



FABTECH GM 1500 Leveling Kit Installation Guide

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FABTECH GM 1500 Leveling Kit



Product Usage Instructions

- Ensure all kit components are present as per the parts list.
- Read all instructions carefully before starting the installation.
- Check local laws for the legality of installation in your area.
- Perform a front-end alignment and record before installing the suspension system.
- Verify differential fluid level meets the manufacturer's recommendations.
- Use the provided thread-locking compound on all hardware during installation.
- Ensure the installation is done by two professional mechanics.
- After installation, check ball joints, uniballs, tie rod ends, pitman arm, and idler arm every 2500-5000 miles for wear and replacement if necessary.
- Avoid installing if not legal in your area.
- Perform regular checks on suspension components for wear and tear.
- Verify vehicle alignment before and after installation.
- Follow the manufacturer's guidelines for tire sizes and trimming requirements.
- Be cautious of the altered center of gravity and potential increase in rollover risk compared to stock setup.

FAQ

- **Q: Can I use this leveling kit on a GMC AT4 or Chevy Trail Boss model?**
 - **A:** No, this kit does not fit GMC AT4 or Chevy Trail Boss models.
- **Q: Are oversized tires recommended with this kit?**
 - **A:** Vehicles with oversized tires should check various components regularly for wear and tear and replace as needed.
- **Q: What are the recommended tire sizes for this kit?**
 - **A:** Recommended tire sizes include 285/70R17, 295/65R18, 305/55R20, and 305/45R22 with specific wheel sizes and minor trimming required.

	FTL5107	GM 1500 LEVELING KIT
2	FT20275	COILOVER SPACER
1	FT20278	HARDWARE KIT
1	FT5107i	INSTRUCTIONS
1	FTAS12	STICKER
1	FTREGCARD	REGISTRATION CARD

Qty	FT20278 – HARDWARE KIT	LOCATION
6	3/8-24 X 1-1/4" HEX BOLT	
6	3/8" SLIP LOCK WASHER	
6	3/8" FLAT WASHER	
6	M10-1.5 C-LOCK NUT	
6	M10 FLAT WASHER	
1	THREAD LOCKING COMPOUND	

2007-2024 GM C/K1500 2WD/4WD TRUCK & SUV 2019-2024 GM 1500 4WD TRUCK LEVELING KIT FTL5107

NOTE: TO ORDER WEARABLE REPLACEMENT COMPONENTS DO NOT USE PART NUMBERS SHOWN ON THIS INSTRUCTION SHEET. GO TO THE FABTECH WEBSITE AND LOOK UP WEARABLE REPLACEMENT PARTS TO FIND THE PROPER PART NUMBER TO ORDER.

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
- Die Grinder w/ Cutoff Wheel or Sawzall
- Hammer
- Coil Spring Compressor (2019 only)
- 36mm socket (2019 only)

PRE-INSTALLATION NOTES

For technical assistance call: [909-597-7800](tel:909-597-7800) or e-mail: info@fabtechmotorsports.com

READ THIS BEFORE YOU BEGIN INSTALLATION

- Check all parts to the parts list above before beginning installation. If any parts are missing contact Fabtech at [909-597-7800](tel:909-597-7800) and a replacement part will be sent to you immediately.
- 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.
- Use the provided thread-locking compound on all hardware.
- **WARNING-** Installation of this system will alter the center of gravity of the vehicle and may increase rollover as compared to stock.
- 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 replacement as needed.
- Verify differential fluid is at a manufacturer-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 manufacturer recommends 3 quarts of fluid, make sure the diff has 3 quarts of fluid). Check your specific manual for the correct amount of fluid.

