



INSTALLATION GUIDE

PART NUMBER: 51129
REAR ANTI-SWAY BAR
NISSAN Z | 2023+

300 W. PONTIAC WAY. CLOVIS, CA 93612
PHONE: 800-445-3767 | EMAIL: INFO@STSUSPENSIONS.COM

THANK YOU

Thank you for choosing our high quality ST Suspensions product. We have spent a great deal of time developing our line of products so that you will receive maximum performance with minimal difficulty during installation. Soon your vehicle will be on the road looking and feeling much improved.

Please take a moment to read all instructions and warnings prior to the installation of your new ST Suspensions product and before operating your vehicle. For any questions or concerns regarding the steps in the installation process, please do not hesitate to call or email our customer support team who are trained to help you through any portion of this process.

Before You Begin:

It is of the utmost importance that you confirm all of the components listed on the parts list is in the kit. You can find this list located on the last page(s) of your instructions. Do not begin installation if any part is missing. Instead, please call our customer service specialists.

Customer Support:

Phone: 1-800-445-3767

Email: info@stsuspensions.com

Safety Information:

Warning: Do not work under a vehicle supported only by a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

Proper use of safety equipment and eye/face/hand protection is absolutely necessary when performing any of the following instructions.

We strive for an exceptional experience for all our valued customers. If for any reason you need assistance with your ST Suspensions products, please do not return the product to the store you purchased from, but rather call our dedicated customer service experts, from 7am to 5pm PST.

We recommend that a qualified mechanic, at a properly equipped facility, perform this installation.

It is very helpful to have an assistant available during installation.

Before Driving Your Vehicle:

It is important to double check all brake hoses, cables, and other components to be sure there is no interference. You must also check for wheel/tire to chassis/body interference. If any issues are found, review your installation instructions to be sure no steps were missed and any problems are corrected.

Make sure your vehicle is aligned immediately following installation.

Check all hardware and re-torque at intervals for the first 10, 100, and 1000 miles.

Any changes in your vehicle's suspension may result in transformed handling. Please test-drive your vehicle in a remote location so you can become accustomed to the revised driving characteristics.

Perform headlight check and adjustment.

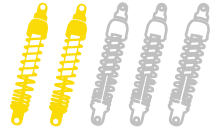
Failure to drive any modified vehicle in a safe manner may result in harm or death.

Never operate your modified vehicle under the influence of drugs, alcohol, or lack of adequate sleep.

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME: 1 - 2 Hours

RECOMMENDED TOOLS:

- Properly rated floor jack
- Wheel chocks
- Support stands
- Metric wrench set
- Metric ratchet socket set
- Flat and Phillips head screwdrivers
- Safety Glasses
- Torque wrench rated up to 100 ft lbs.

JACKING, SUPPORTING, AND PREPARING THE VEHICLE

1. Park your vehicle on a smooth, level, concrete or seasoned asphalt surface.
2. Block the front wheels of the vehicle using wheel chocks. Make sure the vehicle's transmission is in "PARK" (automatic) or 1st gear (manual).
3. Activate the parking brake.
4. Break loose, but do not spin the wheel lug nuts to ease in removal when the wheels are in the air.
5. Lift the rear of the vehicle off the ground using a properly rated floor jack. Lift the vehicle so the rear tires are approximately 6-8 inches off the ground.
6. Place support stands rated for the vehicles weight. The stands should be positioned in the factory specified locations. (Refer to the owners manual). Prior to lowering the vehicle onto stands, make sure the support stands will contact the chassis. It is very important that the vehicle is properly supported to prevent any harm to ones self or to the vehicle.
7. Lower the vehicle slowly onto the stands.
8. Remove the rear wheels.



Technician reminder:

Never work under a vehicle supported only by a jack. It is necessary to place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

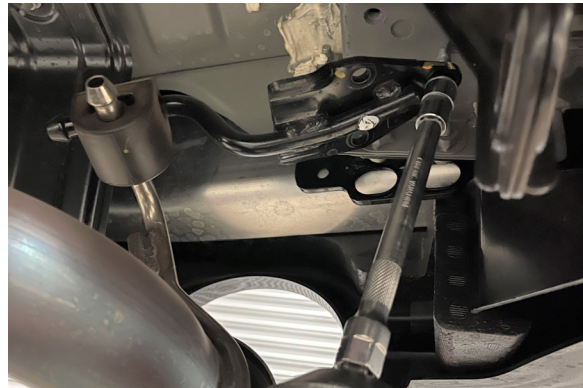
REAR ANTI-SWAY BAR REMOVAL

9. Remove the three bolts holding the diagonal chassis brace bracket then remove the 12mm bolts holding both braces and detach them from the vehicle.



10. Support the exhaust at the rear muffler with a jack to lower the exhaust and gain clearance in the next steps.

11. Remove the 12mm nuts and bolts holding the exhaust hanger brackets at the mid-pipe and at the muffler.

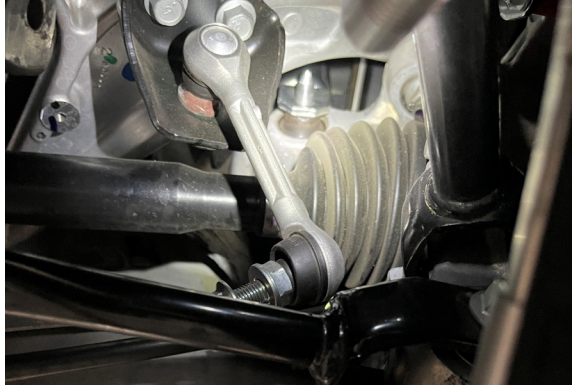


12. Lower the jack and the exhaust assembly to gain clearance.



REAR ANTI-SWAY BAR REMOVAL CONTINUED

13. Remove the lower end link nuts with a 14mm wrench. Secure the end link from spinning by using an open end wrench at the base of the end link ball joint. Ensure there is no damage done to the rubber boot.

