



INSTALLATION GUIDE

PART NUMBER: 5583
REAR ANTI-SWAY BAR
MERCEDES SPRINTER 4WD / AWD (VS30) | 2019+

300 W. PONTIAC WAY. CLOVIS, CA 93612
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THANK YOU

Thank you for choosing our high quality Belltech 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 installation of your new Belltech product and before operating your vehicle. If you have any questions or concerns regarding any step in the installation process, please do not hesitate to call or email our customer support specialists 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 the components listed on the parts list are 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 Belltech customer service specialists.

Belltech Customer Support:

Phone: 1-800-445-3767

Email: info@belltech.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 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 Belltech 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, in 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 torque at intervals for the first 10, 100, and 1000 miles.

Some of Belltech's products are designed to improve your vehicle's off-road performance. Leveling/lifting your vehicle may result in an altered center of gravity. It is crucial to use extreme care when operating your vehicle to prevent rollover and/or loss of control.

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

Perform headlight check and adjustment.

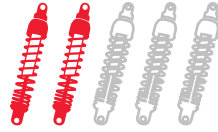
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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
- Ratcheting socket wrench and socket set
- Metric wrench set
- Support stands
- Wheel chocks
- Safety glasses

SPECIALTY TOOLS:

- Torque wrench up to 200 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.



Installation Note:

Lifting the vehicle with a floor jack and jack stands is not required for this installation.

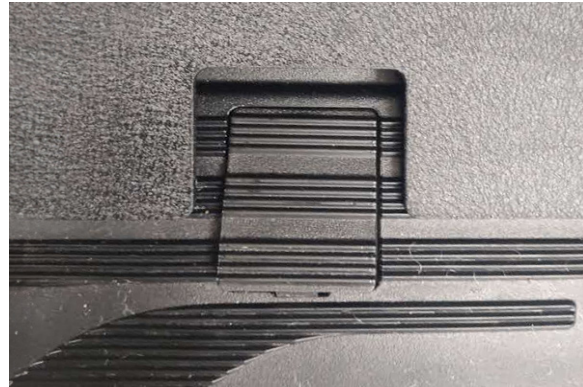
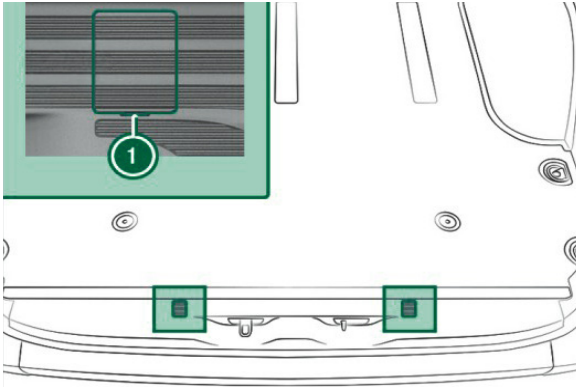
SPARE TIRE REMOVAL



Installation Note:

For this procedure it is recommended to use a hydraulic floor jack to support the weight of the spare tire and maneuver the spare wheel carrier up and down.

4. Open the two doors at the rear of the vehicle.
5. Locate the two retaining hook bolt covers located to the edge of the rear bumper.



6. Insert a small screwdriver into the recesses and remove the covers.

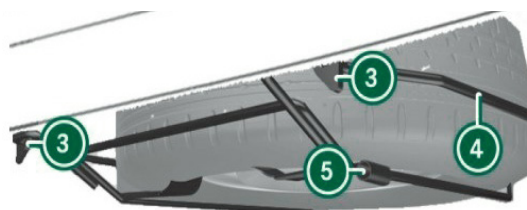


7. Using a 19mm socket, begin turning the bolt counterclockwise by approximately 20 turns, on both sides. This will release tension on the hooks below.



SPARE TIRE REMOVAL CONTINUED

8. Locate the jacking point on the RH side (DIAG 5) and use a floor jack to raise the spare wheel carrier off the LH hook first, then lift the RH.



(3) CARRIER HOOKS
(4) SPARE WHEEL CARRIER
(5) JACKING POINT

9. Carefully lower the spare wheel carrier towards the ground. At about 1 inch off the ground, carefully remove the spare wheel from the spare wheel carrier.
10. Once removed, attach the spare wheel carrier to the LH and RH hooks so it's not in the way.