Footnotes

- Some models may not sit level after the install
- Will not fit models equipped with Adaptive Ride Control
- Does not fit GMC AT4 or Chevy Trail Boss models
- Will not fit vehicles equipped with supercruise

Recommended Tire Sizes

- Use 285/70R17 tires w/17×9 wheels w/5.5" BS w/ minor trimming
- Use 295/65R18 tires w/18×9 wheels w/5.5" BS w/ minor trimming
- Use 305/55R20 tires w/20×9 wheels w/5.5" BS w/ minor trimming
- Use 305/45R22 tires w/22×9 wheels w/5.5" BS w/ minor trimming

(2007-2018 TRUCK MODELS) (2007-2021 SUV MODELS)

IF INSTALLING ON 2019-UP TRUCK SKIP

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. Working from the driver's side, support the bottom of the A-arm with a jack. If the vehicle is equipped with autoride disconnect the plug on top of the coilover assembly.
Remove the auto ride bracket (if equipped from the A-arm and save hardware. SEE FIGURES 1-2

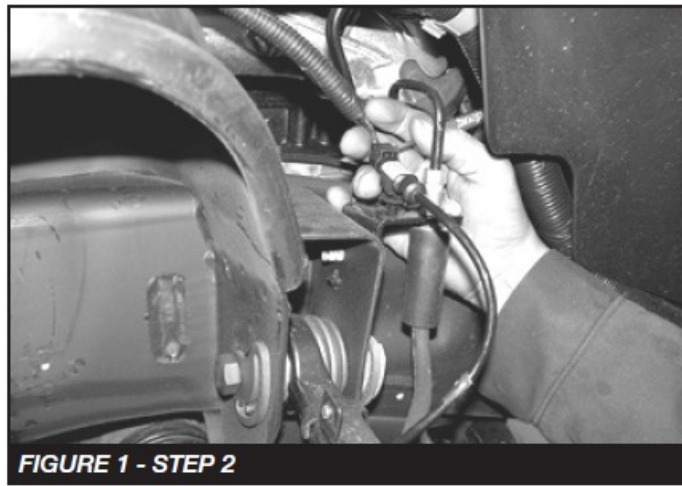


FIGURE 1 - STEP 2



FIGURE 2 - STEP 2

3. Loosen the upper ball joint nut, and strike the knuckle with a hammer till it comes loose from A-Arm. Save all hardware. (Use care not to hit threads.) SEE FIGURE 3

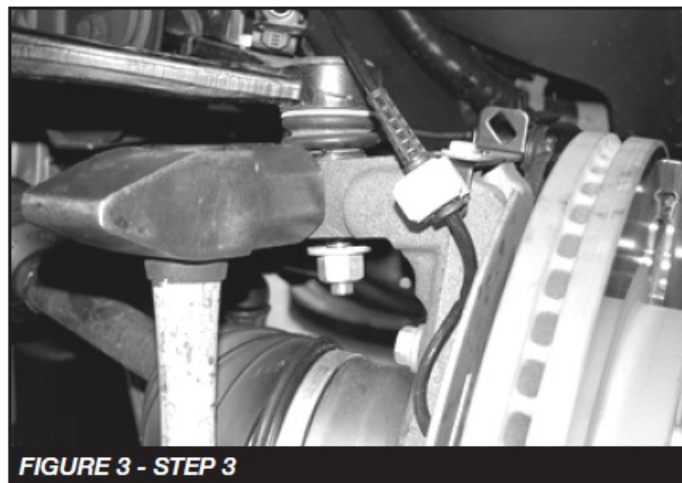


FIGURE 3 - STEP 3

4. Loosen the tie rod nut and strike the knuckle with a hammer till it comes loose. Save all hardware (Use care not to hit threads.) Disconnect the factory swaybar end links and save them with the hardware. SEE FIGURE 4

