



## **INSTALLATION INSTRUCTIONS**

**PART No.** FB27252

**04-20 Ford F150 2WD/4WD**

**Steel 2" Leveling Kit**



### **REQUIRED TOOLS**

Jack  
Jack Stands  
Sockets  
Ratchet  
Torque Wrench

### **KIT CONTAINS**

Front Leveling Spacer

### **QTY**

2



## **INSTALLATION INSTRUCTIONS**

**PART No. FB27252**

**04-20 Ford F150 2WD/4WD**

**Steel 2" Leveling Kit**

### **Introduction:**

- ◆ **This installation requires a professional mechanic!**
- ◆ We recommend that you have access to a factory service manual for your vehicle to assist in the disassembly and reassembly of your vehicle. It contains a wealth of detailed information.
- ◆ Prior to installation, very carefully inspect the vehicle's steering and driveline systems paying close attention to the tie rod ends, ball joints, wheel bearing preload, pitman and idler arm. Additionally, check steering-to-frame and suspension-to-frame attaching points for cracks. The overall vehicle must be in excellent working condition. You must repair or replace all worn or damaged parts!
- ◆ Read the instructions carefully and study the illustrations before attempting install! You may save yourself a lot of extra work.
- ◆ Check the parts and hardware against the parts list to assure that your kit is complete. Separating parts according to the areas where they will be used and placing the hardware with the brackets before you begin will save installation time.
- ◆ Check the special equipment list and ensure the availability of these tools.
- ◆ Secure and properly block vehicle prior to beginning installation.
- ◆ ALWAYS wear safety glasses when using power tools or working under the vehicle!
- ◆ Use caution when cutting is required under the vehicle. The factory undercoating is flammable. Take appropriate precautions. Have a fire extinguisher close at hand.
- ◆ Foot pound torque readings are listed on the Torque Specifications chart at the end of the instructions. These are to be used unless specifically directed otherwise. Apply thread lock retaining compound where specified.
- ◆ **Please note that while every effort is made to ensure that the installation of your Demon Performance Products lift kit is a positive experience, differences in construction and assembly during the vehicle manufacturing process will ensure that some parts may seem difficult to install. Additionally, the current trend in manufacturing of vehicles results in a frame that is highly flexible and may shift slightly on disassembly prior to installation. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech department at the number listed on the cover page. We do not recommend that you modify the Fishbone Offroad parts in any way as this will void any warranty expressed or implied by the Fishbone Offroad company.**



## INSTALLATION INSTRUCTIONS

**PART No.** FB27252

**04-20 Ford F150 2WD/4WD**

**Steel 2" Leveling Kit**

### FRONT LEVELING KIT INSTALLATION

1. Position your vehicle on a smooth, flat, hard concrete or asphalt surface. Block the front tires in front and behind the front tires.
2. Measure and record the distance below from the center of each wheel to the top of its fender opening.

BEFORE INSTALL MEASUREMENTS

AFTER INSTALL MEASUREMENTS

LR: \_\_\_\_\_ RR: \_\_\_\_\_

LR: \_\_\_\_\_ RR: \_\_\_\_\_

**If the vehicle that you are working on is equipped with EPAS, the EPAS plugs will need to be disconnected prior to beginning the installation of this kit. Failure to disconnect these plugs could result in damage to the EPAS module resulting in an error message being displayed, which will require replacement of the EPAS module. EPAS stands for electronic power steering**

3. To begin installation, Block the rear tires of the vehicle so that the vehicle is stable and can't roll backwards. Safely lift the front of the vehicle and support the vehicle with a pair of jack stands. Place a jack stand on both the driver and the passenger side. Next, remove the front wheels from both sides.
4. Working on the driver side, remove the three (3) upper strut mount nuts. Save the OE Hardware. Repeat procedure on passenger side.
5. On the driver side, loosen but do not remove the upper ball joint nut. Repeat procedure on passenger side.
6. Working on the driver side, loosen but do not remove the nut from the outer tie rod. Repeat procedure on passenger side.
7. Now return to the upper ball joint and outer tie rod and carefully break the taper and remove them both from the steering knuckle. Repeat procedure on passenger side. **Special note: Take care not to damage the ball joint and tie rod end rubber boots.**
8. Working on the driver's side, disconnect the sway bar end link from where it is connected to the sway bar, DO NOT disconnect the end link from the lower control arm. Repeat procedure on passenger side.
9. Working on the driver's side, remove the nut and bolt holding the strut assembly to the lower control arm. Repeat procedure on passenger side.