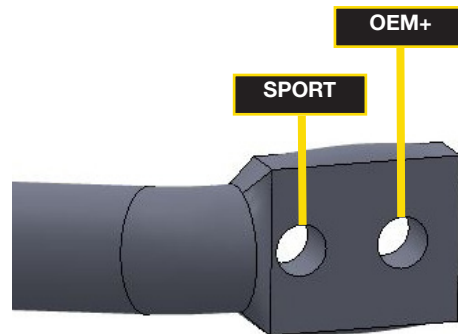


14. Remove the pivot bushing brackets with a 14mm socket and remove the sway bar assembly from the vehicle by guiding it over the exhaust.



ST ANTI-SWAY BAR INSTALLATION

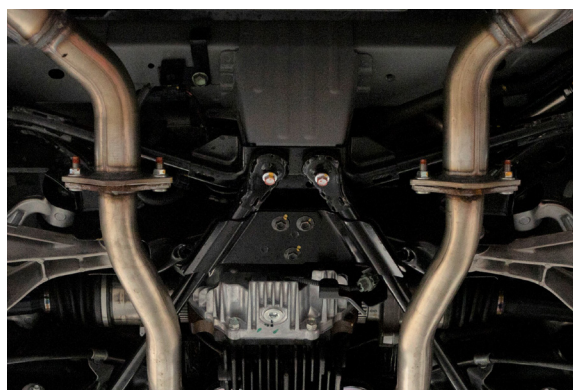
15. Using the supplied grease pack, thoroughly lubricate the inside of the new pivot bushings supplied with the sway bar.
16. Attach the bushings on both sides of the ST sway bar, close to the original location. Once located, rotate the bushings slightly to evenly spread the lubricant.
17. Mount the sway bar with the supplied pivot bushing brackets. Use the original bracket nuts to secure the sway bar. Torque the brackets to 33 ft lbs.
18. Please choose a sway bar setting for your vehicle: OEM+ or SPORT (OEM+ is softer and SPORT is stiffer)



19. Swing the sway bar arms to the end links and attach the sway bar with the original lower end link nuts. Torque to 41 ft lbs.



20. Mount both rear diagonal braces and bracket to the chassis with the original bolts. Torque to 24 ft lbs.



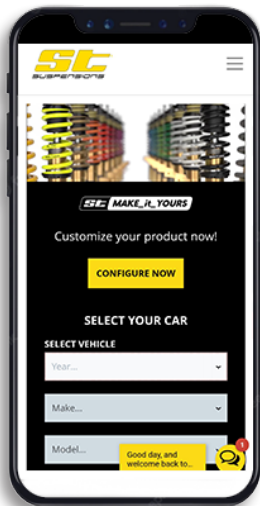
21. Raise the exhaust assembly to attach the hanger brackets to the chassis with the original nuts and bolts. Torque to 10 ft lbs.
22. Check brake hoses and other components for any possible interference.

FINALIZING THE INSTALLATION

23. Mount the wheels and tighten the lug nuts.
24. Lift the vehicle and remove the support stands.
25. Carefully lower the vehicle onto the flat ground.
26. Torque the lug nuts to 80 ft lbs.
27. Check that all components and fasteners have been properly installed and torqued.
28. Read and perform all tasks in the “Before Driving Your Vehicle” section of page 1 of your instructions.

THANK YOU FOR CHOOSING ST SUSPENSIONS.

You are now a part of the ST family and we are eager to catch a glimpse of your newly modified vehicle. Give us a shout out and let us know how much you love our product. Don't forget, we offer other ST related merchandise for you and your vehicle on our website www.stsuspensions.com



STsuspensionsUSA



KW automotive



@st_suspensions

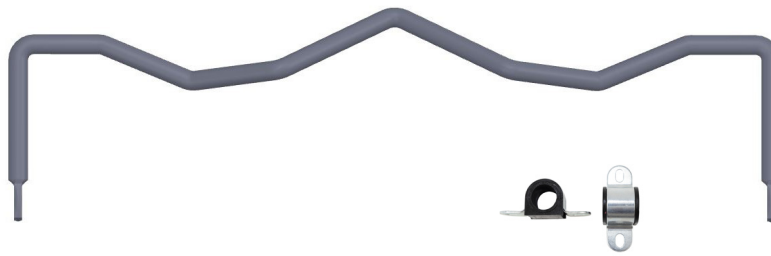
If you have any questions, concerns, or warranty related issues regarding your ST Suspensions product, please call or email our experienced customer service specialists.

Customer Support:

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KIT CONTENTS



Anti-Sway Bar Kit		
Part number	Description	Qty
51129-300	REAR ANTI-SWAY BAR	1
51129-777	HARDWARE KIT	1

Hardware Kit (50219-777)		
Part number	Description	Qty
55000-10	GREASE PACK	1
114032-95	PIVOT BUSHING BRACKET	2
113175	PIVOT BUSHING 1-1/8"	2