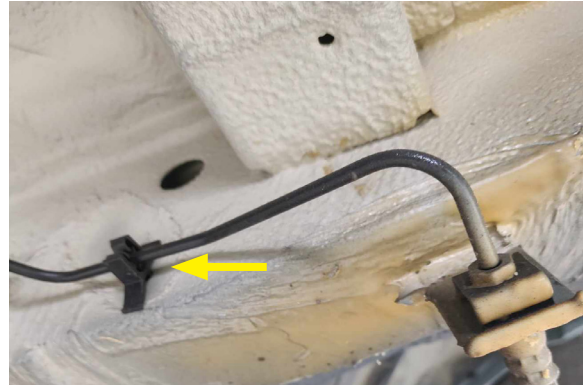


Installation Note:

This is recommended if this process is being done on the ground, if this process is being done on a vehicle lift, the spare wheel carrier can be left in the down position.

REAR SWAY BAR BRACE INSTALLATION

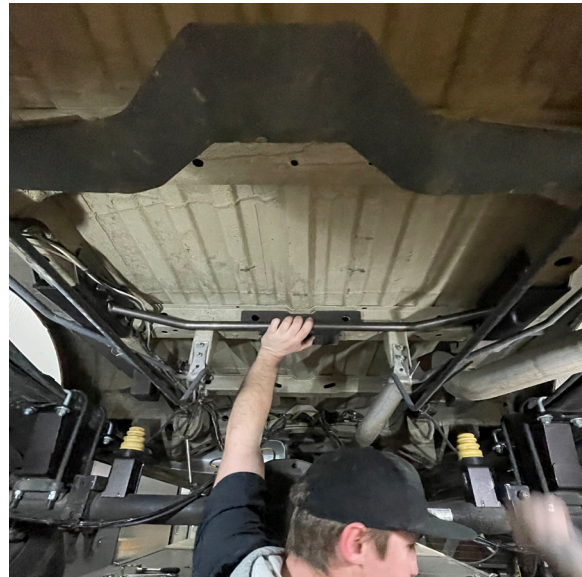
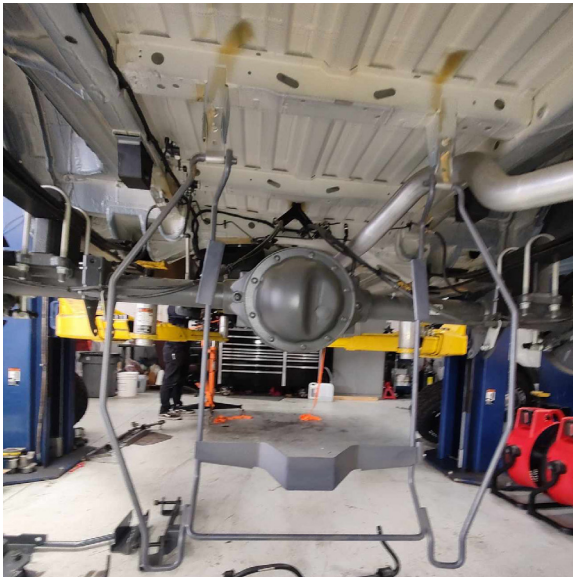
11. Detach the wire and line retaining clips on the driver side frame rail.



12. If the spare tire carrier is not removed, begin from the driver side and slide the Belltech sway bar brace 155251-250-992 through the spare tire carrier across to the opposite side. Let it rest of the spare tire carrier.



13. If the spare tire carrier is removed or pushed down, hold both sides of the Belltech sway bar brace and place it in position, in a upwards motion, onto the frame.



REAR SWAY BAR BRACE INSTALLATION CONTINUED

14. As the Belltech sway bar brace is lifted in position onto the frame, avoid catching or damaging the cables on the driver side frame rail.



15. Adjust the position until all the holes on the frame and brace are visible on both sides.



16. Fasten the center of the brace with the supplied M16x20-115mm bolts, M16 Nyloc nuts, and washers in hardware kit 5583-777C. Do not torque yet.



REAR SWAY BAR BRACE INSTALLATION CONTINUED

17. Fasten the sides of the Belltech brace with the M18x2.5-130mm bolts, M18 Nyloc nuts, and washers from hardware kit 5583-777C. The bolt head must face outward of the vehicle.



