

READ THE INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE BEGINNING THE INSTALLATION.



**PART# 103220/103420**  
**2009-UP FORD F-150**  
**2" LOWERING SPINDLES**



**What is included**

- |                               |
|-------------------------------|
| (1) Driver side spindle       |
| (1) Passenger side spindle    |
| (2) Brake line bracket spacer |
| (2) M14-2.0 Jam Nuts          |
| (2) M14 Lock Washers          |



*Approximate install  
time 2hrs.*



*Approved on 22" offset wheels or bigger  
Max backspacing 6"*

**NOTE**

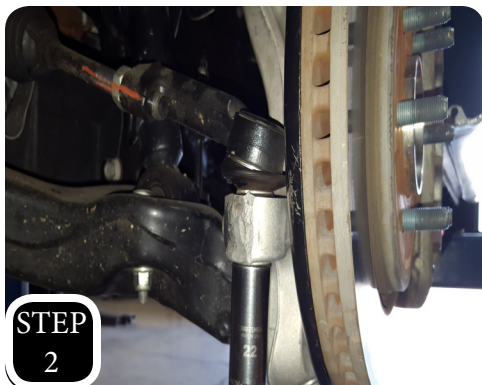
Please double check the parts list before beginning installation, to ensure all parts are present. If there is something missing, please contact Maxtrac Suspension immediately (714) 630-0363

**PRIOR TO INSTALLATION:**

- 1. Factory service manual is recommended to have on hand.**
- 2. Secure and properly block vehicle prior to beginning installation**
- 3. Always wear safety glasses when using power tools or working under the vehicle**
- 4. Modifications to any part will void the warranty associated with that product.**

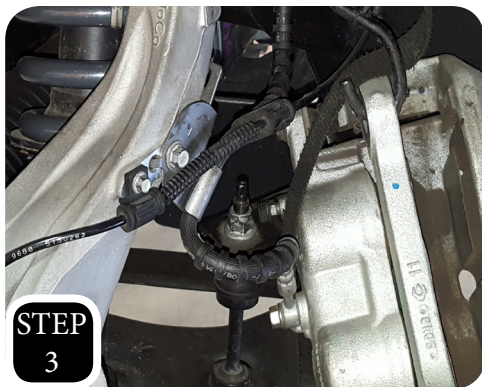
**⚠ AFTER REMOVING PARTS FROM VEHICLE, SAVE HARDWARE FOR REINSTALLATION.**

**BEFORE STARTING:** We recommend drive testing the vehicle prior to the start of the installation to verify that the vehicle is in good working order. Next, fill out the before portion of the ride height sheet provided.

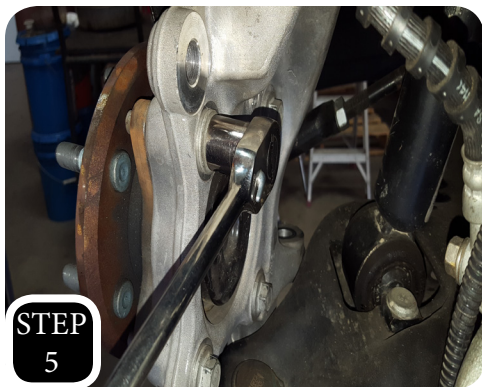


**STEP 1:** Jack up the front of the vehicle and support under the frame rails using jack stands

**STEP 2:** Unbolt the tie rod from the spindle and break loose by hitting the side of the steering arm with a hammer. (NOTE: NEVER HIT THE TIE ROD ON THE THREADS)

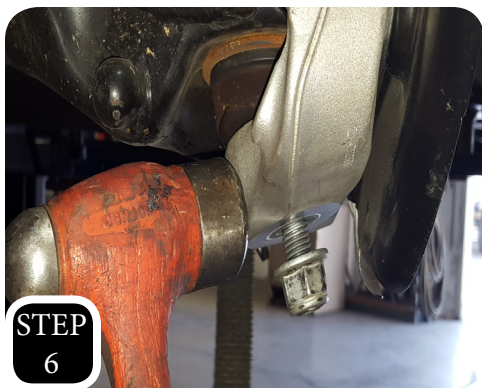


**STEP 3:** Unbolt the brake line bracket and the ABS bracket from the spindle. Next, unbolt the brake caliper and support it so it is out of the way. (**NOTE: NEVER ALLOW THE CALIPER TO HANG BY THE BRAKE LINE**).



**STEP 4:** Remove the rotor, then unbolt and remove the abs sensor from the back side of the spindle, then support the sensor up and out of the way so it does not get damaged.

**STEP 5:** Unbolt the 4 wheel bearing bolts from the back of the spindle and remove. (**NOTE: DISCARD THE FACTORY DUST SHIELD AS IT WILL NOT BE REINSTALLED LATER**)



**STEP 6:** Loosen the upper and lower ball joint nuts but, do not remove them. Hit the side of the spindle (**RIGHT AT THE JOINT**) with a hammer to break the joint loose. The nut will catch the spindle. Then remove the spindle. (**NOTE: NEVER HIT THE BALL JOINT ON THE THREADS**)



**STEP 7:** Install the new spindle and tighten both the upper and lower ball joints. Note

**NOTE:** If the lower ball joint does not clear the rim, use the provided jam nut and lock washer on the lower ball joint. Then cut off the excess amount of threads.

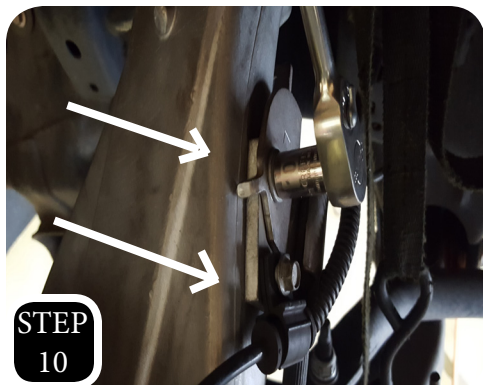




**STEP 8:** Re-install the factory wheel bearing using the factory hardware



**STEP 9:** Re-install the ABS sensor back onto the hub using the factory hardware.



**STEP 10:** Attach the ABS line and Brake line to the side of the spindle using the factory provided hardware and the provided brake line spacer.



**STEP 11:** Re-install the brake rotor and the brake caliber and tighten.



**STEP 12:** Attach the tie rod to the spindle and tighten.