## **INSTALLATION INSTRUCTIONS**

**PART No.** FB27252

**04-20 Ford F150 2WD/4WD**

**Steel 2" Leveling Kit**

10. Working on the driver's side, loosen but DO NOT remove the (2) bolts holding the lower control arm to the vehicle. Repeat procedure on passenger side. **Special note: This is done so that the lower control arm can swing and allow you to remove the strut assembly from the vehicle. Also, carefully use a pry bar to help remove the struts from the vehicle.**

11. With both strut assemblies out of the vehicle it is time to install the new leveling spacers. Install these directly on top of the stock strut cap and secure them using the stock nuts with lock-tite. **Torque to 35 ft lbs.**

12. Working on the driver's side, remove the brake line and ABS line from the mounting location. Save the OE hardware. Repeat procedure on passenger side.

13. Working on the driver's side, install the strut assembly back into the stock location, it may be necessary to pry down on the lower control arm for the lower eye of the shock to go into its pocket. Secure the strut using the stock bolt and hardware on the lower part and using the new 3/8" nylon lock nuts and 5/16" flat washers on the upper mount. Torque the upper 3/8" hardware to **32 ft lbs** and the lower shock bolt to **100 ft lbs**. Repeat procedure on passenger side.

14. Re-connect the upper ball joint into the steering knuckle and secure using the stock nut. It may be necessary to pry down on the upper control arm to get the nut started. Torque to **85 ft lbs**. Repeat procedure on passenger side.

15. Now attach the brake line bracket into the stock location using the stock bolt, torque to **8 ft lbs**.

16. Working on the driver's side re-install the tie rod ends back into the steering knuckle using the stock nut and torque to **70 ft lbs**. Repeat procedure on passenger side.

17. Working on the driver's side, attach the sway bar back to the sway bar end link using the OE hardware. Repeat procedure on passenger side and torque to **50 ft lbs**

18. Install the wheels then carefully lower the vehicle to the ground.

19. Now with the weight of the vehicle on the ground, move back and torque the driver and passenger side lower control arm hardware to **110 ft lbs**.

Use this only as a guide for hardware without a called out torque specification in the instruction manual.

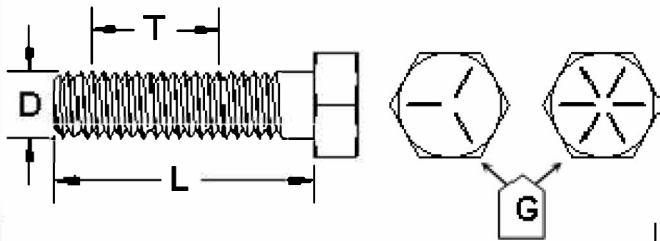
### Bolt Torque and ID

#### Decimal System

#### Metric System

All Torques in Ft. Lbs. Maximums

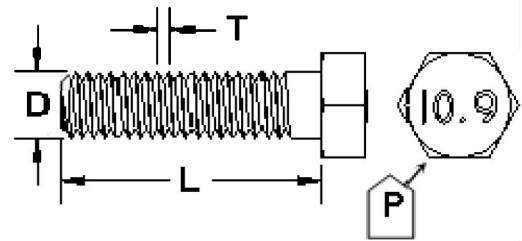
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15	20	M6	5	9	12
3/8	30	45	M8	18	23	27
7/16	45	60	M10	32	45	50
1/2	65	90	M12	55	75	90
9/16	95	130	M14	85	120	145
5/8	135	175	M16	130	165	210
3/4	185	280	M18	170	240	290



1/2-13x1.75 HHCS



Grade 5 Grade 8  
(No. of Marks + 2)



M12-1.25x50 HHCS



G = Grade (Bolt Strength)  
 D = Nominal Diameter (Inches)  
 T = Thread Count (Threads per Inch)  
 L = Length (Inches)  
 X = Description (Hex Head Cap Screw)

P = Property Class (Bolt Strength)  
 D = Nominal Diameter (Millimeters)  
 T = Thread Pitch (Thread Width, mm)  
 L = Length (Millimeters)  
 X = Description (Hex Head Cap Screw)