Installation Note:

Shims may or may not be needed; due to the variances in manufacturing tolerances between the OEM Factory FRAME/ plus coating and the Belltech sway bar brace. Not ALL shims may be used. Use as needed.

Place the supplied shims toward the rear of the vehicle, between the frame rail and the Belltech sway bar brace.

Part numbers:

- 155251-250-L-966 (0.125" center shim) Qty: 2
- 155251-250-M-966 (0.25" outer side shim) Qty: 2
- 155251-250-N-966 (0.125" inner side shim) Qty: 4

18. Use the 0.25" (6.35mm) outer side shim and or the 0.125" (3.175mm) inner side shim on either the outside or inside of the frame.



19. Slide in the shim so it follows the design of the brace.



REAR SWAY BAR BRACE INSTALLATION CONTINUED

20. The shims must be rested completely inside the brace and frame.



21. Use the 0.125" (3.175mm) center shims for the center of the brace. Align the shim design with that of the brace. Slide in the shim until it's completely rested inside the brace and frame.

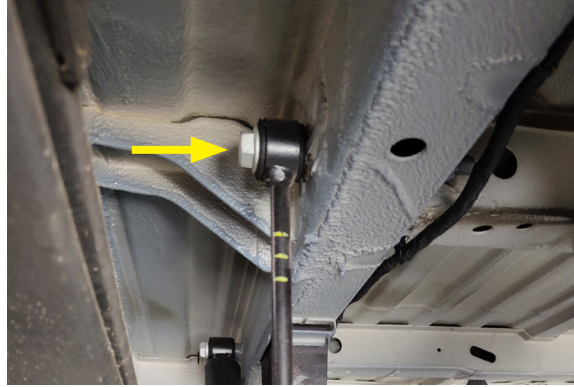


22. Torque the four Belltech sway bar brace bolts to 60 ft lbs.

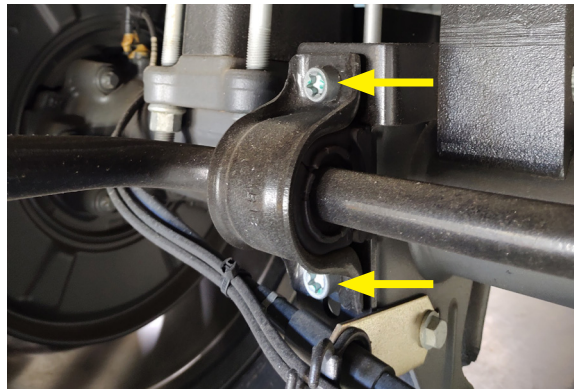


REAR SWAY BAR INSTALLATION

23. Remove the upper end link bolts from the frame.



24. Remove the bushing bracket bolts on both sides of the axle to detach the sway bar assembly from the vehicle. Keep the original hardware as it will be used on the new Belltech sway bar.

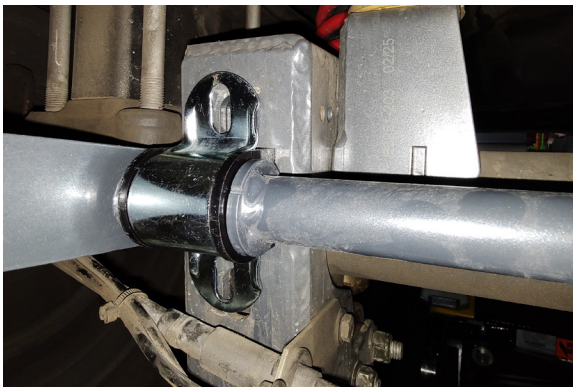


25. Thoroughly lubricate the inside of the supplied pivot bushings using the grease packet included hardware kit 5583-777B.

26. Place the bushings on both sides of the Belltech sway bar, next to the locating rings. Once located, rotate the bushings slightly to evenly spread the lubricant.



27. Place the supplied bushing brackets over the bushings and mount the Belltech sway bar on the axle mounts using the supplied M10 washers and the original bracket bolts. Torque to factory specifications.