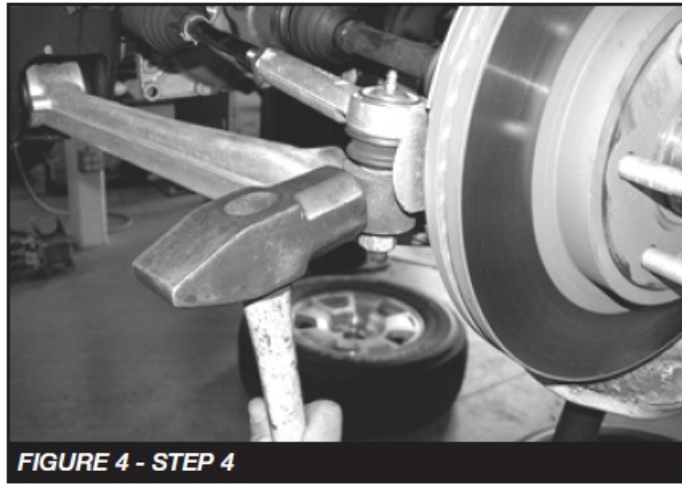


FIGURE 4 - STEP 4

5. Remove the bottom coilover bolts and save. Disconnect the ABS line retainer from the stud on the Coilover and remove the three nuts attaching the coilover to the coilover mount, discard hardware. Remove the coilover from the vehicle. SEE FIGURE 5

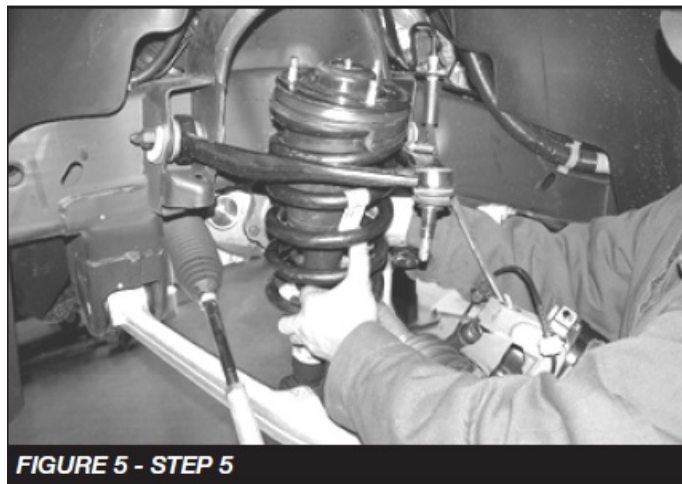
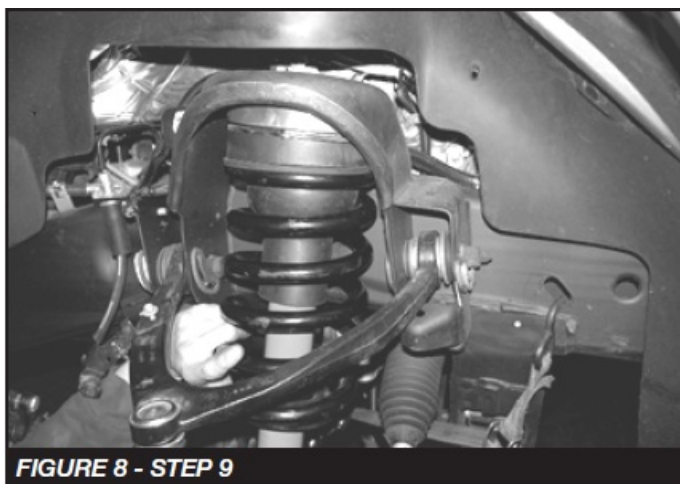


FIGURE 5 - STEP 5

6. Repeat steps two through five on the passenger side of the truck.
7. Locate FT20275BK Coil Spacers and the supplied 10mm nuts and flat washers. Attach the Coil Spacer to the top of the factory Coilover and torque to 30 ft-lbs. (DO NOT USE AN IMPACT ON THE FACTORY STUDS)
Using a die grinder with a cutoff wheel, cut the excess of the factory studs flush with the top of the coil spacer. If required, use a die grinder with a sanding disc and sand the stud flush with a spacer. Be sure not to cut into the spacer. SEE FIGURES 6-7



