



# INSTALLATION GUIDE

**PART NUMBER: 51055**  
**REAR ANTI-SWAY BAR**  
**CHEVROLET CAMARO | 1982-2002**  
**PONTIAC FIREBIRD | 1982-2002**

**\*\*ONLY FOR VEHICLES ORIGINALLY EQUIPPED WITH A FACTORY REAR SWAY BAR\*\***

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# 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](mailto: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 Hour

## RECOMMENDED TOOLS:

- Properly rated floor jack
- Support stands
- Wheel chocks
- Metric and standard socket wrench set
- Metric and standard wrench set
- 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 first gear (manual).
3. Activate the parking brake.
4. 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.
5. Place support stands rated for the vehicle's weight. The stands must be positioned in the factory specified locations. (Refer to the owner's 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 oneself or to the vehicle.
6. Lower the vehicle slowly onto the stands.



### 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.

## ORIGINAL SWAY BAR REMOVAL

7. Hold the 13mm bot head at the bottom of the end link to keep it from spinning and remove the 13mm end link nut. Detach the end link assembly from the vehicle.



8. Remove the four 13mm nuts from the axle clamp to detach the sway bar and mounting brackets from the vehicle.

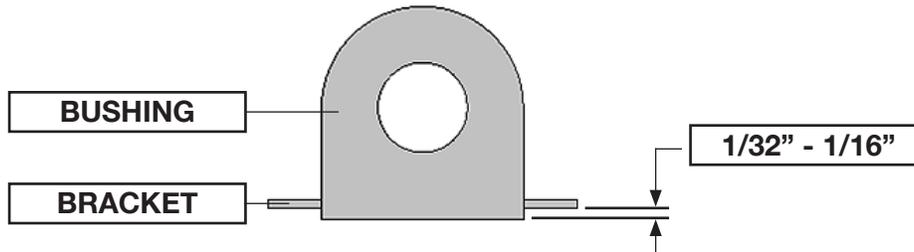


# ST SWAY BAR INSTALLATION

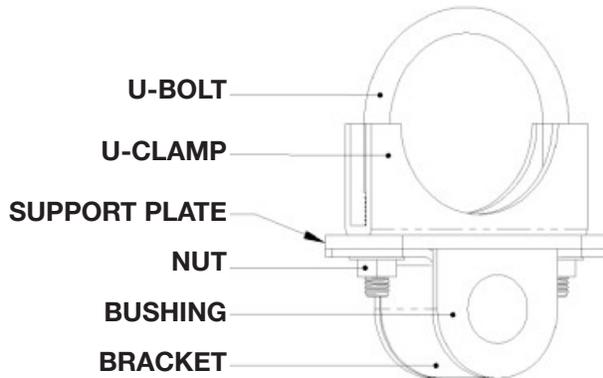
9. Thoroughly lubricate the inside of the supplied pivot bushings using the grease packet included with the kit.
10. Place the bushings on both sides of the ST suspensions sway bar, near the original position. Once located, rotate the bushings slightly to evenly spread the lubricant. Place the bushing brackets over the bushings.



11. Ensure there is 1/32" to 1/16" of the bushing is showing after the bracket is seated. If the bushing is showing more than 1/16", use a sander or a sheet of coarse grit sandpaper to shave it down to the proper height.

