



## W211/W219/R230 SUBFRAME BUSHING INSTALLATION

Upon receiving your order please check to make sure you have these items in your box.

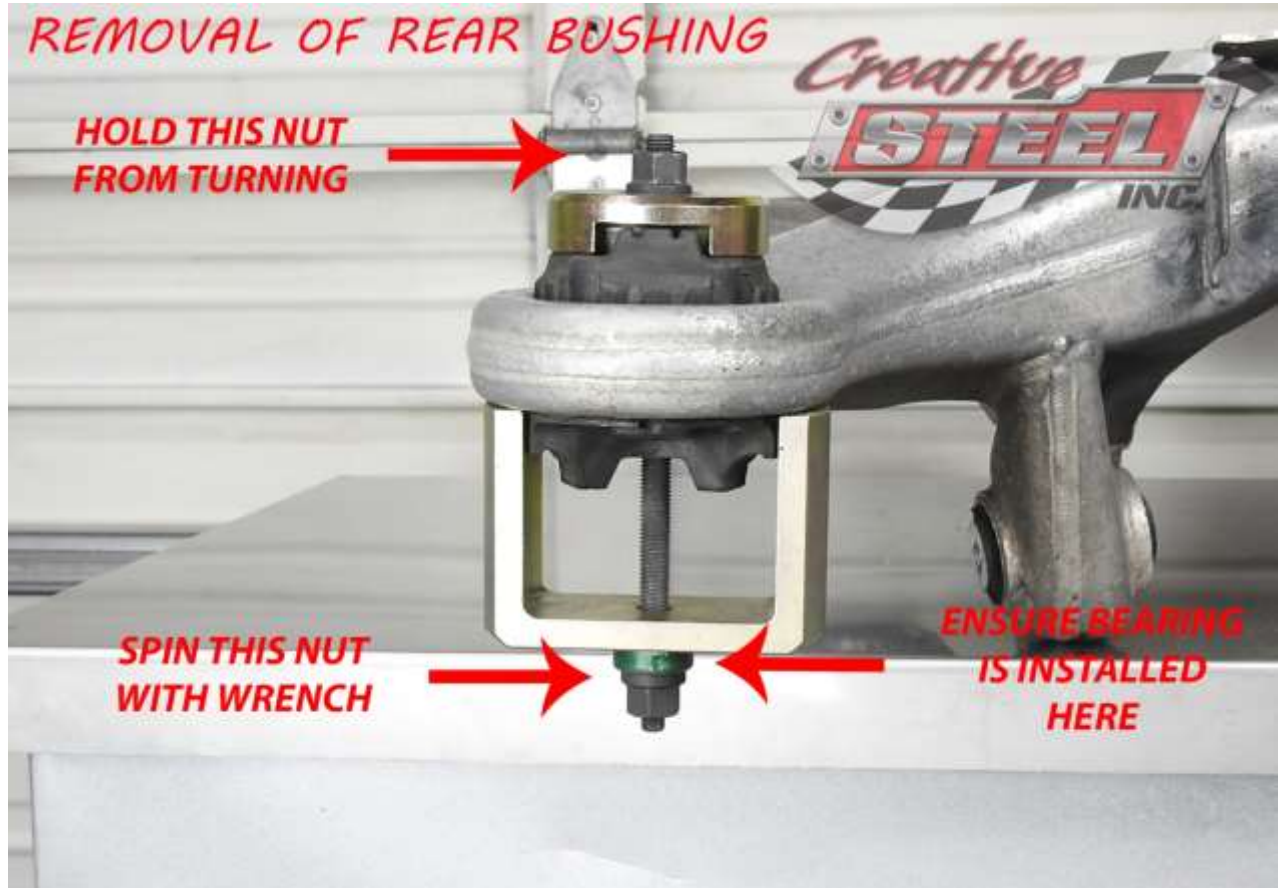




Start off making sure your fuel tank is 1/4 full or less. This will make install a lot easier.

You will be doing one side of the car at a time. We will start with the passenger side.

1. Raise vehicle and remove passenger wheel and plastic fender liner.
2. Remove plastic rocker panel guard under the car.
3. Remove the passenger outside bolt of the fuel tank strap (strap under the fuel tank) to allow the fuel tank to sag a little.
4. Remove both subframe bolts on the passenger side.
5. We will start off removing the rear bushing. Refer to the picture below for tool setup.



6. Turn nut on bottom while holding the nut on top until the bushing is removed. Do not use an impact as it may damage the threads.



7. Next we will work on the front bushing.
8. Ensure the washer is placed between the nut and the bearing.
9. Remove the wires from their clips that are attached to the subframe.
10. On the passenger side with 1/4 tank or less, you will need to remove the hose clamp on the upper side of the fuel filler neck hose. If you have more than 1/4 tank you can remove the bolts that hold the metal filler neck section to the inner fender well.
11. The front bushing is very hard to get out and will take some patience. We have included a second nut in case the first one strips out.
12. Using the provided wrench, start turning the nut until it gets tight. We have noticed that the bushing will work its way out if you wait for a few seconds. So turn the nut until it is tight and wait a few seconds, then turn again. Repeat this process until the bushing is removed.





ALL SIX FEET INSTALLED



ENSURE ALL SIX FEET  
ARE INSTALLED AND  
SPACED EVENLY

INSTALL END OF FEET IN GROOVE



ENSURE THE END OF  
ALL SIX FEET ARE  
SECURED IN  
GROOVE



FEET INSTALLED IN GROOVE



ALL SIX FEET ARE SECURED IN GROOVE

FRONT BUSHING REMOVAL



ENSURE BEARING IS INSTALLED

TURN NUT TO PRESS OUT BUSHING

HEAD OF BOLT IS HELD IN PLACE BY BRACKET



13. Now you are ready to install the Creative Steel polyurethane bushings. Unwrap all of the bushings and you will notice that they have been packaged in the orientation that they go into the car. The bushings are labeled on the flange indicating installed position. "Rear upper" goes in the rear on top and the "rear lower" goes in the rear on the bottom. This is the same for the front.
14. Grease up the center tubes before pressing them into the bushings. Also note that the anodized center tubes are bored out for the locating pin that sticks down from the body of the car.
15. Use the larger zinc plates in the rear and the smaller plates in the front.
16. Install the bolts with the zinc plates touching the bushings and ensure the lock washer is on the bolt.
17. Torque the subframe bushing bolts to 130 Nm or about 95 ft lbs.
18. In reverse order, reassemble the gas tank hose/strap/wiring/plastic guards and wheel.
19. Now you are ready to move on to the other side which is exactly the same process except no fuel filler neck to work around. You will still need to remove the outside fuel tank strap bolt. This allows the subframe to come down.

## **Congratulations you are finished!**

IF YOU HAVE ANY QUESTIONS OR NEED HELP PLEASE CALL US (503) 316-1811

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