8. Install the coilover and rotate it 180 degrees from the original position. This will align the new spacer to the original mounting holes in the coilover mount. Attach the bottom part of the Coilover to the lower A-Arm with the factory hardware. Torque bolts to 30 ft-lbs.
9. Using the supplied 3/8"x 1-1/4" bolts, flat washers, split washers, and thread locking compound, attach the Coilover to the factory Coilover mount. Torque to 30 ftlbs. SEE FIGURE 8



10. Attach the upper ball joint to the factory knuckle using the factory nut. Torque to 60 ft-lbs. Now reattach the tie rod to the steering knuckle using the factory nut. Torque to 50 ft.-lbs.
11. Attach the factory swaybar end links with the factory hardware and tighten just till the bushings start to bulge. Attach the autoride bracket to the upper A-Arm using the factory hardware. Re-connect the ABS sensor plug and attach the ABS line back to the upper A-Arm mount.
12. Install tires and wheels and torque lug nuts to the wheel manufacturer's specifications. Turn the front tires left to right and check for appropriate tire clearance. Note – Some oversized tires may require trimming of the front bumper & valance.

13. Check front-end alignment and set to factory specifications. Readjust headlights.
14. Recheck all bolts for proper torque.
15. Recheck brake hoses, ABS wires, and suspension parts for proper tire clearance while turning tires fully left to right.
16. 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.
17. Install Driver Warning Decal. Complete the product registration card and mail to Fabtech to receive future safety and technical bulletins on this suspension.

Vehicles that will receive oversized tires should check ball joints, uniballs and all steering components every 2500-5000 miles for wear and replacement as required.

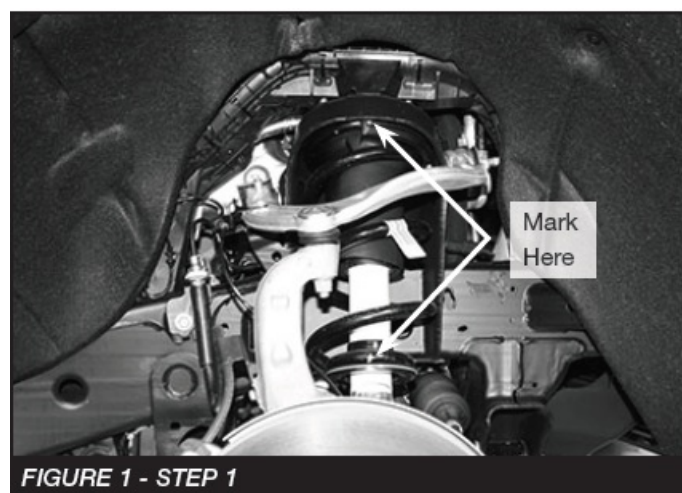
RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER

- For technical assistance call: [909-597-7800](tel:909-597-7800)



(2019-2023 YEAR MODELS)

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. Using a paint pen mark straight line down the center of the coilover at the top cap, lower spring perch and the lower mount. SEE FIGURE 1



2. Starting with the passenger side. Disconnect the ABS wire bracket from the upper control arm and the brake line bracket from the knuckle. Save hardware. SEE FIGURES 2-3