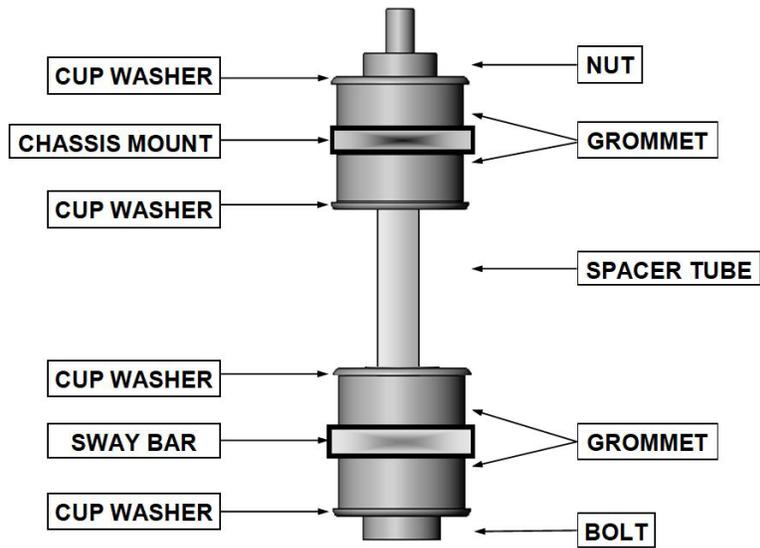


12. Carefully bend the hydraulic line away from the axle and place the U-bolts over the axle tube and under the brake line, ensuring the brake line is not clamped underneath. Place the U-clamp on the U-bolt followed by the support plate. Mount the sway bar and bushing bracket on the U-clamp. Hand tighten the supplied nuts on the U-bolt for now. Ensure the sway bar is positioned below the axle.

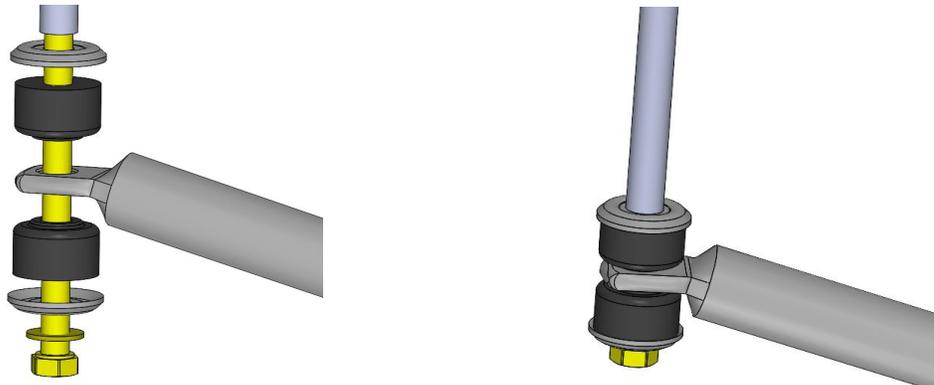


# ST SWAY BAR INSTALLATION CONTINUED

13. The end link is assembled through the chassis mount and the ends of the ST sway bar as shown in the diagram below.



14. Assemble the end links to the ST sway bar, as shown in the diagram.



15. Mount the end link assembly to the chassis mount and tighten the end link bolt to the point where the spacer tube can still be forced to rotate on the bolt by hand, but the rubber grommets should not be able to rotate by hand.

16. Torque the U-bolts and pivot bushing clamps to 18 ft lbs.

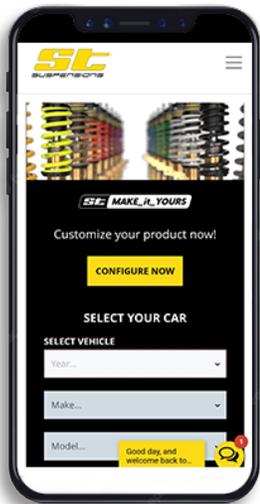


# FINALIZING THE INSTALLATION

17. Lift the vehicle and remove the support stands.
18. Carefully lower the vehicle onto flat ground.
19. Check that all components and fasteners have been properly installed and torqued.
20. 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 suspensions 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 suspensions related merchandise for you and your vehicle on our website [www.stsuspensions.com](http://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:

Phone: 1-800-445-3767

Email: [info@stsuspensions.com](mailto:info@stsuspensions.com)

# KIT CONTENTS



SWAY BAR KIT		
Part number	Description	Qty
51055-300	1" REAR ANTI-SWAY BAR	1
51055-777	HARDWARE KIT	1

HARDWARE KIT		
Part number	Description	Qty
110255	3/8"-16 NYLOC NUT	4
112140	3/8"-16 X 7" BOLT	2
110625	3/8" WASHER	4
112502	CUP WASHER	8
113000	END LINK GROMMET	8
112422-95	2-1/2" SPACER TUBE	2
112276-95	2-1/2" U-CLAMP	2
113165	1" PIVOT BUSHING	2
114032-95	PIVOT BUSHING BRACKET	2
114038-95	BUSHING SUPPORT PLATE	2
55000-10	WHITE LITHIUM GREASE	1



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