ft-lbs. Next reinstall the tie rod and upper ball joint to the knuckle. Torque to 28 ft-lbs **SEE FIGURE 12**

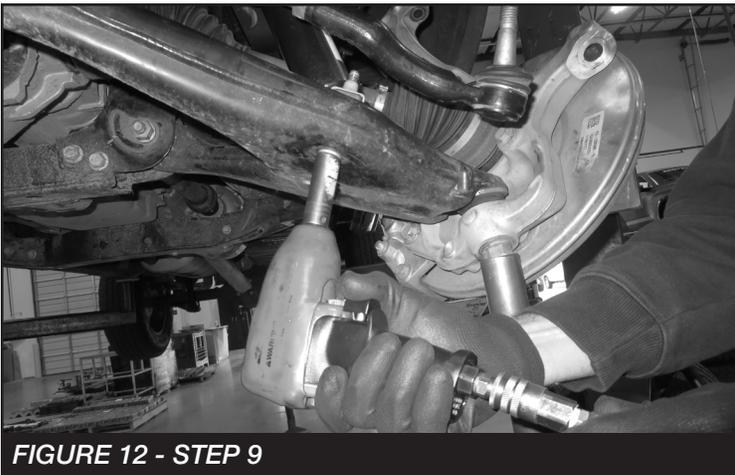


FIGURE 12 - STEP 9

10. Repeat steps 2-9 on the passenger side. Once complete reattach the sway bar. Torque to 85 ft-lbs

11. Install tires and wheels and torque lug nuts to wheel manufacturer's specifications.

- REAR SUSPENSION -

12. Jack up the rear end of the truck and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the rear tires.

13. With the rear axle supported. Disconnect the rear shocks and save hardware. **Do not completely remove from vehicle.** Remove the factory ubolts.

14. Install the new FTBK15 (1.5" Blocks) and FT1500U (ubolts) using the supplied 9/16" nuts and washers. Torque to 130 ft-lbs. **SEE FIGURE 13**



FIGURE 13 - STEP 14

15. Install tires and wheels and torque lug nuts to wheel manufacturer's specifications. Turn front tires left to right and check for appropriate tire clearance. **Note** - Some oversized tires may require trimming of the front bumper & valance.

16. Check front end alignment and set to factory specifications. Readjust headlights.

17. Recheck all bolts for proper torque. **RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER UNTIL TORQUE VALUES ARE RETAINED.**

18. Check ball joints, uniballs bearings, bushings and all steering components every 2500-5000 miles for wear and replace as required.

19. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.

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