REAR SWAY BAR INSTALLATION CONTINUED

28. Open the end link kit 5583-777A and ensure all the components are present.

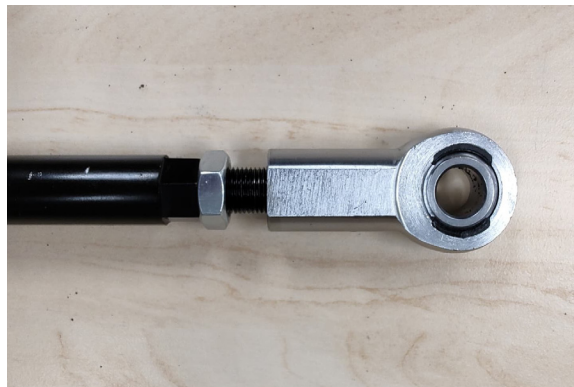


Installation Note:

Use the kit contents on page 12 for reference to the included parts.



29. Attach the Belltech Female Heim onto the end link extension.



30. Attach two bearing spacers to the Belltech female Heim.



31. Insert the M12x1.75-170mm bolt and M12 washer through the bearing spacers and female Heim.

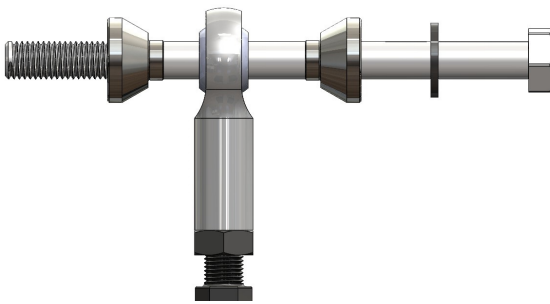


REAR SWAY BAR INSTALLATION CONTINUED

32. Fasten the male Heim joint link into the opposite end of the end link extension.



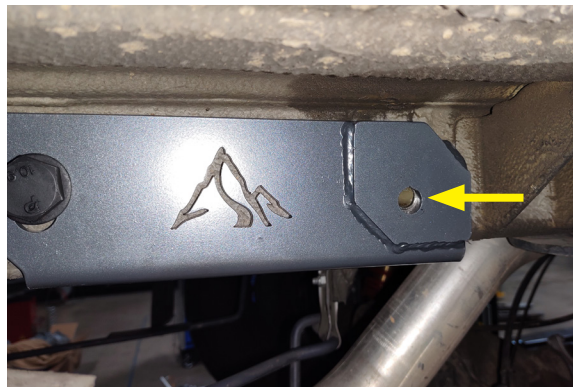
33. The end link is set up and will appear as shown in the examples below.



Technician warning:

The total end link length is dependent on the rear height setup of vehicle, ensure that when the suspension is fully extended, the end link and rear sway bar do not hold height, and adjust accordingly. However, the measurement from center of the Belltech female Heim to the Center of the Belltech male Heim joint link **must not** exceed 365mm.

34. On the Belltech sway bar brace locate the hole towards the front of the vehicle.



REAR SWAY BAR INSTALLATION CONTINUED

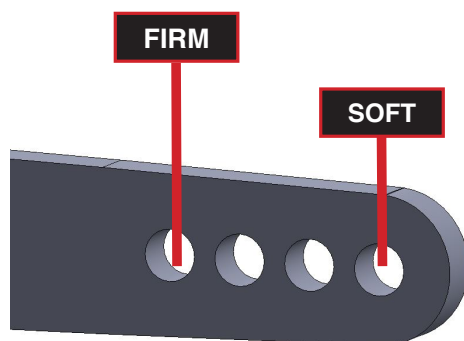
35. Insert the threaded end of the M12 bolt on the Belltech end link through the hole on the outside of the brace and frame rail.



36. Fasten the end links to the frame with the supplied M12x1.75 Nyloc nuts and M12 washers on the inner side of the Belltech sway bar brace. Torque the upper end link nuts to factory specifications.