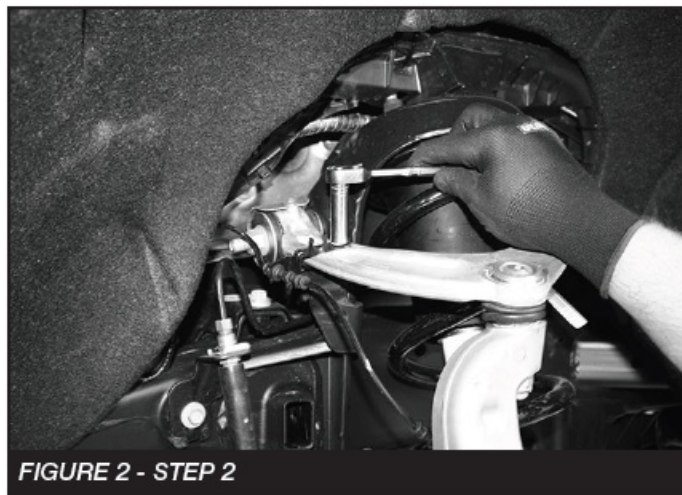


FIGURE 2 - STEP 2

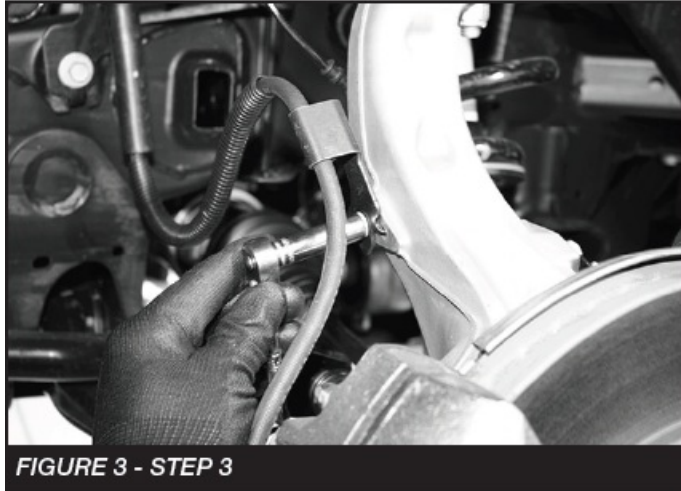
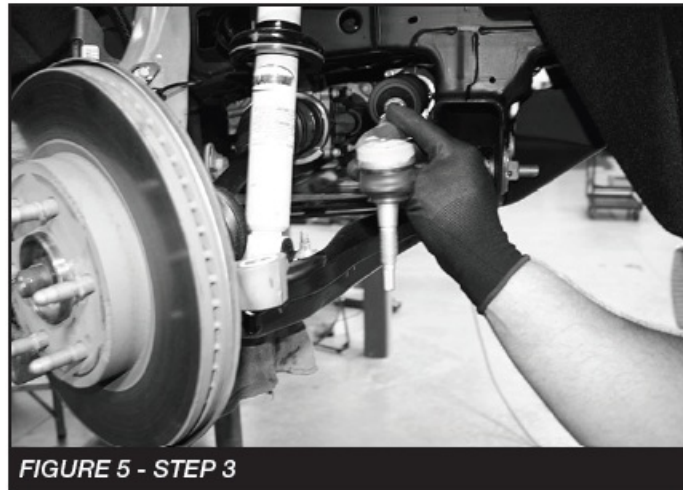


FIGURE 3 - STEP 3

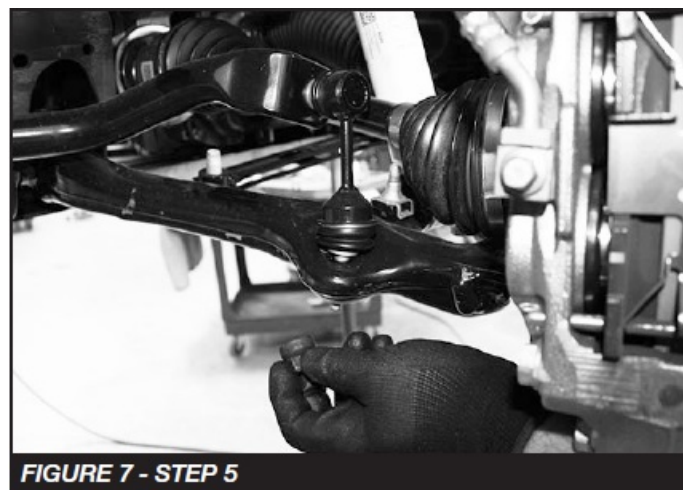
3. Remove the factory tie rod end nut and strike the knuckle with a hammer till the tie rod end comes loose. Save all hardware. Use care not to hit any other parts. SEE FIGURES 4-5



