



## 22mm ADJUSTABLE REAR ANTI-SWAY BAR – NM.258856

[R55] MINI Cooper Clubman 2008-up [Including Cooper S]

[R56] MINI Cooper Hardtop 2007-up [Including Cooper S]

[R57] MINI Cooper Convertible 2009-up [Including Cooper S]

### PARTS INCLUDED:

[1] 22mm Adjustable Rear Sway Bar    [2] Billet Aluminum Sway Bar Clamps    [2] Graphite Impregnated Urethane Bushings    [4] M8 x 25mm Socket Cap Bolts  
[1] Synthetic Grease

### TOOLS & SUPPLIES REQUIRED:

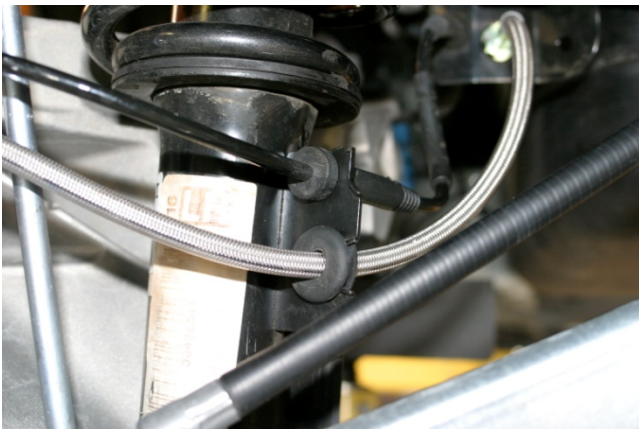
[1] Vehicle Jack    [2] Jack Stands    [1] Ratchet Handle    [1] 18" Extension  
[1] 17mm Wheel Lug Wrench    [1] 13mm Socket    [1] 16mm Wrench    [1] 18mm Wrench or Socket  
[1] 5mm Hex Key Wrench    [1] 6mm Hex Key Wrench

1. Park vehicle on a flat, level surface capable of supporting the vehicle's weight on jack and jack stands.



2. Loosen rear wheel lug bolts.

3. Using the manufacturer's recommended lifting points, raise rear of vehicle and support with jack stands. Remove rear wheels. **WARNING: NEVER WORK UNDER A VEHICLE SUPPORTED ONLY WITH A JACK – SERIOUS INJURY OR DEATH CAN OCCUR!**



4. Detach brake line and ABS wire from rear shock absorbers.



5. Unbolt and remove lower shock absorber bolt using 18mm wrench.



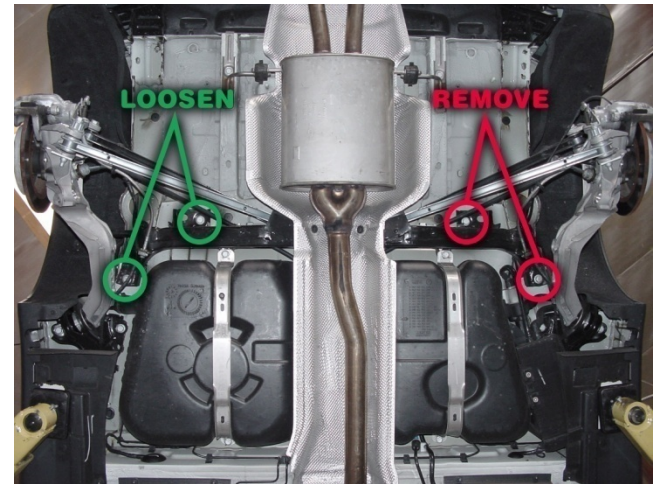
6. Unbolt and remove [2] upper shock mount bolts using 13mm socket and 18" extension. Remove shock and repeat for other side.



7. Disconnect end-link from original anti-roll bar by securing stud with 6mm hex key wrench and loosening nut with 16mm wrench. Repeat for other side.



