S197 Rear Sway Bar Installation Instructions

Required Tools:

- Jack and jack stands
- 13mm, 15mm, 18mm, 19mm, 9/16”, ¾” sockets and wrenches
- 5/16” Allen wrench
- Pry bar

Installation:

1. Lift vehicle and safely support with stands under the frame. It may also help the installation to position the jack under the rear end and lift it slightly to remove some of the load off the control arm bolts.

2. If working on jack stands, remove both rear wheels/tires to gain better access to the work area.

NOTE: the installation pictured was done on a 2-post service lift and the wheels/tires were left installed throughout the installation process.

3. Using a **13mm** socket, un-bolt the outer sway bar mounting bushings as shown in **IMAGE 1**.

4. Using a **15mm** socket, un-bolt the sway bar end links as shown in **IMAGE 2**.

5. Remove the factory sway bar.

6. Starting with the drivers’ side of the car, remove the control arm bolt at the axle using an **18mm** wrench or socket.

7. Directly above the control arm bolt is the axle damper weight that must also be removed for this installation. Remove it using a **15mm** socket or wrench as shown in **IMAGE 3**.

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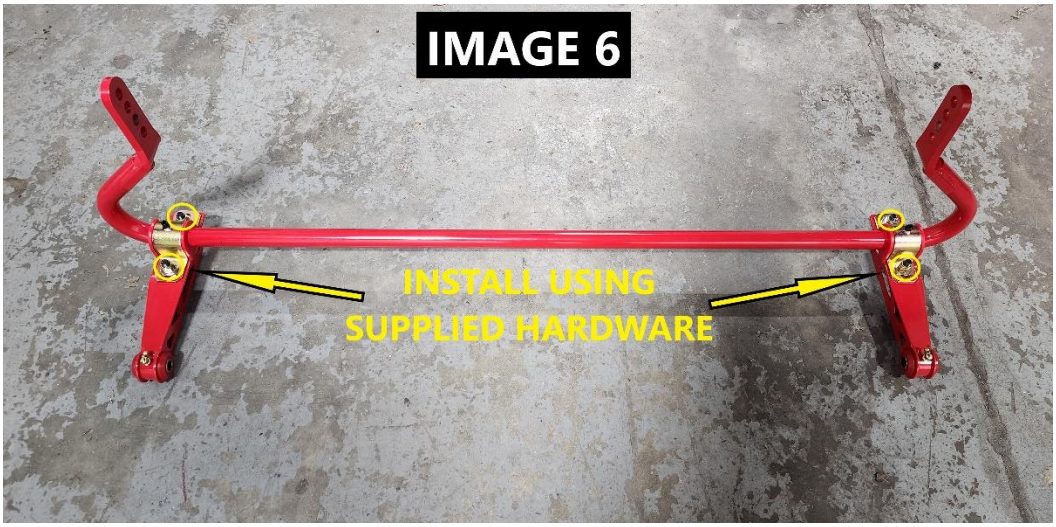
8. Install the BMR mounting bracket as shown in **IMAGE 4**. If you have **BMR CAB005** Control Arm Relocation brackets already installed on your vehicle, you can simply bolt the bracket in place using the hardware that was provided with your Control Arm Relocation brackets (See images on final page of instructions). If you do not have BMR Control Arm Relocation brackets installed on your vehicle, bolt the BMR sway bar bracket to your axle using the supplied 12mm x 45mm bolt, washer, and spacer as shown in **IMAGE 4**.

9. Once the bracket is installed, tighten the control arm bolt to **129 ft lbs** and the damper bolt to **45 ft lbs**

10. Proceed to the passenger side and install the BMR supplied bracket as shown in **IMAGE 5**. This side does not require a spacer. Tighten the control arm bolt to **129 ft lbs** and the damper bolt to **45 ft lbs**

11. Using the provided 1" Energy Suspension bushings, connect the BMR end links to the BMR sway bar as shown in **IMAGE 6**. Use the provided 3/8" Allen bolts, nuts, and washers for this connection.



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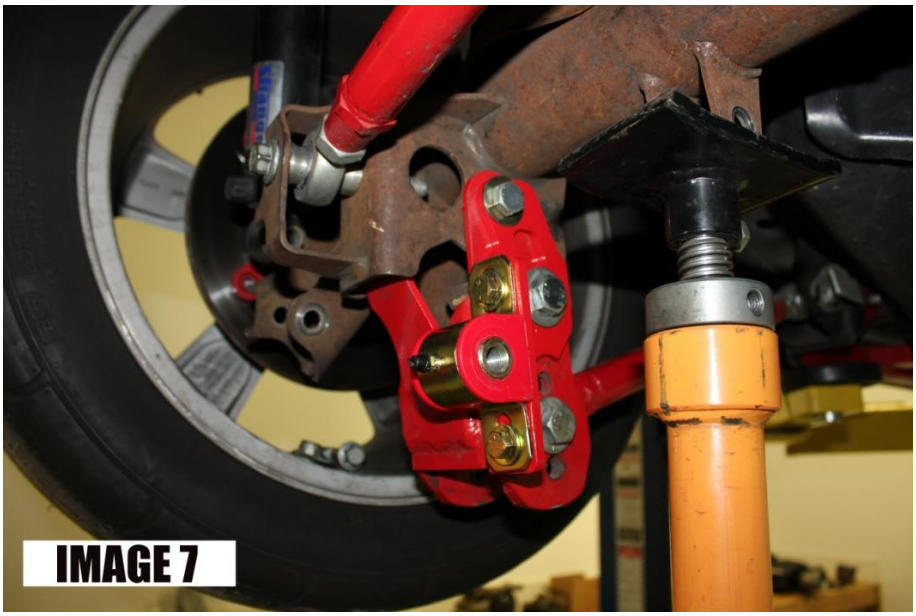
12. Loosely mount the provided 7/8" Energy Suspension bushings to the BMR axle brackets then insert the supplied threaded steel bushing into the polyurethane bushings as shown in **IMAGE 7**. The threaded portion should face inwards as shown. Do not tighten these bushings until later.