4. Using a 36mm socket, remove and save the axle hub nut. SEE FIGURE 6



5. Remove and save the sway bar link nut from the bottom side of the lower control arm. SEE FIGURE 7



6. Loosen the upper ball joint nut and strike the knuckle with a hammer until it comes loose from the upper control arm.

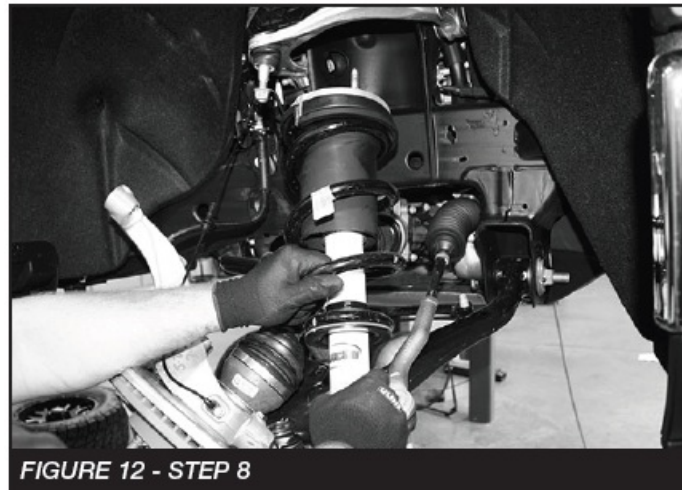
Next, remove and save the factory nut. Then detach the knuckle from the upper control arm. Push the knuckle to the side and secure if possible. SEE FIGURE 8



7. Locate the plastic wire harness channel on the top of the passenger side coilover mount. Push it up and back to allow access to the three coilover nuts. Remove and discard the upper coilover nuts. SEE FIGURES 9-10



8. Remove and save the two lower coilover bolts. Then remove the coilover assembly from the vehicle. SEE FIGURES 11-12



9. Measure and cut 3/4" of thread off the factory upper coilover studs. SEE FIGURES 13



10. Install the FT20275 (Spacer) onto the top of the Coilover using the supplied M10-1.5 nuts and flat washers. Torque to 35 ft-lbs. SEE FIGURE 14

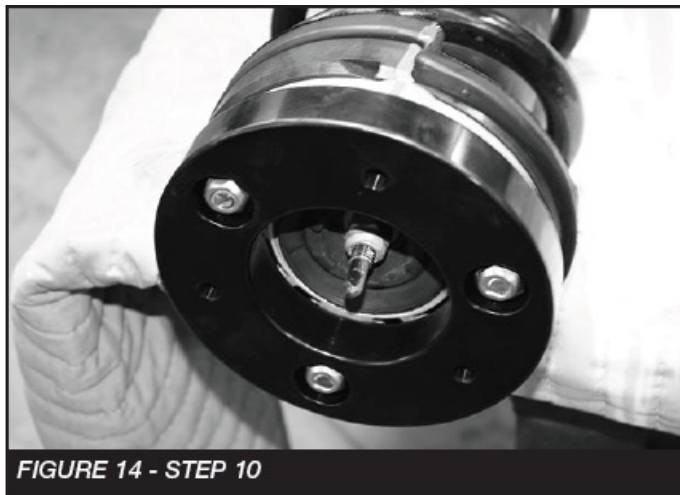


FIGURE 14 - STEP 10

11. Using a coil spring compressor, compress the spring enough to rotate the strut body 180 degrees around. The marks you applied in step 1 will help with this. Then remove the compressor. SEE FIGURE 15



