

WMM C

AFE CONTROL



Product:
aFe Control Sway Bars

Part Numbers:
440-503001-N, 440-503001FN, 440-503001RN

Applications:
BMW F8x, M3/M4 2014-

Contents in the box:

Qty	Part #	Description
2	00P-0C1657-B	1.125"ID M4 Rear Bushing
2	00P-0C1658-B	1.25"ID M4 Front Bushing
2	00P-0P1064-B	M4 Rear Bushing Bracket
2	00P-0P1065-B	M4 Front Bushing Bracket
1	00P-0P2325-N	1.125" M4 Rear Sway Bar
1	00P-0P2326-N	1.25" M4 Front Sway Bar
1	00P-0C1007-A	(0.5 oz) Grease Packet

Difficulty of Installation: Beginner |-----x-----| **Advanced**

Reason: This installation requires the lowering of the rear subframe, and is best performed on a 2 post lift.

Expected Installation Time: 5 Hours

Recommended Tools:

- 16mm box end
- 13mm thin wall socket
- 13 mm deep socket
- 8, 10, 13, 15, 16, 17, 18 mm sockets
- 3/8" drive ratchet
- 3/8" drive extension
- Allen Wrench Set
- Complete Male & Female Metric Torx Socket Set
- 3/4 box end wrench
- 3/8" drive Torque Wrench
- 2 Post Lift and Screw Jack (preferred)
- Transmission Jack

This procedure is best performed on a vehicle lift by qualified mechanics, however it is possible to install these sway bars using a floor jack and jack however it is not recommended.

Front OEM Sway Bar Removal

1. Using proper jacking points, lift and support the front of the car on jack stands.
2. Using a 17mm socket remove the front wheels.
3. Using 8 mm & 16mm sockets remove the aluminum skid plate from the vehicle.
4. Unbolt the sway bar end links from OEM sway bar using a 16mm wrench and T-30 torx socket. If the vehicle is equipped with ride height sensors, disconnect the sensor from the left control arm.
5. Using a 8 mm socket, remove the splash guards located under the control arm on both the left and right sides.
6. Using a 13 mm thin wall socket remove the (4) nuts that attach the sway bar bushing brackets to the chassis, and remove. The sway bar can now be slid out through the side of the subframe.

Front aFe Control Sway Bar Installation

1. In the same orientation as the OEM bar was removed, install the new sway bar by sliding in through the side of the sub frame.
7. Apply a generous amount of supplied grease on the bushing and install on the bar. Install the CNC machined aluminum bushing bracket using the OEM nuts, and a 13mm thin wall socket. Torque nuts to 25 lb-ft
8. Using a 8mm socket, reinstall the splash guards located under the control arm on both the left and right sides.
9. Using a floor jack, or a screw jack, apply lift to the lower control arm, until the end link can be attached to sway bar.
10. Reattach the sway bar end links to the sway bar using a 16mm wrench and T-30 torx socket. Torque nuts to 25 lb-ft
11. If the vehicle is equipped with ride height sensors, reattach the sensor to the left control arm.
12. Using 8 mm & 16mm sockets reinstall the aluminum skid plate to the vehicle.
13. Reinstall the front wheels using a 17mm socket and torque to 90 lb-ft

Rear OEM Sway Bar Removal

1. Using proper jacking points, lift and support the rear of the car on jack stands or use a lift.
2. Using a 17mm socket remove the wheels.
3. Using a 13mm deep socket and a 15 mm standard socket, remove the rear section of the exhaust from the vehicle.
4. Remove the rear splash guards by removing plastic clips and T25 torx bolts.



- Using a T60 torx socket, a T40 torx socket, and a 16mm socket, remove the bolts that hold the rear chassis reinforcement to the body.



- Release the plastic clips from the subframe so the wire harness can have room to move freely. Remove the ground wire from the chassis by removing the 10 mm nut.



- Using a 18 mm socket, remove the rear brake calipers, and hang them out of the way. Be careful not to damage or kink any lines. Using a 16 mm wrench, remove the nuts, from the factory end links.



8. Using either a floor jack, or a trans jack, support the rear differential. Remove the rear shock mount bolts. Next remove the (4) 15mm sub frame bolts.



9. The next step will require the drop of the rear sub frame, it is important to make sure you have slack in both the ABS, and ride height sensor wires as the sub frame comes down. Slowly lower the sub frame just enough to get a E12 socket on the OEM bushing brackets. (approximately 2") Remove the (4) bolts attaching the sway bar bushings.



10. To remove the OEM Sway bar from the vehicle, you must first slide the passenger side towards the rear of the vehicle. This will allow you to rotate the left side sway bar arm above the control arm. Once above the arm you can rotate the bar until it slides out through the drivers side of the vehicle.



Rear aFe Control Sway Bar Installation

1. In the same orientation as the OEM bar was removed, install the new sway bar by sliding in through the drivers side of the subframe.



2. It is important to make sure the sway bar is positioned under the upper control arm on the passenger side when sliding bar into place. The correct orientation would put the bar under both the drivers, and passenger upper control arms.



3. Apply a generous amount of supplied grease on the bushing and install on the bar by separating the slit in the bushing. Install the CNC machined aluminum bushing bracket using the OEM E12 Torx bolts. Torque bolts to 25 lb-ft



4. Raise the sub-frame back into position. The front mounts have positioning pins, for alignment. Be careful not to pinch any lines, or wires. Torque the sub frame bolts to 65 lb-ft. Reattach the calipers, and torque to factory specs.



5. Reinstall the OEM reinforcement bar, and reinstall the splash guards.
6. Reattach the plastic clips and properly secure the wire harness. Reinstall the ground wire to the chassis by reinstalling the 10 mm nut.
7. Reinstall the OEM endlinks to the aFe sway bar. It might help to jack up the lower control arm to raise the end link. Connect the end link and torque to 25 lb-ft
8. Reinstall the exhaust system, and wheels. Be sure to properly torque wheels.
9. Re-check all your work, and lower vehicle from vehicle lift, and take for test drive.
10. **When all work is complete take the vehicle to alignment shop for a proper wheel alignment.**



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