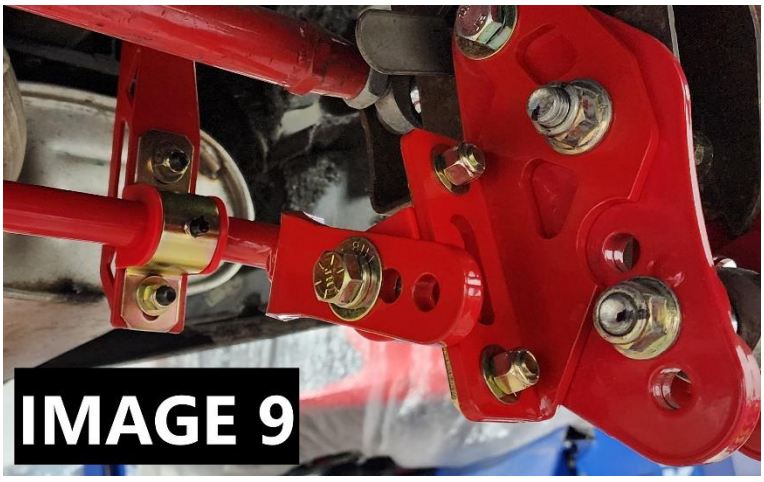


13. Lift the bar up into the car and connect the upper part of the end link into the factory mounting brackets using the factory mounting hardware as shown in **IMAGE 8**.

14. Tighten these bolts to **45 ft lbs** using a **15mm** wrench or socket.

15. After determining which sway bar hole you want to use, rotate the sway bar up and connect it to the threaded steel bushings as shown in **IMAGE 9**. Use the provided ½" x 2" bolt, flat washer, and lock washer as shown in the image.

NOTE: *make sure you put one of the supplied ½" washers between the sway bar and the bushing as shown*.



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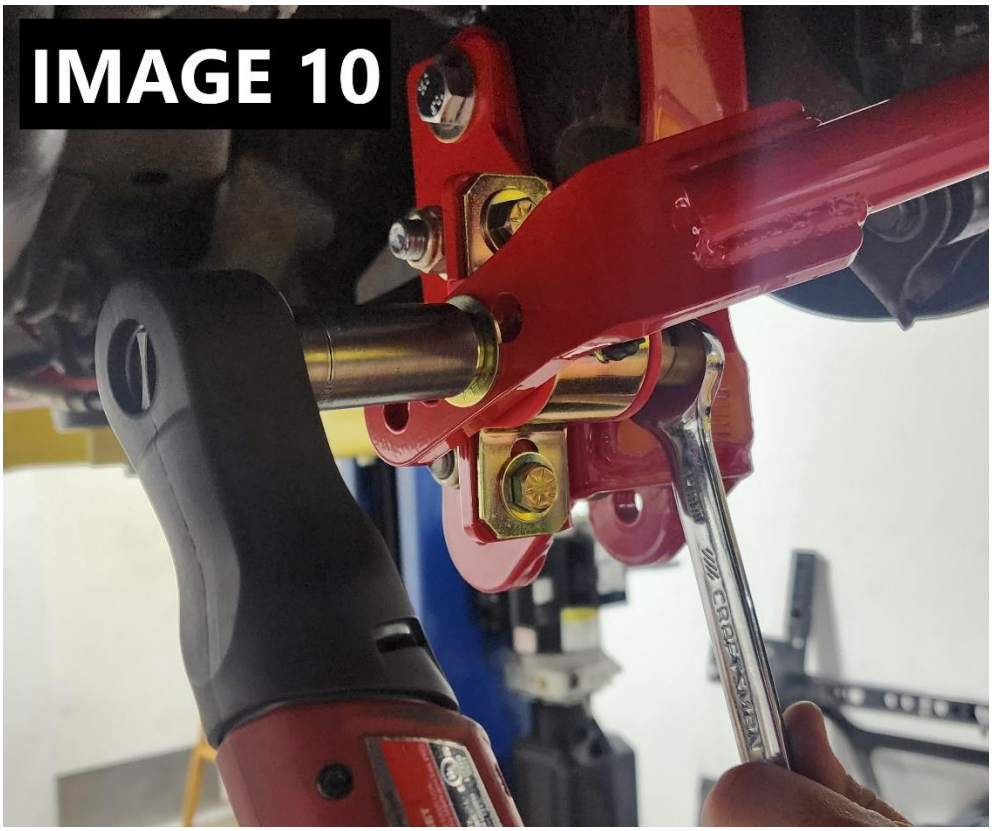
16. Once both sides are mounted, tighten the ½" bolt using (2) **¾"** wrenches as shown in **IMAGE 10** use the table below to select which hole you would like to use.

17. Tighten the sway bar mounting bushings using a **9/16"** wrench and socket.



Sway Bar Rate	
Hole Position	**Lbs/in**
1 Softest (furthest from mount)	224 (133% stiffer than stock)
2	259 (170% stiffer than stock)
3	302 (215% stiffer than stock)
4 Stiffest (nearest to mount)	356 (271% stiffer than stock)

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