FIGURE 15 - STEP 11

12. Install the coilover assembly into the vehicle using the supplied 3/8" Bolts, lock washers and flat washers for the upper mount and the factory hardware for the lower mount. Torque the 3/8" to 49 ft-lbs and the factory hardware to 56 ft-lbs. SEE FIGURE 16-17

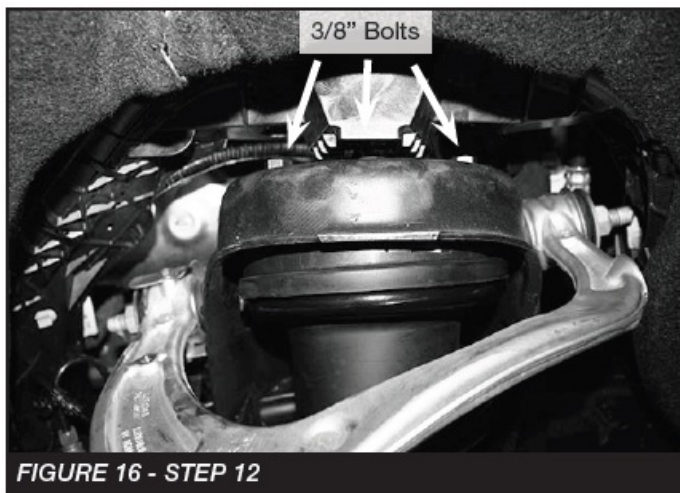
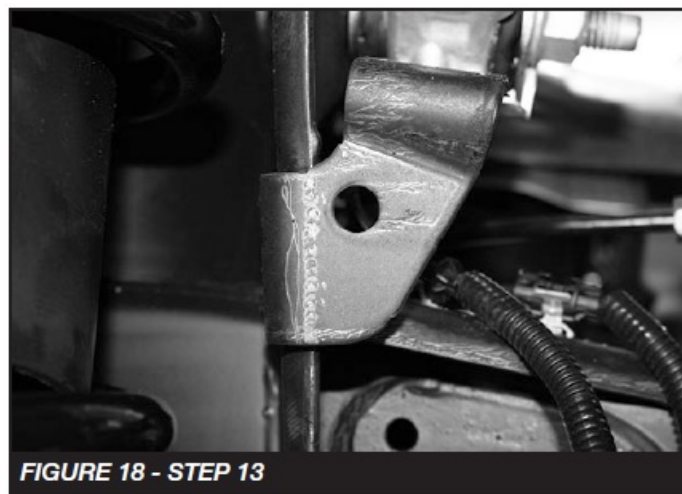


FIGURE 16 - STEP 12



13. Locate the factory bump stop tab on the frame mount.

Using a cutoff wheel remove this tab completely off the mount and sand to a smooth finish. SEE FIGURE 18-19



14. Reinstall the upper control arm to the knuckle, the sway bar link to the lower control arm and the tie rod end to the knuckle torque all nuts to 35 ft-lbs. Reinstall the axle hub nut and torque to 156 ft-lbs. Re-attach the ABS bracket to the control arm and the brake line bracket to the knuckle. Torque to 11 ft-lbs.
15. Repeat steps 1-14 on the driver's side of the vehicle.
16. Install tires and wheels and torque lug nuts to the wheel manufacturer's specifications. Turn the front tires left to right and check for appropriate tire clearance. Note – Some oversized tires may require trimming of the front bumper & valance.
17. Check front end alignment and set to factory specifications. Readjust headlights.
18. Recheck all bolts for proper torque.
19. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to

right.

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

Vehicles that will receive oversized tires should check ball joints, uniballs and all steering components every 2500-5000 miles for wear and replacement as required.

RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER.

