

**PART# 833825**  
**2019+ FORD RANGER 2WD**



2 HOUR INSTALL TIME



Max Trac Suspension recommends using a 17" x 8" wheel w/ 6-6.5" back spacing on a 32" x 10.5" Tire. Any wheel that is wider or has less back spacing I.E. "Deep Dish Wheels" can cause component failure and will void the warranty.

Components	Hardware
(2) STRUT SPACERS	(8) M10-1.25 FLANGE NUTS

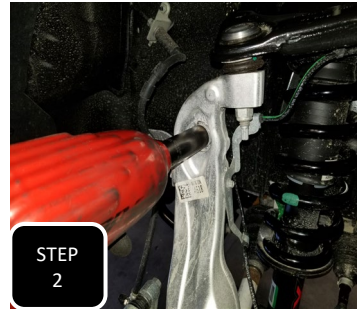
**Please double check the parts list before beginning installation to ensure all parts are present. If there is something missing, please contact Maxtrac Suspension (714) 630-0363. Please have the boxes present if parts are missing or damaged**

**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 Modification to any part will void the warranty associated with that product**

AFTER REMOVING PARTS FROM VEHICLE, SAVE HARDWARE FOR REINSTALLATION

**Step 1** Jack up the front of the vehicle and support under the frame rails with jack stands.



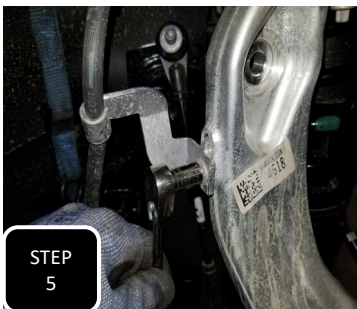
**Step 2** Unbolt the sway bar end link from the neck of the spindle and pivot out of the way.



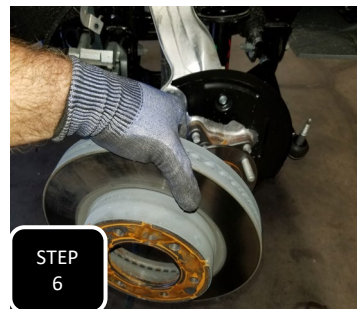
**Step 3** Unbolt the ABS sensor & wire guide from the spindle. Next, unclip the guide at the upper control arm and move the sensor out of the way.



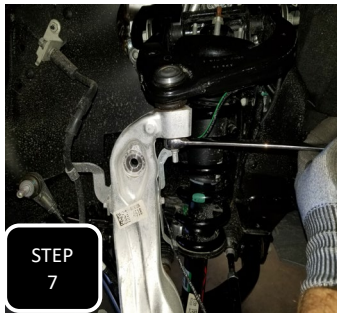
**Step 4** Unbolt the tie rod from the spindle and separate. If the tie rod does not pop out by itself, hit the side of the steering arm with a hammer right where the rod end goes through it.



**Step 5** Unbolt the brake line from the neck of the spindle then unbolts the brake caliper and support it out of the way. **NOTE: NEVER ALLOW THE CALIPER TO HANG FROM**



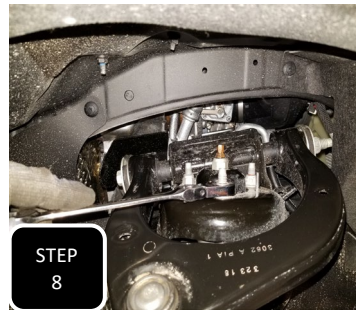
**Step 6** Remove the brake rotor and place it safely out of the way.



STEP  
7



STEP  
7



STEP  
8



STEP  
8

**Step 7** Loosen both the upper and lower ball joint nuts, but do not remove. If the spindle does not pop loose by itself, you will need to hit the spindle right at the ball joint to break it loose. The nuts will catch the spindle. Then

**Step 8** Remove the nuts at the top and bottom of the strut and remove the strut. You will need to push down on the lower control arm with a prybar or your knee to get the strut assembly out.



STEP  
9



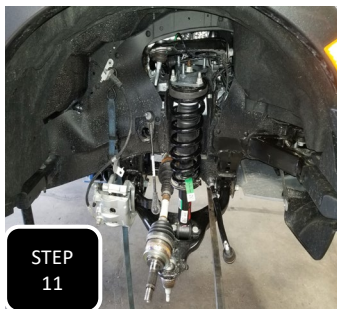
STEP  
9



STEP  
10

**Step 9** Install the new strut spacer and tighten using the factory flange nuts.

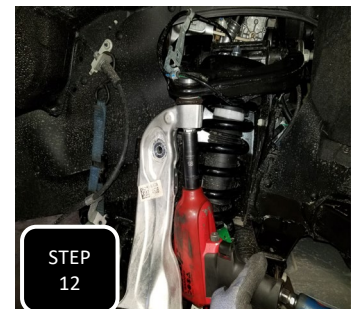
**Step 10** Because the bolt pattern is being rotated to clear the factory studs, the strut assembly will need to be placed in a strut compressor so that you can rotate



STEP  
11



STEP  
12



STEP  
12

**Step 11** Place the strut assembly into the lower control arm and pry down on the lower control arm using a big pry bar while pushing the strut into the coil bucket.

**Step 12** Jack up the lower control arm to compress the coil so that you can now re-install the spindle. Attach the spindle to the upper and lower control arms using the factory nuts and tighten.



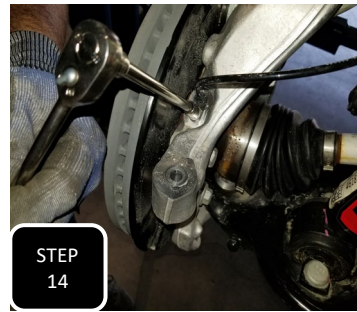


STEP  
13

**Step 13** Install the brake rotor and then the brake caliper and tighten down both of the caliper mounting bolts.



STEP  
13



STEP  
14

**Step 14** Install the ABS sensor and re-attach the two guides at the neck of the spindle and the control arm.

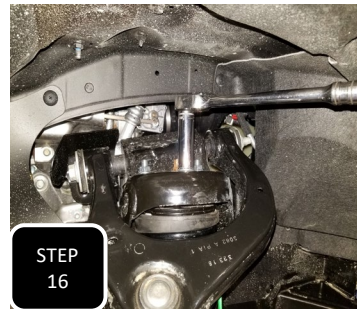


STEP  
14



STEP  
15

**Step 15** Re-attach the brake line guide to the neck of the spindle using the factory bolt and tighten



STEP  
16

**Step 16** Tighten down the top and bottom strut studs using the provided flange nuts at the top and the factory flange nuts at the bottom.



STEP  
16



STEP  
17

**Step 17** You will once again need to compress the coil to attach the tie rod to the spindle. Once compressed, tighten using the factory nut.



STEP  
18

**Step 18** After the spacers have been installed on both sides of the truck, then you can attach the sway bar end links to the spindle and tighten.

- \*It is recommended to have your vehicle's alignment checked after work is performed on suspension.
- \*It is recommended to adjust your headlights after modifying the stance of your vehicle.
- \* It is recommended to re-torque all bolts after 500 miles of driving.