8. Remove the bushing clamp mounting bolts [2] using a 13mm socket. Remove clamp and bushing. Repeat for other side.



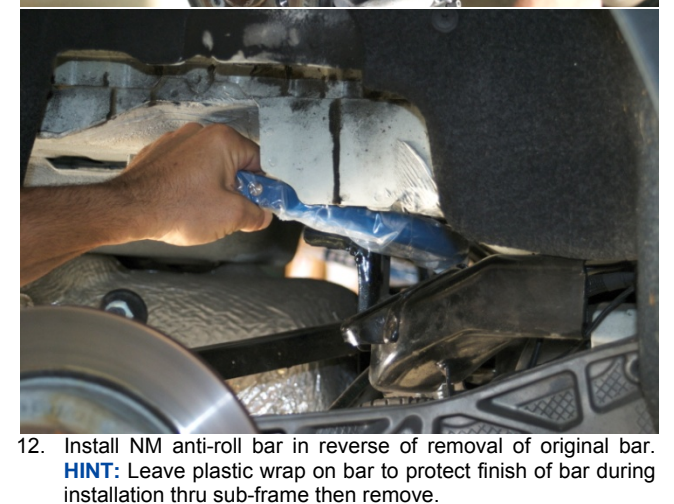
9. Unbolt and remove [2] right-side vehicle sub-frame bolts. Loosen the [2] left-side sub-frame bolts 1/2" or 13mm. **Do NOT remove left-side sub-frame bolts.**



10. From right-side of vehicle, push out original anti-sway toward left-side of vehicle between uni-body and sub-frame.



11. Now from left-side of vehicle completely remove original bar.



12. Install NM anti-roll bar in reverse of removal of original bar. **HINT:** Leave plastic wrap on bar to protect finish of bar during installation thru sub-frame then remove.



13. Apply supplied grease to inside of supplied bushings and install on the inside of stop washer on NM anti-roll bar.

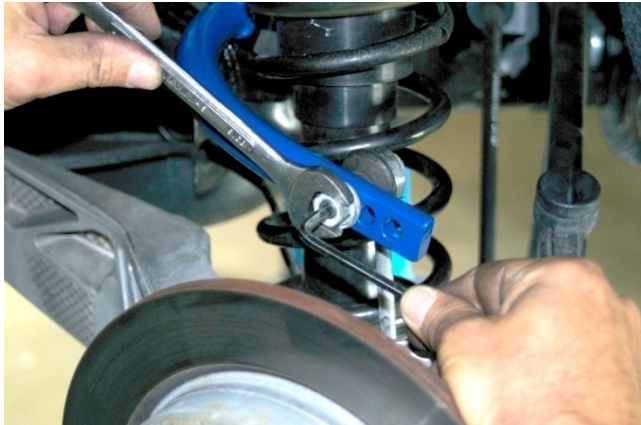


14. Install billet aluminum clamps over bushings and bolt to sub-frame using supplied M8 x 25mm bolts. Torque to 33 Nm (25 ft-lbs).



15. Reinstall sub-frame mounting bolts on right-side and torque all [4] bolts to 100 Nm (74 ft-lbs).

16. Install rear shocks in reverse of disassembly. Torque top shock mount bolts to 56 Nm (41 ft-lbs) and torque lower shock mount bolt to 165 Nm (121 ft-lbs). Reattach brake line and ABS wire on each side.



17. Attach end links to NM anti-roll bar using original nuts. Torque to 30 Nm (22 ft-lbs). See adjustment chart for hole mounting information.

18. Mount rear wheels. For factory wheels ONLY, torque lug bolts to 140Nm (103 ft-lbs). For aftermarket wheels, contact wheel manufacturer for proper torque specifications.

19. Double-check complete installation and test drive carefully.

## Sway Bar Adjustment Chart

	LEFT-SIDE END-LINK POSITION			RIGHT-SIDE END-LINK POSITION		
	Rear Hole	Middle Hole	Front Hole	Rear Hole	Middle Hole	Front Hole
Setting 1 [Softest]	X			X		
Setting 2	X				X	
Setting 3		X			X	
Setting 4 [Stiffest]			X			X

Recommended adjustment procedure:

Start with softest setting and drive car on familiar road. Adjust bar to next stiffer setting if further reduction of understeer is needed. Continue to adjust until proper balance suited to your motoring style is achieved.