For technical assistance call: [909-597-7800](tel:909-597-7800)

Warranty

Product Warranty and 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, 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 and Performance Coilover take-apart shocks are considered serviceable shocks with a one-year warranty on leakage only. Service seal kits are available separately for future maintenance. All other shocks are covered under our Limited Lifetime Warranty.
- Fabtech does not warrant any product for finish, alterations, modifications and/or installation contrary to Fabtech's instructions.
- Alterations to the finish of the parts including but not limited to painting, powder coating, plating and/or welding will void all warranties. Some finish damage may occur to parts during shipping, which is considered normal and is not covered under warranty.
- Fabtech products are not designed nor intended to be installed on vehicles used in race applications or for racing purposes or for similar activities. (A "RACE" is defined as any contest between two or more vehicles, or any contest of one or more vehicles against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the
- United States of America.
- 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.
- Fabtech front-end Desert Guards may impair the deployment or operation of vehicles equipped with supplemental restraining systems/air bag systems and should not be installed if the vehicle is equipped as so.
- Fabtech makes every effort to ensure the suspension product compatibility with all vehicles listed on the website, but due to unknown auto manufacturer's production changes and/or inconsistencies by the auto manufacturer, Fabtech cannot be responsible for 100% compatibility, including the fitment of tire and wheel sizes listed. The Tire and Wheel sizes listed in Fabtech's website are only a guideline for street driving with noted fender trimming. Fabtech is not responsible for damages to the vehicle's body or tires.
- Fabtech is not responsible for premature wear of factory components due to the installation of oversized tires


and wheels.

- Fabtech's obligation under this warranty is limited to the repair or replacement, at Fabtech's option, of the defective product only.
- All costs of removal, installation or re-installation, freight charges, and incidental or consequential damages are expressly excluded from this warranty. Fabtech is not responsible for damages and/or warranty of other vehicle parts related or unrelated to the installed Fabtech product. This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been subject to accident, negligence, alteration, abuse or misuse as determined by Fabtech.
- Fabtech suspension components must be installed as a complete system including shocks as shown on our website. All warranties will become void if Fabtech parts are combined and/or substituted with other aftermarket suspension products.
- Combination and/or substitution of other aftermarket suspension parts may cause premature wear and/or product failure resulting in an accident causing injury or death. Fabtech does not warrant products not manufactured by Fabtech.
- Depending on the condition of the factory suspension components retained after the installation of a Fabtech suspension not all vehicles may have the same ride stance front to rear as described in the website. The blue color of suspension components shown in all Fabtech photographs are for display purposes only. The majority of all Fabtech components will be black specifically where noted with part numbers ending in BK.
- Installation of Fabtech products may void the vehicle's factory warranty; it is the consumer's responsibility to check with their local vehicle's dealer for warranty disposition before the installation of the product. Some state laws may prohibit modification of suspension to a vehicle in whole or in part. It is the responsibility of the installer and consumer to consult local laws prior to the installation of any Fabtech suspension product to comply with such written laws.
- It is the responsibility of the distributor and/or the retailer to review all warranties and warnings of Fabtech products with the consumer prior to purchase.
- Fabtech reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of parts when deemed necessary without written notice. Fabtech is not responsible for misprints or typographical errors within the website or price sheet. For the most recent Product Warranty and Warnings visit our website www.fabtechmotorsports.com Instruction Sheet Part# – FT5107i

CONTACT

- Fabtech Motorsports | 2213 Industrial Park Rd. Lancaster, SC 29720
- Tech Line: [909-597-7800](tel:909-597-7800) | Web: www.fabtechmotorsports.com

Documents / Resources

	<p>FABTECH GM 1500 Leveling Kit [pdf] Installation Guide GM 1500, GM 1500 Leveling Kit, Leveling Kit, Kit</p>
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References

- [!\[\]\(6302aad5aed157b291fddf37b4870784_img.jpg\) **Fabtech® - Suspension Lift Kits & Truck Accessories**](#)
- [**User Manual**](#)

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