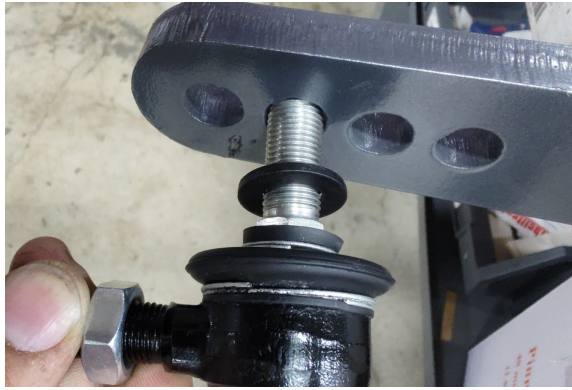


37. The Belltech sway bar has four performance settings for adjustability. Please select a sway bar setting for your vehicle. The setting closest to the end of the bar is soft and the setting closest to the bar is firm.

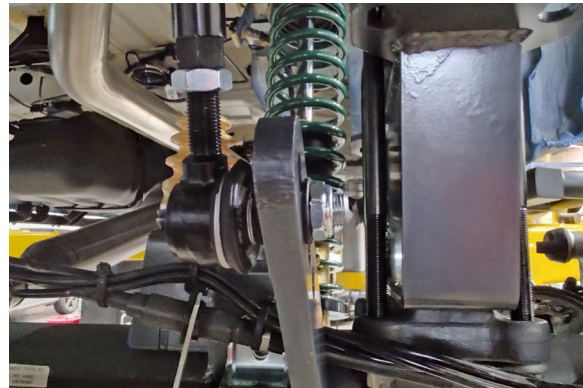


REAR SWAY BAR INSTALLATION CONTINUED

38. Attach the lower end links to the sway bar. Place M12 washers between the Heim joints and the sway bar ends.



39. Fasten the lower end links to the sway bar with M12 washers and the thin 1/2" Nyloc nuts. Torque the lower end links to 40 ft lbs.



40. Tighten the upper and lower jam nuts on the end links.



41. Attach the wire and line retaining clips on the driver side frame rail, in their original positions.

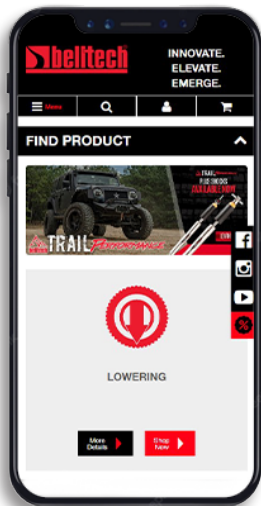
42. Place the spare tire and carrier back into their original positions.

FINALIZING THE INSTALLATION

43. Check that all components and fasteners have been properly installed and torqued.
44. Read and perform all tasks in the “Before Driving Your Vehicle” section of page 1 of your instructions.

THANK YOU FOR CHOOSING BELLTECH.

You are now a part of the Belltech 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 Belltech related merchandise for you and your vehicle on our website www.belltech.com



belltechsuspension



Belltech Suspension



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

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Email: info@belltech.com

KIT CONTENTS



5583		
Part number	Description	Qty
5583-300	Rear Anti-Sway Bar	1
155251-250-992	Rear Anti-Sway Bar Brace	1
5583-777	Hardware Kit	1

5583-777B Hardware Kit		
Part number	Description	Qty
114032-95	Pivot Bushing Bracket	2
113165	1" Pivot Bushing	2
110239	M10 Washer	4
55000-10	Grease Pack	1

5583-777 Hardware Kit		
Part number	Description	Qty
5583-777A	End Link Hardware	1
5583-777B	Sway Bar Brackets Hardware	1
5583-777C	Sway Bar Brace Hardware	1

5583-777C Hardware Kit		
Part number	Description	Qty
112135	M16 x 20 - 115 Hex Head Bolt	2
110219	M16 Washer	4
110242	M16 x 2.0 Nyloc Nut	2
110293	M18 x 2.5 - 130mm Hex Bolt	2
112133	M18 Washer	4
112139	M18 x 2.5 Nyloc Nut	2

5583-777A Hardware Kit		
Part number	Description	Qty
1140102-99	1/2-20 End Link Extension	2
57401-045-956	Bearing Spacer	4
112251	1/2-20 Male Heim Joint Link	2
112249	1/2-20 Female Heim Joint	2
110273	1/2-20 Thin Nyloc Nut	2
112629	M12 x 1.75-170mm Hex Head Flange Bolt	2
112165	M12 x 1.75 Nyloc Nut	2
110228	M12 Washer	8



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